Cortland County Soil and Water Conservation District
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SWCD...established to promote the conservation and wise use of our county's natural resources

September 28, 2022

Stephanie Fitzgerald
NYSDEC - Division of Environmental Remediation
615 Erie Blvd. West
Syracuse, NY 13204-2400

Dear Ms. Fitzgerald:

Enclosed is the 2022 Quarter 2 Environmental Monitoring Report for Cortland County's Towslee Landfill, also known as the Old Cortland County Landfill. Included are PFAS and 1,4-dioxane results for 2022.

Because PFAS and 1,4-dioxane have not been detected in either of the upgradient wells CD-1 or CD-1RA in 2019 or 2022 and 1,4-dioxane has not been detected in wells MW-6A or MW-6B in either 2019 or 2022, continued sampling of these wells for these emerging contaminants does not appear to be necessary. Please confirm that sampling of these wells for these parameters can be discontinued in future years given the cost and lack of apparent need for this sampling.

Please contact our office at (607) 756-5991 if you have any questions.

Sincerely,

Kathleen McGrath
Water Quality Specialist

cc: Charles Sudbrink, Cortland Co. Highway Dept.
Gary Priscott, R7 NYSDEC
Amanda Barber, SWCD/file

Environmental Monitoring Report
Towslee Landfill, Cortland County, NY

Quarter 2, 2022

Prepared for

Cortland County Highway Department

By

Cortland County Soil and Water Conservation District

September 28, 2022

SWCD

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Section 1 Introduction

Towslee Landfill is approximately 36 acres in size, and is part of a larger solid waste disposal site of 540 acres owned by Cortland County in the Towns of Cortlandville and Solon. The Towslee Landfill has previously been called the Old County Landfill and the Town Line Landfill.

DEC requires environmental monitoring at the landfill. The monitoring follows the Post-Closure Monitoring and Site Maintenance Plan prepared by Barton & Loguidice, D.P.C (B&L) in October, 2002 and revised in June, 2006. Towslee Landfill is required to be monitored during Quarters 2-4. Of these three quarters, one quarter is monitored for Baseline parameters and two quarters are monitored for Routine parameters. The Baseline quarter rotates among the three quarters.

This report summarizes 2022 Quarter 2 (Baseline) monitoring activities at the Towslee Landfill.

Section 2 Site History

Placement of waste at Towslee began in the 1940s by a private disposal company. In the 1960s, the site was leased to the City of Cortland for waste disposal. In 1972, Cortland County purchased the site and began landfill operations at Towslee Landfill. Towslee Landfill was open for disposal of municipal solid waste until 1987 and for construction and demolition debris until 1992.

A Remedial Investigation/Feasibility Study (RI/FS) was conducted for Cortland County by Barton and Loguidice (B&L) in response to NYSDEC Order of Consent #B7-0486-12-95, effective May 31, 1996. The Towslee Landfill was classified by NYSDEC as a Class 2 Inactive Hazardous Waste Site. The Remedial Investigation was completed in March, 1998 and the Feasibility Study was completed in July, 1998.

DEC issued a Record of Decision (ROD) in March, 1999. Remedial activities at the landfill, which included landfill capping, were substantially completed in December 2001 and the Towslee Landfill was reclassified as a Class 4 Inactive Hazardous Waste Site, assigned site number 7-12-001.

The B&L Remedial Investigation concluded in 1997 that there was mild landfill leachate contamination of groundwater in the vicinity of Wells MW-2A/B and MW-7A. In addition, low-level leachate contamination was detected in the vicinity of Well MW-1A. Groundwater contamination occurred primarily in the overburden and extended downgradient of the site about 450 feet.

Section 3 Methods

3.1 Schedule

Quarter	Analysis	Date Sampled
1	-- Sampling not required --	
2	Baseline*	June 6, 8, 2022
3	Routine	TBD
4	Routine	TBD

* includes PFAS and 1,4-dioxane at some wells

3.2 Monitoring Locations

Groundwater: Thirteen wells are monitored at Towslee Landfill (Figure 1) including one each bedrock and overburden upgradient wells, and seven bedrock wells and four overburden downgradient wells:

	Bedrock	Overburden
Upgradient	CD-1RA	CD-1
Downgradient	MW-1B	MW-1A
	MW-2B	MW-2A
	MW-3A	MW-6A
	MW-3B	MW-7A
	MW-4A	
	MW-5A	
	MW-6B	

Combustible Gas: Testing for the presence of combustible gas (methane) is conducted associated with landfill monitoring. All of the wells and the scale house basement (ambient air) are monitored during Quarters 2-4.

3.3 Sampling and Analysis:

Water quality analyses were conducted in accordance with 1998 Part 360 regulations. Cortland County Soil and Water Conservation District staff conducted methane monitoring and collected water samples and field parameter data. Eurofins TestAmerica Laboratories, Inc. (TestAmerica) performed all laboratory analyses for this quarter:

Eurofins TestAmerica Laboratories, Buffalo (NYELAP # 10026)
10 Hazelwood Drive
Amherst, NY 14228-2223

In this quarter, Routine parameters were sampled for at all locations. When turbidity exceeded 50 NTU, a sample was collected for dissolved metals analysis in addition to total metals. In addition, combustible gas was sampled at each well.

During this quarter, in addition to Routine parameters, PFAS and 1,4-dioxane were sampled for at 8 wells: CD-1RA, CD-1, MW-1A, MW-1B, MW-2A, MW-2B, MW-6A and MW-6B.

The UDS Level 2 and Category B laboratory analytical reports, gas data and field data sheets for this quarter can be found in Appendix A. The full Towslee data record is available from the Cortland County SWCD upon request.

Groundwater data are compared to NYS water quality/drinking water standards to assess current conditions. Table 1 (field and conventionals), Table 2 (metals), Table 3 (organics) and Table 4 (emerging contaminants) summarize results for groundwater monitoring wells. Contraventions of NYS standards are highlighted.

Section 4 Groundwater Monitoring Results

4.1 Contraventions of Groundwater Quality Standards

Conventional and Field Parameters

Turbidity - Turbidity exceeded the NYS standard of 5 NTU at both upgradient wells CD-1 (>100 NTU) and CD-1RA (51.3 NTU) and 9 of the 11 downgradient wells (exceeded range 5.8 to >100 NTU).

No other conventional or field parameters exceeded water quality standards at the upgradient wells.

Color - The color standard of 15 Color Units was exceeded at MW-7A (25 CU).

Ammonia - The ammonia standard of 2 mg/L was exceeded at MW-2A (7.8 mg/L), consistent with past findings at this well.

Total Dissolved Solids (TDS) - The TDS standard of 500 mg/L was exceeded at MW-2B (722 mg/L).

No other conventional or field parameters exceeded water quality standards at downgradient wells.

Metals

Iron - The NYS standard for total iron is 0.3 mg/L, and is an aesthetic standard. This standard was exceeded at both upgradient wells CD-1 (11.2 mg/L) and CD-1RA (7.2 mg/L) and 7 of the 11 downgradient wells (exceeded range 0.37 – 80.3 mg/L). Iron frequently exceeds the standard

at the Towslee Landfill. The elevated iron levels are believed to be caused at least in part by particulates in the unfiltered samples.

Manganese - The NYS standard for total manganese is 0.3 mg/L and is an aesthetic standard. The manganese standard was exceeded for total manganese at both upgradient wells CD-1 (5.5 mg/L) and CD-1RA (0.56 mg/L) and 7 of the 11 downgradient wells (exceeded range 0.31 – 12.2 mg/L) including exceedances of dissolved manganese at 3 downgradient wells. The manganese standard has frequently been exceeded in past monitoring, which may be caused in part by particulates in unfiltered samples.

No other metals contravened water quality standards at upgradient wells.

Sodium - The NYS sodium guidelines for people on severely and moderately restricted sodium diets are 20 mg/L and 270 mg/L, respectively. The more restrictive diet guideline was exceeded for total sodium at 4 if the 11 downgradient wells (exceeded range 28.7 – 37 mg/L), including exceedances of dissolved sodium at 2 downgradient wells. The less restrictive diet guideline was not exceeded at any wells during this quarter.

Other Metals – Exceedances of several other metals occurred at MW-6A. These included arsenic (0.062 mg/L; arsenic standard 0.025 mg/L), barium (1.3 mg/L; barium standard 1 mg/L), chromium (0.068 mg/L; chromium standard 0.05 mg/L) and lead (0.03 mg/L; lead standard 0.015 mg/L). Detections of these metals including exceedances occur occasionally at this well.

No other metals contravened water quality standards at downgradient wells.

Volatile Organic Compounds (VOCs)

cis-1,2-dichloroethene - The NYS standard for cis-1,2-dichloroethene of 5 μg/L was exceeded at one downgradient well, MW-2B (40 μg/L). This is not unusual at this well.

Vinyl chloride - The NYS standard for vinyl chloride of 2 μg/L was exceeded at one downgradient well, MW-2B (19 μg/L). This is not unusual at this well.

No other volatile organic compounds contravened water quality standards at any wells.

Emerging Contaminants

PFAS – PFAS exceedances of the NYS Water Quality Standard (WQS) of 10 ng/L occurred at two wells, MW-2A and MW-2B. Specific PFAS parameters exceeding the WQS included perfluorohexanoic acid (PFHxA; MW-2B, 15 ng/L), perfluorooctanesulfonic acid (PFOS; MW2A, 18 ng/L; MW2B, 13 ng/L), and perfluorooctanoic acid (PFOA; MW2A, 12 ng/L; MW2B, 22 ng/L). These results are consistent with 2019 sampling.

1,4-dioxane – 1,4-dioxane exceeded the WQS of 1 ug/L at MW-2A (3.6 ug/L) and MW-2B (15 ug/L). These results are consistent with 2019 sampling.

Section 5 Landfill Gas Testing

Landfill gas measurements were taken at all monitoring wells. Methane was either not detected or was detected at 00.1% (DL=00.1%) at all of the wells and other ambient locations off the landfill property. Because the 00.1% values are at the detection limit and within the error range of the equipment and also occurred offsite before well sampling, they likely do not represent actual methane detections.

Section 6 Quality Control

Independent data validation for Baseline monitoring of Quarter 2 was conducted by Dataval, Inc. With respect to Quarter 2 data, Dataval concludes that "data from this group of samples is felt to be technically correct and completely usable in its present form." The data validation report is included in Appendix B.

The analytical laboratory, Eurofins TestAmerica, conducted standard internal QA/QC on the samples. Of 1594 data records, 31 records (1.94%) were flagged because they did not meet laboratory QA/QC requirements.

The analytical data appear to be an adequate characterization of Towslee Landfill groundwater quality for this quarter.

Table 1. Analytical Results and Contraventions of NYS Water Quality Standards for Field and Conventional Parameters, Towslee Landfill, Quarter 2, 2022.

		NYS Water Quality		Upgradient		Downgradient										
				OB	BR	OB	BR	OB	BR	BR	BR	BR	BR	OB	BR	OB
Parameter	Units	Standard		CD-1	CD-1RA	MW-1A	MW-1B	MW-2A	MW-2B	MW-3A	MW-3B	MW-4A	MW-5A	MW-6A	MW-6B	MW-7A
Temperature	°C	--		10.5	11.5	10.7	12.1	13	11.4	10	9.9	9.1	9.9	10.1	10.3	10.2
Eh/ORP	mV	--		--	--	--	--	--	--	--	--	--	--	--	--	--
pH	--	6.5 - 8.5	a	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--		201.4	223.4	274.1	193.4	558	923	250.8	257.7	493.6	214.4	445	404.7	528
Color	Units	15	a, b	15	10	10J	5	10J	10J	15J	10J	10J	10J	10J	10J	**25J**
Turbidity	NTU	5	a	**OR**	**51.3**	**10.43**	**10.6**	**85.7**	**6.46**	**22**	4.32	4.08	**6.77**	**OR**	**5.8**	**67.9**
Alkalinity as $CaCO_3$	mg/L	--		22.7	137	149	110	378	650	191	194	236	171	200	160	445
Hardness as $CaCO_3$	mg/L	--		297	175	158	120	260	563	161	162	359	138	272	171	309
Total Dissolved Solids	mg/L	500	a	173	166	227	147	329	**722**	195	219	405	162	426	285	423
Chloride	mg/L	250	a, b	<1	2	35.1	14.2	19.3	75.3J	3.9	21	10.6	4.5	78.8	77.2	19.4
Sulfate	mg/L	250	a, b	15.6	17.5	18.3	12.9	<5	<5	<5	11.8	<5	17.7	<5J	15	<5
Bromide	mg/L	2	a	<0.2	<0.2	<0.2	<0.2	0.95	1.5	<0.2	0.31	<0.4	<0.2	<0.2	<0.2	<0.4
NO_3	mg/L	10	a, b	<0.05	<0.05	<0.05	<0.05	0.25	<0.05	0.057	<0.05	<0.05	<0.05	0.075	0.056	<0.05
NH_3	mg/L	2	a	<0.02	<0.02	0.021	<0.02	**7.8**	0.53	0.065	<0.02	<0.02	<0.02	0.19	<0.02	0.1
TKN	mg/L	--		0.9	0.25	<0.2	<0.2J	9.4	1.4	0.78	<0.2	0.37	0.45	2.7	<0.2	0.93
COD	mg/L	--		<10	<10	<10	<10	18.9	19.9	<10	<10	<10	<10	27.4	<10	<10
BOD	mg/L	--		<2J	<2J	<2	<2J	<2	<2	<2	2.3J	<2	<2	2J	J	<2
TOC	mg/L	--		<1	<1	<1	<1	6.5	4	1.5	3	1.1	<1	5.7	7.1	8
Total Phenolics	mg/L	0.001	a	<0.01J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide	mg/L	0.2	a, b	<0.01	<0.01	<0.01	0.011J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

a - Part 703 Water Quality Standard (Class GA waters)

b - Part 5 Drinking Water MCL

X.XX indicates contravention of standard.

J - value is estimated because sample did not meet laboratory QAQC protocols

OB - overburden well

BR - bedrock well

Table 2. Analytical Results and Contraventions of NYS Water Quality Standards for Metals (mg/L), Towslee Landfill, Quarter 2, 2022.

	NYS Water Quality Standard		Total Metals													Dissolved Metals				
			Upgradient		Downgradient											Upgradient		Downgradient		
			OB	BR	OB	BR	OB	BR	BR	BR	BR	BR	OB	BR	OB	OB	BR	OB	OB	OB
Parameter			CD-1	CD-1RA	MW-1A	MW-1B	MW-2A	MW-2B	MW-3A	MW-3B	MW-4A	MW-5A	MW-6A	MW-6B	MW-7A	CD-1	CD-1RA	MW-2A	MW-6A	MW-7A
Aluminum	--		9.6	5.8	0.39	1.5	5.4	0.31	0.38	<0.2	<0.2	0.41	45.3	0.27	3.9	<0.2	<0.2	<0.2	0.2	<0.2
Antimony	0.003	a	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Arsenic	0.025	a	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	**0.062**	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Barium	1	a	0.45	0.22	0.068	0.24	0.5	1	0.37	0.19	0.88	0.55	**1.3**	0.3	0.24	0.066J	0.15J	0.47	0.26	0.21
Beryllium	0.004	b	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Boron	1	a	<0.02	<0.02	0.02	<0.02	0.21	0.17	<0.02	0.03	0.054	<0.02	0.032	<0.02	0.16	<0.02	<0.02	0.23	<0.02	0.17
Cadmium	0.005	a, b	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium	--		92.8	49.4	45.8	34.4	75.8	166	48	43.4	106	37.6	72.1	49.5	92.5	40.6	41.5	96.8	72.1	99.1
Chromium	0.05	a	0.015	0.0074	<0.004	<0.004	0.008	<0.004	<0.004	<0.004	<0.004	<0.004	**0.068**	<0.004	0.0047	<0.004	<0.004	<0.004	<0.004	<0.004
Chromium (VI)	0.05	a	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01J	<0.01J	<0.01J	<0.01J	<0.01	<0.01	<0.01					
Cobalt	--		0.0058	<0.004	<0.004	<0.004	0.005	<0.004	<0.004	<0.004	<0.004	<0.004	0.074	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Copper	0.2	a	0.043	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.082	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Iron	0.3	a, b	**11.2**	**7.2**	**0.37**	**1.2**	**9.7**	**0.51**	**0.39**	0.065	0.072	0.27	**80.3**	0.24	**4.9**	<0.05	<0.05	<0.05	0.18	<0.05
Lead	0.015	b	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.03**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium	--		15.8	12.6	10.6	8.2	17.1	36.1	10	13	23.3	10.8	22.4	11.5	18.8	9.5	9.9	19.7	10.5	19
Manganese	0.3	a, b	**5.5**	**0.56**	0.038	**0.61**	**10.6**	**4.6**	**0.31**	0.028	**0.48**	0.083	**6.9**	0.035	**4.7**	<0.003	0.14	**12.2**	**1**	**4.4**
Mercury	7E-04	a	<0.0004	<0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002					
Nickel	0.1	a	0.015	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.092	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Potassium	--		3.2	2.3	0.96	0.81	9.8	1.9	1.3	0.96	1.2	0.87	9.4	1	2.8	1.6	0.7	9.9	2.4	2
Sodium	20	a, b	4.3	5.2	11.1	8.5	12.7	**37**	5.6	7.1	13	8.1	**28.7**	**35.5**	**29.5**	4	4.6	15.3	**29.9**	**32**
Selenium	0.01	a	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Silver	0.05	a	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Thallium	0.002	b	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Vanadium	--		0.012	0.0084	<0.005	<0.005	0.0094	<0.005	<0.005	<0.005	<0.005	<0.005	0.06	<0.005	0.0055	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	5	b	0.054	0.015	<0.01	0.011	0.017	0.012	<0.01	<0.01	<0.01	<0.01	0.15	0.012	0.018	<0.01	<0.01	<0.01	<0.01	0.01

a - Part 703 Water Quality Standard (Class GA waters)

b - Part 5 Drinking Water MCL

X.XX indicates contravention of standard.

J - value is estimated because sample did not meet laboratory QAQC protocols

OB = overburden well

BR = Bedrock well

Table 3. Analytical Results and Contraventions of NYS Water Quality Standards for Organics, Towslee Landfill, Quarter 2, 2022.

Parameter*	NYS Water Quality Standard		Total Organics (µg/L)												
			Upgradient		Downgradient										
			OB	BR	OB	BR	OB	BR	BR	BR	BR	BR	OB	BR	OB
			CD-1	CD-1RA	MW-1A	MW-1B	MW-2A	MW-2B	MW-3A	MW-3B	MW-4A	MW-5A	MW-6A	MW-6B	MW-7A
Vinyl chloride	2	b	<1	<1	<1	<1	<1	**19**	<1	<1	<1	<1	<1	<1	<1
Chloroethane	5	b	<1	<1	<1	<1	<1	3.9	<1	<1	<1	<1	<1	<1	<1
Acetone	50	b	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methylene chloride	5	b	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	5	b	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	5	b	<1	<1	<1	<1	<1	**40**	<1	<1	<1	<1	<1	<1	1.2
1,1-Dichloroethane	5	b	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.1
Benzene	1	a	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	5	b	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	5	b	<1	<1	<1	<1	1.7	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	5	b	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, Total	5	b	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,4-Dichlorobenzene	5	b	<1	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<1

* List contains only compounds detected in current or past monitoring events

a - Part 703 Water Quality Standard (Class GA waters)

b - Part 5 Drinking Water MCL

X.XX indicates contravention of standard.

J - value is estimated because sample did not meet laboratory QAQC protocols

OB = overburden well

BR = Bedrock well

Table 4. Analytical Results and Contraventions of NYS Water Quality Standards for the Emerging Contaminants PFAS and 1,4-dioxane, Towslee Landfill, Quarter 2, 2022 and as Compared to Previous Sampling in Quarter 2, 2019.

		NYS Water Quality	UPGRADIENT				DOWNGRADIENT											
			CD-1		CD-1RA		MW-1A		MW-1B		MW-2A		MW-2B		MW-6A		MW-6B	
PARAMETER Year	Units	Standard	2019	2022	2019	2022	2019	2022	2019	2022	2019	2022	2019	2022	2019	2022	2019	2022
6:2 FTS	ng/L	10	<18	<4.4	<18	<4.7	<16	<4.6	<17	<4.5	<88	<4.3	<85	<4.2	<85	<4.6	<18	<4.4
8:2 FTS	ng/L	10	<18	<1.8	<18	<1.9	<16	<1.8	<17	<1.8	<88	<1.7	<85	<1.7	<85	<1.8	<18	<1.8
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ng/L	10	<18	<4.4	<18	<4.7	<16	<4.6	<17	<4.5	<88	4.7	<85	5.3	<85	<4.6	<18	<4.4
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ng/L	10	<18	<4.4	<18	<4.7	<16	<4.6	<17	<4.5	<88	<4.3	<85	<4.2	<85	<4.6	<18	<4.4
Perfluorobutanesulfonic acid (PFBS)	ng/L	10	<1.8	<1.8	<1.8	<1.9	<1.6	<1.8	<1.7	<1.8	<8.8	<1.7	<8.5	2.4	<8.5	<1.8	<1.8	<1.8
Perfluorobutanoic acid (PFBA)	ng/L	10	<1.8	<4.4	<1.8	<4.7	<1.6	<4.6	<1.7	<4.5	<8.8	5.3	**13**	10	<8.5	<4.6	<1.8	<4.4
Perfluorodecanesulfonic acid (PFDS)	ng/L	10	<1.8	<1.8	<1.8	<1.9	<1.6	<1.8	<1.7	<1.8	<8.8	<1.7	<8.5	<1.7	<8.5	<1.8	<1.8	<1.8
Perfluorodecanoic acid (PFDA)	ng/L	10	<1.8	<1.8	<1.8	<1.9	<1.6	<1.8	<1.7	<1.8	<8.8	<1.7	<8.5	<1.7	<8.5	<1.8	<1.8	<1.8
Perfluorododecanoic acid (PFDoA)	ng/L	10	<1.8	<1.8	<1.8	<1.9	<1.6	<1.8	<1.7	<1.8	<8.8	<1.7	<8.5	<1.7	<8.5	<1.8	<1.8	<1.8
Perfluoroheptanesulfonic Acid (PFHpS)	ng/L	10	<1.8	<1.8	<1.8	<1.9	<1.6	<1.8	<1.7	<1.8	<8.8	<1.7	<8.5	<1.7	<8.5	<1.8	<1.8	<1.8
Perfluoroheptanoic acid (PFHpA)	ng/L	10	<1.8	<1.8	<1.8	<1.9	<1.6	<1.8	<1.7	<1.8	<8.8	3.3	9.4	8.1	<8.5	<1.8	<1.8	<1.8
Perfluorohexanesulfonic acid (PFHxS)	ng/L	10	<1.8	<1.8	<1.8	<1.9	<1.6	<1.8	<1.7	<1.8	<8.8	2.4	<8.5	3.6	<8.5	<1.8	<1.8	<1.8
Perfluorohexanoic acid (PFHxA)	ng/L	10	<1.8	<1.8	<1.8	<1.9	<1.6	<1.8	<1.7	<1.8	<8.8	6.6	**18**	**15**	<8.5	<1.8	<1.8	<1.8
Perfluorononanoic acid (PFNA)	ng/L	10	<1.8	<1.8	<1.8	<1.9	<1.6	<1.8	<1.7	<1.8	<8.8	<1.7	<8.5	<1.7	<8.5	<1.8	<1.8	<1.8
Perfluorooctanesulfonamide (FOSA)	ng/L	10	<9.1	<1.8	<9	<1.9	<8.1	<1.8	<8.6	<1.8	<44	<1.7	<42	<1.7	<43	<1.8	<9	<1.8
Perfluorooctanesulfonic acid (PFOS)	ng/L	10	<1.8	<1.8	<1.8	<1.9	<1.6	<1.8	<1.7	<1.8	**31**	**18**	**13**	**13**	<8.5	3.1	4.1	<1.8
Perfluorooctanoic acid (PFOA)	ng/L	10	<1.8	<1.8	<1.8	<1.9	<1.6	2.5	<1.7	<1.8	**16**	**12**	**23**	**22**	<8.5	2.6	<1.8	<1.8
Perfluoropentanoic acid (PFPeA)	ng/L	10	<1.8	<1.8	<1.8	<1.9	<1.6	<1.8	<1.7	<1.8	<8.8	2.2	<8.5	8.6	<8.5	<1.8	<1.8	<1.8
Perfluorotetradecanoic acid (PFTeA)	ng/L	10	<1.8	<1.8	<1.8	<1.9	<1.6	<1.8	<1.7	<1.8	<8.8	<1.7	<8.5	<1.7	<8.5	<1.8	<1.8	<1.8
Perfluorotridecanoic acid (PFTriA)	ng/L	10	<1.8	<1.8	<1.8	<1.9	<1.6	<1.8	<1.7	<1.8	<8.8	<1.7	<8.5	<1.7	<8.5	<1.8	<1.8	<1.8
Perfluoroundecanoic acid (PFUnA)	ng/L	10	<1.8	<1.8	<1.8	<1.9	<1.6	<1.8	<1.7	<1.8	<8.8	<1.7	<8.5	<1.7	<8.5	<1.8	<1.8	<1.8
1,4-dioxane	µg/L	1	<0.2	<0.2	<0.2	<0.2	<0.2	0.24	0.31	<0.2	**2.7**	**3.6**	**16**	**15**	<0.2	<0.2	<0.2	<0.2

X detected < WQS

X detected > WQS

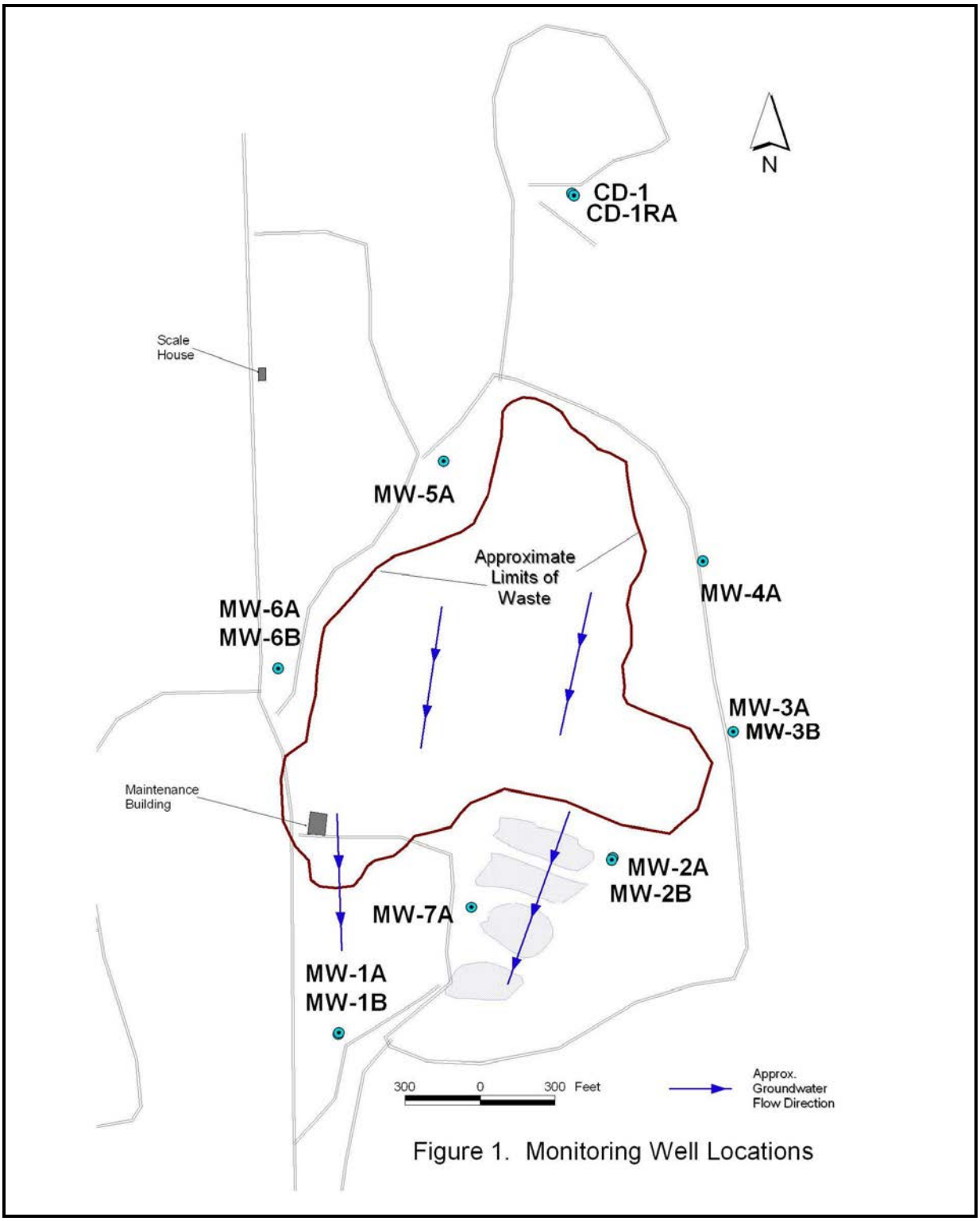

Figure 1. Monitoring Well Locations

ANALYTICAL REPORT

Job Number: 480-198720-1

SDG Number: 198720

Job Description: Towslee LF Baseline Q2 2022

Sampling Event: Towslee Landfill - Baseline

For:
Cortland Cty Soil & Water Cons District
100 Grange Place
Rm 202
Cortland, NY 13045

Attention: Ms. Kathleen McGrath

Approved for release.
John Beninati
Project Manager
8/3/2022 2:57 PM

John Beninati, Project Manager
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(716)504-9874
John.Beninati@et.eurofinsus.com
08/03/2022
Revision: 1

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Job Narrative
480-198720-1

Comments
No additional comments.

Receipt
The samples were received on 6/7/2022 10:00 AM and 6/9/2022 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 11 coolers at receipt time were 2.3º C, 2.4º C, 2.4º C, 2.5º C, 2.6º C, 2.8º C, 2.8º C, 3.0º C, 3.3º C, 3.3º C and 4.0º C.

GC/MS VOA
Method 8260C: Due to the coelution of Ethyl Acetate with 2-Butanone in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with batch 629695. The following samples were affected : CD-1 (480-198720-1), CD-1RA (480-198720-2), MW-1B (480-198720-3), DUP CD-1RA (480-198720-4) and TRIP BLANK 1 (480-198720-5).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-630178 recovered outside acceptance criteria, low biased, for Carbon disulfide. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported. The associated samples are impacted: MW-1A (480-198813-1), MW-2A (480-198813-2), MW-2B (480-198813-3), MW-3A (480-198813-4), MW-3B (480-198813-5), MW-4A (480-198813-6), MW-5A (480-198813-7), MW-6A (480-198813-8), MW-6B (480-198813-9), MW-7A (480-198813-10) and TRIP BLANK 1 (480-198813-11).

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

GC/MS Semi VOA
Method 8270D SIM ID: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-2B (480-198818-3). Elevated reporting limits (RLs) are provided.

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

HPLC/IC
Method 300.0: The following samples were diluted due to the abundance of non-target analytes: MW-2A (480-198813-2), MW-2B (480-198813-3) and MW-4A (480-198813-6). Elevated reporting limits (RLs) are provided.

Method 300.0: The following sample was diluted due to the abundance of non-target analytes: MW-7A (480-198813-10). Elevated reporting limits (RLs) are provided.

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

Metals
Method 7470A: Due to interference with the sample matrix, the standard mercury preparation procedure was inadequate for the following samples(s): CD-1 (480-198720-1) and CD-1RA (480-198720-2). This was demonstrated when the potassium permanganate reagent was added and the characteristic purple color faded rapidly. This loss of color indicates oxidizing conditions were not maintained. The sample(s) was prepared and analyzed at a 1/2 dilution, which maintained the purple color during digestion.

Methods 7470A: Due to interference with the sample matrix, the standard mercury preparation procedure was inadequate for the following samples(s): MW-6A (480-198813-8). This was demonstrated when the potassium permanganate reagent was added and the characteristic purple color faded rapidly. This loss of color indicates oxidizing conditions were not maintained. The sample(s) was prepared and analyzed at a 1/2 dilution, which maintained the purple color during digestion.

Method 6010C: The recovery of post spike, (480-198813-D-3-A PDS), associated with batch 480-629955, exhibited a result outside quality control limits for Total Barium. However, the serial dilution (SD) of this sample was compliant, therefore no corrective action was necessary.

Method 6010C: The continuing calibration blank (CCB 480-630310/19) contained Dissolved Barium above the reporting limit (RL). All reported samples CD-1 (480-198720-1), CD-1RA (480-198720-2), DUP CD-1RA (480-198720-4), (LCS 480-629787/2-B), (MB 480-629787/1-B), (480-198720-E-2-C MS), (480-198720-E-2-D MSD), (480-198720-E-2-B PDS) and (480-198720-E-2-B SD) associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

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

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

General Chemistry
Method 7196A: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours)

remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: MW-3A (480-198813-4), MW-3B (480-198813-5), MW-4A (480-198813-6), (480-198813-K-4 DU) and (480-198813-K-5 MS).

Method 351.2: The laboratory control sample (LCS) for preparation batch 480-629708 and analytical batch 480-629788 recovered outside control limits for the following analytes: Total Kjeldahl Nitrogen. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.MW-1B (480-198720-3)

Method SM 5210B: The glucose-glutamic acid standard (LCS) recovered outside the recovery limits specified in the method in batch 480-629154. The method holding time had expired, therefore the analysis was not repeated. The data was qualified and reported.

Method SM 5310C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 480-630302 recovered outside control limits for the following analytes: Total Organic Carbon. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Methods 335.4: The method blank for preparation batch 480-630516 contained Cyanide, Total above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of sample was not performed.MW-7A (480-198813-10)

Method 310.2: Reanalysis of the following sample was performed outside of the analytical holding time due to supply chain issues : CD-1 (480-198720-1).

Methods SM 5310C: The results reported for the following samples do not concur with results previously reported for this site: MW-3B (480-198813-5), MW-4A (480-198813-6) and MW-6B (480-198813-9). Reanalysis was performed, and the result(s) confirmed.

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

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 480-629117.

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

Sample Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee LF Baseline Q2 2022

Job ID: 480-198720-1
SDG: 198720

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-198720-1	CD-1	Water	06/06/22 13:20	06/07/22 10:00
480-198720-2	CD-1RA	Water	06/06/22 12:10	06/07/22 10:00
480-198720-3	MW-1B	Water	06/06/22 14:40	06/07/22 10:00
480-198720-4	DUP CD-1RA	Water	06/06/22 12:10	06/07/22 10:00
480-198720-5	TRIP BLANK 1	Water	06/06/22 00:00	06/07/22 10:00
480-198722-1	CD-1	Water	06/06/22 13:20	06/07/22 10:00
480-198722-2	CD-1RA	Water	06/06/22 12:40	06/07/22 10:00
480-198722-3	MW-1B	Water	06/06/22 14:40	06/07/22 10:00
480-198813-1	MW-1A	Water	06/08/22 10:15	06/09/22 09:00
480-198813-2	MW-2A	Water	06/08/22 10:45	06/09/22 09:00
480-198813-3	MW-2B	Water	06/08/22 11:15	06/09/22 09:00
480-198813-4	MW-3A	Water	06/08/22 08:30	06/09/22 09:00
480-198813-5	MW-3B	Water	06/08/22 08:45	06/09/22 09:00
480-198813-6	MW-4A	Water	06/08/22 09:15	06/09/22 09:00
480-198813-7	MW-5A	Water	06/08/22 09:30	06/09/22 09:00
480-198813-8	MW-6A	Water	06/08/22 11:55	06/09/22 09:00
480-198813-9	MW-6B	Water	06/08/22 12:15	06/09/22 09:00
480-198813-10	MW-7A	Water	06/08/22 13:15	06/09/22 09:00
480-198813-11	TRIP BLANK 1	Water	06/08/22 08:30	06/09/22 09:00
480-198818-1	MW-1A	Water	06/08/22 10:30	06/09/22 09:00
480-198818-2	MW-2A	Water	06/08/22 10:45	06/09/22 09:00
480-198818-3	MW-2B	Water	06/08/22 11:15	06/09/22 09:00
480-198818-4	MW-6A	Water	06/08/22 11:55	06/09/22 09:00
480-198818-5	MW-6B	Water	06/08/22 12:15	06/09/22 09:00

Detection Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee LF Baseline Q2 2022

Job ID: 480-198720-1
SDG: 198720

Client Sample ID: CD-1 — Lab Sample ID: 480-198720-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	9.6		0.20		mg/L	1		6010C	Total/NA
Barium	0.45		0.0020		mg/L	1		6010C	Total/NA
Calcium	92.8		0.50		mg/L	1		6010C	Total/NA
Chromium	0.015		0.0040		mg/L	1		6010C	Total/NA
Cobalt	0.0058		0.0040		mg/L	1		6010C	Total/NA
Copper	0.043		0.010		mg/L	1		6010C	Total/NA
Iron	11.2		0.050		mg/L	1		6010C	Total/NA
Lead	0.010		0.010		mg/L	1		6010C	Total/NA
Magnesium	15.8		0.20		mg/L	1		6010C	Total/NA
Manganese	5.5		0.0030		mg/L	1		6010C	Total/NA
Nickel	0.015		0.010		mg/L	1		6010C	Total/NA
Potassium	3.2		0.50		mg/L	1		6010C	Total/NA
Sodium	4.3		1.0		mg/L	1		6010C	Total/NA
Vanadium	0.012		0.0050		mg/L	1		6010C	Total/NA
Zinc	0.054		0.010		mg/L	1		6010C	Total/NA
Barium	0.066	^2	0.0020		mg/L	1		6010C	Dissolved
Calcium	40.6		0.50		mg/L	1		6010C	Dissolved
Magnesium	9.5		0.20		mg/L	1		6010C	Dissolved
Potassium	1.6		0.50		mg/L	1		6010C	Dissolved
Sodium	4.0		1.0		mg/L	1		6010C	Dissolved
Hardness as calcium carbonate	297		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	22.7		20.0		mg/L	2		310.2	Total/NA
Alkalinity, Total	120	H	30.0		mg/L	3		310.2	Total/NA
Total Kjeldahl Nitrogen	0.90		0.20		mg/L	1		351.2	Total/NA
Sulfate	15.6		5.0		mg/L	1		9038	Total/NA
Color	15.0		5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	173		10.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: CD-1RA — Lab Sample ID: 480-198720-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	5.8		0.20		mg/L	1		6010C	Total/NA
Barium	0.22		0.0020		mg/L	1		6010C	Total/NA
Calcium	49.4		0.50		mg/L	1		6010C	Total/NA
Chromium	0.0074		0.0040		mg/L	1		6010C	Total/NA
Iron	7.2		0.050		mg/L	1		6010C	Total/NA
Magnesium	12.6		0.20		mg/L	1		6010C	Total/NA
Manganese	0.56		0.0030		mg/L	1		6010C	Total/NA
Potassium	2.3		0.50		mg/L	1		6010C	Total/NA
Sodium	5.2		1.0		mg/L	1		6010C	Total/NA
Vanadium	0.0084		0.0050		mg/L	1		6010C	Total/NA
Zinc	0.015		0.010		mg/L	1		6010C	Total/NA
Barium	0.15	^2	0.0020		mg/L	1		6010C	Dissolved
Calcium	41.5		0.50		mg/L	1		6010C	Dissolved
Magnesium	9.9		0.20		mg/L	1		6010C	Dissolved
Manganese	0.14		0.0030		mg/L	1		6010C	Dissolved
Potassium	0.70		0.50		mg/L	1		6010C	Dissolved
Sodium	4.6		1.0		mg/L	1		6010C	Dissolved
Hardness as calcium carbonate	175		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	137		30.0		mg/L	3		310.2	Total/NA
Total Kjeldahl Nitrogen	0.25		0.20		mg/L	1		351.2	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample ID: CD-1RA (Continued) — Lab Sample ID: 480-198720-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	17.5		5.0		mg/L	1		9038	Total/NA
Color	10.0		5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	166		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	2.0		1.0		mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-1B — Lab Sample ID: 480-198720-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	1.5		0.20		mg/L	1		6010C	Total/NA
Barium	0.24		0.0020		mg/L	1		6010C	Total/NA
Calcium	34.4		0.50		mg/L	1		6010C	Total/NA
Iron	1.2		0.050		mg/L	1		6010C	Total/NA
Magnesium	8.2		0.20		mg/L	1		6010C	Total/NA
Manganese	0.61		0.0030		mg/L	1		6010C	Total/NA
Potassium	0.81		0.50		mg/L	1		6010C	Total/NA
Sodium	8.5		1.0		mg/L	1		6010C	Total/NA
Zinc	0.011		0.010		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	120		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	110		30.0		mg/L	3		310.2	Total/NA
Cyanide, Total	0.011	F1	0.010		mg/L	1		335.4	Total/NA
Sulfate	12.9		5.0		mg/L	1		9038	Total/NA
Color	5.00		5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	147		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	14.2		1.0		mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: DUP CD-1RA — Lab Sample ID: 480-198720-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	5.3		0.20		mg/L	1		6010C	Total/NA
Barium	0.22		0.0020		mg/L	1		6010C	Total/NA
Calcium	50.1		0.50		mg/L	1		6010C	Total/NA
Chromium	0.0068		0.0040		mg/L	1		6010C	Total/NA
Iron	6.6		0.050		mg/L	1		6010C	Total/NA
Magnesium	12.6		0.20		mg/L	1		6010C	Total/NA
Manganese	0.56		0.0030		mg/L	1		6010C	Total/NA
Potassium	2.2		0.50		mg/L	1		6010C	Total/NA
Sodium	5.3		1.0		mg/L	1		6010C	Total/NA
Vanadium	0.0074		0.0050		mg/L	1		6010C	Total/NA
Zinc	0.014		0.010		mg/L	1		6010C	Total/NA
Barium	0.15	^2	0.0020		mg/L	1		6010C	Dissolved
Calcium	43.4		0.50		mg/L	1		6010C	Dissolved
Magnesium	10.1		0.20		mg/L	1		6010C	Dissolved
Manganese	0.14		0.0030		mg/L	1		6010C	Dissolved
Potassium	0.71		0.50		mg/L	1		6010C	Dissolved
Sodium	4.8		1.0		mg/L	1		6010C	Dissolved
Hardness as calcium carbonate	177		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	144		20.0		mg/L	2		310.2	Total/NA
Total Kjeldahl Nitrogen	0.26		0.20		mg/L	1		351.2	Total/NA
Sulfate	17.7		5.0		mg/L	1		9038	Total/NA
Color	5.00		5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	343		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	1.8		1.0		mg/L	1		SM 4500 Cl- E	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee LF Baseline Q2 2022

Job ID: 480-198720-1
SDG: 198720

Client Sample ID: TRIP BLANK 1 — Lab Sample ID: 480-198720-5

No Detections.

Client Sample ID: CD-1 — Lab Sample ID: 480-198722-1

No Detections.

Client Sample ID: CD-1RA — Lab Sample ID: 480-198722-2

No Detections.

Client Sample ID: MW-1B — Lab Sample ID: 480-198722-3

No Detections.

Client Sample ID: MW-1A — Lab Sample ID: 480-198813-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.39		0.20		mg/L	1		6010C	Total/NA
Barium	0.068		0.0020		mg/L	1		6010C	Total/NA
Boron	0.020		0.020		mg/L	1		6010C	Total/NA
Calcium	45.8		0.50		mg/L	1		6010C	Total/NA
Iron	0.37		0.050		mg/L	1		6010C	Total/NA
Magnesium	10.6		0.20		mg/L	1		6010C	Total/NA
Manganese	0.038		0.0030		mg/L	1		6010C	Total/NA
Potassium	0.96		0.50		mg/L	1		6010C	Total/NA
Sodium	11.1		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	158		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	149		30.0		mg/L	3		310.2	Total/NA
Ammonia	0.021		0.020		mg/L	1		350.1	Total/NA
Sulfate	18.3		5.0		mg/L	1		9038	Total/NA
Color	10.0	^-	5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	227		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	35.1		1.0		mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-2A — Lab Sample ID: 480-198813-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	1.1		1.0		ug/L	1		8260C	Total/NA
Chlorobenzene	1.7		1.0		ug/L	1		8260C	Total/NA
Aluminum	5.4		0.20		mg/L	1		6010C	Total/NA
Barium	0.50		0.0020		mg/L	1		6010C	Total/NA
Boron	0.21		0.020		mg/L	1		6010C	Total/NA
Calcium	75.8		0.50		mg/L	1		6010C	Total/NA
Chromium	0.0080		0.0040		mg/L	1		6010C	Total/NA
Cobalt	0.0050		0.0040		mg/L	1		6010C	Total/NA
Copper	0.010		0.010		mg/L	1		6010C	Total/NA
Iron	9.7		0.050		mg/L	1		6010C	Total/NA
Magnesium	17.1		0.20		mg/L	1		6010C	Total/NA
Manganese	10.6		0.0030		mg/L	1		6010C	Total/NA
Nickel	0.010		0.010		mg/L	1		6010C	Total/NA
Potassium	9.8		0.50		mg/L	1		6010C	Total/NA
Sodium	12.7		1.0		mg/L	1		6010C	Total/NA
Vanadium	0.0094		0.0050		mg/L	1		6010C	Total/NA
Zinc	0.017		0.010		mg/L	1		6010C	Total/NA
Barium	0.47		0.0020		mg/L	1		6010C	Dissolved

This Detection Summary does not include radiochemical test results.

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Client Sample ID: MW-2A (Continued)

Lab Sample ID: 480-198813-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.23		0.020		mg/L	1		6010C	Dissolved
Calcium	96.8		0.50		mg/L	1		6010C	Dissolved
Magnesium	19.7		0.20		mg/L	1		6010C	Dissolved
Manganese	12.2		0.0030		mg/L	1		6010C	Dissolved
Potassium	9.9		0.50		mg/L	1		6010C	Dissolved
Sodium	15.3		1.0		mg/L	1		6010C	Dissolved
Hardness as calcium carbonate	260		0.50		mg/L	1		SM 2340B	Total/NA
Bromide	0.95		0.40		mg/L	2		300.0	Total/NA
Alkalinity, Total	378		50.0		mg/L	5		310.2	Total/NA
Ammonia	7.8		0.10		mg/L	5		350.1	Total/NA
Total Kjeldahl Nitrogen	9.4		0.40		mg/L	2		351.2	Total/NA
Nitrate as N	0.25		0.050		mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	18.9		10.0		mg/L	1		410.4	Total/NA
Color	10.0	^-	5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	329		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	19.3		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Total Organic Carbon - Duplicates	6.5		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 1	6.5		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	6.5		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-2B

Lab Sample ID: 480-198813-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroethane	3.9		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	40		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	19		1.0		ug/L	1		8260C	Total/NA
Aluminum	0.31		0.20		mg/L	1		6010C	Total/NA
Barium	1.0		0.0020		mg/L	1		6010C	Total/NA
Boron	0.17		0.020		mg/L	1		6010C	Total/NA
Calcium	166		0.50		mg/L	1		6010C	Total/NA
Iron	0.51		0.050		mg/L	1		6010C	Total/NA
Magnesium	36.1		0.20		mg/L	1		6010C	Total/NA
Manganese	4.6		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.9		0.50		mg/L	1		6010C	Total/NA
Sodium	37.0		1.0		mg/L	1		6010C	Total/NA
Zinc	0.012		0.010		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	563		0.50		mg/L	1		SM 2340B	Total/NA
Bromide	1.5		0.40		mg/L	2		300.0	Total/NA
Alkalinity, Total	650		100		mg/L	10		310.2	Total/NA
Ammonia	0.53		0.020		mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	1.4		0.20		mg/L	1		351.2	Total/NA
Chemical Oxygen Demand	19.9		10.0		mg/L	1		410.4	Total/NA
Color	10.0	^-	5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	722		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	75.3	F1	1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Total Organic Carbon - Duplicates	4.0		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 1	3.9		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	4.1		1.0		mg/L	1		SM 5310C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee LF Baseline Q2 2022

Job ID: 480-198720-1
SDG: 198720

Client Sample ID: MW-3A — Lab Sample ID: 480-198813-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.38		0.20		mg/L	1		6010C	Total/NA
Barium	0.37		0.0020		mg/L	1		6010C	Total/NA
Calcium	48.0		0.50		mg/L	1		6010C	Total/NA
Iron	0.39		0.050		mg/L	1		6010C	Total/NA
Magnesium	10.0		0.20		mg/L	1		6010C	Total/NA
Manganese	0.31		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.3		0.50		mg/L	1		6010C	Total/NA
Sodium	5.6		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	161		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	191		20.0		mg/L	2		310.2	Total/NA
Ammonia	0.065		0.020		mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.78		0.20		mg/L	1		351.2	Total/NA
Nitrate as N	0.057		0.050		mg/L	1		353.2	Total/NA
Color	15.0	^-	5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	195		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	3.9		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Total Organic Carbon - Duplicates	1.5		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 1	1.5		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	1.5		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-3B — Lab Sample ID: 480-198813-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.19		0.0020		mg/L	1		6010C	Total/NA
Boron	0.030		0.020		mg/L	1		6010C	Total/NA
Calcium	43.4		0.50		mg/L	1		6010C	Total/NA
Iron	0.065		0.050		mg/L	1		6010C	Total/NA
Magnesium	13.0		0.20		mg/L	1		6010C	Total/NA
Manganese	0.028		0.0030		mg/L	1		6010C	Total/NA
Potassium	0.96		0.50		mg/L	1		6010C	Total/NA
Sodium	7.1		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	162		0.50		mg/L	1		SM 2340B	Total/NA
Bromide	0.31		0.20		mg/L	1		300.0	Total/NA
Alkalinity, Total	194		30.0		mg/L	3		310.2	Total/NA
Sulfate	11.8		5.0		mg/L	1		9038	Total/NA
Color	10.0	^-	5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	219		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	21.0		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Biochemical Oxygen Demand	2.3	b	2.0		mg/L	1		SM 5210B	Total/NA
Total Organic Carbon - Duplicates	3.0		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 1	2.9		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	3.1		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-4A — Lab Sample ID: 480-198813-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.88		0.0020		mg/L	1		6010C	Total/NA
Boron	0.054		0.020		mg/L	1		6010C	Total/NA
Calcium	106		0.50		mg/L	1		6010C	Total/NA
Iron	0.072		0.050		mg/L	1		6010C	Total/NA
Magnesium	23.3		0.20		mg/L	1		6010C	Total/NA
Manganese	0.48		0.0030		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample ID: MW-4A (Continued)

Lab Sample ID: 480-198813-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1.2		0.50		mg/L	1		6010C	Total/NA
Sodium	13.0		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	359		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	236		100		mg/L	10		310.2	Total/NA
Total Kjeldahl Nitrogen	0.37		0.20		mg/L	1		351.2	Total/NA
Color	10.0	^-	5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	405		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	10.6		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Total Organic Carbon - Duplicates	1.1		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 1	1.0		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	1.2		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-5A

Lab Sample ID: 480-198813-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.41		0.20		mg/L	1		6010C	Total/NA
Barium	0.55		0.0020		mg/L	1		6010C	Total/NA
Calcium	37.6		0.50		mg/L	1		6010C	Total/NA
Iron	0.27		0.050		mg/L	1		6010C	Total/NA
Magnesium	10.8		0.20		mg/L	1		6010C	Total/NA
Manganese	0.083		0.0030		mg/L	1		6010C	Total/NA
Potassium	0.87		0.50		mg/L	1		6010C	Total/NA
Sodium	8.1		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	138		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	171		30.0		mg/L	3		310.2	Total/NA
Total Kjeldahl Nitrogen	0.45		0.20		mg/L	1		351.2	Total/NA
Sulfate	17.7		5.0		mg/L	1		9038	Total/NA
Color	10.0	^-	5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	162		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	4.5		1.0		mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-6A

Lab Sample ID: 480-198813-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	45.3		0.20		mg/L	1		6010C	Total/NA
Arsenic	0.062		0.015		mg/L	1		6010C	Total/NA
Barium	1.3		0.0020		mg/L	1		6010C	Total/NA
Beryllium	0.0023		0.0020		mg/L	1		6010C	Total/NA
Boron	0.032		0.020		mg/L	1		6010C	Total/NA
Calcium	72.1		0.50		mg/L	1		6010C	Total/NA
Chromium	0.068		0.0040		mg/L	1		6010C	Total/NA
Cobalt	0.074		0.0040		mg/L	1		6010C	Total/NA
Copper	0.082		0.010		mg/L	1		6010C	Total/NA
Iron	80.3		0.050		mg/L	1		6010C	Total/NA
Lead	0.030		0.010		mg/L	1		6010C	Total/NA
Magnesium	22.4		0.20		mg/L	1		6010C	Total/NA
Manganese	6.9		0.0030		mg/L	1		6010C	Total/NA
Nickel	0.092		0.010		mg/L	1		6010C	Total/NA
Potassium	9.4		0.50		mg/L	1		6010C	Total/NA
Sodium	28.7		1.0		mg/L	1		6010C	Total/NA
Vanadium	0.060		0.0050		mg/L	1		6010C	Total/NA
Zinc	0.15		0.010		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-6A (Continued) — Lab Sample ID: 480-198813-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.20		0.20		mg/L	1		6010C	Dissolved
Barium	0.26		0.0020		mg/L	1		6010C	Dissolved
Calcium	72.1		0.50		mg/L	1		6010C	Dissolved
Iron	0.18		0.050		mg/L	1		6010C	Dissolved
Magnesium	10.5		0.20		mg/L	1		6010C	Dissolved
Manganese	1.0		0.0030		mg/L	1		6010C	Dissolved
Potassium	2.4		0.50		mg/L	1		6010C	Dissolved
Sodium	29.9		1.0		mg/L	1		6010C	Dissolved
Hardness as calcium carbonate	272		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	200		50.0		mg/L	5		310.2	Total/NA
Ammonia	0.19		0.020		mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	2.7		0.20		mg/L	1		351.2	Total/NA
Nitrate as N	0.075		0.050		mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	27.4		10.0		mg/L	1		410.4	Total/NA
Color	10.0	^-	5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	426		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	78.8		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Biochemical Oxygen Demand	4.7	b	2.0		mg/L	1		SM 5210B	Total/NA
Total Organic Carbon - Duplicates	5.7		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 1	6.5		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	4.9		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-6B — Lab Sample ID: 480-198813-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.27		0.20		mg/L	1		6010C	Total/NA
Barium	0.30		0.0020		mg/L	1		6010C	Total/NA
Calcium	49.5		0.50		mg/L	1		6010C	Total/NA
Iron	0.24		0.050		mg/L	1		6010C	Total/NA
Magnesium	11.5		0.20		mg/L	1		6010C	Total/NA
Manganese	0.035		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.0		0.50		mg/L	1		6010C	Total/NA
Sodium	35.5		1.0		mg/L	1		6010C	Total/NA
Zinc	0.012		0.010		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	171		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	160		30.0		mg/L	3		310.2	Total/NA
Nitrate as N	0.056		0.050		mg/L	1		353.2	Total/NA
Sulfate	15.0		5.0		mg/L	1		9038	Total/NA
Color	10.0	^-	5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	285		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	77.2		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Biochemical Oxygen Demand	2.0	b	2.0		mg/L	1		SM 5210B	Total/NA
Total Organic Carbon - Duplicates	7.0		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 1	7.1		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	7.0		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-7A — Lab Sample ID: 480-198813-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.1		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.2		1.0		ug/L	1		8260C	Total/NA
Aluminum	3.9		0.20		mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-7A (Continued) — Lab Sample ID: 480-198813-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.24		0.0020		mg/L	1		6010C	Total/NA
Boron	0.16		0.020		mg/L	1		6010C	Total/NA
Calcium	92.5		0.50		mg/L	1		6010C	Total/NA
Chromium	0.0047		0.0040		mg/L	1		6010C	Total/NA
Iron	4.9		0.050		mg/L	1		6010C	Total/NA
Magnesium	18.8		0.20		mg/L	1		6010C	Total/NA
Manganese	4.7		0.0030		mg/L	1		6010C	Total/NA
Potassium	2.8		0.50		mg/L	1		6010C	Total/NA
Sodium	29.5		1.0		mg/L	1		6010C	Total/NA
Vanadium	0.0055		0.0050		mg/L	1		6010C	Total/NA
Zinc	0.018		0.010		mg/L	1		6010C	Total/NA
Barium	0.21		0.0020		mg/L	1		6010C	Dissolved
Boron	0.17		0.020		mg/L	1		6010C	Dissolved
Calcium	99.1		0.50		mg/L	1		6010C	Dissolved
Magnesium	19.0		0.20		mg/L	1		6010C	Dissolved
Manganese	4.4		0.0030		mg/L	1		6010C	Dissolved
Potassium	2.0		0.50		mg/L	1		6010C	Dissolved
Sodium	32.0		1.0		mg/L	1		6010C	Dissolved
Zinc	0.010		0.010		mg/L	1		6010C	Dissolved
Hardness as calcium carbonate	309		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	445		50.0		mg/L	5		310.2	Total/NA
Ammonia	0.10		0.020		mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.93		0.20		mg/L	1		351.2	Total/NA
Color	25.0	^-	5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	423		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	19.4		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Total Organic Carbon - Duplicates	8.0		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 1	9.6		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	6.4		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: TRIP BLANK 1 — Lab Sample ID: 480-198813-11

No Detections.

Client Sample ID: MW-1A — Lab Sample ID: 480-198818-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.24		0.20		ug/L	1		8270D SIM ID	Total/NA
Perfluorooctanoic acid (PFOA)	2.5		1.8		ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-2A — Lab Sample ID: 480-198818-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	3.6		0.20		ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	5.3		4.3		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.2		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	6.6		1.7		ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.3		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	12		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.4		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	18		1.7		ng/L	1		537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.7		4.3		ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee LF Baseline Q2 2022

Job ID: 480-198720-1
SDG: 198720

Client Sample ID: MW-2B — Lab Sample ID: 480-198818-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	15		2.0		ug/L	10		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	10		4.2		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	8.6		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	15		1.7		ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	8.1		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	22		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.4		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.6		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	13		1.7		ng/L	1		537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5.3		4.2		ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-6A — Lab Sample ID: 480-198818-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	2.6		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.1		1.8		ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-6B — Lab Sample ID: 480-198818-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Method Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee LF Baseline Q2 2022

Job ID: 480-198720-1
SDG: 198720

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL BUR
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
410.4	COD	MCAWW	TAL BUF
420.4	Phenolics, Total Recoverable	MCAWW	TAL BUF
7196A	Chromium, Hexavalent	SW846	TAL BUF
9038	Sulfate, Turbidimetric	SW846	TAL BUF
SM 2120B	Color, Colorimetric	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 4500 Cl- E	Chloride, Total	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	TAL BUF
SM 5310C	TOC	SM	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3535	Solid-Phase Extraction (SPE)	SW846	TAL BUR
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF
FILTRATION	Sample Filtration	None	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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

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

Client Sample ID: CD-1
Date Collected: 06/06/22 13:20
Date Received: 06/07/22 10:00

Lab Sample ID: 480-198720-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/12/22 02:10	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/12/22 02:10	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/12/22 02:10	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/12/22 02:10	1
1,1-Dichloroethane	ND		1.0		ug/L			06/12/22 02:10	1
1,1-Dichloroethene	ND		1.0		ug/L			06/12/22 02:10	1
1,2,3-Trichloropropane	ND		1.0		ug/L			06/12/22 02:10	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/12/22 02:10	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/12/22 02:10	1
1,2-Dichloroethane	ND		1.0		ug/L			06/12/22 02:10	1
1,2-Dichloropropane	ND		1.0		ug/L			06/12/22 02:10	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/12/22 02:10	1
2-Butanone (MEK)	ND	*+	10		ug/L			06/12/22 02:10	1
2-Hexanone	ND		5.0		ug/L			06/12/22 02:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			06/12/22 02:10	1
Acetone	ND		10		ug/L			06/12/22 02:10	1
Acrylonitrile	ND		5.0		ug/L			06/12/22 02:10	1
Benzene	ND		1.0		ug/L			06/12/22 02:10	1
Chlorobromomethane	ND		1.0		ug/L			06/12/22 02:10	1
Bromodichloromethane	ND		1.0		ug/L			06/12/22 02:10	1
Bromoform	ND		1.0		ug/L			06/12/22 02:10	1
Bromomethane	ND		1.0		ug/L			06/12/22 02:10	1
Carbon disulfide	ND		1.0		ug/L			06/12/22 02:10	1
Carbon tetrachloride	ND		1.0		ug/L			06/12/22 02:10	1
Chlorobenzene	ND		1.0		ug/L			06/12/22 02:10	1
Dibromochloromethane	ND		1.0		ug/L			06/12/22 02:10	1
Chloroethane	ND		1.0		ug/L			06/12/22 02:10	1
Chloroform	ND		1.0		ug/L			06/12/22 02:10	1
Chloromethane	ND		1.0		ug/L			06/12/22 02:10	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/12/22 02:10	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/12/22 02:10	1
Dibromomethane	ND		1.0		ug/L			06/12/22 02:10	1
Ethylbenzene	ND		1.0		ug/L			06/12/22 02:10	1
1,2-Dibromoethane	ND		1.0		ug/L			06/12/22 02:10	1
Iodomethane	ND		1.0		ug/L			06/12/22 02:10	1
Methylene Chloride	ND		1.0		ug/L			06/12/22 02:10	1
Styrene	ND		1.0		ug/L			06/12/22 02:10	1
Tetrachloroethene	ND		1.0		ug/L			06/12/22 02:10	1
Trichlorofluoromethane	ND		1.0		ug/L			06/12/22 02:10	1
Trichloroethene	ND		1.0		ug/L			06/12/22 02:10	1
Toluene	ND		1.0		ug/L			06/12/22 02:10	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/12/22 02:10	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/12/22 02:10	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			06/12/22 02:10	1
Vinyl acetate	ND		5.0		ug/L			06/12/22 02:10	1
Vinyl chloride	ND		1.0		ug/L			06/12/22 02:10	1
Xylenes, Total	ND		2.0		ug/L			06/12/22 02:10	1
m,p-Xylene	ND		2.0		ug/L			06/12/22 02:10	1
o-Xylene	ND		1.0		ug/L			06/12/22 02:10	1

Client Sample ID: CD-1

Date Collected: 06/06/22 13:20
Date Received: 06/07/22 10:00

Lab Sample ID: 480-198720-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*06/12/22 02:10*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/12/22 02:10*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*06/12/22 02:10*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9.6**		0.20		mg/L		06/09/22 13:09	06/10/22 02:38	1
Antimony	ND		0.020		mg/L		06/09/22 13:09	06/10/22 02:38	1
Arsenic	ND		0.015		mg/L		06/09/22 13:09	06/10/22 02:38	1
Barium	**0.45**		0.0020		mg/L		06/09/22 13:09	06/10/22 02:38	1
Beryllium	ND		0.0020		mg/L		06/09/22 13:09	06/10/22 02:38	1
Boron	ND		0.020		mg/L		06/09/22 13:09	06/10/22 02:38	1
Cadmium	ND		0.0020		mg/L		06/09/22 13:09	06/10/22 02:38	1
Calcium	**92.8**		0.50		mg/L		06/09/22 13:09	06/10/22 02:38	1
Chromium	**0.015**		0.0040		mg/L		06/09/22 13:09	06/10/22 02:38	1
Cobalt	**0.0058**		0.0040		mg/L		06/09/22 13:09	06/10/22 02:38	1
Copper	**0.043**		0.010		mg/L		06/09/22 13:09	06/10/22 02:38	1
Iron	**11.2**		0.050		mg/L		06/09/22 13:09	06/10/22 02:38	1
Lead	**0.010**		0.010		mg/L		06/09/22 13:09	06/10/22 02:38	1
Magnesium	**15.8**		0.20		mg/L		06/09/22 13:09	06/10/22 02:38	1
Manganese	**5.5**		0.0030		mg/L		06/09/22 13:09	06/10/22 02:38	1
Nickel	**0.015**		0.010		mg/L		06/09/22 13:09	06/10/22 02:38	1
Potassium	**3.2**		0.50		mg/L		06/09/22 13:09	06/10/22 02:38	1
Selenium	ND		0.025		mg/L		06/09/22 13:09	06/10/22 02:38	1
Silver	ND		0.0060		mg/L		06/09/22 13:09	06/10/22 02:38	1
Sodium	**4.3**		1.0		mg/L		06/09/22 13:09	06/10/22 02:38	1
Thallium	ND		0.020		mg/L		06/09/22 13:09	06/10/22 02:38	1
Vanadium	**0.012**		0.0050		mg/L		06/09/22 13:09	06/10/22 02:38	1
Zinc	**0.054**		0.010		mg/L		06/09/22 13:09	06/10/22 15:03	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		06/14/22 09:55	06/15/22 12:59	1
Antimony	ND		0.020		mg/L		06/14/22 09:55	06/15/22 12:59	1
Arsenic	ND		0.015		mg/L		06/14/22 09:55	06/15/22 12:59	1
Barium	**0.066**	**^2**	0.0020		mg/L		06/14/22 09:55	06/15/22 12:59	1
Beryllium	ND		0.0020		mg/L		06/14/22 09:55	06/15/22 12:59	1
Boron	ND		0.020		mg/L		06/14/22 09:55	06/15/22 12:59	1
Cadmium	ND		0.0020		mg/L		06/14/22 09:55	06/15/22 12:59	1
Calcium	**40.6**		0.50		mg/L		06/14/22 09:55	06/15/22 12:59	1
Chromium	ND		0.0040		mg/L		06/14/22 09:55	06/15/22 12:59	1
Cobalt	ND		0.0040		mg/L		06/14/22 09:55	06/15/22 12:59	1
Copper	ND		0.010		mg/L		06/14/22 09:55	06/15/22 12:59	1
Iron	ND		0.050		mg/L		06/14/22 09:55	06/15/22 12:59	1
Lead	ND		0.010		mg/L		06/14/22 09:55	06/15/22 12:59	1
Magnesium	**9.5**		0.20		mg/L		06/14/22 09:55	06/15/22 12:59	1
Manganese	ND		0.0030		mg/L		06/14/22 09:55	06/15/22 12:59	1
Nickel	ND		0.010		mg/L		06/14/22 09:55	06/15/22 12:59	1
Potassium	**1.6**		0.50		mg/L		06/14/22 09:55	06/15/22 12:59	1
Selenium	ND		0.025		mg/L		06/14/22 09:55	06/15/22 12:59	1

Client Sample ID: CD-1
Lab Sample ID: 480-198720-1

Date Collected: 06/06/22 13:20
Matrix: Water
Date Received: 06/07/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0060		mg/L		06/14/22 09:55	06/15/22 12:59	1
Sodium	**4.0**		1.0		mg/L		06/14/22 09:55	06/15/22 12:59	1
Thallium	ND		0.020		mg/L		06/14/22 09:55	06/15/22 12:59	1
Zinc	ND		0.010		mg/L		06/14/22 09:55	06/15/22 12:59	1
Vanadium	ND		0.0050		mg/L		06/14/22 09:55	06/15/22 12:59	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00040		mg/L		06/10/22 12:25	06/10/22 16:42	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/14/22 10:39	06/14/22 13:54	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**297**		0.50		mg/L			06/10/22 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			06/14/22 17:11	1
Alkalinity, Total	**22.7**		20.0		mg/L			06/08/22 16:55	2
Alkalinity, Total	**120**	**H**	30.0		mg/L			06/21/22 13:18	3
Cyanide, Total	ND		0.010		mg/L		06/11/22 14:15	06/13/22 11:14	1
Ammonia	ND		0.020		mg/L			06/08/22 08:57	1
Total Kjeldahl Nitrogen	**0.90**		0.20		mg/L		06/15/22 12:38	06/16/22 08:25	1
Nitrate as N	ND		0.050		mg/L			06/07/22 19:33	1
Chemical Oxygen Demand	ND		10.0		mg/L			06/14/22 18:00	1
Phenolics, Total Recoverable	ND	F1	0.010		mg/L			06/13/22 09:26	1
Chromium, hexavalent	ND		0.010		mg/L			06/07/22 11:00	1
Sulfate	**15.6**		5.0		mg/L			06/09/22 13:50	1
Total Dissolved Solids	**173**		10.0		mg/L			06/09/22 09:45	1
Chloride	ND		1.0		mg/L			06/26/22 14:50	1
Biochemical Oxygen Demand	ND	*+	2.0		mg/L			06/07/22 18:52	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			06/14/22 02:15	1
TOC Result 1	ND		1.0		mg/L			06/14/22 02:15	1
TOC Result 2	ND		1.0		mg/L			06/14/22 02:15	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**15.0**		5.00		Color Units			06/07/22 15:30	1

Client Sample ID: CD-1RA
Lab Sample ID: 480-198720-2

Date Collected: 06/06/22 12:10
Matrix: Water
Date Received: 06/07/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/12/22 02:32	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/12/22 02:32	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/12/22 02:32	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/12/22 02:32	1
1,1-Dichloroethane	ND		1.0		ug/L			06/12/22 02:32	1

Client Sample ID: CD-1RA
Date Collected: 06/06/22 12:10
Date Received: 06/07/22 10:00

Lab Sample ID: 480-198720-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0		ug/L			06/12/22 02:32	1
1,2,3-Trichloropropane	ND		1.0		ug/L			06/12/22 02:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/12/22 02:32	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/12/22 02:32	1
1,2-Dichloroethane	ND		1.0		ug/L			06/12/22 02:32	1
1,2-Dichloropropane	ND		1.0		ug/L			06/12/22 02:32	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/12/22 02:32	1
2-Butanone (MEK)	ND	*+	10		ug/L			06/12/22 02:32	1
2-Hexanone	ND		5.0		ug/L			06/12/22 02:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			06/12/22 02:32	1
Acetone	ND		10		ug/L			06/12/22 02:32	1
Acrylonitrile	ND		5.0		ug/L			06/12/22 02:32	1
Benzene	ND		1.0		ug/L			06/12/22 02:32	1
Chlorobromomethane	ND		1.0		ug/L			06/12/22 02:32	1
Bromodichloromethane	ND		1.0		ug/L			06/12/22 02:32	1
Bromoform	ND		1.0		ug/L			06/12/22 02:32	1
Bromomethane	ND		1.0		ug/L			06/12/22 02:32	1
Carbon disulfide	ND		1.0		ug/L			06/12/22 02:32	1
Carbon tetrachloride	ND		1.0		ug/L			06/12/22 02:32	1
Chlorobenzene	ND		1.0		ug/L			06/12/22 02:32	1
Dibromochloromethane	ND		1.0		ug/L			06/12/22 02:32	1
Chloroethane	ND		1.0		ug/L			06/12/22 02:32	1
Chloroform	ND		1.0		ug/L			06/12/22 02:32	1
Chloromethane	ND		1.0		ug/L			06/12/22 02:32	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/12/22 02:32	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/12/22 02:32	1
Dibromomethane	ND		1.0		ug/L			06/12/22 02:32	1
Ethylbenzene	ND		1.0		ug/L			06/12/22 02:32	1
1,2-Dibromoethane	ND		1.0		ug/L			06/12/22 02:32	1
Iodomethane	ND		1.0		ug/L			06/12/22 02:32	1
Methylene Chloride	ND		1.0		ug/L			06/12/22 02:32	1
Styrene	ND		1.0		ug/L			06/12/22 02:32	1
Tetrachloroethene	ND		1.0		ug/L			06/12/22 02:32	1
Trichlorofluoromethane	ND		1.0		ug/L			06/12/22 02:32	1
Trichloroethene	ND		1.0		ug/L			06/12/22 02:32	1
Toluene	ND		1.0		ug/L			06/12/22 02:32	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/12/22 02:32	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/12/22 02:32	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			06/12/22 02:32	1
Vinyl acetate	ND		5.0		ug/L			06/12/22 02:32	1
Vinyl chloride	ND		1.0		ug/L			06/12/22 02:32	1
Xylenes, Total	ND		2.0		ug/L			06/12/22 02:32	1
m,p-Xylene	ND		2.0		ug/L			06/12/22 02:32	1
o-Xylene	ND		1.0		ug/L			06/12/22 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*06/12/22 02:32*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/12/22 02:32*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*06/12/22 02:32*	*1*

Client Sample ID: CD-1RA
Date Collected: 06/06/22 12:10
Date Received: 06/07/22 10:00

Lab Sample ID: 480-198720-2
Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5.8**		0.20		mg/L		06/09/22 13:09	06/10/22 02:42	1
Antimony	ND		0.020		mg/L		06/09/22 13:09	06/10/22 02:42	1
Arsenic	ND		0.015		mg/L		06/09/22 13:09	06/10/22 02:42	1
Barium	**0.22**		0.0020		mg/L		06/09/22 13:09	06/10/22 02:42	1
Beryllium	ND		0.0020		mg/L		06/09/22 13:09	06/10/22 02:42	1
Boron	ND		0.020		mg/L		06/09/22 13:09	06/10/22 02:42	1
Cadmium	ND		0.0020		mg/L		06/09/22 13:09	06/10/22 02:42	1
Calcium	**49.4**		0.50		mg/L		06/09/22 13:09	06/10/22 02:42	1
Chromium	**0.0074**		0.0040		mg/L		06/09/22 13:09	06/10/22 02:42	1
Cobalt	ND		0.0040		mg/L		06/09/22 13:09	06/10/22 02:42	1
Copper	ND		0.010		mg/L		06/09/22 13:09	06/10/22 02:42	1
Iron	**7.2**		0.050		mg/L		06/09/22 13:09	06/10/22 02:42	1
Lead	ND		0.010		mg/L		06/09/22 13:09	06/10/22 02:42	1
Magnesium	**12.6**		0.20		mg/L		06/09/22 13:09	06/10/22 02:42	1
Manganese	**0.56**		0.0030		mg/L		06/09/22 13:09	06/10/22 02:42	1
Nickel	ND		0.010		mg/L		06/09/22 13:09	06/10/22 02:42	1
Potassium	**2.3**		0.50		mg/L		06/09/22 13:09	06/10/22 02:42	1
Selenium	ND		0.025		mg/L		06/09/22 13:09	06/10/22 02:42	1
Silver	ND		0.0060		mg/L		06/09/22 13:09	06/10/22 02:42	1
Sodium	**5.2**		1.0		mg/L		06/09/22 13:09	06/10/22 02:42	1
Thallium	ND		0.020		mg/L		06/09/22 13:09	06/10/22 02:42	1
Vanadium	**0.0084**		0.0050		mg/L		06/09/22 13:09	06/10/22 02:42	1
Zinc	**0.015**		0.010		mg/L		06/09/22 13:09	06/10/22 15:07	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		06/14/22 09:55	06/15/22 13:03	1
Antimony	ND		0.020		mg/L		06/14/22 09:55	06/15/22 13:03	1
Arsenic	ND		0.015		mg/L		06/14/22 09:55	06/15/22 13:03	1
Barium	**0.15**	**^2**	0.0020		mg/L		06/14/22 09:55	06/15/22 13:03	1
Beryllium	ND		0.0020		mg/L		06/14/22 09:55	06/15/22 13:03	1
Boron	ND		0.020		mg/L		06/14/22 09:55	06/15/22 13:03	1
Cadmium	ND		0.0020		mg/L		06/14/22 09:55	06/15/22 13:03	1
Calcium	**41.5**		0.50		mg/L		06/14/22 09:55	06/15/22 13:03	1
Chromium	ND		0.0040		mg/L		06/14/22 09:55	06/15/22 13:03	1
Cobalt	ND		0.0040		mg/L		06/14/22 09:55	06/15/22 13:03	1
Copper	ND		0.010		mg/L		06/14/22 09:55	06/15/22 13:03	1
Iron	ND		0.050		mg/L		06/14/22 09:55	06/15/22 13:03	1
Lead	ND		0.010		mg/L		06/14/22 09:55	06/15/22 13:03	1
Magnesium	**9.9**		0.20		mg/L		06/14/22 09:55	06/15/22 13:03	1
Manganese	**0.14**		0.0030		mg/L		06/14/22 09:55	06/15/22 13:03	1
Nickel	ND		0.010		mg/L		06/14/22 09:55	06/15/22 13:03	1
Potassium	**0.70**		0.50		mg/L		06/14/22 09:55	06/15/22 13:03	1
Selenium	ND		0.025		mg/L		06/14/22 09:55	06/15/22 13:03	1
Silver	ND		0.0060		mg/L		06/14/22 09:55	06/15/22 13:03	1
Sodium	**4.6**		1.0		mg/L		06/14/22 09:55	06/15/22 13:03	1
Thallium	ND		0.020		mg/L		06/14/22 09:55	06/15/22 13:03	1
Zinc	ND		0.010		mg/L		06/14/22 09:55	06/15/22 13:03	1
Vanadium	ND		0.0050		mg/L		06/14/22 09:55	06/15/22 13:03	1

Client Sample ID: CD-1RA
Lab Sample ID: 480-198720-2

Date Collected: 06/06/22 12:10
Matrix: Water
Date Received: 06/07/22 10:00

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00040		mg/L		06/10/22 12:25	06/10/22 16:43	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/14/22 10:39	06/14/22 13:55	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**175**		0.50		mg/L			06/10/22 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			06/14/22 17:25	1
Alkalinity, Total	**137**		30.0		mg/L			06/08/22 16:37	3
Cyanide, Total	ND		0.010		mg/L		06/11/22 14:15	06/13/22 11:15	1
Ammonia	ND		0.020		mg/L			06/08/22 08:58	1
Total Kjeldahl Nitrogen	**0.25**		0.20		mg/L		06/15/22 12:38	06/16/22 08:25	1
Nitrate as N	ND		0.050		mg/L			06/07/22 19:35	1
Chemical Oxygen Demand	ND		10.0		mg/L			06/14/22 18:00	1
Phenolics, Total Recoverable	ND		0.010		mg/L			06/13/22 09:35	1
Chromium, hexavalent	ND		0.010		mg/L			06/07/22 11:00	1
Sulfate	**17.5**		5.0		mg/L			06/09/22 13:50	1
Total Dissolved Solids	**166**		10.0		mg/L			06/09/22 09:45	1
Chloride	**2.0**		1.0		mg/L			06/08/22 23:10	1
Biochemical Oxygen Demand	ND	*+	2.0		mg/L			06/07/22 18:52	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			06/14/22 02:32	1
TOC Result 1	ND		1.0		mg/L			06/14/22 02:32	1
TOC Result 2	ND		1.0		mg/L			06/14/22 02:32	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**10.0**		5.00		Color Units			06/07/22 15:30	1

Client Sample ID: MW-1B
Lab Sample ID: 480-198720-3

Date Collected: 06/06/22 14:40
Matrix: Water
Date Received: 06/07/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/12/22 02:54	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/12/22 02:54	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/12/22 02:54	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/12/22 02:54	1
1,1-Dichloroethane	ND		1.0		ug/L			06/12/22 02:54	1
1,1-Dichloroethene	ND		1.0		ug/L			06/12/22 02:54	1
1,2,3-Trichloropropane	ND		1.0		ug/L			06/12/22 02:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/12/22 02:54	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/12/22 02:54	1
1,2-Dichloroethane	ND		1.0		ug/L			06/12/22 02:54	1
1,2-Dichloropropane	ND		1.0		ug/L			06/12/22 02:54	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/12/22 02:54	1
2-Butanone (MEK)	ND	*+	10		ug/L			06/12/22 02:54	1

Client Sample ID: MW-1B
Date Collected: 06/06/22 14:40
Date Received: 06/07/22 10:00

Lab Sample ID: 480-198720-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0		ug/L			06/12/22 02:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			06/12/22 02:54	1
Acetone	ND		10		ug/L			06/12/22 02:54	1
Acrylonitrile	ND		5.0		ug/L			06/12/22 02:54	1
Benzene	ND		1.0		ug/L			06/12/22 02:54	1
Chlorobromomethane	ND		1.0		ug/L			06/12/22 02:54	1
Bromodichloromethane	ND		1.0		ug/L			06/12/22 02:54	1
Bromoform	ND		1.0		ug/L			06/12/22 02:54	1
Bromomethane	ND		1.0		ug/L			06/12/22 02:54	1
Carbon disulfide	ND		1.0		ug/L			06/12/22 02:54	1
Carbon tetrachloride	ND		1.0		ug/L			06/12/22 02:54	1
Chlorobenzene	ND		1.0		ug/L			06/12/22 02:54	1
Dibromochloromethane	ND		1.0		ug/L			06/12/22 02:54	1
Chloroethane	ND		1.0		ug/L			06/12/22 02:54	1
Chloroform	ND		1.0		ug/L			06/12/22 02:54	1
Chloromethane	ND		1.0		ug/L			06/12/22 02:54	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/12/22 02:54	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/12/22 02:54	1
Dibromomethane	ND		1.0		ug/L			06/12/22 02:54	1
Ethylbenzene	ND		1.0		ug/L			06/12/22 02:54	1
1,2-Dibromoethane	ND		1.0		ug/L			06/12/22 02:54	1
Iodomethane	ND		1.0		ug/L			06/12/22 02:54	1
Methylene Chloride	ND		1.0		ug/L			06/12/22 02:54	1
Styrene	ND		1.0		ug/L			06/12/22 02:54	1
Tetrachloroethene	ND		1.0		ug/L			06/12/22 02:54	1
Trichlorofluoromethane	ND		1.0		ug/L			06/12/22 02:54	1
Trichloroethene	ND		1.0		ug/L			06/12/22 02:54	1
Toluene	ND		1.0		ug/L			06/12/22 02:54	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/12/22 02:54	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/12/22 02:54	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			06/12/22 02:54	1
Vinyl acetate	ND		5.0		ug/L			06/12/22 02:54	1
Vinyl chloride	ND		1.0		ug/L			06/12/22 02:54	1
Xylenes, Total	ND		2.0		ug/L			06/12/22 02:54	1
m,p-Xylene	ND		2.0		ug/L			06/12/22 02:54	1
o-Xylene	ND		1.0		ug/L			06/12/22 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*06/12/22 02:54*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/12/22 02:54*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*06/12/22 02:54*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1.5**		0.20		mg/L		06/09/22 13:09	06/10/22 02:46	1
Antimony	ND		0.020		mg/L		06/09/22 13:09	06/10/22 02:46	1
Arsenic	ND		0.015		mg/L		06/09/22 13:09	06/10/22 02:46	1
Barium	**0.24**		0.0020		mg/L		06/09/22 13:09	06/10/22 02:46	1
Beryllium	ND		0.0020		mg/L		06/09/22 13:09	06/10/22 02:46	1
Boron	ND		0.020		mg/L		06/09/22 13:09	06/10/22 02:46	1

Client Sample ID: MW-1B
Date Collected: 06/06/22 14:40
Date Received: 06/07/22 10:00

Lab Sample ID: 480-198720-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		06/09/22 13:09	06/10/22 02:46	1
Calcium	**34.4**		0.50		mg/L		06/09/22 13:09	06/10/22 02:46	1
Chromium	ND		0.0040		mg/L		06/09/22 13:09	06/10/22 02:46	1
Cobalt	ND		0.0040		mg/L		06/09/22 13:09	06/10/22 02:46	1
Copper	ND		0.010		mg/L		06/09/22 13:09	06/10/22 02:46	1
Iron	**1.2**		0.050		mg/L		06/09/22 13:09	06/10/22 02:46	1
Lead	ND		0.010		mg/L		06/09/22 13:09	06/10/22 02:46	1
Magnesium	**8.2**		0.20		mg/L		06/09/22 13:09	06/10/22 02:46	1
Manganese	**0.61**		0.0030		mg/L		06/09/22 13:09	06/10/22 02:46	1
Nickel	ND		0.010		mg/L		06/09/22 13:09	06/10/22 02:46	1
Potassium	**0.81**		0.50		mg/L		06/09/22 13:09	06/10/22 02:46	1
Selenium	ND		0.025		mg/L		06/09/22 13:09	06/10/22 02:46	1
Silver	ND		0.0060		mg/L		06/09/22 13:09	06/10/22 02:46	1
Sodium	**8.5**		1.0		mg/L		06/09/22 13:09	06/10/22 02:46	1
Thallium	ND		0.020		mg/L		06/09/22 13:09	06/10/22 02:46	1
Vanadium	ND		0.0050		mg/L		06/09/22 13:09	06/10/22 02:46	1
Zinc	**0.011**		0.010		mg/L		06/09/22 13:09	06/10/22 15:11	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/10/22 12:25	06/10/22 16:44	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**120**		0.50		mg/L			06/10/22 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			06/14/22 17:39	1
Alkalinity, Total	**110**		30.0		mg/L			06/08/22 16:37	3
Cyanide, Total	**0.011**	**F1**	0.010		mg/L		06/11/22 14:15	06/13/22 11:20	1
Ammonia	ND		0.020		mg/L			06/08/22 08:59	1
Total Kjeldahl Nitrogen	ND	*+	0.20		mg/L		06/12/22 12:55	06/13/22 08:15	1
Nitrate as N	ND		0.050		mg/L			06/07/22 19:36	1
Chemical Oxygen Demand	ND		10.0		mg/L			06/14/22 18:00	1
Phenolics, Total Recoverable	ND		0.010		mg/L			06/13/22 09:39	1
Chromium, hexavalent	ND		0.010		mg/L			06/07/22 11:00	1
Sulfate	**12.9**		5.0		mg/L			06/09/22 13:51	1
Total Dissolved Solids	**147**		10.0		mg/L			06/09/22 09:41	1
Chloride	**14.2**		1.0		mg/L			06/08/22 23:22	1
Biochemical Oxygen Demand	ND	*+	2.0		mg/L			06/07/22 18:52	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			06/14/22 02:46	1
TOC Result 1	ND		1.0		mg/L			06/14/22 02:46	1
TOC Result 2	ND		1.0		mg/L			06/14/22 02:46	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**5.00**		5.00		Color Units			06/07/22 15:30	1

Client Sample ID: DUP CD-1RA

Lab Sample ID: 480-198720-4

Date Collected: 06/06/22 12:10

Matrix: Water

Date Received: 06/07/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/12/22 03:16	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/12/22 03:16	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/12/22 03:16	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/12/22 03:16	1
1,1-Dichloroethane	ND		1.0		ug/L			06/12/22 03:16	1
1,1-Dichloroethene	ND		1.0		ug/L			06/12/22 03:16	1
1,2,3-Trichloropropane	ND		1.0		ug/L			06/12/22 03:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/12/22 03:16	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/12/22 03:16	1
1,2-Dichloroethane	ND		1.0		ug/L			06/12/22 03:16	1
1,2-Dichloropropane	ND		1.0		ug/L			06/12/22 03:16	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/12/22 03:16	1
2-Butanone (MEK)	ND	*+	10		ug/L			06/12/22 03:16	1
2-Hexanone	ND		5.0		ug/L			06/12/22 03:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			06/12/22 03:16	1
Acetone	ND		10		ug/L			06/12/22 03:16	1
Acrylonitrile	ND		5.0		ug/L			06/12/22 03:16	1
Benzene	ND		1.0		ug/L			06/12/22 03:16	1
Chlorobromomethane	ND		1.0		ug/L			06/12/22 03:16	1
Bromodichloromethane	ND		1.0		ug/L			06/12/22 03:16	1
Bromoform	ND		1.0		ug/L			06/12/22 03:16	1
Bromomethane	ND		1.0		ug/L			06/12/22 03:16	1
Carbon disulfide	ND		1.0		ug/L			06/12/22 03:16	1
Carbon tetrachloride	ND		1.0		ug/L			06/12/22 03:16	1
Chlorobenzene	ND		1.0		ug/L			06/12/22 03:16	1
Dibromochloromethane	ND		1.0		ug/L			06/12/22 03:16	1
Chloroethane	ND		1.0		ug/L			06/12/22 03:16	1
Chloroform	ND		1.0		ug/L			06/12/22 03:16	1
Chloromethane	ND		1.0		ug/L			06/12/22 03:16	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/12/22 03:16	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/12/22 03:16	1
Dibromomethane	ND		1.0		ug/L			06/12/22 03:16	1
Ethylbenzene	ND		1.0		ug/L			06/12/22 03:16	1
1,2-Dibromoethane	ND		1.0		ug/L			06/12/22 03:16	1
Iodomethane	ND		1.0		ug/L			06/12/22 03:16	1
Methylene Chloride	ND		1.0		ug/L			06/12/22 03:16	1
Styrene	ND		1.0		ug/L			06/12/22 03:16	1
Tetrachloroethene	ND		1.0		ug/L			06/12/22 03:16	1
Trichlorofluoromethane	ND		1.0		ug/L			06/12/22 03:16	1
Trichloroethene	ND		1.0		ug/L			06/12/22 03:16	1
Toluene	ND		1.0		ug/L			06/12/22 03:16	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/12/22 03:16	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/12/22 03:16	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			06/12/22 03:16	1
Vinyl acetate	ND		5.0		ug/L			06/12/22 03:16	1
Vinyl chloride	ND		1.0		ug/L			06/12/22 03:16	1
Xylenes, Total	ND		2.0		ug/L			06/12/22 03:16	1
m,p-Xylene	ND		2.0		ug/L			06/12/22 03:16	1
o-Xylene	ND		1.0		ug/L			06/12/22 03:16	1

Client Sample ID: DUP CD-1RA

Lab Sample ID: 480-198720-4

Date Collected: 06/06/22 12:10

Matrix: Water

Date Received: 06/07/22 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*06/12/22 03:16*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/12/22 03:16*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*06/12/22 03:16*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5.3**		0.20		mg/L		06/09/22 13:09	06/10/22 02:50	1
Antimony	ND		0.020		mg/L		06/09/22 13:09	06/10/22 02:50	1
Arsenic	ND		0.015		mg/L		06/09/22 13:09	06/10/22 02:50	1
Barium	**0.22**		0.0020		mg/L		06/09/22 13:09	06/10/22 02:50	1
Beryllium	ND		0.0020		mg/L		06/09/22 13:09	06/10/22 02:50	1
Boron	ND		0.020		mg/L		06/09/22 13:09	06/10/22 02:50	1
Cadmium	ND		0.0020		mg/L		06/09/22 13:09	06/10/22 02:50	1
Calcium	**50.1**		0.50		mg/L		06/09/22 13:09	06/10/22 02:50	1
Chromium	**0.0068**		0.0040		mg/L		06/09/22 13:09	06/10/22 02:50	1
Cobalt	ND		0.0040		mg/L		06/09/22 13:09	06/10/22 02:50	1
Copper	ND		0.010		mg/L		06/09/22 13:09	06/10/22 02:50	1
Iron	**6.6**		0.050		mg/L		06/09/22 13:09	06/10/22 02:50	1
Lead	ND		0.010		mg/L		06/09/22 13:09	06/10/22 02:50	1
Magnesium	**12.6**		0.20		mg/L		06/09/22 13:09	06/10/22 02:50	1
Manganese	**0.56**		0.0030		mg/L		06/09/22 13:09	06/10/22 02:50	1
Nickel	ND		0.010		mg/L		06/09/22 13:09	06/10/22 02:50	1
Potassium	**2.2**		0.50		mg/L		06/09/22 13:09	06/10/22 02:50	1
Selenium	ND		0.025		mg/L		06/09/22 13:09	06/10/22 02:50	1
Silver	ND		0.0060		mg/L		06/09/22 13:09	06/10/22 02:50	1
Sodium	**5.3**		1.0		mg/L		06/09/22 13:09	06/10/22 02:50	1
Thallium	ND		0.020		mg/L		06/09/22 13:09	06/10/22 02:50	1
Vanadium	**0.0074**		0.0050		mg/L		06/09/22 13:09	06/10/22 02:50	1
Zinc	**0.014**		0.010		mg/L		06/09/22 13:09	06/10/22 15:14	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		06/14/22 09:55	06/15/22 13:22	1
Antimony	ND		0.020		mg/L		06/14/22 09:55	06/15/22 13:22	1
Arsenic	ND		0.015		mg/L		06/14/22 09:55	06/15/22 13:22	1
Barium	**0.15**	**^2**	0.0020		mg/L		06/14/22 09:55	06/15/22 13:22	1
Beryllium	ND		0.0020		mg/L		06/14/22 09:55	06/15/22 13:22	1
Boron	ND		0.020		mg/L		06/14/22 09:55	06/15/22 13:22	1
Cadmium	ND		0.0020		mg/L		06/14/22 09:55	06/15/22 13:22	1
Calcium	**43.4**		0.50		mg/L		06/14/22 09:55	06/15/22 13:22	1
Chromium	ND		0.0040		mg/L		06/14/22 09:55	06/15/22 13:22	1
Cobalt	ND		0.0040		mg/L		06/14/22 09:55	06/15/22 13:22	1
Copper	ND		0.010		mg/L		06/14/22 09:55	06/15/22 13:22	1
Iron	ND		0.050		mg/L		06/14/22 09:55	06/15/22 13:22	1
Lead	ND		0.010		mg/L		06/14/22 09:55	06/15/22 13:22	1
Magnesium	**10.1**		0.20		mg/L		06/14/22 09:55	06/15/22 13:22	1
Manganese	**0.14**		0.0030		mg/L		06/14/22 09:55	06/15/22 13:22	1
Nickel	ND		0.010		mg/L		06/14/22 09:55	06/15/22 13:22	1
Potassium	**0.71**		0.50		mg/L		06/14/22 09:55	06/15/22 13:22	1
Selenium	ND		0.025		mg/L		06/14/22 09:55	06/15/22 13:22	1

Client Sample ID: DUP CD-1RA
Lab Sample ID: 480-198720-4
Date Collected: 06/06/22 12:10
Matrix: Water
Date Received: 06/07/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0060		mg/L		06/14/22 09:55	06/15/22 13:22	1
Sodium	**4.8**		1.0		mg/L		06/14/22 09:55	06/15/22 13:22	1
Thallium	ND		0.020		mg/L		06/14/22 09:55	06/15/22 13:22	1
Zinc	ND		0.010		mg/L		06/14/22 09:55	06/15/22 13:22	1
Vanadium	ND		0.0050		mg/L		06/14/22 09:55	06/15/22 13:22	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/10/22 12:25	06/10/22 16:46	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/14/22 10:39	06/14/22 13:56	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**177**		0.50		mg/L			06/10/22 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			06/14/22 17:53	1
Alkalinity, Total	**144**		20.0		mg/L			06/08/22 16:46	2
Cyanide, Total	ND		0.010		mg/L		06/15/22 15:30	06/15/22 18:38	1
Ammonia	ND		0.020		mg/L			06/08/22 09:02	1
Total Kjeldahl Nitrogen	**0.26**		0.20		mg/L		06/15/22 12:38	06/16/22 08:25	1
Nitrate as N	ND		0.050		mg/L			06/07/22 19:38	1
Chemical Oxygen Demand	ND		10.0		mg/L			06/14/22 18:00	1
Phenolics, Total Recoverable	ND		0.010		mg/L			06/13/22 09:43	1
Chromium, hexavalent	ND		0.010		mg/L			06/07/22 11:00	1
Sulfate	**17.7**		5.0		mg/L			06/09/22 13:51	1
Total Dissolved Solids	**343**		10.0		mg/L			06/09/22 09:41	1
Chloride	**1.8**		1.0		mg/L			06/08/22 23:22	1
Biochemical Oxygen Demand	ND	*+	2.0		mg/L			06/07/22 18:52	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			06/14/22 03:03	1
TOC Result 1	ND		1.0		mg/L			06/14/22 03:03	1
TOC Result 2	ND		1.0		mg/L			06/14/22 03:03	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**5.00**		5.00		Color Units			06/07/22 15:30	1

Client Sample ID: TRIP BLANK 1
Lab Sample ID: 480-198720-5
Date Collected: 06/06/22 00:00
Matrix: Water
Date Received: 06/07/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/12/22 03:38	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/12/22 03:38	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/12/22 03:38	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/12/22 03:38	1
1,1-Dichloroethane	ND		1.0		ug/L			06/12/22 03:38	1
1,1-Dichloroethene	ND		1.0		ug/L			06/12/22 03:38	1

Client Sample ID: TRIP BLANK 1
Lab Sample ID: 480-198720-5

Date Collected: 06/06/22 00:00
Matrix: Water
Date Received: 06/07/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0		ug/L			06/12/22 03:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/12/22 03:38	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/12/22 03:38	1
1,2-Dichloroethane	ND		1.0		ug/L			06/12/22 03:38	1
1,2-Dichloropropane	ND		1.0		ug/L			06/12/22 03:38	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/12/22 03:38	1
2-Butanone (MEK)	ND	*+	10		ug/L			06/12/22 03:38	1
2-Hexanone	ND		5.0		ug/L			06/12/22 03:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			06/12/22 03:38	1
Acetone	ND		10		ug/L			06/12/22 03:38	1
Acrylonitrile	ND		5.0		ug/L			06/12/22 03:38	1
Benzene	ND		1.0		ug/L			06/12/22 03:38	1
Chlorobromomethane	ND		1.0		ug/L			06/12/22 03:38	1
Bromodichloromethane	ND		1.0		ug/L			06/12/22 03:38	1
Bromoform	ND		1.0		ug/L			06/12/22 03:38	1
Bromomethane	ND		1.0		ug/L			06/12/22 03:38	1
Carbon disulfide	ND		1.0		ug/L			06/12/22 03:38	1
Carbon tetrachloride	ND		1.0		ug/L			06/12/22 03:38	1
Chlorobenzene	ND		1.0		ug/L			06/12/22 03:38	1
Dibromochloromethane	ND		1.0		ug/L			06/12/22 03:38	1
Chloroethane	ND		1.0		ug/L			06/12/22 03:38	1
Chloroform	ND		1.0		ug/L			06/12/22 03:38	1
Chloromethane	ND		1.0		ug/L			06/12/22 03:38	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/12/22 03:38	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/12/22 03:38	1
Dibromomethane	ND		1.0		ug/L			06/12/22 03:38	1
Ethylbenzene	ND		1.0		ug/L			06/12/22 03:38	1
1,2-Dibromoethane	ND		1.0		ug/L			06/12/22 03:38	1
Iodomethane	ND		1.0		ug/L			06/12/22 03:38	1
Methylene Chloride	ND		1.0		ug/L			06/12/22 03:38	1
Styrene	ND		1.0		ug/L			06/12/22 03:38	1
Tetrachloroethene	ND		1.0		ug/L			06/12/22 03:38	1
Trichlorofluoromethane	ND		1.0		ug/L			06/12/22 03:38	1
Trichloroethene	ND		1.0		ug/L			06/12/22 03:38	1
Toluene	ND		1.0		ug/L			06/12/22 03:38	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/12/22 03:38	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/12/22 03:38	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			06/12/22 03:38	1
Vinyl acetate	ND		5.0		ug/L			06/12/22 03:38	1
Vinyl chloride	ND		1.0		ug/L			06/12/22 03:38	1
Xylenes, Total	ND		2.0		ug/L			06/12/22 03:38	1
m,p-Xylene	ND		2.0		ug/L			06/12/22 03:38	1
o-Xylene	ND		1.0		ug/L			06/12/22 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*06/12/22 03:38*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*06/12/22 03:38*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*06/12/22 03:38*	*1*

Client Sample ID: CD-1
Date Collected: 06/06/22 13:20
Date Received: 06/07/22 10:00

Lab Sample ID: 480-198722-1
Matrix: Water

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		06/07/22 15:03	06/09/22 00:47	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*33*		*15 - 110*	*06/07/22 15:03*	*06/09/22 00:47*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.4		ng/L		06/13/22 08:55	06/13/22 18:55	1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 18:55	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 18:55	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 18:55	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 18:55	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 18:55	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 18:55	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 18:55	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 18:55	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 18:55	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 18:55	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 18:55	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 18:55	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 18:55	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 18:55	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 18:55	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 18:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4		ng/L		06/13/22 08:55	06/13/22 18:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4		ng/L		06/13/22 08:55	06/13/22 18:55	1
6:2 FTS	ND		4.4		ng/L		06/13/22 08:55	06/13/22 18:55	1
8:2 FTS	ND		1.8		ng/L		06/13/22 08:55	06/13/22 18:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*82*		*50 - 150*	*06/13/22 08:55*	*06/13/22 18:55*	*1*
13C4 PFBA	*111*		*50 - 150*	*06/13/22 08:55*	*06/13/22 18:55*	*1*
13C5 PFPeA	*108*		*50 - 150*	*06/13/22 08:55*	*06/13/22 18:55*	*1*
13C2 PFHxA	*108*		*50 - 150*	*06/13/22 08:55*	*06/13/22 18:55*	*1*
13C4 PFHpA	*104*		*50 - 150*	*06/13/22 08:55*	*06/13/22 18:55*	*1*
13C4 PFOA	*102*		*50 - 150*	*06/13/22 08:55*	*06/13/22 18:55*	*1*
13C5 PFNA	*97*		*50 - 150*	*06/13/22 08:55*	*06/13/22 18:55*	*1*
13C2 PFDA	*89*		*50 - 150*	*06/13/22 08:55*	*06/13/22 18:55*	*1*
13C2 PFUnA	*81*		*50 - 150*	*06/13/22 08:55*	*06/13/22 18:55*	*1*
13C2 PFDoA	*72*		*50 - 150*	*06/13/22 08:55*	*06/13/22 18:55*	*1*
13C2 PFTeDA	*72*		*50 - 150*	*06/13/22 08:55*	*06/13/22 18:55*	*1*
13C3 PFBS	*90*		*50 - 150*	*06/13/22 08:55*	*06/13/22 18:55*	*1*
18O2 PFHxS	*90*		*50 - 150*	*06/13/22 08:55*	*06/13/22 18:55*	*1*
13C4 PFOS	*80*		*50 - 150*	*06/13/22 08:55*	*06/13/22 18:55*	*1*
d3-NMeFOSAA	*104*		*50 - 150*	*06/13/22 08:55*	*06/13/22 18:55*	*1*
d5-NEtFOSAA	*99*		*50 - 150*	*06/13/22 08:55*	*06/13/22 18:55*	*1*
M2-6:2 FTS	*91*		*50 - 150*	*06/13/22 08:55*	*06/13/22 18:55*	*1*
M2-8:2 FTS	*88*		*50 - 150*	*06/13/22 08:55*	*06/13/22 18:55*	*1*

Client Sample ID: CD-1RA

Date Collected: 06/06/22 12:40
Date Received: 06/07/22 10:00

Lab Sample ID: 480-198722-2

Matrix: Water

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		06/07/22 15:03	06/09/22 01:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*36*		*15 - 110*	*06/07/22 15:03*	*06/09/22 01:09*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.7		ng/L		06/13/22 08:55	06/13/22 19:03	1
Perfluoropentanoic acid (PFPeA)	ND		1.9		ng/L		06/13/22 08:55	06/13/22 19:03	1
Perfluorohexanoic acid (PFHxA)	ND		1.9		ng/L		06/13/22 08:55	06/13/22 19:03	1
Perfluoroheptanoic acid (PFHpA)	ND		1.9		ng/L		06/13/22 08:55	06/13/22 19:03	1
Perfluorooctanoic acid (PFOA)	ND		1.9		ng/L		06/13/22 08:55	06/13/22 19:03	1
Perfluorononanoic acid (PFNA)	ND		1.9		ng/L		06/13/22 08:55	06/13/22 19:03	1
Perfluorodecanoic acid (PFDA)	ND		1.9		ng/L		06/13/22 08:55	06/13/22 19:03	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9		ng/L		06/13/22 08:55	06/13/22 19:03	1
Perfluorododecanoic acid (PFDoA)	ND		1.9		ng/L		06/13/22 08:55	06/13/22 19:03	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9		ng/L		06/13/22 08:55	06/13/22 19:03	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9		ng/L		06/13/22 08:55	06/13/22 19:03	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9		ng/L		06/13/22 08:55	06/13/22 19:03	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9		ng/L		06/13/22 08:55	06/13/22 19:03	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9		ng/L		06/13/22 08:55	06/13/22 19:03	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9		ng/L		06/13/22 08:55	06/13/22 19:03	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9		ng/L		06/13/22 08:55	06/13/22 19:03	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9		ng/L		06/13/22 08:55	06/13/22 19:03	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.7		ng/L		06/13/22 08:55	06/13/22 19:03	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.7		ng/L		06/13/22 08:55	06/13/22 19:03	1
6:2 FTS	ND		4.7		ng/L		06/13/22 08:55	06/13/22 19:03	1
8:2 FTS	ND		1.9		ng/L		06/13/22 08:55	06/13/22 19:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*77*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:03*	*1*
13C4 PFBA	*106*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:03*	*1*
13C5 PFPeA	*105*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:03*	*1*
13C2 PFHxA	*99*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:03*	*1*
13C4 PFHpA	*100*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:03*	*1*
13C4 PFOA	*100*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:03*	*1*
13C5 PFNA	*85*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:03*	*1*
13C2 PFDA	*82*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:03*	*1*
13C2 PFUnA	*76*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:03*	*1*
13C2 PFDoA	*70*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:03*	*1*
13C2 PFTeDA	*73*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:03*	*1*
13C3 PFBS	*91*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:03*	*1*
18O2 PFHxS	*88*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:03*	*1*
13C4 PFOS	*76*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:03*	*1*
d3-NMeFOSAA	*98*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:03*	*1*
d5-NEtFOSAA	*101*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:03*	*1*
M2-6:2 FTS	*87*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:03*	*1*
M2-8:2 FTS	*86*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:03*	*1*

Client Sample ID: MW-1B
Date Collected: 06/06/22 14:40
Date Received: 06/07/22 10:00

Lab Sample ID: 480-198722-3
Matrix: Water

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		06/07/22 15:03	06/09/22 01:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*35*		*15 - 110*	*06/07/22 15:03*	*06/09/22 01:31*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.5		ng/L		06/13/22 08:55	06/13/22 19:11	1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:11	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:11	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:11	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:11	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:11	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:11	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:11	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:11	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:11	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:11	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:11	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:11	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:11	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:11	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:11	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5		ng/L		06/13/22 08:55	06/13/22 19:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5		ng/L		06/13/22 08:55	06/13/22 19:11	1
6:2 FTS	ND		4.5		ng/L		06/13/22 08:55	06/13/22 19:11	1
8:2 FTS	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:11	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*83*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:11*	*1*
13C4 PFBA	*104*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:11*	*1*
13C5 PFPeA	*104*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:11*	*1*
13C2 PFHxA	*100*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:11*	*1*
13C4 PFHpA	*106*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:11*	*1*
13C4 PFOA	*97*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:11*	*1*
13C5 PFNA	*88*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:11*	*1*
13C2 PFDA	*88*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:11*	*1*
13C2 PFUnA	*82*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:11*	*1*
13C2 PFDoA	*77*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:11*	*1*
13C2 PFTeDA	*78*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:11*	*1*
13C3 PFBS	*91*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:11*	*1*
18O2 PFHxS	*89*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:11*	*1*
13C4 PFOS	*81*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:11*	*1*
d3-NMeFOSAA	*108*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:11*	*1*
d5-NEtFOSAA	*109*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:11*	*1*
M2-6:2 FTS	*90*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:11*	*1*
M2-8:2 FTS	*89*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:11*	*1*

Client Sample ID: MW-1A
Date Collected: 06/08/22 10:15
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/15/22 22:08	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/15/22 22:08	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/15/22 22:08	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/15/22 22:08	1
1,1-Dichloroethane	ND		1.0		ug/L			06/15/22 22:08	1
1,1-Dichloroethene	ND		1.0		ug/L			06/15/22 22:08	1
1,2,3-Trichloropropane	ND		1.0		ug/L			06/15/22 22:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/15/22 22:08	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/15/22 22:08	1
1,2-Dichloroethane	ND		1.0		ug/L			06/15/22 22:08	1
1,2-Dichloropropane	ND		1.0		ug/L			06/15/22 22:08	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/15/22 22:08	1
2-Butanone (MEK)	ND		10		ug/L			06/15/22 22:08	1
2-Hexanone	ND		5.0		ug/L			06/15/22 22:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			06/15/22 22:08	1
Acetone	ND		10		ug/L			06/15/22 22:08	1
Acrylonitrile	ND		5.0		ug/L			06/15/22 22:08	1
Benzene	ND		1.0		ug/L			06/15/22 22:08	1
Chlorobromomethane	ND		1.0		ug/L			06/15/22 22:08	1
Bromodichloromethane	ND		1.0		ug/L			06/15/22 22:08	1
Bromoform	ND		1.0		ug/L			06/15/22 22:08	1
Bromomethane	ND		1.0		ug/L			06/15/22 22:08	1
Carbon disulfide	ND		1.0		ug/L			06/15/22 22:08	1
Carbon tetrachloride	ND		1.0		ug/L			06/15/22 22:08	1
Chlorobenzene	ND		1.0		ug/L			06/15/22 22:08	1
Dibromochloromethane	ND		1.0		ug/L			06/15/22 22:08	1
Chloroethane	ND		1.0		ug/L			06/15/22 22:08	1
Chloroform	ND		1.0		ug/L			06/15/22 22:08	1
Chloromethane	ND		1.0		ug/L			06/15/22 22:08	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/15/22 22:08	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/15/22 22:08	1
Dibromomethane	ND		1.0		ug/L			06/15/22 22:08	1
Ethylbenzene	ND		1.0		ug/L			06/15/22 22:08	1
1,2-Dibromoethane	ND		1.0		ug/L			06/15/22 22:08	1
Iodomethane	ND		1.0		ug/L			06/15/22 22:08	1
Methylene Chloride	ND		1.0		ug/L			06/15/22 22:08	1
Styrene	ND		1.0		ug/L			06/15/22 22:08	1
Tetrachloroethene	ND		1.0		ug/L			06/15/22 22:08	1
Trichlorofluoromethane	ND		1.0		ug/L			06/15/22 22:08	1
Trichloroethene	ND		1.0		ug/L			06/15/22 22:08	1
Toluene	ND		1.0		ug/L			06/15/22 22:08	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/15/22 22:08	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/15/22 22:08	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			06/15/22 22:08	1
Vinyl acetate	ND		5.0		ug/L			06/15/22 22:08	1
Vinyl chloride	ND		1.0		ug/L			06/15/22 22:08	1
Xylenes, Total	ND		2.0		ug/L			06/15/22 22:08	1
m,p-Xylene	ND		2.0		ug/L			06/15/22 22:08	1
o-Xylene	ND		1.0		ug/L			06/15/22 22:08	1

Client Sample ID: MW-1A

Date Collected: 06/08/22 10:15
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*82*		*77 - 120*		*06/15/22 22:08*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*06/15/22 22:08*	*1*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*06/15/22 22:08*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.39**		0.20		mg/L		06/13/22 08:21	06/13/22 19:26	1
Antimony	ND		0.020		mg/L		06/13/22 08:21	06/13/22 19:26	1
Arsenic	ND		0.015		mg/L		06/13/22 08:21	06/13/22 19:26	1
Barium	**0.068**		0.0020		mg/L		06/13/22 08:21	06/13/22 19:26	1
Beryllium	ND		0.0020		mg/L		06/13/22 08:21	06/13/22 19:26	1
Boron	**0.020**		0.020		mg/L		06/13/22 08:21	06/13/22 19:26	1
Cadmium	ND		0.0020		mg/L		06/13/22 08:21	06/13/22 19:26	1
Calcium	**45.8**		0.50		mg/L		06/13/22 08:21	06/13/22 19:26	1
Chromium	ND		0.0040		mg/L		06/13/22 08:21	06/13/22 19:26	1
Cobalt	ND		0.0040		mg/L		06/13/22 08:21	06/13/22 19:26	1
Copper	ND		0.010		mg/L		06/13/22 08:21	06/13/22 19:26	1
Iron	**0.37**		0.050		mg/L		06/13/22 08:21	06/13/22 19:26	1
Lead	ND		0.010		mg/L		06/13/22 08:21	06/13/22 19:26	1
Magnesium	**10.6**		0.20		mg/L		06/13/22 08:21	06/13/22 19:26	1
Manganese	**0.038**		0.0030		mg/L		06/13/22 08:21	06/13/22 19:26	1
Nickel	ND		0.010		mg/L		06/13/22 08:21	06/13/22 19:26	1
Potassium	**0.96**		0.50		mg/L		06/13/22 08:21	06/13/22 19:26	1
Selenium	ND		0.025		mg/L		06/13/22 08:21	06/13/22 19:26	1
Silver	ND		0.0060		mg/L		06/13/22 08:21	06/13/22 19:26	1
Sodium	**11.1**		1.0		mg/L		06/13/22 08:21	06/13/22 19:26	1
Thallium	ND		0.020		mg/L		06/13/22 08:21	06/13/22 19:26	1
Vanadium	ND		0.0050		mg/L		06/13/22 08:21	06/13/22 19:26	1
Zinc	ND		0.010		mg/L		06/13/22 08:21	06/13/22 19:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/13/22 10:37	06/13/22 14:32	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**158**		0.50		mg/L			06/16/22 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			06/15/22 21:28	1
Alkalinity, Total	**149**		30.0		mg/L			06/21/22 12:37	3
Cyanide, Total	ND		0.010		mg/L		06/16/22 21:15	06/17/22 09:08	1
Ammonia	**0.021**		0.020		mg/L			06/10/22 08:58	1
Total Kjeldahl Nitrogen	ND		0.20		mg/L		06/13/22 12:10	06/14/22 08:59	1
Nitrate as N	ND		0.050		mg/L			06/09/22 20:10	1
Chemical Oxygen Demand	ND		10.0		mg/L			06/14/22 18:00	1
Phenolics, Total Recoverable	ND		0.010		mg/L			06/13/22 11:29	1
Chromium, hexavalent	ND		0.010		mg/L			06/09/22 10:15	1
Sulfate	**18.3**		5.0		mg/L			06/09/22 14:56	1
Total Dissolved Solids	**227**		10.0		mg/L			06/10/22 09:23	1

Client Sample ID: MW-1A
Lab Sample ID: 480-198813-1

Date Collected: 06/08/22 10:15
Matrix: Water
Date Received: 06/09/22 09:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**35.1**		1.0		mg/L			06/26/22 14:10	1
Biochemical Oxygen Demand	ND		2.0		mg/L			06/09/22 15:30	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			06/15/22 12:32	1
TOC Result 1	ND		1.0		mg/L			06/15/22 12:32	1
TOC Result 2	ND	*+	1.0		mg/L			06/15/22 12:32	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**10.0**	**^-**	5.00		Color Units			06/09/22 15:30	1

Client Sample ID: MW-2A
Lab Sample ID: 480-198813-2

Date Collected: 06/08/22 10:45
Matrix: Water
Date Received: 06/09/22 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/15/22 22:31	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/15/22 22:31	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/15/22 22:31	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/15/22 22:31	1
1,1-Dichloroethane	ND		1.0		ug/L			06/15/22 22:31	1
1,1-Dichloroethene	ND		1.0		ug/L			06/15/22 22:31	1
1,2,3-Trichloropropane	ND		1.0		ug/L			06/15/22 22:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/15/22 22:31	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/15/22 22:31	1
1,2-Dichloroethane	ND		1.0		ug/L			06/15/22 22:31	1
1,2-Dichloropropane	ND		1.0		ug/L			06/15/22 22:31	1
1,4-Dichlorobenzene	**1.1**		1.0		ug/L			06/15/22 22:31	1
2-Butanone (MEK)	ND		10		ug/L			06/15/22 22:31	1
2-Hexanone	ND		5.0		ug/L			06/15/22 22:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			06/15/22 22:31	1
Acetone	ND		10		ug/L			06/15/22 22:31	1
Acrylonitrile	ND		5.0		ug/L			06/15/22 22:31	1
Benzene	ND		1.0		ug/L			06/15/22 22:31	1
Chlorobromomethane	ND		1.0		ug/L			06/15/22 22:31	1
Bromodichloromethane	ND		1.0		ug/L			06/15/22 22:31	1
Bromoform	ND		1.0		ug/L			06/15/22 22:31	1
Bromomethane	ND		1.0		ug/L			06/15/22 22:31	1
Carbon disulfide	ND		1.0		ug/L			06/15/22 22:31	1
Carbon tetrachloride	ND		1.0		ug/L			06/15/22 22:31	1
Chlorobenzene	**1.7**		1.0		ug/L			06/15/22 22:31	1
Dibromochloromethane	ND		1.0		ug/L			06/15/22 22:31	1
Chloroethane	ND		1.0		ug/L			06/15/22 22:31	1
Chloroform	ND		1.0		ug/L			06/15/22 22:31	1
Chloromethane	ND		1.0		ug/L			06/15/22 22:31	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/15/22 22:31	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/15/22 22:31	1
Dibromomethane	ND		1.0		ug/L			06/15/22 22:31	1
Ethylbenzene	ND		1.0		ug/L			06/15/22 22:31	1
1,2-Dibromoethane	ND		1.0		ug/L			06/15/22 22:31	1
Iodomethane	ND		1.0		ug/L			06/15/22 22:31	1
Methylene Chloride	ND		1.0		ug/L			06/15/22 22:31	1

Client Sample ID: MW-2A

Date Collected: 06/08/22 10:45
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0		ug/L			06/15/22 22:31	1
Tetrachloroethene	ND		1.0		ug/L			06/15/22 22:31	1
Trichlorofluoromethane	ND		1.0		ug/L			06/15/22 22:31	1
Trichloroethene	ND		1.0		ug/L			06/15/22 22:31	1
Toluene	ND		1.0		ug/L			06/15/22 22:31	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/15/22 22:31	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/15/22 22:31	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			06/15/22 22:31	1
Vinyl acetate	ND		5.0		ug/L			06/15/22 22:31	1
Vinyl chloride	ND		1.0		ug/L			06/15/22 22:31	1
Xylenes, Total	ND		2.0		ug/L			06/15/22 22:31	1
m,p-Xylene	ND		2.0		ug/L			06/15/22 22:31	1
o-Xylene	ND		1.0		ug/L			06/15/22 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*77 - 120*		*06/15/22 22:31*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/15/22 22:31*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*06/15/22 22:31*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5.4**		0.20		mg/L		06/13/22 08:21	06/13/22 19:30	1
Antimony	ND		0.020		mg/L		06/13/22 08:21	06/13/22 19:30	1
Arsenic	ND		0.015		mg/L		06/13/22 08:21	06/13/22 19:30	1
Barium	**0.50**		0.0020		mg/L		06/13/22 08:21	06/13/22 19:30	1
Beryllium	ND		0.0020		mg/L		06/13/22 08:21	06/13/22 19:30	1
Boron	**0.21**		0.020		mg/L		06/13/22 08:21	06/13/22 19:30	1
Cadmium	ND		0.0020		mg/L		06/13/22 08:21	06/13/22 19:30	1
Calcium	**75.8**		0.50		mg/L		06/13/22 08:21	06/13/22 19:30	1
Chromium	**0.0080**		0.0040		mg/L		06/13/22 08:21	06/13/22 19:30	1
Cobalt	**0.0050**		0.0040		mg/L		06/13/22 08:21	06/13/22 19:30	1
Copper	**0.010**		0.010		mg/L		06/13/22 08:21	06/13/22 19:30	1
Iron	**9.7**		0.050		mg/L		06/13/22 08:21	06/13/22 19:30	1
Lead	ND		0.010		mg/L		06/13/22 08:21	06/13/22 19:30	1
Magnesium	**17.1**		0.20		mg/L		06/13/22 08:21	06/13/22 19:30	1
Manganese	**10.6**		0.0030		mg/L		06/13/22 08:21	06/13/22 19:30	1
Nickel	**0.010**		0.010		mg/L		06/13/22 08:21	06/13/22 19:30	1
Potassium	**9.8**		0.50		mg/L		06/13/22 08:21	06/13/22 19:30	1
Selenium	ND		0.025		mg/L		06/13/22 08:21	06/13/22 19:30	1
Silver	ND		0.0060		mg/L		06/13/22 08:21	06/13/22 19:30	1
Sodium	**12.7**		1.0		mg/L		06/13/22 08:21	06/13/22 19:30	1
Thallium	ND		0.020		mg/L		06/13/22 08:21	06/13/22 19:30	1
Vanadium	**0.0094**		0.0050		mg/L		06/13/22 08:21	06/13/22 19:30	1
Zinc	**0.017**		0.010		mg/L		06/13/22 08:21	06/13/22 19:30	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		06/14/22 09:55	06/15/22 13:38	1
Antimony	ND		0.020		mg/L		06/14/22 09:55	06/15/22 13:38	1
Arsenic	ND		0.015		mg/L		06/14/22 09:55	06/15/22 13:38	1

Client Sample ID: MW-2A

Date Collected: 06/08/22 10:45
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.47**		0.0020		mg/L		06/14/22 09:55	06/15/22 13:38	1
Beryllium	ND		0.0020		mg/L		06/14/22 09:55	06/15/22 13:38	1
Boron	**0.23**		0.020		mg/L		06/14/22 09:55	06/15/22 13:38	1
Cadmium	ND		0.0020		mg/L		06/14/22 09:55	06/15/22 13:38	1
Calcium	**96.8**		0.50		mg/L		06/14/22 09:55	06/15/22 13:38	1
Chromium	ND		0.0040		mg/L		06/14/22 09:55	06/15/22 13:38	1
Cobalt	ND		0.0040		mg/L		06/14/22 09:55	06/15/22 13:38	1
Copper	ND		0.010		mg/L		06/14/22 09:55	06/15/22 13:38	1
Iron	ND		0.050		mg/L		06/14/22 09:55	06/15/22 13:38	1
Lead	ND		0.010		mg/L		06/14/22 09:55	06/15/22 13:38	1
Magnesium	**19.7**		0.20		mg/L		06/14/22 09:55	06/15/22 13:38	1
Manganese	**12.2**		0.0030		mg/L		06/14/22 09:55	06/15/22 13:38	1
Nickel	ND		0.010		mg/L		06/14/22 09:55	06/15/22 13:38	1
Potassium	**9.9**		0.50		mg/L		06/14/22 09:55	06/15/22 13:38	1
Selenium	ND		0.025		mg/L		06/14/22 09:55	06/15/22 13:38	1
Silver	ND		0.0060		mg/L		06/14/22 09:55	06/15/22 13:38	1
Sodium	**15.3**		1.0		mg/L		06/14/22 09:55	06/15/22 13:38	1
Thallium	ND		0.020		mg/L		06/14/22 09:55	06/15/22 13:38	1
Zinc	ND		0.010		mg/L		06/14/22 09:55	06/15/22 13:38	1
Vanadium	ND		0.0050		mg/L		06/14/22 09:55	06/15/22 13:38	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/13/22 10:37	06/13/22 14:38	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/14/22 10:39	06/14/22 14:02	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**260**		0.50		mg/L			06/16/22 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**0.95**		0.40		mg/L			06/15/22 21:42	2
Alkalinity, Total	**378**		50.0		mg/L			06/21/22 12:37	5
Cyanide, Total	ND		0.010		mg/L		06/16/22 21:15	06/17/22 09:09	1
Ammonia	**7.8**		0.10		mg/L			06/10/22 09:00	5
Total Kjeldahl Nitrogen	**9.4**		0.40		mg/L		06/13/22 12:10	06/14/22 10:24	2
Nitrate as N	**0.25**		0.050		mg/L			06/09/22 20:11	1
Chemical Oxygen Demand	**18.9**		10.0		mg/L			06/14/22 18:00	1
Phenolics, Total Recoverable	ND		0.010		mg/L			06/13/22 11:33	1
Chromium, hexavalent	ND		0.010		mg/L			06/09/22 10:15	1
Sulfate	ND		5.0		mg/L			06/09/22 14:57	1
Total Dissolved Solids	**329**		10.0		mg/L			06/10/22 09:23	1
Chloride	**19.3**		1.0		mg/L			06/26/22 14:49	1
Biochemical Oxygen Demand	ND		2.0		mg/L			06/09/22 15:30	1
Total Organic Carbon - Duplicates	**6.5**		1.0		mg/L			06/22/22 23:36	1
TOC Result 1	**6.5**		1.0		mg/L			06/22/22 23:36	1

Client Sample ID: MW-2A
Lab Sample ID: 480-198813-2

Date Collected: 06/08/22 10:45
Matrix: Water
Date Received: 06/09/22 09:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 2	**6.5**		1.0		mg/L			06/22/22 23:36	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**10.0**	**^-**	5.00		Color Units			06/09/22 15:30	1

Client Sample ID: MW-2B
Lab Sample ID: 480-198813-3

Date Collected: 06/08/22 11:15
Matrix: Water
Date Received: 06/09/22 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/15/22 22:55	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/15/22 22:55	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/15/22 22:55	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/15/22 22:55	1
1,1-Dichloroethane	ND		1.0		ug/L			06/15/22 22:55	1
1,1-Dichloroethene	ND		1.0		ug/L			06/15/22 22:55	1
1,2,3-Trichloropropane	ND		1.0		ug/L			06/15/22 22:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/15/22 22:55	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/15/22 22:55	1
1,2-Dichloroethane	ND		1.0		ug/L			06/15/22 22:55	1
1,2-Dichloropropane	ND		1.0		ug/L			06/15/22 22:55	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/15/22 22:55	1
2-Butanone (MEK)	ND		10		ug/L			06/15/22 22:55	1
2-Hexanone	ND		5.0		ug/L			06/15/22 22:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			06/15/22 22:55	1
Acetone	ND		10		ug/L			06/15/22 22:55	1
Acrylonitrile	ND		5.0		ug/L			06/15/22 22:55	1
Benzene	ND		1.0		ug/L			06/15/22 22:55	1
Chlorobromomethane	ND		1.0		ug/L			06/15/22 22:55	1
Bromodichloromethane	ND		1.0		ug/L			06/15/22 22:55	1
Bromoform	ND		1.0		ug/L			06/15/22 22:55	1
Bromomethane	ND		1.0		ug/L			06/15/22 22:55	1
Carbon disulfide	ND		1.0		ug/L			06/15/22 22:55	1
Carbon tetrachloride	ND		1.0		ug/L			06/15/22 22:55	1
Chlorobenzene	ND		1.0		ug/L			06/15/22 22:55	1
Dibromochloromethane	ND		1.0		ug/L			06/15/22 22:55	1
Chloroethane	**3.9**		1.0		ug/L			06/15/22 22:55	1
Chloroform	ND		1.0		ug/L			06/15/22 22:55	1
Chloromethane	ND		1.0		ug/L			06/15/22 22:55	1
cis-1,2-Dichloroethene	**40**		1.0		ug/L			06/15/22 22:55	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/15/22 22:55	1
Dibromomethane	ND		1.0		ug/L			06/15/22 22:55	1
Ethylbenzene	ND		1.0		ug/L			06/15/22 22:55	1
1,2-Dibromoethane	ND		1.0		ug/L			06/15/22 22:55	1
Iodomethane	ND		1.0		ug/L			06/15/22 22:55	1
Methylene Chloride	ND		1.0		ug/L			06/15/22 22:55	1
Styrene	ND		1.0		ug/L			06/15/22 22:55	1
Tetrachloroethene	ND		1.0		ug/L			06/15/22 22:55	1
Trichlorofluoromethane	ND		1.0		ug/L			06/15/22 22:55	1
Trichloroethene	ND		1.0		ug/L			06/15/22 22:55	1

Client Sample ID: MW-2B
Date Collected: 06/08/22 11:15
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0		ug/L			06/15/22 22:55	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/15/22 22:55	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/15/22 22:55	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			06/15/22 22:55	1
Vinyl acetate	ND		5.0		ug/L			06/15/22 22:55	1
Vinyl chloride	**19**		1.0		ug/L			06/15/22 22:55	1
Xylenes, Total	ND		2.0		ug/L			06/15/22 22:55	1
m,p-Xylene	ND		2.0		ug/L			06/15/22 22:55	1
o-Xylene	ND		1.0		ug/L			06/15/22 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*77 - 120*		*06/15/22 22:55*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*06/15/22 22:55*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*06/15/22 22:55*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.31**		0.20		mg/L		06/13/22 08:21	06/13/22 19:34	1
Antimony	ND		0.020		mg/L		06/13/22 08:21	06/13/22 19:34	1
Arsenic	ND		0.015		mg/L		06/13/22 08:21	06/13/22 19:34	1
Barium	**1.0**		0.0020		mg/L		06/13/22 08:21	06/13/22 19:34	1
Beryllium	ND		0.0020		mg/L		06/13/22 08:21	06/13/22 19:34	1
Boron	**0.17**		0.020		mg/L		06/13/22 08:21	06/13/22 19:34	1
Cadmium	ND		0.0020		mg/L		06/13/22 08:21	06/13/22 19:34	1
Calcium	**166**		0.50		mg/L		06/13/22 08:21	06/13/22 19:34	1
Chromium	ND		0.0040		mg/L		06/13/22 08:21	06/13/22 19:34	1
Cobalt	ND		0.0040		mg/L		06/13/22 08:21	06/13/22 19:34	1
Copper	ND		0.010		mg/L		06/13/22 08:21	06/13/22 19:34	1
Iron	**0.51**		0.050		mg/L		06/13/22 08:21	06/13/22 19:34	1
Lead	ND		0.010		mg/L		06/13/22 08:21	06/13/22 19:34	1
Magnesium	**36.1**		0.20		mg/L		06/13/22 08:21	06/13/22 19:34	1
Manganese	**4.6**		0.0030		mg/L		06/13/22 08:21	06/13/22 19:34	1
Nickel	ND		0.010		mg/L		06/13/22 08:21	06/13/22 19:34	1
Potassium	**1.9**		0.50		mg/L		06/13/22 08:21	06/13/22 19:34	1
Selenium	ND		0.025		mg/L		06/13/22 08:21	06/13/22 19:34	1
Silver	ND		0.0060		mg/L		06/13/22 08:21	06/13/22 19:34	1
Sodium	**37.0**		1.0		mg/L		06/13/22 08:21	06/13/22 19:34	1
Thallium	ND		0.020		mg/L		06/13/22 08:21	06/13/22 19:34	1
Vanadium	ND		0.0050		mg/L		06/13/22 08:21	06/13/22 19:34	1
Zinc	**0.012**		0.010		mg/L		06/13/22 08:21	06/13/22 19:34	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/13/22 10:37	06/13/22 14:42	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**563**		0.50		mg/L			06/16/22 14:01	1

Client Sample ID: MW-2B

Date Collected: 06/08/22 11:15
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-3

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**1.5**		0.40		mg/L			06/15/22 21:56	2
Alkalinity, Total	**650**		100		mg/L			06/21/22 12:38	10
Cyanide, Total	ND		0.010		mg/L		06/16/22 21:15	06/17/22 09:10	1
Ammonia	**0.53**		0.020		mg/L			06/10/22 10:04	1
Total Kjeldahl Nitrogen	**1.4**		0.20		mg/L		06/13/22 12:10	06/14/22 08:59	1
Nitrate as N	ND		0.050		mg/L			06/09/22 20:12	1
Chemical Oxygen Demand	**19.9**		10.0		mg/L			06/14/22 18:00	1
Phenolics, Total Recoverable	ND		0.010		mg/L			06/13/22 11:36	1
Chromium, hexavalent	ND		0.010		mg/L			06/09/22 10:15	1
Sulfate	ND		5.0		mg/L			06/09/22 14:57	1
Total Dissolved Solids	**722**		10.0		mg/L			06/10/22 09:23	1
Chloride	**75.3**	**F1**	1.0		mg/L			06/26/22 14:11	1
Biochemical Oxygen Demand	ND		2.0		mg/L			06/09/22 15:30	1
Total Organic Carbon - Duplicates	**4.0**		1.0		mg/L			06/22/22 23:53	1
TOC Result 1	**3.9**		1.0		mg/L			06/22/22 23:53	1
TOC Result 2	**4.1**		1.0		mg/L			06/22/22 23:53	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**10.0**	**^-**	5.00		Color Units			06/09/22 15:30	1

Client Sample ID: MW-3A

Date Collected: 06/08/22 08:30
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/15/22 23:18	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/15/22 23:18	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/15/22 23:18	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/15/22 23:18	1
1,1-Dichloroethane	ND		1.0		ug/L			06/15/22 23:18	1
1,1-Dichloroethene	ND		1.0		ug/L			06/15/22 23:18	1
1,2,3-Trichloropropane	ND		1.0		ug/L			06/15/22 23:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/15/22 23:18	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/15/22 23:18	1
1,2-Dichloroethane	ND		1.0		ug/L			06/15/22 23:18	1
1,2-Dichloropropane	ND		1.0		ug/L			06/15/22 23:18	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/15/22 23:18	1
2-Butanone (MEK)	ND		10		ug/L			06/15/22 23:18	1
2-Hexanone	ND		5.0		ug/L			06/15/22 23:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			06/15/22 23:18	1
Acetone	ND		10		ug/L			06/15/22 23:18	1
Acrylonitrile	ND		5.0		ug/L			06/15/22 23:18	1
Benzene	ND		1.0		ug/L			06/15/22 23:18	1
Chlorobromomethane	ND		1.0		ug/L			06/15/22 23:18	1
Bromodichloromethane	ND		1.0		ug/L			06/15/22 23:18	1
Bromoform	ND		1.0		ug/L			06/15/22 23:18	1
Bromomethane	ND		1.0		ug/L			06/15/22 23:18	1
Carbon disulfide	ND		1.0		ug/L			06/15/22 23:18	1
Carbon tetrachloride	ND		1.0		ug/L			06/15/22 23:18	1
Chlorobenzene	ND		1.0		ug/L			06/15/22 23:18	1

Client Sample ID: MW-3A

Date Collected: 06/08/22 08:30
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		1.0		ug/L			06/15/22 23:18	1
Chloroethane	ND		1.0		ug/L			06/15/22 23:18	1
Chloroform	ND		1.0		ug/L			06/15/22 23:18	1
Chloromethane	ND		1.0		ug/L			06/15/22 23:18	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/15/22 23:18	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/15/22 23:18	1
Dibromomethane	ND		1.0		ug/L			06/15/22 23:18	1
Ethylbenzene	ND		1.0		ug/L			06/15/22 23:18	1
1,2-Dibromoethane	ND		1.0		ug/L			06/15/22 23:18	1
Iodomethane	ND		1.0		ug/L			06/15/22 23:18	1
Methylene Chloride	ND		1.0		ug/L			06/15/22 23:18	1
Styrene	ND		1.0		ug/L			06/15/22 23:18	1
Tetrachloroethene	ND		1.0		ug/L			06/15/22 23:18	1
Trichlorofluoromethane	ND		1.0		ug/L			06/15/22 23:18	1
Trichloroethene	ND		1.0		ug/L			06/15/22 23:18	1
Toluene	ND		1.0		ug/L			06/15/22 23:18	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/15/22 23:18	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/15/22 23:18	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			06/15/22 23:18	1
Vinyl acetate	ND		5.0		ug/L			06/15/22 23:18	1
Vinyl chloride	ND		1.0		ug/L			06/15/22 23:18	1
Xylenes, Total	ND		2.0		ug/L			06/15/22 23:18	1
m,p-Xylene	ND		2.0		ug/L			06/15/22 23:18	1
o-Xylene	ND		1.0		ug/L			06/15/22 23:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*77 - 120*		*06/15/22 23:18*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/15/22 23:18*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*06/15/22 23:18*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.38**		0.20		mg/L		06/13/22 08:21	06/13/22 20:05	1
Antimony	ND		0.020		mg/L		06/13/22 08:21	06/13/22 20:05	1
Arsenic	ND		0.015		mg/L		06/13/22 08:21	06/13/22 20:05	1
Barium	**0.37**		0.0020		mg/L		06/13/22 08:21	06/13/22 20:05	1
Beryllium	ND		0.0020		mg/L		06/13/22 08:21	06/13/22 20:05	1
Boron	ND		0.020		mg/L		06/13/22 08:21	06/13/22 20:05	1
Cadmium	ND		0.0020		mg/L		06/13/22 08:21	06/13/22 20:05	1
Calcium	**48.0**		0.50		mg/L		06/13/22 08:21	06/13/22 20:05	1
Chromium	ND		0.0040		mg/L		06/13/22 08:21	06/13/22 20:05	1
Cobalt	ND		0.0040		mg/L		06/13/22 08:21	06/13/22 20:05	1
Copper	ND		0.010		mg/L		06/13/22 08:21	06/13/22 20:05	1
Iron	**0.39**		0.050		mg/L		06/13/22 08:21	06/13/22 20:05	1
Lead	ND		0.010		mg/L		06/13/22 08:21	06/13/22 20:05	1
Magnesium	**10.0**		0.20		mg/L		06/13/22 08:21	06/13/22 20:05	1
Manganese	**0.31**		0.0030		mg/L		06/13/22 08:21	06/13/22 20:05	1
Nickel	ND		0.010		mg/L		06/13/22 08:21	06/13/22 20:05	1
Potassium	**1.3**		0.50		mg/L		06/13/22 08:21	06/13/22 20:05	1
Selenium	ND		0.025		mg/L		06/13/22 08:21	06/13/22 20:05	1

Client Sample ID: MW-3A

Date Collected: 06/08/22 08:30
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0060		mg/L		06/13/22 08:21	06/13/22 20:05	1
Sodium	**5.6**		1.0		mg/L		06/13/22 08:21	06/13/22 20:05	1
Thallium	ND		0.020		mg/L		06/13/22 08:21	06/13/22 20:05	1
Vanadium	ND		0.0050		mg/L		06/13/22 08:21	06/13/22 20:05	1
Zinc	ND		0.010		mg/L		06/13/22 08:21	06/13/22 20:05	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/13/22 10:37	06/13/22 14:43	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**161**		0.50		mg/L			06/16/22 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			06/15/22 22:11	1
Alkalinity, Total	**191**		20.0		mg/L			06/21/22 13:20	2
Cyanide, Total	ND		0.010		mg/L		06/16/22 21:15	06/17/22 09:12	1
Ammonia	**0.065**		0.020		mg/L			06/10/22 09:02	1
Total Kjeldahl Nitrogen	**0.78**		0.20		mg/L		06/13/22 12:10	06/14/22 08:59	1
Nitrate as N	**0.057**		0.050		mg/L			06/09/22 20:07	1
Chemical Oxygen Demand	ND		10.0		mg/L			06/14/22 18:00	1
Phenolics, Total Recoverable	ND		0.010		mg/L			06/13/22 11:40	1
Chromium, hexavalent	ND	H H3	0.010		mg/L			06/09/22 10:15	1
Sulfate	ND		5.0		mg/L			06/09/22 14:57	1
Total Dissolved Solids	**195**		10.0		mg/L			06/10/22 09:23	1
Chloride	**3.9**		1.0		mg/L			06/26/22 14:50	1
Biochemical Oxygen Demand	ND		2.0		mg/L			06/09/22 15:30	1
Total Organic Carbon - Duplicates	**1.5**		1.0		mg/L			06/23/22 02:17	1
TOC Result 1	**1.5**		1.0		mg/L			06/23/22 02:17	1
TOC Result 2	**1.5**		1.0		mg/L			06/23/22 02:17	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**15.0**	**^-**	5.00		Color Units			06/09/22 15:30	1

Client Sample ID: MW-3B

Date Collected: 06/08/22 08:45
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/15/22 23:42	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/15/22 23:42	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/15/22 23:42	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/15/22 23:42	1
1,1-Dichloroethane	ND		1.0		ug/L			06/15/22 23:42	1
1,1-Dichloroethene	ND		1.0		ug/L			06/15/22 23:42	1
1,2,3-Trichloropropane	ND		1.0		ug/L			06/15/22 23:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/15/22 23:42	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/15/22 23:42	1

Client Sample ID: MW-3B
Date Collected: 06/08/22 08:45
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.0		ug/L			06/15/22 23:42	1
1,2-Dichloropropane	ND		1.0		ug/L			06/15/22 23:42	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/15/22 23:42	1
2-Butanone (MEK)	ND		10		ug/L			06/15/22 23:42	1
2-Hexanone	ND		5.0		ug/L			06/15/22 23:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			06/15/22 23:42	1
Acetone	ND		10		ug/L			06/15/22 23:42	1
Acrylonitrile	ND		5.0		ug/L			06/15/22 23:42	1
Benzene	ND		1.0		ug/L			06/15/22 23:42	1
Chlorobromomethane	ND		1.0		ug/L			06/15/22 23:42	1
Bromodichloromethane	ND		1.0		ug/L			06/15/22 23:42	1
Bromoform	ND		1.0		ug/L			06/15/22 23:42	1
Bromomethane	ND		1.0		ug/L			06/15/22 23:42	1
Carbon disulfide	ND		1.0		ug/L			06/15/22 23:42	1
Carbon tetrachloride	ND		1.0		ug/L			06/15/22 23:42	1
Chlorobenzene	ND		1.0		ug/L			06/15/22 23:42	1
Dibromochloromethane	ND		1.0		ug/L			06/15/22 23:42	1
Chloroethane	ND		1.0		ug/L			06/15/22 23:42	1
Chloroform	ND		1.0		ug/L			06/15/22 23:42	1
Chloromethane	ND		1.0		ug/L			06/15/22 23:42	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/15/22 23:42	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/15/22 23:42	1
Dibromomethane	ND		1.0		ug/L			06/15/22 23:42	1
Ethylbenzene	ND		1.0		ug/L			06/15/22 23:42	1
1,2-Dibromoethane	ND		1.0		ug/L			06/15/22 23:42	1
Iodomethane	ND		1.0		ug/L			06/15/22 23:42	1
Methylene Chloride	ND		1.0		ug/L			06/15/22 23:42	1
Styrene	ND		1.0		ug/L			06/15/22 23:42	1
Tetrachloroethene	ND		1.0		ug/L			06/15/22 23:42	1
Trichlorofluoromethane	ND		1.0		ug/L			06/15/22 23:42	1
Trichloroethene	ND		1.0		ug/L			06/15/22 23:42	1
Toluene	ND		1.0		ug/L			06/15/22 23:42	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/15/22 23:42	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/15/22 23:42	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			06/15/22 23:42	1
Vinyl acetate	ND		5.0		ug/L			06/15/22 23:42	1
Vinyl chloride	ND		1.0		ug/L			06/15/22 23:42	1
Xylenes, Total	ND		2.0		ug/L			06/15/22 23:42	1
m,p-Xylene	ND		2.0		ug/L			06/15/22 23:42	1
o-Xylene	ND		1.0		ug/L			06/15/22 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*77 - 120*		*06/15/22 23:42*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/15/22 23:42*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*06/15/22 23:42*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		06/13/22 08:21	06/13/22 20:09	1
Antimony	ND		0.020		mg/L		06/13/22 08:21	06/13/22 20:09	1

Client Sample ID: MW-3B

Date Collected: 06/08/22 08:45
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		06/13/22 08:21	06/13/22 20:09	1
Barium	**0.19**		0.0020		mg/L		06/13/22 08:21	06/13/22 20:09	1
Beryllium	ND		0.0020		mg/L		06/13/22 08:21	06/13/22 20:09	1
Boron	**0.030**		0.020		mg/L		06/13/22 08:21	06/13/22 20:09	1
Cadmium	ND		0.0020		mg/L		06/13/22 08:21	06/13/22 20:09	1
Calcium	**43.4**		0.50		mg/L		06/13/22 08:21	06/13/22 20:09	1
Chromium	ND		0.0040		mg/L		06/13/22 08:21	06/13/22 20:09	1
Cobalt	ND		0.0040		mg/L		06/13/22 08:21	06/13/22 20:09	1
Copper	ND		0.010		mg/L		06/13/22 08:21	06/13/22 20:09	1
Iron	**0.065**		0.050		mg/L		06/13/22 08:21	06/13/22 20:09	1
Lead	ND		0.010		mg/L		06/13/22 08:21	06/13/22 20:09	1
Magnesium	**13.0**		0.20		mg/L		06/13/22 08:21	06/13/22 20:09	1
Manganese	**0.028**		0.0030		mg/L		06/13/22 08:21	06/13/22 20:09	1
Nickel	ND		0.010		mg/L		06/13/22 08:21	06/13/22 20:09	1
Potassium	**0.96**		0.50		mg/L		06/13/22 08:21	06/13/22 20:09	1
Selenium	ND		0.025		mg/L		06/13/22 08:21	06/13/22 20:09	1
Silver	ND		0.0060		mg/L		06/13/22 08:21	06/13/22 20:09	1
Sodium	**7.1**		1.0		mg/L		06/13/22 08:21	06/13/22 20:09	1
Thallium	ND		0.020		mg/L		06/13/22 08:21	06/13/22 20:09	1
Vanadium	ND		0.0050		mg/L		06/13/22 08:21	06/13/22 20:09	1
Zinc	ND		0.010		mg/L		06/13/22 08:21	06/13/22 20:09	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/13/22 10:37	06/13/22 14:44	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**162**		0.50		mg/L			06/16/22 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**0.31**		0.20		mg/L			06/15/22 22:25	1
Alkalinity, Total	**194**		30.0		mg/L			06/21/22 12:39	3
Cyanide, Total	ND		0.010		mg/L		06/16/22 21:15	06/17/22 09:13	1
Ammonia	ND		0.020		mg/L			06/10/22 09:06	1
Total Kjeldahl Nitrogen	ND		0.20		mg/L		06/13/22 12:10	06/14/22 08:59	1
Nitrate as N	ND		0.050		mg/L			06/09/22 20:14	1
Chemical Oxygen Demand	ND		10.0		mg/L			06/14/22 18:00	1
Phenolics, Total Recoverable	ND		0.010		mg/L			06/13/22 12:06	1
Chromium, hexavalent	ND	H H3	0.010		mg/L			06/09/22 10:15	1
Sulfate	**11.8**		5.0		mg/L			06/09/22 14:57	1
Total Dissolved Solids	**219**		10.0		mg/L			06/10/22 09:23	1
Chloride	**21.0**		1.0		mg/L			06/26/22 14:49	1
Biochemical Oxygen Demand	**2.3**	**b**	2.0		mg/L			06/09/22 15:30	1
Total Organic Carbon - Duplicates	**3.0**		1.0		mg/L			06/23/22 02:33	1
TOC Result 1	**2.9**		1.0		mg/L			06/23/22 02:33	1
TOC Result 2	**3.1**		1.0		mg/L			06/23/22 02:33	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**10.0**	**^-**	5.00		Color Units			06/09/22 15:30	1

Client Sample ID: MW-4A
Date Collected: 06/08/22 09:15
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/16/22 00:04	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/16/22 00:04	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/16/22 00:04	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/16/22 00:04	1
1,1-Dichloroethane	ND		1.0		ug/L			06/16/22 00:04	1
1,1-Dichloroethene	ND		1.0		ug/L			06/16/22 00:04	1
1,2,3-Trichloropropane	ND		1.0		ug/L			06/16/22 00:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/16/22 00:04	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/16/22 00:04	1
1,2-Dichloroethane	ND		1.0		ug/L			06/16/22 00:04	1
1,2-Dichloropropane	ND		1.0		ug/L			06/16/22 00:04	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/16/22 00:04	1
2-Butanone (MEK)	ND		10		ug/L			06/16/22 00:04	1
2-Hexanone	ND		5.0		ug/L			06/16/22 00:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			06/16/22 00:04	1
Acetone	ND		10		ug/L			06/16/22 00:04	1
Acrylonitrile	ND		5.0		ug/L			06/16/22 00:04	1
Benzene	ND		1.0		ug/L			06/16/22 00:04	1
Chlorobromomethane	ND		1.0		ug/L			06/16/22 00:04	1
Bromodichloromethane	ND		1.0		ug/L			06/16/22 00:04	1
Bromoform	ND		1.0		ug/L			06/16/22 00:04	1
Bromomethane	ND		1.0		ug/L			06/16/22 00:04	1
Carbon disulfide	ND		1.0		ug/L			06/16/22 00:04	1
Carbon tetrachloride	ND		1.0		ug/L			06/16/22 00:04	1
Chlorobenzene	ND		1.0		ug/L			06/16/22 00:04	1
Dibromochloromethane	ND		1.0		ug/L			06/16/22 00:04	1
Chloroethane	ND		1.0		ug/L			06/16/22 00:04	1
Chloroform	ND		1.0		ug/L			06/16/22 00:04	1
Chloromethane	ND		1.0		ug/L			06/16/22 00:04	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/16/22 00:04	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/16/22 00:04	1
Dibromomethane	ND		1.0		ug/L			06/16/22 00:04	1
Ethylbenzene	ND		1.0		ug/L			06/16/22 00:04	1
1,2-Dibromoethane	ND		1.0		ug/L			06/16/22 00:04	1
Iodomethane	ND		1.0		ug/L			06/16/22 00:04	1
Methylene Chloride	ND		1.0		ug/L			06/16/22 00:04	1
Styrene	ND		1.0		ug/L			06/16/22 00:04	1
Tetrachloroethene	ND		1.0		ug/L			06/16/22 00:04	1
Trichlorofluoromethane	ND		1.0		ug/L			06/16/22 00:04	1
Trichloroethene	ND		1.0		ug/L			06/16/22 00:04	1
Toluene	ND		1.0		ug/L			06/16/22 00:04	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/16/22 00:04	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/16/22 00:04	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			06/16/22 00:04	1
Vinyl acetate	ND		5.0		ug/L			06/16/22 00:04	1
Vinyl chloride	ND		1.0		ug/L			06/16/22 00:04	1
Xylenes, Total	ND		2.0		ug/L			06/16/22 00:04	1
m,p-Xylene	ND		2.0		ug/L			06/16/22 00:04	1
o-Xylene	ND		1.0		ug/L			06/16/22 00:04	1

Client Sample ID: MW-4A

Date Collected: 06/08/22 09:15
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-6

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120		06/16/22 00:04	1
Toluene-d8 (Surr)	91		80 - 120		06/16/22 00:04	1
4-Bromofluorobenzene (Surr)	102		73 - 120		06/16/22 00:04	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		06/13/22 08:21	06/13/22 20:13	1
Antimony	ND		0.020		mg/L		06/13/22 08:21	06/13/22 20:13	1
Arsenic	ND		0.015		mg/L		06/13/22 08:21	06/13/22 20:13	1
Barium	**0.88**		0.0020		mg/L		06/13/22 08:21	06/13/22 20:13	1
Beryllium	ND		0.0020		mg/L		06/13/22 08:21	06/13/22 20:13	1
Boron	**0.054**		0.020		mg/L		06/13/22 08:21	06/13/22 20:13	1
Cadmium	ND		0.0020		mg/L		06/13/22 08:21	06/13/22 20:13	1
Calcium	**106**		0.50		mg/L		06/13/22 08:21	06/13/22 20:13	1
Chromium	ND		0.0040		mg/L		06/13/22 08:21	06/13/22 20:13	1
Cobalt	ND		0.0040		mg/L		06/13/22 08:21	06/13/22 20:13	1
Copper	ND		0.010		mg/L		06/13/22 08:21	06/13/22 20:13	1
Iron	**0.072**		0.050		mg/L		06/13/22 08:21	06/13/22 20:13	1
Lead	ND		0.010		mg/L		06/13/22 08:21	06/13/22 20:13	1
Magnesium	**23.3**		0.20		mg/L		06/13/22 08:21	06/13/22 20:13	1
Manganese	**0.48**		0.0030		mg/L		06/13/22 08:21	06/13/22 20:13	1
Nickel	ND		0.010		mg/L		06/13/22 08:21	06/13/22 20:13	1
Potassium	**1.2**		0.50		mg/L		06/13/22 08:21	06/13/22 20:13	1
Selenium	ND		0.025		mg/L		06/13/22 08:21	06/13/22 20:13	1
Silver	ND		0.0060		mg/L		06/13/22 08:21	06/13/22 20:13	1
Sodium	**13.0**		1.0		mg/L		06/13/22 08:21	06/13/22 20:13	1
Thallium	ND		0.020		mg/L		06/13/22 08:21	06/13/22 20:13	1
Vanadium	ND		0.0050		mg/L		06/13/22 08:21	06/13/22 20:13	1
Zinc	ND		0.010		mg/L		06/13/22 08:21	06/13/22 20:13	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/13/22 10:37	06/13/22 14:46	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**359**		0.50		mg/L			06/16/22 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.40		mg/L			06/15/22 22:39	2
Alkalinity, Total	**236**		100		mg/L			06/21/22 12:40	10
Cyanide, Total	ND		0.010		mg/L		06/16/22 21:15	06/17/22 09:15	1
Ammonia	ND		0.020		mg/L			06/10/22 09:09	1
Total Kjeldahl Nitrogen	**0.37**		0.20		mg/L		06/13/22 12:10	06/14/22 08:59	1
Nitrate as N	ND		0.050		mg/L			06/09/22 20:04	1
Chemical Oxygen Demand	ND		10.0		mg/L			06/14/22 18:00	1
Phenolics, Total Recoverable	ND		0.010		mg/L			06/13/22 12:13	1
Chromium, hexavalent	ND	H	0.010		mg/L			06/09/22 10:15	1
Sulfate	ND		5.0		mg/L			06/09/22 14:58	1
Total Dissolved Solids	**405**		10.0		mg/L			06/10/22 09:23	1

Client Sample ID: MW-4A
Lab Sample ID: 480-198813-6

Date Collected: 06/08/22 09:15
Matrix: Water
Date Received: 06/09/22 09:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.6**		1.0		mg/L			06/26/22 14:49	1
Biochemical Oxygen Demand	ND		2.0		mg/L			06/09/22 15:30	1
Total Organic Carbon - Duplicates	**1.1**		1.0		mg/L			06/23/22 02:49	1
TOC Result 1	**1.0**		1.0		mg/L			06/23/22 02:49	1
TOC Result 2	**1.2**		1.0		mg/L			06/23/22 02:49	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**10.0**	**^-**	5.00		Color Units			06/09/22 15:30	1

Client Sample ID: MW-5A
Lab Sample ID: 480-198813-7

Date Collected: 06/08/22 09:30
Matrix: Water
Date Received: 06/09/22 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/16/22 00:27	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/16/22 00:27	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/16/22 00:27	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/16/22 00:27	1
1,1-Dichloroethane	ND		1.0		ug/L			06/16/22 00:27	1
1,1-Dichloroethene	ND		1.0		ug/L			06/16/22 00:27	1
1,2,3-Trichloropropane	ND		1.0		ug/L			06/16/22 00:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/16/22 00:27	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/16/22 00:27	1
1,2-Dichloroethane	ND		1.0		ug/L			06/16/22 00:27	1
1,2-Dichloropropane	ND		1.0		ug/L			06/16/22 00:27	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/16/22 00:27	1
2-Butanone (MEK)	ND		10		ug/L			06/16/22 00:27	1
2-Hexanone	ND		5.0		ug/L			06/16/22 00:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			06/16/22 00:27	1
Acetone	ND		10		ug/L			06/16/22 00:27	1
Acrylonitrile	ND		5.0		ug/L			06/16/22 00:27	1
Benzene	ND		1.0		ug/L			06/16/22 00:27	1
Chlorobromomethane	ND		1.0		ug/L			06/16/22 00:27	1
Bromodichloromethane	ND		1.0		ug/L			06/16/22 00:27	1
Bromoform	ND		1.0		ug/L			06/16/22 00:27	1
Bromomethane	ND		1.0		ug/L			06/16/22 00:27	1
Carbon disulfide	ND		1.0		ug/L			06/16/22 00:27	1
Carbon tetrachloride	ND		1.0		ug/L			06/16/22 00:27	1
Chlorobenzene	ND		1.0		ug/L			06/16/22 00:27	1
Dibromochloromethane	ND		1.0		ug/L			06/16/22 00:27	1
Chloroethane	ND		1.0		ug/L			06/16/22 00:27	1
Chloroform	ND		1.0		ug/L			06/16/22 00:27	1
Chloromethane	ND		1.0		ug/L			06/16/22 00:27	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/16/22 00:27	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/16/22 00:27	1
Dibromomethane	ND		1.0		ug/L			06/16/22 00:27	1
Ethylbenzene	ND		1.0		ug/L			06/16/22 00:27	1
1,2-Dibromoethane	ND		1.0		ug/L			06/16/22 00:27	1
Iodomethane	ND		1.0		ug/L			06/16/22 00:27	1
Methylene Chloride	ND		1.0		ug/L			06/16/22 00:27	1

Client Sample ID: MW-5A
Date Collected: 06/08/22 09:30
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0		ug/L			06/16/22 00:27	1
Tetrachloroethene	ND		1.0		ug/L			06/16/22 00:27	1
Trichlorofluoromethane	ND		1.0		ug/L			06/16/22 00:27	1
Trichloroethene	ND		1.0		ug/L			06/16/22 00:27	1
Toluene	ND		1.0		ug/L			06/16/22 00:27	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/16/22 00:27	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/16/22 00:27	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			06/16/22 00:27	1
Vinyl acetate	ND		5.0		ug/L			06/16/22 00:27	1
Vinyl chloride	ND		1.0		ug/L			06/16/22 00:27	1
Xylenes, Total	ND		2.0		ug/L			06/16/22 00:27	1
m,p-Xylene	ND		2.0		ug/L			06/16/22 00:27	1
o-Xylene	ND		1.0		ug/L			06/16/22 00:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*		*06/16/22 00:27*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*06/16/22 00:27*	*1*
4-Bromofluorobenzene (Surr)	*112*		*73 - 120*		*06/16/22 00:27*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.41**		0.20		mg/L		06/13/22 08:21	06/13/22 20:17	1
Antimony	ND		0.020		mg/L		06/13/22 08:21	06/13/22 20:17	1
Arsenic	ND		0.015		mg/L		06/13/22 08:21	06/13/22 20:17	1
Barium	**0.55**		0.0020		mg/L		06/13/22 08:21	06/13/22 20:17	1
Beryllium	ND		0.0020		mg/L		06/13/22 08:21	06/13/22 20:17	1
Boron	ND		0.020		mg/L		06/13/22 08:21	06/13/22 20:17	1
Cadmium	ND		0.0020		mg/L		06/13/22 08:21	06/13/22 20:17	1
Calcium	**37.6**		0.50		mg/L		06/13/22 08:21	06/13/22 20:17	1
Chromium	ND		0.0040		mg/L		06/13/22 08:21	06/13/22 20:17	1
Cobalt	ND		0.0040		mg/L		06/13/22 08:21	06/13/22 20:17	1
Copper	ND		0.010		mg/L		06/13/22 08:21	06/13/22 20:17	1
Iron	**0.27**		0.050		mg/L		06/13/22 08:21	06/13/22 20:17	1
Lead	ND		0.010		mg/L		06/13/22 08:21	06/13/22 20:17	1
Magnesium	**10.8**		0.20		mg/L		06/13/22 08:21	06/13/22 20:17	1
Manganese	**0.083**		0.0030		mg/L		06/13/22 08:21	06/13/22 20:17	1
Nickel	ND		0.010		mg/L		06/13/22 08:21	06/13/22 20:17	1
Potassium	**0.87**		0.50		mg/L		06/13/22 08:21	06/13/22 20:17	1
Selenium	ND		0.025		mg/L		06/13/22 08:21	06/13/22 20:17	1
Silver	ND		0.0060		mg/L		06/13/22 08:21	06/13/22 20:17	1
Sodium	**8.1**		1.0		mg/L		06/13/22 08:21	06/13/22 20:17	1
Thallium	ND		0.020		mg/L		06/13/22 08:21	06/13/22 20:17	1
Vanadium	ND		0.0050		mg/L		06/13/22 08:21	06/13/22 20:17	1
Zinc	ND		0.010		mg/L		06/13/22 08:21	06/13/22 20:17	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/13/22 10:37	06/13/22 14:47	1

Client Sample ID: MW-5A
Lab Sample ID: 480-198813-7

Date Collected: 06/08/22 09:30
Matrix: Water
Date Received: 06/09/22 09:00

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**138**		0.50		mg/L			06/16/22 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			06/17/22 18:54	1
Alkalinity, Total	**171**		30.0		mg/L			06/21/22 12:40	3
Cyanide, Total	ND		0.010		mg/L		06/16/22 21:15	06/17/22 09:16	1
Ammonia	ND		0.020		mg/L			06/10/22 09:10	1
Total Kjeldahl Nitrogen	**0.45**		0.20		mg/L		06/13/22 12:10	06/14/22 09:08	1
Nitrate as N	ND		0.050		mg/L			06/09/22 20:25	1
Chemical Oxygen Demand	ND		10.0		mg/L			06/14/22 18:00	1
Phenolics, Total Recoverable	ND		0.010		mg/L			06/13/22 12:17	1
Chromium, hexavalent	ND	H	0.010		mg/L			06/09/22 10:15	1
Sulfate	**17.7**		5.0		mg/L			06/09/22 14:58	1
Total Dissolved Solids	**162**		10.0		mg/L			06/10/22 09:23	1
Chloride	**4.5**		1.0		mg/L			06/26/22 14:49	1
Biochemical Oxygen Demand	ND		2.0		mg/L			06/09/22 15:30	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			06/15/22 15:12	1
TOC Result 1	ND		1.0		mg/L			06/15/22 15:12	1
TOC Result 2	ND	*+	1.0		mg/L			06/15/22 15:12	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**10.0**	**^-**	5.00		Color Units			06/09/22 15:30	1

Client Sample ID: MW-6A
Lab Sample ID: 480-198813-8

Date Collected: 06/08/22 11:55
Matrix: Water
Date Received: 06/09/22 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/16/22 00:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/16/22 00:50	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/16/22 00:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/16/22 00:50	1
1,1-Dichloroethane	ND		1.0		ug/L			06/16/22 00:50	1
1,1-Dichloroethene	ND		1.0		ug/L			06/16/22 00:50	1
1,2,3-Trichloropropane	ND		1.0		ug/L			06/16/22 00:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/16/22 00:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/16/22 00:50	1
1,2-Dichloroethane	ND		1.0		ug/L			06/16/22 00:50	1
1,2-Dichloropropane	ND		1.0		ug/L			06/16/22 00:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/16/22 00:50	1
2-Butanone (MEK)	ND		10		ug/L			06/16/22 00:50	1
2-Hexanone	ND		5.0		ug/L			06/16/22 00:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			06/16/22 00:50	1
Acetone	ND		10		ug/L			06/16/22 00:50	1
Acrylonitrile	ND		5.0		ug/L			06/16/22 00:50	1
Benzene	ND		1.0		ug/L			06/16/22 00:50	1
Chlorobromomethane	ND		1.0		ug/L			06/16/22 00:50	1
Bromodichloromethane	ND		1.0		ug/L			06/16/22 00:50	1
Bromoform	ND		1.0		ug/L			06/16/22 00:50	1

Client Sample ID: MW-6A

Date Collected: 06/08/22 11:55
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		1.0		ug/L			06/16/22 00:50	1
Carbon disulfide	ND		1.0		ug/L			06/16/22 00:50	1
Carbon tetrachloride	ND		1.0		ug/L			06/16/22 00:50	1
Chlorobenzene	ND		1.0		ug/L			06/16/22 00:50	1
Dibromochloromethane	ND		1.0		ug/L			06/16/22 00:50	1
Chloroethane	ND		1.0		ug/L			06/16/22 00:50	1
Chloroform	ND		1.0		ug/L			06/16/22 00:50	1
Chloromethane	ND		1.0		ug/L			06/16/22 00:50	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/16/22 00:50	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/16/22 00:50	1
Dibromomethane	ND		1.0		ug/L			06/16/22 00:50	1
Ethylbenzene	ND		1.0		ug/L			06/16/22 00:50	1
1,2-Dibromoethane	ND		1.0		ug/L			06/16/22 00:50	1
Iodomethane	ND		1.0		ug/L			06/16/22 00:50	1
Methylene Chloride	ND		1.0		ug/L			06/16/22 00:50	1
Styrene	ND		1.0		ug/L			06/16/22 00:50	1
Tetrachloroethene	ND		1.0		ug/L			06/16/22 00:50	1
Trichlorofluoromethane	ND		1.0		ug/L			06/16/22 00:50	1
Trichloroethene	ND		1.0		ug/L			06/16/22 00:50	1
Toluene	ND		1.0		ug/L			06/16/22 00:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/16/22 00:50	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/16/22 00:50	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			06/16/22 00:50	1
Vinyl acetate	ND		5.0		ug/L			06/16/22 00:50	1
Vinyl chloride	ND		1.0		ug/L			06/16/22 00:50	1
Xylenes, Total	ND		2.0		ug/L			06/16/22 00:50	1
m,p-Xylene	ND		2.0		ug/L			06/16/22 00:50	1
o-Xylene	ND		1.0		ug/L			06/16/22 00:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*77 - 120*		*06/16/22 00:50*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*06/16/22 00:50*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*06/16/22 00:50*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**45.3**		0.20		mg/L		06/13/22 08:21	06/13/22 20:21	1
Antimony	ND		0.020		mg/L		06/13/22 08:21	06/13/22 20:21	1
Arsenic	**0.062**		0.015		mg/L		06/13/22 08:21	06/13/22 20:21	1
Barium	**1.3**		0.0020		mg/L		06/13/22 08:21	06/13/22 20:21	1
Beryllium	**0.0023**		0.0020		mg/L		06/13/22 08:21	06/13/22 20:21	1
Boron	**0.032**		0.020		mg/L		06/13/22 08:21	06/13/22 20:21	1
Cadmium	ND		0.0020		mg/L		06/13/22 08:21	06/13/22 20:21	1
Calcium	**72.1**		0.50		mg/L		06/13/22 08:21	06/13/22 20:21	1
Chromium	**0.068**		0.0040		mg/L		06/13/22 08:21	06/13/22 20:21	1
Cobalt	**0.074**		0.0040		mg/L		06/13/22 08:21	06/13/22 20:21	1
Copper	**0.082**		0.010		mg/L		06/13/22 08:21	06/13/22 20:21	1
Iron	**80.3**		0.050		mg/L		06/13/22 08:21	06/13/22 20:21	1
Lead	**0.030**		0.010		mg/L		06/13/22 08:21	06/13/22 20:21	1
Magnesium	**22.4**		0.20		mg/L		06/13/22 08:21	06/13/22 20:21	1

Client Sample ID: MW-6A

Date Collected: 06/08/22 11:55
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**6.9**		0.0030		mg/L		06/13/22 08:21	06/13/22 20:21	1
Nickel	**0.092**		0.010		mg/L		06/13/22 08:21	06/13/22 20:21	1
Potassium	**9.4**		0.50		mg/L		06/13/22 08:21	06/13/22 20:21	1
Selenium	ND		0.025		mg/L		06/13/22 08:21	06/13/22 20:21	1
Silver	ND		0.0060		mg/L		06/13/22 08:21	06/13/22 20:21	1
Sodium	**28.7**		1.0		mg/L		06/13/22 08:21	06/13/22 20:21	1
Thallium	ND		0.020		mg/L		06/13/22 08:21	06/13/22 20:21	1
Vanadium	**0.060**		0.0050		mg/L		06/13/22 08:21	06/13/22 20:21	1
Zinc	**0.15**		0.010		mg/L		06/13/22 08:21	06/13/22 20:21	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.20**		0.20		mg/L		06/14/22 09:55	06/15/22 13:42	1
Antimony	ND		0.020		mg/L		06/14/22 09:55	06/15/22 13:42	1
Arsenic	ND		0.015		mg/L		06/14/22 09:55	06/15/22 13:42	1
Barium	**0.26**		0.0020		mg/L		06/14/22 09:55	06/15/22 13:42	1
Beryllium	ND		0.0020		mg/L		06/14/22 09:55	06/15/22 13:42	1
Boron	ND		0.020		mg/L		06/14/22 09:55	06/15/22 13:42	1
Cadmium	ND		0.0020		mg/L		06/14/22 09:55	06/15/22 13:42	1
Calcium	**72.1**		0.50		mg/L		06/14/22 09:55	06/15/22 13:42	1
Chromium	ND		0.0040		mg/L		06/14/22 09:55	06/15/22 13:42	1
Cobalt	ND		0.0040		mg/L		06/14/22 09:55	06/15/22 13:42	1
Copper	ND		0.010		mg/L		06/14/22 09:55	06/15/22 13:42	1
Iron	**0.18**		0.050		mg/L		06/14/22 09:55	06/15/22 13:42	1
Lead	ND		0.010		mg/L		06/14/22 09:55	06/15/22 13:42	1
Magnesium	**10.5**		0.20		mg/L		06/14/22 09:55	06/15/22 13:42	1
Manganese	**1.0**		0.0030		mg/L		06/14/22 09:55	06/15/22 13:42	1
Nickel	ND		0.010		mg/L		06/14/22 09:55	06/15/22 13:42	1
Potassium	**2.4**		0.50		mg/L		06/14/22 09:55	06/15/22 13:42	1
Selenium	ND		0.025		mg/L		06/14/22 09:55	06/15/22 13:42	1
Silver	ND		0.0060		mg/L		06/14/22 09:55	06/15/22 13:42	1
Sodium	**29.9**		1.0		mg/L		06/14/22 09:55	06/15/22 13:42	1
Thallium	ND		0.020		mg/L		06/14/22 09:55	06/15/22 13:42	1
Zinc	ND		0.010		mg/L		06/14/22 09:55	06/15/22 13:42	1
Vanadium	ND		0.0050		mg/L		06/14/22 09:55	06/15/22 13:42	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00040		mg/L		06/13/22 10:37	06/13/22 14:48	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/14/22 10:39	06/14/22 14:03	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**272**		0.50		mg/L			06/16/22 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			06/17/22 19:12	1

Client Sample ID: MW-6A
Lab Sample ID: 480-198813-8

Date Collected: 06/08/22 11:55
Matrix: Water
Date Received: 06/09/22 09:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**200**		50.0		mg/L			06/21/22 12:40	5
Cyanide, Total	ND		0.010		mg/L		06/16/22 21:15	06/17/22 09:18	1
Ammonia	**0.19**		0.020		mg/L			06/10/22 09:11	1
Total Kjeldahl Nitrogen	**2.7**		0.20		mg/L		06/13/22 12:10	06/14/22 09:08	1
Nitrate as N	**0.075**		0.050		mg/L			06/09/22 20:23	1
Chemical Oxygen Demand	**27.4**		10.0		mg/L			06/14/22 18:00	1
Phenolics, Total Recoverable	ND		0.010		mg/L			06/13/22 12:20	1
Chromium, hexavalent	ND		0.010		mg/L			06/09/22 10:15	1
Sulfate	ND	F1	5.0		mg/L			06/09/22 14:58	1
Total Dissolved Solids	**426**		10.0		mg/L			06/10/22 09:23	1
Chloride	**78.8**		1.0		mg/L			06/26/22 14:49	1
Biochemical Oxygen Demand	**4.7**	**b**	2.0		mg/L			06/09/22 15:30	1
Total Organic Carbon - Duplicates	**5.7**		1.0		mg/L			06/18/22 22:55	1
TOC Result 1	**6.5**		1.0		mg/L			06/18/22 22:55	1
TOC Result 2	**4.9**		1.0		mg/L			06/18/22 22:55	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**10.0**	**^-**	5.00		Color Units			06/09/22 15:30	1

Client Sample ID: MW-6B
Lab Sample ID: 480-198813-9

Date Collected: 06/08/22 12:15
Matrix: Water
Date Received: 06/09/22 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/16/22 01:13	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/16/22 01:13	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/16/22 01:13	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/16/22 01:13	1
1,1-Dichloroethane	ND		1.0		ug/L			06/16/22 01:13	1
1,1-Dichloroethene	ND		1.0		ug/L			06/16/22 01:13	1
1,2,3-Trichloropropane	ND		1.0		ug/L			06/16/22 01:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/16/22 01:13	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/16/22 01:13	1
1,2-Dichloroethane	ND		1.0		ug/L			06/16/22 01:13	1
1,2-Dichloropropane	ND		1.0		ug/L			06/16/22 01:13	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/16/22 01:13	1
2-Butanone (MEK)	ND		10		ug/L			06/16/22 01:13	1
2-Hexanone	ND		5.0		ug/L			06/16/22 01:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			06/16/22 01:13	1
Acetone	ND		10		ug/L			06/16/22 01:13	1
Acrylonitrile	ND		5.0		ug/L			06/16/22 01:13	1
Benzene	ND		1.0		ug/L			06/16/22 01:13	1
Chlorobromomethane	ND		1.0		ug/L			06/16/22 01:13	1
Bromodichloromethane	ND		1.0		ug/L			06/16/22 01:13	1
Bromoform	ND		1.0		ug/L			06/16/22 01:13	1
Bromomethane	ND		1.0		ug/L			06/16/22 01:13	1
Carbon disulfide	ND		1.0		ug/L			06/16/22 01:13	1
Carbon tetrachloride	ND		1.0		ug/L			06/16/22 01:13	1
Chlorobenzene	ND		1.0		ug/L			06/16/22 01:13	1
Dibromochloromethane	ND		1.0		ug/L			06/16/22 01:13	1

Client Sample ID: MW-6B
Date Collected: 06/08/22 12:15
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.0		ug/L			06/16/22 01:13	1
Chloroform	ND		1.0		ug/L			06/16/22 01:13	1
Chloromethane	ND		1.0		ug/L			06/16/22 01:13	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/16/22 01:13	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/16/22 01:13	1
Dibromomethane	ND		1.0		ug/L			06/16/22 01:13	1
Ethylbenzene	ND		1.0		ug/L			06/16/22 01:13	1
1,2-Dibromoethane	ND		1.0		ug/L			06/16/22 01:13	1
Iodomethane	ND		1.0		ug/L			06/16/22 01:13	1
Methylene Chloride	ND		1.0		ug/L			06/16/22 01:13	1
Styrene	ND		1.0		ug/L			06/16/22 01:13	1
Tetrachloroethene	ND		1.0		ug/L			06/16/22 01:13	1
Trichlorofluoromethane	ND		1.0		ug/L			06/16/22 01:13	1
Trichloroethene	ND		1.0		ug/L			06/16/22 01:13	1
Toluene	ND		1.0		ug/L			06/16/22 01:13	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/16/22 01:13	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/16/22 01:13	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			06/16/22 01:13	1
Vinyl acetate	ND		5.0		ug/L			06/16/22 01:13	1
Vinyl chloride	ND		1.0		ug/L			06/16/22 01:13	1
Xylenes, Total	ND		2.0		ug/L			06/16/22 01:13	1
m,p-Xylene	ND		2.0		ug/L			06/16/22 01:13	1
o-Xylene	ND		1.0		ug/L			06/16/22 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*77 - 120*		*06/16/22 01:13*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*06/16/22 01:13*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*06/16/22 01:13*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.27**		0.20		mg/L		06/13/22 08:21	06/13/22 20:36	1
Antimony	ND		0.020		mg/L		06/13/22 08:21	06/13/22 20:36	1
Arsenic	ND		0.015		mg/L		06/13/22 08:21	06/13/22 20:36	1
Barium	**0.30**		0.0020		mg/L		06/13/22 08:21	06/13/22 20:36	1
Beryllium	ND		0.0020		mg/L		06/13/22 08:21	06/13/22 20:36	1
Boron	ND		0.020		mg/L		06/13/22 08:21	06/13/22 20:36	1
Cadmium	ND		0.0020		mg/L		06/13/22 08:21	06/13/22 20:36	1
Calcium	**49.5**		0.50		mg/L		06/13/22 08:21	06/13/22 20:36	1
Chromium	ND		0.0040		mg/L		06/13/22 08:21	06/13/22 20:36	1
Cobalt	ND		0.0040		mg/L		06/13/22 08:21	06/13/22 20:36	1
Copper	ND		0.010		mg/L		06/13/22 08:21	06/13/22 20:36	1
Iron	**0.24**		0.050		mg/L		06/13/22 08:21	06/14/22 16:57	1
Lead	ND		0.010		mg/L		06/13/22 08:21	06/13/22 20:36	1
Magnesium	**11.5**		0.20		mg/L		06/13/22 08:21	06/13/22 20:36	1
Manganese	**0.035**		0.0030		mg/L		06/13/22 08:21	06/13/22 20:36	1
Nickel	ND		0.010		mg/L		06/13/22 08:21	06/13/22 20:36	1
Potassium	**1.0**		0.50		mg/L		06/13/22 08:21	06/13/22 20:36	1
Selenium	ND		0.025		mg/L		06/13/22 08:21	06/13/22 20:36	1
Silver	ND		0.0060		mg/L		06/13/22 08:21	06/13/22 20:36	1

Client Sample ID: MW-6B

Date Collected: 06/08/22 12:15
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**35.5**		1.0		mg/L		06/13/22 08:21	06/13/22 20:36	1
Thallium	ND		0.020		mg/L		06/13/22 08:21	06/13/22 20:36	1
Vanadium	ND		0.0050		mg/L		06/13/22 08:21	06/13/22 20:36	1
Zinc	**0.012**		0.010		mg/L		06/13/22 08:21	06/13/22 20:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/13/22 10:37	06/13/22 14:49	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**171**		0.50		mg/L			06/16/22 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			06/17/22 19:31	1
Alkalinity, Total	**160**		30.0		mg/L			06/21/22 12:41	3
Cyanide, Total	ND		0.010		mg/L		06/16/22 21:15	06/17/22 09:19	1
Ammonia	ND		0.020		mg/L			06/10/22 09:12	1
Total Kjeldahl Nitrogen	ND		0.20		mg/L		06/13/22 12:10	06/14/22 09:08	1
Nitrate as N	**0.056**		0.050		mg/L			06/09/22 20:18	1
Chemical Oxygen Demand	ND		10.0		mg/L			06/14/22 18:00	1
Phenolics, Total Recoverable	ND		0.010		mg/L			06/13/22 12:24	1
Chromium, hexavalent	ND		0.010		mg/L			06/09/22 10:15	1
Sulfate	**15.0**		5.0		mg/L			06/09/22 14:59	1
Total Dissolved Solids	**285**		10.0		mg/L			06/13/22 09:26	1
Chloride	**77.2**		1.0		mg/L			06/26/22 14:49	1
Biochemical Oxygen Demand	**2.0**	**b**	2.0		mg/L			06/09/22 15:30	1
Total Organic Carbon - Duplicates	**7.0**		1.0		mg/L			06/23/22 03:05	1
TOC Result 1	**7.1**		1.0		mg/L			06/23/22 03:05	1
TOC Result 2	**7.0**		1.0		mg/L			06/23/22 03:05	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**10.0**	**^-**	5.00		Color Units			06/09/22 15:30	1

Client Sample ID: MW-7A

Date Collected: 06/08/22 13:15
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/16/22 01:37	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/16/22 01:37	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/16/22 01:37	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/16/22 01:37	1
1,1-Dichloroethane	**1.1**		1.0		ug/L			06/16/22 01:37	1
1,1-Dichloroethene	ND		1.0		ug/L			06/16/22 01:37	1
1,2,3-Trichloropropane	ND		1.0		ug/L			06/16/22 01:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/16/22 01:37	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/16/22 01:37	1
1,2-Dichloroethane	ND		1.0		ug/L			06/16/22 01:37	1

Client Sample ID: MW-7A
Date Collected: 06/08/22 13:15
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.0		ug/L			06/16/22 01:37	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/16/22 01:37	1
2-Butanone (MEK)	ND		10		ug/L			06/16/22 01:37	1
2-Hexanone	ND		5.0		ug/L			06/16/22 01:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			06/16/22 01:37	1
Acetone	ND		10		ug/L			06/16/22 01:37	1
Acrylonitrile	ND		5.0		ug/L			06/16/22 01:37	1
Benzene	ND		1.0		ug/L			06/16/22 01:37	1
Chlorobromomethane	ND		1.0		ug/L			06/16/22 01:37	1
Bromodichloromethane	ND		1.0		ug/L			06/16/22 01:37	1
Bromoform	ND		1.0		ug/L			06/16/22 01:37	1
Bromomethane	ND		1.0		ug/L			06/16/22 01:37	1
Carbon disulfide	ND		1.0		ug/L			06/16/22 01:37	1
Carbon tetrachloride	ND		1.0		ug/L			06/16/22 01:37	1
Chlorobenzene	ND		1.0		ug/L			06/16/22 01:37	1
Dibromochloromethane	ND		1.0		ug/L			06/16/22 01:37	1
Chloroethane	ND		1.0		ug/L			06/16/22 01:37	1
Chloroform	ND		1.0		ug/L			06/16/22 01:37	1
Chloromethane	ND		1.0		ug/L			06/16/22 01:37	1
cis-1,2-Dichloroethene	**1.2**		1.0		ug/L			06/16/22 01:37	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/16/22 01:37	1
Dibromomethane	ND		1.0		ug/L			06/16/22 01:37	1
Ethylbenzene	ND		1.0		ug/L			06/16/22 01:37	1
1,2-Dibromoethane	ND		1.0		ug/L			06/16/22 01:37	1
Iodomethane	ND		1.0		ug/L			06/16/22 01:37	1
Methylene Chloride	ND		1.0		ug/L			06/16/22 01:37	1
Styrene	ND		1.0		ug/L			06/16/22 01:37	1
Tetrachloroethene	ND		1.0		ug/L			06/16/22 01:37	1
Trichlorofluoromethane	ND		1.0		ug/L			06/16/22 01:37	1
Trichloroethene	ND		1.0		ug/L			06/16/22 01:37	1
Toluene	ND		1.0		ug/L			06/16/22 01:37	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/16/22 01:37	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/16/22 01:37	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			06/16/22 01:37	1
Vinyl acetate	ND		5.0		ug/L			06/16/22 01:37	1
Vinyl chloride	ND		1.0		ug/L			06/16/22 01:37	1
Xylenes, Total	ND		2.0		ug/L			06/16/22 01:37	1
m,p-Xylene	ND		2.0		ug/L			06/16/22 01:37	1
o-Xylene	ND		1.0		ug/L			06/16/22 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*77 - 120*		*06/16/22 01:37*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*06/16/22 01:37*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*06/16/22 01:37*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3.9**		0.20		mg/L		06/13/22 08:21	06/13/22 20:40	1
Antimony	ND		0.020		mg/L		06/13/22 08:21	06/13/22 20:40	1
Arsenic	ND		0.015		mg/L		06/13/22 08:21	06/13/22 20:40	1

Client Sample ID: MW-7A
Date Collected: 06/08/22 13:15
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.24**		0.0020		mg/L		06/13/22 08:21	06/13/22 20:40	1
Beryllium	ND		0.0020		mg/L		06/13/22 08:21	06/13/22 20:40	1
Boron	**0.16**		0.020		mg/L		06/13/22 08:21	06/13/22 20:40	1
Cadmium	ND		0.0020		mg/L		06/13/22 08:21	06/13/22 20:40	1
Calcium	**92.5**		0.50		mg/L		06/13/22 08:21	06/13/22 20:40	1
Chromium	**0.0047**		0.0040		mg/L		06/13/22 08:21	06/13/22 20:40	1
Cobalt	ND		0.0040		mg/L		06/13/22 08:21	06/13/22 20:40	1
Copper	ND		0.010		mg/L		06/13/22 08:21	06/13/22 20:40	1
Iron	**4.9**		0.050		mg/L		06/13/22 08:21	06/14/22 17:01	1
Lead	ND		0.010		mg/L		06/13/22 08:21	06/13/22 20:40	1
Magnesium	**18.8**		0.20		mg/L		06/13/22 08:21	06/13/22 20:40	1
Manganese	**4.7**		0.0030		mg/L		06/13/22 08:21	06/13/22 20:40	1
Nickel	ND		0.010		mg/L		06/13/22 08:21	06/13/22 20:40	1
Potassium	**2.8**		0.50		mg/L		06/13/22 08:21	06/13/22 20:40	1
Selenium	ND		0.025		mg/L		06/13/22 08:21	06/13/22 20:40	1
Silver	ND		0.0060		mg/L		06/13/22 08:21	06/13/22 20:40	1
Sodium	**29.5**		1.0		mg/L		06/13/22 08:21	06/13/22 20:40	1
Thallium	ND		0.020		mg/L		06/13/22 08:21	06/13/22 20:40	1
Vanadium	**0.0055**		0.0050		mg/L		06/13/22 08:21	06/13/22 20:40	1
Zinc	**0.018**		0.010		mg/L		06/13/22 08:21	06/13/22 20:40	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		06/14/22 09:55	06/15/22 13:45	1
Antimony	ND		0.020		mg/L		06/14/22 09:55	06/15/22 13:45	1
Arsenic	ND		0.015		mg/L		06/14/22 09:55	06/15/22 13:45	1
Barium	**0.21**		0.0020		mg/L		06/14/22 09:55	06/15/22 13:45	1
Beryllium	ND		0.0020		mg/L		06/14/22 09:55	06/15/22 13:45	1
Boron	**0.17**		0.020		mg/L		06/14/22 09:55	06/15/22 13:45	1
Cadmium	ND		0.0020		mg/L		06/14/22 09:55	06/15/22 13:45	1
Calcium	**99.1**		0.50		mg/L		06/14/22 09:55	06/15/22 13:45	1
Chromium	ND		0.0040		mg/L		06/14/22 09:55	06/15/22 13:45	1
Cobalt	ND		0.0040		mg/L		06/14/22 09:55	06/15/22 13:45	1
Copper	ND		0.010		mg/L		06/14/22 09:55	06/15/22 13:45	1
Iron	ND		0.050		mg/L		06/14/22 09:55	06/15/22 13:45	1
Lead	ND		0.010		mg/L		06/14/22 09:55	06/15/22 13:45	1
Magnesium	**19.0**		0.20		mg/L		06/14/22 09:55	06/15/22 13:45	1
Manganese	**4.4**		0.0030		mg/L		06/14/22 09:55	06/15/22 13:45	1
Nickel	ND		0.010		mg/L		06/14/22 09:55	06/15/22 13:45	1
Potassium	**2.0**		0.50		mg/L		06/14/22 09:55	06/15/22 13:45	1
Selenium	ND		0.025		mg/L		06/14/22 09:55	06/15/22 13:45	1
Silver	ND		0.0060		mg/L		06/14/22 09:55	06/15/22 13:45	1
Sodium	**32.0**		1.0		mg/L		06/14/22 09:55	06/15/22 13:45	1
Thallium	ND		0.020		mg/L		06/14/22 09:55	06/15/22 13:45	1
Zinc	**0.010**		0.010		mg/L		06/14/22 09:55	06/15/22 13:45	1
Vanadium	ND		0.0050		mg/L		06/14/22 09:55	06/15/22 13:45	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/13/22 10:37	06/13/22 14:51	1

Client Sample ID: MW-7A
Lab Sample ID: 480-198813-10
Date Collected: 06/08/22 13:15
Matrix: Water
Date Received: 06/09/22 09:00

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/14/22 10:39	06/14/22 14:07	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**309**		0.50		mg/L			06/16/22 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.40		mg/L			06/17/22 19:49	2
Alkalinity, Total	**445**		50.0		mg/L			06/21/22 12:42	5
Cyanide, Total	ND		0.010		mg/L		06/17/22 10:30	06/17/22 13:10	1
Ammonia	**0.10**		0.020		mg/L			06/10/22 09:13	1
Total Kjeldahl Nitrogen	**0.93**		0.20		mg/L		06/13/22 12:10	06/14/22 09:08	1
Nitrate as N	ND		0.050		mg/L			06/09/22 20:21	1
Chemical Oxygen Demand	ND		10.0		mg/L			06/14/22 18:00	1
Phenolics, Total Recoverable	ND		0.010		mg/L			06/13/22 12:28	1
Chromium, hexavalent	ND		0.010		mg/L			06/09/22 10:15	1
Sulfate	ND		5.0		mg/L			06/09/22 14:59	1
Total Dissolved Solids	**423**		10.0		mg/L			06/13/22 09:26	1
Chloride	**19.4**		1.0		mg/L			06/26/22 14:49	1
Biochemical Oxygen Demand	ND		2.0		mg/L			06/09/22 15:30	1
Total Organic Carbon - Duplicates	**8.0**		1.0		mg/L			06/18/22 23:54	1
TOC Result 1	**9.6**		1.0		mg/L			06/18/22 23:54	1
TOC Result 2	**6.4**		1.0		mg/L			06/18/22 23:54	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**25.0**	**^-**	5.00		Color Units			06/09/22 15:30	1

Client Sample ID: TRIP BLANK 1
Lab Sample ID: 480-198813-11
Date Collected: 06/08/22 08:30
Matrix: Water
Date Received: 06/09/22 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/16/22 02:00	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/16/22 02:00	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/16/22 02:00	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/16/22 02:00	1
1,1-Dichloroethane	ND		1.0		ug/L			06/16/22 02:00	1
1,1-Dichloroethene	ND		1.0		ug/L			06/16/22 02:00	1
1,2,3-Trichloropropane	ND		1.0		ug/L			06/16/22 02:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/16/22 02:00	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/16/22 02:00	1
1,2-Dichloroethane	ND		1.0		ug/L			06/16/22 02:00	1
1,2-Dichloropropane	ND		1.0		ug/L			06/16/22 02:00	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/16/22 02:00	1
2-Butanone (MEK)	ND		10		ug/L			06/16/22 02:00	1
2-Hexanone	ND		5.0		ug/L			06/16/22 02:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			06/16/22 02:00	1
Acetone	ND		10		ug/L			06/16/22 02:00	1
Acrylonitrile	ND		5.0		ug/L			06/16/22 02:00	1

Client Sample ID: TRIP BLANK 1

Lab Sample ID: 480-198813-11

Date Collected: 06/08/22 08:30
Matrix: Water
Date Received: 06/09/22 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			06/16/22 02:00	1
Chlorobromomethane	ND		1.0		ug/L			06/16/22 02:00	1
Bromodichloromethane	ND		1.0		ug/L			06/16/22 02:00	1
Bromoform	ND		1.0		ug/L			06/16/22 02:00	1
Bromomethane	ND		1.0		ug/L			06/16/22 02:00	1
Carbon disulfide	ND		1.0		ug/L			06/16/22 02:00	1
Carbon tetrachloride	ND		1.0		ug/L			06/16/22 02:00	1
Chlorobenzene	ND		1.0		ug/L			06/16/22 02:00	1
Dibromochloromethane	ND		1.0		ug/L			06/16/22 02:00	1
Chloroethane	ND		1.0		ug/L			06/16/22 02:00	1
Chloroform	ND		1.0		ug/L			06/16/22 02:00	1
Chloromethane	ND		1.0		ug/L			06/16/22 02:00	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/16/22 02:00	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/16/22 02:00	1
Dibromomethane	ND		1.0		ug/L			06/16/22 02:00	1
Ethylbenzene	ND		1.0		ug/L			06/16/22 02:00	1
1,2-Dibromoethane	ND		1.0		ug/L			06/16/22 02:00	1
Iodomethane	ND		1.0		ug/L			06/16/22 02:00	1
Methylene Chloride	ND		1.0		ug/L			06/16/22 02:00	1
Styrene	ND		1.0		ug/L			06/16/22 02:00	1
Tetrachloroethene	ND		1.0		ug/L			06/16/22 02:00	1
Trichlorofluoromethane	ND		1.0		ug/L			06/16/22 02:00	1
Trichloroethene	ND		1.0		ug/L			06/16/22 02:00	1
Toluene	ND		1.0		ug/L			06/16/22 02:00	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/16/22 02:00	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/16/22 02:00	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			06/16/22 02:00	1
Vinyl acetate	ND		5.0		ug/L			06/16/22 02:00	1
Vinyl chloride	ND		1.0		ug/L			06/16/22 02:00	1
Xylenes, Total	ND		2.0		ug/L			06/16/22 02:00	1
m,p-Xylene	ND		2.0		ug/L			06/16/22 02:00	1
o-Xylene	ND		1.0		ug/L			06/16/22 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*77 - 120*		*06/16/22 02:00*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*06/16/22 02:00*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*06/16/22 02:00*	*1*

Client Sample ID: MW-1A

Lab Sample ID: 480-198818-1

Date Collected: 06/08/22 10:30
Matrix: Water
Date Received: 06/09/22 09:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.24**		0.20		ug/L		06/09/22 14:44	06/10/22 18:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*39*		*15 - 110*	*06/09/22 14:44*	*06/10/22 18:04*	*1*

Client Sample ID: MW-1A
Date Collected: 06/08/22 10:30
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198818-1
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.6		ng/L		06/13/22 08:55	06/13/22 19:27	1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:27	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:27	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:27	1
Perfluorooctanoic acid (PFOA)	**2.5**		1.8		ng/L		06/13/22 08:55	06/13/22 19:27	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:27	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:27	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:27	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:27	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:27	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:27	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:27	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:27	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:27	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:27	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:27	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.6		ng/L		06/13/22 08:55	06/13/22 19:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.6		ng/L		06/13/22 08:55	06/13/22 19:27	1
6:2 FTS	ND		4.6		ng/L		06/13/22 08:55	06/13/22 19:27	1
8:2 FTS	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:27	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*84*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:27*	*1*
13C4 PFBA	*111*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:27*	*1*
13C5 PFPeA	*112*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:27*	*1*
13C2 PFHxA	*102*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:27*	*1*
13C4 PFHpA	*104*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:27*	*1*
13C4 PFOA	*99*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:27*	*1*
13C5 PFNA	*97*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:27*	*1*
13C2 PFDA	*96*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:27*	*1*
13C2 PFUnA	*94*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:27*	*1*
13C2 PFDoA	*91*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:27*	*1*
13C2 PFTeDA	*86*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:27*	*1*
13C3 PFBS	*94*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:27*	*1*
18O2 PFHxS	*91*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:27*	*1*
13C4 PFOS	*85*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:27*	*1*
d3-NMeFOSAA	*116*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:27*	*1*
d5-NEtFOSAA	*114*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:27*	*1*
M2-6:2 FTS	*92*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:27*	*1*
M2-8:2 FTS	*91*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:27*	*1*

Client Sample ID: MW-2A
Date Collected: 06/08/22 10:45
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198818-2
Matrix: Water

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**3.6**		0.20		ug/L		06/09/22 14:44	06/10/22 18:27	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*35*		*15 - 110*	*06/09/22 14:44*	*06/10/22 18:27*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**5.3**		4.3		ng/L		06/13/22 08:55	06/13/22 19:36	1
Perfluoropentanoic acid (PFPeA)	**2.2**		1.7		ng/L		06/13/22 08:55	06/13/22 19:36	1
Perfluorohexanoic acid (PFHxA)	**6.6**		1.7		ng/L		06/13/22 08:55	06/13/22 19:36	1
Perfluoroheptanoic acid (PFHpA)	**3.3**		1.7		ng/L		06/13/22 08:55	06/13/22 19:36	1
Perfluorooctanoic acid (PFOA)	**12**		1.7		ng/L		06/13/22 08:55	06/13/22 19:36	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		06/13/22 08:55	06/13/22 19:36	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		06/13/22 08:55	06/13/22 19:36	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		06/13/22 08:55	06/13/22 19:36	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		06/13/22 08:55	06/13/22 19:36	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		06/13/22 08:55	06/13/22 19:36	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		06/13/22 08:55	06/13/22 19:36	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		06/13/22 08:55	06/13/22 19:36	1
Perfluorohexanesulfonic acid (PFHxS)	**2.4**		1.7		ng/L		06/13/22 08:55	06/13/22 19:36	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7		ng/L		06/13/22 08:55	06/13/22 19:36	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		06/13/22 08:55	06/13/22 19:36	1
Perfluorooctanesulfonic acid (PFOS)	**18**		1.7		ng/L		06/13/22 08:55	06/13/22 19:36	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7		ng/L		06/13/22 08:55	06/13/22 19:36	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3		ng/L		06/13/22 08:55	06/13/22 19:36	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**4.7**		4.3		ng/L		06/13/22 08:55	06/13/22 19:36	1
6:2 FTS	ND		4.3		ng/L		06/13/22 08:55	06/13/22 19:36	1
8:2 FTS	ND		1.7		ng/L		06/13/22 08:55	06/13/22 19:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*74*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:36*	*1*
13C4 PFBA	*84*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:36*	*1*
13C5 PFPeA	*106*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:36*	*1*
13C2 PFHxA	*93*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:36*	*1*
13C4 PFHpA	*102*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:36*	*1*
13C4 PFOA	*101*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:36*	*1*
13C5 PFNA	*93*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:36*	*1*
13C2 PFDA	*89*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:36*	*1*
13C2 PFUnA	*81*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:36*	*1*
13C2 PFDoA	*79*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:36*	*1*
13C2 PFTeDA	*75*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:36*	*1*
13C3 PFBS	*91*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:36*	*1*
18O2 PFHxS	*89*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:36*	*1*
13C4 PFOS	*79*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:36*	*1*
d3-NMeFOSAA	*109*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:36*	*1*
d5-NEtFOSAA	*105*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:36*	*1*
M2-6:2 FTS	*106*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:36*	*1*

Client Sample ID: MW-2A

Date Collected: 06/08/22 10:45
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198818-2

Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-8:2 FTS	89		50 - 150	06/13/22 08:55	06/13/22 19:36	1

Client Sample ID: MW-2B

Date Collected: 06/08/22 11:15
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198818-3

Matrix: Water

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**15**		2.0		ug/L		06/09/22 14:44	06/10/22 18:49	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	35		15 - 110	06/09/22 14:44	06/10/22 18:49	10

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**10**		4.2		ng/L		06/13/22 08:55	06/13/22 19:44	1
Perfluoropentanoic acid (PFPeA)	**8.6**		1.7		ng/L		06/13/22 08:55	06/13/22 19:44	1
Perfluorohexanoic acid (PFHxA)	**15**		1.7		ng/L		06/13/22 08:55	06/13/22 19:44	1
Perfluoroheptanoic acid (PFHpA)	**8.1**		1.7		ng/L		06/13/22 08:55	06/13/22 19:44	1
Perfluorooctanoic acid (PFOA)	**22**		1.7		ng/L		06/13/22 08:55	06/13/22 19:44	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		06/13/22 08:55	06/13/22 19:44	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		06/13/22 08:55	06/13/22 19:44	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		06/13/22 08:55	06/13/22 19:44	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		06/13/22 08:55	06/13/22 19:44	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		06/13/22 08:55	06/13/22 19:44	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		06/13/22 08:55	06/13/22 19:44	1
Perfluorobutanesulfonic acid (PFBS)	**2.4**		1.7		ng/L		06/13/22 08:55	06/13/22 19:44	1
Perfluorohexanesulfonic acid (PFHxS)	**3.6**		1.7		ng/L		06/13/22 08:55	06/13/22 19:44	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7		ng/L		06/13/22 08:55	06/13/22 19:44	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		06/13/22 08:55	06/13/22 19:44	1
Perfluorooctanesulfonic acid (PFOS)	**13**		1.7		ng/L		06/13/22 08:55	06/13/22 19:44	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7		ng/L		06/13/22 08:55	06/13/22 19:44	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.2		ng/L		06/13/22 08:55	06/13/22 19:44	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**5.3**		4.2		ng/L		06/13/22 08:55	06/13/22 19:44	1
6:2 FTS	ND		4.2		ng/L		06/13/22 08:55	06/13/22 19:44	1
8:2 FTS	ND		1.7		ng/L		06/13/22 08:55	06/13/22 19:44	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	78		50 - 150	06/13/22 08:55	06/13/22 19:44	1
13C4 PFBA	76		50 - 150	06/13/22 08:55	06/13/22 19:44	1
13C5 PFPeA	97		50 - 150	06/13/22 08:55	06/13/22 19:44	1
13C2 PFHxA	93		50 - 150	06/13/22 08:55	06/13/22 19:44	1
13C4 PFHpA	96		50 - 150	06/13/22 08:55	06/13/22 19:44	1
13C4 PFOA	100		50 - 150	06/13/22 08:55	06/13/22 19:44	1
13C5 PFNA	96		50 - 150	06/13/22 08:55	06/13/22 19:44	1
13C2 PFDA	99		50 - 150	06/13/22 08:55	06/13/22 19:44	1
13C2 PFUnA	90		50 - 150	06/13/22 08:55	06/13/22 19:44	1

Client Sample ID: MW-2B
Lab Sample ID: 480-198818-3
Date Collected: 06/08/22 11:15
Matrix: Water
Date Received: 06/09/22 09:00

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

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDoA	*80*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:44*	*1*
13C2 PFTeDA	*88*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:44*	*1*
13C3 PFBS	*83*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:44*	*1*
18O2 PFHxS	*85*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:44*	*1*
13C4 PFOS	*83*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:44*	*1*
d3-NMeFOSAA	*112*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:44*	*1*
d5-NEtFOSAA	*113*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:44*	*1*
M2-6:2 FTS	*110*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:44*	*1*
M2-8:2 FTS	*94*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:44*	*1*

Client Sample ID: MW-6A
Lab Sample ID: 480-198818-4
Date Collected: 06/08/22 11:55
Matrix: Water
Date Received: 06/09/22 09:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		06/09/22 14:44	06/10/22 19:10	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*41*		*15 - 110*	*06/09/22 14:44*	*06/10/22 19:10*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.6		ng/L		06/13/22 08:55	06/13/22 19:52	1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:52	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:52	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:52	1
Perfluorooctanoic acid (PFOA)	**2.6**		1.8		ng/L		06/13/22 08:55	06/13/22 19:52	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:52	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:52	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:52	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:52	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:52	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:52	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:52	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:52	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:52	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:52	1
Perfluorooctanesulfonic acid (PFOS)	**3.1**		1.8		ng/L		06/13/22 08:55	06/13/22 19:52	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.6		ng/L		06/13/22 08:55	06/13/22 19:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.6		ng/L		06/13/22 08:55	06/13/22 19:52	1
6:2 FTS	ND		4.6		ng/L		06/13/22 08:55	06/13/22 19:52	1
8:2 FTS	ND		1.8		ng/L		06/13/22 08:55	06/13/22 19:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*67*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:52*	*1*
13C4 PFBA	*100*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:52*	*1*
13C5 PFPeA	*101*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:52*	*1*

Client Sample ID: MW-6A
Lab Sample ID: 480-198818-4

Date Collected: 06/08/22 11:55
Matrix: Water
Date Received: 06/09/22 09:00

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

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFHxA	*101*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:52*	*1*
13C4 PFHpA	*99*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:52*	*1*
13C4 PFOA	*96*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:52*	*1*
13C5 PFNA	*90*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:52*	*1*
13C2 PFDA	*84*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:52*	*1*
13C2 PFUnA	*79*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:52*	*1*
13C2 PFDoA	*72*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:52*	*1*
13C2 PFTeDA	*56*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:52*	*1*
13C3 PFBS	*88*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:52*	*1*
18O2 PFHxS	*89*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:52*	*1*
13C4 PFOS	*79*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:52*	*1*
d3-NMeFOSAA	*103*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:52*	*1*
d5-NEtFOSAA	*104*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:52*	*1*
M2-6:2 FTS	*91*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:52*	*1*
M2-8:2 FTS	*84*		*50 - 150*	*06/13/22 08:55*	*06/13/22 19:52*	*1*

Client Sample ID: MW-6B
Lab Sample ID: 480-198818-5

Date Collected: 06/08/22 12:15
Matrix: Water
Date Received: 06/09/22 09:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		06/09/22 14:44	06/10/22 19:33	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*37*		*15 - 110*	*06/09/22 14:44*	*06/10/22 19:33*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.4		ng/L		06/13/22 08:55	06/13/22 20:00	1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 20:00	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 20:00	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 20:00	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 20:00	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 20:00	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 20:00	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 20:00	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 20:00	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 20:00	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 20:00	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 20:00	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 20:00	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 20:00	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 20:00	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 20:00	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L		06/13/22 08:55	06/13/22 20:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4		ng/L		06/13/22 08:55	06/13/22 20:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4		ng/L		06/13/22 08:55	06/13/22 20:00	1
6:2 FTS	ND		4.4		ng/L		06/13/22 08:55	06/13/22 20:00	1

Client Sample ID: MW-6B
Date Collected: 06/08/22 12:15
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198818-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8:2 FTS	ND		1.8		ng/L		06/13/22 08:55	06/13/22 20:00	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*80*		*50 - 150*	*06/13/22 08:55*	*06/13/22 20:00*	*1*
13C4 PFBA	*147*		*50 - 150*	*06/13/22 08:55*	*06/13/22 20:00*	*1*
13C5 PFPeA	*111*		*50 - 150*	*06/13/22 08:55*	*06/13/22 20:00*	*1*
13C2 PFHxA	*103*		*50 - 150*	*06/13/22 08:55*	*06/13/22 20:00*	*1*
13C4 PFHpA	*107*		*50 - 150*	*06/13/22 08:55*	*06/13/22 20:00*	*1*
13C4 PFOA	*100*		*50 - 150*	*06/13/22 08:55*	*06/13/22 20:00*	*1*
13C5 PFNA	*109*		*50 - 150*	*06/13/22 08:55*	*06/13/22 20:00*	*1*
13C2 PFDA	*96*		*50 - 150*	*06/13/22 08:55*	*06/13/22 20:00*	*1*
13C2 PFUnA	*105*		*50 - 150*	*06/13/22 08:55*	*06/13/22 20:00*	*1*
13C2 PFDoA	*80*		*50 - 150*	*06/13/22 08:55*	*06/13/22 20:00*	*1*
13C2 PFTeDA	*87*		*50 - 150*	*06/13/22 08:55*	*06/13/22 20:00*	*1*
13C3 PFBS	*93*		*50 - 150*	*06/13/22 08:55*	*06/13/22 20:00*	*1*
18O2 PFHxS	*90*		*50 - 150*	*06/13/22 08:55*	*06/13/22 20:00*	*1*
13C4 PFOS	*86*		*50 - 150*	*06/13/22 08:55*	*06/13/22 20:00*	*1*
d3-NMeFOSAA	*112*		*50 - 150*	*06/13/22 08:55*	*06/13/22 20:00*	*1*
d5-NEtFOSAA	*135*		*50 - 150*	*06/13/22 08:55*	*06/13/22 20:00*	*1*
M2-6:2 FTS	*96*		*50 - 150*	*06/13/22 08:55*	*06/13/22 20:00*	*1*
M2-8:2 FTS	*93*		*50 - 150*	*06/13/22 08:55*	*06/13/22 20:00*	*1*

Surrogate Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee LF Baseline Q2 2022

Job ID: 480-198720-1
SDG: 198720

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	TOL	BFB
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)
480-198720-1	CD-1	102	96	102
480-198720-2	CD-1RA	102	95	102
480-198720-3	MW-1B	102	95	104
480-198720-4	DUP CD-1RA	103	97	104
480-198720-5	TRIP BLANK 1	103	94	105
480-198813-1	MW-1A	82	91	93
480-198813-2	MW-2A	85	92	105
480-198813-3	MW-2B	85	93	101
480-198813-4	MW-3A	91	98	103
480-198813-5	MW-3B	86	92	105
480-198813-6	MW-4A	94	91	102
480-198813-7	MW-5A	92	91	112
480-198813-8	MW-6A	83	89	104
480-198813-9	MW-6B	83	91	107
480-198813-10	MW-7A	83	91	106
480-198813-11	TRIP BLANK 1	87	91	107
LCS 480-629695/6	Lab Control Sample	107	98	96
LCS 480-630178/6	Lab Control Sample	92	93	102
LCSD 480-629695/7	Lab Control Sample Dup	102	98	97
MB 480-629695/9	Method Blank	102	98	102
MB 480-630178/8	Method Blank	90	91	101

Surrogate Legend

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

Isotope Dilution Summary

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-198720-1
Project/Site: Towslee LF Baseline Q2 2022
SDG: 198720

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DXE (15-110)							
480-198722-1	CD-1	33							
480-198722-2	CD-1RA	36							
480-198722-3	MW-1B	35							
480-198818-1	MW-1A	39							
480-198818-2	MW-2A	35							
480-198818-3	MW-2B	35							
480-198818-4	MW-6A	41							
480-198818-5	MW-6B	37							
LCS 480-629117/2-A	Lab Control Sample	38							
LCS 480-629476/2-A	Lab Control Sample	38							
LCSD 480-629117/3-A	Lab Control Sample Dup	38							
MB 480-629117/1-A	Method Blank	39							
MB 480-629476/1-A	Method Blank	39							

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 537 (modified) - Fluorinated Alkyl Substances

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (50-150)	PFBA (50-150)	PFPeA (50-150)	PFHxA (50-150)	C4PFHA (50-150)	PFOA (50-150)	PFNA (50-150)	PFDA (50-150)
480-198722-1	CD-1	82	111	108	108	104	102	97	89
480-198722-2	CD-1RA	77	106	105	99	100	100	85	82
480-198722-3	MW-1B	83	104	104	100	106	97	88	88
480-198818-1	MW-1A	84	111	112	102	104	99	97	96
480-198818-2	MW-2A	74	84	106	93	102	101	93	89
480-198818-3	MW-2B	78	76	97	93	96	100	96	99
480-198818-4	MW-6A	67	100	101	101	99	96	90	84
480-198818-5	MW-6B	80	147	111	103	107	100	109	96
LCS 200-180717/2-A	Lab Control Sample	81	114	112	105	100	97	96	96
LCSD 200-180717/3-A	Lab Control Sample Dup	71	114	107	105	99	97	95	93
MB 200-180717/1-A	Method Blank	79	113	109	108	106	97	96	94

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFUnA (50-150)	PFDoA (50-150)	PFTDA (50-150)	C3PFBS (50-150)	PFHxS (50-150)	PFOS (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)
480-198722-1	CD-1	81	72	72	90	90	80	104	99
480-198722-2	CD-1RA	76	70	73	91	88	76	98	101
480-198722-3	MW-1B	82	77	78	91	89	81	108	109
480-198818-1	MW-1A	94	91	86	94	91	85	116	114
480-198818-2	MW-2A	81	79	75	91	89	79	109	105
480-198818-3	MW-2B	90	80	88	83	85	83	112	113
480-198818-4	MW-6A	79	72	56	88	89	79	103	104
480-198818-5	MW-6B	105	80	87	93	90	86	112	135
LCS 200-180717/2-A	Lab Control Sample	95	92	90	100	92	86	120	117
LCSD 200-180717/3-A	Lab Control Sample Dup	86	77	76	92	88	85	113	108
MB 200-180717/1-A	Method Blank	91	81	83	98	91	87	110	110

Isotope Dilution Summary

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-198720-1
Project/Site: Towslee LF Baseline Q2 2022
SDG: 198720

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

Matrix: Water
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (50-150)	M282FTS (50-150)						
480-198722-1	CD-1	91	88						
480-198722-2	CD-1RA	87	86						
480-198722-3	MW-1B	90	89						
480-198818-1	MW-1A	92	91						
480-198818-2	MW-2A	106	89						
480-198818-3	MW-2B	110	94						
480-198818-4	MW-6A	91	84						
480-198818-5	MW-6B	96	93						
LCS 200-180717/2-A	Lab Control Sample	91	93						
LCSD 200-180717/3-A	Lab Control Sample Dup	90	90						
MB 200-180717/1-A	Method Blank	90	92						

Surrogate Legend

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

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

Lab Sample ID: MB 480-629695/9
Matrix: Water
Analysis Batch: 629695

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/12/22 01:04	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/12/22 01:04	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/12/22 01:04	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/12/22 01:04	1
1,1-Dichloroethane	ND		1.0		ug/L			06/12/22 01:04	1
1,1-Dichloroethene	ND		1.0		ug/L			06/12/22 01:04	1
1,2,3-Trichloropropane	ND		1.0		ug/L			06/12/22 01:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/12/22 01:04	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/12/22 01:04	1
1,2-Dichloroethane	ND		1.0		ug/L			06/12/22 01:04	1
1,2-Dichloropropane	ND		1.0		ug/L			06/12/22 01:04	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/12/22 01:04	1
2-Butanone (MEK)	ND		10		ug/L			06/12/22 01:04	1
2-Hexanone	ND		5.0		ug/L			06/12/22 01:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			06/12/22 01:04	1
Acetone	ND		10		ug/L			06/12/22 01:04	1
Acrylonitrile	ND		5.0		ug/L			06/12/22 01:04	1
Benzene	ND		1.0		ug/L			06/12/22 01:04	1
Chlorobromomethane	ND		1.0		ug/L			06/12/22 01:04	1
Bromodichloromethane	ND		1.0		ug/L			06/12/22 01:04	1
Bromoform	ND		1.0		ug/L			06/12/22 01:04	1
Bromomethane	ND		1.0		ug/L			06/12/22 01:04	1
Carbon disulfide	ND		1.0		ug/L			06/12/22 01:04	1
Carbon tetrachloride	ND		1.0		ug/L			06/12/22 01:04	1
Chlorobenzene	ND		1.0		ug/L			06/12/22 01:04	1
Dibromochloromethane	ND		1.0		ug/L			06/12/22 01:04	1
Chloroethane	ND		1.0		ug/L			06/12/22 01:04	1
Chloroform	ND		1.0		ug/L			06/12/22 01:04	1
Chloromethane	ND		1.0		ug/L			06/12/22 01:04	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/12/22 01:04	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/12/22 01:04	1
Dibromomethane	ND		1.0		ug/L			06/12/22 01:04	1
Ethylbenzene	ND		1.0		ug/L			06/12/22 01:04	1
1,2-Dibromoethane	ND		1.0		ug/L			06/12/22 01:04	1
Iodomethane	ND		1.0		ug/L			06/12/22 01:04	1
Methylene Chloride	ND		1.0		ug/L			06/12/22 01:04	1
Styrene	ND		1.0		ug/L			06/12/22 01:04	1
Tetrachloroethene	ND		1.0		ug/L			06/12/22 01:04	1
Trichlorofluoromethane	ND		1.0		ug/L			06/12/22 01:04	1
Trichloroethene	ND		1.0		ug/L			06/12/22 01:04	1
Toluene	ND		1.0		ug/L			06/12/22 01:04	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/12/22 01:04	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/12/22 01:04	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			06/12/22 01:04	1
Vinyl acetate	ND		5.0		ug/L			06/12/22 01:04	1
Vinyl chloride	ND		1.0		ug/L			06/12/22 01:04	1
Xylenes, Total	ND		2.0		ug/L			06/12/22 01:04	1
m,p-Xylene	ND		2.0		ug/L			06/12/22 01:04	1

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

Lab Sample ID: MB 480-629695/9
Matrix: Water
Analysis Batch: 629695

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			06/12/22 01:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*06/12/22 01:04*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/12/22 01:04*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*06/12/22 01:04*	*1*

Lab Sample ID: LCS 480-629695/6
Matrix: Water
Analysis Batch: 629695

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	25.0	25.8		ug/L		103	80 - 120
1,1,1-Trichloroethane	25.0	25.9		ug/L		104	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.4		ug/L		106	76 - 120
1,1,2-Trichloroethane	25.0	25.7		ug/L		103	76 - 122
1,1-Dichloroethane	25.0	27.3		ug/L		109	77 - 120
1,1-Dichloroethene	25.0	25.5		ug/L		102	66 - 127
1,2,3-Trichloropropane	25.0	26.7		ug/L		107	68 - 122
1,2-Dibromo-3-Chloropropane	25.0	27.5		ug/L		110	56 - 134
1,2-Dichlorobenzene	25.0	26.3		ug/L		105	80 - 124
1,2-Dichloroethane	25.0	24.9		ug/L		100	75 - 120
1,2-Dichloropropane	25.0	26.7		ug/L		107	76 - 120
1,4-Dichlorobenzene	25.0	25.6		ug/L		103	80 - 120
2-Butanone (MEK)	125	213	*+	ug/L		171	57 - 140
2-Hexanone	125	110		ug/L		88	65 - 127
4-Methyl-2-pentanone (MIBK)	125	118		ug/L		94	71 - 125
Acetone	125	114		ug/L		91	56 - 142
Acrylonitrile	250	244		ug/L		98	63 - 125
Benzene	25.0	26.7		ug/L		107	71 - 124
Chlorobromomethane	25.0	26.0		ug/L		104	72 - 130
Bromodichloromethane	25.0	27.1		ug/L		108	80 - 122
Bromoform	25.0	25.9		ug/L		104	61 - 132
Bromomethane	25.0	24.0		ug/L		96	55 - 144
Carbon disulfide	25.0	26.9		ug/L		108	59 - 134
Carbon tetrachloride	25.0	25.6		ug/L		102	72 - 134
Chlorobenzene	25.0	25.6		ug/L		103	80 - 120
Dibromochloromethane	25.0	26.1		ug/L		105	75 - 125
Chloroethane	25.0	24.7		ug/L		99	69 - 136
Chloroform	25.0	25.1		ug/L		100	73 - 127
Chloromethane	25.0	22.6		ug/L		90	68 - 124
cis-1,2-Dichloroethene	25.0	27.1		ug/L		108	74 - 124
cis-1,3-Dichloropropene	25.0	29.2		ug/L		117	74 - 124
Dibromomethane	25.0	25.6		ug/L		102	76 - 127
Ethylbenzene	25.0	25.2		ug/L		101	77 - 123
1,2-Dibromoethane	25.0	26.3		ug/L		105	77 - 120
Iodomethane	25.0	26.9		ug/L		108	78 - 123
Methylene Chloride	25.0	25.8		ug/L		103	75 - 124

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

Lab Sample ID: LCS 480-629695/6
Matrix: Water
Analysis Batch: 629695

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Styrene			25.0	26.0		ug/L		104	80 - 120		
Tetrachloroethene			25.0	26.8		ug/L		107	74 - 122		
Trichlorofluoromethane			25.0	25.9		ug/L		104	62 - 150		
Trichloroethene			25.0	27.8		ug/L		111	74 - 123		
Toluene			25.0	26.5		ug/L		106	80 - 122		
trans-1,2-Dichloroethene			25.0	27.6		ug/L		110	73 - 127		
trans-1,3-Dichloropropene			25.0	27.6		ug/L		110	80 - 120		
trans-1,4-Dichloro-2-butene			25.0	23.2		ug/L		93	41 - 131		
Vinyl acetate			50.0	71.5		ug/L		143	50 - 144		
Vinyl chloride			25.0	25.1		ug/L		100	65 - 133		
m,p-Xylene			25.0	24.8		ug/L		99	76 - 122		
o-Xylene			25.0	24.5		ug/L		98	76 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*

Lab Sample ID: LCSD 480-629695/7
Matrix: Water
Analysis Batch: 629695

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			25.0	24.5		ug/L		98	80 - 120	5	20
1,1,1-Trichloroethane			25.0	23.9		ug/L		96	73 - 126	8	15
1,1,2,2-Tetrachloroethane			25.0	26.5		ug/L		106	76 - 120	0	15
1,1,2-Trichloroethane			25.0	25.6		ug/L		102	76 - 122	1	15
1,1-Dichloroethane			25.0	25.5		ug/L		102	77 - 120	7	20
1,1-Dichloroethene			25.0	23.6		ug/L		94	66 - 127	8	16
1,2,3-Trichloropropane			25.0	26.7		ug/L		107	68 - 122	0	14
1,2-Dibromo-3-Chloropropane			25.0	27.6		ug/L		111	56 - 134	0	15
1,2-Dichlorobenzene			25.0	25.4		ug/L		102	80 - 124	3	20
1,2-Dichloroethane			25.0	24.2		ug/L		97	75 - 120	3	20
1,2-Dichloropropane			25.0	25.9		ug/L		104	76 - 120	3	20
1,4-Dichlorobenzene			25.0	25.1		ug/L		101	80 - 120	2	20
2-Butanone (MEK)			125	213	*+	ug/L		170	57 - 140	0	20
2-Hexanone			125	110		ug/L		88	65 - 127	1	15
4-Methyl-2-pentanone (MIBK)			125	115		ug/L		92	71 - 125	3	35
Acetone			125	107		ug/L		86	56 - 142	6	15
Acrylonitrile			250	234		ug/L		94	63 - 125	4	20
Benzene			25.0	25.3		ug/L		101	71 - 124	5	13
Chlorobromomethane			25.0	24.6		ug/L		98	72 - 130	6	15
Bromodichloromethane			25.0	26.0		ug/L		104	80 - 122	4	15
Bromoform			25.0	25.4		ug/L		102	61 - 132	2	15
Bromomethane			25.0	21.4		ug/L		86	55 - 144	11	15
Carbon disulfide			25.0	24.6		ug/L		99	59 - 134	9	15
Carbon tetrachloride			25.0	23.9		ug/L		95	72 - 134	7	15
Chlorobenzene			25.0	25.0		ug/L		100	80 - 120	3	25

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

Lab Sample ID: LCSD 480-629695/7
Matrix: Water
Analysis Batch: 629695

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dibromochloromethane			25.0	25.8		ug/L		103	75 - 125	1	15
Chloroethane			25.0	22.3		ug/L		89	69 - 136	10	15
Chloroform			25.0	23.5		ug/L		94	73 - 127	7	20
Chloromethane			25.0	19.5		ug/L		78	68 - 124	15	15
cis-1,2-Dichloroethene			25.0	25.4		ug/L		102	74 - 124	6	15
cis-1,3-Dichloropropene			25.0	28.7		ug/L		115	74 - 124	2	15
Dibromomethane			25.0	25.3		ug/L		101	76 - 127	1	15
Ethylbenzene			25.0	23.5		ug/L		94	77 - 123	7	15
1,2-Dibromoethane			25.0	26.2		ug/L		105	77 - 120	0	15
Iodomethane			25.0	25.2		ug/L		101	78 - 123	6	20
Methylene Chloride			25.0	24.5		ug/L		98	75 - 124	5	15
Styrene			25.0	25.1		ug/L		100	80 - 120	4	20
Tetrachloroethene			25.0	25.9		ug/L		103	74 - 122	3	20
Trichlorofluoromethane			25.0	23.7		ug/L		95	62 - 150	9	20
Trichloroethene			25.0	26.5		ug/L		106	74 - 123	5	16
Toluene			25.0	25.6		ug/L		102	80 - 122	3	15
trans-1,2-Dichloroethene			25.0	25.9		ug/L		104	73 - 127	6	20
trans-1,3-Dichloropropene			25.0	27.2		ug/L		109	80 - 120	1	15
trans-1,4-Dichloro-2-butene			25.0	23.8		ug/L		95	41 - 131	2	20
Vinyl acetate			50.0	69.1		ug/L		138	50 - 144	3	23
Vinyl chloride			25.0	22.5		ug/L		90	65 - 133	11	15
m,p-Xylene			25.0	23.7		ug/L		95	76 - 122	5	16
o-Xylene			25.0	23.8		ug/L		95	76 - 122	3	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*

Lab Sample ID: MB 480-630178/8
Matrix: Water
Analysis Batch: 630178

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/15/22 20:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/15/22 20:59	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/15/22 20:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/15/22 20:59	1
1,1-Dichloroethane	ND		1.0		ug/L			06/15/22 20:59	1
1,1-Dichloroethene	ND		1.0		ug/L			06/15/22 20:59	1
1,2,3-Trichloropropane	ND		1.0		ug/L			06/15/22 20:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/15/22 20:59	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/15/22 20:59	1
1,2-Dichloroethane	ND		1.0		ug/L			06/15/22 20:59	1
1,2-Dichloropropane	ND		1.0		ug/L			06/15/22 20:59	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/15/22 20:59	1
2-Butanone (MEK)	ND		10		ug/L			06/15/22 20:59	1
2-Hexanone	ND		5.0		ug/L			06/15/22 20:59	1

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

Lab Sample ID: MB 480-630178/8
Matrix: Water
Analysis Batch: 630178

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			06/15/22 20:59	1
Acetone	ND		10		ug/L			06/15/22 20:59	1
Acrylonitrile	ND		5.0		ug/L			06/15/22 20:59	1
Benzene	ND		1.0		ug/L			06/15/22 20:59	1
Chlorobromomethane	ND		1.0		ug/L			06/15/22 20:59	1
Bromodichloromethane	ND		1.0		ug/L			06/15/22 20:59	1
Bromoform	ND		1.0		ug/L			06/15/22 20:59	1
Bromomethane	ND		1.0		ug/L			06/15/22 20:59	1
Carbon disulfide	ND		1.0		ug/L			06/15/22 20:59	1
Carbon tetrachloride	ND		1.0		ug/L			06/15/22 20:59	1
Chlorobenzene	ND		1.0		ug/L			06/15/22 20:59	1
Dibromochloromethane	ND		1.0		ug/L			06/15/22 20:59	1
Chloroethane	ND		1.0		ug/L			06/15/22 20:59	1
Chloroform	ND		1.0		ug/L			06/15/22 20:59	1
Chloromethane	ND		1.0		ug/L			06/15/22 20:59	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/15/22 20:59	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/15/22 20:59	1
Dibromomethane	ND		1.0		ug/L			06/15/22 20:59	1
Ethylbenzene	ND		1.0		ug/L			06/15/22 20:59	1
1,2-Dibromoethane	ND		1.0		ug/L			06/15/22 20:59	1
Iodomethane	ND		1.0		ug/L			06/15/22 20:59	1
Methylene Chloride	ND		1.0		ug/L			06/15/22 20:59	1
Styrene	ND		1.0		ug/L			06/15/22 20:59	1
Tetrachloroethene	ND		1.0		ug/L			06/15/22 20:59	1
Trichlorofluoromethane	ND		1.0		ug/L			06/15/22 20:59	1
Trichloroethene	ND		1.0		ug/L			06/15/22 20:59	1
Toluene	ND		1.0		ug/L			06/15/22 20:59	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/15/22 20:59	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/15/22 20:59	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			06/15/22 20:59	1
Vinyl acetate	ND		5.0		ug/L			06/15/22 20:59	1
Vinyl chloride	ND		1.0		ug/L			06/15/22 20:59	1
Xylenes, Total	ND		2.0		ug/L			06/15/22 20:59	1
m,p-Xylene	ND		2.0		ug/L			06/15/22 20:59	1
o-Xylene	ND		1.0		ug/L			06/15/22 20:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*77 - 120*		*06/15/22 20:59*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*06/15/22 20:59*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*06/15/22 20:59*	*1*

Lab Sample ID: LCS 480-630178/6
Matrix: Water
Analysis Batch: 630178

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	25.0	22.1		ug/L		88	80 - 120
1,1,1-Trichloroethane	25.0	23.3		ug/L		93	73 - 126

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

Lab Sample ID: LCS 480-630178/6
Matrix: Water
Analysis Batch: 630178

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2,2-Tetrachloroethane	25.0	23.0		ug/L		92	76 - 120
1,1,2-Trichloroethane	25.0	22.6		ug/L		90	76 - 122
1,1-Dichloroethane	25.0	22.9		ug/L		92	77 - 120
1,1-Dichloroethene	25.0	22.3		ug/L		89	66 - 127
1,2,3-Trichloropropane	25.0	21.7		ug/L		87	68 - 122
1,2-Dibromo-3-Chloropropane	25.0	21.5		ug/L		86	56 - 134
1,2-Dichlorobenzene	25.0	23.7		ug/L		95	80 - 124
1,2-Dichloroethane	25.0	23.0		ug/L		92	75 - 120
1,2-Dichloropropane	25.0	23.7		ug/L		95	76 - 120
1,4-Dichlorobenzene	25.0	23.0		ug/L		92	80 - 120
2-Butanone (MEK)	125	115		ug/L		92	57 - 140
2-Hexanone	125	116		ug/L		93	65 - 127
4-Methyl-2-pentanone (MIBK)	125	113		ug/L		90	71 - 125
Acetone	125	127		ug/L		102	56 - 142
Acrylonitrile	250	226		ug/L		90	63 - 125
Benzene	25.0	23.3		ug/L		93	71 - 124
Chlorobromomethane	25.0	23.3		ug/L		93	72 - 130
Bromodichloromethane	25.0	23.6		ug/L		95	80 - 122
Bromoform	25.0	22.4		ug/L		90	61 - 132
Bromomethane	25.0	24.6		ug/L		98	55 - 144
Carbon disulfide	25.0	21.4		ug/L		85	59 - 134
Carbon tetrachloride	25.0	23.2		ug/L		93	72 - 134
Chlorobenzene	25.0	22.8		ug/L		91	80 - 120
Dibromochloromethane	25.0	22.4		ug/L		90	75 - 125
Chloroethane	25.0	23.5		ug/L		94	69 - 136
Chloroform	25.0	23.1		ug/L		92	73 - 127
Chloromethane	25.0	24.0		ug/L		96	68 - 124
cis-1,2-Dichloroethene	25.0	23.0		ug/L		92	74 - 124
cis-1,3-Dichloropropene	25.0	23.8		ug/L		95	74 - 124
Dibromomethane	25.0	24.3		ug/L		97	76 - 127
Ethylbenzene	25.0	22.8		ug/L		91	77 - 123
1,2-Dibromoethane	25.0	23.3		ug/L		93	77 - 120
Iodomethane	25.0	23.8		ug/L		95	78 - 123
Methylene Chloride	25.0	24.2		ug/L		97	75 - 124
Styrene	25.0	24.1		ug/L		96	80 - 120
Tetrachloroethene	25.0	22.6		ug/L		91	74 - 122
Trichlorofluoromethane	25.0	26.0		ug/L		104	62 - 150
Trichloroethene	25.0	23.1		ug/L		93	74 - 123
Toluene	25.0	22.5		ug/L		90	80 - 122
trans-1,2-Dichloroethene	25.0	23.3		ug/L		93	73 - 127
trans-1,3-Dichloropropene	25.0	22.7		ug/L		91	80 - 120
trans-1,4-Dichloro-2-butene	25.0	17.5		ug/L		70	41 - 131
Vinyl acetate	50.0	46.1		ug/L		92	50 - 144
Vinyl chloride	25.0	28.8		ug/L		115	65 - 133
m,p-Xylene	25.0	23.4		ug/L		94	76 - 122
o-Xylene	25.0	23.2		ug/L		93	76 - 122

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

Lab Sample ID: LCS 480-630178/6
Matrix: Water
Analysis Batch: 630178

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*
Toluene-d8 (Surr)	*93*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-629117/1-A
Matrix: Water
Analysis Batch: 629253

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629117

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		06/07/22 15:03	06/08/22 23:40	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	*39*		*15 - 110*	*06/07/22 15:03*	*06/08/22 23:40*	*1*

Lab Sample ID: LCS 480-629117/2-A
Matrix: Water
Analysis Batch: 629253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629117

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			2.00	2.37		ug/L		119	40 - 140		

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
1,4-Dioxane-d8	*38*		*15 - 110*

Lab Sample ID: LCSD 480-629117/3-A
Matrix: Water
Analysis Batch: 629253

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 629117

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			2.00	2.36		ug/L		118	40 - 140	1	20

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Dioxane-d8	*38*		*15 - 110*

Lab Sample ID: MB 480-629476/1-A
Matrix: Water
Analysis Batch: 629619

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629476

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		06/09/22 14:44	06/10/22 15:27	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	*39*		*15 - 110*	*06/09/22 14:44*	*06/10/22 15:27*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Lab Sample ID: LCS 480-629476/2-A
Matrix: Water
Analysis Batch: 629619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629476

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			2.00	2.35		ug/L		118	40 - 140		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*38*		*15 - 110*

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-180717/1-A
Matrix: Water
Analysis Batch: 180744

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180717

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		5.0		ng/L		06/13/22 08:55	06/13/22 17:49	1
Perfluoropentanoic acid (PFPeA)	ND		2.0		ng/L		06/13/22 08:55	06/13/22 17:49	1
Perfluorohexanoic acid (PFHxA)	ND		2.0		ng/L		06/13/22 08:55	06/13/22 17:49	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		06/13/22 08:55	06/13/22 17:49	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		06/13/22 08:55	06/13/22 17:49	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		06/13/22 08:55	06/13/22 17:49	1
Perfluorodecanoic acid (PFDA)	ND		2.0		ng/L		06/13/22 08:55	06/13/22 17:49	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0		ng/L		06/13/22 08:55	06/13/22 17:49	1
Perfluorododecanoic acid (PFDoA)	ND		2.0		ng/L		06/13/22 08:55	06/13/22 17:49	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0		ng/L		06/13/22 08:55	06/13/22 17:49	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0		ng/L		06/13/22 08:55	06/13/22 17:49	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		06/13/22 08:55	06/13/22 17:49	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		06/13/22 08:55	06/13/22 17:49	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0		ng/L		06/13/22 08:55	06/13/22 17:49	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0		ng/L		06/13/22 08:55	06/13/22 17:49	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		06/13/22 08:55	06/13/22 17:49	1
Perfluorooctanesulfonamide (FOSA)	ND		2.0		ng/L		06/13/22 08:55	06/13/22 17:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0		ng/L		06/13/22 08:55	06/13/22 17:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0		ng/L		06/13/22 08:55	06/13/22 17:49	1
6:2 FTS	ND		5.0		ng/L		06/13/22 08:55	06/13/22 17:49	1
8:2 FTS	ND		2.0		ng/L		06/13/22 08:55	06/13/22 17:49	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*79*		*50 - 150*	*06/13/22 08:55*	*06/13/22 17:49*	*1*
13C4 PFBA	*113*		*50 - 150*	*06/13/22 08:55*	*06/13/22 17:49*	*1*
13C5 PFPeA	*109*		*50 - 150*	*06/13/22 08:55*	*06/13/22 17:49*	*1*
13C2 PFHxA	*108*		*50 - 150*	*06/13/22 08:55*	*06/13/22 17:49*	*1*
13C4 PFHpA	*106*		*50 - 150*	*06/13/22 08:55*	*06/13/22 17:49*	*1*
13C4 PFOA	*97*		*50 - 150*	*06/13/22 08:55*	*06/13/22 17:49*	*1*
13C5 PFNA	*96*		*50 - 150*	*06/13/22 08:55*	*06/13/22 17:49*	*1*
13C2 PFDA	*94*		*50 - 150*	*06/13/22 08:55*	*06/13/22 17:49*	*1*
13C2 PFUnA	*91*		*50 - 150*	*06/13/22 08:55*	*06/13/22 17:49*	*1*
13C2 PFDoA	*81*		*50 - 150*	*06/13/22 08:55*	*06/13/22 17:49*	*1*

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

Lab Sample ID: MB 200-180717/1-A
Matrix: Water
Analysis Batch: 180744

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180717

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	83		50 - 150	06/13/22 08:55	06/13/22 17:49	1
13C3 PFBS	98		50 - 150	06/13/22 08:55	06/13/22 17:49	1
18O2 PFHxS	91		50 - 150	06/13/22 08:55	06/13/22 17:49	1
13C4 PFOS	87		50 - 150	06/13/22 08:55	06/13/22 17:49	1
d3-NMeFOSAA	110		50 - 150	06/13/22 08:55	06/13/22 17:49	1
d5-NEtFOSAA	110		50 - 150	06/13/22 08:55	06/13/22 17:49	1
M2-6:2 FTS	90		50 - 150	06/13/22 08:55	06/13/22 17:49	1
M2-8:2 FTS	92		50 - 150	06/13/22 08:55	06/13/22 17:49	1

Lab Sample ID: LCS 200-180717/2-A
Matrix: Water
Analysis Batch: 180744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180717

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	39.9		ng/L		100	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	39.8		ng/L		99	70 - 130
Perfluorohexanoic acid (PFHxA)	40.0	40.3		ng/L		101	70 - 130
Perfluoroheptanoic acid (PFHpA)	40.0	41.1		ng/L		103	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	41.0		ng/L		102	70 - 130
Perfluorononanoic acid (PFNA)	40.0	41.7		ng/L		104	70 - 130
Perfluorodecanoic acid (PFDA)	40.0	39.2		ng/L		98	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	41.9		ng/L		105	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	35.7		ng/L		89	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	39.9		ng/L		100	70 - 130
Perfluorotetradecanoic acid (PFTeA)	40.0	35.1		ng/L		88	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	34.8		ng/L		99	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	36.3		ng/L		100	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	38.1	39.3		ng/L		103	70 - 130
Perfluorodecanesulfonic acid (PFDS)	38.6	37.6		ng/L		98	70 - 130
Perfluorooctanesulfonic acid (PFOS)	37.1	37.8		ng/L		102	70 - 130
Perfluorooctanesulfonamide (FOSA)	40.0	38.5		ng/L		96	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	38.4		ng/L		96	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	39.0		ng/L		98	70 - 130
6:2 FTS	37.9	41.8		ng/L		110	60 - 140
8:2 FTS	38.3	39.9		ng/L		104	70 - 130

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C8 FOSA	81		50 - 150
13C4 PFBA	114		50 - 150
13C5 PFPeA	112		50 - 150

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

Lab Sample ID: LCS 200-180717/2-A
Matrix: Water
Analysis Batch: 180744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180717

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 PFHxA	105		50 - 150
13C4 PFHpA	100		50 - 150
13C4 PFOA	97		50 - 150
13C5 PFNA	96		50 - 150
13C2 PFDA	96		50 - 150
13C2 PFUnA	95		50 - 150
13C2 PFDoA	92		50 - 150
13C2 PFTeDA	90		50 - 150
13C3 PFBS	100		50 - 150
18O2 PFHxS	92		50 - 150
13C4 PFOS	86		50 - 150
d3-NMeFOSAA	120		50 - 150
d5-NEtFOSAA	117		50 - 150
M2-6:2 FTS	91		50 - 150
M2-8:2 FTS	93		50 - 150

Lab Sample ID: LCSD 200-180717/3-A
Matrix: Water
Analysis Batch: 180744

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 180717

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	41.2		ng/L		103	70 - 130	3	30
Perfluoropentanoic acid (PFPeA)			40.0	41.3		ng/L		103	70 - 130	4	30
Perfluorohexanoic acid (PFHxA)			40.0	40.4		ng/L		101	70 - 130	0	30
Perfluoroheptanoic acid (PFHpA)			40.0	43.1		ng/L		108	70 - 130	5	30
Perfluorooctanoic acid (PFOA)			40.0	39.2		ng/L		98	70 - 130	5	30
Perfluorononanoic acid (PFNA)			40.0	42.4		ng/L		106	70 - 130	2	30
Perfluorodecanoic acid (PFDA)			40.0	43.0		ng/L		108	70 - 130	9	30
Perfluoroundecanoic acid (PFUnA)			40.0	43.1		ng/L		108	70 - 130	3	30
Perfluorododecanoic acid (PFDoA)			40.0	41.4		ng/L		104	70 - 130	15	30
Perfluorotridecanoic acid (PFTriA)			40.0	41.7		ng/L		104	70 - 130	4	30
Perfluorotetradecanoic acid (PFTeA)			40.0	37.4		ng/L		93	70 - 130	6	30
Perfluorobutanesulfonic acid (PFBS)			35.4	36.4		ng/L		103	70 - 130	4	30
Perfluorohexanesulfonic acid (PFHxS)			36.4	37.1		ng/L		102	70 - 130	2	30
Perfluoroheptanesulfonic acid (PFHpS)			38.1	39.7		ng/L		104	70 - 130	1	30
Perfluorodecanesulfonic acid (PFDS)			38.6	34.8		ng/L		90	70 - 130	8	30
Perfluorooctanesulfonic acid (PFOS)			37.1	38.2		ng/L		103	70 - 130	1	30
Perfluorooctanesulfonamide (FOSA)			40.0	40.2		ng/L		101	70 - 130	4	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			40.0	39.4		ng/L		98	70 - 130	3	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			40.0	37.8		ng/L		95	70 - 130	3	30

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

Lab Sample ID: LCSD 200-180717/3-A
Matrix: Water
Analysis Batch: 180744

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 180717

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
6:2 FTS			37.9	41.9		ng/L		110	60 - 140	0	30
8:2 FTS			38.3	42.4		ng/L		111	70 - 130	6	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C8 FOSA	*71*		*50 - 150*
13C4 PFBA	*114*		*50 - 150*
13C5 PFPeA	*107*		*50 - 150*
13C2 PFHxA	*105*		*50 - 150*
13C4 PFHpA	*99*		*50 - 150*
13C4 PFOA	*97*		*50 - 150*
13C5 PFNA	*95*		*50 - 150*
13C2 PFDA	*93*		*50 - 150*
13C2 PFUnA	*86*		*50 - 150*
13C2 PFDoA	*77*		*50 - 150*
13C2 PFTeDA	*76*		*50 - 150*
13C3 PFBS	*92*		*50 - 150*
18O2 PFHxS	*88*		*50 - 150*
13C4 PFOS	*85*		*50 - 150*
d3-NMeFOSAA	*113*		*50 - 150*
d5-NEtFOSAA	*108*		*50 - 150*
M2-6:2 FTS	*90*		*50 - 150*
M2-8:2 FTS	*90*		*50 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-629262/1-A
Matrix: Water
Analysis Batch: 629561

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629262

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		06/09/22 13:09	06/10/22 01:18	1
Antimony	ND		0.020		mg/L		06/09/22 13:09	06/10/22 01:18	1
Arsenic	ND		0.015		mg/L		06/09/22 13:09	06/10/22 01:18	1
Barium	ND		0.0020		mg/L		06/09/22 13:09	06/10/22 01:18	1
Beryllium	ND		0.0020		mg/L		06/09/22 13:09	06/10/22 01:18	1
Boron	ND		0.020		mg/L		06/09/22 13:09	06/10/22 01:18	1
Cadmium	ND		0.0020		mg/L		06/09/22 13:09	06/10/22 01:18	1
Calcium	ND		0.50		mg/L		06/09/22 13:09	06/10/22 01:18	1
Chromium	ND		0.0040		mg/L		06/09/22 13:09	06/10/22 01:18	1
Cobalt	ND		0.0040		mg/L		06/09/22 13:09	06/10/22 01:18	1
Copper	ND		0.010		mg/L		06/09/22 13:09	06/10/22 01:18	1
Iron	ND		0.050		mg/L		06/09/22 13:09	06/10/22 01:18	1
Lead	ND		0.010		mg/L		06/09/22 13:09	06/10/22 01:18	1
Magnesium	ND		0.20		mg/L		06/09/22 13:09	06/10/22 01:18	1
Manganese	ND		0.0030		mg/L		06/09/22 13:09	06/10/22 01:18	1
Nickel	ND		0.010		mg/L		06/09/22 13:09	06/10/22 01:18	1
Potassium	ND		0.50		mg/L		06/09/22 13:09	06/10/22 01:18	1
Selenium	ND		0.025		mg/L		06/09/22 13:09	06/10/22 01:18	1
Silver	ND		0.0060		mg/L		06/09/22 13:09	06/10/22 01:18	1

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

Lab Sample ID: MB 480-629262/1-A
Matrix: Water
Analysis Batch: 629561

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629262

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	ND		1.0		mg/L		06/09/22 13:09	06/10/22 01:18	1
Thallium	ND		0.020		mg/L		06/09/22 13:09	06/10/22 01:18	1
Vanadium	ND		0.0050		mg/L		06/09/22 13:09	06/10/22 01:18	1
Zinc	ND		0.010		mg/L		06/09/22 13:09	06/10/22 01:18	1

Lab Sample ID: LCS 480-629262/2-A
Matrix: Water
Analysis Batch: 629561

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629262

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	10.0	9.99		mg/L		100	80 - 120
Antimony	0.200	0.205		mg/L		102	80 - 120
Arsenic	0.200	0.203		mg/L		102	80 - 120
Barium	0.200	0.212		mg/L		106	80 - 120
Beryllium	0.200	0.208		mg/L		104	80 - 120
Boron	0.200	0.202		mg/L		101	80 - 120
Cadmium	0.200	0.200		mg/L		100	80 - 120
Calcium	10.0	10.13		mg/L		101	80 - 120
Chromium	0.200	0.202		mg/L		101	80 - 120
Cobalt	0.200	0.201		mg/L		101	80 - 120
Copper	0.200	0.207		mg/L		103	80 - 120
Iron	10.0	10.35		mg/L		104	80 - 120
Lead	0.200	0.201		mg/L		101	80 - 120
Magnesium	10.0	10.39		mg/L		104	80 - 120
Manganese	0.200	0.208		mg/L		104	80 - 120
Nickel	0.200	0.197		mg/L		99	80 - 120
Potassium	10.0	10.16		mg/L		101	80 - 120
Selenium	0.200	0.192		mg/L		96	80 - 120
Silver	0.0500	0.0483		mg/L		97	80 - 120
Sodium	10.0	10.01		mg/L		100	80 - 120
Thallium	0.200	0.205		mg/L		103	80 - 120
Vanadium	0.200	0.201		mg/L		101	80 - 120
Zinc	0.200	0.202		mg/L		101	80 - 120

Lab Sample ID: MB 480-629664/1-A
Matrix: Water
Analysis Batch: 629955

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		06/13/22 08:21	06/13/22 18:39	1
Antimony	ND		0.020		mg/L		06/13/22 08:21	06/13/22 18:39	1
Arsenic	ND		0.015		mg/L		06/13/22 08:21	06/13/22 18:39	1
Barium	ND		0.0020		mg/L		06/13/22 08:21	06/13/22 18:39	1
Beryllium	ND		0.0020		mg/L		06/13/22 08:21	06/13/22 18:39	1
Boron	ND		0.020		mg/L		06/13/22 08:21	06/13/22 18:39	1
Cadmium	ND		0.0020		mg/L		06/13/22 08:21	06/13/22 18:39	1
Calcium	ND		0.50		mg/L		06/13/22 08:21	06/13/22 18:39	1
Chromium	ND		0.0040		mg/L		06/13/22 08:21	06/13/22 18:39	1
Cobalt	ND		0.0040		mg/L		06/13/22 08:21	06/13/22 18:39	1

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

Lab Sample ID: MB 480-629664/1-A
Matrix: Water
Analysis Batch: 629955

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.010		mg/L		06/13/22 08:21	06/13/22 18:39	1
Iron	ND		0.050		mg/L		06/13/22 08:21	06/13/22 18:39	1
Lead	ND		0.010		mg/L		06/13/22 08:21	06/13/22 18:39	1
Magnesium	ND		0.20		mg/L		06/13/22 08:21	06/13/22 18:39	1
Manganese	ND		0.0030		mg/L		06/13/22 08:21	06/13/22 18:39	1
Nickel	ND		0.010		mg/L		06/13/22 08:21	06/13/22 18:39	1
Potassium	ND		0.50		mg/L		06/13/22 08:21	06/13/22 18:39	1
Selenium	ND		0.025		mg/L		06/13/22 08:21	06/13/22 18:39	1
Silver	ND		0.0060		mg/L		06/13/22 08:21	06/13/22 18:39	1
Sodium	ND		1.0		mg/L		06/13/22 08:21	06/13/22 18:39	1
Thallium	ND		0.020		mg/L		06/13/22 08:21	06/13/22 18:39	1
Vanadium	ND		0.0050		mg/L		06/13/22 08:21	06/13/22 18:39	1
Zinc	ND		0.010		mg/L		06/13/22 08:21	06/13/22 18:39	1

Lab Sample ID: LCS 480-629664/2-A
Matrix: Water
Analysis Batch: 629955

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	10.0	9.30		mg/L		93	80 - 120
Antimony	0.200	0.185		mg/L		93	80 - 120
Arsenic	0.200	0.183		mg/L		91	80 - 120
Barium	0.200	0.200		mg/L		100	80 - 120
Beryllium	0.200	0.187		mg/L		94	80 - 120
Boron	0.200	0.193		mg/L		96	80 - 120
Cadmium	0.200	0.179		mg/L		89	80 - 120
Calcium	10.0	8.82		mg/L		88	80 - 120
Chromium	0.200	0.186		mg/L		93	80 - 120
Cobalt	0.200	0.177		mg/L		89	80 - 120
Copper	0.200	0.182		mg/L		91	80 - 120
Iron	10.0	9.01		mg/L		90	80 - 120
Lead	0.200	0.176		mg/L		88	80 - 120
Magnesium	10.0	9.41		mg/L		94	80 - 120
Manganese	0.200	0.184		mg/L		92	80 - 120
Nickel	0.200	0.175		mg/L		87	80 - 120
Potassium	10.0	8.85		mg/L		88	80 - 120
Selenium	0.200	0.185		mg/L		92	80 - 120
Silver	0.0500	0.0457		mg/L		91	80 - 120
Sodium	10.0	8.87		mg/L		89	80 - 120
Thallium	0.200	0.185		mg/L		92	80 - 120
Vanadium	0.200	0.178		mg/L		89	80 - 120
Zinc	0.200	0.178		mg/L		89	80 - 120

Lab Sample ID: 480-198813-3 MS
Matrix: Water
Analysis Batch: 629955

Client Sample ID: MW-2B
Prep Type: Total/NA
Prep Batch: 629664

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	0.31		10.0	9.93		mg/L		96	75 - 125

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

Lab Sample ID: 480-198813-3 MS
Matrix: Water
Analysis Batch: 629955

Client Sample ID: MW-2B
Prep Type: Total/NA
Prep Batch: 629664

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.200	0.190		mg/L		95	75 - 125
Arsenic	ND		0.200	0.191		mg/L		96	75 - 125
Barium	1.0		0.200	1.22	4	mg/L		93	75 - 125
Beryllium	ND		0.200	0.195		mg/L		97	75 - 125
Boron	0.17		0.200	0.362		mg/L		96	75 - 125
Cadmium	ND		0.200	0.186		mg/L		93	75 - 125
Calcium	166		10.0	176.5	4	mg/L		104	75 - 125
Chromium	ND		0.200	0.189		mg/L		95	75 - 125
Cobalt	ND		0.200	0.189		mg/L		93	75 - 125
Copper	ND		0.200	0.190		mg/L		93	75 - 125
Iron	0.51		10.0	9.71		mg/L		92	75 - 125
Lead	ND		0.200	0.189		mg/L		95	75 - 125
Magnesium	36.1		10.0	45.82		mg/L		98	75 - 125
Manganese	4.6		0.200	4.86	4	mg/L		112	75 - 125
Nickel	ND		0.200	0.188		mg/L		91	75 - 125
Potassium	1.9		10.0	11.41		mg/L		95	75 - 125
Selenium	ND		0.200	0.189		mg/L		95	75 - 125
Silver	ND		0.0500	0.0465		mg/L		93	75 - 125
Sodium	37.0		10.0	46.53		mg/L		95	75 - 125
Thallium	ND		0.200	0.189		mg/L		94	75 - 125
Vanadium	ND		0.200	0.185		mg/L		92	75 - 125
Zinc	0.012		0.200	0.194		mg/L		91	75 - 125

Lab Sample ID: 480-198813-3 MSD
Matrix: Water
Analysis Batch: 629955

Client Sample ID: MW-2B
Prep Type: Total/NA
Prep Batch: 629664

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	0.31		10.0	10.05		mg/L		97	75 - 125	1	20
Antimony	ND		0.200	0.199		mg/L		99	75 - 125	5	20
Arsenic	ND		0.200	0.200		mg/L		100	75 - 125	4	20
Barium	1.0		0.200	1.26	4	mg/L		112	75 - 125	3	20
Beryllium	ND		0.200	0.199		mg/L		99	75 - 125	2	20
Boron	0.17		0.200	0.374		mg/L		103	75 - 125	3	20
Cadmium	ND		0.200	0.192		mg/L		96	75 - 125	3	20
Calcium	166		10.0	176.5	4	mg/L		104	75 - 125	0	20
Chromium	ND		0.200	0.194		mg/L		97	75 - 125	2	20
Cobalt	ND		0.200	0.195		mg/L		96	75 - 125	3	20
Copper	ND		0.200	0.196		mg/L		96	75 - 125	3	20
Iron	0.51		10.0	9.91		mg/L		94	75 - 125	2	20
Lead	ND		0.200	0.194		mg/L		97	75 - 125	3	20
Magnesium	36.1		10.0	47.30		mg/L		112	75 - 125	3	20
Manganese	4.6		0.200	4.98	4	mg/L		169	75 - 125	2	20
Nickel	ND		0.200	0.192		mg/L		94	75 - 125	3	20
Potassium	1.9		10.0	11.66		mg/L		97	75 - 125	2	20
Selenium	ND		0.200	0.196		mg/L		98	75 - 125	3	20
Silver	ND		0.0500	0.0472		mg/L		94	75 - 125	1	20
Sodium	37.0		10.0	47.94		mg/L		109	75 - 125	3	20
Thallium	ND		0.200	0.195		mg/L		97	75 - 125	3	20

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

Lab Sample ID: 480-198813-3 MSD
Matrix: Water
Analysis Batch: 629955

Client Sample ID: MW-2B
Prep Type: Total/NA
Prep Batch: 629664

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vanadium	ND		0.200	0.189		mg/L		95	75 - 125	2	20
Zinc	0.012		0.200	0.198		mg/L		93	75 - 125	2	20

Lab Sample ID: MB 480-629787/1-B
Matrix: Water
Analysis Batch: 630310

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 629816

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		06/14/22 09:55	06/15/22 12:52	1
Antimony	ND		0.020		mg/L		06/14/22 09:55	06/15/22 12:52	1
Arsenic	ND		0.015		mg/L		06/14/22 09:55	06/15/22 12:52	1
Barium	ND		0.0020		mg/L		06/14/22 09:55	06/15/22 12:52	1
Beryllium	ND		0.0020		mg/L		06/14/22 09:55	06/15/22 12:52	1
Boron	ND		0.020		mg/L		06/14/22 09:55	06/15/22 12:52	1
Cadmium	ND		0.0020		mg/L		06/14/22 09:55	06/15/22 12:52	1
Calcium	ND		0.50		mg/L		06/14/22 09:55	06/15/22 12:52	1
Chromium	ND		0.0040		mg/L		06/14/22 09:55	06/15/22 12:52	1
Cobalt	ND		0.0040		mg/L		06/14/22 09:55	06/15/22 12:52	1
Copper	ND		0.010		mg/L		06/14/22 09:55	06/15/22 12:52	1
Iron	ND		0.050		mg/L		06/14/22 09:55	06/15/22 12:52	1
Lead	ND		0.010		mg/L		06/14/22 09:55	06/15/22 12:52	1
Magnesium	ND		0.20		mg/L		06/14/22 09:55	06/15/22 12:52	1
Manganese	ND		0.0030		mg/L		06/14/22 09:55	06/15/22 12:52	1
Nickel	ND		0.010		mg/L		06/14/22 09:55	06/15/22 12:52	1
Potassium	ND		0.50		mg/L		06/14/22 09:55	06/15/22 12:52	1
Selenium	ND		0.025		mg/L		06/14/22 09:55	06/15/22 12:52	1
Silver	ND		0.0060		mg/L		06/14/22 09:55	06/15/22 12:52	1
Sodium	ND		1.0		mg/L		06/14/22 09:55	06/15/22 12:52	1
Thallium	ND		0.020		mg/L		06/14/22 09:55	06/15/22 12:52	1
Vanadium	ND		0.0050		mg/L		06/14/22 09:55	06/15/22 12:52	1
Zinc	ND		0.010		mg/L		06/14/22 09:55	06/15/22 12:52	1

Lab Sample ID: LCS 480-629787/2-B
Matrix: Water
Analysis Batch: 630310

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 629816

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	10.0	10.23		mg/L		102	80 - 120
Antimony	0.200	0.203		mg/L		102	80 - 120
Arsenic	0.200	0.197		mg/L		98	80 - 120
Barium	0.200	0.215		mg/L		107	80 - 120
Beryllium	0.200	0.205		mg/L		102	80 - 120
Boron	0.200	0.203		mg/L		101	80 - 120
Cadmium	0.200	0.195		mg/L		97	80 - 120
Calcium	10.0	9.82		mg/L		98	80 - 120
Chromium	0.200	0.201		mg/L		101	80 - 120
Cobalt	0.200	0.193		mg/L		96	80 - 120
Copper	0.200	0.201		mg/L		100	80 - 120
Iron	10.0	10.09		mg/L		101	80 - 120

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

Lab Sample ID: LCS 480-629787/2-B
Matrix: Water
Analysis Batch: 630310

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 629816

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.200	0.192		mg/L		96	80 - 120
Magnesium	10.0	10.21		mg/L		102	80 - 120
Manganese	0.200	0.201		mg/L		100	80 - 120
Nickel	0.200	0.189		mg/L		94	80 - 120
Potassium	10.0	9.49		mg/L		95	80 - 120
Selenium	0.200	0.193		mg/L		97	80 - 120
Silver	0.0500	0.0478		mg/L		96	80 - 120
Sodium	10.0	9.58		mg/L		96	80 - 120
Thallium	0.200	0.195		mg/L		98	80 - 120
Vanadium	0.200	0.198		mg/L		99	80 - 120
Zinc	0.200	0.200		mg/L		100	80 - 120

Lab Sample ID: 480-198720-2 MS
Matrix: Water
Analysis Batch: 630310

Client Sample ID: CD-1RA
Prep Type: Dissolved
Prep Batch: 629816

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	ND		10.0	9.54		mg/L		95	75 - 125
Antimony	ND		0.200	0.216		mg/L		108	75 - 125
Arsenic	ND		0.200	0.213		mg/L		106	75 - 125
Barium	0.15	^2	0.200	0.355		mg/L		102	75 - 125
Beryllium	ND		0.200	0.212		mg/L		106	75 - 125
Boron	ND		0.200	0.203		mg/L		97	75 - 125
Cadmium	ND		0.200	0.205		mg/L		103	75 - 125
Calcium	41.5		10.0	51.50	4	mg/L		100	75 - 125
Chromium	ND		0.200	0.208		mg/L		104	75 - 125
Cobalt	ND		0.200	0.202		mg/L		101	75 - 125
Copper	ND		0.200	0.210		mg/L		105	75 - 125
Iron	ND		10.0	10.37		mg/L		104	75 - 125
Lead	ND		0.200	0.204		mg/L		102	75 - 125
Magnesium	9.9		10.0	20.50		mg/L		106	75 - 125
Manganese	0.14		0.200	0.340		mg/L		102	75 - 125
Nickel	ND		0.200	0.197		mg/L		99	75 - 125
Potassium	0.70		10.0	9.51		mg/L		88	75 - 125
Selenium	ND		0.200	0.206		mg/L		103	75 - 125
Silver	ND		0.0500	0.0494		mg/L		99	75 - 125
Sodium	4.6		10.0	13.53		mg/L		89	75 - 125
Thallium	ND		0.200	0.205		mg/L		102	75 - 125
Vanadium	ND		0.200	0.207		mg/L		103	75 - 125
Zinc	ND		0.200	0.210		mg/L		103	75 - 125

Lab Sample ID: 480-198720-2 MSD
Matrix: Water
Analysis Batch: 630310

Client Sample ID: CD-1RA
Prep Type: Dissolved
Prep Batch: 629816

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	ND		10.0	10.39		mg/L		104	75 - 125	9	20
Antimony	ND		0.200	0.210		mg/L		105	75 - 125	3	20
Arsenic	ND		0.200	0.205		mg/L		103	75 - 125	4	20

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

Lab Sample ID: 480-198720-2 MSD
Matrix: Water
Analysis Batch: 630310

Client Sample ID: CD-1RA
Prep Type: Dissolved
Prep Batch: 629816

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	0.15	^2	0.200	0.372		mg/L		110	75 - 125	5	20
Beryllium	ND		0.200	0.205		mg/L		103	75 - 125	3	20
Boron	ND		0.200	0.222		mg/L		106	75 - 125	9	20
Cadmium	ND		0.200	0.200		mg/L		100	75 - 125	3	20
Calcium	41.5		10.0	51.68	4	mg/L		102	75 - 125	0	20
Chromium	ND		0.200	0.200		mg/L		100	75 - 125	4	20
Cobalt	ND		0.200	0.196		mg/L		98	75 - 125	3	20
Copper	ND		0.200	0.203		mg/L		102	75 - 125	3	20
Iron	ND		10.0	10.03		mg/L		100	75 - 125	3	20
Lead	ND		0.200	0.197		mg/L		98	75 - 125	4	20
Magnesium	9.9		10.0	20.03		mg/L		102	75 - 125	2	20
Manganese	0.14		0.200	0.340		mg/L		102	75 - 125	0	20
Nickel	ND		0.200	0.191		mg/L		96	75 - 125	3	20
Potassium	0.70		10.0	10.46		mg/L		97	75 - 125	10	20
Selenium	ND		0.200	0.202		mg/L		101	75 - 125	2	20
Silver	ND		0.0500	0.0497		mg/L		99	75 - 125	1	20
Sodium	4.6		10.0	14.53		mg/L		99	75 - 125	7	20
Thallium	ND		0.200	0.198		mg/L		99	75 - 125	4	20
Vanadium	ND		0.200	0.199		mg/L		100	75 - 125	4	20
Zinc	ND		0.200	0.221		mg/L		108	75 - 125	5	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-629607/1-A
Matrix: Water
Analysis Batch: 629668

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629607

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/10/22 12:25	06/10/22 16:21	1

Lab Sample ID: LCS 480-629607/2-A
Matrix: Water
Analysis Batch: 629668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629607

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00667	0.00687		mg/L		103	80 - 120		

Lab Sample ID: MB 480-629751/1-A
Matrix: Water
Analysis Batch: 629882

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629751

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/13/22 10:37	06/13/22 14:26	1

Lab Sample ID: LCS 480-629751/2-A
Matrix: Water
Analysis Batch: 629882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629751

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00667	0.00687		mg/L		103	80 - 120		

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 480-198813-1 MS
Matrix: Water
Analysis Batch: 629882

Client Sample ID: MW-1A
Prep Type: Total/NA
Prep Batch: 629751

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00667	0.00692		mg/L		104	80 - 120

Lab Sample ID: 480-198813-1 MSD
Matrix: Water
Analysis Batch: 629882

Client Sample ID: MW-1A
Prep Type: Total/NA
Prep Batch: 629751

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00695		mg/L		104	80 - 120	0	20

Lab Sample ID: MB 480-629787/1-C
Matrix: Water
Analysis Batch: 630021

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 629926

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		06/14/22 10:39	06/14/22 13:51	1

Lab Sample ID: LCS 480-629787/2-C
Matrix: Water
Analysis Batch: 630021

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 629926

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00667	0.00708		mg/L		106	80 - 120

Lab Sample ID: 480-198720-4 MS
Matrix: Water
Analysis Batch: 630021

Client Sample ID: DUP CD-1RA
Prep Type: Dissolved
Prep Batch: 629926

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00667	0.00682		mg/L		102	80 - 120

Lab Sample ID: 480-198720-4 MSD
Matrix: Water
Analysis Batch: 630021

Client Sample ID: DUP CD-1RA
Prep Type: Dissolved
Prep Batch: 629926

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00698		mg/L		105	80 - 120	2	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-629883/4
Matrix: Water
Analysis Batch: 629883

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			06/14/22 14:21	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 480-629883/5
Matrix: Water
Analysis Batch: 629883

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	5.01	4.66		mg/L		93	90 - 110

Lab Sample ID: MB 480-630215/4
Matrix: Water
Analysis Batch: 630215

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			06/15/22 17:56	1

Lab Sample ID: LCS 480-630215/5
Matrix: Water
Analysis Batch: 630215

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	5.01	4.75		mg/L		95	90 - 110

Lab Sample ID: 480-198813-6 MS
Matrix: Water
Analysis Batch: 630215

Client Sample ID: MW-4A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	ND		10.0	9.77		mg/L		94	80 - 120

Lab Sample ID: MB 480-630550/4
Matrix: Water
Analysis Batch: 630550

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			06/17/22 18:16	1

Lab Sample ID: LCS 480-630550/5
Matrix: Water
Analysis Batch: 630550

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	5.01	5.07		mg/L		101	90 - 110

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-629307/17
Matrix: Water
Analysis Batch: 629307

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			06/08/22 14:01	1

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: MB 480-629307/21
Matrix: Water
Analysis Batch: 629307

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			06/08/22 16:26	1

Lab Sample ID: MB 480-629307/56
Matrix: Water
Analysis Batch: 629307

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			06/08/22 16:36	1

Lab Sample ID: MB 480-629307/62
Matrix: Water
Analysis Batch: 629307

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			06/08/22 16:37	1

Lab Sample ID: MB 480-629307/66
Matrix: Water
Analysis Batch: 629307

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			06/08/22 16:39	1

Lab Sample ID: MB 480-629307/80
Matrix: Water
Analysis Batch: 629307

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			06/08/22 16:50	1

Lab Sample ID: MB 480-629307/85
Matrix: Water
Analysis Batch: 629307

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			06/08/22 16:54	1

Lab Sample ID: LCS 480-629307/20
Matrix: Water
Analysis Batch: 629307

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	50.0	51.98		mg/L		104	90 - 110

Lab Sample ID: LCS 480-629307/59
Matrix: Water
Analysis Batch: 629307

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	50.0	49.60		mg/L		99	90 - 110

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-629307/65
Matrix: Water
Analysis Batch: 629307

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	50.0	47.99		mg/L		96	90 - 110

Lab Sample ID: LCS 480-629307/84
Matrix: Water
Analysis Batch: 629307

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	50.0	48.41		mg/L		97	90 - 110

Lab Sample ID: MB 480-630965/21
Matrix: Water
Analysis Batch: 630965

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			06/21/22 12:33	1

Lab Sample ID: MB 480-630965/215
Matrix: Water
Analysis Batch: 630965

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			06/21/22 15:24	1

Lab Sample ID: MB 480-630965/221
Matrix: Water
Analysis Batch: 630965

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			06/21/22 15:25	1

Lab Sample ID: MB 480-630965/30
Matrix: Water
Analysis Batch: 630965

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			06/21/22 12:36	1

Lab Sample ID: MB 480-630965/40
Matrix: Water
Analysis Batch: 630965

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			06/21/22 12:38	1

Lab Sample ID: MB 480-630965/64
Matrix: Water
Analysis Batch: 630965

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			06/21/22 12:50	1

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-630965/76
Matrix: Water
Analysis Batch: 630965

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			06/21/22 13:17	1

Lab Sample ID: MB 480-630965/88
Matrix: Water
Analysis Batch: 630965

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			06/21/22 13:20	1

Lab Sample ID: LCS 480-630965/220
Matrix: Water
Analysis Batch: 630965

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	50.0	46.79		mg/L		94	90 - 110

Lab Sample ID: LCS 480-630965/29
Matrix: Water
Analysis Batch: 630965

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	50.0	51.63		mg/L		103	90 - 110

Lab Sample ID: LCS 480-630965/39
Matrix: Water
Analysis Batch: 630965

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	50.0	47.81		mg/L		96	90 - 110

Lab Sample ID: LCS 480-630965/75
Matrix: Water
Analysis Batch: 630965

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	50.0	53.18		mg/L		106	90 - 110

Lab Sample ID: LCS 480-630965/87
Matrix: Water
Analysis Batch: 630965

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	50.0	50.49		mg/L		101	90 - 110

Lab Sample ID: 480-198720-1 MS
Matrix: Water
Analysis Batch: 630965

Client Sample ID: CD-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	120	H	20.0	100.5	4	mg/L		-98	60 - 140

Method: 310.2 - Alkalinity

Lab Sample ID: 480-198720-1 MSD
Matrix: Water
Analysis Batch: 630965

Client Sample ID: CD-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity, Total	120	H	20.0	98.49	4	mg/L		-108	60 - 140	2	20

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-629693/1-A
Matrix: Water
Analysis Batch: 629819

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629693

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		06/11/22 14:15	06/13/22 10:45	1

Lab Sample ID: LCS 480-629693/2-A
Matrix: Water
Analysis Batch: 629819

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629693

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.396		mg/L		99	90 - 110

Lab Sample ID: LCS 480-629693/3-A
Matrix: Water
Analysis Batch: 629819

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629693

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.243		mg/L		97	90 - 110

Lab Sample ID: 480-198720-3 MS
Matrix: Water
Analysis Batch: 629819

Client Sample ID: MW-1B
Prep Type: Total/NA
Prep Batch: 629693

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.011	F1	0.00500	0.0122	F1	mg/L		20	90 - 110

Lab Sample ID: MB 480-630206/1-A
Matrix: Water
Analysis Batch: 630238

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630206

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		06/15/22 15:30	06/15/22 18:09	1

Lab Sample ID: LCS 480-630206/2-A
Matrix: Water
Analysis Batch: 630238

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630206

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.392		mg/L		98	90 - 110

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: LCS 480-630206/3-A
Matrix: Water
Analysis Batch: 630238

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630206

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.242		mg/L		97	90 - 110		

Lab Sample ID: MB 480-630398/1-A
Matrix: Water
Analysis Batch: 630471

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630398

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		06/16/22 21:15	06/17/22 08:49	1

Lab Sample ID: LCS 480-630398/2-A
Matrix: Water
Analysis Batch: 630471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630398

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.246		mg/L		98	90 - 110		

Lab Sample ID: MB 480-630516/1-A
Matrix: Water
Analysis Batch: 630539

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0100		0.010		mg/L		06/17/22 10:30	06/17/22 13:01	1

Lab Sample ID: LCS 480-630516/2-A
Matrix: Water
Analysis Batch: 630539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630516

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.400	0.375		mg/L		94	90 - 110		

Lab Sample ID: LCS 480-630516/3-A
Matrix: Water
Analysis Batch: 630539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630516

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.240		mg/L		96	90 - 110		

Lab Sample ID: 480-198813-10 MS
Matrix: Water
Analysis Batch: 630539

Client Sample ID: MW-7A
Prep Type: Total/NA
Prep Batch: 630516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	ND		0.00500	0.0126		mg/L		106	90 - 110		

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-629188/3
Matrix: Water
Analysis Batch: 629188

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020		mg/L			06/08/22 08:49	1

Lab Sample ID: LCS 480-629188/4
Matrix: Water
Analysis Batch: 629188

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia			1.00	1.03		mg/L		103	90 - 110		

Lab Sample ID: 480-198720-4 MS
Matrix: Water
Analysis Batch: 629188

Client Sample ID: DUP CD-1RA
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia	ND		0.200	0.193		mg/L		97	90 - 110		

Lab Sample ID: 480-198720-4 DU
Matrix: Water
Analysis Batch: 629188

Client Sample ID: DUP CD-1RA
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia	ND			ND		mg/L				NC	20

Lab Sample ID: MB 480-629604/3
Matrix: Water
Analysis Batch: 629604

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020		mg/L			06/10/22 08:52	1

Lab Sample ID: MB 480-629604/51
Matrix: Water
Analysis Batch: 629604

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020		mg/L			06/10/22 09:45	1

Lab Sample ID: LCS 480-629604/4
Matrix: Water
Analysis Batch: 629604

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia			1.00	0.994		mg/L		99	90 - 110		

Lab Sample ID: LCS 480-629604/52
Matrix: Water
Analysis Batch: 629604

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia			1.00	1.00		mg/L		100	90 - 110		

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: 480-198813-1 MS
Matrix: Water
Analysis Batch: 629604

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	0.021		0.200	0.215		mg/L		97	90 - 110

Lab Sample ID: 480-198813-5 MS
Matrix: Water
Analysis Batch: 629604

Client Sample ID: MW-3B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	ND		0.200	0.216		mg/L		108	90 - 110

Lab Sample ID: 480-198813-5 DU
Matrix: Water
Analysis Batch: 629604

Client Sample ID: MW-3B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	ND		ND		mg/L		NC	20

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-629708/1-A
Matrix: Water
Analysis Batch: 629788

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629708

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20		mg/L		06/12/22 12:55	06/13/22 07:09	1

Lab Sample ID: LCS 480-629708/2-A
Matrix: Water
Analysis Batch: 629788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629708

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	2.50	5.27	*+	mg/L		211	90 - 110

Lab Sample ID: MB 480-629826/1-A
Matrix: Water
Analysis Batch: 629963

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629826

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20		mg/L		06/13/22 12:10	06/14/22 08:33	1

Lab Sample ID: LCS 480-629826/2-A
Matrix: Water
Analysis Batch: 629963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629826

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	2.50	2.68		mg/L		107	90 - 110

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: 480-198813-2 MS — **Client Sample ID: MW-2A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 629963 — **Prep Batch: 629826**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	9.4		1.00	11.10	4	mg/L		170	90 - 110

Lab Sample ID: 480-198813-1 DU — **Client Sample ID: MW-1A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 629963 — **Prep Batch: 629826**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Kjeldahl Nitrogen	ND		ND		mg/L		NC	20

Lab Sample ID: MB 480-630167/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 630270 — **Prep Batch: 630167**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20		mg/L		06/15/22 12:38	06/16/22 07:51	1

Lab Sample ID: LCS 480-630167/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 630270 — **Prep Batch: 630167**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	2.50	2.49		mg/L		100	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-630049/27 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 630049

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0		mg/L			06/14/22 18:00	1

Lab Sample ID: MB 480-630049/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 630049

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0		mg/L			06/14/22 18:00	1

Lab Sample ID: LCS 480-630049/28 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 630049

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	25.0	24.02		mg/L		96	90 - 110

Method: 410.4 - COD (Continued)

Lab Sample ID: LCS 480-630049/4
Matrix: Water
Analysis Batch: 630049

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand			25.0	25.04		mg/L		100	90 - 110		

Lab Sample ID: 480-198720-4 MS
Matrix: Water
Analysis Batch: 630049

Client Sample ID: DUP CD-1RA
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand	ND		50.0	58.03		mg/L		116	75 - 125		

Lab Sample ID: 480-198720-4 MSD
Matrix: Water
Analysis Batch: 630049

Client Sample ID: DUP CD-1RA
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand	ND		50.0	55.31		mg/L		111	75 - 125	5	20

Lab Sample ID: 480-198813-6 MS
Matrix: Water
Analysis Batch: 630049

Client Sample ID: MW-4A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand	ND		50.0	58.03		mg/L		116	75 - 125		

Lab Sample ID: 480-198813-6 MSD
Matrix: Water
Analysis Batch: 630049

Client Sample ID: MW-4A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand	ND		50.0	57.01		mg/L		114	75 - 125	2	20

Lab Sample ID: 480-198813-9 MS
Matrix: Water
Analysis Batch: 630049

Client Sample ID: MW-6B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand	ND		50.0	55.65		mg/L		111	75 - 125		

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 480-629847/16
Matrix: Water
Analysis Batch: 629847

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010		mg/L			06/13/22 08:29	1

Method: 420.4 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: MB 480-629847/45
Matrix: Water
Analysis Batch: 629847

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010		mg/L			06/13/22 10:17	1

Lab Sample ID: MB 480-629847/73
Matrix: Water
Analysis Batch: 629847

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010		mg/L			06/13/22 11:59	1

Lab Sample ID: LCS 480-629847/17
Matrix: Water
Analysis Batch: 629847

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenolics, Total Recoverable	0.100	0.0973		mg/L		97	90 - 110

Lab Sample ID: LCS 480-629847/46
Matrix: Water
Analysis Batch: 629847

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenolics, Total Recoverable	0.100	0.0957		mg/L		96	90 - 110

Lab Sample ID: LCS 480-629847/74
Matrix: Water
Analysis Batch: 629847

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenolics, Total Recoverable	0.100	0.0955		mg/L		96	90 - 110

Lab Sample ID: 480-198720-1 MS
Matrix: Water
Analysis Batch: 629847

Client Sample ID: CD-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenolics, Total Recoverable	ND	F1	0.100	0.0658	F1	mg/L		66	90 - 110

Lab Sample ID: 480-198813-5 MS
Matrix: Water
Analysis Batch: 629847

Client Sample ID: MW-3B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenolics, Total Recoverable	ND		0.100	0.0965		mg/L		97	90 - 110

Lab Sample ID: 480-198720-1 DU
Matrix: Water
Analysis Batch: 629847

Client Sample ID: CD-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Phenolics, Total Recoverable	ND	F1	ND		mg/L		NC	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 480-629118/27
Matrix: Water
Analysis Batch: 629118

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010		mg/L			06/07/22 11:00	1

Lab Sample ID: MB 480-629118/3
Matrix: Water
Analysis Batch: 629118

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010		mg/L			06/07/22 11:00	1

Lab Sample ID: LCS 480-629118/28
Matrix: Water
Analysis Batch: 629118

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium, hexavalent			0.0500	0.0499		mg/L		100	85 - 115		

Lab Sample ID: LCS 480-629118/4
Matrix: Water
Analysis Batch: 629118

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium, hexavalent			0.0500	0.0534		mg/L		107	85 - 115		

Lab Sample ID: 480-198720-4 MS
Matrix: Water
Analysis Batch: 629118

Client Sample ID: DUP CD-1RA
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium, hexavalent	ND		0.0500	0.0463		mg/L		93	85 - 115		

Lab Sample ID: 480-198720-3 DU
Matrix: Water
Analysis Batch: 629118

Client Sample ID: MW-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chromium, hexavalent	ND			ND		mg/L				NC	20

Lab Sample ID: MB 480-629426/3
Matrix: Water
Analysis Batch: 629426

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010		mg/L			06/09/22 10:15	1

Lab Sample ID: LCS 480-629426/4
Matrix: Water
Analysis Batch: 629426

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium, hexavalent			0.0500	0.0463		mg/L		93	85 - 115		

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: 480-198813-5 MS
Matrix: Water
Analysis Batch: 629426

Client Sample ID: MW-3B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium, hexavalent	ND	H H3	0.0500	0.0428		mg/L		86	85 - 115		

Lab Sample ID: 480-198813-9 MS
Matrix: Water
Analysis Batch: 629426

Client Sample ID: MW-6B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium, hexavalent	ND		0.0500	0.0452		mg/L		90	85 - 115		

Lab Sample ID: 480-198813-4 DU
Matrix: Water
Analysis Batch: 629426

Client Sample ID: MW-3A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chromium, hexavalent	ND	H H3		ND		mg/L				NC	20

Lab Sample ID: 480-198813-7 DU
Matrix: Water
Analysis Batch: 629426

Client Sample ID: MW-5A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chromium, hexavalent	ND	H		ND		mg/L				NC	20

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-629495/117
Matrix: Water
Analysis Batch: 629495

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			06/09/22 13:43	1

Lab Sample ID: MB 480-629495/128
Matrix: Water
Analysis Batch: 629495

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			06/09/22 13:50	1

Lab Sample ID: MB 480-629495/156
Matrix: Water
Analysis Batch: 629495

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			06/09/22 14:54	1

Method: 9038 - Sulfate, Turbidimetric (Continued)

Lab Sample ID: MB 480-629495/167
Matrix: Water
Analysis Batch: 629495

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			06/09/22 14:57	1

Lab Sample ID: MB 480-629495/179
Matrix: Water
Analysis Batch: 629495

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			06/09/22 14:59	1

Lab Sample ID: MB 480-629495/53
Matrix: Water
Analysis Batch: 629495

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			06/09/22 12:33	1

Lab Sample ID: LCS 480-629495/118
Matrix: Water
Analysis Batch: 629495

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	30.0	29.37		mg/L		98	90 - 110

Lab Sample ID: LCS 480-629495/129
Matrix: Water
Analysis Batch: 629495

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	30.0	29.36		mg/L		98	90 - 110

Lab Sample ID: LCS 480-629495/163
Matrix: Water
Analysis Batch: 629495

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	30.0	29.41		mg/L		98	90 - 110

Lab Sample ID: LCS 480-629495/174
Matrix: Water
Analysis Batch: 629495

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	30.0	29.52		mg/L		98	90 - 110

Lab Sample ID: LCS 480-629495/54
Matrix: Water
Analysis Batch: 629495

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	30.0	29.91		mg/L		100	90 - 110

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: 480-198813-8 MS
Matrix: Water
Analysis Batch: 629495

Client Sample ID: MW-6A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	ND	F1	20.0	27.22	F1	mg/L		136	60 - 128

Lab Sample ID: 480-198813-8 MSD
Matrix: Water
Analysis Batch: 629495

Client Sample ID: MW-6A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	ND	F1	20.0	25.36		mg/L		127	60 - 128	7	20

Method: SM 2120B - Color, Colorimetric

Lab Sample ID: MB 480-629139/3
Matrix: Water
Analysis Batch: 629139

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	ND		5.00		Color Units			06/07/22 15:30	1

Lab Sample ID: LCS 480-629139/4
Matrix: Water
Analysis Batch: 629139

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Color	30.0	30.00		Color Units		100	90 - 110

Lab Sample ID: MB 480-629501/3
Matrix: Water
Analysis Batch: 629501

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	ND	^-	5.00		Color Units			06/09/22 15:30	1

Lab Sample ID: LCS 480-629501/4
Matrix: Water
Analysis Batch: 629501

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Color	30.0	30.00	^-	Color Units		100	90 - 110

Lab Sample ID: 480-198813-1 DU
Matrix: Water
Analysis Batch: 629501

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Color	10.0	^-	10.00	^-	Color Units		0	20

Method: SM 2120B - Color, Colorimetric (Continued)

Lab Sample ID: 480-198813-8 DU
Matrix: Water
Analysis Batch: 629501

Client Sample ID: MW-6A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Color	10.0	^-		10.00	^-	Color Units				0	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-629374/1
Matrix: Water
Analysis Batch: 629374

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0		mg/L			06/09/22 09:41	1

Lab Sample ID: LCS 480-629374/2
Matrix: Water
Analysis Batch: 629374

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			538	472.0		mg/L		88	85 - 115		

Lab Sample ID: 480-198720-3 DU
Matrix: Water
Analysis Batch: 629374

Client Sample ID: MW-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	147			145.0		mg/L				1	10

Lab Sample ID: MB 480-629377/1
Matrix: Water
Analysis Batch: 629377

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0		mg/L			06/09/22 09:45	1

Lab Sample ID: LCS 480-629377/2
Matrix: Water
Analysis Batch: 629377

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			538	459.0		mg/L		85	85 - 115		

Lab Sample ID: 480-198720-2 DU
Matrix: Water
Analysis Batch: 629377

Client Sample ID: CD-1RA
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	166			176.0		mg/L				6	10

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MB 480-629552/1
Matrix: Water
Analysis Batch: 629552

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0		mg/L			06/10/22 09:23	1

Lab Sample ID: LCS 480-629552/2
Matrix: Water
Analysis Batch: 629552

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			538	463.0		mg/L		86	85 - 115		

Lab Sample ID: 480-198813-7 DU
Matrix: Water
Analysis Batch: 629552

Client Sample ID: MW-5A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	162			162.0		mg/L				0	10

Lab Sample ID: MB 480-629750/1
Matrix: Water
Analysis Batch: 629750

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0		mg/L			06/13/22 09:26	1

Lab Sample ID: LCS 480-629750/2
Matrix: Water
Analysis Batch: 629750

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			538	500.0		mg/L		93	85 - 115		

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 480-629332/243
Matrix: Water
Analysis Batch: 629332

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			06/08/22 22:49	1

Lab Sample ID: MB 480-629332/252
Matrix: Water
Analysis Batch: 629332

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			06/08/22 22:53	1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: MB 480-629332/262
Matrix: Water
Analysis Batch: 629332

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			06/08/22 22:57	1

Lab Sample ID: MB 480-629332/276
Matrix: Water
Analysis Batch: 629332

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			06/08/22 23:07	1

Lab Sample ID: MB 480-629332/287
Matrix: Water
Analysis Batch: 629332

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			06/08/22 23:12	1

Lab Sample ID: MB 480-629332/301
Matrix: Water
Analysis Batch: 629332

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			06/08/22 23:16	1

Lab Sample ID: MB 480-629332/313
Matrix: Water
Analysis Batch: 629332

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			06/08/22 23:19	1

Lab Sample ID: LCS 480-629332/251
Matrix: Water
Analysis Batch: 629332

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			25.0	25.25		mg/L		101	90 - 110		

Lab Sample ID: LCS 480-629332/275
Matrix: Water
Analysis Batch: 629332

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			25.0	24.95		mg/L		100	90 - 110		

Lab Sample ID: LCS 480-629332/300
Matrix: Water
Analysis Batch: 629332

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			25.0	25.04		mg/L		100	90 - 110		

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: LCS 480-629332/312
Matrix: Water
Analysis Batch: 629332

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	25.16		mg/L		101	90 - 110

Lab Sample ID: MB 480-631684/105
Matrix: Water
Analysis Batch: 631684

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			06/26/22 14:10	1

Lab Sample ID: MB 480-631684/125
Matrix: Water
Analysis Batch: 631684

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			06/26/22 14:21	1

Lab Sample ID: MB 480-631684/129
Matrix: Water
Analysis Batch: 631684

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			06/26/22 14:49	1

Lab Sample ID: MB 480-631684/13
Matrix: Water
Analysis Batch: 631684

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			06/26/22 10:53	1

Lab Sample ID: MB 480-631684/141
Matrix: Water
Analysis Batch: 631684

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			06/26/22 14:50	1

Lab Sample ID: MB 480-631684/17
Matrix: Water
Analysis Batch: 631684

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			06/26/22 12:13	1

Lab Sample ID: MB 480-631684/93
Matrix: Water
Analysis Batch: 631684

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			06/26/22 13:45	1

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 480-631684/97
Matrix: Water
Analysis Batch: 631684

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			06/26/22 14:04	1

Lab Sample ID: LCS 480-631684/103
Matrix: Water
Analysis Batch: 631684

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	26.67		mg/L		107	90 - 110

Lab Sample ID: LCS 480-631684/127
Matrix: Water
Analysis Batch: 631684

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	27.10		mg/L		108	90 - 110

Lab Sample ID: LCS 480-631684/139
Matrix: Water
Analysis Batch: 631684

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	27.02		mg/L		108	90 - 110

Lab Sample ID: LCS 480-631684/15
Matrix: Water
Analysis Batch: 631684

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	27.03		mg/L		108	90 - 110

Lab Sample ID: LCS 480-631684/95
Matrix: Water
Analysis Batch: 631684

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	26.90		mg/L		108	90 - 110

Lab Sample ID: 480-198813-3 MS
Matrix: Water
Analysis Batch: 631684

Client Sample ID: MW-2B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	75.3	F1	20.0	87.30	F1	mg/L		60	74 - 131

Lab Sample ID: 480-198813-3 MSD
Matrix: Water
Analysis Batch: 631684

Client Sample ID: MW-2B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	75.3	F1	20.0	87.31	F1	mg/L		60	74 - 131	0	20

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: 480-198813-4 MS
Matrix: Water
Analysis Batch: 631684

Client Sample ID: MW-3A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.9		20.0	24.99		mg/L		106	74 - 131

Lab Sample ID: 480-198813-4 MSD
Matrix: Water
Analysis Batch: 631684

Client Sample ID: MW-3A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3.9		20.0	24.98		mg/L		106	74 - 131	0	20

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 480-629154/1
Matrix: Water
Analysis Batch: 629154

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			06/07/22 18:52	1

Lab Sample ID: LCS 480-629154/2
Matrix: Water
Analysis Batch: 629154

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biochemical Oxygen Demand	198	246.1	*+	mg/L		124	85 - 115

Lab Sample ID: USB 480-629517/1
Matrix: Water
Analysis Batch: 629517

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			06/09/22 15:30	1

Lab Sample ID: LCS 480-629517/2
Matrix: Water
Analysis Batch: 629517

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biochemical Oxygen Demand	198	196.3		mg/L		99	85 - 115

Lab Sample ID: 480-198813-6 DU
Matrix: Water
Analysis Batch: 629517

Client Sample ID: MW-4A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Biochemical Oxygen Demand	ND		ND		mg/L		NC	20

Method: SM 5310C - TOC

Lab Sample ID: MB 480-629996/28
Matrix: Water
Analysis Batch: 629996

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		1.0		mg/L			06/14/22 00:54	1
TOC Result 1	ND		1.0		mg/L			06/14/22 00:54	1
TOC Result 2	ND		1.0		mg/L			06/14/22 00:54	1

Lab Sample ID: MB 480-629854/1-A
Matrix: Water
Analysis Batch: 630302

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		1.0		mg/L			06/15/22 18:40	1
TOC Result 1	ND		1.0		mg/L			06/15/22 18:40	1
TOC Result 2	ND		1.0		mg/L			06/15/22 18:40	1

Lab Sample ID: MB 480-630302/4
Matrix: Water
Analysis Batch: 630302

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		1.0		mg/L			06/15/22 11:45	1
TOC Result 1	ND		1.0		mg/L			06/15/22 11:45	1
TOC Result 2	ND		1.0		mg/L			06/15/22 11:45	1

Lab Sample ID: LCS 480-629854/2-A
Matrix: Water
Analysis Batch: 630302

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Duplicates	60.0	65.07		mg/L		108	90 - 110
TOC Result 1	60.0	64.66		mg/L		108	90 - 110
TOC Result 2	60.0	65.48		mg/L		109	90 - 110

Lab Sample ID: LCS 480-630302/5
Matrix: Water
Analysis Batch: 630302

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Duplicates	60.0	65.01		mg/L		108	90 - 110
TOC Result 1	60.0	63.66		mg/L		106	90 - 110
TOC Result 2	60.0	66.36	*+	mg/L		111	90 - 110

Lab Sample ID: 480-198813-P-2 MS
Matrix: Water
Analysis Batch: 630302

Client Sample ID: 480-198813-P-2 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Duplicates	7.0		22.8	32.99		mg/L		114	54 - 131
TOC Result 1	7.0		22.8	33.26		mg/L		115	54 - 131

Method: SM 5310C - TOC (Continued)

Lab Sample ID: 480-198813-P-2 MS
Matrix: Water
Analysis Batch: 630302

Client Sample ID: 480-198813-P-2 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 2	7.0	*+	22.8	32.73		mg/L		113	54 - 131

Lab Sample ID: 480-198813-P-2 MSD
Matrix: Water
Analysis Batch: 630302

Client Sample ID: 480-198813-P-2 MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	7.0		22.8	32.27		mg/L		111	54 - 131	2	20
TOC Result 1	7.0		22.8	32.11		mg/L		110	54 - 131	4	20
TOC Result 2	7.0	*+	22.8	32.44		mg/L		112	54 - 131	1	20

Lab Sample ID: MB 480-630732/52
Matrix: Water
Analysis Batch: 630732

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		1.0		mg/L			06/18/22 14:00	1
TOC Result 1	ND		1.0		mg/L			06/18/22 14:00	1
TOC Result 2	ND		1.0		mg/L			06/18/22 14:00	1

Lab Sample ID: LCS 480-630732/53
Matrix: Water
Analysis Batch: 630732

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Duplicates	60.0	61.74		mg/L		103	90 - 110
TOC Result 1	60.0	59.44		mg/L		99	90 - 110
TOC Result 2	60.0	64.04		mg/L		107	90 - 110

Lab Sample ID: MB 480-631325/28
Matrix: Water
Analysis Batch: 631325

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		1.0		mg/L			06/22/22 18:15	1
TOC Result 1	ND		1.0		mg/L			06/22/22 18:15	1
TOC Result 2	ND		1.0		mg/L			06/22/22 18:15	1

Lab Sample ID: MB 480-631325/52
Matrix: Water
Analysis Batch: 631325

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		1.0		mg/L			06/23/22 00:40	1
TOC Result 1	ND		1.0		mg/L			06/23/22 00:40	1
TOC Result 2	ND		1.0		mg/L			06/23/22 00:40	1

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 480-631325/29
Matrix: Water
Analysis Batch: 631325

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Duplicates	60.0	61.85		mg/L		103	90 - 110
TOC Result 1	60.0	61.86		mg/L		103	90 - 110
TOC Result 2	60.0	61.85		mg/L		103	90 - 110

Lab Sample ID: LCS 480-631325/53
Matrix: Water
Analysis Batch: 631325

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Duplicates	60.0	62.51		mg/L		104	90 - 110
TOC Result 1	60.0	62.82		mg/L		105	90 - 110
TOC Result 2	60.0	62.20		mg/L		104	90 - 110

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
W	PS: Post-digestion spike was outside control limits

General Chemistry

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
b	Result Detected in the Unseeded Control blank (USB).
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
H3	Sample was received and analyzed past holding time.

Glossary

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

QC Association Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee LF Baseline Q2 2022

Job ID: 480-198720-1
SDG: 198720

GC/MS VOA

Analysis Batch: 629695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	8260C	
480-198720-2	CD-1RA	Total/NA	Water	8260C	
480-198720-3	MW-1B	Total/NA	Water	8260C	
480-198720-4	DUP CD-1RA	Total/NA	Water	8260C	
480-198720-5	TRIP BLANK 1	Total/NA	Water	8260C	
MB 480-629695/9	Method Blank	Total/NA	Water	8260C	
LCS 480-629695/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-629695/7	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 630178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-1	MW-1A	Total/NA	Water	8260C	
480-198813-2	MW-2A	Total/NA	Water	8260C	
480-198813-3	MW-2B	Total/NA	Water	8260C	
480-198813-4	MW-3A	Total/NA	Water	8260C	
480-198813-5	MW-3B	Total/NA	Water	8260C	
480-198813-6	MW-4A	Total/NA	Water	8260C	
480-198813-7	MW-5A	Total/NA	Water	8260C	
480-198813-8	MW-6A	Total/NA	Water	8260C	
480-198813-9	MW-6B	Total/NA	Water	8260C	
480-198813-10	MW-7A	Total/NA	Water	8260C	
480-198813-11	TRIP BLANK 1	Total/NA	Water	8260C	
MB 480-630178/8	Method Blank	Total/NA	Water	8260C	
LCS 480-630178/6	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 629117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198722-1	CD-1	Total/NA	Water	3510C	
480-198722-2	CD-1RA	Total/NA	Water	3510C	
480-198722-3	MW-1B	Total/NA	Water	3510C	
MB 480-629117/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-629117/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-629117/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 629253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198722-1	CD-1	Total/NA	Water	8270D SIM ID	629117
480-198722-2	CD-1RA	Total/NA	Water	8270D SIM ID	629117
480-198722-3	MW-1B	Total/NA	Water	8270D SIM ID	629117
MB 480-629117/1-A	Method Blank	Total/NA	Water	8270D SIM ID	629117
LCS 480-629117/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	629117
LCSD 480-629117/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM ID	629117

Prep Batch: 629476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198818-1	MW-1A	Total/NA	Water	3510C	
480-198818-2	MW-2A	Total/NA	Water	3510C	
480-198818-3	MW-2B	Total/NA	Water	3510C	
480-198818-4	MW-6A	Total/NA	Water	3510C	

GC/MS Semi VOA (Continued)

Prep Batch: 629476 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198818-5	MW-6B	Total/NA	Water	3510C	
MB 480-629476/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-629476/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 629619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198818-1	MW-1A	Total/NA	Water	8270D SIM ID	629476
480-198818-2	MW-2A	Total/NA	Water	8270D SIM ID	629476
480-198818-3	MW-2B	Total/NA	Water	8270D SIM ID	629476
480-198818-4	MW-6A	Total/NA	Water	8270D SIM ID	629476
480-198818-5	MW-6B	Total/NA	Water	8270D SIM ID	629476
MB 480-629476/1-A	Method Blank	Total/NA	Water	8270D SIM ID	629476
LCS 480-629476/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	629476

LCMS

Prep Batch: 180717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198722-1	CD-1	Total/NA	Water	3535	
480-198722-2	CD-1RA	Total/NA	Water	3535	
480-198722-3	MW-1B	Total/NA	Water	3535	
480-198818-1	MW-1A	Total/NA	Water	3535	
480-198818-2	MW-2A	Total/NA	Water	3535	
480-198818-3	MW-2B	Total/NA	Water	3535	
480-198818-4	MW-6A	Total/NA	Water	3535	
480-198818-5	MW-6B	Total/NA	Water	3535	
MB 200-180717/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-180717/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 200-180717/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 180744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198722-1	CD-1	Total/NA	Water	537 (modified)	180717
480-198722-2	CD-1RA	Total/NA	Water	537 (modified)	180717
480-198722-3	MW-1B	Total/NA	Water	537 (modified)	180717
480-198818-1	MW-1A	Total/NA	Water	537 (modified)	180717
480-198818-2	MW-2A	Total/NA	Water	537 (modified)	180717
480-198818-3	MW-2B	Total/NA	Water	537 (modified)	180717
480-198818-4	MW-6A	Total/NA	Water	537 (modified)	180717
480-198818-5	MW-6B	Total/NA	Water	537 (modified)	180717
MB 200-180717/1-A	Method Blank	Total/NA	Water	537 (modified)	180717
LCS 200-180717/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	180717
LCSD 200-180717/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	180717

Metals

Prep Batch: 629262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	3005A	
480-198720-2	CD-1RA	Total/NA	Water	3005A	
480-198720-3	MW-1B	Total/NA	Water	3005A	
480-198720-4	DUP CD-1RA	Total/NA	Water	3005A	

Metals (Continued)

Prep Batch: 629262 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-629262/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-629262/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 629561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	6010C	629262
480-198720-2	CD-1RA	Total/NA	Water	6010C	629262
480-198720-3	MW-1B	Total/NA	Water	6010C	629262
480-198720-4	DUP CD-1RA	Total/NA	Water	6010C	629262
MB 480-629262/1-A	Method Blank	Total/NA	Water	6010C	629262
LCS 480-629262/2-A	Lab Control Sample	Total/NA	Water	6010C	629262

Prep Batch: 629607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	7470A	
480-198720-2	CD-1RA	Total/NA	Water	7470A	
480-198720-3	MW-1B	Total/NA	Water	7470A	
480-198720-4	DUP CD-1RA	Total/NA	Water	7470A	
MB 480-629607/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-629607/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 629653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	SM 2340B	
480-198720-2	CD-1RA	Total/NA	Water	SM 2340B	
480-198720-3	MW-1B	Total/NA	Water	SM 2340B	
480-198720-4	DUP CD-1RA	Total/NA	Water	SM 2340B	

Prep Batch: 629664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-1	MW-1A	Total/NA	Water	3005A	
480-198813-2	MW-2A	Total/NA	Water	3005A	
480-198813-3	MW-2B	Total/NA	Water	3005A	
480-198813-4	MW-3A	Total/NA	Water	3005A	
480-198813-5	MW-3B	Total/NA	Water	3005A	
480-198813-6	MW-4A	Total/NA	Water	3005A	
480-198813-7	MW-5A	Total/NA	Water	3005A	
480-198813-8	MW-6A	Total/NA	Water	3005A	
480-198813-9	MW-6B	Total/NA	Water	3005A	
480-198813-10	MW-7A	Total/NA	Water	3005A	
MB 480-629664/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-629664/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-198813-3 MS	MW-2B	Total/NA	Water	3005A	
480-198813-3 MSD	MW-2B	Total/NA	Water	3005A	

Analysis Batch: 629668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	7470A	629607
480-198720-2	CD-1RA	Total/NA	Water	7470A	629607
480-198720-3	MW-1B	Total/NA	Water	7470A	629607
480-198720-4	DUP CD-1RA	Total/NA	Water	7470A	629607

Metals (Continued)

Analysis Batch: 629668 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-629607/1-A	Method Blank	Total/NA	Water	7470A	629607
LCS 480-629607/2-A	Lab Control Sample	Total/NA	Water	7470A	629607

Prep Batch: 629751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-1	MW-1A	Total/NA	Water	7470A	
480-198813-2	MW-2A	Total/NA	Water	7470A	
480-198813-3	MW-2B	Total/NA	Water	7470A	
480-198813-4	MW-3A	Total/NA	Water	7470A	
480-198813-5	MW-3B	Total/NA	Water	7470A	
480-198813-6	MW-4A	Total/NA	Water	7470A	
480-198813-7	MW-5A	Total/NA	Water	7470A	
480-198813-8	MW-6A	Total/NA	Water	7470A	
480-198813-9	MW-6B	Total/NA	Water	7470A	
480-198813-10	MW-7A	Total/NA	Water	7470A	
MB 480-629751/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-629751/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-198813-1 MS	MW-1A	Total/NA	Water	7470A	
480-198813-1 MSD	MW-1A	Total/NA	Water	7470A	

Analysis Batch: 629768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	6010C	629262
480-198720-2	CD-1RA	Total/NA	Water	6010C	629262
480-198720-3	MW-1B	Total/NA	Water	6010C	629262
480-198720-4	DUP CD-1RA	Total/NA	Water	6010C	629262

Filtration Batch: 629787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Dissolved	Water	FILTRATION	
480-198720-2	CD-1RA	Dissolved	Water	FILTRATION	
480-198720-4	DUP CD-1RA	Dissolved	Water	FILTRATION	
480-198813-2	MW-2A	Dissolved	Water	FILTRATION	
480-198813-8	MW-6A	Dissolved	Water	FILTRATION	
480-198813-10	MW-7A	Dissolved	Water	FILTRATION	
MB 480-629787/1-B	Method Blank	Dissolved	Water	FILTRATION	
MB 480-629787/1-C	Method Blank	Dissolved	Water	FILTRATION	
LCS 480-629787/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCS 480-629787/2-C	Lab Control Sample	Dissolved	Water	FILTRATION	
480-198720-2 MS	CD-1RA	Dissolved	Water	FILTRATION	
480-198720-2 MSD	CD-1RA	Dissolved	Water	FILTRATION	
480-198720-4 MS	DUP CD-1RA	Dissolved	Water	FILTRATION	
480-198720-4 MSD	DUP CD-1RA	Dissolved	Water	FILTRATION	

Prep Batch: 629816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Dissolved	Water	3005A	629787
480-198720-2	CD-1RA	Dissolved	Water	3005A	629787
480-198720-4	DUP CD-1RA	Dissolved	Water	3005A	629787
480-198813-2	MW-2A	Dissolved	Water	3005A	629787
480-198813-8	MW-6A	Dissolved	Water	3005A	629787

Metals (Continued)

Prep Batch: 629816 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-10	MW-7A	Dissolved	Water	3005A	629787
MB 480-629787/1-B	Method Blank	Dissolved	Water	3005A	629787
LCS 480-629787/2-B	Lab Control Sample	Dissolved	Water	3005A	629787
480-198720-2 MS	CD-1RA	Dissolved	Water	3005A	629787
480-198720-2 MSD	CD-1RA	Dissolved	Water	3005A	629787

Analysis Batch: 629882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-1	MW-1A	Total/NA	Water	7470A	629751
480-198813-2	MW-2A	Total/NA	Water	7470A	629751
480-198813-3	MW-2B	Total/NA	Water	7470A	629751
480-198813-4	MW-3A	Total/NA	Water	7470A	629751
480-198813-5	MW-3B	Total/NA	Water	7470A	629751
480-198813-6	MW-4A	Total/NA	Water	7470A	629751
480-198813-7	MW-5A	Total/NA	Water	7470A	629751
480-198813-8	MW-6A	Total/NA	Water	7470A	629751
480-198813-9	MW-6B	Total/NA	Water	7470A	629751
480-198813-10	MW-7A	Total/NA	Water	7470A	629751
MB 480-629751/1-A	Method Blank	Total/NA	Water	7470A	629751
LCS 480-629751/2-A	Lab Control Sample	Total/NA	Water	7470A	629751
480-198813-1 MS	MW-1A	Total/NA	Water	7470A	629751
480-198813-1 MSD	MW-1A	Total/NA	Water	7470A	629751

Prep Batch: 629926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Dissolved	Water	7470A	629787
480-198720-2	CD-1RA	Dissolved	Water	7470A	629787
480-198720-4	DUP CD-1RA	Dissolved	Water	7470A	629787
480-198813-2	MW-2A	Dissolved	Water	7470A	629787
480-198813-8	MW-6A	Dissolved	Water	7470A	629787
480-198813-10	MW-7A	Dissolved	Water	7470A	629787
MB 480-629787/1-C	Method Blank	Dissolved	Water	7470A	629787
LCS 480-629787/2-C	Lab Control Sample	Dissolved	Water	7470A	629787
480-198720-4 MS	DUP CD-1RA	Dissolved	Water	7470A	629787
480-198720-4 MSD	DUP CD-1RA	Dissolved	Water	7470A	629787

Analysis Batch: 629955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-1	MW-1A	Total/NA	Water	6010C	629664
480-198813-2	MW-2A	Total/NA	Water	6010C	629664
480-198813-3	MW-2B	Total/NA	Water	6010C	629664
480-198813-4	MW-3A	Total/NA	Water	6010C	629664
480-198813-5	MW-3B	Total/NA	Water	6010C	629664
480-198813-6	MW-4A	Total/NA	Water	6010C	629664
480-198813-7	MW-5A	Total/NA	Water	6010C	629664
480-198813-8	MW-6A	Total/NA	Water	6010C	629664
480-198813-9	MW-6B	Total/NA	Water	6010C	629664
480-198813-10	MW-7A	Total/NA	Water	6010C	629664
MB 480-629664/1-A	Method Blank	Total/NA	Water	6010C	629664
LCS 480-629664/2-A	Lab Control Sample	Total/NA	Water	6010C	629664
480-198813-3 MS	MW-2B	Total/NA	Water	6010C	629664

Metals (Continued)

Analysis Batch: 629955 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-3 MSD	MW-2B	Total/NA	Water	6010C	629664

Analysis Batch: 630021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Dissolved	Water	7470A	629926
480-198720-2	CD-1RA	Dissolved	Water	7470A	629926
480-198720-4	DUP CD-1RA	Dissolved	Water	7470A	629926
480-198813-2	MW-2A	Dissolved	Water	7470A	629926
480-198813-8	MW-6A	Dissolved	Water	7470A	629926
480-198813-10	MW-7A	Dissolved	Water	7470A	629926
MB 480-629787/1-C	Method Blank	Dissolved	Water	7470A	629926
LCS 480-629787/2-C	Lab Control Sample	Dissolved	Water	7470A	629926
480-198720-4 MS	DUP CD-1RA	Dissolved	Water	7470A	629926
480-198720-4 MSD	DUP CD-1RA	Dissolved	Water	7470A	629926

Analysis Batch: 630098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-9	MW-6B	Total/NA	Water	6010C	629664
480-198813-10	MW-7A	Total/NA	Water	6010C	629664

Analysis Batch: 630310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Dissolved	Water	6010C	629816
480-198720-2	CD-1RA	Dissolved	Water	6010C	629816
480-198720-4	DUP CD-1RA	Dissolved	Water	6010C	629816
480-198813-2	MW-2A	Dissolved	Water	6010C	629816
480-198813-8	MW-6A	Dissolved	Water	6010C	629816
480-198813-10	MW-7A	Dissolved	Water	6010C	629816
MB 480-629787/1-B	Method Blank	Dissolved	Water	6010C	629816
LCS 480-629787/2-B	Lab Control Sample	Dissolved	Water	6010C	629816
480-198720-2 MS	CD-1RA	Dissolved	Water	6010C	629816
480-198720-2 MSD	CD-1RA	Dissolved	Water	6010C	629816

Analysis Batch: 630342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-1	MW-1A	Total/NA	Water	SM 2340B	
480-198813-2	MW-2A	Total/NA	Water	SM 2340B	
480-198813-3	MW-2B	Total/NA	Water	SM 2340B	
480-198813-4	MW-3A	Total/NA	Water	SM 2340B	
480-198813-5	MW-3B	Total/NA	Water	SM 2340B	
480-198813-6	MW-4A	Total/NA	Water	SM 2340B	
480-198813-7	MW-5A	Total/NA	Water	SM 2340B	
480-198813-8	MW-6A	Total/NA	Water	SM 2340B	
480-198813-9	MW-6B	Total/NA	Water	SM 2340B	
480-198813-10	MW-7A	Total/NA	Water	SM 2340B	

General Chemistry

Analysis Batch: 629118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	7196A	

General Chemistry (Continued)

Analysis Batch: 629118 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-2	CD-1RA	Total/NA	Water	7196A	
480-198720-3	MW-1B	Total/NA	Water	7196A	
480-198720-4	DUP CD-1RA	Total/NA	Water	7196A	
MB 480-629118/27	Method Blank	Total/NA	Water	7196A	
MB 480-629118/3	Method Blank	Total/NA	Water	7196A	
LCS 480-629118/28	Lab Control Sample	Total/NA	Water	7196A	
LCS 480-629118/4	Lab Control Sample	Total/NA	Water	7196A	
480-198720-4 MS	DUP CD-1RA	Total/NA	Water	7196A	
480-198720-3 DU	MW-1B	Total/NA	Water	7196A	

Analysis Batch: 629139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	SM 2120B	
480-198720-2	CD-1RA	Total/NA	Water	SM 2120B	
480-198720-3	MW-1B	Total/NA	Water	SM 2120B	
480-198720-4	DUP CD-1RA	Total/NA	Water	SM 2120B	
MB 480-629139/3	Method Blank	Total/NA	Water	SM 2120B	
LCS 480-629139/4	Lab Control Sample	Total/NA	Water	SM 2120B	

Analysis Batch: 629154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	SM 5210B	
480-198720-2	CD-1RA	Total/NA	Water	SM 5210B	
480-198720-3	MW-1B	Total/NA	Water	SM 5210B	
480-198720-4	DUP CD-1RA	Total/NA	Water	SM 5210B	
USB 480-629154/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-629154/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 629156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	353.2	
480-198720-2	CD-1RA	Total/NA	Water	353.2	
480-198720-3	MW-1B	Total/NA	Water	353.2	
480-198720-4	DUP CD-1RA	Total/NA	Water	353.2	

Analysis Batch: 629188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	350.1	
480-198720-2	CD-1RA	Total/NA	Water	350.1	
480-198720-3	MW-1B	Total/NA	Water	350.1	
480-198720-4	DUP CD-1RA	Total/NA	Water	350.1	
MB 480-629188/3	Method Blank	Total/NA	Water	350.1	
LCS 480-629188/4	Lab Control Sample	Total/NA	Water	350.1	
480-198720-4 MS	DUP CD-1RA	Total/NA	Water	350.1	
480-198720-4 DU	DUP CD-1RA	Total/NA	Water	350.1	

Analysis Batch: 629307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	310.2	
480-198720-2	CD-1RA	Total/NA	Water	310.2	
480-198720-3	MW-1B	Total/NA	Water	310.2	

General Chemistry (Continued)

Analysis Batch: 629307 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-4	DUP CD-1RA	Total/NA	Water	310.2	
MB 480-629307/17	Method Blank	Total/NA	Water	310.2	
MB 480-629307/21	Method Blank	Total/NA	Water	310.2	
MB 480-629307/56	Method Blank	Total/NA	Water	310.2	
MB 480-629307/62	Method Blank	Total/NA	Water	310.2	
MB 480-629307/66	Method Blank	Total/NA	Water	310.2	
MB 480-629307/80	Method Blank	Total/NA	Water	310.2	
MB 480-629307/85	Method Blank	Total/NA	Water	310.2	
LCS 480-629307/20	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-629307/59	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-629307/65	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-629307/84	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 629332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-2	CD-1RA	Total/NA	Water	SM 4500 Cl- E	
480-198720-3	MW-1B	Total/NA	Water	SM 4500 Cl- E	
480-198720-4	DUP CD-1RA	Total/NA	Water	SM 4500 Cl- E	
MB 480-629332/243	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-629332/252	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-629332/262	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-629332/276	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-629332/287	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-629332/301	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-629332/313	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 480-629332/251	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-629332/275	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-629332/300	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-629332/312	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 629374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-3	MW-1B	Total/NA	Water	SM 2540C	
480-198720-4	DUP CD-1RA	Total/NA	Water	SM 2540C	
MB 480-629374/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-629374/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-198720-3 DU	MW-1B	Total/NA	Water	SM 2540C	

Analysis Batch: 629377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	SM 2540C	
480-198720-2	CD-1RA	Total/NA	Water	SM 2540C	
MB 480-629377/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-629377/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-198720-2 DU	CD-1RA	Total/NA	Water	SM 2540C	

Analysis Batch: 629426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-1	MW-1A	Total/NA	Water	7196A	
480-198813-2	MW-2A	Total/NA	Water	7196A	
480-198813-3	MW-2B	Total/NA	Water	7196A	

General Chemistry (Continued)

Analysis Batch: 629426 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-4	MW-3A	Total/NA	Water	7196A	
480-198813-5	MW-3B	Total/NA	Water	7196A	
480-198813-6	MW-4A	Total/NA	Water	7196A	
480-198813-7	MW-5A	Total/NA	Water	7196A	
480-198813-8	MW-6A	Total/NA	Water	7196A	
480-198813-9	MW-6B	Total/NA	Water	7196A	
480-198813-10	MW-7A	Total/NA	Water	7196A	
MB 480-629426/3	Method Blank	Total/NA	Water	7196A	
LCS 480-629426/4	Lab Control Sample	Total/NA	Water	7196A	
480-198813-5 MS	MW-3B	Total/NA	Water	7196A	
480-198813-9 MS	MW-6B	Total/NA	Water	7196A	
480-198813-4 DU	MW-3A	Total/NA	Water	7196A	
480-198813-7 DU	MW-5A	Total/NA	Water	7196A	

Analysis Batch: 629495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	9038	
480-198720-2	CD-1RA	Total/NA	Water	9038	
480-198720-3	MW-1B	Total/NA	Water	9038	
480-198720-4	DUP CD-1RA	Total/NA	Water	9038	
480-198813-1	MW-1A	Total/NA	Water	9038	
480-198813-2	MW-2A	Total/NA	Water	9038	
480-198813-3	MW-2B	Total/NA	Water	9038	
480-198813-4	MW-3A	Total/NA	Water	9038	
480-198813-5	MW-3B	Total/NA	Water	9038	
480-198813-6	MW-4A	Total/NA	Water	9038	
480-198813-7	MW-5A	Total/NA	Water	9038	
480-198813-8	MW-6A	Total/NA	Water	9038	
480-198813-9	MW-6B	Total/NA	Water	9038	
480-198813-10	MW-7A	Total/NA	Water	9038	
MB 480-629495/117	Method Blank	Total/NA	Water	9038	
MB 480-629495/128	Method Blank	Total/NA	Water	9038	
MB 480-629495/156	Method Blank	Total/NA	Water	9038	
MB 480-629495/167	Method Blank	Total/NA	Water	9038	
MB 480-629495/179	Method Blank	Total/NA	Water	9038	
MB 480-629495/53	Method Blank	Total/NA	Water	9038	
LCS 480-629495/118	Lab Control Sample	Total/NA	Water	9038	
LCS 480-629495/129	Lab Control Sample	Total/NA	Water	9038	
LCS 480-629495/163	Lab Control Sample	Total/NA	Water	9038	
LCS 480-629495/174	Lab Control Sample	Total/NA	Water	9038	
LCS 480-629495/54	Lab Control Sample	Total/NA	Water	9038	
480-198813-8 MS	MW-6A	Total/NA	Water	9038	
480-198813-8 MSD	MW-6A	Total/NA	Water	9038	

Analysis Batch: 629501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-1	MW-1A	Total/NA	Water	SM 2120B	
480-198813-2	MW-2A	Total/NA	Water	SM 2120B	
480-198813-3	MW-2B	Total/NA	Water	SM 2120B	
480-198813-4	MW-3A	Total/NA	Water	SM 2120B	
480-198813-5	MW-3B	Total/NA	Water	SM 2120B	

General Chemistry (Continued)

Analysis Batch: 629501 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-6	MW-4A	Total/NA	Water	SM 2120B	
480-198813-7	MW-5A	Total/NA	Water	SM 2120B	
480-198813-8	MW-6A	Total/NA	Water	SM 2120B	
480-198813-9	MW-6B	Total/NA	Water	SM 2120B	
480-198813-10	MW-7A	Total/NA	Water	SM 2120B	
MB 480-629501/3	Method Blank	Total/NA	Water	SM 2120B	
LCS 480-629501/4	Lab Control Sample	Total/NA	Water	SM 2120B	
480-198813-1 DU	MW-1A	Total/NA	Water	SM 2120B	
480-198813-8 DU	MW-6A	Total/NA	Water	SM 2120B	

Analysis Batch: 629517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-1	MW-1A	Total/NA	Water	SM 5210B	
480-198813-2	MW-2A	Total/NA	Water	SM 5210B	
480-198813-3	MW-2B	Total/NA	Water	SM 5210B	
480-198813-4	MW-3A	Total/NA	Water	SM 5210B	
480-198813-5	MW-3B	Total/NA	Water	SM 5210B	
480-198813-6	MW-4A	Total/NA	Water	SM 5210B	
480-198813-7	MW-5A	Total/NA	Water	SM 5210B	
480-198813-8	MW-6A	Total/NA	Water	SM 5210B	
480-198813-9	MW-6B	Total/NA	Water	SM 5210B	
480-198813-10	MW-7A	Total/NA	Water	SM 5210B	
USB 480-629517/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-629517/2	Lab Control Sample	Total/NA	Water	SM 5210B	
480-198813-6 DU	MW-4A	Total/NA	Water	SM 5210B	

Analysis Batch: 629525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-1	MW-1A	Total/NA	Water	353.2	
480-198813-2	MW-2A	Total/NA	Water	353.2	
480-198813-3	MW-2B	Total/NA	Water	353.2	
480-198813-4	MW-3A	Total/NA	Water	353.2	
480-198813-5	MW-3B	Total/NA	Water	353.2	
480-198813-6	MW-4A	Total/NA	Water	353.2	
480-198813-7	MW-5A	Total/NA	Water	353.2	
480-198813-8	MW-6A	Total/NA	Water	353.2	
480-198813-9	MW-6B	Total/NA	Water	353.2	
480-198813-10	MW-7A	Total/NA	Water	353.2	

Analysis Batch: 629552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-1	MW-1A	Total/NA	Water	SM 2540C	
480-198813-2	MW-2A	Total/NA	Water	SM 2540C	
480-198813-3	MW-2B	Total/NA	Water	SM 2540C	
480-198813-4	MW-3A	Total/NA	Water	SM 2540C	
480-198813-5	MW-3B	Total/NA	Water	SM 2540C	
480-198813-6	MW-4A	Total/NA	Water	SM 2540C	
480-198813-7	MW-5A	Total/NA	Water	SM 2540C	
480-198813-8	MW-6A	Total/NA	Water	SM 2540C	
MB 480-629552/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-629552/2	Lab Control Sample	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 629552 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-7 DU	MW-5A	Total/NA	Water	SM 2540C	

Analysis Batch: 629604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-1	MW-1A	Total/NA	Water	350.1	
480-198813-2	MW-2A	Total/NA	Water	350.1	
480-198813-3	MW-2B	Total/NA	Water	350.1	
480-198813-4	MW-3A	Total/NA	Water	350.1	
480-198813-5	MW-3B	Total/NA	Water	350.1	
480-198813-6	MW-4A	Total/NA	Water	350.1	
480-198813-7	MW-5A	Total/NA	Water	350.1	
480-198813-8	MW-6A	Total/NA	Water	350.1	
480-198813-9	MW-6B	Total/NA	Water	350.1	
480-198813-10	MW-7A	Total/NA	Water	350.1	
MB 480-629604/3	Method Blank	Total/NA	Water	350.1	
MB 480-629604/51	Method Blank	Total/NA	Water	350.1	
LCS 480-629604/4	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-629604/52	Lab Control Sample	Total/NA	Water	350.1	
480-198813-1 MS	MW-1A	Total/NA	Water	350.1	
480-198813-5 MS	MW-3B	Total/NA	Water	350.1	
480-198813-5 DU	MW-3B	Total/NA	Water	350.1	

Prep Batch: 629693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	Distill/CN	
480-198720-2	CD-1RA	Total/NA	Water	Distill/CN	
480-198720-3	MW-1B	Total/NA	Water	Distill/CN	
MB 480-629693/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-629693/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCS 480-629693/3-A	Lab Control Sample	Total/NA	Water	Distill/CN	
480-198720-3 MS	MW-1B	Total/NA	Water	Distill/CN	

Prep Batch: 629708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-3	MW-1B	Total/NA	Water	351.2	
MB 480-629708/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-629708/2-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 629750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-9	MW-6B	Total/NA	Water	SM 2540C	
480-198813-10	MW-7A	Total/NA	Water	SM 2540C	
MB 480-629750/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-629750/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 629788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-3	MW-1B	Total/NA	Water	351.2	629708
MB 480-629708/1-A	Method Blank	Total/NA	Water	351.2	629708
LCS 480-629708/2-A	Lab Control Sample	Total/NA	Water	351.2	629708

General Chemistry

Analysis Batch: 629819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	335.4	629693
480-198720-2	CD-1RA	Total/NA	Water	335.4	629693
480-198720-3	MW-1B	Total/NA	Water	335.4	629693
MB 480-629693/1-A	Method Blank	Total/NA	Water	335.4	629693
LCS 480-629693/2-A	Lab Control Sample	Total/NA	Water	335.4	629693
LCS 480-629693/3-A	Lab Control Sample	Total/NA	Water	335.4	629693
480-198720-3 MS	MW-1B	Total/NA	Water	335.4	629693

Prep Batch: 629826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-1	MW-1A	Total/NA	Water	351.2	
480-198813-2	MW-2A	Total/NA	Water	351.2	
480-198813-3	MW-2B	Total/NA	Water	351.2	
480-198813-4	MW-3A	Total/NA	Water	351.2	
480-198813-5	MW-3B	Total/NA	Water	351.2	
480-198813-6	MW-4A	Total/NA	Water	351.2	
480-198813-7	MW-5A	Total/NA	Water	351.2	
480-198813-8	MW-6A	Total/NA	Water	351.2	
480-198813-9	MW-6B	Total/NA	Water	351.2	
480-198813-10	MW-7A	Total/NA	Water	351.2	
MB 480-629826/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-629826/2-A	Lab Control Sample	Total/NA	Water	351.2	
480-198813-2 MS	MW-2A	Total/NA	Water	351.2	
480-198813-1 DU	MW-1A	Total/NA	Water	351.2	

Analysis Batch: 629847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	420.4	
480-198720-2	CD-1RA	Total/NA	Water	420.4	
480-198720-3	MW-1B	Total/NA	Water	420.4	
480-198720-4	DUP CD-1RA	Total/NA	Water	420.4	
480-198813-1	MW-1A	Total/NA	Water	420.4	
480-198813-2	MW-2A	Total/NA	Water	420.4	
480-198813-3	MW-2B	Total/NA	Water	420.4	
480-198813-4	MW-3A	Total/NA	Water	420.4	
480-198813-5	MW-3B	Total/NA	Water	420.4	
480-198813-6	MW-4A	Total/NA	Water	420.4	
480-198813-7	MW-5A	Total/NA	Water	420.4	
480-198813-8	MW-6A	Total/NA	Water	420.4	
480-198813-9	MW-6B	Total/NA	Water	420.4	
480-198813-10	MW-7A	Total/NA	Water	420.4	
MB 480-629847/16	Method Blank	Total/NA	Water	420.4	
MB 480-629847/45	Method Blank	Total/NA	Water	420.4	
MB 480-629847/73	Method Blank	Total/NA	Water	420.4	
LCS 480-629847/17	Lab Control Sample	Total/NA	Water	420.4	
LCS 480-629847/46	Lab Control Sample	Total/NA	Water	420.4	
LCS 480-629847/74	Lab Control Sample	Total/NA	Water	420.4	
480-198720-1 MS	CD-1	Total/NA	Water	420.4	
480-198813-5 MS	MW-3B	Total/NA	Water	420.4	
480-198720-1 DU	CD-1	Total/NA	Water	420.4	

General Chemistry

Filtration Batch: 629854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-629854/1-A	Method Blank	Total/NA	Water	Filtration	
LCS 480-629854/2-A	Lab Control Sample	Total/NA	Water	Filtration	

Analysis Batch: 629883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	300.0	
480-198720-2	CD-1RA	Total/NA	Water	300.0	
480-198720-3	MW-1B	Total/NA	Water	300.0	
480-198720-4	DUP CD-1RA	Total/NA	Water	300.0	
MB 480-629883/4	Method Blank	Total/NA	Water	300.0	
LCS 480-629883/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 629963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-1	MW-1A	Total/NA	Water	351.2	629826
480-198813-2	MW-2A	Total/NA	Water	351.2	629826
480-198813-3	MW-2B	Total/NA	Water	351.2	629826
480-198813-4	MW-3A	Total/NA	Water	351.2	629826
480-198813-5	MW-3B	Total/NA	Water	351.2	629826
480-198813-6	MW-4A	Total/NA	Water	351.2	629826
480-198813-7	MW-5A	Total/NA	Water	351.2	629826
480-198813-8	MW-6A	Total/NA	Water	351.2	629826
480-198813-9	MW-6B	Total/NA	Water	351.2	629826
480-198813-10	MW-7A	Total/NA	Water	351.2	629826
MB 480-629826/1-A	Method Blank	Total/NA	Water	351.2	629826
LCS 480-629826/2-A	Lab Control Sample	Total/NA	Water	351.2	629826
480-198813-2 MS	MW-2A	Total/NA	Water	351.2	629826
480-198813-1 DU	MW-1A	Total/NA	Water	351.2	629826

Analysis Batch: 629996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	SM 5310C	
480-198720-2	CD-1RA	Total/NA	Water	SM 5310C	
480-198720-3	MW-1B	Total/NA	Water	SM 5310C	
480-198720-4	DUP CD-1RA	Total/NA	Water	SM 5310C	
MB 480-629996/28	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-629996/29	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 630049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	410.4	
480-198720-2	CD-1RA	Total/NA	Water	410.4	
480-198720-3	MW-1B	Total/NA	Water	410.4	
480-198720-4	DUP CD-1RA	Total/NA	Water	410.4	
480-198813-1	MW-1A	Total/NA	Water	410.4	
480-198813-2	MW-2A	Total/NA	Water	410.4	
480-198813-3	MW-2B	Total/NA	Water	410.4	
480-198813-4	MW-3A	Total/NA	Water	410.4	
480-198813-5	MW-3B	Total/NA	Water	410.4	
480-198813-6	MW-4A	Total/NA	Water	410.4	
480-198813-7	MW-5A	Total/NA	Water	410.4	

General Chemistry (Continued)

Analysis Batch: 630049 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-8	MW-6A	Total/NA	Water	410.4	
480-198813-9	MW-6B	Total/NA	Water	410.4	
480-198813-10	MW-7A	Total/NA	Water	410.4	
MB 480-630049/27	Method Blank	Total/NA	Water	410.4	
MB 480-630049/3	Method Blank	Total/NA	Water	410.4	
LCS 480-630049/28	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-630049/4	Lab Control Sample	Total/NA	Water	410.4	
480-198720-4 MS	DUP CD-1RA	Total/NA	Water	410.4	
480-198720-4 MSD	DUP CD-1RA	Total/NA	Water	410.4	
480-198813-6 MS	MW-4A	Total/NA	Water	410.4	
480-198813-6 MSD	MW-4A	Total/NA	Water	410.4	
480-198813-9 MS	MW-6B	Total/NA	Water	410.4	

Prep Batch: 630167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	351.2	
480-198720-2	CD-1RA	Total/NA	Water	351.2	
480-198720-4	DUP CD-1RA	Total/NA	Water	351.2	
MB 480-630167/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-630167/2-A	Lab Control Sample	Total/NA	Water	351.2	

Prep Batch: 630206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-4	DUP CD-1RA	Total/NA	Water	Distill/CN	
MB 480-630206/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-630206/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCS 480-630206/3-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 630215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-1	MW-1A	Total/NA	Water	300.0	
480-198813-2	MW-2A	Total/NA	Water	300.0	
480-198813-3	MW-2B	Total/NA	Water	300.0	
480-198813-4	MW-3A	Total/NA	Water	300.0	
480-198813-5	MW-3B	Total/NA	Water	300.0	
480-198813-6	MW-4A	Total/NA	Water	300.0	
MB 480-630215/4	Method Blank	Total/NA	Water	300.0	
LCS 480-630215/5	Lab Control Sample	Total/NA	Water	300.0	
480-198813-6 MS	MW-4A	Total/NA	Water	300.0	

Analysis Batch: 630238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-4	DUP CD-1RA	Total/NA	Water	335.4	630206
MB 480-630206/1-A	Method Blank	Total/NA	Water	335.4	630206
LCS 480-630206/2-A	Lab Control Sample	Total/NA	Water	335.4	630206
LCS 480-630206/3-A	Lab Control Sample	Total/NA	Water	335.4	630206

Analysis Batch: 630270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	351.2	630167
480-198720-2	CD-1RA	Total/NA	Water	351.2	630167

General Chemistry (Continued)

Analysis Batch: 630270 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-4	DUP CD-1RA	Total/NA	Water	351.2	630167
MB 480-630167/1-A	Method Blank	Total/NA	Water	351.2	630167
LCS 480-630167/2-A	Lab Control Sample	Total/NA	Water	351.2	630167

Analysis Batch: 630302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-1	MW-1A	Total/NA	Water	SM 5310C	
480-198813-7	MW-5A	Total/NA	Water	SM 5310C	
MB 480-629854/1-A	Method Blank	Total/NA	Water	SM 5310C	629854
MB 480-630302/4	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-629854/2-A	Lab Control Sample	Total/NA	Water	SM 5310C	629854
LCS 480-630302/5	Lab Control Sample	Total/NA	Water	SM 5310C	
480-198813-P-2 MS	480-198813-P-2 MS	Total/NA	Water	SM 5310C	
480-198813-P-2 MSD	480-198813-P-2 MSD	Total/NA	Water	SM 5310C	

Prep Batch: 630398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-1	MW-1A	Total/NA	Water	Distill/CN	
480-198813-2	MW-2A	Total/NA	Water	Distill/CN	
480-198813-3	MW-2B	Total/NA	Water	Distill/CN	
480-198813-4	MW-3A	Total/NA	Water	Distill/CN	
480-198813-5	MW-3B	Total/NA	Water	Distill/CN	
480-198813-6	MW-4A	Total/NA	Water	Distill/CN	
480-198813-7	MW-5A	Total/NA	Water	Distill/CN	
480-198813-8	MW-6A	Total/NA	Water	Distill/CN	
480-198813-9	MW-6B	Total/NA	Water	Distill/CN	
MB 480-630398/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-630398/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 630471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-1	MW-1A	Total/NA	Water	335.4	630398
480-198813-2	MW-2A	Total/NA	Water	335.4	630398
480-198813-3	MW-2B	Total/NA	Water	335.4	630398
480-198813-4	MW-3A	Total/NA	Water	335.4	630398
480-198813-5	MW-3B	Total/NA	Water	335.4	630398
480-198813-6	MW-4A	Total/NA	Water	335.4	630398
480-198813-7	MW-5A	Total/NA	Water	335.4	630398
480-198813-8	MW-6A	Total/NA	Water	335.4	630398
480-198813-9	MW-6B	Total/NA	Water	335.4	630398
MB 480-630398/1-A	Method Blank	Total/NA	Water	335.4	630398
LCS 480-630398/2-A	Lab Control Sample	Total/NA	Water	335.4	630398

Prep Batch: 630516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-10	MW-7A	Total/NA	Water	Distill/CN	
MB 480-630516/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-630516/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCS 480-630516/3-A	Lab Control Sample	Total/NA	Water	Distill/CN	
480-198813-10 MS	MW-7A	Total/NA	Water	Distill/CN	

General Chemistry

Analysis Batch: 630539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-10	MW-7A	Total/NA	Water	335.4	630516
MB 480-630516/1-A	Method Blank	Total/NA	Water	335.4	630516
LCS 480-630516/2-A	Lab Control Sample	Total/NA	Water	335.4	630516
LCS 480-630516/3-A	Lab Control Sample	Total/NA	Water	335.4	630516
480-198813-10 MS	MW-7A	Total/NA	Water	335.4	630516

Analysis Batch: 630550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-7	MW-5A	Total/NA	Water	300.0	
480-198813-8	MW-6A	Total/NA	Water	300.0	
480-198813-9	MW-6B	Total/NA	Water	300.0	
480-198813-10	MW-7A	Total/NA	Water	300.0	
MB 480-630550/4	Method Blank	Total/NA	Water	300.0	
LCS 480-630550/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 630732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-8	MW-6A	Total/NA	Water	SM 5310C	
480-198813-10	MW-7A	Total/NA	Water	SM 5310C	
MB 480-630732/52	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-630732/53	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 630965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	310.2	
480-198813-1	MW-1A	Total/NA	Water	310.2	
480-198813-2	MW-2A	Total/NA	Water	310.2	
480-198813-3	MW-2B	Total/NA	Water	310.2	
480-198813-4	MW-3A	Total/NA	Water	310.2	
480-198813-5	MW-3B	Total/NA	Water	310.2	
480-198813-6	MW-4A	Total/NA	Water	310.2	
480-198813-7	MW-5A	Total/NA	Water	310.2	
480-198813-8	MW-6A	Total/NA	Water	310.2	
480-198813-9	MW-6B	Total/NA	Water	310.2	
480-198813-10	MW-7A	Total/NA	Water	310.2	
MB 480-630965/21	Method Blank	Total/NA	Water	310.2	
MB 480-630965/215	Method Blank	Total/NA	Water	310.2	
MB 480-630965/221	Method Blank	Total/NA	Water	310.2	
MB 480-630965/30	Method Blank	Total/NA	Water	310.2	
MB 480-630965/40	Method Blank	Total/NA	Water	310.2	
MB 480-630965/64	Method Blank	Total/NA	Water	310.2	
MB 480-630965/76	Method Blank	Total/NA	Water	310.2	
MB 480-630965/88	Method Blank	Total/NA	Water	310.2	
LCS 480-630965/220	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-630965/29	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-630965/39	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-630965/75	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-630965/87	Lab Control Sample	Total/NA	Water	310.2	
480-198720-1 MS	CD-1	Total/NA	Water	310.2	
480-198720-1 MSD	CD-1	Total/NA	Water	310.2	

General Chemistry

Analysis Batch: 631325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198813-2	MW-2A	Total/NA	Water	SM 5310C	
480-198813-3	MW-2B	Total/NA	Water	SM 5310C	
480-198813-4	MW-3A	Total/NA	Water	SM 5310C	
480-198813-5	MW-3B	Total/NA	Water	SM 5310C	
480-198813-6	MW-4A	Total/NA	Water	SM 5310C	
480-198813-9	MW-6B	Total/NA	Water	SM 5310C	
MB 480-631325/28	Method Blank	Total/NA	Water	SM 5310C	
MB 480-631325/52	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-631325/29	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-631325/53	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 631684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198720-1	CD-1	Total/NA	Water	SM 4500 Cl- E	
480-198813-1	MW-1A	Total/NA	Water	SM 4500 Cl- E	
480-198813-2	MW-2A	Total/NA	Water	SM 4500 Cl- E	
480-198813-3	MW-2B	Total/NA	Water	SM 4500 Cl- E	
480-198813-4	MW-3A	Total/NA	Water	SM 4500 Cl- E	
480-198813-5	MW-3B	Total/NA	Water	SM 4500 Cl- E	
480-198813-6	MW-4A	Total/NA	Water	SM 4500 Cl- E	
480-198813-7	MW-5A	Total/NA	Water	SM 4500 Cl- E	
480-198813-8	MW-6A	Total/NA	Water	SM 4500 Cl- E	
480-198813-9	MW-6B	Total/NA	Water	SM 4500 Cl- E	
480-198813-10	MW-7A	Total/NA	Water	SM 4500 Cl- E	
MB 480-631684/105	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-631684/125	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-631684/129	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-631684/13	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-631684/141	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-631684/17	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-631684/93	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-631684/97	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 480-631684/103	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-631684/127	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-631684/139	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-631684/15	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-631684/95	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
480-198813-3 MS	MW-2B	Total/NA	Water	SM 4500 Cl- E	
480-198813-3 MSD	MW-2B	Total/NA	Water	SM 4500 Cl- E	
480-198813-4 MS	MW-3A	Total/NA	Water	SM 4500 Cl- E	
480-198813-4 MSD	MW-3A	Total/NA	Water	SM 4500 Cl- E	

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee LF Baseline Q2 2022

Job ID: 480-198720-1
SDG: 198720

Client Sample ID: CD-1

Date Collected: 06/06/22 13:20
Date Received: 06/07/22 10:00

Lab Sample ID: 480-198720-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	629695	06/12/22 02:10	CRL	TAL BUF
Dissolved	Filtration	FILTRATION			629787	06/13/22 10:31	NBS	TAL BUF
Dissolved	Prep	3005A			629816	06/14/22 09:55	NBS	TAL BUF
Dissolved	Analysis	6010C		1	630310	06/15/22 12:59	LMH	TAL BUF
Total/NA	Prep	3005A			629262	06/09/22 13:09	VAK	TAL BUF
Total/NA	Analysis	6010C		1	629561	06/10/22 02:38	LMH	TAL BUF
Total/NA	Prep	3005A			629262	06/09/22 13:09	VAK	TAL BUF
Total/NA	Analysis	6010C		1	629768	06/10/22 15:03	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			629787	06/13/22 10:31	NBS	TAL BUF
Dissolved	Prep	7470A			629926	06/14/22 10:39	NBS	TAL BUF
Dissolved	Analysis	7470A		1	630021	06/14/22 13:54	NVK	TAL BUF
Total/NA	Prep	7470A			629607	06/10/22 12:25	VAK	TAL BUF
Total/NA	Analysis	7470A		1	629668	06/10/22 16:42	NVK	TAL BUF
Total/NA	Analysis	SM 2340B		1	629653	06/10/22 15:08	JJP	TAL BUF
Total/NA	Analysis	300.0		1	629883	06/14/22 17:11	IMZ	TAL BUF
Total/NA	Analysis	310.2		2	629307	06/08/22 16:55	STR	TAL BUF
Total/NA	Analysis	310.2		3	630965	06/21/22 13:18	STR	TAL BUF
Total/NA	Prep	Distill/CN			629693	06/11/22 14:15	EJL	TAL BUF
Total/NA	Analysis	335.4		1	629819	06/13/22 11:14	CLT	TAL BUF
Total/NA	Analysis	350.1		1	629188	06/08/22 08:57	CLT	TAL BUF
Total/NA	Prep	351.2			630167	06/15/22 12:38	EAG	TAL BUF
Total/NA	Analysis	351.2		1	630270	06/16/22 08:25	CLT	TAL BUF
Total/NA	Analysis	353.2		1	629156	06/07/22 19:33	CSS	TAL BUF
Total/NA	Analysis	410.4		1	630049	06/14/22 18:00	CSS	TAL BUF
Total/NA	Analysis	420.4		1	629847	06/13/22 09:26	CLT	TAL BUF
Total/NA	Analysis	7196A		1	629118	06/07/22 11:00	EAG	TAL BUF
Total/NA	Analysis	9038		1	629495	06/09/22 13:50	STR	TAL BUF
Total/NA	Analysis	SM 2120B		1	629139	06/07/22 15:30	EJL	TAL BUF
Total/NA	Analysis	SM 2540C		1	629377	06/09/22 09:45	SAK	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	631684	06/26/22 14:50	IMZ	TAL BUF
Total/NA	Analysis	SM 5210B		1	629154	06/07/22 18:52	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	629996	06/14/22 02:15	KER	TAL BUF

Client Sample ID: CD-1RA

Date Collected: 06/06/22 12:10
Date Received: 06/07/22 10:00

Lab Sample ID: 480-198720-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	629695	06/12/22 02:32	CRL	TAL BUF
Dissolved	Filtration	FILTRATION			629787	06/13/22 10:31	NBS	TAL BUF
Dissolved	Prep	3005A			629816	06/14/22 09:55	NBS	TAL BUF
Dissolved	Analysis	6010C		1	630310	06/15/22 13:03	LMH	TAL BUF

Client Sample ID: CD-1RA
Date Collected: 06/06/22 12:10
Date Received: 06/07/22 10:00

Lab Sample ID: 480-198720-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			629262	06/09/22 13:09	VAK	TAL BUF
Total/NA	Analysis	6010C		1	629561	06/10/22 02:42	LMH	TAL BUF
Total/NA	Prep	3005A			629262	06/09/22 13:09	VAK	TAL BUF
Total/NA	Analysis	6010C		1	629768	06/10/22 15:07	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			629787	06/13/22 10:31	NBS	TAL BUF
Dissolved	Prep	7470A			629926	06/14/22 10:39	NBS	TAL BUF
Dissolved	Analysis	7470A		1	630021	06/14/22 13:55	NVK	TAL BUF
Total/NA	Prep	7470A			629607	06/10/22 12:25	VAK	TAL BUF
Total/NA	Analysis	7470A		1	629668	06/10/22 16:43	NVK	TAL BUF
Total/NA	Analysis	SM 2340B		1	629653	06/10/22 15:08	JJP	TAL BUF
Total/NA	Analysis	300.0		1	629883	06/14/22 17:25	IMZ	TAL BUF
Total/NA	Analysis	310.2		3	629307	06/08/22 16:37	STR	TAL BUF
Total/NA	Prep	Distill/CN			629693	06/11/22 14:15	EJL	TAL BUF
Total/NA	Analysis	335.4		1	629819	06/13/22 11:15	CLT	TAL BUF
Total/NA	Analysis	350.1		1	629188	06/08/22 08:58	CLT	TAL BUF
Total/NA	Prep	351.2			630167	06/15/22 12:38	EAG	TAL BUF
Total/NA	Analysis	351.2		1	630270	06/16/22 08:25	CLT	TAL BUF
Total/NA	Analysis	353.2		1	629156	06/07/22 19:35	CSS	TAL BUF
Total/NA	Analysis	410.4		1	630049	06/14/22 18:00	CSS	TAL BUF
Total/NA	Analysis	420.4		1	629847	06/13/22 09:35	CLT	TAL BUF
Total/NA	Analysis	7196A		1	629118	06/07/22 11:00	EAG	TAL BUF
Total/NA	Analysis	9038		1	629495	06/09/22 13:50	STR	TAL BUF
Total/NA	Analysis	SM 2120B		1	629139	06/07/22 15:30	EJL	TAL BUF
Total/NA	Analysis	SM 2540C		1	629377	06/09/22 09:45	SAK	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	629332	06/08/22 23:10	RDA	TAL BUF
Total/NA	Analysis	SM 5210B		1	629154	06/07/22 18:52	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	629996	06/14/22 02:32	KER	TAL BUF

Client Sample ID: MW-1B
Date Collected: 06/06/22 14:40
Date Received: 06/07/22 10:00

Lab Sample ID: 480-198720-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	629695	06/12/22 02:54	CRL	TAL BUF
Total/NA	Prep	3005A			629262	06/09/22 13:09	VAK	TAL BUF
Total/NA	Analysis	6010C		1	629561	06/10/22 02:46	LMH	TAL BUF
Total/NA	Prep	3005A			629262	06/09/22 13:09	VAK	TAL BUF
Total/NA	Analysis	6010C		1	629768	06/10/22 15:11	LMH	TAL BUF
Total/NA	Prep	7470A			629607	06/10/22 12:25	VAK	TAL BUF
Total/NA	Analysis	7470A		1	629668	06/10/22 16:44	NVK	TAL BUF
Total/NA	Analysis	SM 2340B		1	629653	06/10/22 15:08	JJP	TAL BUF
Total/NA	Analysis	300.0		1	629883	06/14/22 17:39	IMZ	TAL BUF
Total/NA	Analysis	310.2		3	629307	06/08/22 16:37	STR	TAL BUF

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee LF Baseline Q2 2022

Job ID: 480-198720-1
SDG: 198720

Client Sample ID: MW-1B

Date Collected: 06/06/22 14:40
Date Received: 06/07/22 10:00

Lab Sample ID: 480-198720-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/CN			629693	06/11/22 14:15	EJL	TAL BUF
Total/NA	Analysis	335.4		1	629819	06/13/22 11:20	CLT	TAL BUF
Total/NA	Analysis	350.1		1	629188	06/08/22 08:59	CLT	TAL BUF
Total/NA	Prep	351.2			629708	06/12/22 12:55	EAG	TAL BUF
Total/NA	Analysis	351.2		1	629788	06/13/22 08:15	CLT	TAL BUF
Total/NA	Analysis	353.2		1	629156	06/07/22 19:36	CSS	TAL BUF
Total/NA	Analysis	410.4		1	630049	06/14/22 18:00	CSS	TAL BUF
Total/NA	Analysis	420.4		1	629847	06/13/22 09:39	CLT	TAL BUF
Total/NA	Analysis	7196A		1	629118	06/07/22 11:00	EAG	TAL BUF
Total/NA	Analysis	9038		1	629495	06/09/22 13:51	STR	TAL BUF
Total/NA	Analysis	SM 2120B		1	629139	06/07/22 15:30	EJL	TAL BUF
Total/NA	Analysis	SM 2540C		1	629374	06/09/22 09:41	SAK	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	629332	06/08/22 23:22	RDA	TAL BUF
Total/NA	Analysis	SM 5210B		1	629154	06/07/22 18:52	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	629996	06/14/22 02:46	KER	TAL BUF

Client Sample ID: DUP CD-1RA

Date Collected: 06/06/22 12:10
Date Received: 06/07/22 10:00

Lab Sample ID: 480-198720-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	629695	06/12/22 03:16	CRL	TAL BUF
Dissolved	Filtration	FILTRATION			629787	06/13/22 10:31	NBS	TAL BUF
Dissolved	Prep	3005A			629816	06/14/22 09:55	NBS	TAL BUF
Dissolved	Analysis	6010C		1	630310	06/15/22 13:22	LMH	TAL BUF
Total/NA	Prep	3005A			629262	06/09/22 13:09	VAK	TAL BUF
Total/NA	Analysis	6010C		1	629561	06/10/22 02:50	LMH	TAL BUF
Total/NA	Prep	3005A			629262	06/09/22 13:09	VAK	TAL BUF
Total/NA	Analysis	6010C		1	629768	06/10/22 15:14	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			629787	06/13/22 10:31	NBS	TAL BUF
Dissolved	Prep	7470A			629926	06/14/22 10:39	NBS	TAL BUF
Dissolved	Analysis	7470A		1	630021	06/14/22 13:56	NVK	TAL BUF
Total/NA	Prep	7470A			629607	06/10/22 12:25	VAK	TAL BUF
Total/NA	Analysis	7470A		1	629668	06/10/22 16:46	NVK	TAL BUF
Total/NA	Analysis	SM 2340B		1	629653	06/10/22 15:08	JJP	TAL BUF
Total/NA	Analysis	300.0		1	629883	06/14/22 17:53	IMZ	TAL BUF
Total/NA	Analysis	310.2		2	629307	06/08/22 16:46	STR	TAL BUF
Total/NA	Prep	Distill/CN			630206	06/15/22 15:30	EJL	TAL BUF
Total/NA	Analysis	335.4		1	630238	06/15/22 18:38	CLT	TAL BUF
Total/NA	Analysis	350.1		1	629188	06/08/22 09:02	CLT	TAL BUF
Total/NA	Prep	351.2			630167	06/15/22 12:38	EAG	TAL BUF
Total/NA	Analysis	351.2		1	630270	06/16/22 08:25	CLT	TAL BUF
Total/NA	Analysis	353.2		1	629156	06/07/22 19:38	CSS	TAL BUF

Client Sample ID: DUP CD-1RA
Date Collected: 06/06/22 12:10
Date Received: 06/07/22 10:00

Lab Sample ID: 480-198720-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	410.4		1	630049	06/14/22 18:00	CSS	TAL BUF
Total/NA	Analysis	420.4		1	629847	06/13/22 09:43	CLT	TAL BUF
Total/NA	Analysis	7196A		1	629118	06/07/22 11:00	EAG	TAL BUF
Total/NA	Analysis	9038		1	629495	06/09/22 13:51	STR	TAL BUF
Total/NA	Analysis	SM 2120B		1	629139	06/07/22 15:30	EJL	TAL BUF
Total/NA	Analysis	SM 2540C		1	629374	06/09/22 09:41	SAK	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	629332	06/08/22 23:22	RDA	TAL BUF
Total/NA	Analysis	SM 5210B		1	629154	06/07/22 18:52	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	629996	06/14/22 03:03	KER	TAL BUF

Client Sample ID: TRIP BLANK 1
Date Collected: 06/06/22 00:00
Date Received: 06/07/22 10:00

Lab Sample ID: 480-198720-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	629695	06/12/22 03:38	CRL	TAL BUF

Client Sample ID: CD-1
Date Collected: 06/06/22 13:20
Date Received: 06/07/22 10:00

Lab Sample ID: 480-198722-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			629117	06/07/22 15:03	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	629253	06/09/22 00:47	PJQ	TAL BUF
Total/NA	Prep	3535			180717	06/13/22 08:55	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	180744	06/13/22 18:55	ND	TAL BUR

Client Sample ID: CD-1RA
Date Collected: 06/06/22 12:40
Date Received: 06/07/22 10:00

Lab Sample ID: 480-198722-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			629117	06/07/22 15:03	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	629253	06/09/22 01:09	PJQ	TAL BUF
Total/NA	Prep	3535			180717	06/13/22 08:55	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	180744	06/13/22 19:03	ND	TAL BUR

Client Sample ID: MW-1B
Date Collected: 06/06/22 14:40
Date Received: 06/07/22 10:00

Lab Sample ID: 480-198722-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			629117	06/07/22 15:03	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	629253	06/09/22 01:31	PJQ	TAL BUF

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee LF Baseline Q2 2022

Job ID: 480-198720-1
SDG: 198720

Client Sample ID: MW-1B
Date Collected: 06/06/22 14:40
Date Received: 06/07/22 10:00

Lab Sample ID: 480-198722-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			180717	06/13/22 08:55	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	180744	06/13/22 19:11	ND	TAL BUR

Client Sample ID: MW-1A
Date Collected: 06/08/22 10:15
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	630178	06/15/22 22:08	CR	TAL BUF
Total/NA	Prep	3005A			629664	06/13/22 08:21	VAK	TAL BUF
Total/NA	Analysis	6010C		1	629955	06/13/22 19:26	LMH	TAL BUF
Total/NA	Prep	7470A			629751	06/13/22 10:37	NBS	TAL BUF
Total/NA	Analysis	7470A		1	629882	06/13/22 14:32	NVK	TAL BUF
Total/NA	Analysis	SM 2340B		1	630342	06/16/22 14:01	JJP	TAL BUF
Total/NA	Analysis	300.0		1	630215	06/15/22 21:28	IMZ	TAL BUF
Total/NA	Analysis	310.2		3	630965	06/21/22 12:37	STR	TAL BUF
Total/NA	Prep	Distill/CN			630398	06/16/22 21:15	EJL	TAL BUF
Total/NA	Analysis	335.4		1	630471	06/17/22 09:08	CLT	TAL BUF
Total/NA	Analysis	350.1		1	629604	06/10/22 08:58	CLT	TAL BUF
Total/NA	Prep	351.2			629826	06/13/22 12:10	EAG	TAL BUF
Total/NA	Analysis	351.2		1	629963	06/14/22 08:59	CLT	TAL BUF
Total/NA	Analysis	353.2		1	629525	06/09/22 20:10	CSS	TAL BUF
Total/NA	Analysis	410.4		1	630049	06/14/22 18:00	CSS	TAL BUF
Total/NA	Analysis	420.4		1	629847	06/13/22 11:29	CLT	TAL BUF
Total/NA	Analysis	7196A		1	629426	06/09/22 10:15	EAG	TAL BUF
Total/NA	Analysis	9038		1	629495	06/09/22 14:56	STR	TAL BUF
Total/NA	Analysis	SM 2120B		1	629501	06/09/22 15:30	EJL	TAL BUF
Total/NA	Analysis	SM 2540C		1	629552	06/10/22 09:23	SAK	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	631684	06/26/22 14:10	IMZ	TAL BUF
Total/NA	Analysis	SM 5210B		1	629517	06/09/22 15:30	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	630302	06/15/22 12:32	KER	TAL BUF

Client Sample ID: MW-2A
Date Collected: 06/08/22 10:45
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	630178	06/15/22 22:31	CR	TAL BUF
Dissolved	Filtration	FILTRATION			629787	06/13/22 10:31	NBS	TAL BUF
Dissolved	Prep	3005A			629816	06/14/22 09:55	NBS	TAL BUF
Dissolved	Analysis	6010C		1	630310	06/15/22 13:38	LMH	TAL BUF
Total/NA	Prep	3005A			629664	06/13/22 08:21	VAK	TAL BUF
Total/NA	Analysis	6010C		1	629955	06/13/22 19:30	LMH	TAL BUF

Client Sample ID: MW-2A

Date Collected: 06/08/22 10:45
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			629787	06/13/22 10:31	NBS	TAL BUF
Dissolved	Prep	7470A			629926	06/14/22 10:39	NBS	TAL BUF
Dissolved	Analysis	7470A		1	630021	06/14/22 14:02	NVK	TAL BUF
Total/NA	Prep	7470A			629751	06/13/22 10:37	NBS	TAL BUF
Total/NA	Analysis	7470A		1	629882	06/13/22 14:38	NVK	TAL BUF
Total/NA	Analysis	SM 2340B		1	630342	06/16/22 14:01	JJP	TAL BUF
Total/NA	Analysis	300.0		2	630215	06/15/22 21:42	IMZ	TAL BUF
Total/NA	Analysis	310.2		5	630965	06/21/22 12:37	STR	TAL BUF
Total/NA	Prep	Distill/CN			630398	06/16/22 21:15	EJL	TAL BUF
Total/NA	Analysis	335.4		1	630471	06/17/22 09:09	CLT	TAL BUF
Total/NA	Analysis	350.1		5	629604	06/10/22 09:00	CLT	TAL BUF
Total/NA	Prep	351.2			629826	06/13/22 12:10	EAG	TAL BUF
Total/NA	Analysis	351.2		2	629963	06/14/22 10:24	CLT	TAL BUF
Total/NA	Analysis	353.2		1	629525	06/09/22 20:11	CSS	TAL BUF
Total/NA	Analysis	410.4		1	630049	06/14/22 18:00	CSS	TAL BUF
Total/NA	Analysis	420.4		1	629847	06/13/22 11:33	CLT	TAL BUF
Total/NA	Analysis	7196A		1	629426	06/09/22 10:15	EAG	TAL BUF
Total/NA	Analysis	9038		1	629495	06/09/22 14:57	STR	TAL BUF
Total/NA	Analysis	SM 2120B		1	629501	06/09/22 15:30	EJL	TAL BUF
Total/NA	Analysis	SM 2540C		1	629552	06/10/22 09:23	SAK	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	631684	06/26/22 14:49	IMZ	TAL BUF
Total/NA	Analysis	SM 5210B		1	629517	06/09/22 15:30	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	631325	06/22/22 23:36	KER	TAL BUF

Client Sample ID: MW-2B

Date Collected: 06/08/22 11:15
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	630178	06/15/22 22:55	CR	TAL BUF
Total/NA	Prep	3005A			629664	06/13/22 08:21	VAK	TAL BUF
Total/NA	Analysis	6010C		1	629955	06/13/22 19:34	LMH	TAL BUF
Total/NA	Prep	7470A			629751	06/13/22 10:37	NBS	TAL BUF
Total/NA	Analysis	7470A		1	629882	06/13/22 14:42	NVK	TAL BUF
Total/NA	Analysis	SM 2340B		1	630342	06/16/22 14:01	JJP	TAL BUF
Total/NA	Analysis	300.0		2	630215	06/15/22 21:56	IMZ	TAL BUF
Total/NA	Analysis	310.2		10	630965	06/21/22 12:38	STR	TAL BUF
Total/NA	Prep	Distill/CN			630398	06/16/22 21:15	EJL	TAL BUF
Total/NA	Analysis	335.4		1	630471	06/17/22 09:10	CLT	TAL BUF
Total/NA	Analysis	350.1		1	629604	06/10/22 10:04	CLT	TAL BUF
Total/NA	Prep	351.2			629826	06/13/22 12:10	EAG	TAL BUF
Total/NA	Analysis	351.2		1	629963	06/14/22 08:59	CLT	TAL BUF

Client Sample ID: MW-2B

Date Collected: 06/08/22 11:15
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	629525	06/09/22 20:12	CSS	TAL BUF
Total/NA	Analysis	410.4		1	630049	06/14/22 18:00	CSS	TAL BUF
Total/NA	Analysis	420.4		1	629847	06/13/22 11:36	CLT	TAL BUF
Total/NA	Analysis	7196A		1	629426	06/09/22 10:15	EAG	TAL BUF
Total/NA	Analysis	9038		1	629495	06/09/22 14:57	STR	TAL BUF
Total/NA	Analysis	SM 2120B		1	629501	06/09/22 15:30	EJL	TAL BUF
Total/NA	Analysis	SM 2540C		1	629552	06/10/22 09:23	SAK	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	631684	06/26/22 14:11	IMZ	TAL BUF
Total/NA	Analysis	SM 5210B		1	629517	06/09/22 15:30	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	631325	06/22/22 23:53	KER	TAL BUF

Client Sample ID: MW-3A

Date Collected: 06/08/22 08:30
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	630178	06/15/22 23:18	CR	TAL BUF
Total/NA	Prep	3005A			629664	06/13/22 08:21	VAK	TAL BUF
Total/NA	Analysis	6010C		1	629955	06/13/22 20:05	LMH	TAL BUF
Total/NA	Prep	7470A			629751	06/13/22 10:37	NBS	TAL BUF
Total/NA	Analysis	7470A		1	629882	06/13/22 14:43	NVK	TAL BUF
Total/NA	Analysis	SM 2340B		1	630342	06/16/22 14:01	JJP	TAL BUF
Total/NA	Analysis	300.0		1	630215	06/15/22 22:11	IMZ	TAL BUF
Total/NA	Analysis	310.2		2	630965	06/21/22 13:20	STR	TAL BUF
Total/NA	Prep	Distill/CN			630398	06/16/22 21:15	EJL	TAL BUF
Total/NA	Analysis	335.4		1	630471	06/17/22 09:12	CLT	TAL BUF
Total/NA	Analysis	350.1		1	629604	06/10/22 09:02	CLT	TAL BUF
Total/NA	Prep	351.2			629826	06/13/22 12:10	EAG	TAL BUF
Total/NA	Analysis	351.2		1	629963	06/14/22 08:59	CLT	TAL BUF
Total/NA	Analysis	353.2		1	629525	06/09/22 20:07	CSS	TAL BUF
Total/NA	Analysis	410.4		1	630049	06/14/22 18:00	CSS	TAL BUF
Total/NA	Analysis	420.4		1	629847	06/13/22 11:40	CLT	TAL BUF
Total/NA	Analysis	7196A		1	629426	06/09/22 10:15	EAG	TAL BUF
Total/NA	Analysis	9038		1	629495	06/09/22 14:57	STR	TAL BUF
Total/NA	Analysis	SM 2120B		1	629501	06/09/22 15:30	EJL	TAL BUF
Total/NA	Analysis	SM 2540C		1	629552	06/10/22 09:23	SAK	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	631684	06/26/22 14:50	IMZ	TAL BUF
Total/NA	Analysis	SM 5210B		1	629517	06/09/22 15:30	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	631325	06/23/22 02:17	KER	TAL BUF

Client Sample ID: MW-3B

Date Collected: 06/08/22 08:45
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	630178	06/15/22 23:42	CR	TAL BUF
Total/NA	Prep	3005A			629664	06/13/22 08:21	VAK	TAL BUF
Total/NA	Analysis	6010C		1	629955	06/13/22 20:09	LMH	TAL BUF
Total/NA	Prep	7470A			629751	06/13/22 10:37	NBS	TAL BUF
Total/NA	Analysis	7470A		1	629882	06/13/22 14:44	NVK	TAL BUF
Total/NA	Analysis	SM 2340B		1	630342	06/16/22 14:01	JJP	TAL BUF
Total/NA	Analysis	300.0		1	630215	06/15/22 22:25	IMZ	TAL BUF
Total/NA	Analysis	310.2		3	630965	06/21/22 12:39	STR	TAL BUF
Total/NA	Prep	Distill/CN			630398	06/16/22 21:15	EJL	TAL BUF
Total/NA	Analysis	335.4		1	630471	06/17/22 09:13	CLT	TAL BUF
Total/NA	Analysis	350.1		1	629604	06/10/22 09:06	CLT	TAL BUF
Total/NA	Prep	351.2			629826	06/13/22 12:10	EAG	TAL BUF
Total/NA	Analysis	351.2		1	629963	06/14/22 08:59	CLT	TAL BUF
Total/NA	Analysis	353.2		1	629525	06/09/22 20:14	CSS	TAL BUF
Total/NA	Analysis	410.4		1	630049	06/14/22 18:00	CSS	TAL BUF
Total/NA	Analysis	420.4		1	629847	06/13/22 12:06	CLT	TAL BUF
Total/NA	Analysis	7196A		1	629426	06/09/22 10:15	EAG	TAL BUF
Total/NA	Analysis	9038		1	629495	06/09/22 14:57	STR	TAL BUF
Total/NA	Analysis	SM 2120B		1	629501	06/09/22 15:30	EJL	TAL BUF
Total/NA	Analysis	SM 2540C		1	629552	06/10/22 09:23	SAK	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	631684	06/26/22 14:49	IMZ	TAL BUF
Total/NA	Analysis	SM 5210B		1	629517	06/09/22 15:30	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	631325	06/23/22 02:33	KER	TAL BUF

Client Sample ID: MW-4A

Date Collected: 06/08/22 09:15
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	630178	06/16/22 00:04	CR	TAL BUF
Total/NA	Prep	3005A			629664	06/13/22 08:21	VAK	TAL BUF
Total/NA	Analysis	6010C		1	629955	06/13/22 20:13	LMH	TAL BUF
Total/NA	Prep	7470A			629751	06/13/22 10:37	NBS	TAL BUF
Total/NA	Analysis	7470A		1	629882	06/13/22 14:46	NVK	TAL BUF
Total/NA	Analysis	SM 2340B		1	630342	06/16/22 14:01	JJP	TAL BUF
Total/NA	Analysis	300.0		2	630215	06/15/22 22:39	IMZ	TAL BUF
Total/NA	Analysis	310.2		10	630965	06/21/22 12:40	STR	TAL BUF
Total/NA	Prep	Distill/CN			630398	06/16/22 21:15	EJL	TAL BUF
Total/NA	Analysis	335.4		1	630471	06/17/22 09:15	CLT	TAL BUF
Total/NA	Analysis	350.1		1	629604	06/10/22 09:09	CLT	TAL BUF
Total/NA	Prep	351.2			629826	06/13/22 12:10	EAG	TAL BUF
Total/NA	Analysis	351.2		1	629963	06/14/22 08:59	CLT	TAL BUF

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee LF Baseline Q2 2022

Job ID: 480-198720-1
SDG: 198720

Client Sample ID: MW-4A

Date Collected: 06/08/22 09:15
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	629525	06/09/22 20:04	CSS	TAL BUF
Total/NA	Analysis	410.4		1	630049	06/14/22 18:00	CSS	TAL BUF
Total/NA	Analysis	420.4		1	629847	06/13/22 12:13	CLT	TAL BUF
Total/NA	Analysis	7196A		1	629426	06/09/22 10:15	EAG	TAL BUF
Total/NA	Analysis	9038		1	629495	06/09/22 14:58	STR	TAL BUF
Total/NA	Analysis	SM 2120B		1	629501	06/09/22 15:30	EJL	TAL BUF
Total/NA	Analysis	SM 2540C		1	629552	06/10/22 09:23	SAK	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	631684	06/26/22 14:49	IMZ	TAL BUF
Total/NA	Analysis	SM 5210B		1	629517	06/09/22 15:30	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	631325	06/23/22 02:49	KER	TAL BUF

Client Sample ID: MW-5A

Date Collected: 06/08/22 09:30
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	630178	06/16/22 00:27	CR	TAL BUF
Total/NA	Prep	3005A			629664	06/13/22 08:21	VAK	TAL BUF
Total/NA	Analysis	6010C		1	629955	06/13/22 20:17	LMH	TAL BUF
Total/NA	Prep	7470A			629751	06/13/22 10:37	NBS	TAL BUF
Total/NA	Analysis	7470A		1	629882	06/13/22 14:47	NVK	TAL BUF
Total/NA	Analysis	SM 2340B		1	630342	06/16/22 14:01	JJP	TAL BUF
Total/NA	Analysis	300.0		1	630550	06/17/22 18:54	IMZ	TAL BUF
Total/NA	Analysis	310.2		3	630965	06/21/22 12:40	STR	TAL BUF
Total/NA	Prep	Distill/CN			630398	06/16/22 21:15	EJL	TAL BUF
Total/NA	Analysis	335.4		1	630471	06/17/22 09:16	CLT	TAL BUF
Total/NA	Analysis	350.1		1	629604	06/10/22 09:10	CLT	TAL BUF
Total/NA	Prep	351.2			629826	06/13/22 12:10	EAG	TAL BUF
Total/NA	Analysis	351.2		1	629963	06/14/22 09:08	CLT	TAL BUF
Total/NA	Analysis	353.2		1	629525	06/09/22 20:25	CSS	TAL BUF
Total/NA	Analysis	410.4		1	630049	06/14/22 18:00	CSS	TAL BUF
Total/NA	Analysis	420.4		1	629847	06/13/22 12:17	CLT	TAL BUF
Total/NA	Analysis	7196A		1	629426	06/09/22 10:15	EAG	TAL BUF
Total/NA	Analysis	9038		1	629495	06/09/22 14:58	STR	TAL BUF
Total/NA	Analysis	SM 2120B		1	629501	06/09/22 15:30	EJL	TAL BUF
Total/NA	Analysis	SM 2540C		1	629552	06/10/22 09:23	SAK	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	631684	06/26/22 14:49	IMZ	TAL BUF
Total/NA	Analysis	SM 5210B		1	629517	06/09/22 15:30	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	630302	06/15/22 15:12	KER	TAL BUF

Client Sample ID: MW-6A

Date Collected: 06/08/22 11:55
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	630178	06/16/22 00:50	CR	TAL BUF
Dissolved	Filtration	FILTRATION			629787	06/13/22 10:31	NBS	TAL BUF
Dissolved	Prep	3005A			629816	06/14/22 09:55	NBS	TAL BUF
Dissolved	Analysis	6010C		1	630310	06/15/22 13:42	LMH	TAL BUF
Total/NA	Prep	3005A			629664	06/13/22 08:21	VAK	TAL BUF
Total/NA	Analysis	6010C		1	629955	06/13/22 20:21	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			629787	06/13/22 10:31	NBS	TAL BUF
Dissolved	Prep	7470A			629926	06/14/22 10:39	NBS	TAL BUF
Dissolved	Analysis	7470A		1	630021	06/14/22 14:03	NVK	TAL BUF
Total/NA	Prep	7470A			629751	06/13/22 10:37	NBS	TAL BUF
Total/NA	Analysis	7470A		1	629882	06/13/22 14:48	NVK	TAL BUF
Total/NA	Analysis	SM 2340B		1	630342	06/16/22 14:01	JJP	TAL BUF
Total/NA	Analysis	300.0		1	630550	06/17/22 19:12	IMZ	TAL BUF
Total/NA	Analysis	310.2		5	630965	06/21/22 12:40	STR	TAL BUF
Total/NA	Prep	Distill/CN			630398	06/16/22 21:15	EJL	TAL BUF
Total/NA	Analysis	335.4		1	630471	06/17/22 09:18	CLT	TAL BUF
Total/NA	Analysis	350.1		1	629604	06/10/22 09:11	CLT	TAL BUF
Total/NA	Prep	351.2			629826	06/13/22 12:10	EAG	TAL BUF
Total/NA	Analysis	351.2		1	629963	06/14/22 09:08	CLT	TAL BUF
Total/NA	Analysis	353.2		1	629525	06/09/22 20:23	CSS	TAL BUF
Total/NA	Analysis	410.4		1	630049	06/14/22 18:00	CSS	TAL BUF
Total/NA	Analysis	420.4		1	629847	06/13/22 12:20	CLT	TAL BUF
Total/NA	Analysis	7196A		1	629426	06/09/22 10:15	EAG	TAL BUF
Total/NA	Analysis	9038		1	629495	06/09/22 14:58	STR	TAL BUF
Total/NA	Analysis	SM 2120B		1	629501	06/09/22 15:30	EJL	TAL BUF
Total/NA	Analysis	SM 2540C		1	629552	06/10/22 09:23	SAK	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	631684	06/26/22 14:49	IMZ	TAL BUF
Total/NA	Analysis	SM 5210B		1	629517	06/09/22 15:30	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	630732	06/18/22 22:55	KER	TAL BUF

Client Sample ID: MW-6B

Date Collected: 06/08/22 12:15
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	630178	06/16/22 01:13	CR	TAL BUF
Total/NA	Prep	3005A			629664	06/13/22 08:21	VAK	TAL BUF
Total/NA	Analysis	6010C		1	630098	06/14/22 16:57	LMH	TAL BUF
Total/NA	Prep	3005A			629664	06/13/22 08:21	VAK	TAL BUF
Total/NA	Analysis	6010C		1	629955	06/13/22 20:36	LMH	TAL BUF
Total/NA	Prep	7470A			629751	06/13/22 10:37	NBS	TAL BUF
Total/NA	Analysis	7470A		1	629882	06/13/22 14:49	NVK	TAL BUF
Total/NA	Analysis	SM 2340B		1	630342	06/16/22 14:01	JJP	TAL BUF

Client Sample ID: MW-6B

Date Collected: 06/08/22 12:15
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	630550	06/17/22 19:31	IMZ	TAL BUF
Total/NA	Analysis	310.2		3	630965	06/21/22 12:41	STR	TAL BUF
Total/NA	Prep	Distill/CN			630398	06/16/22 21:15	EJL	TAL BUF
Total/NA	Analysis	335.4		1	630471	06/17/22 09:19	CLT	TAL BUF
Total/NA	Analysis	350.1		1	629604	06/10/22 09:12	CLT	TAL BUF
Total/NA	Prep	351.2			629826	06/13/22 12:10	EAG	TAL BUF
Total/NA	Analysis	351.2		1	629963	06/14/22 09:08	CLT	TAL BUF
Total/NA	Analysis	353.2		1	629525	06/09/22 20:18	CSS	TAL BUF
Total/NA	Analysis	410.4		1	630049	06/14/22 18:00	CSS	TAL BUF
Total/NA	Analysis	420.4		1	629847	06/13/22 12:24	CLT	TAL BUF
Total/NA	Analysis	7196A		1	629426	06/09/22 10:15	EAG	TAL BUF
Total/NA	Analysis	9038		1	629495	06/09/22 14:59	STR	TAL BUF
Total/NA	Analysis	SM 2120B		1	629501	06/09/22 15:30	EJL	TAL BUF
Total/NA	Analysis	SM 2540C		1	629750	06/13/22 09:26	SAK	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	631684	06/26/22 14:49	IMZ	TAL BUF
Total/NA	Analysis	SM 5210B		1	629517	06/09/22 15:30	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	631325	06/23/22 03:05	KER	TAL BUF

Client Sample ID: MW-7A

Date Collected: 06/08/22 13:15
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	630178	06/16/22 01:37	CR	TAL BUF
Dissolved	Filtration	FILTRATION			629787	06/13/22 10:31	NBS	TAL BUF
Dissolved	Prep	3005A			629816	06/14/22 09:55	NBS	TAL BUF
Dissolved	Analysis	6010C		1	630310	06/15/22 13:45	LMH	TAL BUF
Total/NA	Prep	3005A			629664	06/13/22 08:21	VAK	TAL BUF
Total/NA	Analysis	6010C		1	630098	06/14/22 17:01	LMH	TAL BUF
Total/NA	Prep	3005A			629664	06/13/22 08:21	VAK	TAL BUF
Total/NA	Analysis	6010C		1	629955	06/13/22 20:40	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			629787	06/13/22 10:31	NBS	TAL BUF
Dissolved	Prep	7470A			629926	06/14/22 10:39	NBS	TAL BUF
Dissolved	Analysis	7470A		1	630021	06/14/22 14:07	NVK	TAL BUF
Total/NA	Prep	7470A			629751	06/13/22 10:37	NBS	TAL BUF
Total/NA	Analysis	7470A		1	629882	06/13/22 14:51	NVK	TAL BUF
Total/NA	Analysis	SM 2340B		1	630342	06/16/22 14:01	JJP	TAL BUF
Total/NA	Analysis	300.0		2	630550	06/17/22 19:49	IMZ	TAL BUF
Total/NA	Analysis	310.2		5	630965	06/21/22 12:42	STR	TAL BUF
Total/NA	Prep	Distill/CN			630516	06/17/22 10:30	EJL	TAL BUF
Total/NA	Analysis	335.4		1	630539	06/17/22 13:10	CLT	TAL BUF
Total/NA	Analysis	350.1		1	629604	06/10/22 09:13	CLT	TAL BUF

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee LF Baseline Q2 2022

Job ID: 480-198720-1
SDG: 198720

Client Sample ID: MW-7A
Date Collected: 06/08/22 13:15
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	351.2			629826	06/13/22 12:10	EAG	TAL BUF
Total/NA	Analysis	351.2		1	629963	06/14/22 09:08	CLT	TAL BUF
Total/NA	Analysis	353.2		1	629525	06/09/22 20:21	CSS	TAL BUF
Total/NA	Analysis	410.4		1	630049	06/14/22 18:00	CSS	TAL BUF
Total/NA	Analysis	420.4		1	629847	06/13/22 12:28	CLT	TAL BUF
Total/NA	Analysis	7196A		1	629426	06/09/22 10:15	EAG	TAL BUF
Total/NA	Analysis	9038		1	629495	06/09/22 14:59	STR	TAL BUF
Total/NA	Analysis	SM 2120B		1	629501	06/09/22 15:30	EJL	TAL BUF
Total/NA	Analysis	SM 2540C		1	629750	06/13/22 09:26	SAK	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	631684	06/26/22 14:49	IMZ	TAL BUF
Total/NA	Analysis	SM 5210B		1	629517	06/09/22 15:30	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	630732	06/18/22 23:54	KER	TAL BUF

Client Sample ID: TRIP BLANK 1
Date Collected: 06/08/22 08:30
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198813-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	630178	06/16/22 02:00	CR	TAL BUF

Client Sample ID: MW-1A
Date Collected: 06/08/22 10:30
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198818-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			629476	06/09/22 14:44	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	629619	06/10/22 18:04	PJQ	TAL BUF
Total/NA	Prep	3535			180717	06/13/22 08:55	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	180744	06/13/22 19:27	ND	TAL BUR

Client Sample ID: MW-2A
Date Collected: 06/08/22 10:45
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198818-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			629476	06/09/22 14:44	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	629619	06/10/22 18:27	PJQ	TAL BUF
Total/NA	Prep	3535			180717	06/13/22 08:55	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	180744	06/13/22 19:36	ND	TAL BUR

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee LF Baseline Q2 2022

Job ID: 480-198720-1
SDG: 198720

Client Sample ID: MW-2B
Date Collected: 06/08/22 11:15
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198818-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			629476	06/09/22 14:44	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		10	629619	06/10/22 18:49	PJQ	TAL BUF
Total/NA	Prep	3535			180717	06/13/22 08:55	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	180744	06/13/22 19:44	ND	TAL BUR

Client Sample ID: MW-6A
Date Collected: 06/08/22 11:55
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198818-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			629476	06/09/22 14:44	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	629619	06/10/22 19:10	PJQ	TAL BUF
Total/NA	Prep	3535			180717	06/13/22 08:55	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	180744	06/13/22 19:52	ND	TAL BUR

Client Sample ID: MW-6B
Date Collected: 06/08/22 12:15
Date Received: 06/09/22 09:00

Lab Sample ID: 480-198818-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			629476	06/09/22 14:44	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	629619	06/10/22 19:33	PJQ	TAL BUF
Total/NA	Prep	3535			180717	06/13/22 08:55	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	180744	06/13/22 20:00	ND	TAL BUR

Laboratory References:

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

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

Accreditation/Certification Summary

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-198720-1
Project/Site: Towslee LF Baseline Q2 2022
SDG: 198720

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

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

Analysis Method	Prep Method	Matrix	Analyte
9038		Water	Sulfate
SM 5310C		Water	TOC Result 1
SM 5310C		Water	TOC Result 2

Laboratory: Eurofins Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-17-23
Florida	NELAP	E87467	06-30-22
Minnesota	NELAP	050-999-436	12-31-22
New Hampshire	NELAP	2006	12-18-22
New Jersey	NELAP	VT972	06-30-22
New York	NELAP	10391	04-01-23
Pennsylvania	NELAP	68-00489	04-30-23
Rhode Island	State	LAO00298	12-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-23
Virginia	NELAP	460209	12-14-22
Wisconsin	State	399133350	08-31-22

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water Level: Low

GC Column (1): ZB-624 (20) ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
CD-1	480-198720-1	102	96	102
CD-1RA	480-198720-2	102	95	102
MW-1B	480-198720-3	102	95	104
DUP CD-1RA	480-198720-4	103	97	104
TRIP BLANK 1	480-198720-5	103	94	105
MW-1A	480-198813-1	82	91	93
MW-2A	480-198813-2	85	92	105
MW-2B	480-198813-3	85	93	101
MW-3A	480-198813-4	91	98	103
MW-3B	480-198813-5	86	92	105
MW-4A	480-198813-6	94	91	102
MW-5A	480-198813-7	92	91	112
MW-6A	480-198813-8	83	89	104
MW-6B	480-198813-9	83	91	107
MW-7A	480-198813-10	83	91	106
TRIP BLANK 1	480-198813-11	87	91	107
	MB 480-629695/9	102	98	102
	MB 480-630178/8	90	91	101
	LCS 480-629695/6	107	98	96
	LCS 480-630178/6	92	93	102
	LCSD 480-629695/7	102	98	97

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

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water Level: Low Lab File ID: D0812.D

Lab ID: LCS 480-629695/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	25.0	25.8	103	80-120	
1,1,1-Trichloroethane	25.0	25.9	104	73-126	
1,1,2,2-Tetrachloroethane	25.0	26.4	106	76-120	
1,1,2-Trichloroethane	25.0	25.7	103	76-122	
1,1-Dichloroethane	25.0	27.3	109	77-120	
1,1-Dichloroethene	25.0	25.5	102	66-127	
1,2,3-Trichloropropane	25.0	26.7	107	68-122	
1,2-Dibromo-3-Chloropropane	25.0	27.5	110	56-134	
1,2-Dichlorobenzene	25.0	26.3	105	80-124	
1,2-Dichloroethane	25.0	24.9	100	75-120	
1,2-Dichloropropane	25.0	26.7	107	76-120	
1,4-Dichlorobenzene	25.0	25.6	103	80-120	
2-Butanone (MEK)	125	213	171	57-140	*+
2-Hexanone	125	110	88	65-127	
4-Methyl-2-pentanone (MIBK)	125	118	94	71-125	
Acetone	125	114	91	56-142	
Acrylonitrile	250	244	98	63-125	
Benzene	25.0	26.7	107	71-124	
Chlorobromomethane	25.0	26.0	104	72-130	
Bromodichloromethane	25.0	27.1	108	80-122	
Bromoform	25.0	25.9	104	61-132	
Bromomethane	25.0	24.0	96	55-144	
Carbon disulfide	25.0	26.9	108	59-134	
Carbon tetrachloride	25.0	25.6	102	72-134	
Chlorobenzene	25.0	25.6	103	80-120	
Dibromochloromethane	25.0	26.1	105	75-125	
Chloroethane	25.0	24.7	99	69-136	
Chloroform	25.0	25.1	100	73-127	
Chloromethane	25.0	22.6	90	68-124	
cis-1,2-Dichloroethene	25.0	27.1	108	74-124	
cis-1,3-Dichloropropene	25.0	29.2	117	74-124	
Dibromomethane	25.0	25.6	102	76-127	
Ethylbenzene	25.0	25.2	101	77-123	
1,2-Dibromoethane	25.0	26.3	105	77-120	
Iodomethane	25.0	26.9	108	78-123	
Methylene Chloride	25.0	25.8	103	75-124	
Styrene	25.0	26.0	104	80-120	
Tetrachloroethene	25.0	26.8	107	74-122	
Trichlorofluoromethane	25.0	25.9	104	62-150	
Trichloroethene	25.0	27.8	111	74-123	
Toluene	25.0	26.5	106	80-122	
trans-1,2-Dichloroethene	25.0	27.6	110	73-127	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water Level: Low Lab File ID: D0812.D

Lab ID: LCS 480-629695/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	25.0	27.6	110	80-120	
trans-1,4-Dichloro-2-butene	25.0	23.2	93	41-131	
Vinyl acetate	50.0	71.5	143	50-144	
Vinyl chloride	25.0	25.1	100	65-133	
m,p-Xylene	25.0	24.8	99	76-122	
o-Xylene	25.0	24.5	98	76-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water Level: Low Lab File ID: N5622.D

Lab ID: LCS 480-630178/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	25.0	22.1	88	80-120	
1,1,1-Trichloroethane	25.0	23.3	93	73-126	
1,1,2,2-Tetrachloroethane	25.0	23.0	92	76-120	
1,1,2-Trichloroethane	25.0	22.6	90	76-122	
1,1-Dichloroethane	25.0	22.9	92	77-120	
1,1-Dichloroethene	25.0	22.3	89	66-127	
1,2,3-Trichloropropane	25.0	21.7	87	68-122	
1,2-Dibromo-3-Chloropropane	25.0	21.5	86	56-134	
1,2-Dichlorobenzene	25.0	23.7	95	80-124	
1,2-Dichloroethane	25.0	23.0	92	75-120	
1,2-Dichloropropane	25.0	23.7	95	76-120	
1,4-Dichlorobenzene	25.0	23.0	92	80-120	
2-Butanone (MEK)	125	115	92	57-140	
2-Hexanone	125	116	93	65-127	
4-Methyl-2-pentanone (MIBK)	125	113	90	71-125	
Acetone	125	127	102	56-142	
Acrylonitrile	250	226	90	63-125	
Benzene	25.0	23.3	93	71-124	
Chlorobromomethane	25.0	23.3	93	72-130	
Bromodichloromethane	25.0	23.6	95	80-122	
Bromoform	25.0	22.4	90	61-132	
Bromomethane	25.0	24.6	98	55-144	
Carbon disulfide	25.0	21.4	85	59-134	
Carbon tetrachloride	25.0	23.2	93	72-134	
Chlorobenzene	25.0	22.8	91	80-120	
Dibromochloromethane	25.0	22.4	90	75-125	
Chloroethane	25.0	23.5	94	69-136	
Chloroform	25.0	23.1	92	73-127	
Chloromethane	25.0	24.0	96	68-124	
cis-1,2-Dichloroethene	25.0	23.0	92	74-124	
cis-1,3-Dichloropropene	25.0	23.8	95	74-124	
Dibromomethane	25.0	24.3	97	76-127	
Ethylbenzene	25.0	22.8	91	77-123	
1,2-Dibromoethane	25.0	23.3	93	77-120	
Iodomethane	25.0	23.8	95	78-123	
Methylene Chloride	25.0	24.2	97	75-124	
Styrene	25.0	24.1	96	80-120	
Tetrachloroethene	25.0	22.6	91	74-122	
Trichlorofluoromethane	25.0	26.0	104	62-150	
Trichloroethene	25.0	23.1	93	74-123	
Toluene	25.0	22.5	90	80-122	
trans-1,2-Dichloroethene	25.0	23.3	93	73-127	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water Level: Low Lab File ID: N5622.D

Lab ID: LCS 480-630178/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	25.0	22.7	91	80-120	
trans-1,4-Dichloro-2-butene	25.0	17.5	70	41-131	
Vinyl acetate	50.0	46.1	92	50-144	
Vinyl chloride	25.0	28.8	115	65-133	
m,p-Xylene	25.0	23.4	94	76-122	
o-Xylene	25.0	23.2	93	76-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water Level: Low Lab File ID: D0813.D

Lab ID: LCSD 480-629695/7 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	25.0	24.5	98	5	20	80-120	
1,1,1-Trichloroethane	25.0	23.9	96	8	15	73-126	
1,1,2,2-Tetrachloroethane	25.0	26.5	106	0	15	76-120	
1,1,2-Trichloroethane	25.0	25.6	102	1	15	76-122	
1,1-Dichloroethane	25.0	25.5	102	7	20	77-120	
1,1-Dichloroethene	25.0	23.6	94	8	16	66-127	
1,2,3-Trichloropropane	25.0	26.7	107	0	14	68-122	
1,2-Dibromo-3-Chloropropane	25.0	27.6	111	0	15	56-134	
1,2-Dichlorobenzene	25.0	25.4	102	3	20	80-124	
1,2-Dichloroethane	25.0	24.2	97	3	20	75-120	
1,2-Dichloropropane	25.0	25.9	104	3	20	76-120	
1,4-Dichlorobenzene	25.0	25.1	101	2	20	80-120	
2-Butanone (MEK)	125	213	170	0	20	57-140	*+
2-Hexanone	125	110	88	1	15	65-127	
4-Methyl-2-pentanone (MIBK)	125	115	92	3	35	71-125	
Acetone	125	107	86	6	15	56-142	
Acrylonitrile	250	234	94	4	20	63-125	
Benzene	25.0	25.3	101	5	13	71-124	
Chlorobromomethane	25.0	24.6	98	6	15	72-130	
Bromodichloromethane	25.0	26.0	104	4	15	80-122	
Bromoform	25.0	25.4	102	2	15	61-132	
Bromomethane	25.0	21.4	86	11	15	55-144	
Carbon disulfide	25.0	24.6	99	9	15	59-134	
Carbon tetrachloride	25.0	23.9	95	7	15	72-134	
Chlorobenzene	25.0	25.0	100	3	25	80-120	
Dibromochloromethane	25.0	25.8	103	1	15	75-125	
Chloroethane	25.0	22.3	89	10	15	69-136	
Chloroform	25.0	23.5	94	7	20	73-127	
Chloromethane	25.0	19.5	78	15	15	68-124	
cis-1,2-Dichloroethene	25.0	25.4	102	6	15	74-124	
cis-1,3-Dichloropropene	25.0	28.7	115	2	15	74-124	
Dibromomethane	25.0	25.3	101	1	15	76-127	
Ethylbenzene	25.0	23.5	94	7	15	77-123	
1,2-Dibromoethane	25.0	26.2	105	0	15	77-120	
Iodomethane	25.0	25.2	101	6	20	78-123	
Methylene Chloride	25.0	24.5	98	5	15	75-124	
Styrene	25.0	25.1	100	4	20	80-120	
Tetrachloroethene	25.0	25.9	103	3	20	74-122	
Trichlorofluoromethane	25.0	23.7	95	9	20	62-150	
Trichloroethene	25.0	26.5	106	5	16	74-123	
Toluene	25.0	25.6	102	3	15	80-122	
trans-1,2-Dichloroethene	25.0	25.9	104	6	20	73-127	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water Level: Low Lab File ID: D0813.D

Lab ID: LCSD 480-629695/7 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	25.0	27.2	109	1	15	80-120	
trans-1,4-Dichloro-2-butene	25.0	23.8	95	2	20	41-131	
Vinyl acetate	50.0	69.1	138	3	23	50-144	
Vinyl chloride	25.0	22.5	90	11	15	65-133	
m,p-Xylene	25.0	23.7	95	5	16	76-122	
o-Xylene	25.0	23.8	95	3	16	76-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab File ID: D0815.D Lab Sample ID: MB 480-629695/9

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

Instrument ID: HP5975D Date Analyzed: 06/12/2022 01:04

GC Column: ZB-624 (20) ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-629695/6	D0812.D	06/11/2022 23:59
	LCSD 480-629695/7	D0813.D	06/12/2022 00:21
CD-1	480-198720-1	D0818.D	06/12/2022 02:10
CD-1RA	480-198720-2	D0819.D	06/12/2022 02:32
MW-1B	480-198720-3	D0820.D	06/12/2022 02:54
DUP CD-1RA	480-198720-4	D0821.D	06/12/2022 03:16
TRIP BLANK 1	480-198720-5	D0822.D	06/12/2022 03:38

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab File ID: N5624.D Lab Sample ID: MB 480-630178/8

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

Instrument ID: HP5973N Date Analyzed: 06/15/2022 20:59

GC Column: ZB-624 (20) ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-630178/6	N5622.D	06/15/2022 20:12
MW-1A	480-198813-1	N5627.D	06/15/2022 22:08
MW-2A	480-198813-2	N5628.D	06/15/2022 22:31
MW-2B	480-198813-3	N5629.D	06/15/2022 22:55
MW-3A	480-198813-4	N5630.D	06/15/2022 23:18
MW-3B	480-198813-5	N5631.D	06/15/2022 23:42
MW-4A	480-198813-6	N5632.D	06/16/2022 00:04
MW-5A	480-198813-7	N5633.D	06/16/2022 00:27
MW-6A	480-198813-8	N5634.D	06/16/2022 00:50
MW-6B	480-198813-9	N5635.D	06/16/2022 01:13
MW-7A	480-198813-10	N5636.D	06/16/2022 01:37
TRIP BLANK 1	480-198813-11	N5637.D	06/16/2022 02:00

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

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab File ID: N5154.D BFB Injection Date: 06/06/2022

Instrument ID: HP5973N BFB Injection Time: 16:59

Analysis Batch No.: 628923

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	33.5	
75	30.0 - 60.0 % of mass 95	58.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	87.9	
175	5.0 - 9.0 % of mass 174	7.0	(8.0) 1
176	95.0 - 101.0 % of mass 174	86.5	(98.4) 1
177	5.0 - 9.0 % of mass 176	5.0	(5.7) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-628923/9	N5156.D	06/06/2022	17:50
	IC 480-628923/10	N5157.D	06/06/2022	18:13
	IC 480-628923/11	N5158.D	06/06/2022	18:37
	IC 480-628923/12	N5159.D	06/06/2022	19:00
	IC 480-628923/13	N5160.D	06/06/2022	19:24
	ICIS 480-628923/14	N5161.D	06/06/2022	19:47
	IC 480-628923/15	N5162.D	06/06/2022	20:10
	IC 480-628923/16	N5163.D	06/06/2022	20:33
	ICV 480-628923/30	N5177.D	06/07/2022	1:57

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

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab File ID: N5618.D BFB Injection Date: 06/15/2022

Instrument ID: HP5973N BFB Injection Time: 18:40

Analysis Batch No.: 630178

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	32.3	
75	30.0 - 60.0 % of mass 95	53.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	82.2	
175	5.0 - 9.0 % of mass 174	6.5	(7.9) 1
176	95.0 - 101.0 % of mass 174	78.7	(95.7) 1
177	5.0 - 9.0 % of mass 176	5.0	(6.4) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-630178/4	N5620.D	06/15/2022	19:26
	LCS 480-630178/6	N5622.D	06/15/2022	20:12
	MB 480-630178/8	N5624.D	06/15/2022	20:59
MW-1A	480-198813-1	N5627.D	06/15/2022	22:08
MW-2A	480-198813-2	N5628.D	06/15/2022	22:31
MW-2B	480-198813-3	N5629.D	06/15/2022	22:55
MW-3A	480-198813-4	N5630.D	06/15/2022	23:18
MW-3B	480-198813-5	N5631.D	06/15/2022	23:42
MW-4A	480-198813-6	N5632.D	06/16/2022	0:04
MW-5A	480-198813-7	N5633.D	06/16/2022	0:27
MW-6A	480-198813-8	N5634.D	06/16/2022	0:50
MW-6B	480-198813-9	N5635.D	06/16/2022	1:13
MW-7A	480-198813-10	N5636.D	06/16/2022	1:37
TRIP BLANK 1	480-198813-11	N5637.D	06/16/2022	2:00

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

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab File ID: D0719.D BFB Injection Date: 06/09/2022

Instrument ID: HP5975D BFB Injection Time: 14:17

Analysis Batch No.: 629405

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.2	
75	30.0 - 60.0 % of mass 95	44.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.4	(0.4) 1
174	Greater than 50% of mass 95	89.9	
175	5.0 - 9.0 % of mass 174	6.6	(7.3) 1
176	95.0 - 101.0 % of mass 174	87.4	(97.2) 1
177	5.0 - 9.0 % of mass 176	5.8	(6.7) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-629405/10	D0721.D	06/09/2022	15:00
	IC 480-629405/11	D0722.D	06/09/2022	15:22
	IC 480-629405/12	D0723.D	06/09/2022	15:44
	IC 480-629405/13	D0724.D	06/09/2022	16:06
	IC 480-629405/14	D0725.D	06/09/2022	16:28
	ICIS 480-629405/15	D0726.D	06/09/2022	16:50
	IC 480-629405/16	D0727.D	06/09/2022	17:12
	IC 480-629405/17	D0728.D	06/09/2022	17:34

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

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab File ID: D0809.D BFB Injection Date: 06/11/2022

Instrument ID: HP5975D BFB Injection Time: 22:54

Analysis Batch No.: 629695

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.4	
75	30.0 - 60.0 % of mass 95	45.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	90.0	
175	5.0 - 9.0 % of mass 174	6.7	(7.4) 1
176	95.0 - 101.0 % of mass 174	86.2	(95.8) 1
177	5.0 - 9.0 % of mass 176	5.7	(6.6) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-629695/4	D0810.D	06/11/2022	23:15
	LCS 480-629695/6	D0812.D	06/11/2022	23:59
	LCSD 480-629695/7	D0813.D	06/12/2022	0:21
	MB 480-629695/9	D0815.D	06/12/2022	1:04
CD-1	480-198720-1	D0818.D	06/12/2022	2:10
CD-1RA	480-198720-2	D0819.D	06/12/2022	2:32
MW-1B	480-198720-3	D0820.D	06/12/2022	2:54
DUP CD-1RA	480-198720-4	D0821.D	06/12/2022	3:16
TRIP BLANK 1	480-198720-5	D0822.D	06/12/2022	3:38

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

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Sample No.: ICIS 480-628923/14 Date Analyzed: 06/06/2022 19:47

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): N5161.D Heated Purge: (Y/N) N

Calibration ID: 43562

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		223510	5.24	770261	8.22	392826	10.64
UPPER LIMIT		447020	5.74	1540522	8.72	785652	11.14
LOWER LIMIT		111755	4.74	385131	7.72	196413	10.14
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-628923/30		213849	5.24	754962	8.22	404062	10.64
CCVIS 480-630178/4		210086	5.24	779295	8.22	369656	10.64

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

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Sample No.: CCVIS 480-630178/4 Date Analyzed: 06/15/2022 19:26

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): N5620.D Heated Purge: (Y/N) N

Calibration ID: 43564

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		210086	5.24	779295	8.22	369656	10.64
UPPER LIMIT		420172	5.74	1558590	8.72	739312	11.14
LOWER LIMIT		105043	4.74	389648	7.72	184828	10.14
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-630178/6		195238	5.24	708170	8.22	367621	10.64
MB 480-630178/8		194980	5.25	700780	8.22	367020	10.64
480-198813-1	MW-1A	211959	5.24	766038	8.22	359569	10.64
480-198813-2	MW-2A	215823	5.25	740678	8.22	394717	10.64
480-198813-3	MW-2B	212174	5.24	745849	8.22	409615	10.64
480-198813-4	MW-3A	195386	5.24	700401	8.22	376627	10.64
480-198813-5	MW-3B	210838	5.25	692721	8.22	364459	10.64
480-198813-6	MW-4A	195712	5.24	696063	8.22	403346	10.64
480-198813-7	MW-5A	197726	5.24	691639	8.22	386731	10.64
480-198813-8	MW-6A	212714	5.25	748656	8.22	407230	10.64
480-198813-9	MW-6B	212541	5.24	769587	8.22	408661	10.64
480-198813-10	MW-7A	219124	5.24	766326	8.22	405366	10.64
480-198813-11	TRIP BLANK 1	210145	5.24	737359	8.22	402264	10.64

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

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Sample No.: ICIS 480-629405/15 Date Analyzed: 06/09/2022 16:50

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): D0726.D Heated Purge: (Y/N) N

Calibration ID: 43593

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		157193	4.90	301108	7.26	320818	9.16
UPPER LIMIT		314386	5.40	602216	7.76	641636	9.66
LOWER LIMIT		78597	4.40	150554	6.76	160409	8.66
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-629695/4		157399	4.90	303158	7.26	310029	9.16

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

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Sample No.: CCVIS 480-629695/4 Date Analyzed: 06/11/2022 23:15

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): D0810.D Heated Purge: (Y/N) N

Calibration ID: 43596

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		157399	4.90	303158	7.26	310029	9.16
UPPER LIMIT		314798	5.40	606316	7.76	620058	9.66
LOWER LIMIT		78700	4.40	151579	6.76	155015	8.66
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-629695/6		152961	4.90	304732	7.25	302501	9.16
LCSD 480-629695/7		159540	4.90	316021	7.25	306078	9.16
MB 480-629695/9		156166	4.90	296026	7.26	335884	9.16
480-198720-1	CD-1	156757	4.90	308238	7.25	357369	9.16
480-198720-2	CD-1RA	155102	4.90	308097	7.26	356306	9.16
480-198720-3	MW-1B	154688	4.90	307593	7.26	356628	9.16
480-198720-4	DUP CD-1RA	151699	4.90	294829	7.26	348950	9.16
480-198720-5	TRIP BLANK 1	153889	4.90	308800	7.26	355637	9.16

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

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

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: CD-1 | Lab Sample ID: 480-198720-1

Matrix: Water | Lab File ID: D0818.D

Analysis Method: 8260C | Date Collected: 06/06/2022 13:20

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2022 02:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND	*+	10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: CD-1 | Lab Sample ID: 480-198720-1

Matrix: Water | Lab File ID: D0818.D

Analysis Method: 8260C | Date Collected: 06/06/2022 13:20

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2022 02:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
2037-26-5	Toluene-d8 (Surr)	96		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0818.D
Lims ID: 480-198720-N-1
Client ID: CD-1
Sample Type: Client
Inject. Date: 12-Jun-2022 02:10:30 ALS Bottle#: 42 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198720-N-1
Misc. Info.: 480-0106025-012
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 12-Jun-2022 17:21:57 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: lapointec Date: 12-Jun-2022 17:21:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.895	4.895	0.000	98	156757	25.0	
* 2 Chlorobenzene-d5	82	7.249	7.249	0.000	87	308238	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.163	9.163	0.000	96	357369	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.670	4.670	0.000	100	145256	25.5	
$ 5 Toluene-d8 (Surr)	98	6.103	6.103	-0.001	95	739322	24.0	
$ 6 4-Bromofluorobenzene (Surr)	174	8.206	8.206	0.000	92	243477	25.5	
12 Chloromethane	50		1.353				ND	
13 Vinyl chloride	62		1.426				ND	
14 Bromomethane	94		1.719				ND	
15 Chloroethane	64		1.811				ND	
17 Trichlorofluoromethane	101		2.000				ND	
22 1,1-Dichloroethene	96		2.481				ND	
23 Acetone	43		2.597				ND	
25 Iodomethane	142		2.634				ND	
26 Carbon disulfide	76		2.664				ND	
30 Methylene Chloride	84		2.963				ND	
34 trans-1,2-Dichloroethene	96		3.170				ND	
33 Acrylonitrile	53		3.213				ND	
39 1,1-Dichloroethane	63		3.536				ND	
37 Vinyl acetate	43		3.585				ND	
45 cis-1,2-Dichloroethene	96		4.017				ND	
43 2-Butanone (MEK)	43		4.042				ND	
48 Chlorobromomethane	128		4.219				ND	
50 Chloroform	83		4.280				ND	
51 1,1,1-Trichloroethane	97		4.377				ND	
55 Carbon tetrachloride	117		4.493				ND	
57 Benzene	78		4.676				ND	
58 1,2-Dichloroethane	62		4.725				ND	
62 Trichloroethene	95		5.170				ND	
65 1,2-Dichloropropane	63		5.365				ND	
67 Dibromomethane	93		5.474				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
68 Dichlorobromomethane	83		5.590				ND	
72 cis-1,3-Dichloropropene	75		5.920				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.029				ND	U
74 Toluene	92		6.151				ND	
77 trans-1,3-Dichloropropene	75		6.365				ND	
79 1,1,2-Trichloroethane	83		6.511				ND	
81 Tetrachloroethene	166		6.572				ND	
80 2-Hexanone	43		6.675				ND	
83 Chlorodibromomethane	129		6.828				ND	
84 Ethylene Dibromide	107		6.913				ND	
87 Chlorobenzene	112		7.273				ND	
88 Ethylbenzene	91		7.340				ND	
89 1,1,1,2-Tetrachloroethane	131		7.346				ND	
90 m-Xylene & p-Xylene	106		7.431				ND	
91 o-Xylene	106		7.761				ND	
92 Styrene	104		7.779				ND	
95 Bromoform	173		7.974				ND	
97 1,1,2,2-Tetrachloroethane	83		8.358				ND	
100 1,2,3-Trichloropropane	110		8.389				ND	
98 trans-1,4-Dichloro-2-butene	53		8.395				ND	
113 1,4-Dichlorobenzene	146		9.181				ND	
116 1,2-Dichlorobenzene	146		9.504				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.181				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

D 8260 IS/SUR_00040 Amount Added: 1.00 Units: uL Run Reagent

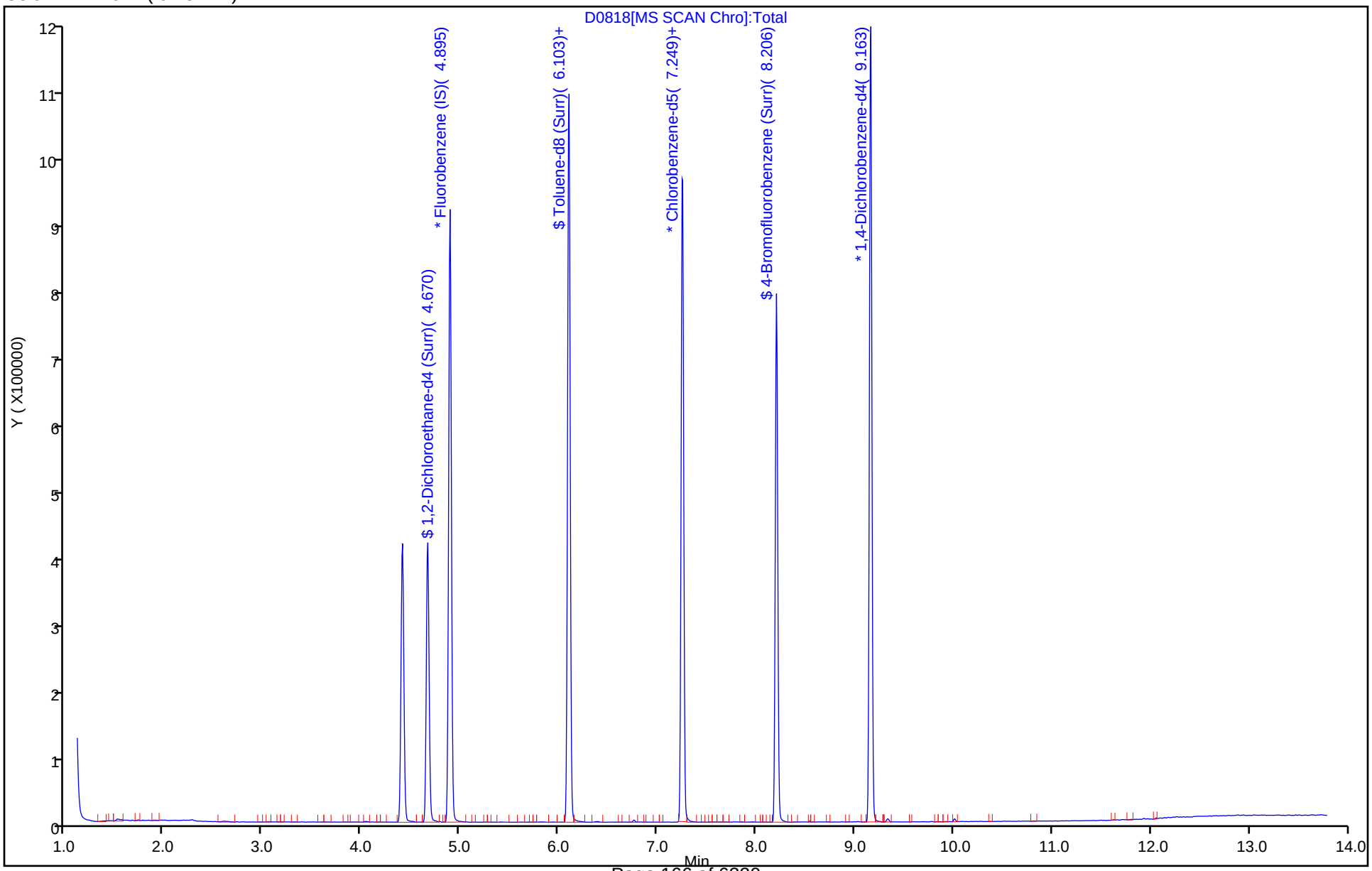
Report Date: 12-Jun-2022 17:21:57 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0818.D

Injection Date:	12-Jun-2022 02:10:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-198720-N-1	Lab Sample ID:	480-198720-1	Worklist Smp#:	12
Client ID:	CD-1				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	42
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0818.D
Lims ID: 480-198720-N-1
Client ID: CD-1
Sample Type: Client
Inject. Date: 12-Jun-2022 02:10:30 ALS Bottle#: 42 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198720-N-1
Misc. Info.: 480-0106025-012
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 12-Jun-2022 17:21:57 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: lapointec Date: 12-Jun-2022 17:21:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	25.5	101.81
$ 5 Toluene-d8 (Surr)	25.0	24.0	95.82
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.5	101.99

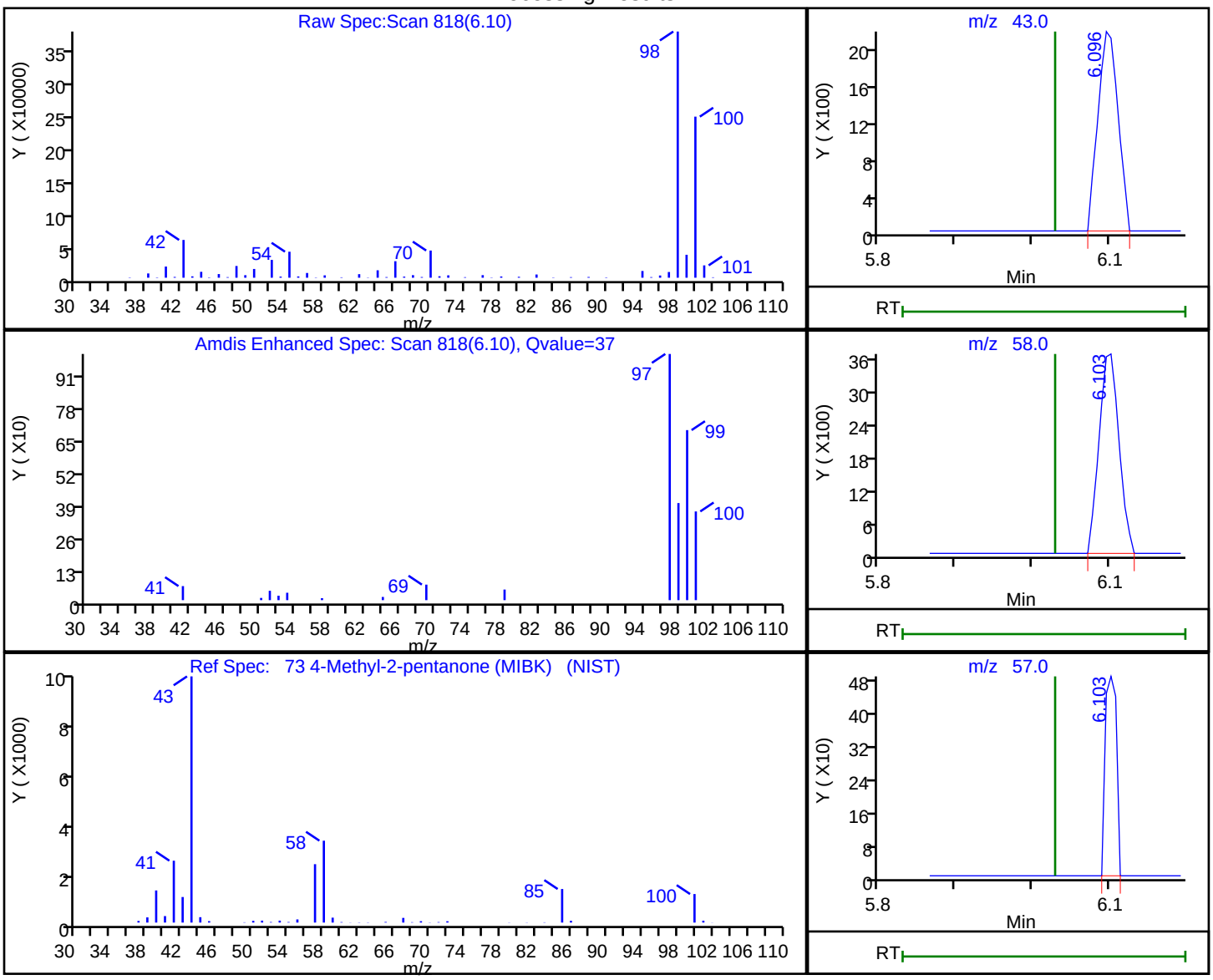
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0818.D				
Injection Date:	12-Jun-2022 02:10:30	Instrument ID:	HP5975D		
Lims ID:	480-198720-N-1	Lab Sample ID:	480-198720-1		
Client ID:	CD-1				
Operator ID:	AK	ALS Bottle#:	42	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

73 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.10	43.00	3903	0.343512
6.10	58.00	6711	
6.10	57.00	495	

Reviewer: lapointec, 12-Jun-2022 17:21:50

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: CD-1RA | Lab Sample ID: 480-198720-2

Matrix: Water | Lab File ID: D0819.D

Analysis Method: 8260C | Date Collected: 06/06/2022 12:10

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2022 02:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND	*+	10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: CD-1RA | Lab Sample ID: 480-198720-2

Matrix: Water | Lab File ID: D0819.D

Analysis Method: 8260C | Date Collected: 06/06/2022 12:10

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2022 02:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
2037-26-5	Toluene-d8 (Surr)	95		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0819.D
Lims ID: 480-198720-N-2
Client ID: CD-1RA
Sample Type: Client
Inject. Date: 12-Jun-2022 02:32:30 ALS Bottle#: 43 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198720-N-2
Misc. Info.: 480-0106025-013
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 12-Jun-2022 17:22:28 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: lapointec Date: 12-Jun-2022 17:22:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.895	4.895	0.000	98	155102	25.0	
* 2 Chlorobenzene-d5	82	7.255	7.249	0.006	87	308097	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.163	9.163	0.000	96	356306	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.670	4.670	0.000	100	144350	25.6	
$ 5 Toluene-d8 (Surr)	98	6.102	6.103	-0.001	95	731148	23.7	
$ 6 4-Bromofluorobenzene (Surr)	174	8.206	8.206	0.000	91	243293	25.5	
12 Chloromethane	50		1.353				ND	
13 Vinyl chloride	62		1.426				ND	
14 Bromomethane	94		1.719				ND	
15 Chloroethane	64		1.811				ND	
17 Trichlorofluoromethane	101		2.000				ND	
22 1,1-Dichloroethene	96		2.481				ND	
23 Acetone	43		2.597				ND	
25 Iodomethane	142		2.634				ND	
26 Carbon disulfide	76		2.664				ND	
30 Methylene Chloride	84		2.963				ND	
34 trans-1,2-Dichloroethene	96		3.170				ND	
33 Acrylonitrile	53		3.213				ND	
39 1,1-Dichloroethane	63		3.536				ND	
37 Vinyl acetate	43		3.585				ND	
45 cis-1,2-Dichloroethene	96		4.017				ND	
43 2-Butanone (MEK)	43		4.042				ND	
48 Chlorobromomethane	128		4.219				ND	
50 Chloroform	83		4.280				ND	
51 1,1,1-Trichloroethane	97		4.377				ND	
55 Carbon tetrachloride	117		4.493				ND	
57 Benzene	78		4.676				ND	
58 1,2-Dichloroethane	62		4.725				ND	
62 Trichloroethene	95		5.170				ND	
65 1,2-Dichloropropane	63		5.365				ND	
67 Dibromomethane	93		5.474				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
68 Dichlorobromomethane	83		5.590				ND	
72 cis-1,3-Dichloropropene	75		5.920				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.029				ND	U
74 Toluene	92		6.151				ND	
77 trans-1,3-Dichloropropene	75		6.365				ND	
79 1,1,2-Trichloroethane	83		6.511				ND	
81 Tetrachloroethene	166		6.572				ND	
80 2-Hexanone	43		6.675				ND	
83 Chlorodibromomethane	129		6.828				ND	
84 Ethylene Dibromide	107		6.913				ND	
87 Chlorobenzene	112		7.273				ND	
88 Ethylbenzene	91		7.340				ND	
89 1,1,1,2-Tetrachloroethane	131		7.346				ND	
90 m-Xylene & p-Xylene	106		7.431				ND	
91 o-Xylene	106		7.761				ND	
92 Styrene	104		7.779				ND	
95 Bromoform	173		7.974				ND	
97 1,1,2,2-Tetrachloroethane	83		8.358				ND	
100 1,2,3-Trichloropropane	110		8.389				ND	
98 trans-1,4-Dichloro-2-butene	53		8.395				ND	
113 1,4-Dichlorobenzene	146		9.181				ND	
116 1,2-Dichlorobenzene	146		9.504				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.181				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

D 8260 IS/SUR_00040 Amount Added: 1.00 Units: uL Run Reagent

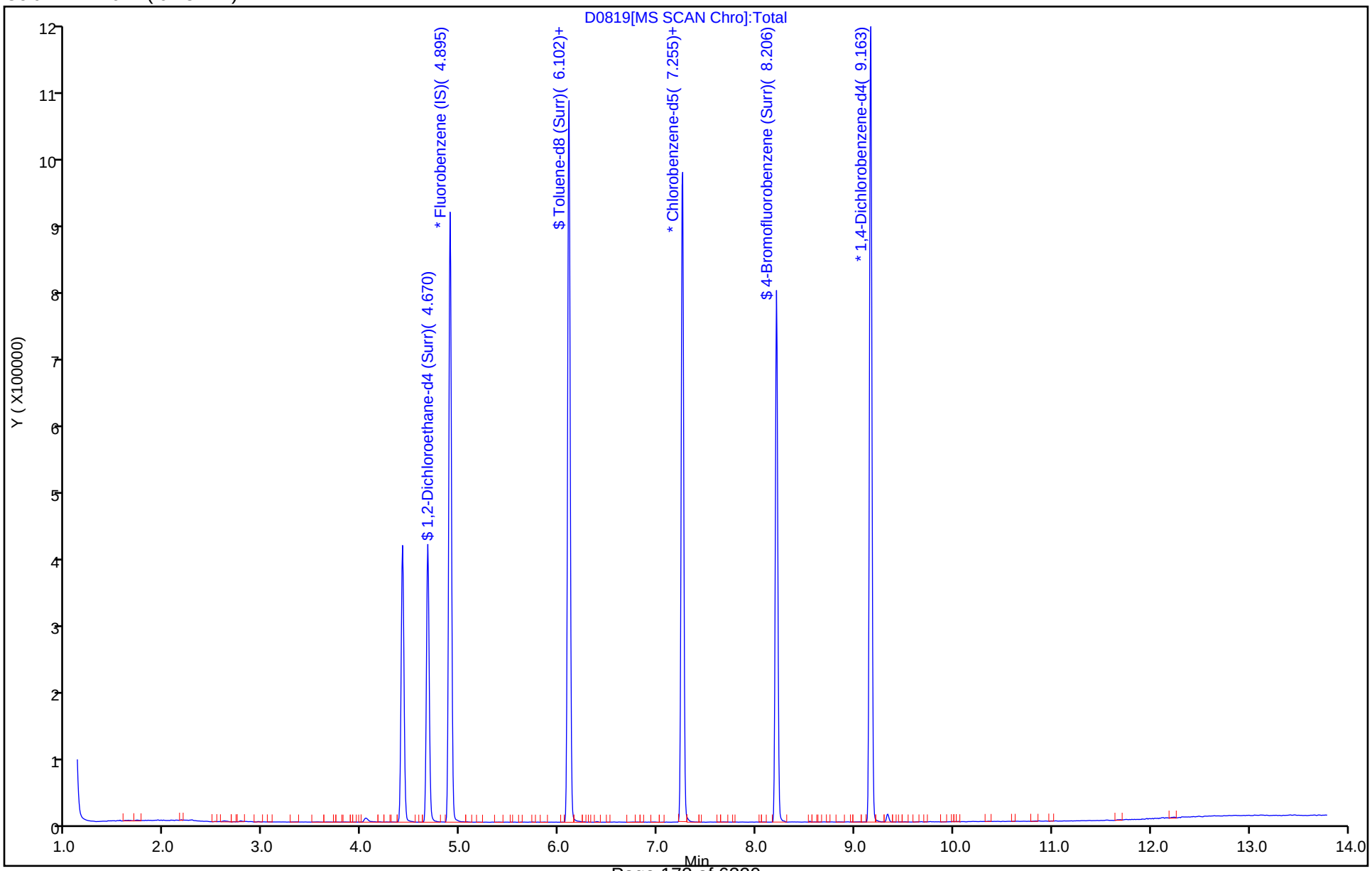
Report Date: 12-Jun-2022 17:22:29 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0819.D

Injection Date:	12-Jun-2022 02:32:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-198720-N-2	Lab Sample ID:	480-198720-2	Worklist Smp#:	13
Client ID:	CD-1RA				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	43
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0819.D
Lims ID: 480-198720-N-2
Client ID: CD-1RA
Sample Type: Client
Inject. Date: 12-Jun-2022 02:32:30 ALS Bottle#: 43 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198720-N-2
Misc. Info.: 480-0106025-013
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 12-Jun-2022 17:22:28 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: lapointec Date: 12-Jun-2022 17:22:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	25.6	102.26
$ 5 Toluene-d8 (Surr)	25.0	23.7	94.80
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.5	101.96

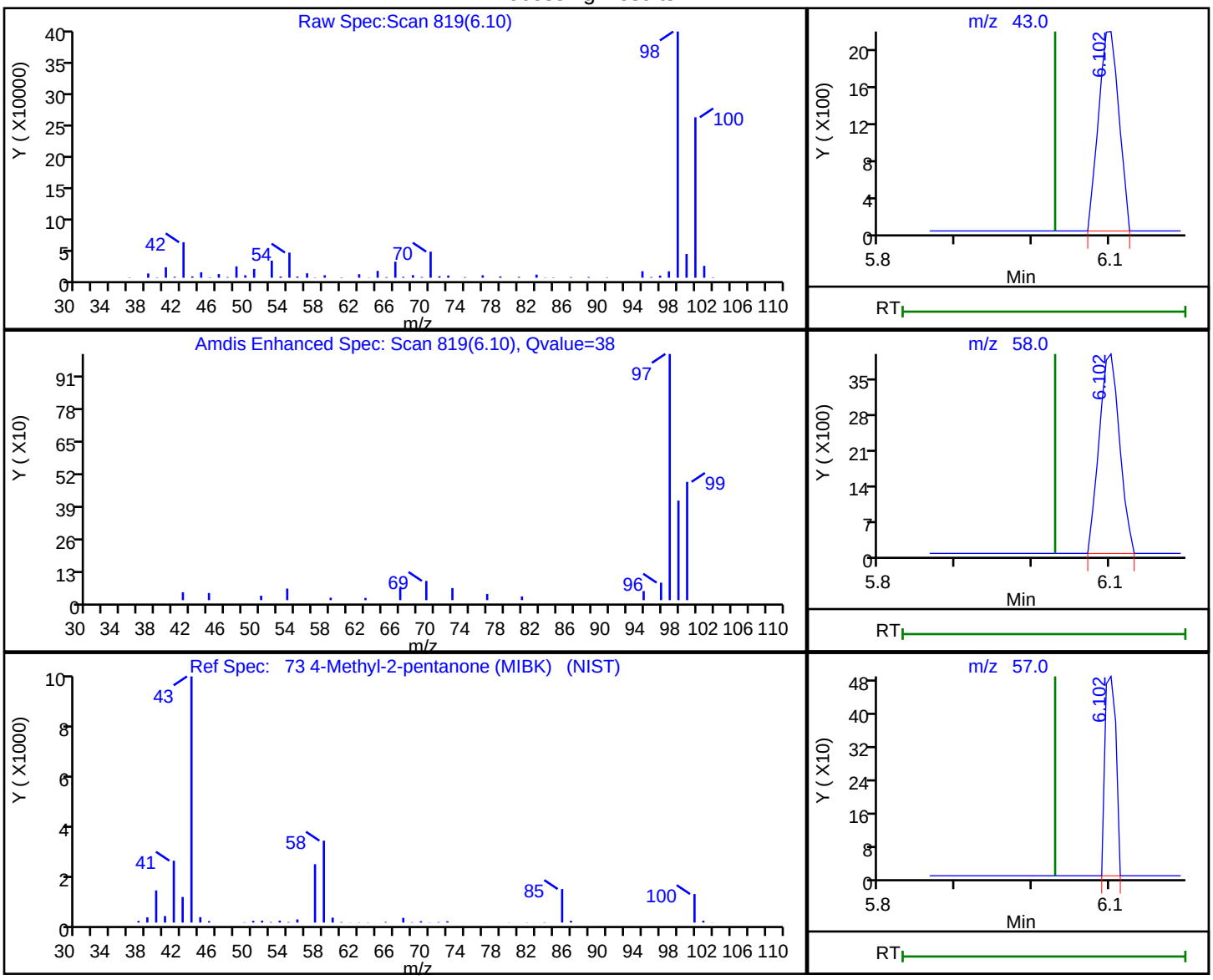
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0819.D				
Injection Date:	12-Jun-2022 02:32:30	Instrument ID:	HP5975D		
Lims ID:	480-198720-N-2	Lab Sample ID:	480-198720-2		
Client ID:	CD-1RA				
Operator ID:	AK	ALS Bottle#:	43	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

73 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.10	43.00	3904	0.343758
6.10	58.00	7396	
6.10	57.00	482	

Reviewer: lapointec, 12-Jun-2022 17:22:20

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-1B | Lab Sample ID: 480-198720-3

Matrix: Water | Lab File ID: D0820.D

Analysis Method: 8260C | Date Collected: 06/06/2022 14:40

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2022 02:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND	*+	10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-1B | Lab Sample ID: 480-198720-3

Matrix: Water | Lab File ID: D0820.D

Analysis Method: 8260C | Date Collected: 06/06/2022 14:40

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2022 02:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
2037-26-5	Toluene-d8 (Surr)	95		80-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0820.D
Lims ID: 480-198720-N-3
Client ID: MW-1B
Sample Type: Client
Inject. Date: 12-Jun-2022 02:54:30 ALS Bottle#: 44 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198720-N-3
Misc. Info.: 480-0106025-014
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 12-Jun-2022 17:22:56 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: lapointec Date: 12-Jun-2022 17:22:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.896	4.895	0.001	98	154688	25.0	
* 2 Chlorobenzene-d5	82	7.255	7.249	0.006	87	307593	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.163	9.163	0.000	96	356628	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.670	4.670	0.000	99	144163	25.6	
$ 5 Toluene-d8 (Surr)	98	6.103	6.103	0.000	95	733345	23.8	
$ 6 4-Bromofluorobenzene (Surr)	174	8.206	8.206	0.000	92	248674	26.1	
12 Chloromethane	50		1.353				ND	
13 Vinyl chloride	62		1.426				ND	
14 Bromomethane	94		1.719				ND	
15 Chloroethane	64		1.811				ND	
17 Trichlorofluoromethane	101		2.000				ND	
22 1,1-Dichloroethene	96		2.481				ND	
23 Acetone	43		2.597				ND	
25 Iodomethane	142		2.634				ND	
26 Carbon disulfide	76		2.664				ND	
30 Methylene Chloride	84		2.963				ND	
34 trans-1,2-Dichloroethene	96		3.170				ND	
33 Acrylonitrile	53		3.213				ND	
39 1,1-Dichloroethane	63		3.536				ND	
37 Vinyl acetate	43		3.585				ND	
45 cis-1,2-Dichloroethene	96		4.017				ND	
43 2-Butanone (MEK)	43		4.042				ND	
48 Chlorobromomethane	128		4.219				ND	
50 Chloroform	83		4.280				ND	
51 1,1,1-Trichloroethane	97		4.377				ND	
55 Carbon tetrachloride	117		4.493				ND	
57 Benzene	78		4.676				ND	
58 1,2-Dichloroethane	62		4.725				ND	
62 Trichloroethene	95		5.170				ND	
65 1,2-Dichloropropane	63		5.365				ND	
67 Dibromomethane	93		5.474				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
68 Dichlorobromomethane	83		5.590				ND	
72 cis-1,3-Dichloropropene	75		5.920				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.029				ND	U
74 Toluene	92		6.151				ND	
77 trans-1,3-Dichloropropene	75		6.365				ND	
79 1,1,2-Trichloroethane	83		6.511				ND	
81 Tetrachloroethene	166		6.572				ND	
80 2-Hexanone	43		6.675				ND	
83 Chlorodibromomethane	129		6.828				ND	
84 Ethylene Dibromide	107		6.913				ND	
87 Chlorobenzene	112		7.273				ND	
88 Ethylbenzene	91		7.340				ND	
89 1,1,1,2-Tetrachloroethane	131		7.346				ND	
90 m-Xylene & p-Xylene	106		7.431				ND	
91 o-Xylene	106		7.761				ND	
92 Styrene	104		7.779				ND	
95 Bromoform	173		7.974				ND	
97 1,1,2,2-Tetrachloroethane	83		8.358				ND	
100 1,2,3-Trichloropropane	110		8.389				ND	
98 trans-1,4-Dichloro-2-butene	53		8.395				ND	
113 1,4-Dichlorobenzene	146		9.181				ND	
116 1,2-Dichlorobenzene	146		9.504				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.181				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

D 8260 IS/SUR_00040 Amount Added: 1.00 Units: uL Run Reagent

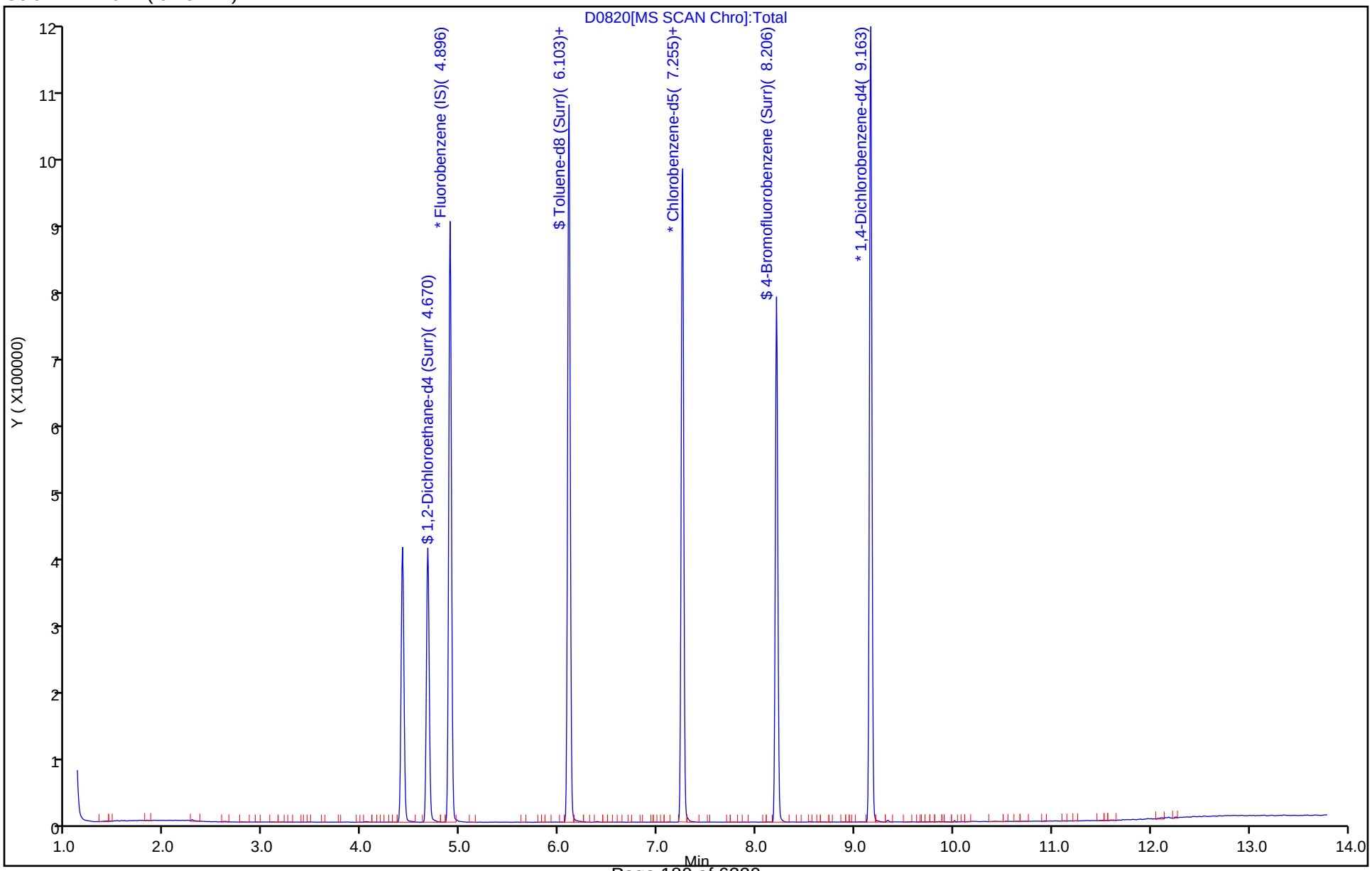
Report Date: 12-Jun-2022 17:22:56 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0820.D

Injection Date:	12-Jun-2022 02:54:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-198720-N-3	Lab Sample ID:	480-198720-3	Worklist Smp#:	14
Client ID:	MW-1B				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	44
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0820.D
Lims ID: 480-198720-N-3
Client ID: MW-1B
Sample Type: Client
Inject. Date: 12-Jun-2022 02:54:30 ALS Bottle#: 44 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198720-N-3
Misc. Info.: 480-0106025-014
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 12-Jun-2022 17:22:56 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: lapointec Date: 12-Jun-2022 17:22:56

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	25.6	102.40
$ 5 Toluene-d8 (Surr)	25.0	23.8	95.24
$ 6 4-Bromofluorobenzene (Surr)	25.0	26.1	104.38

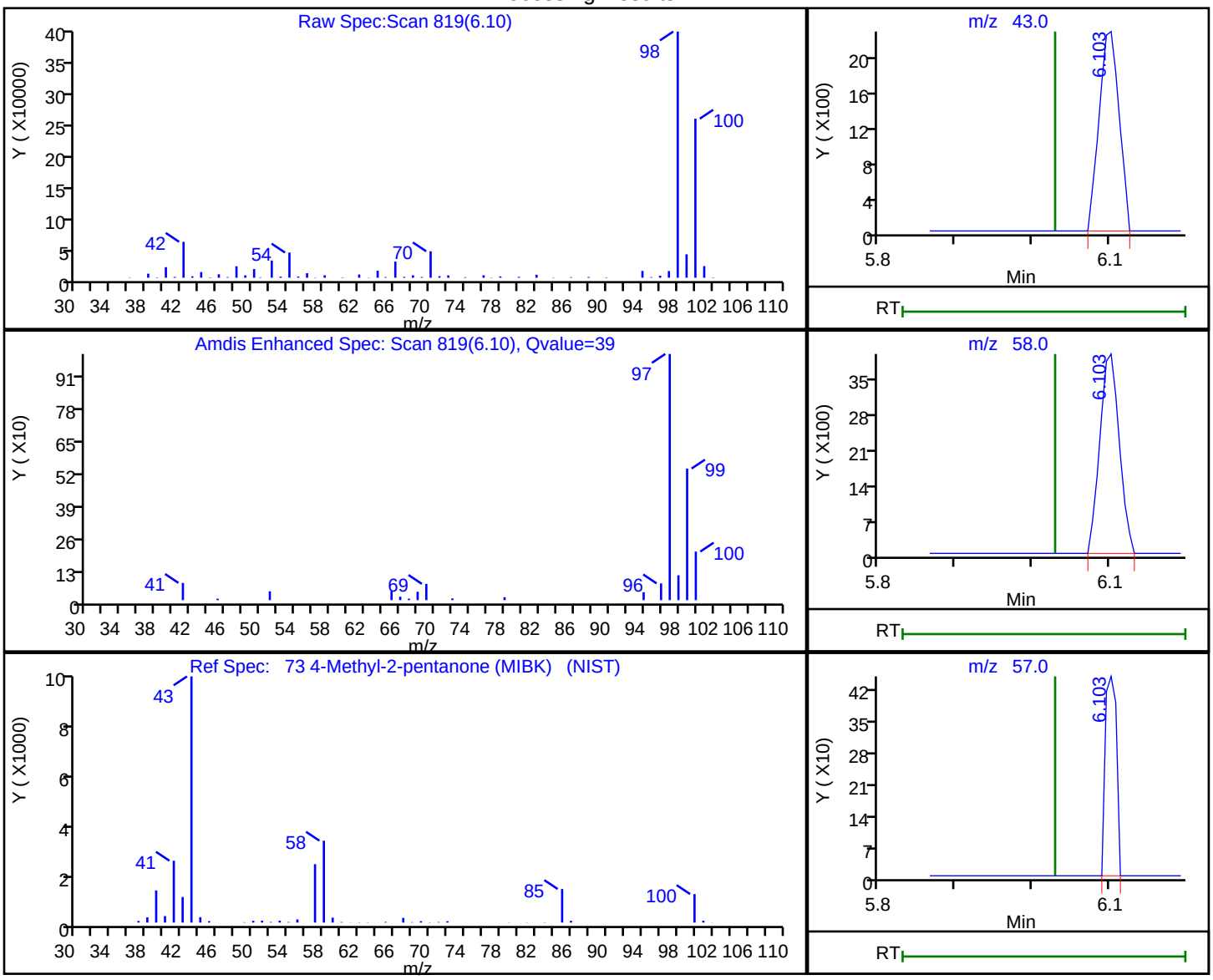
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0820.D				
Injection Date:	12-Jun-2022 02:54:30	Instrument ID:	HP5975D		
Lims ID:	480-198720-N-3	Lab Sample ID:	480-198720-3		
Client ID:	MW-1B				
Operator ID:	AK	ALS Bottle#:	44	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

73 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.10	43.00	4151	0.366106
6.10	58.00	7084	
6.10	57.00	460	

Reviewer: lapointec, 12-Jun-2022 17:22:48

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: DUP CD-1RA | Lab Sample ID: 480-198720-4

Matrix: Water | Lab File ID: D0821.D

Analysis Method: 8260C | Date Collected: 06/06/2022 12:10

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2022 03:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND	*+	10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: DUP CD-1RA | Lab Sample ID: 480-198720-4

Matrix: Water | Lab File ID: D0821.D

Analysis Method: 8260C | Date Collected: 06/06/2022 12:10

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2022 03:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
2037-26-5	Toluene-d8 (Surr)	97		80-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0821.D
Lims ID: 480-198720-N-4
Client ID: DUP CD-1RA
Sample Type: Client
Inject. Date: 12-Jun-2022 03:16:30 ALS Bottle#: 45 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198720-N-4
Misc. Info.: 480-0106025-015
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 12-Jun-2022 17:23:17 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: lapointec Date: 12-Jun-2022 17:23:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.895	4.895	0.000	98	151699	25.0	
* 2 Chlorobenzene-d5	82	7.255	7.249	0.006	88	294829	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.163	9.163	0.000	96	348950	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.670	4.670	0.000	99	142364	25.8	
$ 5 Toluene-d8 (Surr)	98	6.102	6.103	-0.001	95	712956	24.2	
$ 6 4-Bromofluorobenzene (Surr)	174	8.206	8.206	0.000	92	236933	25.9	
12 Chloromethane	50		1.353				ND	
13 Vinyl chloride	62		1.426				ND	
14 Bromomethane	94		1.719				ND	
15 Chloroethane	64		1.811				ND	
17 Trichlorofluoromethane	101		2.000				ND	
22 1,1-Dichloroethene	96		2.481				ND	
23 Acetone	43		2.597				ND	
25 Iodomethane	142		2.634				ND	
26 Carbon disulfide	76		2.664				ND	
30 Methylene Chloride	84		2.963				ND	
34 trans-1,2-Dichloroethene	96		3.170				ND	
33 Acrylonitrile	53		3.213				ND	
39 1,1-Dichloroethane	63		3.536				ND	
37 Vinyl acetate	43		3.585				ND	
45 cis-1,2-Dichloroethene	96		4.017				ND	
43 2-Butanone (MEK)	43		4.042				ND	
48 Chlorobromomethane	128		4.219				ND	
50 Chloroform	83		4.280				ND	
51 1,1,1-Trichloroethane	97		4.377				ND	
55 Carbon tetrachloride	117		4.493				ND	
57 Benzene	78		4.676				ND	
58 1,2-Dichloroethane	62		4.725				ND	
62 Trichloroethene	95		5.170				ND	
65 1,2-Dichloropropane	63		5.365				ND	
67 Dibromomethane	93		5.474				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
68 Dichlorobromomethane	83		5.590				ND	
72 cis-1,3-Dichloropropene	75		5.920				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.029				ND	U
74 Toluene	92		6.151				ND	
77 trans-1,3-Dichloropropene	75		6.365				ND	
79 1,1,2-Trichloroethane	83		6.511				ND	
81 Tetrachloroethene	166		6.572				ND	
80 2-Hexanone	43		6.675				ND	
83 Chlorodibromomethane	129		6.828				ND	
84 Ethylene Dibromide	107		6.913				ND	
87 Chlorobenzene	112		7.273				ND	
88 Ethylbenzene	91		7.340				ND	
89 1,1,1,2-Tetrachloroethane	131		7.346				ND	
90 m-Xylene & p-Xylene	106		7.431				ND	
91 o-Xylene	106		7.761				ND	
92 Styrene	104		7.779				ND	
95 Bromoform	173		7.974				ND	
97 1,1,2,2-Tetrachloroethane	83		8.358				ND	
100 1,2,3-Trichloropropane	110		8.389				ND	
98 trans-1,4-Dichloro-2-butene	53		8.395				ND	
113 1,4-Dichlorobenzene	146		9.181				ND	
116 1,2-Dichlorobenzene	146		9.504				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.181				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

D 8260 IS/SUR_00040 Amount Added: 1.00 Units: uL Run Reagent

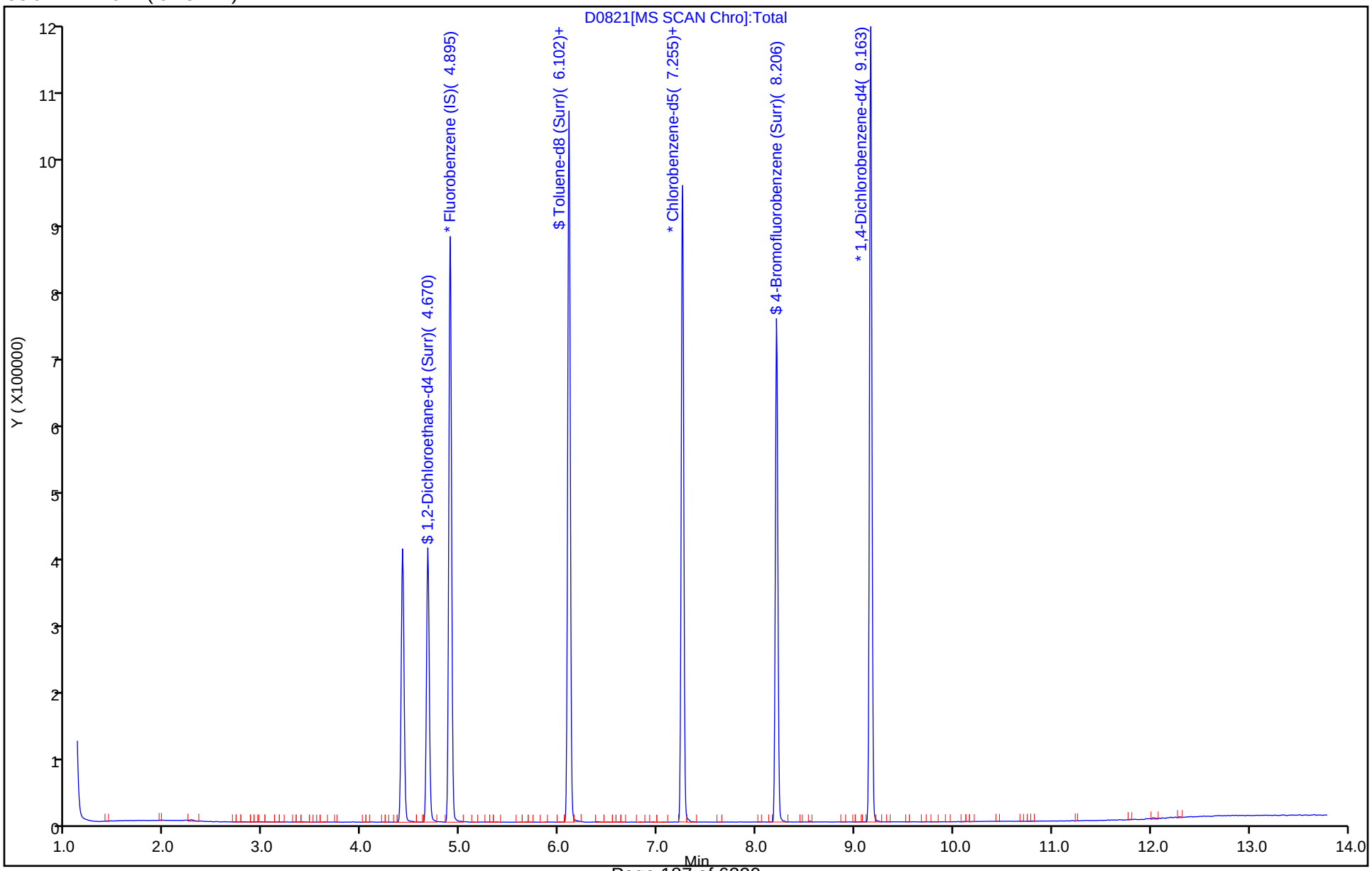
Report Date: 12-Jun-2022 17:23:17 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0821.D

Injection Date:	12-Jun-2022 03:16:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-198720-N-4	Lab Sample ID:	480-198720-4	Worklist Smp#:	15
Client ID:	DUP CD-1RA				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	45
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0821.D
Lims ID: 480-198720-N-4
Client ID: DUP CD-1RA
Sample Type: Client
Inject. Date: 12-Jun-2022 03:16:30 ALS Bottle#: 45 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198720-N-4
Misc. Info.: 480-0106025-015
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 12-Jun-2022 17:23:17 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: lapointec Date: 12-Jun-2022 17:23:17

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	25.8	103.11
$ 5 Toluene-d8 (Surr)	25.0	24.2	96.60
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.9	103.76

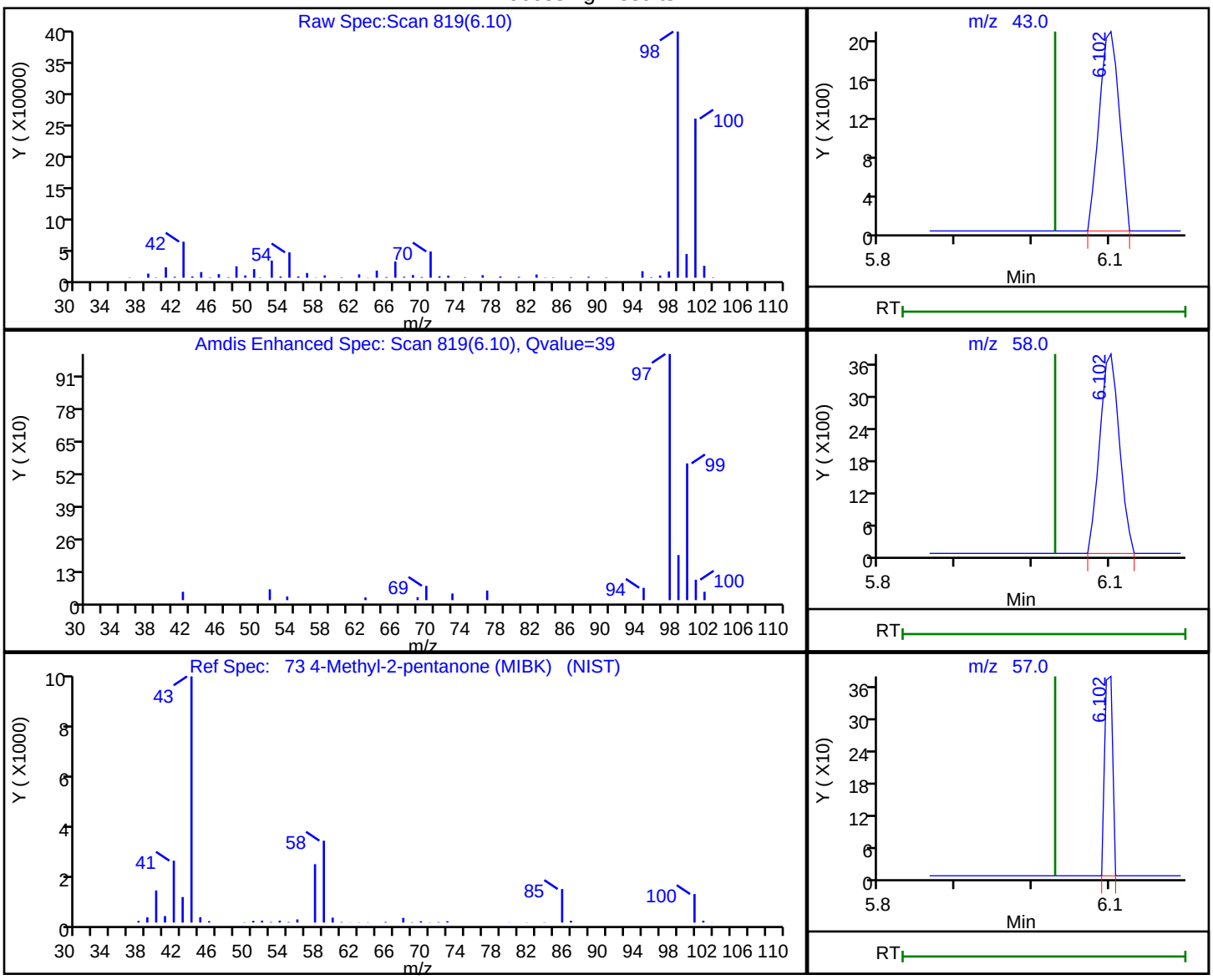
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0821.D				
Injection Date:	12-Jun-2022 03:16:30	Instrument ID:	HP5975D		
Lims ID:	480-198720-N-4	Lab Sample ID:	480-198720-4		
Client ID:	DUP CD-1RA				
Operator ID:	AK	ALS Bottle#:	45	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

73 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.10	43.00	3658	0.336592
6.10	58.00	6596	
6.10	57.00	272	

Reviewer: lapointec, 12-Jun-2022 17:23:09

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: TRIP BLANK 1 | Lab Sample ID: 480-198720-5

Matrix: Water | Lab File ID: D0822.D

Analysis Method: 8260C | Date Collected: 06/06/2022 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2022 03:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND	*+	10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: TRIP BLANK 1 | Lab Sample ID: 480-198720-5

Matrix: Water | Lab File ID: D0822.D

Analysis Method: 8260C | Date Collected: 06/06/2022 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2022 03:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
2037-26-5	Toluene-d8 (Surr)	94		80-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0822.D
Lims ID: 480-198720-A-5
Client ID: TRIP BLANK 1
Sample Type: Client
Inject. Date: 12-Jun-2022 03:38:30 ALS Bottle#: 46 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198720-A-5
Misc. Info.: 480-0106025-016
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 12-Jun-2022 17:23:39 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: lapointec Date: 12-Jun-2022 17:23:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.895	4.895	0.000	98	153889	25.0	
* 2 Chlorobenzene-d5	82	7.255	7.249	0.006	87	308800	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.163	9.163	0.000	96	355637	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.670	4.670	0.000	100	144226	25.7	
$ 5 Toluene-d8 (Surr)	98	6.102	6.103	-0.001	95	727640	23.5	
$ 6 4-Bromofluorobenzene (Surr)	174	8.206	8.206	0.000	92	251902	26.3	
12 Chloromethane	50		1.353				ND	
13 Vinyl chloride	62		1.426				ND	
14 Bromomethane	94		1.719				ND	
15 Chloroethane	64		1.811				ND	
17 Trichlorofluoromethane	101		2.000				ND	
22 1,1-Dichloroethene	96		2.481				ND	
23 Acetone	43		2.597				ND	
25 Iodomethane	142		2.634				ND	
26 Carbon disulfide	76		2.664				ND	
30 Methylene Chloride	84		2.963				ND	
34 trans-1,2-Dichloroethene	96		3.170				ND	
33 Acrylonitrile	53		3.213				ND	
39 1,1-Dichloroethane	63		3.536				ND	
37 Vinyl acetate	43		3.585				ND	
45 cis-1,2-Dichloroethene	96		4.017				ND	
43 2-Butanone (MEK)	43		4.042				ND	
48 Chlorobromomethane	128		4.219				ND	
50 Chloroform	83		4.280				ND	
51 1,1,1-Trichloroethane	97		4.377				ND	
55 Carbon tetrachloride	117		4.493				ND	
57 Benzene	78		4.676				ND	
58 1,2-Dichloroethane	62		4.725				ND	
62 Trichloroethene	95		5.170				ND	
65 1,2-Dichloropropane	63		5.365				ND	
67 Dibromomethane	93		5.474				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
68 Dichlorobromomethane	83		5.590				ND	
72 cis-1,3-Dichloropropene	75		5.920				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.029				ND	U
74 Toluene	92		6.151				ND	
77 trans-1,3-Dichloropropene	75		6.365				ND	
79 1,1,2-Trichloroethane	83		6.511				ND	
81 Tetrachloroethene	166		6.572				ND	
80 2-Hexanone	43		6.675				ND	
83 Chlorodibromomethane	129		6.828				ND	
84 Ethylene Dibromide	107		6.913				ND	
87 Chlorobenzene	112		7.273				ND	
88 Ethylbenzene	91		7.340				ND	
89 1,1,1,2-Tetrachloroethane	131		7.346				ND	
90 m-Xylene & p-Xylene	106		7.431				ND	
91 o-Xylene	106		7.761				ND	
92 Styrene	104		7.779				ND	
95 Bromoform	173		7.974				ND	
97 1,1,2,2-Tetrachloroethane	83		8.358				ND	
100 1,2,3-Trichloropropane	110		8.389				ND	
98 trans-1,4-Dichloro-2-butene	53		8.395				ND	
113 1,4-Dichlorobenzene	146		9.181				ND	
116 1,2-Dichlorobenzene	146		9.504				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.181				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

D 8260 IS/SUR_00040 Amount Added: 1.00 Units: uL Run Reagent

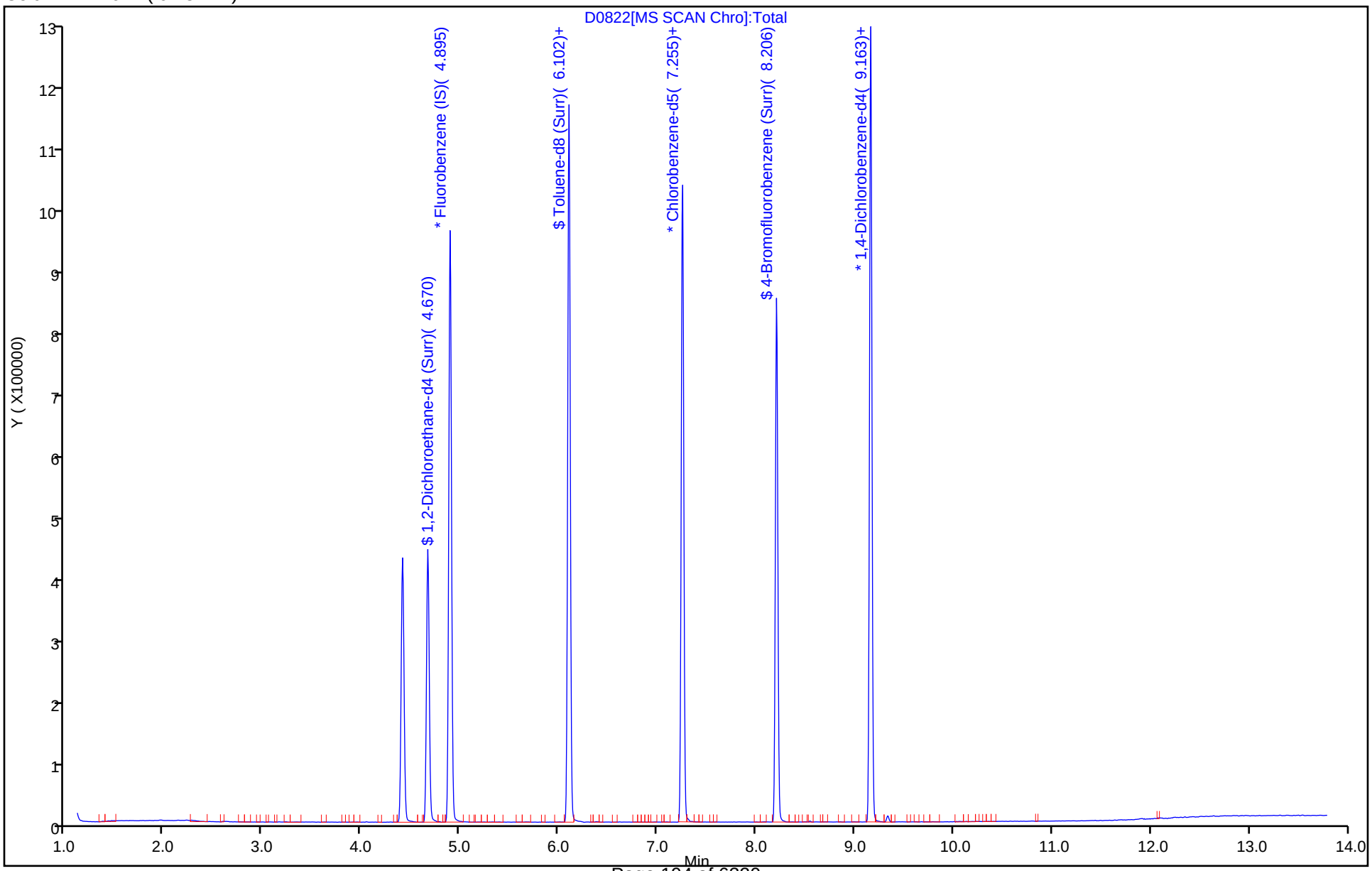
Report Date: 12-Jun-2022 17:23:39 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0822.D

Injection Date:	12-Jun-2022 03:38:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-198720-A-5	Lab Sample ID:	480-198720-5	Worklist Smp#:	16
Client ID:	TRIP BLANK 1				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	46
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0822.D
Lims ID: 480-198720-A-5
Client ID: TRIP BLANK 1
Sample Type: Client
Inject. Date: 12-Jun-2022 03:38:30 ALS Bottle#: 46 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198720-A-5
Misc. Info.: 480-0106025-016
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 12-Jun-2022 17:23:39 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: lapointec Date: 12-Jun-2022 17:23:39

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	25.7	102.97
$ 5 Toluene-d8 (Surr)	25.0	23.5	94.13
$ 6 4-Bromofluorobenzene (Surr)	25.0	26.3	105.33

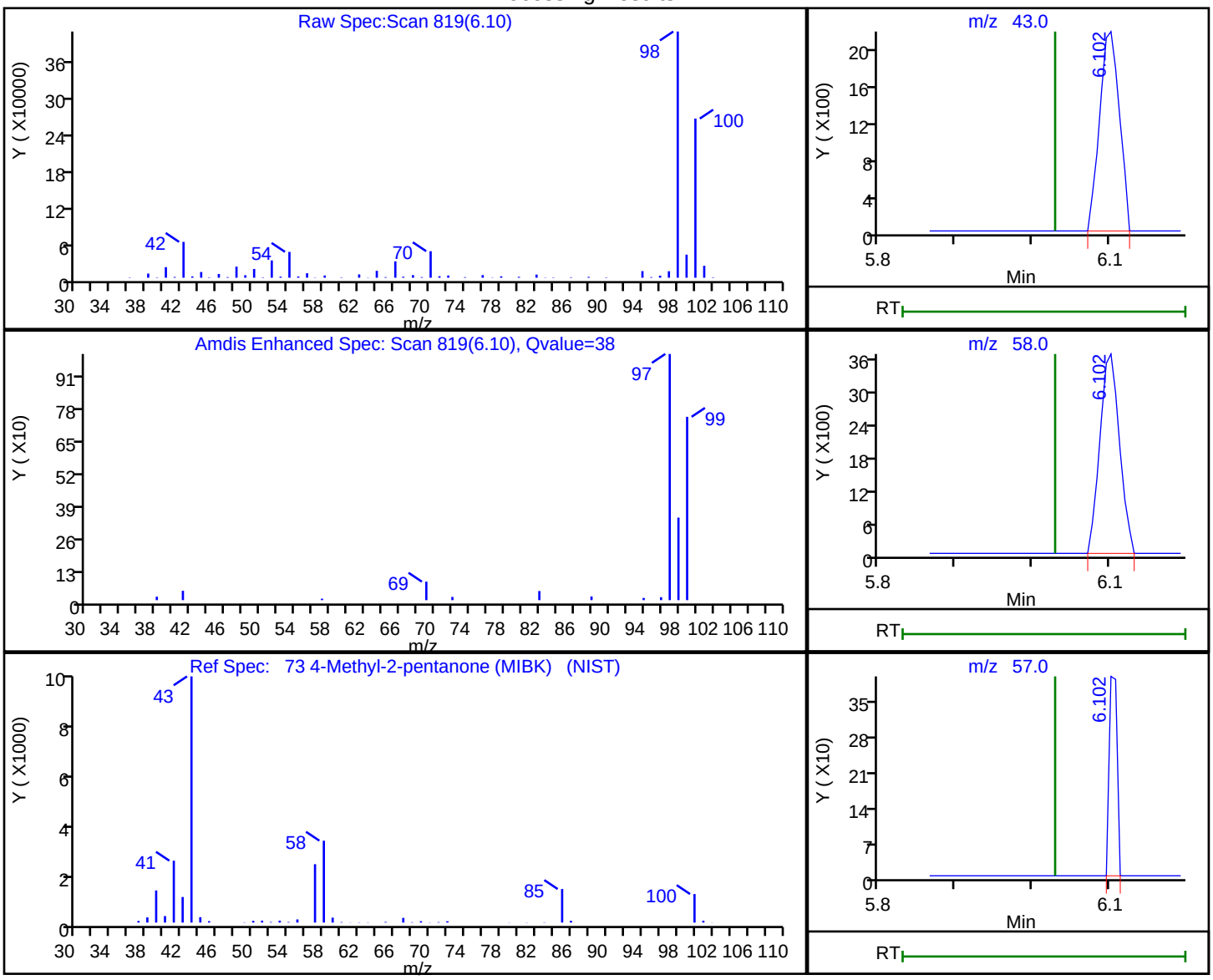
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0822.D				
Injection Date:	12-Jun-2022 03:38:30	Instrument ID:	HP5975D		
Lims ID:	480-198720-A-5	Lab Sample ID:	480-198720-5		
Client ID:	TRIP BLANK 1				
Operator ID:	AK	ALS Bottle#:	46	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

73 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.10	43.00	3906	0.343151
6.10	58.00	6422	
6.10	57.00	288	

Reviewer: lapointec, 12-Jun-2022 17:23:31

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-1A | Lab Sample ID: 480-198813-1

Matrix: Water | Lab File ID: N5627.D

Analysis Method: 8260C | Date Collected: 06/08/2022 10:15

Sample wt/vol: 5(mL) | Date Analyzed: 06/15/2022 22:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-1A | Lab Sample ID: 480-198813-1

Matrix: Water | Lab File ID: N5627.D

Analysis Method: 8260C | Date Collected: 06/08/2022 10:15

Sample wt/vol: 5(mL) | Date Analyzed: 06/15/2022 22:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	82		77-120
2037-26-5	Toluene-d8 (Surr)	91		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5627.D
Lims ID: 480-198813-M-1
Client ID: MW-1A
Sample Type: Client
Inject. Date: 15-Jun-2022 22:08:30 ALS Bottle#: 31 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198813-M-1
Misc. Info.: 480-0106089-011
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2022 11:05:57 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: RepkaC Date: 16-Jun-2022 11:05:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.241	5.241	0.000	97	211959	25.0	
* 2 Chlorobenzene-d5	117	8.222	8.222	0.000	90	766038	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.637	10.637	0.000	97	359569	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.973	4.973	0.000	97	304297	20.4	
$ 6 Toluene-d8 (Surr)	98	6.743	6.743	0.000	94	871689	22.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.481	9.481	0.000	90	293260	23.4	
13 Chloromethane	50		1.372				ND	
14 Vinyl chloride	62		1.463				ND	
15 Bromomethane	94		1.761				ND	
16 Chloroethane	64		1.822				ND	
18 Trichlorofluoromethane	101		2.047				ND	
22 1,1-Dichloroethene	96		2.509				ND	
23 Acetone	43		2.631				ND	
24 Iodomethane	142		2.667				ND	
25 Carbon disulfide	76		2.698				ND	
30 Methylene Chloride	84		3.014				ND	
33 trans-1,2-Dichloroethene	96		3.239				ND	
34 Acrylonitrile	53		3.300				ND	
36 1,1-Dichloroethane	63		3.653				ND	
39 Vinyl acetate	43		3.708				ND	
43 cis-1,2-Dichloroethene	96		4.200				ND	
44 2-Butanone (MEK)	43		4.237				ND	U
47 Chlorobromomethane	128		4.432				ND	
50 Chloroform	83		4.511				ND	
51 1,1,1-Trichloroethane	97		4.620				ND	
53 Carbon tetrachloride	117		4.760				ND	
55 Benzene	78		4.973				ND	
57 1,2-Dichloroethane	62		5.040				ND	
60 Trichloroethene	95		5.581				ND	
63 1,2-Dichloropropane	63		5.819				ND	
64 Dibromomethane	93		5.953				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
67 Dichlorobromomethane	83		6.111				ND	
71 cis-1,3-Dichloropropene	75		6.524				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.676				ND	
73 Toluene	92		6.810				ND	
75 trans-1,3-Dichloropropene	75		7.096				ND	
78 1,1,2-Trichloroethane	83		7.285				ND	
79 Tetrachloroethene	166		7.340				ND	
82 2-Hexanone	43		7.510				ND	
83 Chlorodibromomethane	129		7.674				ND	
84 Ethylene Dibromide	107		7.778				ND	
85 Chlorobenzene	112		8.252				ND	
88 Ethylbenzene	91		8.349				ND	
89 1,1,1,2-Tetrachloroethane	131		8.349				ND	
90 m-Xylene & p-Xylene	106		8.471				ND	
91 o-Xylene	106		8.897				ND	
92 Styrene	104		8.927				ND	
93 Bromoform	173		9.171				ND	
98 1,1,2,2-Tetrachloroethane	83		9.700				ND	
99 1,2,3-Trichloropropane	110		9.724				ND	
101 trans-1,4-Dichloro-2-butene	53		9.743				ND	
113 1,4-Dichlorobenzene	146		10.661				ND	
116 1,2-Dichlorobenzene	146		11.014				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.750				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

N_8260_Surr_00440	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00232	Amount Added:	1.00	Units: uL	Run Reagent

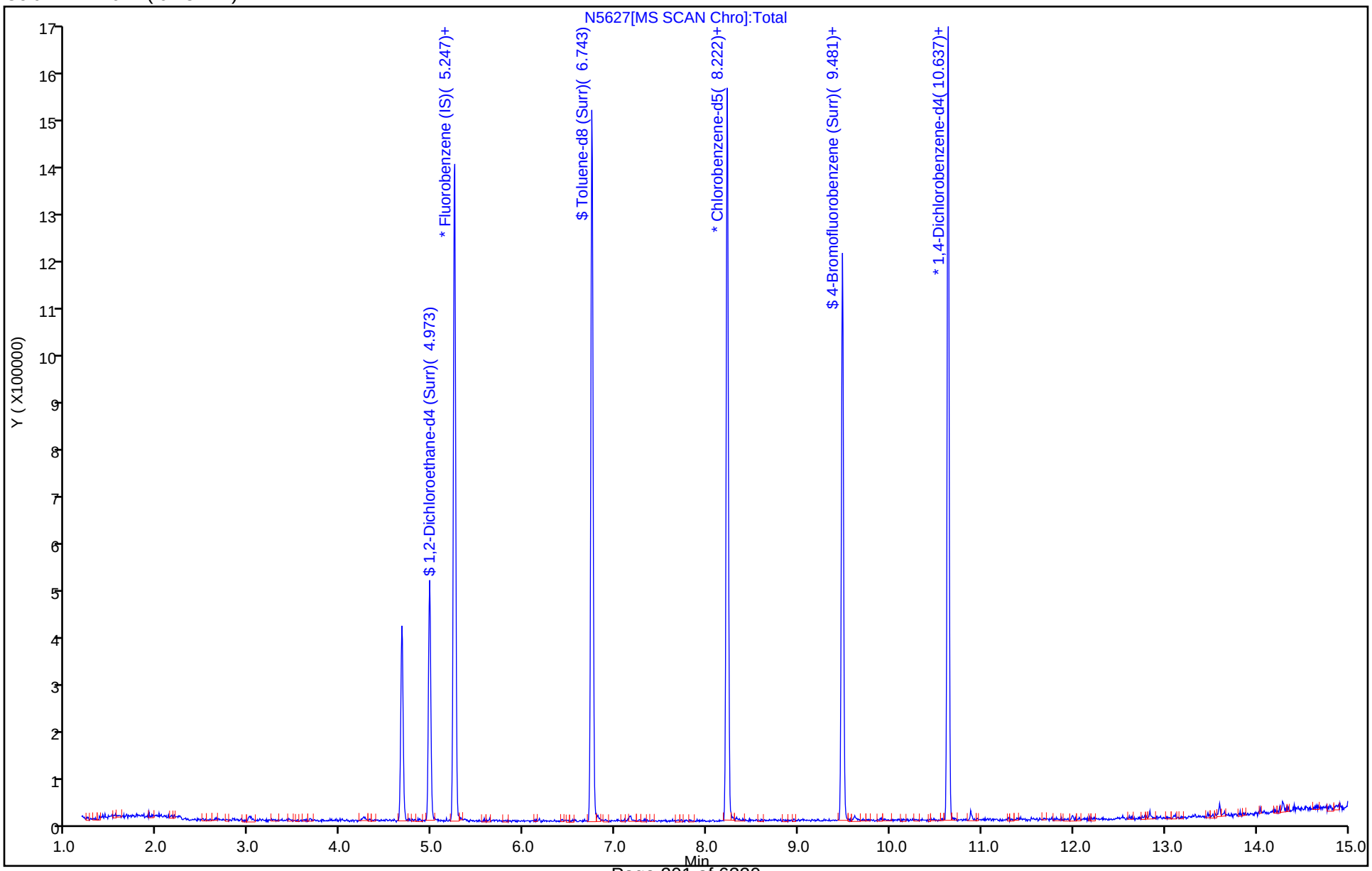
Report Date: 16-Jun-2022 11:05:58 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5627.D

Injection Date:	15-Jun-2022 22:08:30	Instrument ID:	HP5973N	Operator ID:	CR/AK
Lims ID:	480-198813-M-1	Lab Sample ID:	480-198813-1	Worklist Smp#:	11
Client ID:	MW-1A				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5627.D
Lims ID: 480-198813-M-1
Client ID: MW-1A
Sample Type: Client
Inject. Date: 15-Jun-2022 22:08:30 ALS Bottle#: 31 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198813-M-1
Misc. Info.: 480-0106089-011
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2022 11:05:57 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: RepkaC Date: 16-Jun-2022 11:05:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	20.4	81.57
$ 6 Toluene-d8 (Surr)	25.0	22.6	90.51
$ 7 4-Bromofluorobenzene (Surr)	25.0	23.4	93.45

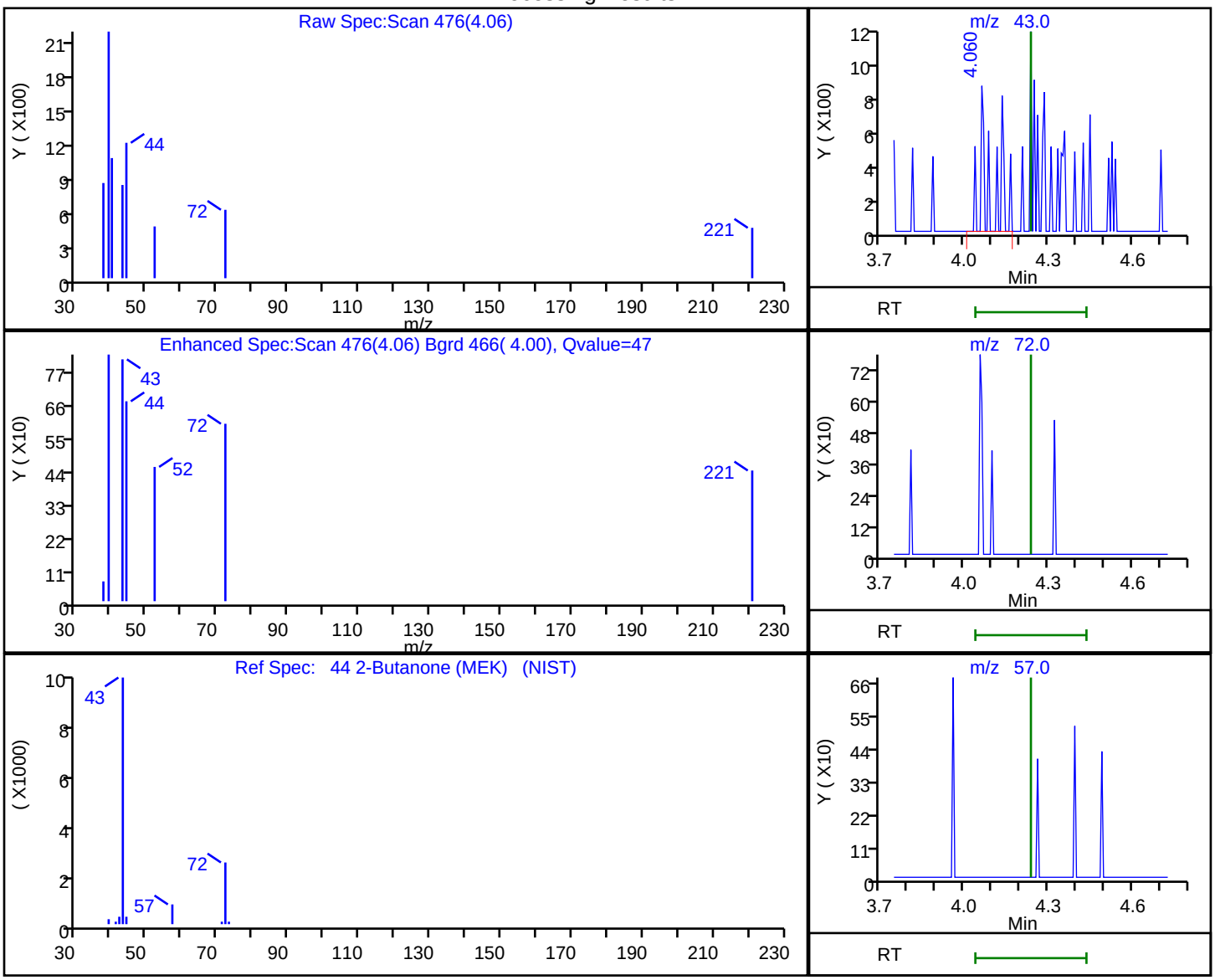
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5627.D				
Injection Date:	15-Jun-2022 22:08:30	Instrument ID:	HP5973N		
Lims ID:	480-198813-M-1	Lab Sample ID:	480-198813-1		
Client ID:	MW-1A				
Operator ID:	CR/AK	ALS Bottle#:	31	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
4.06	43.00	1651	0.154355
4.24	72.00	0	
4.24	57.00	0	

Reviewer: RepkaC, 16-Jun-2022 11:05:43

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-2A | Lab Sample ID: 480-198813-2

Matrix: Water | Lab File ID: N5628.D

Analysis Method: 8260C | Date Collected: 06/08/2022 10:45

Sample wt/vol: 5(mL) | Date Analyzed: 06/15/2022 22:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	1.1		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	1.7		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-2A | Lab Sample ID: 480-198813-2

Matrix: Water | Lab File ID: N5628.D

Analysis Method: 8260C | Date Collected: 06/08/2022 10:45

Sample wt/vol: 5(mL) | Date Analyzed: 06/15/2022 22:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		77-120
2037-26-5	Toluene-d8 (Surr)	92		80-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5628.D
Lims ID: 480-198813-M-2
Client ID: MW-2A
Sample Type: Client
Inject. Date: 15-Jun-2022 22:31:30 ALS Bottle#: 32 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198813-M-2
Misc. Info.: 480-0106089-012
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2022 11:07:04 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: RepkaC Date: 16-Jun-2022 11:07:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.247	5.241	0.006	97	215823	25.0	
* 2 Chlorobenzene-d5	117	8.221	8.222	-0.001	90	740678	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.637	10.637	0.000	97	394717	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.973	4.973	0.000	97	321522	21.2	
$ 6 Toluene-d8 (Surr)	98	6.743	6.743	0.000	94	855457	23.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.481	9.481	0.000	94	319276	26.3	
13 Chloromethane	50		1.372				ND	
14 Vinyl chloride	62		1.463				ND	
15 Bromomethane	94		1.761				ND	
16 Chloroethane	64		1.822				ND	U
18 Trichlorofluoromethane	101		2.047				ND	
22 1,1-Dichloroethene	96		2.509				ND	
23 Acetone	43	2.637	2.637	0.006	98	10247	1.40	a
24 Iodomethane	142		2.667				ND	
25 Carbon disulfide	76		2.698				ND	
30 Methylene Chloride	84		3.014				ND	
33 trans-1,2-Dichloroethene	96		3.239				ND	
34 Acrylonitrile	53		3.300				ND	
36 1,1-Dichloroethane	63		3.653				ND	7
39 Vinyl acetate	43		3.708				ND	
43 cis-1,2-Dichloroethene	96		4.200				ND	
44 2-Butanone (MEK)	43		4.237				ND	U
47 Chlorobromomethane	128		4.432				ND	
50 Chloroform	83		4.511				ND	
51 1,1,1-Trichloroethane	97		4.620				ND	
53 Carbon tetrachloride	117		4.760				ND	
55 Benzene	78	4.973	4.973	0.000	46	41267	0.8558	
57 1,2-Dichloroethane	62		5.040				ND	
60 Trichloroethene	95		5.581				ND	
63 1,2-Dichloropropane	63		5.819				ND	
64 Dibromomethane	93		5.953				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
67 Dichlorobromomethane	83		6.111				ND	
71 cis-1,3-Dichloropropene	75		6.524				ND	
72 4-Methyl-2-pentanone (MIBK)	58	6.743	6.676	0.067	32	10834	1.42	
73 Toluene	92		6.810				ND	
75 trans-1,3-Dichloropropene	75		7.096				ND	
78 1,1,2-Trichloroethane	83		7.285				ND	
79 Tetrachloroethene	166		7.340				ND	
82 2-Hexanone	43		7.510				ND	
83 Chlorodibromomethane	129		7.674				ND	
84 Ethylene Dibromide	107		7.778				ND	
85 Chlorobenzene	112	8.258	8.252	0.006	91	56208	1.74	
88 Ethylbenzene	91		8.349				ND	
89 1,1,1,2-Tetrachloroethane	131		8.349				ND	
90 m-Xylene & p-Xylene	106		8.471				ND	
91 o-Xylene	106		8.897				ND	
92 Styrene	104		8.927				ND	
93 Bromoform	173		9.171				ND	
98 1,1,2,2-Tetrachloroethane	83		9.700				ND	
99 1,2,3-Trichloropropane	110		9.724				ND	
101 trans-1,4-Dichloro-2-butene	53		9.743				ND	7
113 1,4-Dichlorobenzene	146	10.655	10.661	-0.006	88	29484	1.08	
116 1,2-Dichlorobenzene	146	11.008	11.008	-0.006	25	3260	0.1243	a
117 1,2-Dibromo-3-Chloropropane	75		11.750				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected
- a - User Assigned ID

Reagents:

N_8260_Surr_00440	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00232	Amount Added:	1.00	Units: uL	Run Reagent

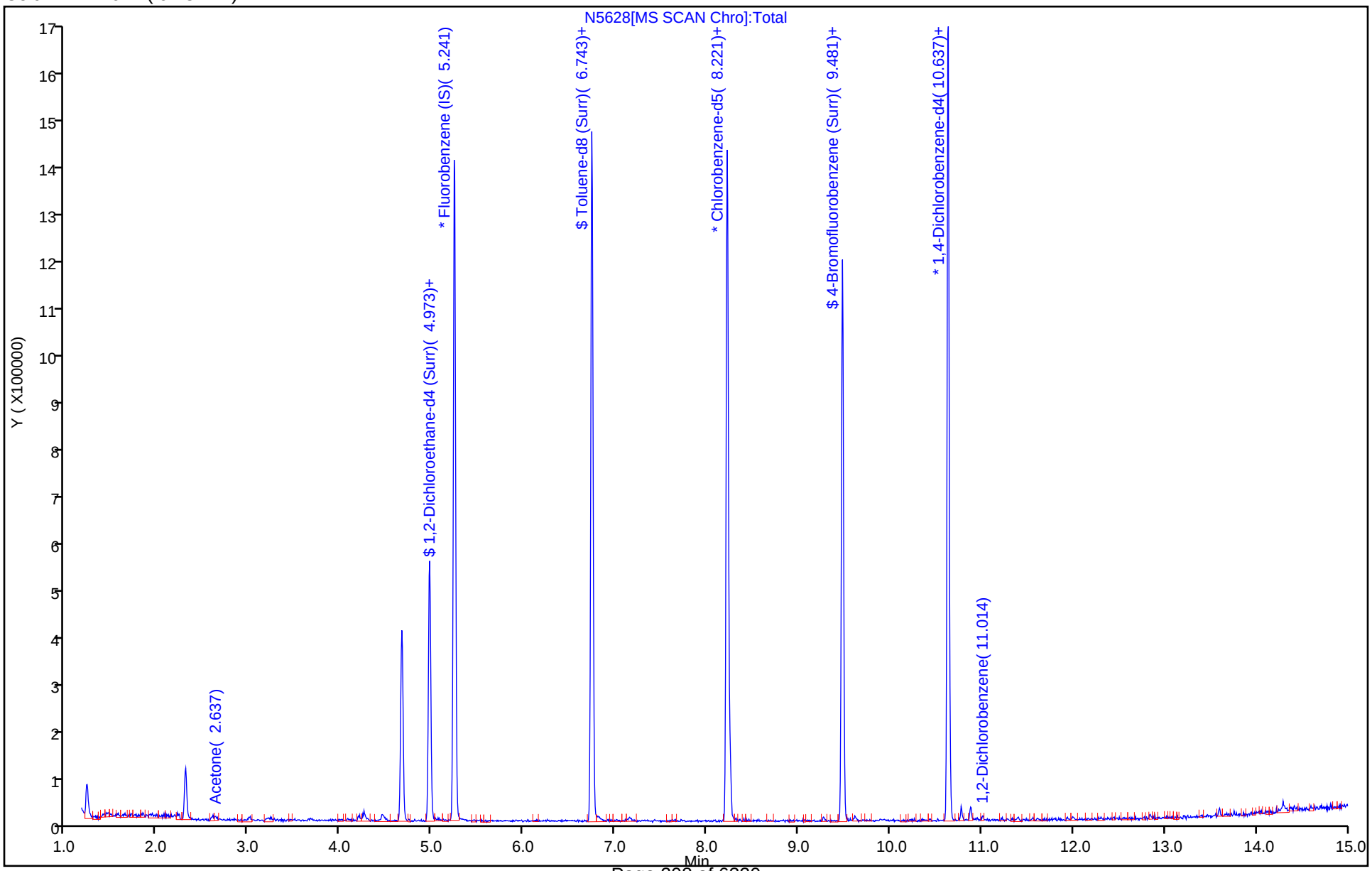
Report Date: 16-Jun-2022 11:07:04 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5628.D

Injection Date:	15-Jun-2022 22:31:30	Instrument ID:	HP5973N	Operator ID:	CR/AK
Lims ID:	480-198813-M-2	Lab Sample ID:	480-198813-2	Worklist Smp#:	12
Client ID:	MW-2A				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5628.D
Lims ID: 480-198813-M-2
Client ID: MW-2A
Sample Type: Client
Inject. Date: 15-Jun-2022 22:31:30 ALS Bottle#: 32 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198813-M-2
Misc. Info.: 480-0106089-012
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2022 11:07:04 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: RepkaC Date: 16-Jun-2022 11:07:04

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	21.2	84.64
$ 6 Toluene-d8 (Surr)	25.0	23.0	91.87
$ 7 4-Bromofluorobenzene (Surr)	25.0	26.3	105.23

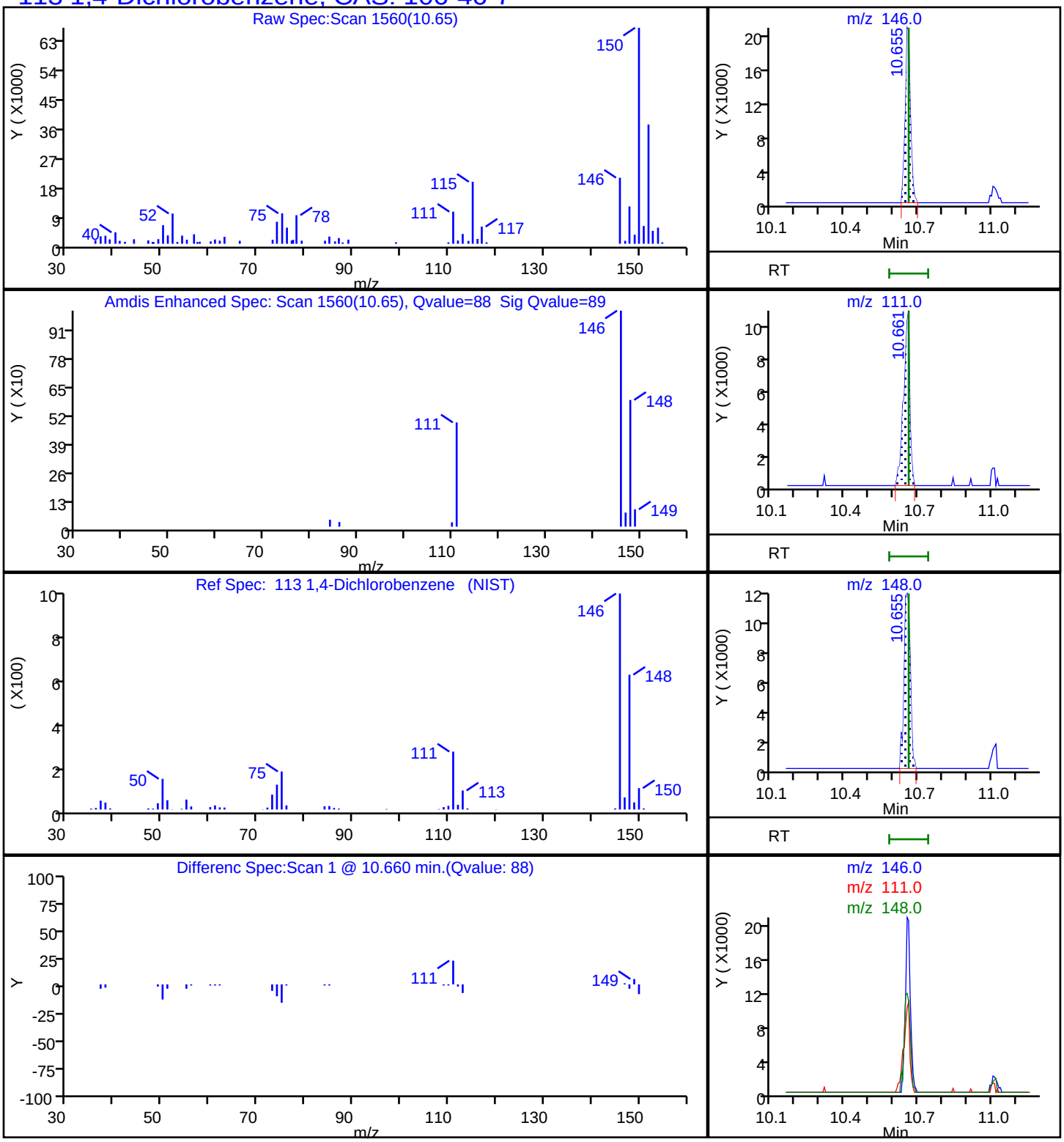
Report Date: 16-Jun-2022 11:07:04 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5628.D

Injection Date:	15-Jun-2022 22:31:30	Instrument ID:	HP5973N		
Lims ID:	480-198813-M-2	Lab Sample ID:	480-198813-2		
Client ID:	MW-2A				
Operator ID:	CR/AK	ALS Bottle#:	32	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

113 1,4-Dichlorobenzene, CAS: 106-46-7



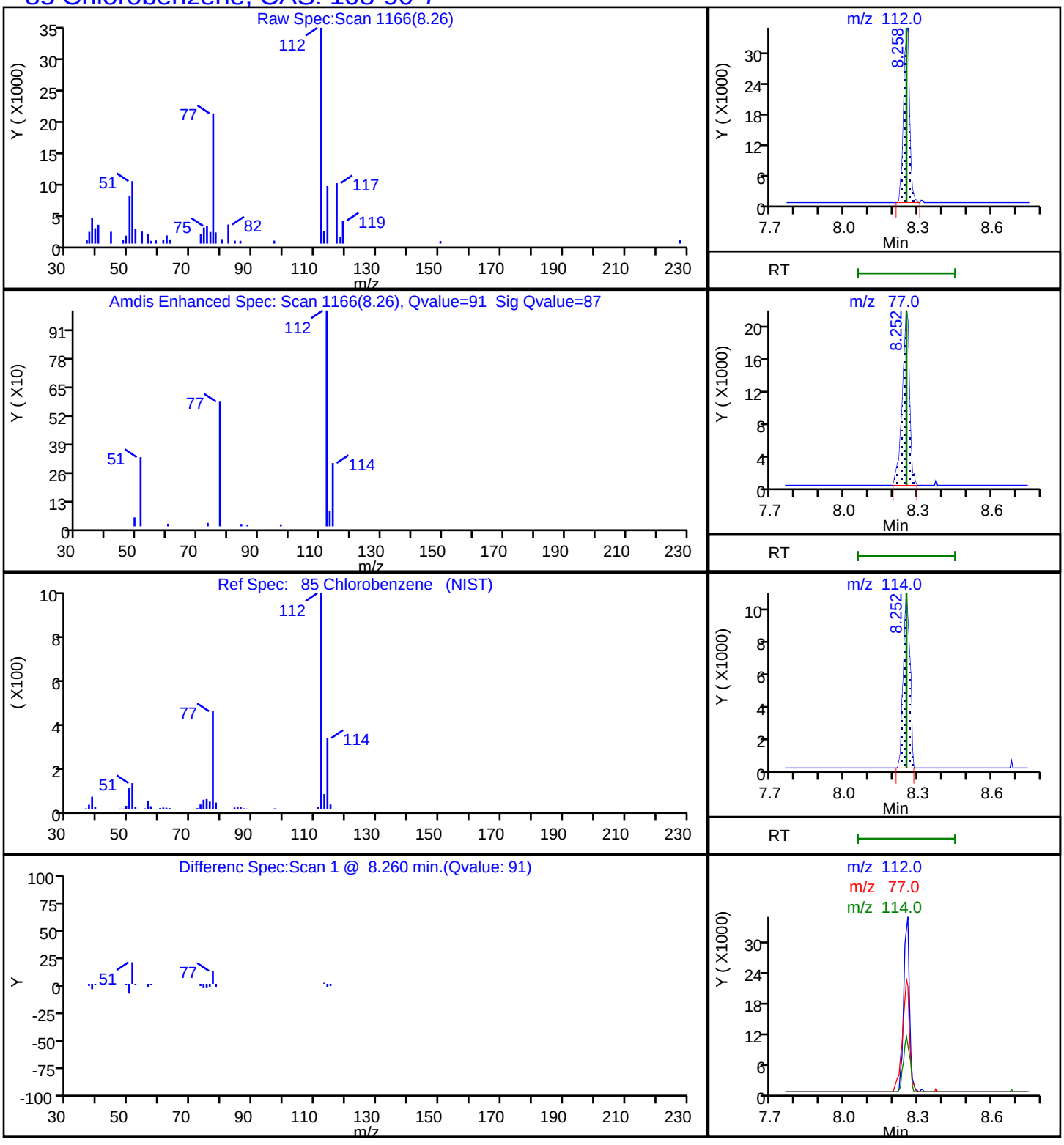
Report Date: 16-Jun-2022 11:07:04 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5628.D

Injection Date:	15-Jun-2022 22:31:30	Instrument ID:	HP5973N		
Lims ID:	480-198813-M-2	Lab Sample ID:	480-198813-2		
Client ID:	MW-2A				
Operator ID:	CR/AK	ALS Bottle#:	32	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

85 Chlorobenzene, CAS: 108-90-7



Manual Integration/User Assign Peak Report

Eurofins Buffalo

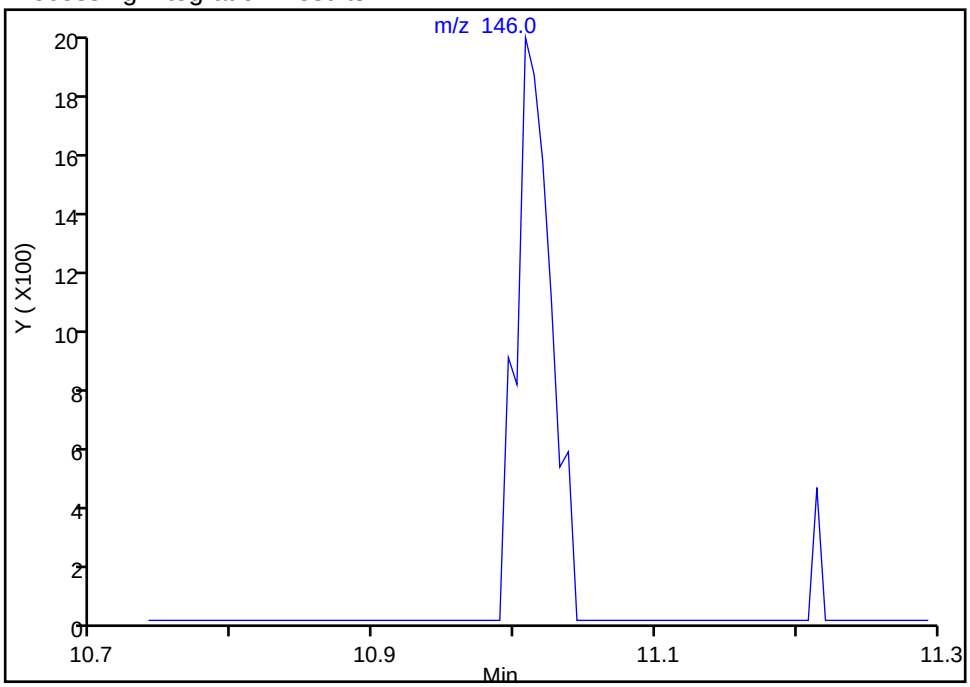
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5628.D				
Injection Date:	15-Jun-2022 22:31:30	Instrument ID:	HP5973N		
Lims ID:	480-198813-M-2	Lab Sample ID:	480-198813-2		
Client ID:	MW-2A				
Operator ID:	CR/AK	ALS Bottle#:	32	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

116 1,2-Dichlorobenzene, CAS: 95-50-1

Signal: 1

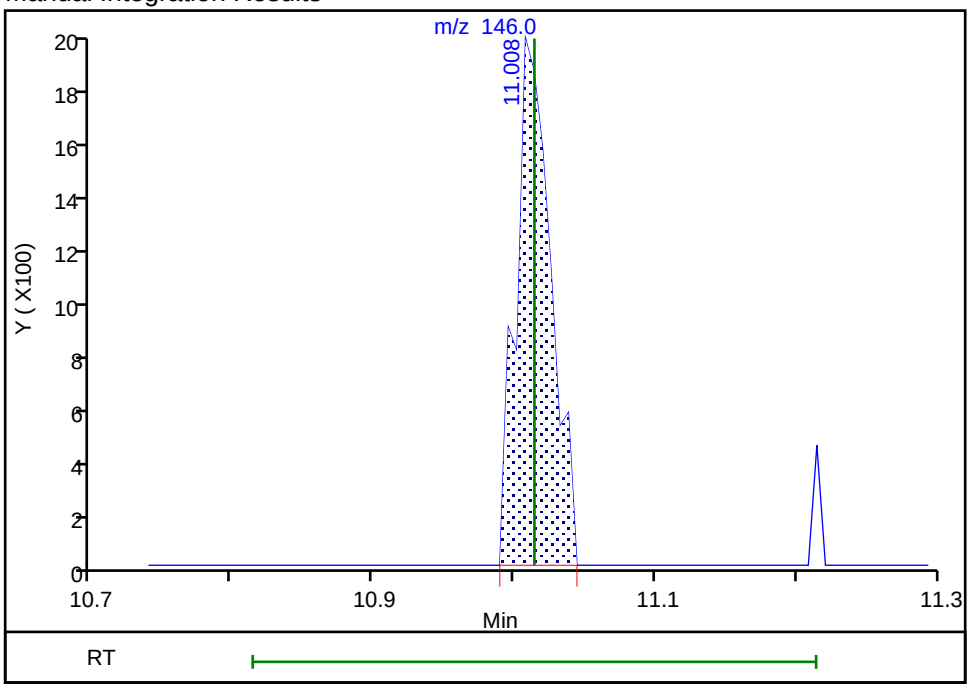
Not Detected
Expected RT: 11.01

Processing Integration Results



Manual Integration Results

RT: 11.01
Area: 3260
Amount: 0.124251
Amount Units: ug/L



Reviewer: RepkaC, 16-Jun-2022 11:06:57
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

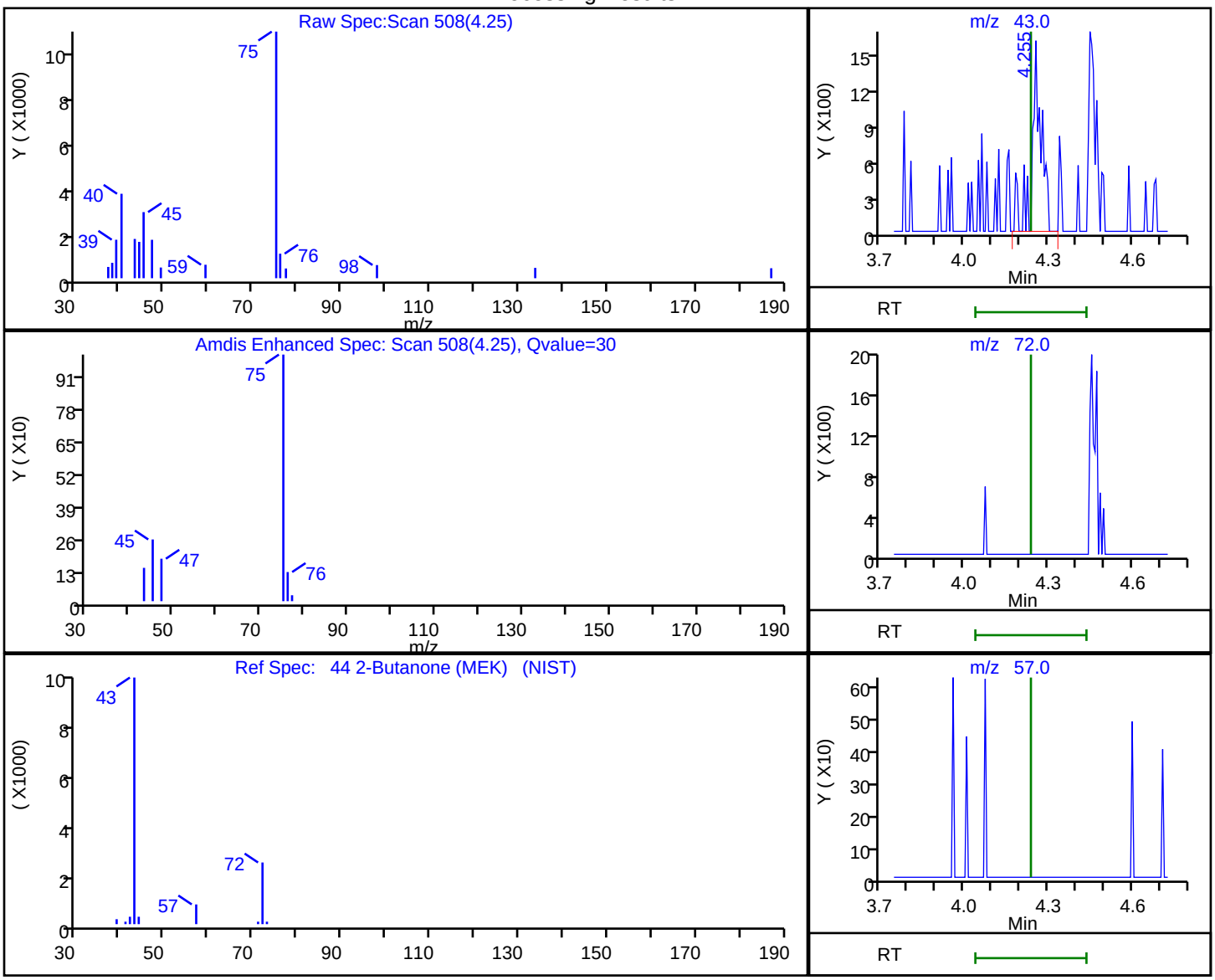
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5628.D				
Injection Date:	15-Jun-2022 22:31:30	Instrument ID:	HP5973N		
Lims ID:	480-198813-M-2	Lab Sample ID:	480-198813-2		
Client ID:	MW-2A				
Operator ID:	CR/AK	ALS Bottle#:	32	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
4.25	43.00	3762	0.345420
4.24	72.00	0	
4.24	57.00	0	

Reviewer: RepkaC, 16-Jun-2022 11:06:33

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

Manual Integration/User Assign Peak Report

Eurofins Buffalo

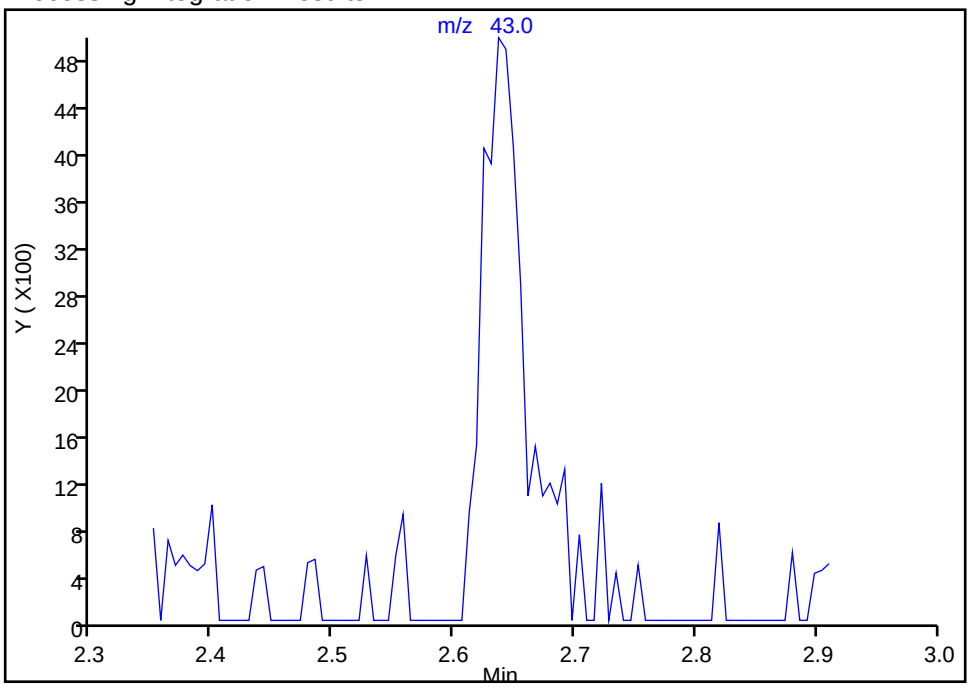
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5628.D				
Injection Date:	15-Jun-2022 22:31:30	Instrument ID:	HP5973N		
Lims ID:	480-198813-M-2	Lab Sample ID:	480-198813-2		
Client ID:	MW-2A				
Operator ID:	CR/AK	ALS Bottle#:	32	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

Signal: 1

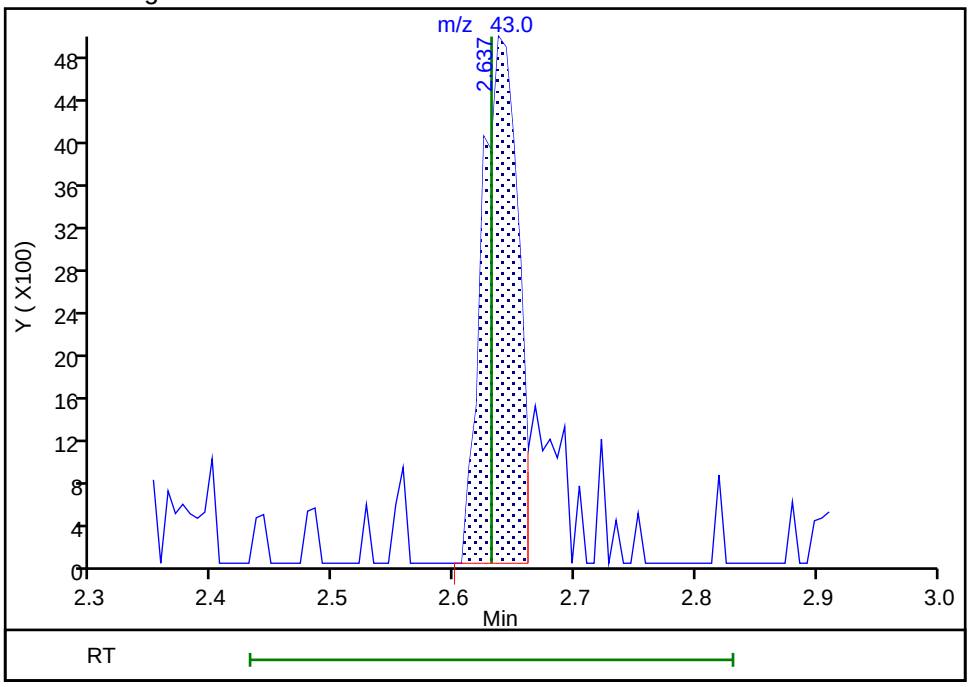
Not Detected
Expected RT: 2.63

Processing Integration Results



Manual Integration Results

RT: 2.64
Area: 10247
Amount: 1.404288
Amount Units: ug/L



Reviewer: RepkaC, 16-Jun-2022 11:06:24
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

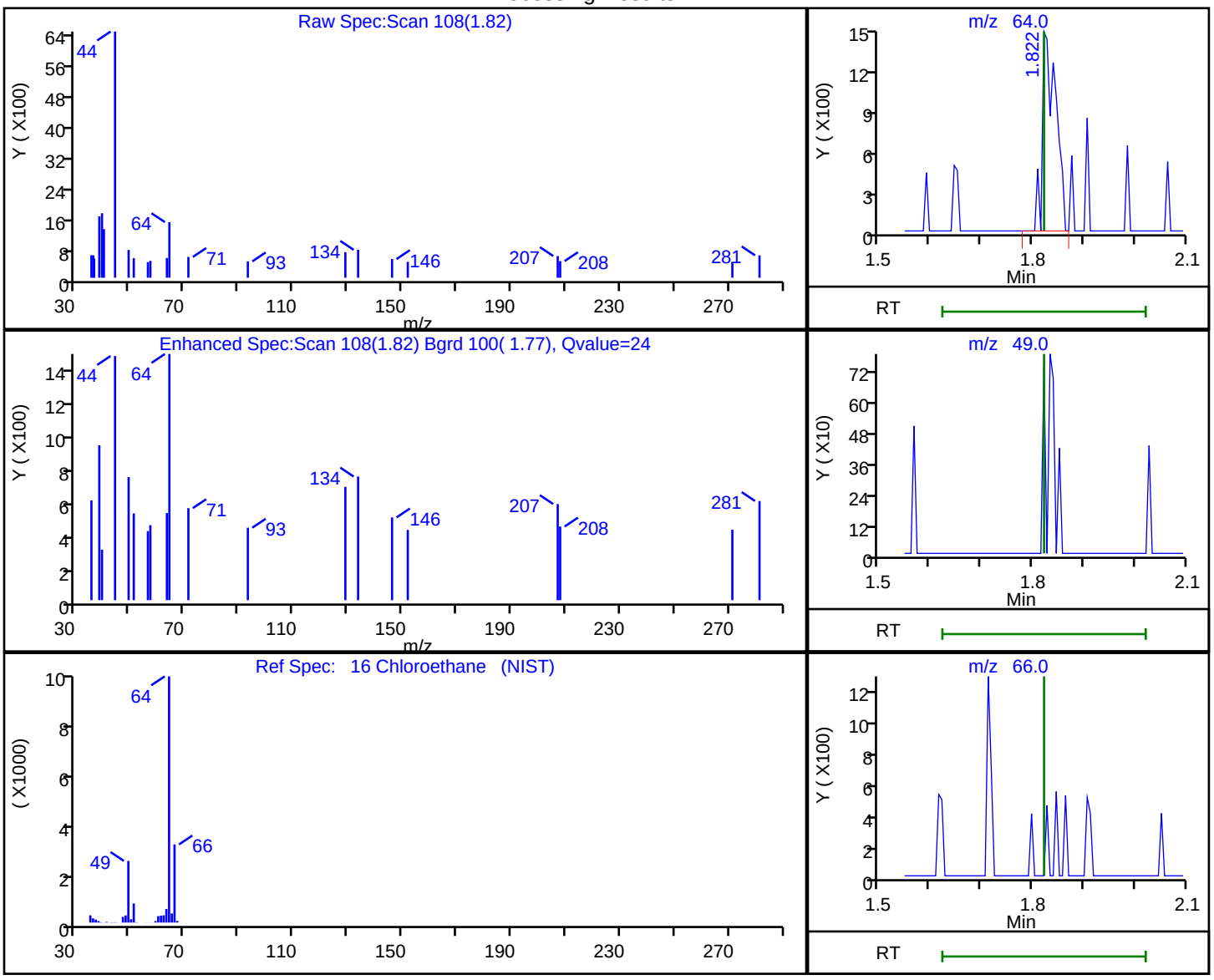
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5628.D				
Injection Date:	15-Jun-2022 22:31:30	Instrument ID:	HP5973N		
Lims ID:	480-198813-M-2	Lab Sample ID:	480-198813-2		
Client ID:	MW-2A				
Operator ID:	CR/AK	ALS Bottle#:	32	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

16 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
1.82	64.00	2718	0.322557
1.82	49.00	0	
1.82	66.00	0	

Reviewer: RepkaC, 16-Jun-2022 11:06:17

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-2B | Lab Sample ID: 480-198813-3

Matrix: Water | Lab File ID: N5629.D

Analysis Method: 8260C | Date Collected: 06/08/2022 11:15

Sample wt/vol: 5(mL) | Date Analyzed: 06/15/2022 22:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	3.9		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	40		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-2B | Lab Sample ID: 480-198813-3

Matrix: Water | Lab File ID: N5629.D

Analysis Method: 8260C | Date Collected: 06/08/2022 11:15

Sample wt/vol: 5(mL) | Date Analyzed: 06/15/2022 22:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	19		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		77-120
2037-26-5	Toluene-d8 (Surr)	93		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5629.D
Lims ID: 480-198813-M-3
Client ID: MW-2B
Sample Type: Client
Inject. Date: 15-Jun-2022 22:55:30 ALS Bottle#: 33 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198813-M-3
Misc. Info.: 480-0106089-013
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2022 11:08:26 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: RepkaC Date: 16-Jun-2022 11:08:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.241	5.241	0.000	97	212174	25.0	
* 2 Chlorobenzene-d5	117	8.222	8.222	0.000	91	745849	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.637	10.637	0.000	96	409615	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.973	4.973	0.000	97	318092	21.3	
$ 6 Toluene-d8 (Surr)	98	6.743	6.743	0.000	94	874099	23.3	
$ 7 4-Bromofluorobenzene (Surr)	174	9.481	9.481	0.000	89	309313	25.3	
13 Chloromethane	50	1.384	1.372	0.012	37	6170	0.3218	
14 Vinyl chloride	62	1.463	1.463	0.000	97	223481	19.2	
15 Bromomethane	94		1.761				ND	
16 Chloroethane	64	1.828	1.822	0.006	91	32325	3.90	
18 Trichlorofluoromethane	101		2.047				ND	
22 1,1-Dichloroethene	96		2.509				ND	
23 Acetone	43	2.643	2.637	0.012	64	5218	0.7274	
24 Iodomethane	142		2.667				ND	7
25 Carbon disulfide	76		2.698				ND	
30 Methylene Chloride	84		3.014				ND	
33 trans-1,2-Dichloroethene	96	3.239	3.239	0.000	87	3518	0.3323	Ma
34 Acrylonitrile	53		3.300				ND	
36 1,1-Dichloroethane	63	3.647	3.653	-0.006	93	8581	0.3418	
39 Vinyl acetate	43		3.708				ND	7
43 cis-1,2-Dichloroethene	96	4.200	4.200	0.000	86	479851	39.7	
44 2-Butanone (MEK)	43		4.237				ND	
47 Chlorobromomethane	128		4.432				ND	
50 Chloroform	83		4.511				ND	
51 1,1,1-Trichloroethane	97		4.620				ND	
53 Carbon tetrachloride	117		4.760				ND	
55 Benzene	78	4.973	4.973	0.000	43	28639	0.6042	
57 1,2-Dichloroethane	62		5.040				ND	
60 Trichloroethene	95		5.581				ND	
63 1,2-Dichloropropane	63		5.819				ND	
64 Dibromomethane	93		5.953				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
67 Dichlorobromomethane	83		6.111				ND	
71 cis-1,3-Dichloropropene	75		6.524				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.676				ND	U
73 Toluene	92		6.810				ND	
75 trans-1,3-Dichloropropene	75		7.096				ND	
78 1,1,2-Trichloroethane	83		7.285				ND	
79 Tetrachloroethene	166		7.340				ND	
82 2-Hexanone	43		7.510				ND	
83 Chlorodibromomethane	129		7.674				ND	
84 Ethylene Dibromide	107		7.778				ND	
85 Chlorobenzene	112	8.252	8.252	0.000	90	19320	0.5934	
88 Ethylbenzene	91		8.349				ND	
89 1,1,1,2-Tetrachloroethane	131		8.349				ND	
90 m-Xylene & p-Xylene	106		8.471				ND	
91 o-Xylene	106		8.897				ND	
92 Styrene	104		8.927				ND	
93 Bromoform	173		9.171				ND	
98 1,1,2,2-Tetrachloroethane	83		9.700				ND	
99 1,2,3-Trichloropropane	110		9.724				ND	
101 trans-1,4-Dichloro-2-butene	53		9.743				ND	
113 1,4-Dichlorobenzene	146		10.661				ND	
116 1,2-Dichlorobenzene	146		11.014				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.750				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected
- a - User Assigned ID

Reagents:

N_8260_Surr_00440	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00232	Amount Added:	1.00	Units: uL	Run Reagent

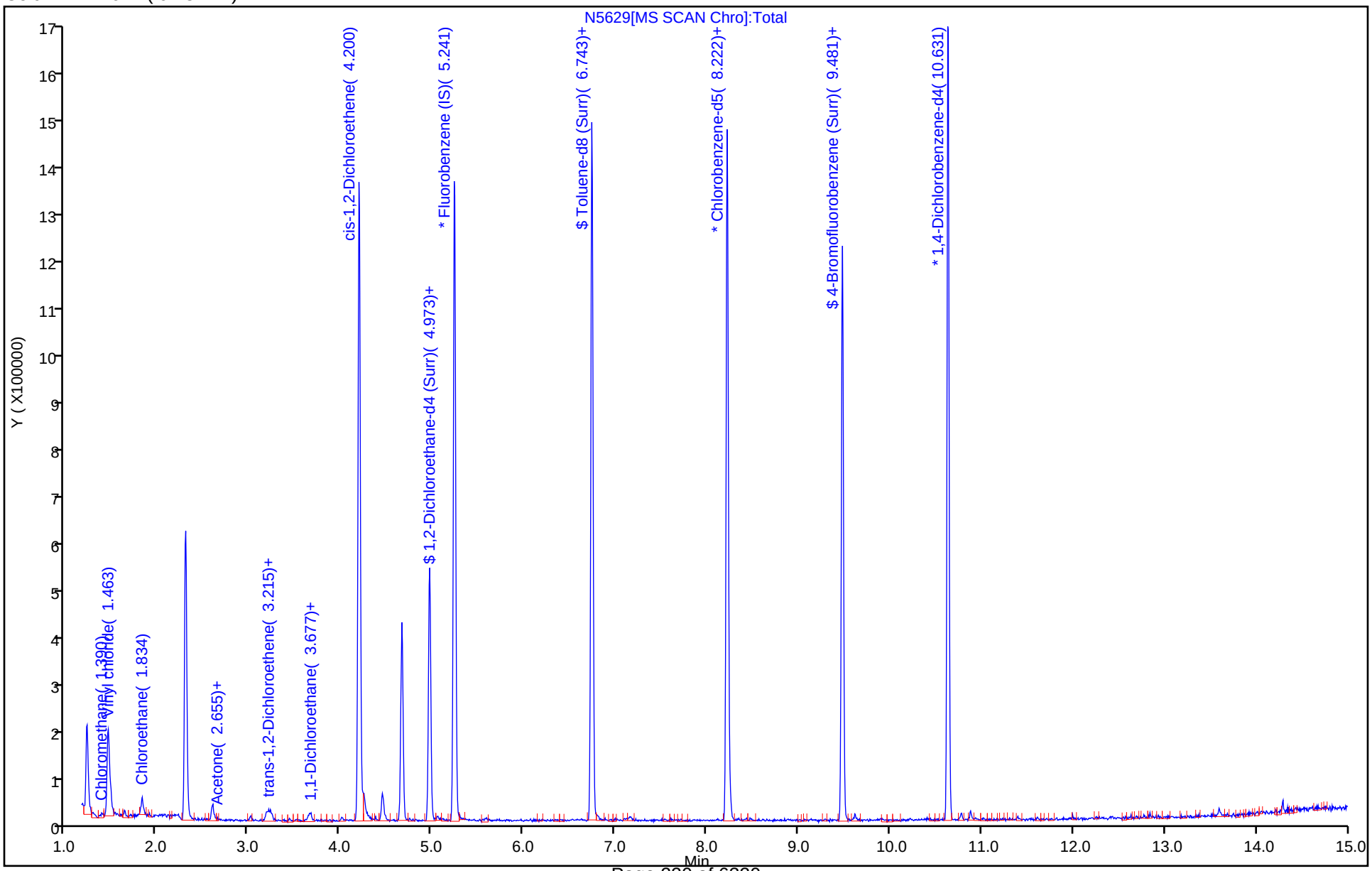
Report Date: 16-Jun-2022 11:08:26 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5629.D

Injection Date:	15-Jun-2022 22:55:30	Instrument ID:	HP5973N	Operator ID:	CR/AK
Lims ID:	480-198813-M-3	Lab Sample ID:	480-198813-3	Worklist Smp#:	13
Client ID:	MW-2B				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5629.D
Lims ID: 480-198813-M-3
Client ID: MW-2B
Sample Type: Client
Inject. Date: 15-Jun-2022 22:55:30 ALS Bottle#: 33 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198813-M-3
Misc. Info.: 480-0106089-013
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2022 11:08:26 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: RepkaC Date: 16-Jun-2022 11:08:26

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	21.3	85.18
$ 6 Toluene-d8 (Surr)	25.0	23.3	93.22
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.3	101.24

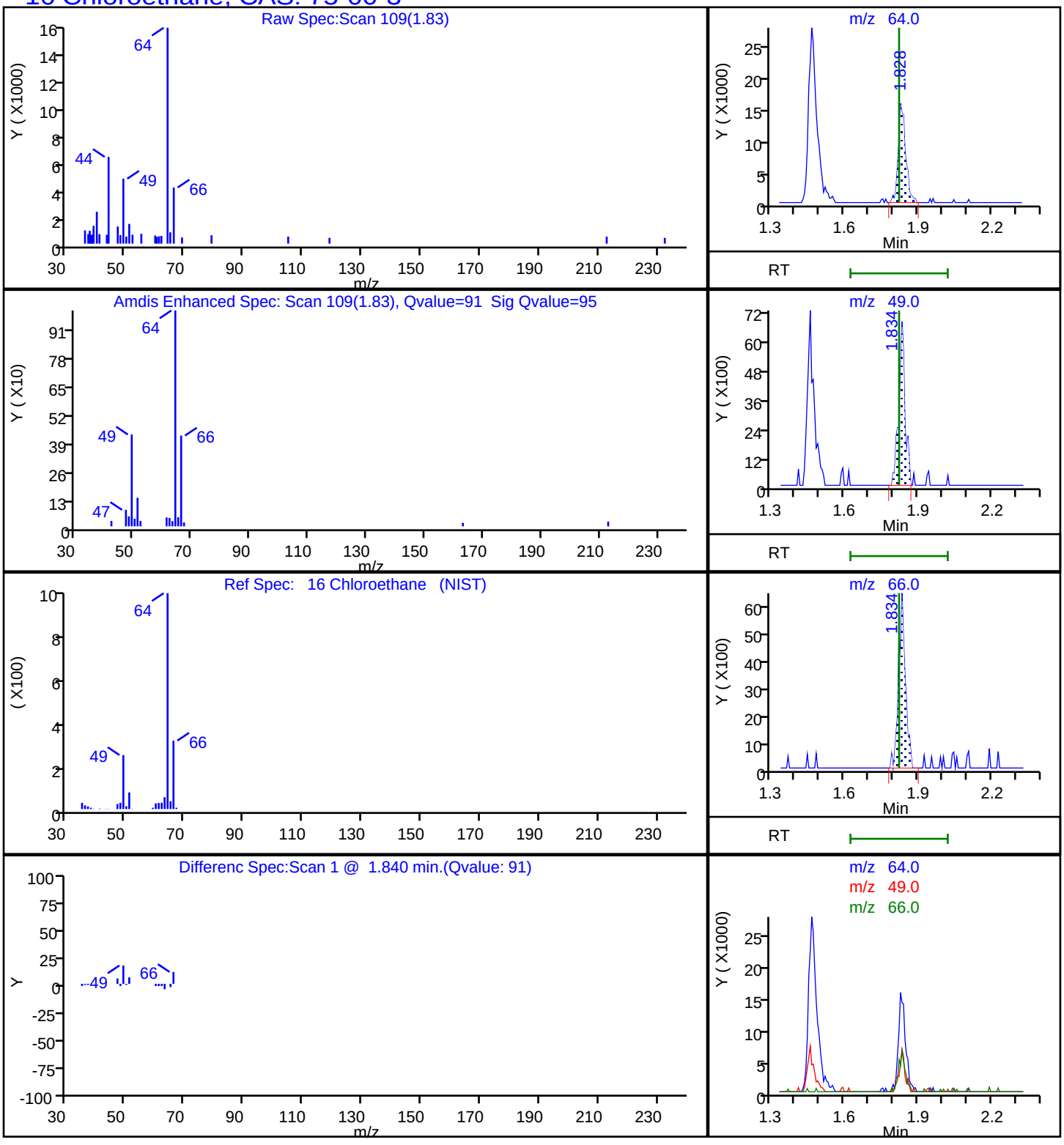
Report Date: 16-Jun-2022 11:08:26 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5629.D

Injection Date:	15-Jun-2022 22:55:30	Instrument ID:	HP5973N
Lims ID:	480-198813-M-3	Lab Sample ID:	480-198813-3
Client ID:	MW-2B		
Operator ID:	CR/AK	ALS Bottle#:	33 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

16 Chloroethane, CAS: 75-00-3



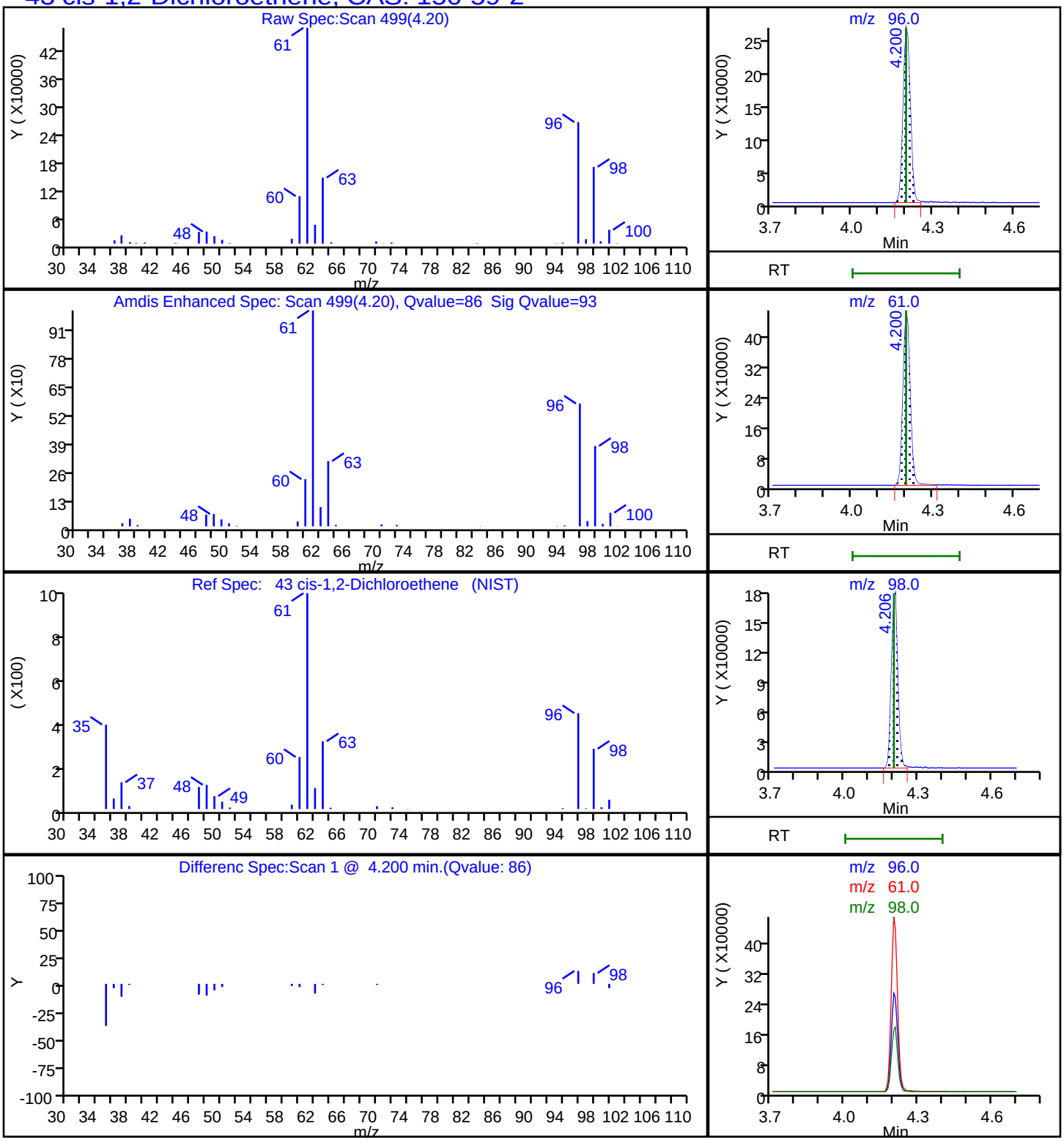
Report Date: 16-Jun-2022 11:08:27 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5629.D

Injection Date:	15-Jun-2022 22:55:30	Instrument ID:	HP5973N		
Lims ID:	480-198813-M-3	Lab Sample ID:	480-198813-3		
Client ID:	MW-2B				
Operator ID:	CR/AK	ALS Bottle#:	33	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

43 cis-1,2-Dichloroethene, CAS: 156-59-2



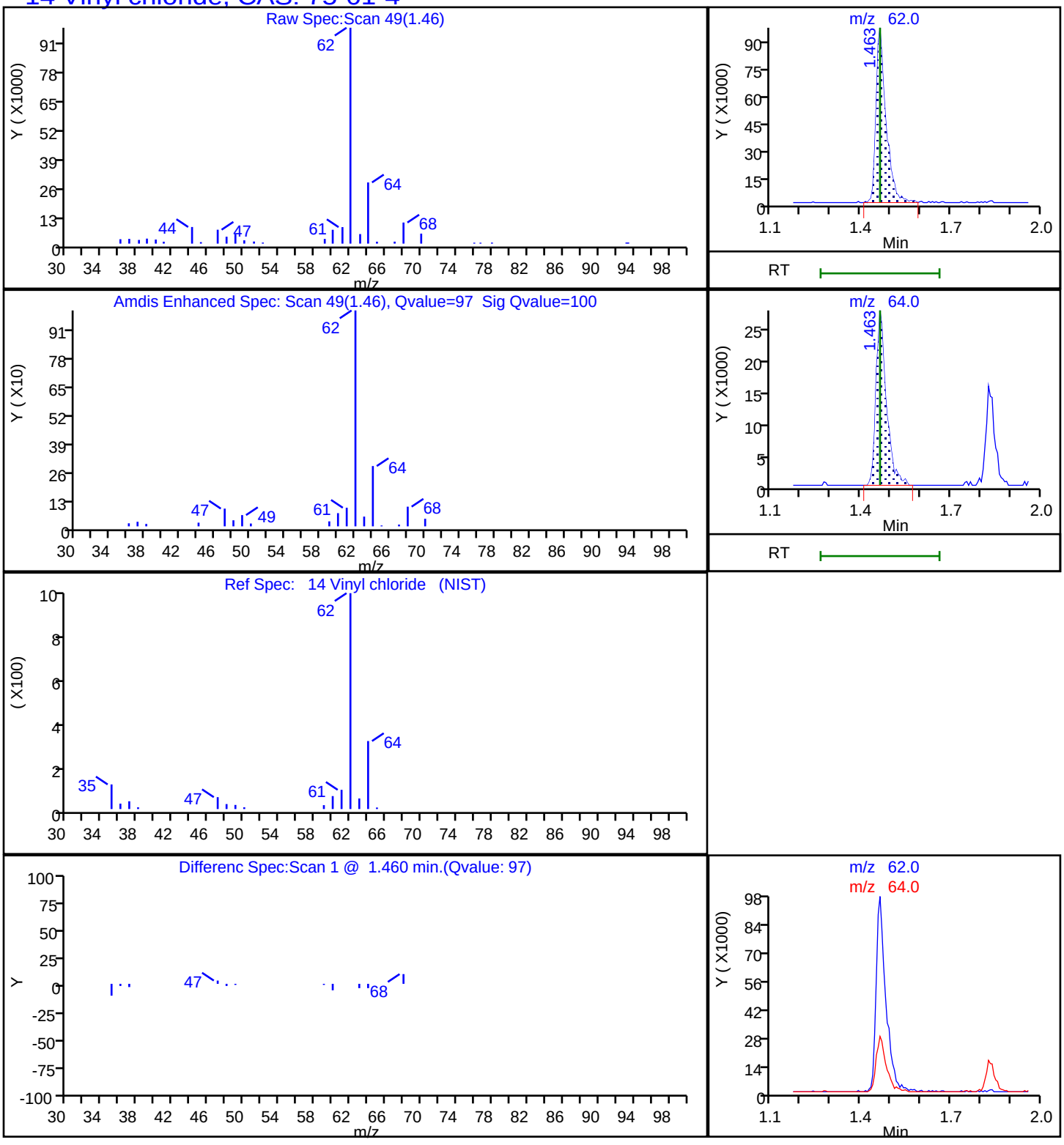
Report Date: 16-Jun-2022 11:08:26 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5629.D

Injection Date:	15-Jun-2022 22:55:30	Instrument ID:	HP5973N		
Lims ID:	480-198813-M-3	Lab Sample ID:	480-198813-3		
Client ID:	MW-2B				
Operator ID:	CR/AK	ALS Bottle#:	33	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

14 Vinyl chloride, CAS: 75-01-4



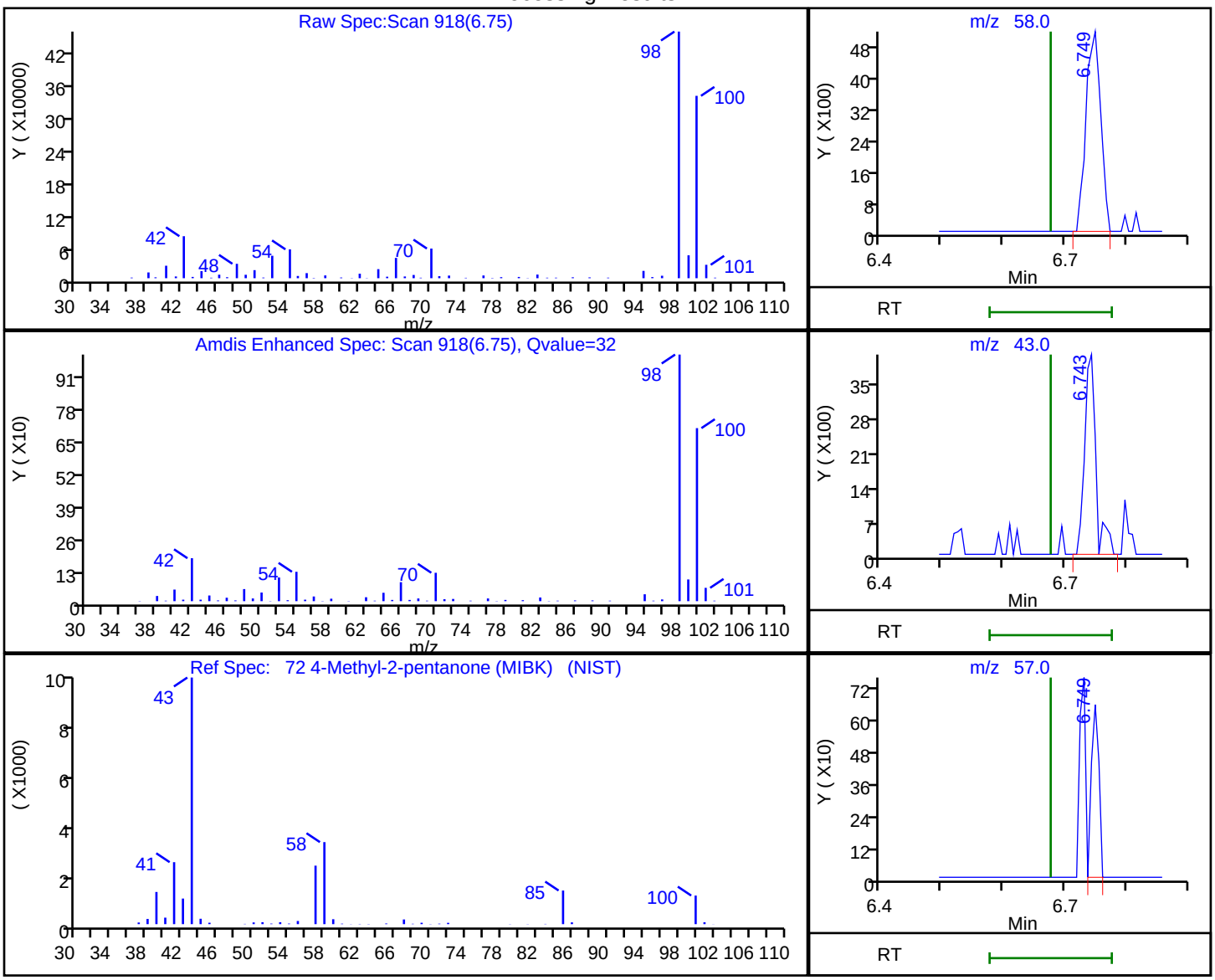
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5629.D				
Injection Date:	15-Jun-2022 22:55:30	Instrument ID:	HP5973N		
Lims ID:	480-198813-M-3	Lab Sample ID:	480-198813-3		
Client ID:	MW-2B				
Operator ID:	CR/AK	ALS Bottle#:	33	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.75	58.00	8627	1.121967
6.74	43.00	5184	
6.75	57.00	554	

Reviewer: RepkaC, 16-Jun-2022 11:08:08

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

Manual Integration/User Assign Peak Report

Eurofins Buffalo

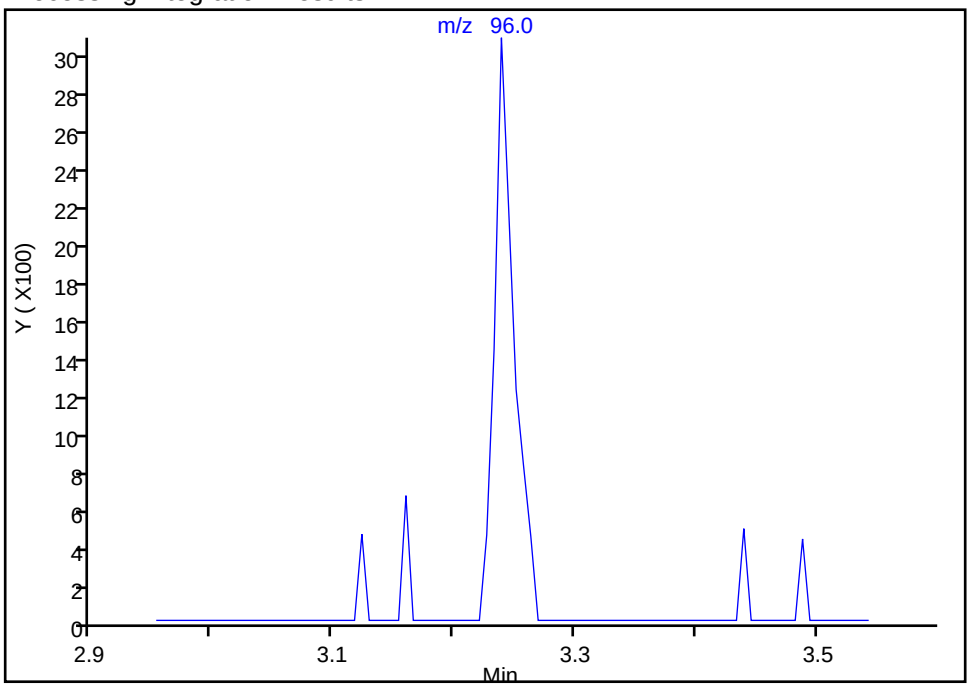
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5629.D				
Injection Date:	15-Jun-2022 22:55:30	Instrument ID:	HP5973N		
Lims ID:	480-198813-M-3	Lab Sample ID:	480-198813-3		
Client ID:	MW-2B				
Operator ID:	CR/AK	ALS Bottle#:	33	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

33 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

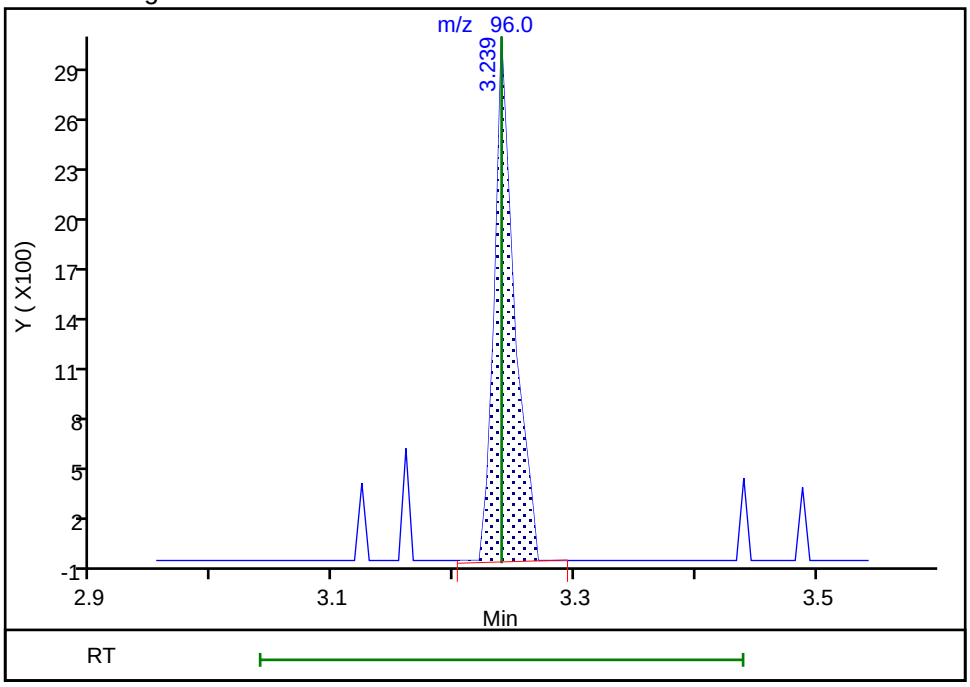
Not Detected
Expected RT: 3.24

Processing Integration Results



Manual Integration Results

RT: 3.24
Area: 3518
Amount: 0.332293
Amount Units: ug/L



Reviewer: RepkaC, 16-Jun-2022 11:07:46
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-3A | Lab Sample ID: 480-198813-4

Matrix: Water | Lab File ID: N5630.D

Analysis Method: 8260C | Date Collected: 06/08/2022 08:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/15/2022 23:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-3A | Lab Sample ID: 480-198813-4

Matrix: Water | Lab File ID: N5630.D

Analysis Method: 8260C | Date Collected: 06/08/2022 08:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/15/2022 23:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		77-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5630.D
Lims ID: 480-198813-M-4
Client ID: MW-3A
Sample Type: Client
Inject. Date: 15-Jun-2022 23:18:30 ALS Bottle#: 34 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198813-M-4
Misc. Info.: 480-0106089-014
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2022 11:09:01 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: RepkaC Date: 16-Jun-2022 11:09:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.241	5.241	0.000	97	195386	25.0	
* 2 Chlorobenzene-d5	117	8.222	8.222	0.000	92	700401	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.637	10.637	0.000	96	376627	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.973	4.973	0.000	96	313821	22.8	
$ 6 Toluene-d8 (Surr)	98	6.743	6.743	0.000	94	866438	24.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.481	9.481	0.000	87	295743	25.8	
13 Chloromethane	50		1.372				ND	
14 Vinyl chloride	62		1.463				ND	
15 Bromomethane	94		1.761				ND	
16 Chloroethane	64		1.822				ND	
18 Trichlorofluoromethane	101		2.047				ND	
22 1,1-Dichloroethene	96		2.509				ND	
23 Acetone	43		2.631				ND	
24 Iodomethane	142		2.667				ND	
25 Carbon disulfide	76		2.698				ND	7
30 Methylene Chloride	84		3.014				ND	
33 trans-1,2-Dichloroethene	96		3.239				ND	
34 Acrylonitrile	53		3.300				ND	
36 1,1-Dichloroethane	63		3.653				ND	
39 Vinyl acetate	43		3.708				ND	
43 cis-1,2-Dichloroethene	96		4.200				ND	
44 2-Butanone (MEK)	43		4.237				ND	U
47 Chlorobromomethane	128		4.432				ND	
50 Chloroform	83		4.511				ND	
51 1,1,1-Trichloroethane	97		4.620				ND	
53 Carbon tetrachloride	117		4.760				ND	
55 Benzene	78		4.973				ND	
57 1,2-Dichloroethane	62		5.040				ND	
60 Trichloroethene	95		5.581				ND	
63 1,2-Dichloropropane	63		5.819				ND	
64 Dibromomethane	93		5.953				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
67 Dichlorobromomethane	83		6.111				ND	
71 cis-1,3-Dichloropropene	75		6.524				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.676				ND	U
73 Toluene	92		6.810				ND	
75 trans-1,3-Dichloropropene	75		7.096				ND	
78 1,1,2-Trichloroethane	83		7.285				ND	
79 Tetrachloroethene	166		7.340				ND	
82 2-Hexanone	43		7.510				ND	
83 Chlorodibromomethane	129		7.674				ND	
84 Ethylene Dibromide	107		7.778				ND	
85 Chlorobenzene	112		8.252				ND	
88 Ethylbenzene	91		8.349				ND	
89 1,1,1,2-Tetrachloroethane	131		8.349				ND	
90 m-Xylene & p-Xylene	106		8.471				ND	
91 o-Xylene	106		8.897				ND	
92 Styrene	104		8.927				ND	
93 Bromoform	173		9.171				ND	
98 1,1,2,2-Tetrachloroethane	83		9.700				ND	
99 1,2,3-Trichloropropane	110		9.724				ND	
101 trans-1,4-Dichloro-2-butene	53		9.743				ND	
113 1,4-Dichlorobenzene	146		10.661				ND	7
116 1,2-Dichlorobenzene	146		11.014				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.750				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

N_8260_Surr_00440	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00232	Amount Added:	1.00	Units: uL	Run Reagent

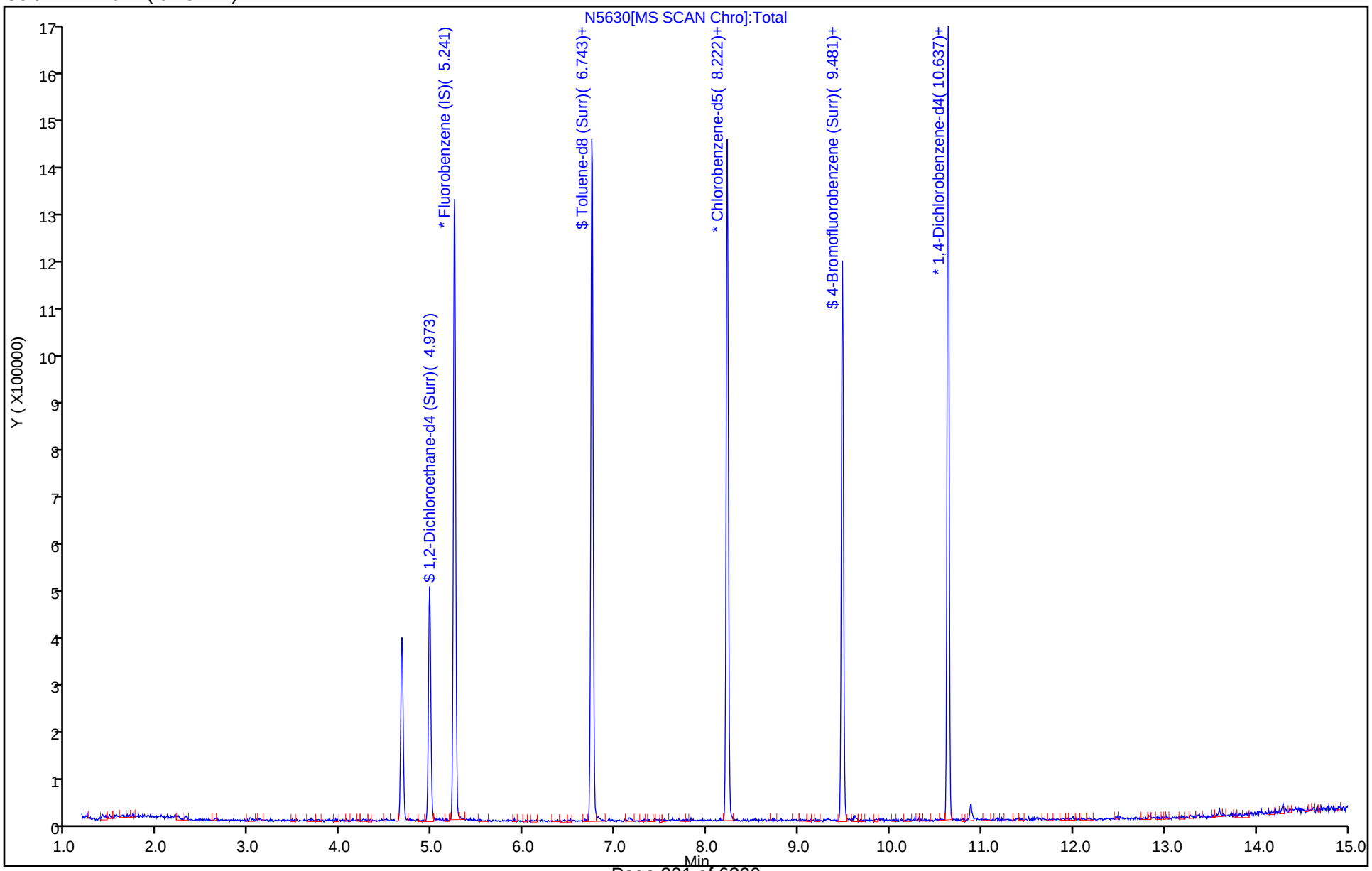
Report Date: 16-Jun-2022 11:09:02 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5630.D

Injection Date:	15-Jun-2022 23:18:30	Instrument ID:	HP5973N	Operator ID:	CR/AK
Lims ID:	480-198813-M-4	Lab Sample ID:	480-198813-4	Worklist Smp#:	14
Client ID:	MW-3A				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5630.D
Lims ID: 480-198813-M-4
Client ID: MW-3A
Sample Type: Client
Inject. Date: 15-Jun-2022 23:18:30 ALS Bottle#: 34 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198813-M-4
Misc. Info.: 480-0106089-014
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2022 11:09:01 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: RepkaC Date: 16-Jun-2022 11:09:01

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	22.8	91.25
$ 6 Toluene-d8 (Surr)	25.0	24.6	98.40
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.8	103.08

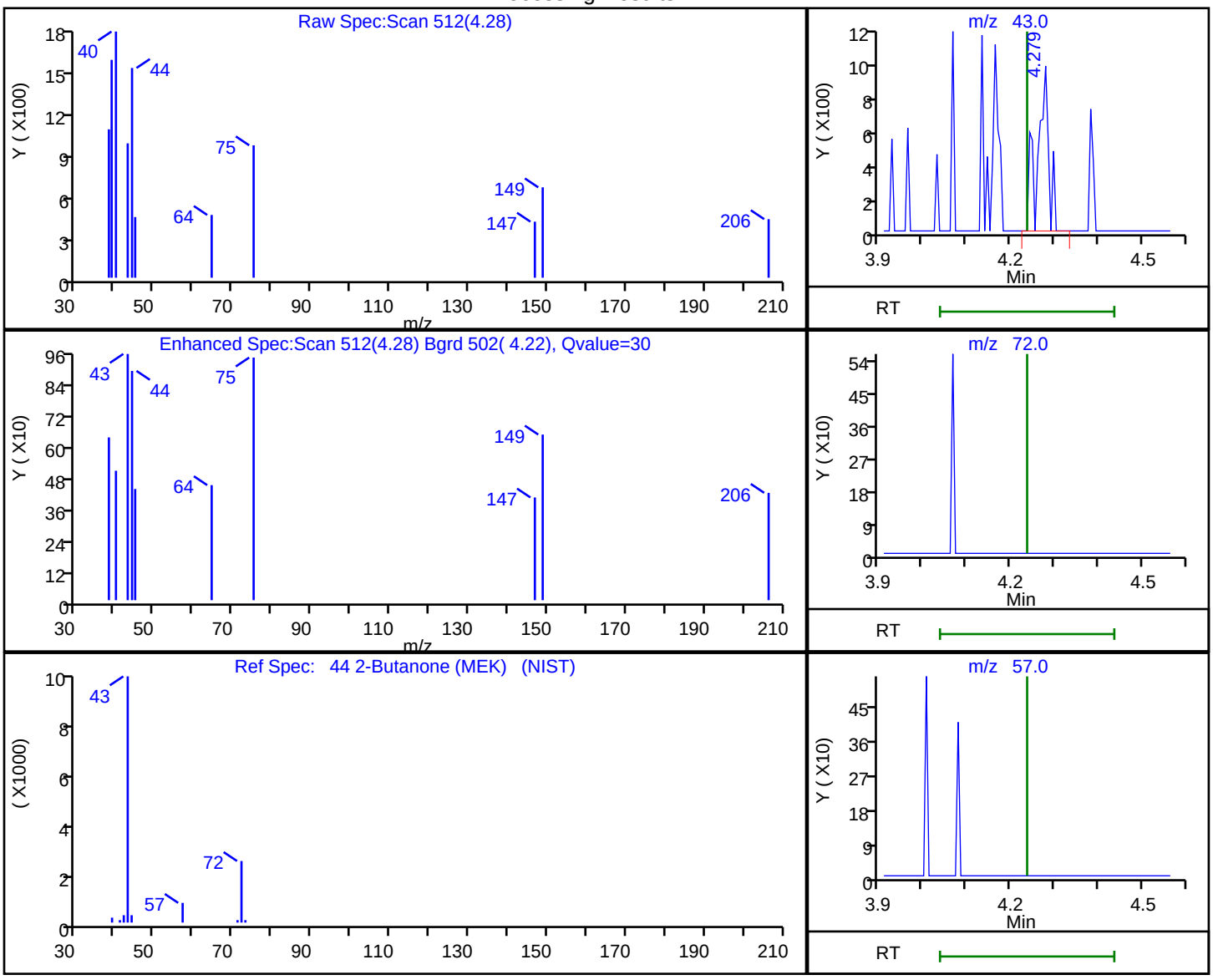
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5630.D				
Injection Date:	15-Jun-2022 23:18:30	Instrument ID:	HP5973N		
Lims ID:	480-198813-M-4	Lab Sample ID:	480-198813-4		
Client ID:	MW-3A				
Operator ID:	CR/AK	ALS Bottle#:	34	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
4.28	43.00	1731	0.175562
4.24	72.00	0	
4.24	57.00	0	

Reviewer: RepkaC, 16-Jun-2022 11:08:47

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

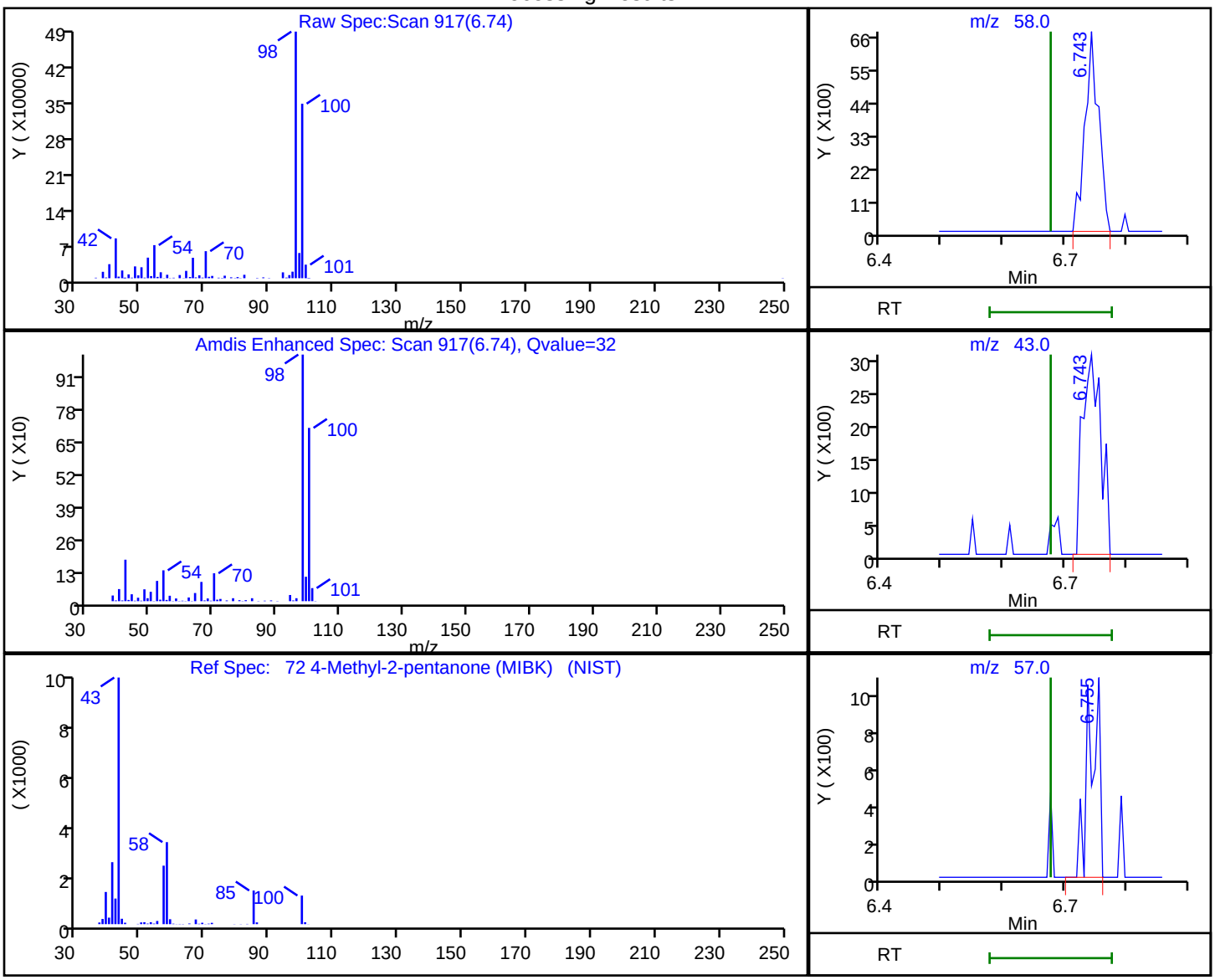
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5630.D				
Injection Date:	15-Jun-2022 23:18:30	Instrument ID:	HP5973N		
Lims ID:	480-198813-M-4	Lab Sample ID:	480-198813-4		
Client ID:	MW-3A				
Operator ID:	CR/AK	ALS Bottle#:	34	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.74	58.00	10520	1.456934
6.74	43.00	6375	
6.76	57.00	1271	

Reviewer: RepkaC, 16-Jun-2022 11:08:53

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-3B | Lab Sample ID: 480-198813-5

Matrix: Water | Lab File ID: N5631.D

Analysis Method: 8260C | Date Collected: 06/08/2022 08:45

Sample wt/vol: 5(mL) | Date Analyzed: 06/15/2022 23:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-3B | Lab Sample ID: 480-198813-5

Matrix: Water | Lab File ID: N5631.D

Analysis Method: 8260C | Date Collected: 06/08/2022 08:45

Sample wt/vol: 5(mL) | Date Analyzed: 06/15/2022 23:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		77-120
2037-26-5	Toluene-d8 (Surr)	92		80-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5631.D
Lims ID: 480-198813-M-5
Client ID: MW-3B
Sample Type: Client
Inject. Date: 15-Jun-2022 23:42:30 ALS Bottle#: 35 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198813-M-5
Misc. Info.: 480-0106089-015
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2022 11:09:33 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: RepkaC Date: 16-Jun-2022 11:09:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.247	5.241	0.006	97	210838	25.0	
* 2 Chlorobenzene-d5	117	8.222	8.222	0.000	91	692721	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.637	10.637	0.000	97	364459	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.973	4.973	0.000	98	319841	21.5	
$ 6 Toluene-d8 (Surr)	98	6.743	6.743	0.000	95	804860	23.1	
$ 7 4-Bromofluorobenzene (Surr)	174	9.481	9.481	0.000	86	297835	26.2	
13 Chloromethane	50		1.372				ND	
14 Vinyl chloride	62		1.463				ND	
15 Bromomethane	94		1.761				ND	
16 Chloroethane	64		1.822				ND	
18 Trichlorofluoromethane	101		2.047				ND	
22 1,1-Dichloroethene	96		2.509				ND	
23 Acetone	43		2.631				ND	
24 Iodomethane	142		2.667				ND	
25 Carbon disulfide	76		2.698				ND	
30 Methylene Chloride	84		3.014				ND	
33 trans-1,2-Dichloroethene	96		3.239				ND	
34 Acrylonitrile	53		3.300				ND	
36 1,1-Dichloroethane	63		3.653				ND	
39 Vinyl acetate	43		3.708				ND	
43 cis-1,2-Dichloroethene	96		4.200				ND	
44 2-Butanone (MEK)	43		4.237				ND	
47 Chlorobromomethane	128		4.432				ND	
50 Chloroform	83		4.511				ND	
51 1,1,1-Trichloroethane	97		4.620				ND	
53 Carbon tetrachloride	117		4.760				ND	
55 Benzene	78		4.973				ND	
57 1,2-Dichloroethane	62		5.040				ND	
60 Trichloroethene	95		5.581				ND	
63 1,2-Dichloropropane	63		5.819				ND	
64 Dibromomethane	93		5.953				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
67 Dichlorobromomethane	83		6.111				ND	
71 cis-1,3-Dichloropropene	75		6.524				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.676				ND	U
73 Toluene	92		6.810				ND	
75 trans-1,3-Dichloropropene	75		7.096				ND	
78 1,1,2-Trichloroethane	83		7.285				ND	
79 Tetrachloroethene	166		7.340				ND	
82 2-Hexanone	43		7.510				ND	
83 Chlorodibromomethane	129		7.674				ND	
84 Ethylene Dibromide	107		7.778				ND	
85 Chlorobenzene	112		8.252				ND	
88 Ethylbenzene	91		8.349				ND	
89 1,1,1,2-Tetrachloroethane	131		8.349				ND	
90 m-Xylene & p-Xylene	106		8.471				ND	
91 o-Xylene	106		8.897				ND	
92 Styrene	104		8.927				ND	
93 Bromoform	173		9.171				ND	
98 1,1,2,2-Tetrachloroethane	83		9.700				ND	
99 1,2,3-Trichloropropane	110		9.724				ND	
101 trans-1,4-Dichloro-2-butene	53		9.743				ND	
113 1,4-Dichlorobenzene	146		10.661				ND	
116 1,2-Dichlorobenzene	146		11.014				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.750				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

N_8260_Surr_00440	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00232	Amount Added:	1.00	Units: uL	Run Reagent

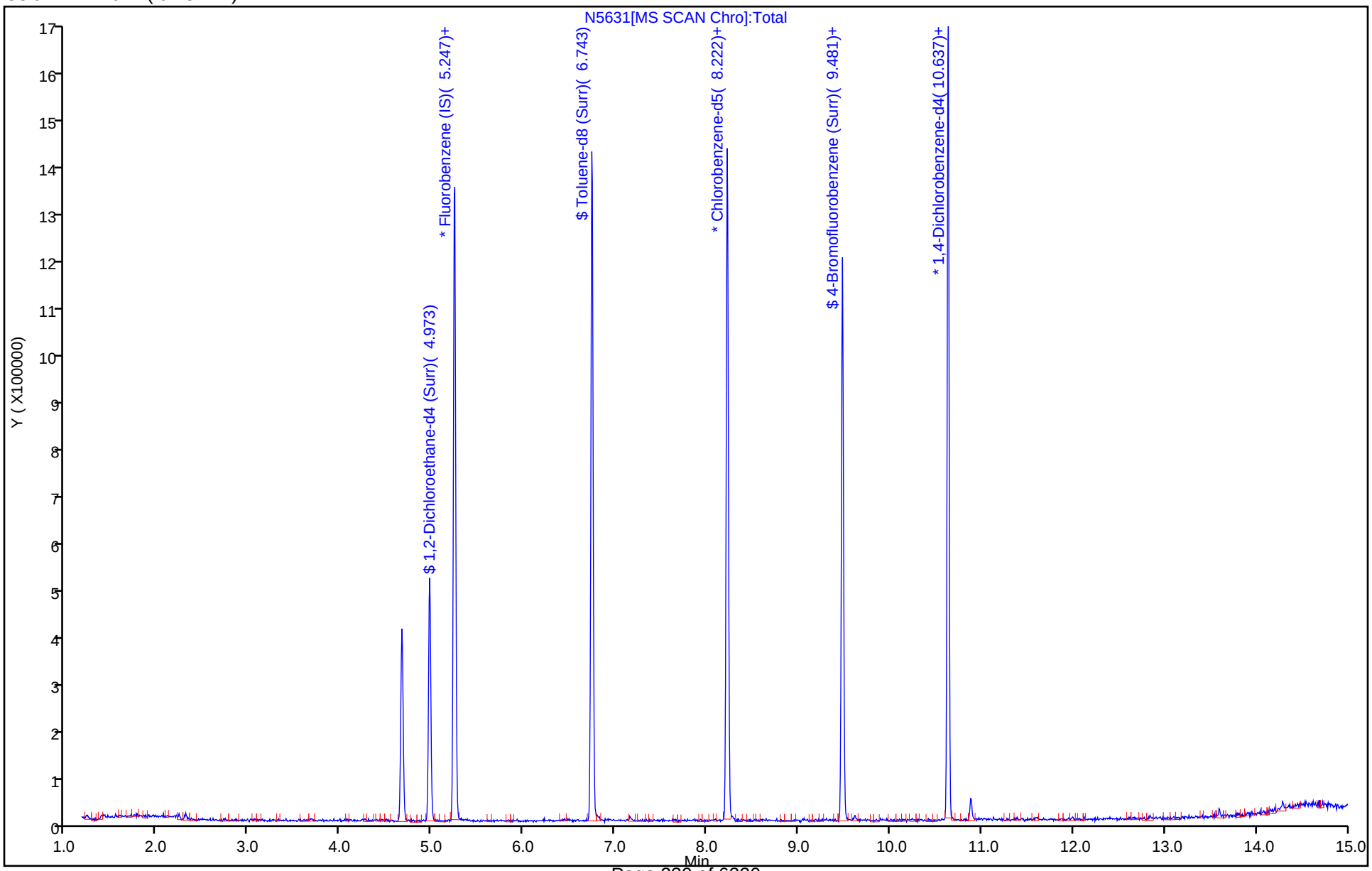
Report Date: 16-Jun-2022 11:09:34 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5631.D

Injection Date:	15-Jun-2022 23:42:30	Instrument ID:	HP5973N	Operator ID:	CR/AK
Lims ID:	480-198813-M-5	Lab Sample ID:	480-198813-5	Worklist Smp#:	15
Client ID:	MW-3B				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5631.D
Lims ID: 480-198813-M-5
Client ID: MW-3B
Sample Type: Client
Inject. Date: 15-Jun-2022 23:42:30 ALS Bottle#: 35 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198813-M-5
Misc. Info.: 480-0106089-015
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2022 11:09:33 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: RepkaC Date: 16-Jun-2022 11:09:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	21.5	86.19
$ 6 Toluene-d8 (Surr)	25.0	23.1	92.42
$ 7 4-Bromofluorobenzene (Surr)	25.0	26.2	104.96

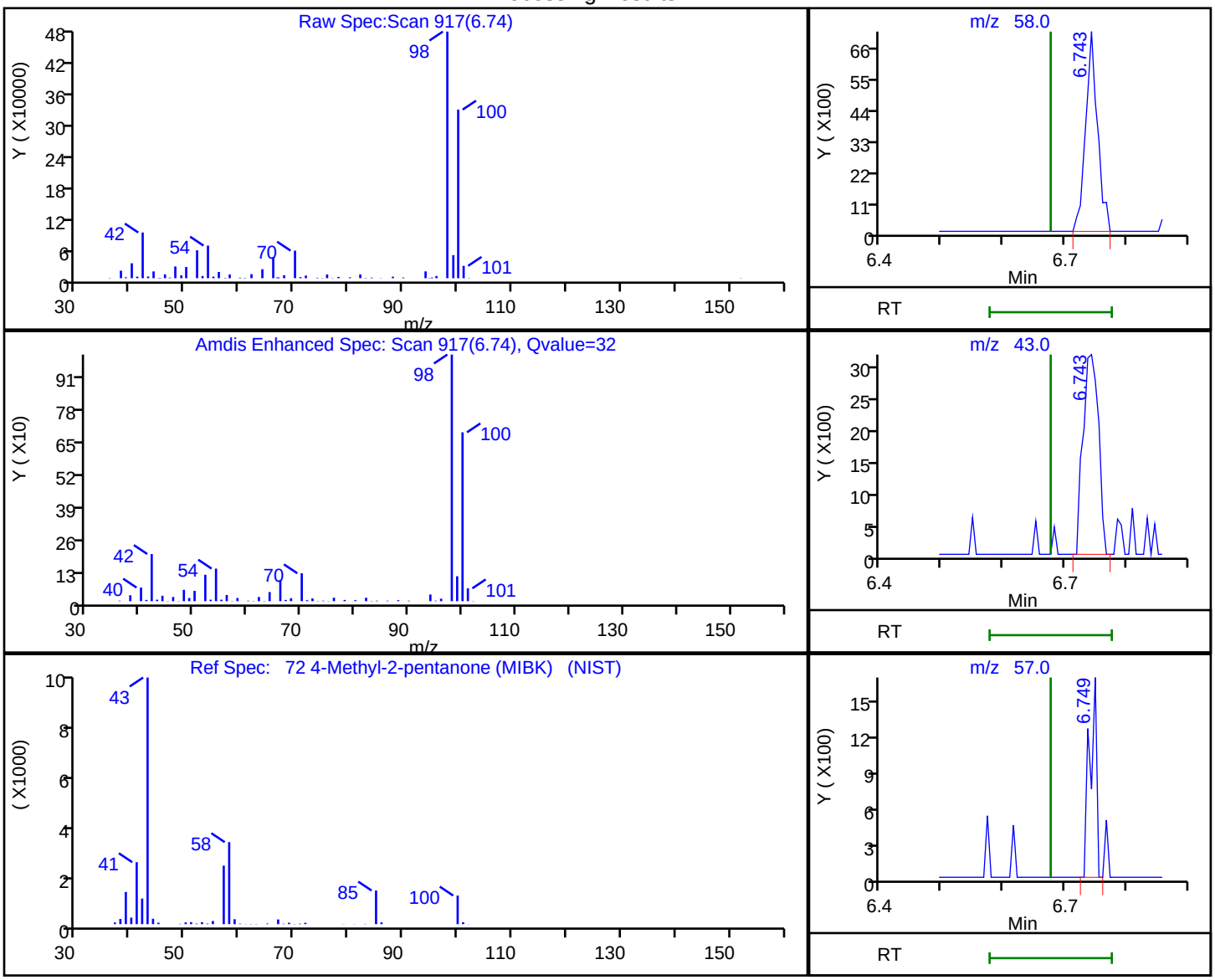
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5631.D				
Injection Date:	15-Jun-2022 23:42:30	Instrument ID:	HP5973N		
Lims ID:	480-198813-M-5	Lab Sample ID:	480-198813-5		
Client ID:	MW-3B				
Operator ID:	CR/AK	ALS Bottle#:	35	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.74	58.00	9677	1.355044
6.74	43.00	5578	
6.75	57.00	1293	

Reviewer: RepkaC, 16-Jun-2022 11:09:24

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-4A | Lab Sample ID: 480-198813-6

Matrix: Water | Lab File ID: N5632.D

Analysis Method: 8260C | Date Collected: 06/08/2022 09:15

Sample wt/vol: 5(mL) | Date Analyzed: 06/16/2022 00:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-4A | Lab Sample ID: 480-198813-6

Matrix: Water | Lab File ID: N5632.D

Analysis Method: 8260C | Date Collected: 06/08/2022 09:15

Sample wt/vol: 5(mL) | Date Analyzed: 06/16/2022 00:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		77-120
2037-26-5	Toluene-d8 (Surr)	91		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5632.D
Lims ID: 480-198813-M-6
Client ID: MW-4A
Sample Type: Client
Inject. Date: 16-Jun-2022 00:04:30 ALS Bottle#: 36 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198813-M-6
Misc. Info.: 480-0106089-016
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2022 11:09:33 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: RepkaC Date: 16-Jun-2022 11:10:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.241	5.241	-0.001	97	195712	25.0	
* 2 Chlorobenzene-d5	117	8.221	8.222	-0.001	93	696063	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.637	10.637	0.000	97	403346	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.967	4.973	-0.006	97	322686	23.4	
$ 6 Toluene-d8 (Surr)	98	6.743	6.743	0.000	94	796419	22.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.481	9.481	0.000	87	290321	25.5	
13 Chloromethane	50		1.372				ND	
14 Vinyl chloride	62		1.463				ND	
15 Bromomethane	94		1.761				ND	
16 Chloroethane	64		1.822				ND	
18 Trichlorofluoromethane	101		2.047				ND	
22 1,1-Dichloroethene	96		2.509				ND	
23 Acetone	43		2.631				ND	
24 Iodomethane	142		2.667				ND	
25 Carbon disulfide	76		2.698				ND	
30 Methylene Chloride	84		3.014				ND	
33 trans-1,2-Dichloroethene	96		3.239				ND	
34 Acrylonitrile	53		3.300				ND	
36 1,1-Dichloroethane	63		3.653				ND	
39 Vinyl acetate	43		3.708				ND	7
43 cis-1,2-Dichloroethene	96		4.200				ND	
44 2-Butanone (MEK)	43		4.237				ND	
47 Chlorobromomethane	128		4.432				ND	
50 Chloroform	83		4.511				ND	
51 1,1,1-Trichloroethane	97		4.620				ND	
53 Carbon tetrachloride	117		4.760				ND	
55 Benzene	78		4.973				ND	
57 1,2-Dichloroethane	62		5.040				ND	
60 Trichloroethene	95		5.581				ND	
63 1,2-Dichloropropane	63		5.819				ND	
64 Dibromomethane	93		5.953				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
67 Dichlorobromomethane	83		6.111				ND	
71 cis-1,3-Dichloropropene	75		6.524				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.676				ND	
73 Toluene	92		6.810				ND	
75 trans-1,3-Dichloropropene	75		7.096				ND	
78 1,1,2-Trichloroethane	83		7.285				ND	
79 Tetrachloroethene	166		7.340				ND	
82 2-Hexanone	43		7.510				ND	
83 Chlorodibromomethane	129		7.674				ND	
84 Ethylene Dibromide	107		7.778				ND	
85 Chlorobenzene	112		8.252				ND	
88 Ethylbenzene	91		8.349				ND	
89 1,1,1,2-Tetrachloroethane	131		8.349				ND	
90 m-Xylene & p-Xylene	106		8.471				ND	
91 o-Xylene	106		8.897				ND	
92 Styrene	104		8.927				ND	
93 Bromoform	173		9.171				ND	
98 1,1,2,2-Tetrachloroethane	83		9.700				ND	
99 1,2,3-Trichloropropane	110		9.724				ND	
101 trans-1,4-Dichloro-2-butene	53		9.743				ND	
113 1,4-Dichlorobenzene	146		10.661				ND	
116 1,2-Dichlorobenzene	146		11.014				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.750				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

N_8260_Surr_00440	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00232	Amount Added:	1.00	Units: uL	Run Reagent

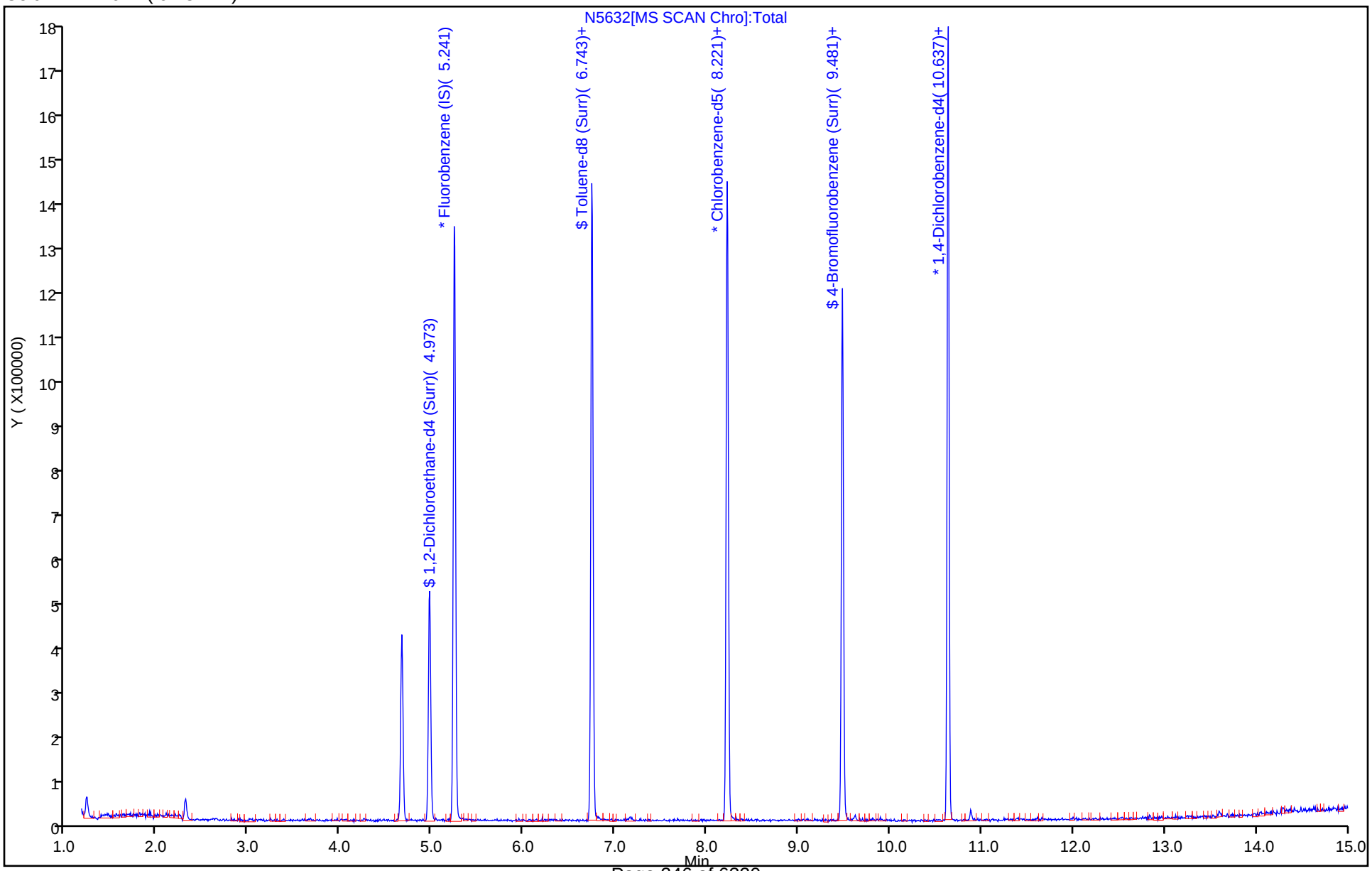
Report Date: 16-Jun-2022 11:10:01 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5632.D

Injection Date:	16-Jun-2022 00:04:30	Instrument ID:	HP5973N	Operator ID:	CR/AK
Lims ID:	480-198813-M-6	Lab Sample ID:	480-198813-6	Worklist Smp#:	16
Client ID:	MW-4A				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5632.D
Lims ID: 480-198813-M-6
Client ID: MW-4A
Sample Type: Client
Inject. Date: 16-Jun-2022 00:04:30 ALS Bottle#: 36 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198813-M-6
Misc. Info.: 480-0106089-016
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2022 11:09:33 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: RepkaC Date: 16-Jun-2022 11:10:01

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	23.4	93.68
$ 6 Toluene-d8 (Surr)	25.0	22.8	91.01
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.5	101.82

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-5A | Lab Sample ID: 480-198813-7

Matrix: Water | Lab File ID: N5633.D

Analysis Method: 8260C | Date Collected: 06/08/2022 09:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/16/2022 00:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-5A | Lab Sample ID: 480-198813-7

Matrix: Water | Lab File ID: N5633.D

Analysis Method: 8260C | Date Collected: 06/08/2022 09:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/16/2022 00:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		77-120
2037-26-5	Toluene-d8 (Surr)	91		80-120
460-00-4	4-Bromofluorobenzene (Surr)	112		73-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5633.D
Lims ID: 480-198813-M-7
Client ID: MW-5A
Sample Type: Client
Inject. Date: 16-Jun-2022 00:27:30 ALS Bottle#: 37 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198813-M-7
Misc. Info.: 480-0106089-017
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2022 11:10:28 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: RepkaC Date: 16-Jun-2022 11:10:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.241	5.241	0.000	97	197726	25.0	
* 2 Chlorobenzene-d5	117	8.221	8.222	-0.001	91	691639	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.637	10.637	0.000	97	386731	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.973	4.973	0.000	96	319396	22.9	
$ 6 Toluene-d8 (Surr)	98	6.743	6.743	0.000	94	794682	22.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.481	9.481	0.000	95	318068	28.1	
13 Chloromethane	50		1.372				ND	
14 Vinyl chloride	62		1.463				ND	
15 Bromomethane	94		1.761				ND	
16 Chloroethane	64		1.822				ND	
18 Trichlorofluoromethane	101		2.047				ND	
22 1,1-Dichloroethene	96		2.509				ND	
23 Acetone	43		2.631				ND	
24 Iodomethane	142		2.667				ND	
25 Carbon disulfide	76		2.698				ND	
30 Methylene Chloride	84		3.014				ND	
33 trans-1,2-Dichloroethene	96		3.239				ND	
34 Acrylonitrile	53		3.300				ND	
36 1,1-Dichloroethane	63		3.653				ND	
39 Vinyl acetate	43		3.708				ND	
43 cis-1,2-Dichloroethene	96		4.200				ND	
44 2-Butanone (MEK)	43		4.237				ND	
47 Chlorobromomethane	128		4.432				ND	
50 Chloroform	83		4.511				ND	
51 1,1,1-Trichloroethane	97		4.620				ND	
53 Carbon tetrachloride	117		4.760				ND	
55 Benzene	78		4.973				ND	
57 1,2-Dichloroethane	62		5.040				ND	
60 Trichloroethene	95		5.581				ND	
63 1,2-Dichloropropane	63		5.819				ND	
64 Dibromomethane	93		5.953				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
67 Dichlorobromomethane	83		6.111				ND	
71 cis-1,3-Dichloropropene	75		6.524				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.676				ND	U
73 Toluene	92		6.810				ND	
75 trans-1,3-Dichloropropene	75		7.096				ND	
78 1,1,2-Trichloroethane	83		7.285				ND	
79 Tetrachloroethene	166		7.340				ND	
82 2-Hexanone	43		7.510				ND	
83 Chlorodibromomethane	129		7.674				ND	
84 Ethylene Dibromide	107		7.778				ND	
85 Chlorobenzene	112		8.252				ND	
88 Ethylbenzene	91		8.349				ND	
89 1,1,1,2-Tetrachloroethane	131		8.349				ND	
90 m-Xylene & p-Xylene	106		8.471				ND	
91 o-Xylene	106		8.897				ND	
92 Styrene	104		8.927				ND	
93 Bromoform	173		9.171				ND	
98 1,1,2,2-Tetrachloroethane	83		9.700				ND	
99 1,2,3-Trichloropropane	110		9.724				ND	
101 trans-1,4-Dichloro-2-butene	53		9.743				ND	
113 1,4-Dichlorobenzene	146		10.661				ND	
116 1,2-Dichlorobenzene	146		11.014				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.750				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

N_8260_Surr_00440	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00232	Amount Added:	1.00	Units: uL	Run Reagent

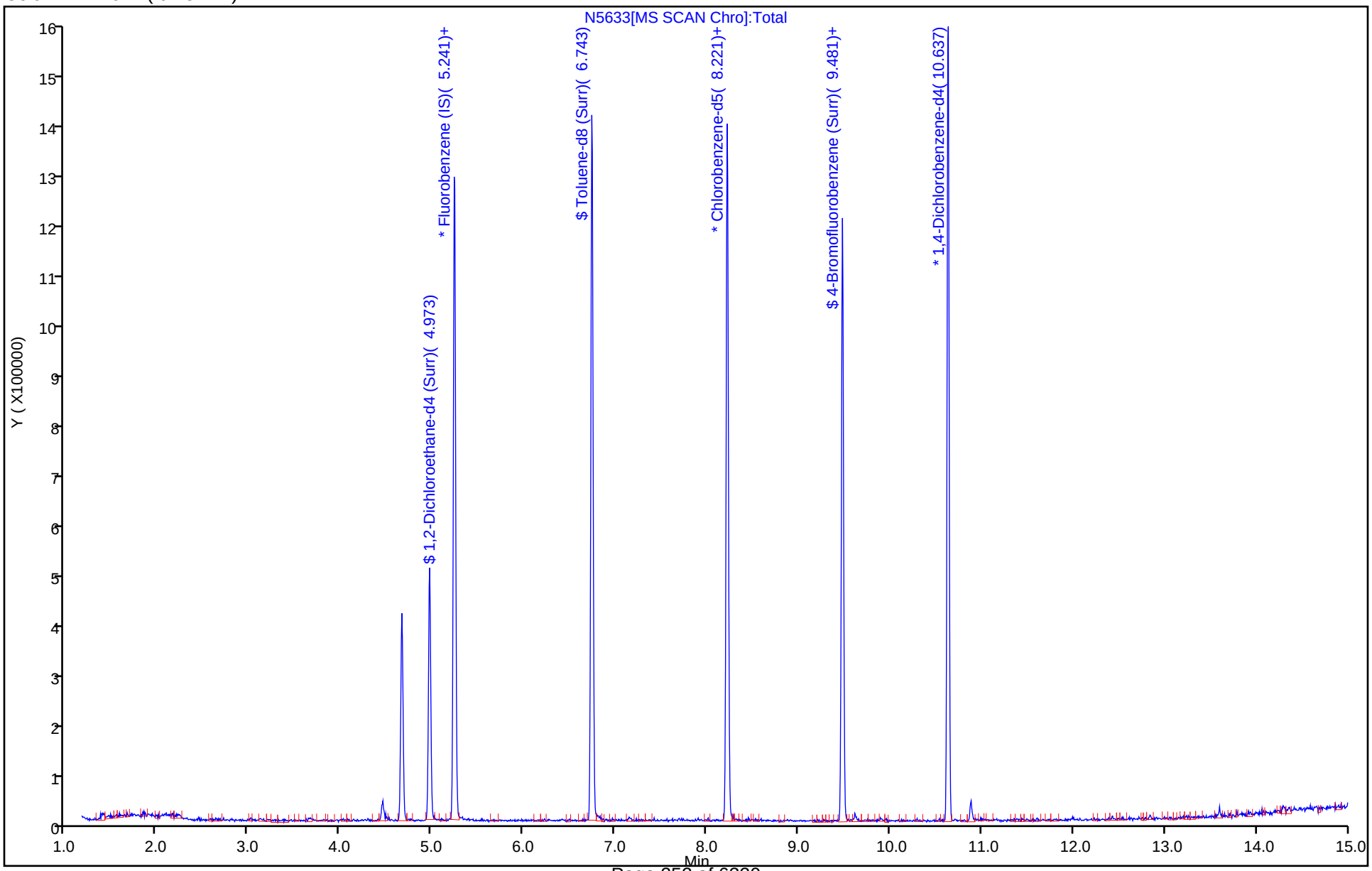
Report Date: 16-Jun-2022 11:10:28 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5633.D

Injection Date:	16-Jun-2022 00:27:30	Instrument ID:	HP5973N	Operator ID:	CR/AK
Lims ID:	480-198813-M-7	Lab Sample ID:	480-198813-7	Worklist Smp#:	17
Client ID:	MW-5A				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	37
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5633.D				
Lims ID:	480-198813-M-7				
Client ID:	MW-5A				
Sample Type:	Client				
Inject. Date:	16-Jun-2022 00:27:30	ALS Bottle#:	37	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-198813-M-7				
Misc. Info.:	480-0106089-017				
Operator ID:	CR/AK	Instrument ID:	HP5973N		
Method:	\\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	16-Jun-2022 11:10:28	Calib Date:	07-Jun-2022 00:47:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D				
Column 1 :	ZB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1611				

First Level Reviewer: RepkaC Date: 16-Jun-2022 11:10:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	22.9	91.78
$ 6 Toluene-d8 (Surr)	25.0	22.8	91.39
$ 7 4-Bromofluorobenzene (Surr)	25.0	28.1	112.26

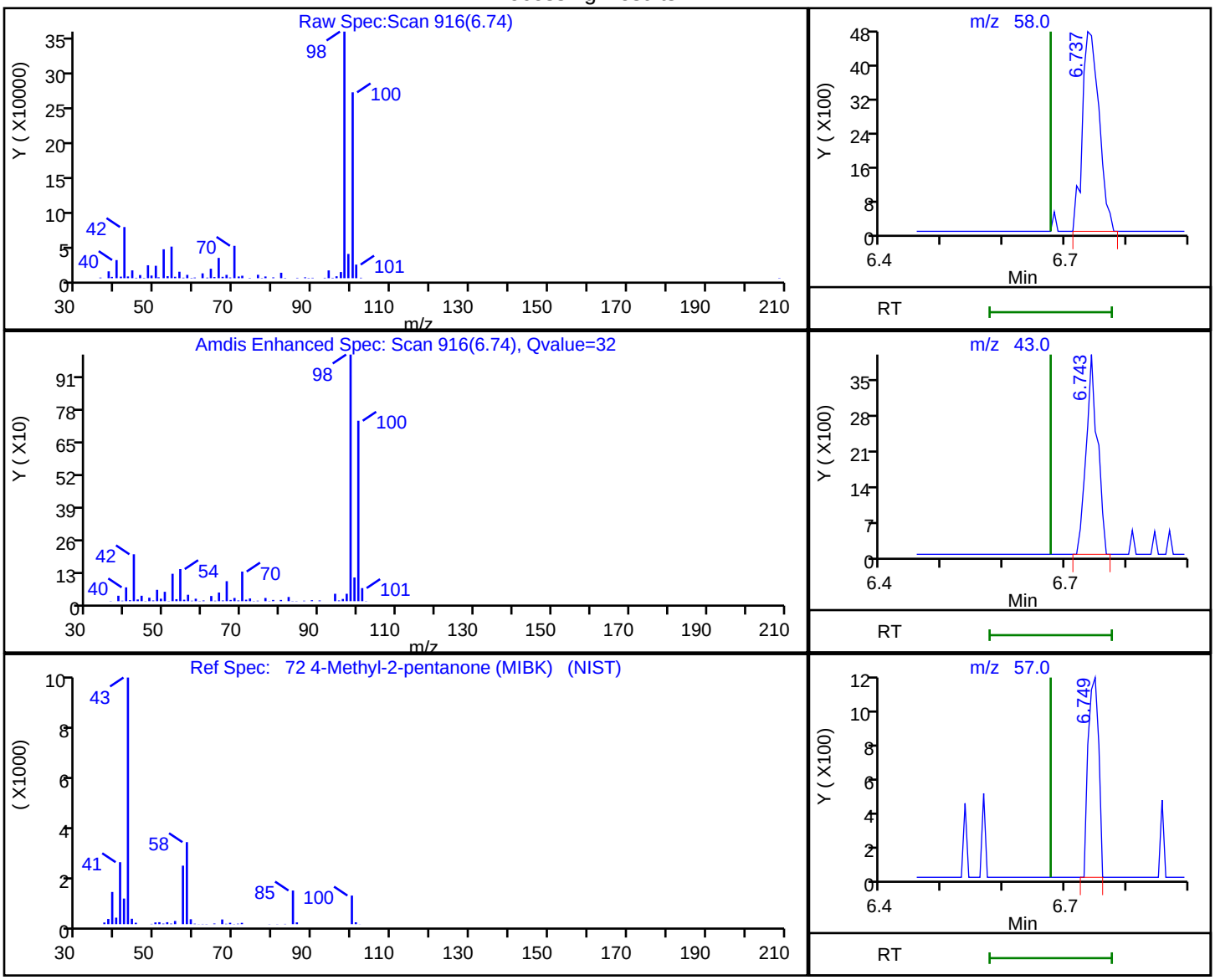
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5633.D				
Injection Date:	16-Jun-2022 00:27:30	Instrument ID:	HP5973N		
Lims ID:	480-198813-M-7	Lab Sample ID:	480-198813-7		
Client ID:	MW-5A				
Operator ID:	CR/AK	ALS Bottle#:	37	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.74	58.00	9082	1.273717
6.74	43.00	5007	
6.75	57.00	1344	

Reviewer: RepkaC, 16-Jun-2022 11:10:19

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-6A | Lab Sample ID: 480-198813-8

Matrix: Water | Lab File ID: N5634.D

Analysis Method: 8260C | Date Collected: 06/08/2022 11:55

Sample wt/vol: 5(mL) | Date Analyzed: 06/16/2022 00:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-6A | Lab Sample ID: 480-198813-8

Matrix: Water | Lab File ID: N5634.D

Analysis Method: 8260C | Date Collected: 06/08/2022 11:55

Sample wt/vol: 5(mL) | Date Analyzed: 06/16/2022 00:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		77-120
2037-26-5	Toluene-d8 (Surr)	89		80-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5634.D
Lims ID: 480-198813-M-8
Client ID: MW-6A
Sample Type: Client
Inject. Date: 16-Jun-2022 00:50:30 ALS Bottle#: 38 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198813-M-8
Misc. Info.: 480-0106089-018
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2022 11:11:08 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: RepkaC Date: 16-Jun-2022 11:11:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.247	5.241	0.006	97	212714	25.0	
* 2 Chlorobenzene-d5	117	8.222	8.222	0.000	90	748656	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.637	10.637	0.000	97	407230	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.973	4.973	0.000	97	311113	20.8	
$ 6 Toluene-d8 (Surr)	98	6.743	6.743	0.000	94	840822	22.3	
$ 7 4-Bromofluorobenzene (Surr)	174	9.481	9.481	0.000	90	318028	25.9	
13 Chloromethane	50		1.372				ND	
14 Vinyl chloride	62		1.463				ND	
15 Bromomethane	94		1.761				ND	
16 Chloroethane	64		1.822				ND	U
18 Trichlorofluoromethane	101		2.047				ND	
22 1,1-Dichloroethene	96		2.509				ND	
23 Acetone	43		2.631				ND	
24 Iodomethane	142		2.667				ND	
25 Carbon disulfide	76		2.698				ND	7
30 Methylene Chloride	84		3.014				ND	
33 trans-1,2-Dichloroethene	96		3.239				ND	
34 Acrylonitrile	53		3.300				ND	
36 1,1-Dichloroethane	63		3.653				ND	U
39 Vinyl acetate	43		3.708				ND	
43 cis-1,2-Dichloroethene	96		4.200				ND	
44 2-Butanone (MEK)	43		4.237				ND	
47 Chlorobromomethane	128		4.432				ND	
50 Chloroform	83		4.511				ND	
51 1,1,1-Trichloroethane	97		4.620				ND	
53 Carbon tetrachloride	117		4.760				ND	
55 Benzene	78		4.973				ND	
57 1,2-Dichloroethane	62		5.040				ND	
60 Trichloroethene	95		5.581				ND	
63 1,2-Dichloropropane	63		5.819				ND	
64 Dibromomethane	93		5.953				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
67 Dichlorobromomethane	83		6.111				ND	
71 cis-1,3-Dichloropropene	75		6.524				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.676				ND	
73 Toluene	92		6.810				ND	
75 trans-1,3-Dichloropropene	75		7.096				ND	
78 1,1,2-Trichloroethane	83		7.285				ND	
79 Tetrachloroethene	166		7.340				ND	
82 2-Hexanone	43		7.510				ND	
83 Chlorodibromomethane	129		7.674				ND	
84 Ethylene Dibromide	107		7.778				ND	
85 Chlorobenzene	112		8.252				ND	
88 Ethylbenzene	91		8.349				ND	
89 1,1,1,2-Tetrachloroethane	131		8.349				ND	
90 m-Xylene & p-Xylene	106		8.471				ND	
91 o-Xylene	106		8.897				ND	
92 Styrene	104		8.927				ND	
93 Bromoform	173		9.171				ND	
98 1,1,2,2-Tetrachloroethane	83		9.700				ND	
99 1,2,3-Trichloropropane	110		9.724				ND	
101 trans-1,4-Dichloro-2-butene	53		9.743				ND	
113 1,4-Dichlorobenzene	146		10.661				ND	
116 1,2-Dichlorobenzene	146		11.014				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.750				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

N_8260_Surr_00440	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00232	Amount Added:	1.00	Units: uL	Run Reagent

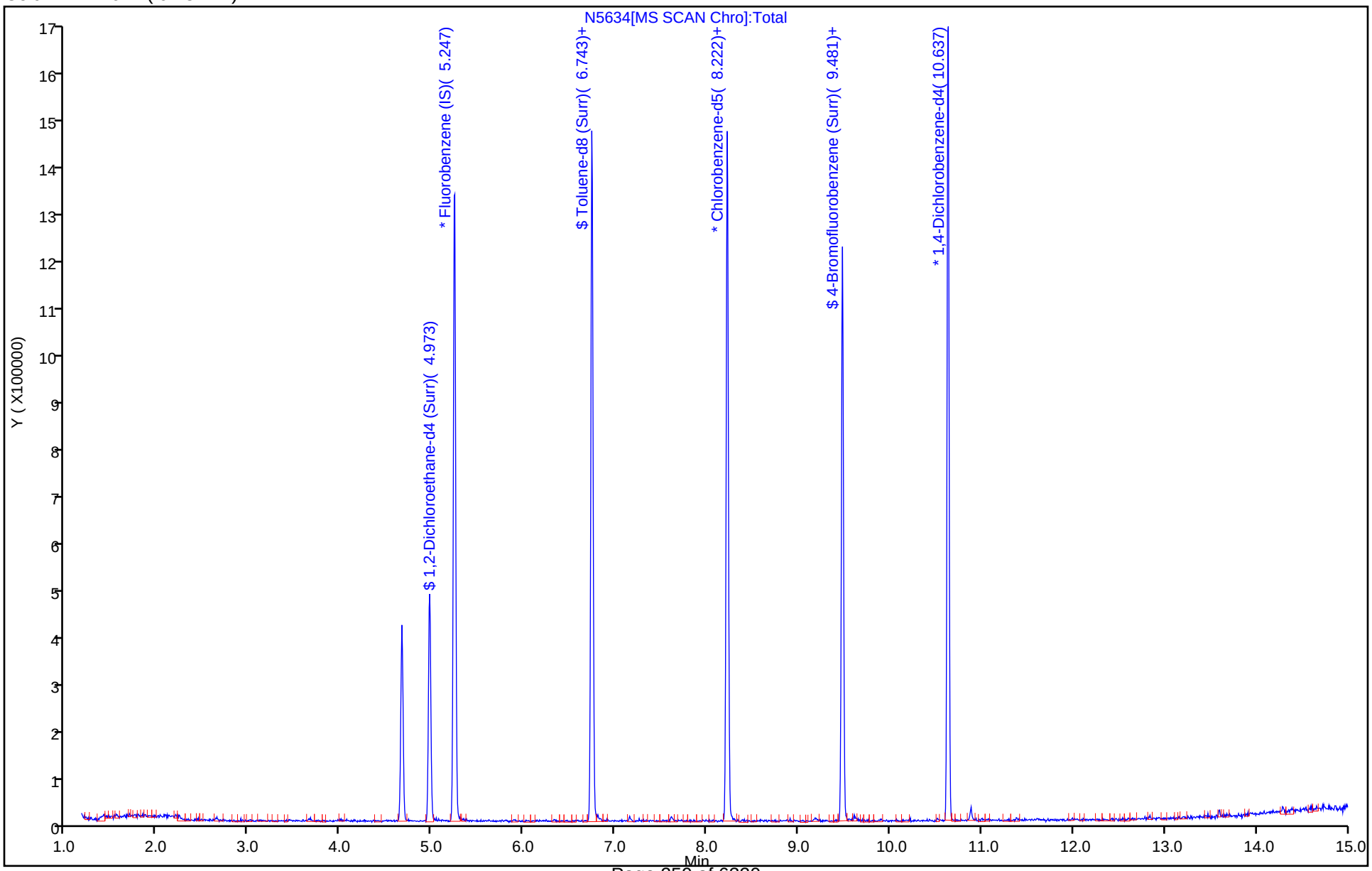
Report Date: 16-Jun-2022 11:11:09 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5634.D

Injection Date:	16-Jun-2022 00:50:30	Instrument ID:	HP5973N	Operator ID:	CR/AK
Lims ID:	480-198813-M-8	Lab Sample ID:	480-198813-8	Worklist Smp#:	18
Client ID:	MW-6A				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	38
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5634.D
Lims ID: 480-198813-M-8
Client ID: MW-6A
Sample Type: Client
Inject. Date: 16-Jun-2022 00:50:30 ALS Bottle#: 38 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198813-M-8
Misc. Info.: 480-0106089-018
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2022 11:11:08 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: RepkaC Date: 16-Jun-2022 11:11:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	20.8	83.10
$ 6 Toluene-d8 (Surr)	25.0	22.3	89.34
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.9	103.70

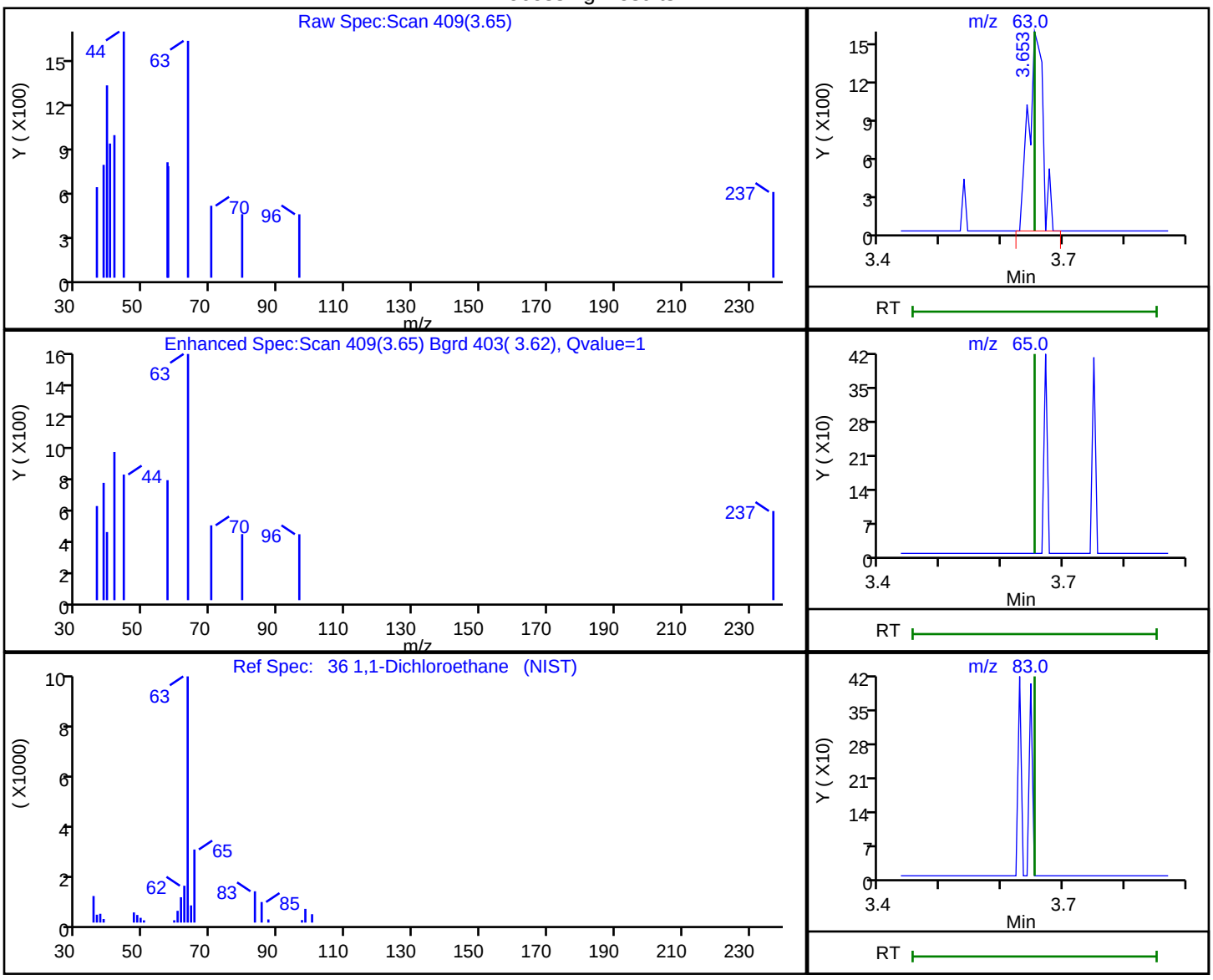
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5634.D				
Injection Date:	16-Jun-2022 00:50:30	Instrument ID:	HP5973N		
Lims ID:	480-198813-M-8	Lab Sample ID:	480-198813-8		
Client ID:	MW-6A				
Operator ID:	CR/AK	ALS Bottle#:	38	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

36 1,1-Dichloroethane, CAS: 75-34-3

Processing Results



RT	Mass	Response	Amount
3.65	63.00	2566	0.101943
3.65	65.00	0	
3.65	83.00	0	

Reviewer: RepkaC, 16-Jun-2022 11:10:50

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

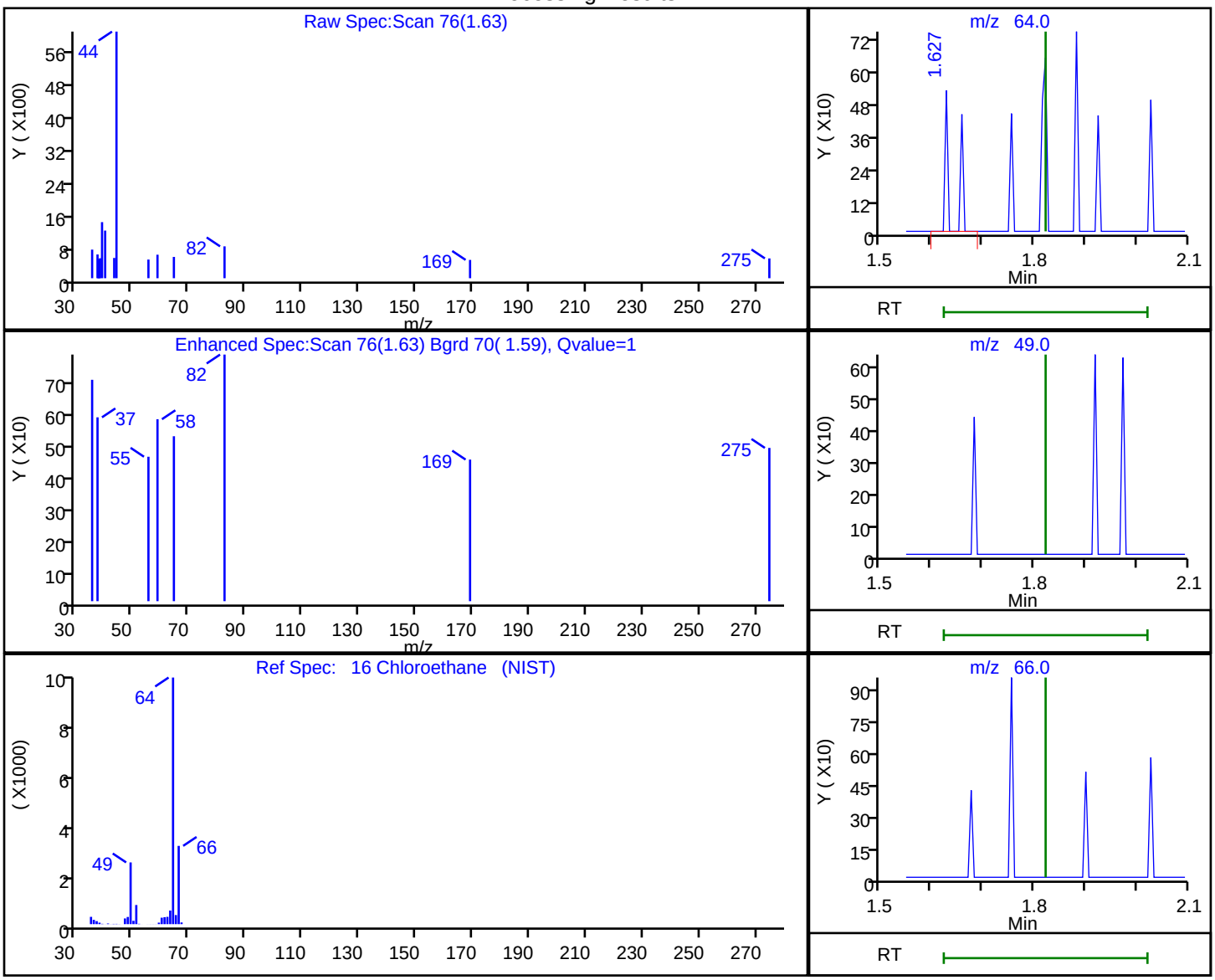
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5634.D				
Injection Date:	16-Jun-2022 00:50:30	Instrument ID:	HP5973N		
Lims ID:	480-198813-M-8	Lab Sample ID:	480-198813-8		
Client ID:	MW-6A				
Operator ID:	CR/AK	ALS Bottle#:	38	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

16 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
1.63	64.00	349	0.042023
1.82	49.00	0	
1.82	66.00	0	

Reviewer: RepkaC, 16-Jun-2022 11:10:44

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-6B | Lab Sample ID: 480-198813-9

Matrix: Water | Lab File ID: N5635.D

Analysis Method: 8260C | Date Collected: 06/08/2022 12:15

Sample wt/vol: 5(mL) | Date Analyzed: 06/16/2022 01:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-6B | Lab Sample ID: 480-198813-9

Matrix: Water | Lab File ID: N5635.D

Analysis Method: 8260C | Date Collected: 06/08/2022 12:15

Sample wt/vol: 5(mL) | Date Analyzed: 06/16/2022 01:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		77-120
2037-26-5	Toluene-d8 (Surr)	91		80-120
460-00-4	4-Bromofluorobenzene (Surr)	107		73-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5635.D
Lims ID: 480-198813-M-9
Client ID: MW-6B
Sample Type: Client
Inject. Date: 16-Jun-2022 01:13:30 ALS Bottle#: 39 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198813-M-9
Misc. Info.: 480-0106089-019
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2022 11:11:40 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: RepkaC Date: 16-Jun-2022 11:11:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.241	5.241	0.000	98	212541	25.0	
* 2 Chlorobenzene-d5	117	8.222	8.222	0.000	90	769587	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.637	10.637	0.000	96	408661	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.973	4.973	0.000	97	311754	20.8	
$ 6 Toluene-d8 (Surr)	98	6.743	6.743	0.000	94	882597	22.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.481	9.481	0.000	90	335813	26.6	
13 Chloromethane	50		1.372				ND	
14 Vinyl chloride	62		1.463				ND	
15 Bromomethane	94		1.761				ND	
16 Chloroethane	64		1.822				ND	
18 Trichlorofluoromethane	101		2.047				ND	
22 1,1-Dichloroethene	96		2.509				ND	
23 Acetone	43		2.631				ND	
24 Iodomethane	142		2.667				ND	
25 Carbon disulfide	76		2.698				ND	
30 Methylene Chloride	84		3.014				ND	
33 trans-1,2-Dichloroethene	96		3.239				ND	
34 Acrylonitrile	53		3.300				ND	
36 1,1-Dichloroethane	63		3.653				ND	
39 Vinyl acetate	43		3.708				ND	
43 cis-1,2-Dichloroethene	96		4.200				ND	
44 2-Butanone (MEK)	43		4.237				ND	
47 Chlorobromomethane	128		4.432				ND	
50 Chloroform	83		4.511				ND	
51 1,1,1-Trichloroethane	97		4.620				ND	
53 Carbon tetrachloride	117		4.760				ND	
55 Benzene	78		4.973				ND	
57 1,2-Dichloroethane	62		5.040				ND	
60 Trichloroethene	95		5.581				ND	
63 1,2-Dichloropropane	63		5.819				ND	
64 Dibromomethane	93		5.953				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
67 Dichlorobromomethane	83		6.111				ND	
71 cis-1,3-Dichloropropene	75		6.524				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.676				ND	U
73 Toluene	92		6.810				ND	
75 trans-1,3-Dichloropropene	75		7.096				ND	
78 1,1,2-Trichloroethane	83		7.285				ND	
79 Tetrachloroethene	166		7.340				ND	
82 2-Hexanone	43		7.510				ND	
83 Chlorodibromomethane	129		7.674				ND	
84 Ethylene Dibromide	107		7.778				ND	
85 Chlorobenzene	112		8.252				ND	
88 Ethylbenzene	91		8.349				ND	
89 1,1,1,2-Tetrachloroethane	131		8.349				ND	
90 m-Xylene & p-Xylene	106		8.471				ND	
91 o-Xylene	106		8.897				ND	
92 Styrene	104		8.927				ND	
93 Bromoform	173		9.171				ND	
98 1,1,2,2-Tetrachloroethane	83		9.700				ND	
99 1,2,3-Trichloropropane	110		9.724				ND	
101 trans-1,4-Dichloro-2-butene	53		9.743				ND	
113 1,4-Dichlorobenzene	146		10.661				ND	
116 1,2-Dichlorobenzene	146		11.014				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.750				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

N_8260_Surr_00440	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00232	Amount Added:	1.00	Units: uL	Run Reagent

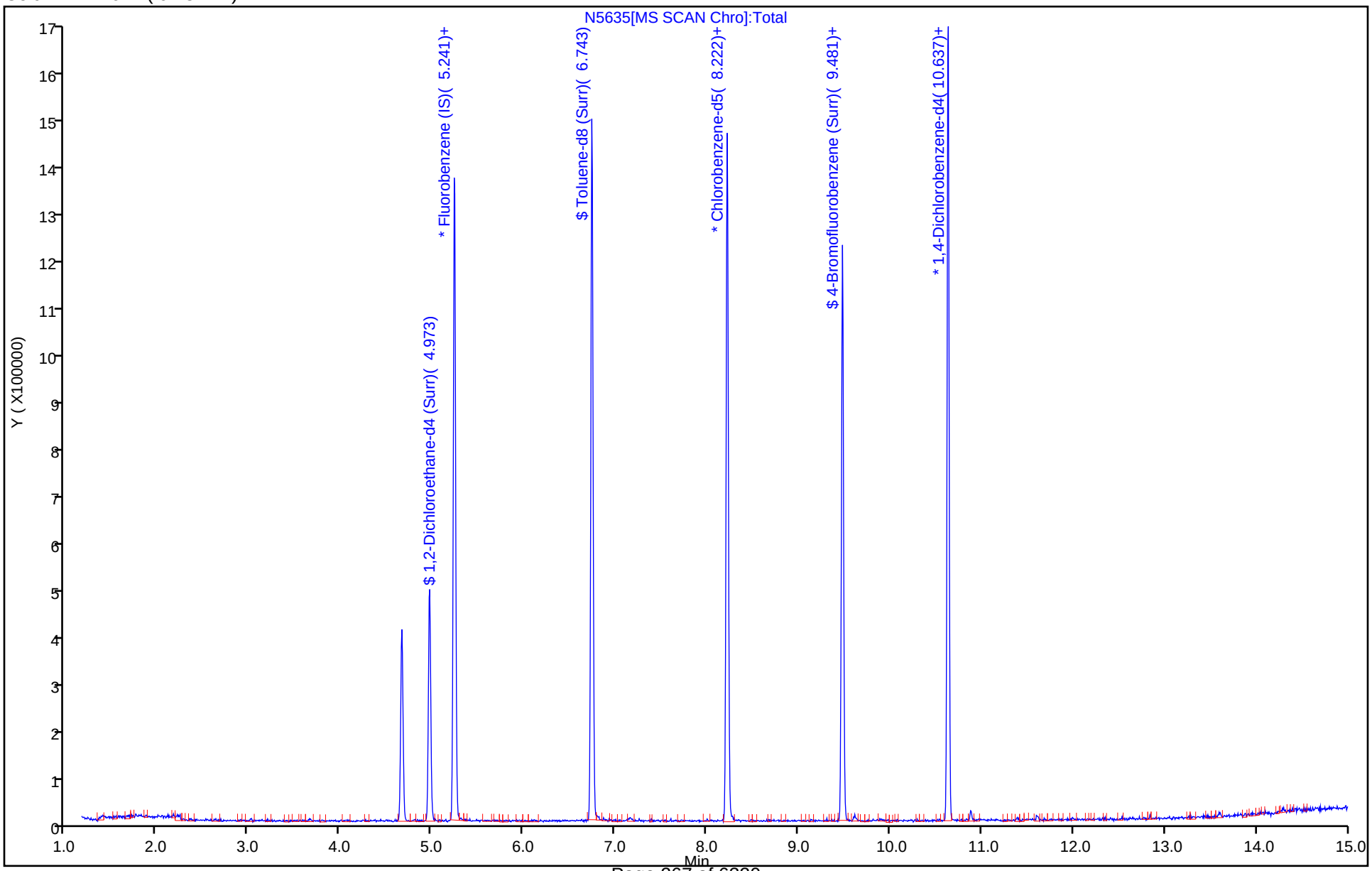
Report Date: 16-Jun-2022 11:11:40 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5635.D

Injection Date:	16-Jun-2022 01:13:30	Instrument ID:	HP5973N	Operator ID:	CR/AK
Lims ID:	480-198813-M-9	Lab Sample ID:	480-198813-9	Worklist Smp#:	19
Client ID:	MW-6B				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	39
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5635.D
Lims ID: 480-198813-M-9
Client ID: MW-6B
Sample Type: Client
Inject. Date: 16-Jun-2022 01:13:30 ALS Bottle#: 39 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198813-M-9
Misc. Info.: 480-0106089-019
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2022 11:11:40 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: RepkaC Date: 16-Jun-2022 11:11:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	20.8	83.34
$ 6 Toluene-d8 (Surr)	25.0	22.8	91.22
$ 7 4-Bromofluorobenzene (Surr)	25.0	26.6	106.52

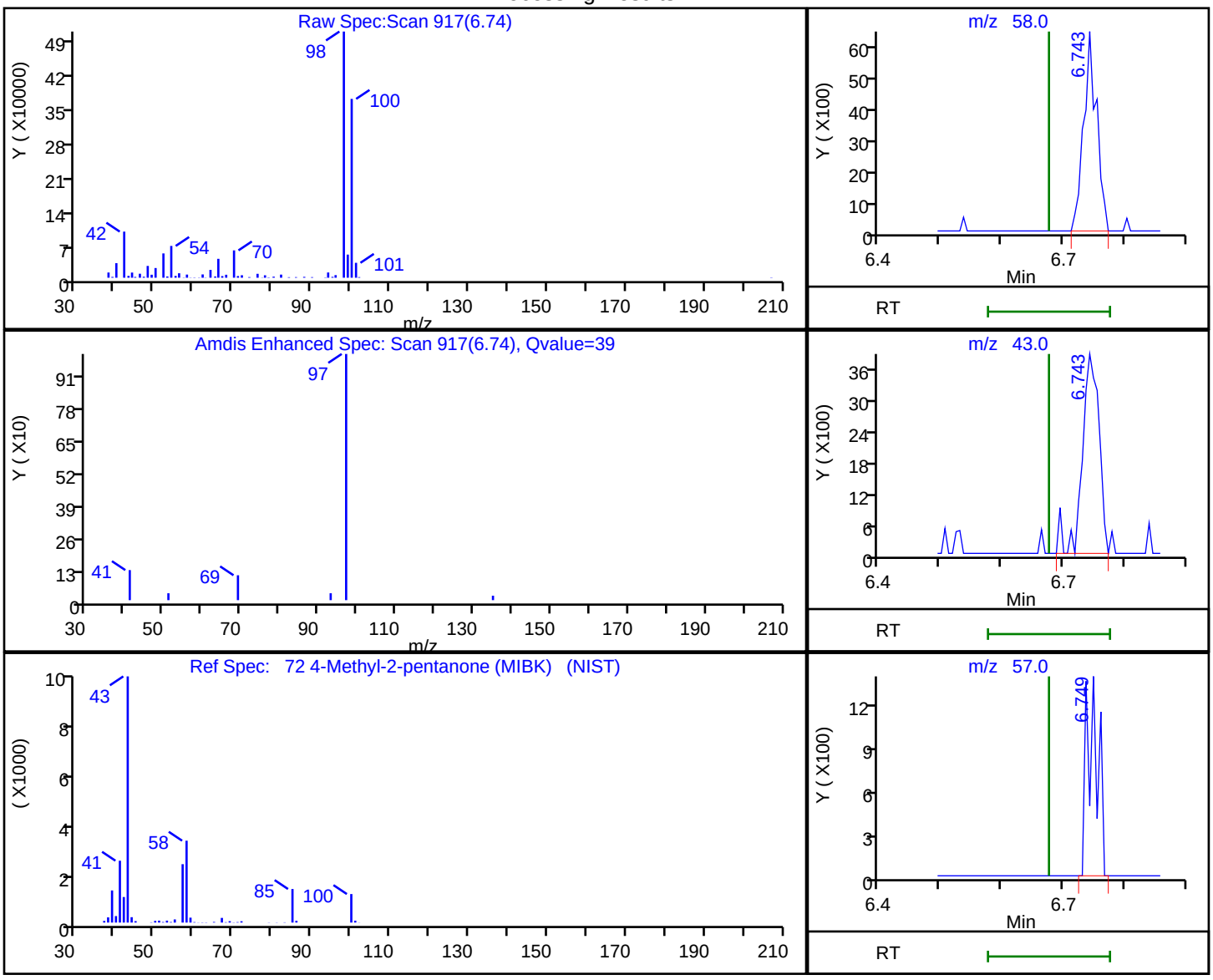
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5635.D				
Injection Date:	16-Jun-2022 01:13:30	Instrument ID:	HP5973N		
Lims ID:	480-198813-M-9	Lab Sample ID:	480-198813-9		
Client ID:	MW-6B				
Operator ID:	CR/AK	ALS Bottle#:	39	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.74	58.00	9606	1.210754
6.74	43.00	7335	
6.75	57.00	1751	

Reviewer: RepkaC, 16-Jun-2022 11:11:30

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-7A | Lab Sample ID: 480-198813-10

Matrix: Water | Lab File ID: N5636.D

Analysis Method: 8260C | Date Collected: 06/08/2022 13:15

Sample wt/vol: 5(mL) | Date Analyzed: 06/16/2022 01:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	1.1		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	1.2		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-7A | Lab Sample ID: 480-198813-10

Matrix: Water | Lab File ID: N5636.D

Analysis Method: 8260C | Date Collected: 06/08/2022 13:15

Sample wt/vol: 5(mL) | Date Analyzed: 06/16/2022 01:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		77-120
2037-26-5	Toluene-d8 (Surr)	91		80-120
460-00-4	4-Bromofluorobenzene (Surr)	106		73-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5636.D
Lims ID: 480-198813-M-10
Client ID: MW-7A
Sample Type: Client
Inject. Date: 16-Jun-2022 01:37:30 ALS Bottle#: 40 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198813-M-10
Misc. Info.: 480-0106089-020
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2022 11:12:35 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: RepkaC Date: 16-Jun-2022 11:12:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.241	5.241	0.000	97	219124	25.0	
* 2 Chlorobenzene-d5	117	8.222	8.222	0.000	90	766326	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.637	10.637	0.000	97	405366	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.973	4.973	0.000	98	321903	20.9	
$ 6 Toluene-d8 (Surr)	98	6.743	6.743	0.000	94	879133	22.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.481	9.481	0.000	90	332150	26.5	
13 Chloromethane	50		1.372				ND	
14 Vinyl chloride	62		1.463				ND	U
15 Bromomethane	94		1.761				ND	
16 Chloroethane	64		1.822				ND	U
18 Trichlorofluoromethane	101		2.047				ND	
22 1,1-Dichloroethene	96		2.509				ND	
23 Acetone	43	2.643	2.637	0.012	67	10292	1.39	
24 Iodomethane	142		2.667				ND	
25 Carbon disulfide	76		2.698				ND	
30 Methylene Chloride	84		3.014				ND	
33 trans-1,2-Dichloroethene	96		3.239				ND	
34 Acrylonitrile	53		3.300				ND	
36 1,1-Dichloroethane	63	3.653	3.653	0.000	95	28829	1.11	
39 Vinyl acetate	43		3.708				ND	
43 cis-1,2-Dichloroethene	96	4.200	4.200	0.000	86	14723	1.18	
44 2-Butanone (MEK)	43		4.237				ND	
47 Chlorobromomethane	128		4.432				ND	
50 Chloroform	83		4.511				ND	
51 1,1,1-Trichloroethane	97		4.620				ND	
53 Carbon tetrachloride	117		4.760				ND	
55 Benzene	78		4.973				ND	7
57 1,2-Dichloroethane	62		5.040				ND	
60 Trichloroethene	95		5.581				ND	
63 1,2-Dichloropropane	63		5.819				ND	
64 Dibromomethane	93		5.953				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
67 Dichlorobromomethane	83		6.111				ND	
71 cis-1,3-Dichloropropene	75		6.524				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.676				ND	U
73 Toluene	92		6.810				ND	
75 trans-1,3-Dichloropropene	75		7.096				ND	
78 1,1,2-Trichloroethane	83		7.285				ND	
79 Tetrachloroethene	166		7.340				ND	
82 2-Hexanone	43		7.510				ND	
83 Chlorodibromomethane	129		7.674				ND	
84 Ethylene Dibromide	107		7.778				ND	
85 Chlorobenzene	112		8.252				ND	
88 Ethylbenzene	91		8.349				ND	
89 1,1,1,2-Tetrachloroethane	131		8.349				ND	
90 m-Xylene & p-Xylene	106		8.471				ND	
91 o-Xylene	106		8.897				ND	
92 Styrene	104		8.927				ND	
93 Bromoform	173		9.171				ND	
98 1,1,2,2-Tetrachloroethane	83		9.700				ND	
99 1,2,3-Trichloropropane	110		9.724				ND	
101 trans-1,4-Dichloro-2-butene	53		9.743				ND	
113 1,4-Dichlorobenzene	146		10.661				ND	
116 1,2-Dichlorobenzene	146		11.014				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.750				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

N_8260_Surr_00440	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00232	Amount Added:	1.00	Units: uL	Run Reagent

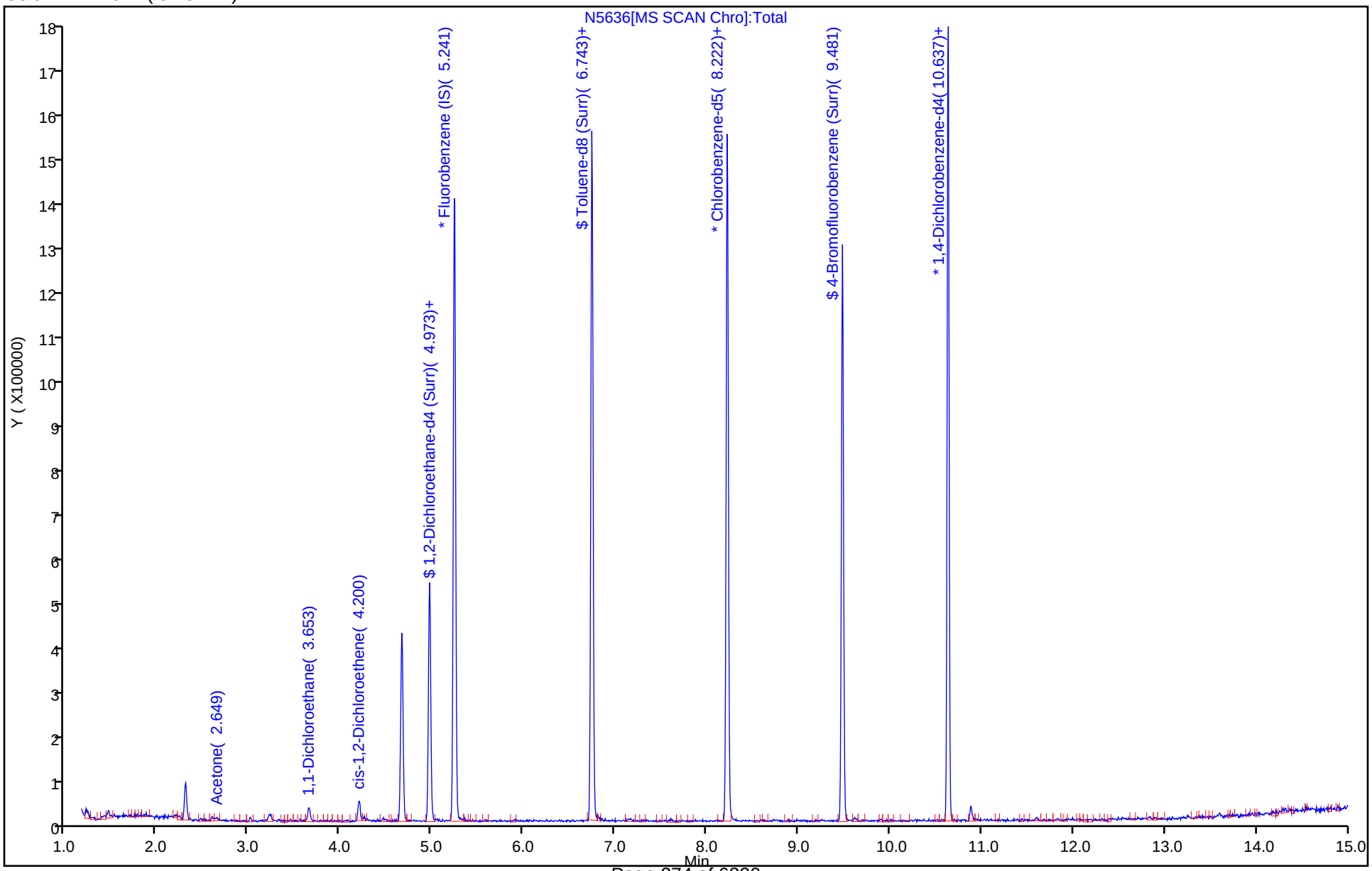
Report Date: 16-Jun-2022 11:12:35 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5636.D

Injection Date:	16-Jun-2022 01:37:30	Instrument ID:	HP5973N	Operator ID:	CR/AK
Lims ID:	480-198813-M-10	Lab Sample ID:	480-198813-10	Worklist Smp#:	20
Client ID:	MW-7A				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	40
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5636.D
Lims ID: 480-198813-M-10
Client ID: MW-7A
Sample Type: Client
Inject. Date: 16-Jun-2022 01:37:30 ALS Bottle#: 40 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198813-M-10
Misc. Info.: 480-0106089-020
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2022 11:12:35 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: RepkaC Date: 16-Jun-2022 11:12:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	20.9	83.46
$ 6 Toluene-d8 (Surr)	25.0	22.8	91.25
$ 7 4-Bromofluorobenzene (Surr)	25.0	26.5	105.81

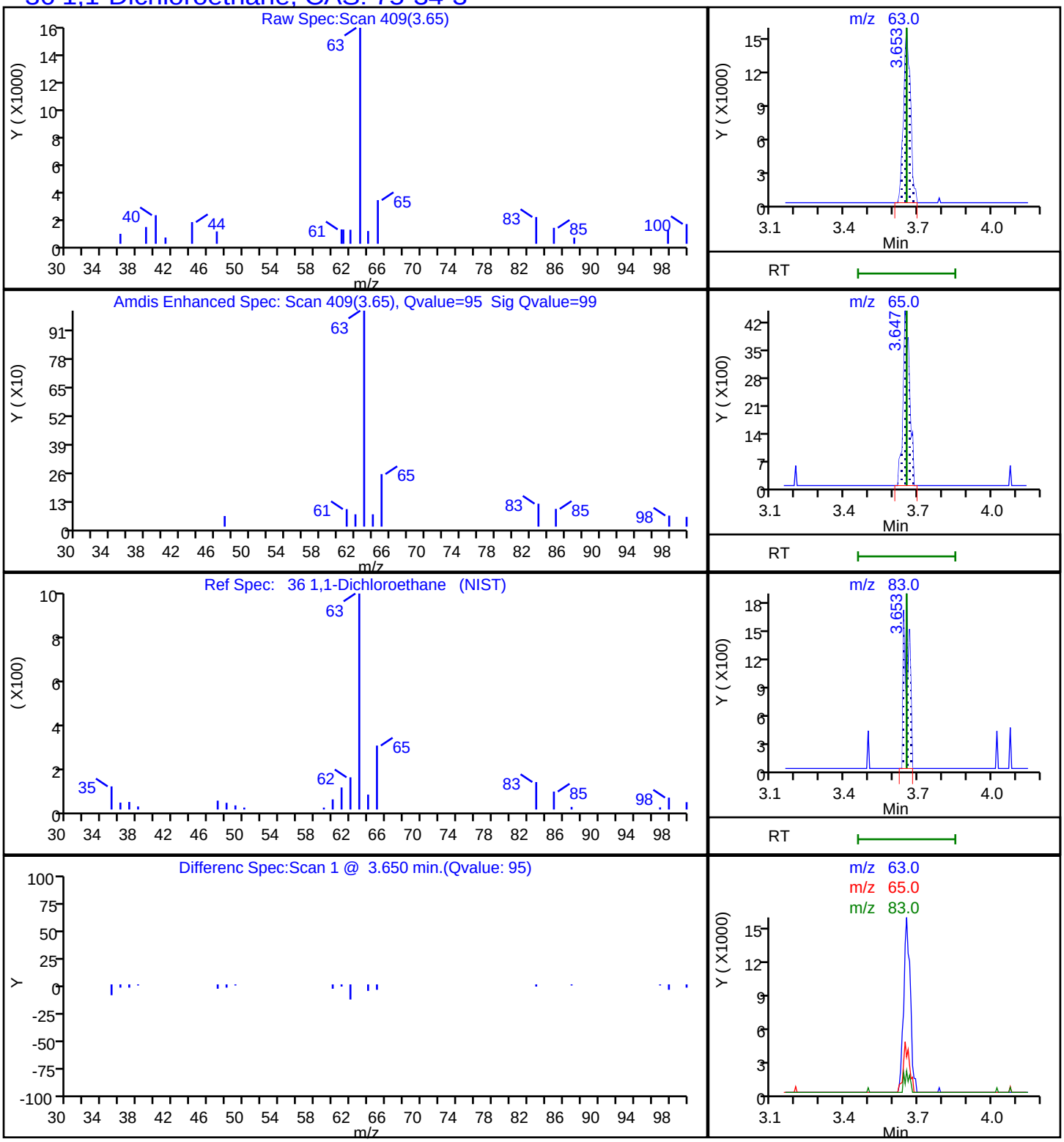
Report Date: 16-Jun-2022 11:12:36 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5636.D

Injection Date:	16-Jun-2022 01:37:30	Instrument ID:	HP5973N
Lims ID:	480-198813-M-10	Lab Sample ID:	480-198813-10
Client ID:	MW-7A		
Operator ID:	CR/AK	ALS Bottle#:	40 Worklist Smp#: 20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



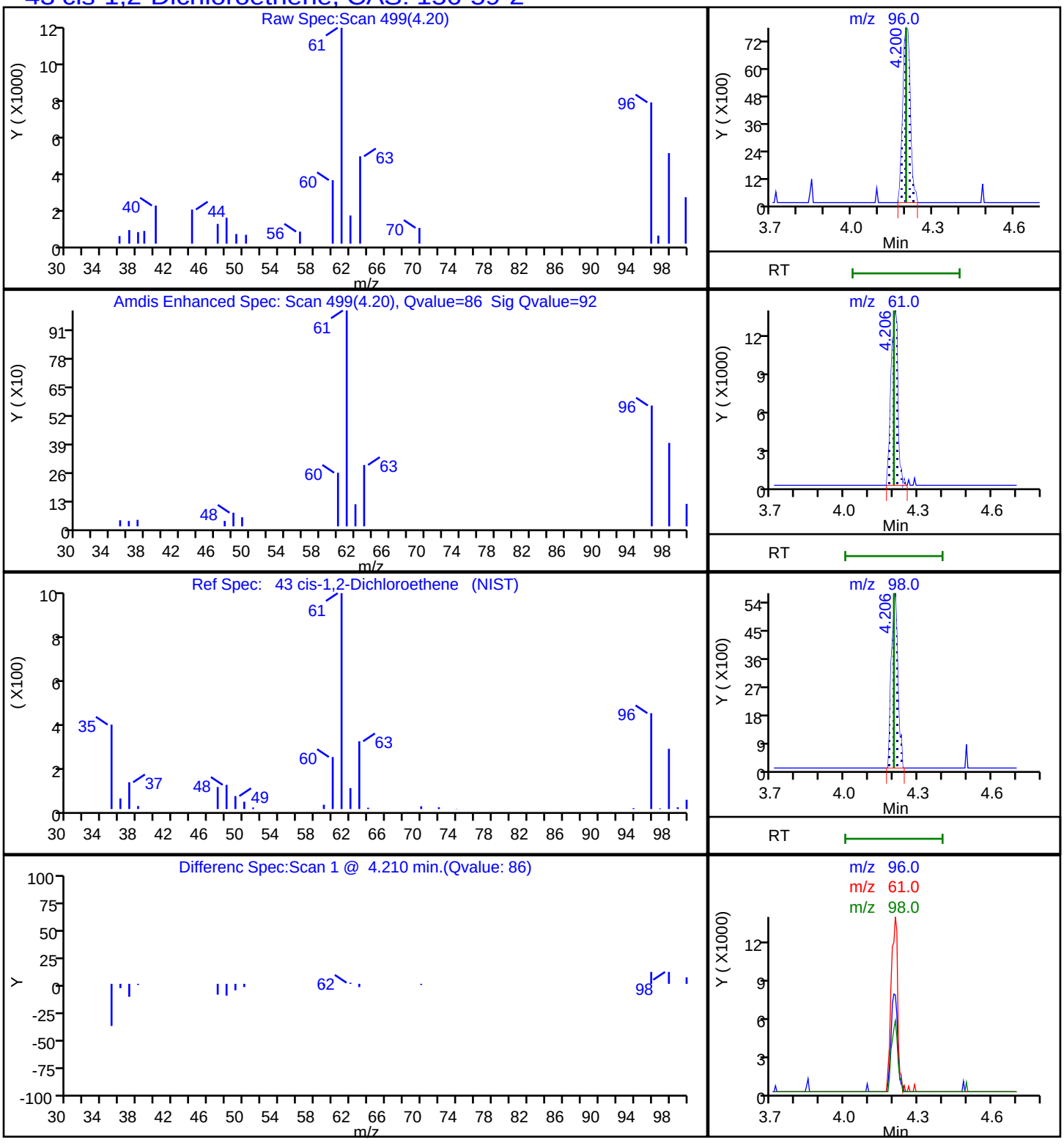
Report Date: 16-Jun-2022 11:12:36 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5636.D

Injection Date:	16-Jun-2022 01:37:30	Instrument ID:	HP5973N		
Lims ID:	480-198813-M-10	Lab Sample ID:	480-198813-10		
Client ID:	MW-7A				
Operator ID:	CR/AK	ALS Bottle#:	40	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

43 cis-1,2-Dichloroethene, CAS: 156-59-2



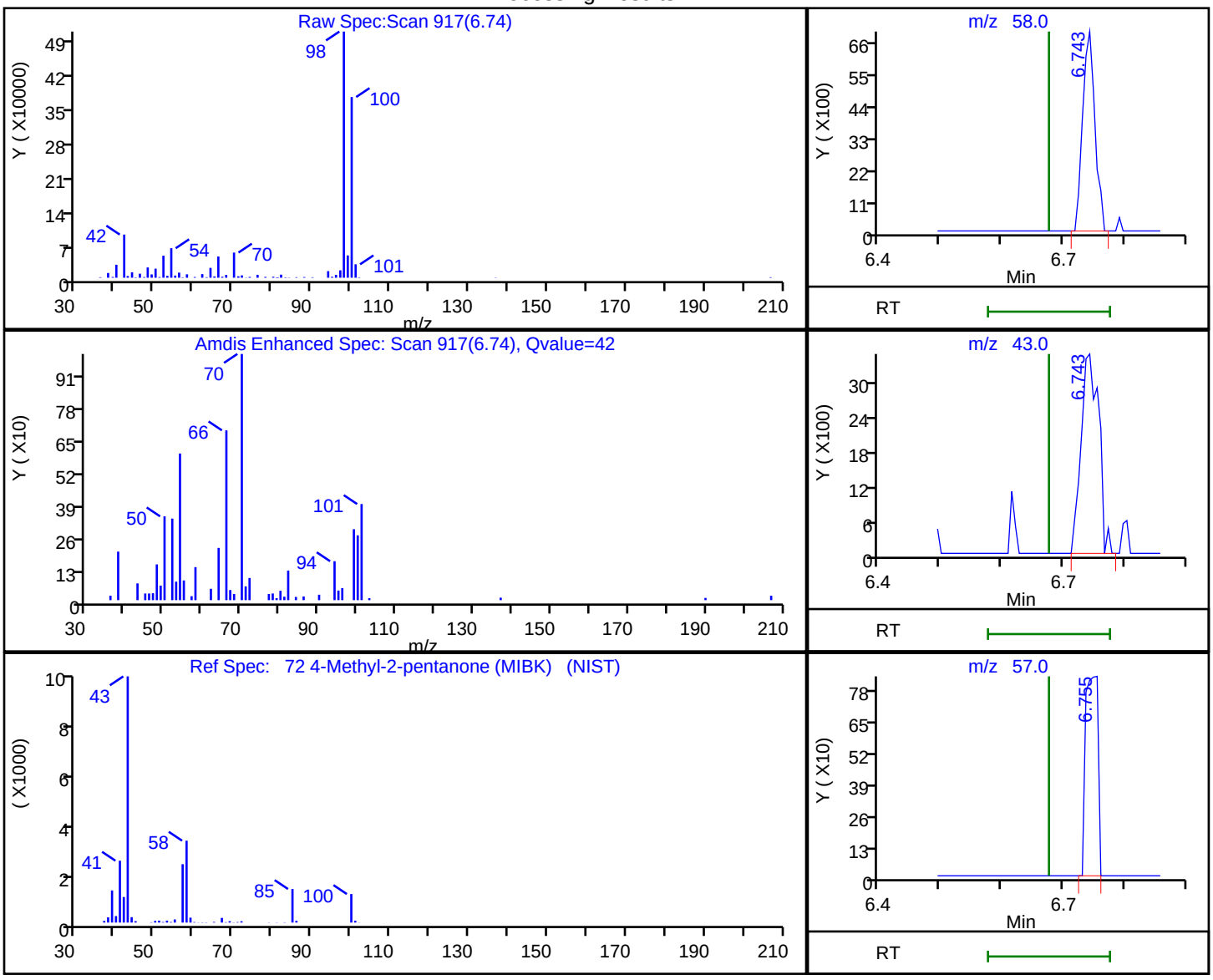
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5636.D				
Injection Date:	16-Jun-2022 01:37:30	Instrument ID:	HP5973N		
Lims ID:	480-198813-M-10	Lab Sample ID:	480-198813-10		
Client ID:	MW-7A				
Operator ID:	CR/AK	ALS Bottle#:	40	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.74	58.00	9700	1.227804
6.74	43.00	7040	
6.76	57.00	1186	

Reviewer: RepkaC, 16-Jun-2022 11:12:17

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

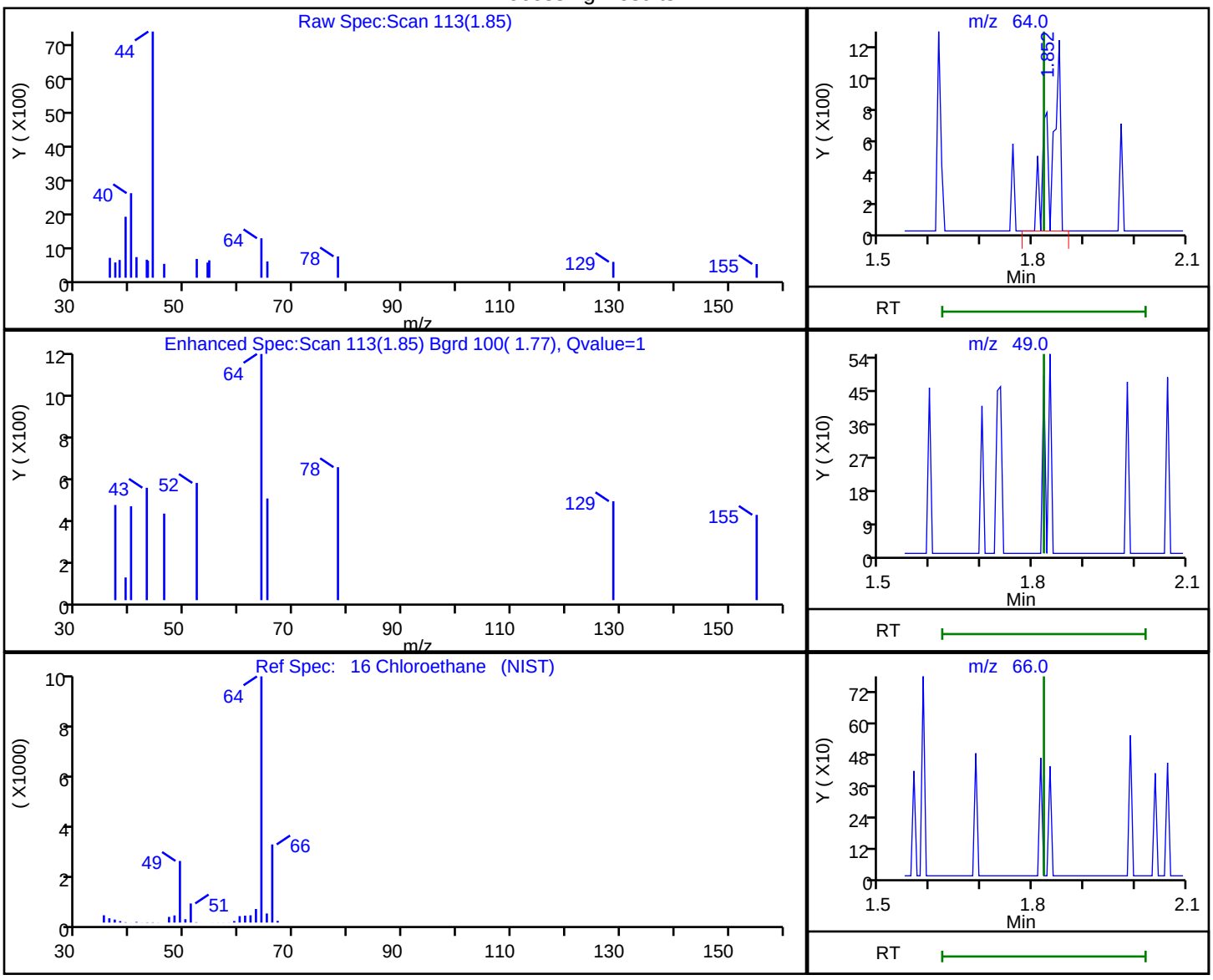
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5636.D				
Injection Date:	16-Jun-2022 01:37:30	Instrument ID:	HP5973N		
Lims ID:	480-198813-M-10	Lab Sample ID:	480-198813-10		
Client ID:	MW-7A				
Operator ID:	CR/AK	ALS Bottle#:	40	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

16 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
1.85	64.00	1563	0.182694
1.82	49.00	0	
1.82	66.00	0	

Reviewer: RepkaC, 16-Jun-2022 11:11:58

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

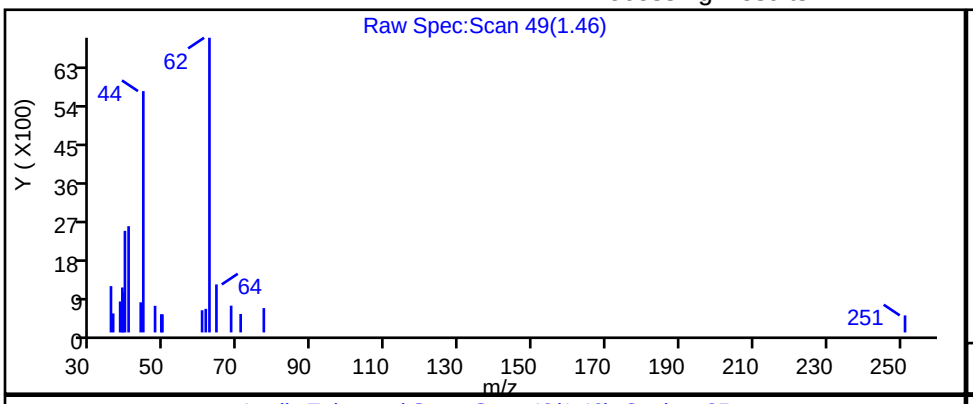
User Disabled Compound Report

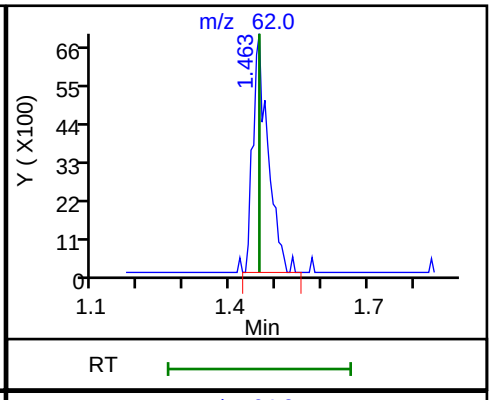
Eurofins Buffalo

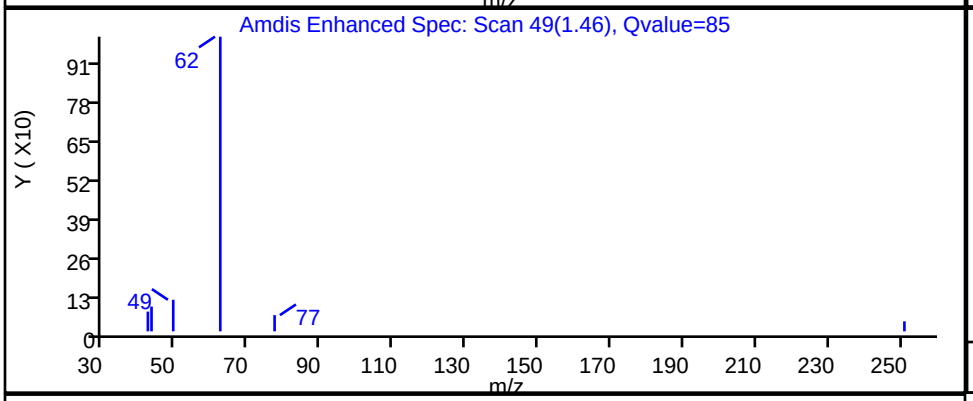
Data File:	\\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5636.D				
Injection Date:	16-Jun-2022 01:37:30	Instrument ID:	HP5973N		
Lims ID:	480-198813-M-10	Lab Sample ID:	480-198813-10		
Client ID:	MW-7A				
Operator ID:	CR/AK	ALS Bottle#:	40	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

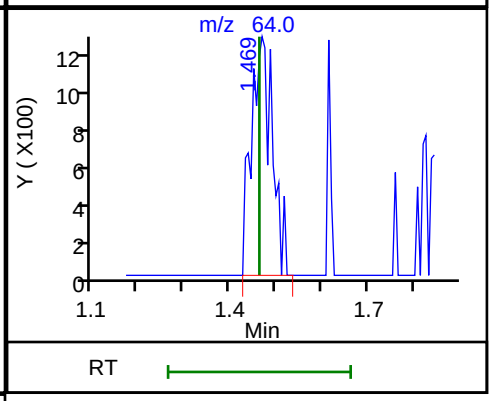
14 Vinyl chloride, CAS: 75-01-4

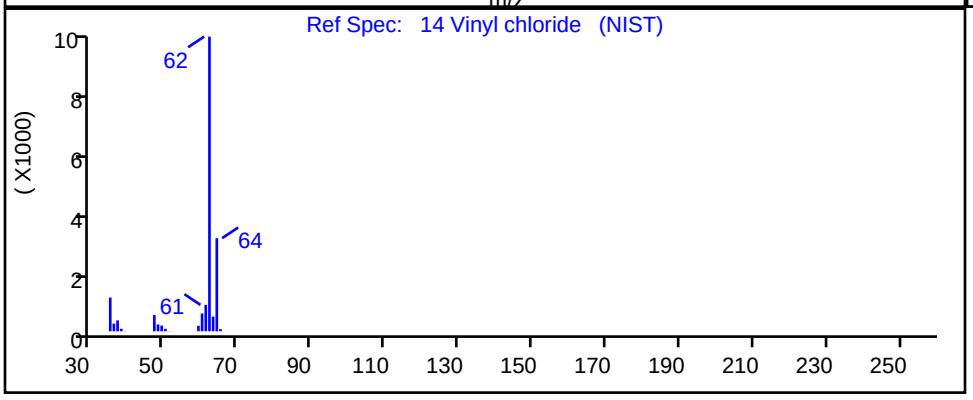
Processing Results











RT	Mass	Response	Amount
1.46	62.00	16009	1.332772
1.47	64.00	3983	

Reviewer: RepkaC, 16-Jun-2022 11:11:53

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: TRIP BLANK 1 | Lab Sample ID: 480-198813-11

Matrix: Water | Lab File ID: N5637.D

Analysis Method: 8260C | Date Collected: 06/08/2022 08:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/16/2022 02:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: TRIP BLANK 1 | Lab Sample ID: 480-198813-11

Matrix: Water | Lab File ID: N5637.D

Analysis Method: 8260C | Date Collected: 06/08/2022 08:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/16/2022 02:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		77-120
2037-26-5	Toluene-d8 (Surr)	91		80-120
460-00-4	4-Bromofluorobenzene (Surr)	107		73-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5637.D
Lims ID: 480-198813-A-11
Client ID: TRIP BLANK 1
Sample Type: Client
Inject. Date: 16-Jun-2022 02:00:30 ALS Bottle#: 41 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198813-A-11
Misc. Info.: 480-0106089-021
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2022 11:12:35 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: RepkaC Date: 16-Jun-2022 11:13:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.241	5.241	0.000	98	210145	25.0	
* 2 Chlorobenzene-d5	117	8.222	8.222	0.000	92	737359	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.637	10.637	0.000	96	402264	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.967	4.973	-0.006	98	322615	21.8	
$ 6 Toluene-d8 (Surr)	98	6.743	6.743	0.000	93	846166	22.8	
$ 7 4-Bromofluorobenzene (Surr)	174	9.481	9.481	0.000	90	324623	26.9	
13 Chloromethane	50		1.372				ND	
14 Vinyl chloride	62		1.463				ND	
15 Bromomethane	94		1.761				ND	
16 Chloroethane	64		1.822				ND	
18 Trichlorofluoromethane	101		2.047				ND	
22 1,1-Dichloroethene	96		2.509				ND	
23 Acetone	43	2.631	2.637	0.000	99	17057	2.40	
24 Iodomethane	142		2.667				ND	
25 Carbon disulfide	76		2.698				ND	
30 Methylene Chloride	84		3.014				ND	
33 trans-1,2-Dichloroethene	96		3.239				ND	
34 Acrylonitrile	53		3.300				ND	
36 1,1-Dichloroethane	63		3.653				ND	
39 Vinyl acetate	43		3.708				ND	7
43 cis-1,2-Dichloroethene	96		4.200				ND	
44 2-Butanone (MEK)	43		4.237				ND	
47 Chlorobromomethane	128		4.432				ND	
50 Chloroform	83		4.511				ND	
51 1,1,1-Trichloroethane	97		4.620				ND	
53 Carbon tetrachloride	117		4.760				ND	
55 Benzene	78		4.973				ND	
57 1,2-Dichloroethane	62		5.040				ND	
60 Trichloroethene	95		5.581				ND	
63 1,2-Dichloropropane	63		5.819				ND	
64 Dibromomethane	93		5.953				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
67 Dichlorobromomethane	83		6.111				ND	
71 cis-1,3-Dichloropropene	75		6.524				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.676				ND	
73 Toluene	92		6.810				ND	
75 trans-1,3-Dichloropropene	75		7.096				ND	
78 1,1,2-Trichloroethane	83		7.285				ND	
79 Tetrachloroethene	166		7.340				ND	
82 2-Hexanone	43		7.510				ND	
83 Chlorodibromomethane	129		7.674				ND	
84 Ethylene Dibromide	107		7.778				ND	
85 Chlorobenzene	112		8.252				ND	
88 Ethylbenzene	91		8.349				ND	
89 1,1,1,2-Tetrachloroethane	131		8.349				ND	
90 m-Xylene & p-Xylene	106		8.471				ND	
91 o-Xylene	106		8.897				ND	
92 Styrene	104		8.927				ND	
93 Bromoform	173		9.171				ND	
98 1,1,2,2-Tetrachloroethane	83		9.700				ND	
99 1,2,3-Trichloropropane	110		9.724				ND	
101 trans-1,4-Dichloro-2-butene	53		9.743				ND	
113 1,4-Dichlorobenzene	146		10.661				ND	
116 1,2-Dichlorobenzene	146		11.014				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.750				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

N_8260_Surr_00440	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00232	Amount Added:	1.00	Units: uL	Run Reagent

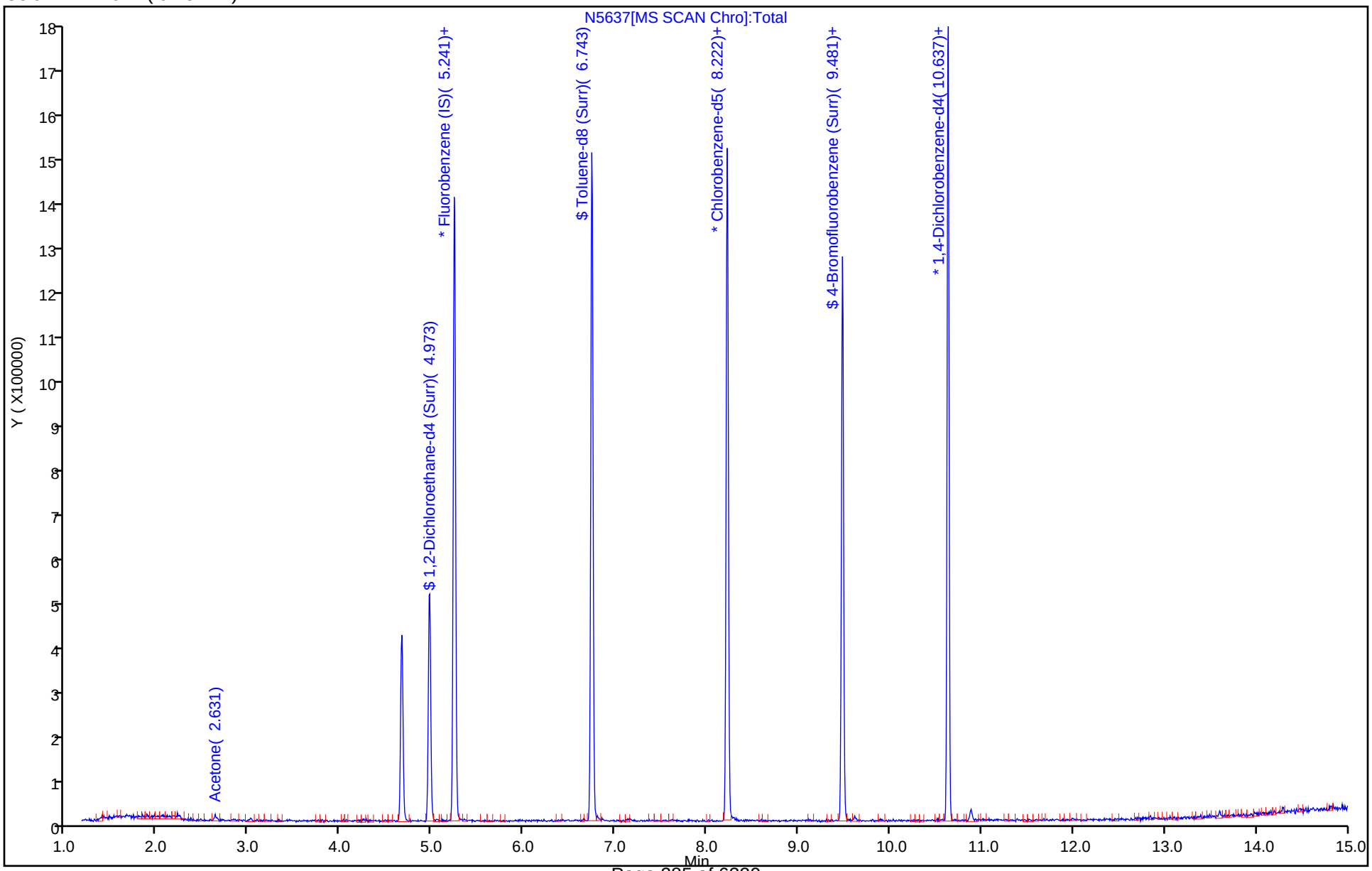
Report Date: 16-Jun-2022 11:13:01 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5637.D

Injection Date:	16-Jun-2022 02:00:30	Instrument ID:	HP5973N	Operator ID:	CR/AK
Lims ID:	480-198813-A-11	Lab Sample ID:	480-198813-11	Worklist Smp#:	21
Client ID:	TRIP BLANK 1				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	41
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5637.D
Lims ID: 480-198813-A-11
Client ID: TRIP BLANK 1
Sample Type: Client
Inject. Date: 16-Jun-2022 02:00:30 ALS Bottle#: 41 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-198813-A-11
Misc. Info.: 480-0106089-021
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2022 11:12:35 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: RepkaC Date: 16-Jun-2022 11:13:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	21.8	87.22
$ 6 Toluene-d8 (Surr)	25.0	22.8	91.28
$ 7 4-Bromofluorobenzene (Surr)	25.0	26.9	107.47

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 628923

SDG No.: 198720

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2022 17:50 Calibration End Date: 06/06/2022 20:33 Calibration ID: 43562

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-628923/9	N5156.D
Level 2	IC 480-628923/10	N5157.D
Level 3	IC 480-628923/11	N5158.D
Level 4	IC 480-628923/12	N5159.D
Level 5	IC 480-628923/13	N5160.D
Level 6	ICIS 480-628923/14	N5161.D
Level 7	IC 480-628923/15	N5162.D
Level 8	IC 480-628923/16	N5163.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.3704 1.4002	1.1472 1.2981	1.3652 1.2132	1.4325	1.5426	Ave		1.3462			0.1000	9.3		20.0			
Chloromethane	2.5489 2.2173	2.2876 2.0886	2.2226 1.9501	2.3843	2.3730	Ave		2.2591			0.1000	8.2		20.0			
Vinyl chloride	1.0971 1.5627	1.0733 1.4640	1.2857 1.4149	1.4840	1.5818	Ave		1.3704			0.1000	14.5		20.0			
Butadiene	1.6381 1.9210	1.8722 1.7418	1.8439 1.6849	1.9759	2.0155	Ave		1.8367				7.5		20.0			
Bromomethane	0.8020 0.8500	1.0008 0.7899	0.9186 0.7825	0.9606	0.9101	Ave		0.8768			0.1000	9.4		20.0			
Chloroethane	0.8859 0.9948	0.9856 0.9290	1.0209 0.8626	1.0668	1.0631	Ave		0.9761			0.1000	7.9		20.0			
Dichlorofluoromethane	2.4093 2.2228	2.3004 2.0844	2.1220 1.9776	2.3181	2.2605	Ave		2.2119				6.4		20.0			
Trichlorofluoromethane	1.9011 2.0716	1.8296 1.9245	1.6883 1.8396	2.0667	2.1818	Ave		1.9379			0.1000	8.3		20.0			
Ethyl ether	1.6806 1.5636	1.5471 1.5382	1.5164 1.4502	1.7229	1.6131	Ave		1.5790				5.6		20.0			
Acrolein	0.3936 0.3157	0.3718 0.3132	0.3032 0.3111	0.3060	0.3182	Ave		0.3291				10.3		20.0			
1,1-Dichloroethene	1.2694 1.0344	0.9423 1.0284	1.0122 0.9777	1.1095	1.1119	Ave		1.0607			0.1000	9.7		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	1.3278 1.1490	0.8748 1.0884	1.1025 1.0056	1.2443	1.2265	Ave		1.1274			0.1000	12.8		20.0			
Acetone	+++++ 0.8235	0.9470 0.8012	0.8408 0.7437	0.8991	0.8614	Ave		0.8452			0.1000	7.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 628923

SDG No.: 198720

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2022 17:50 Calibration End Date: 06/06/2022 20:33 Calibration ID: 43562

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Iodomethane	1.7589 1.9228	1.6563 1.8591	1.9855 1.7728	2.0346	1.8894	Ave		1.8599				6.8		20.0			
Carbon disulfide	3.4876 3.6714	3.1849 3.5176	3.4584 3.4402	3.8112	3.8657	Ave		3.5546			0.1000	6.2		20.0			
Allyl chloride	2.7249 2.8635	2.4553 2.7505	2.8200 2.5732	3.0170	3.0550	Ave		2.7824				7.3		20.0			
Methyl acetate	2.2306 1.8424	1.9926 1.8088	2.0059 1.7558	2.0479	1.9271	Ave		1.9514			0.1000	7.8		20.0			
Methylene Chloride	1.6332 1.3076	1.2278 1.2631	1.2626 1.2315	1.3987	1.3954	Lin1	0.1726	1.2565			0.1000	9.0			0.9990		0.9900
2-Methyl-2-propanol	0.2752 0.2392	0.2555 0.2359	0.2233 0.2143	0.2473	0.2447	Ave		0.2419				7.8		20.0			
Methyl tert-butyl ether	4.9048 4.5412	4.3489 4.4296	4.2805 4.3239	4.7121	4.5489	Ave		4.5112			0.1000	4.7		20.0			
trans-1,2-Dichloroethene	1.1533 1.2926	1.1459 1.2354	1.2363 1.1877	1.3784	1.3500	Ave		1.2474			0.1000	7.0		20.0			
Acrylonitrile	0.9955 0.9777	0.9249 0.9545	0.9251 0.9285	1.0267	0.9945	Ave		0.9659				4.0		20.0			
Hexane	+++++ 2.6613	2.2067 2.5589	2.4165 2.4282	2.8388	2.7817	Ave		2.5560				8.7		20.0			
1,1-Dichloroethane	3.2300 2.9295	2.6559 2.8022	3.0647 2.7365	3.0945	3.1533	Ave		2.9583			0.2000	7.1		20.0			
Vinyl acetate	5.5541 5.0973	4.5695 5.1752	4.8391 5.0968	5.1724	5.1173	Ave		5.0777				5.6		20.0			
2,2-Dichloropropane	1.9802 1.7647	1.6527 1.5518	1.7270 1.5395	1.9556	1.8738	Ave		1.7557				9.7		20.0			
cis-1,2-Dichloroethene	1.4833 1.4213	1.3012 1.4005	1.3876 1.3366	1.5658	1.4866	Ave		1.4228			0.1000	6.1		20.0			
2-Butanone (MEK)	+++++ 1.2355	1.3381 1.2342	1.2566 1.1724	1.3258	1.2684	Ave		1.2616			0.1000	4.5		20.0			
Chlorobromomethane	0.8771 0.7386	0.7079 0.7156	0.6784 0.6782	0.8056	0.7673	Ave		0.7461				9.2		20.0			
Tetrahydrofuran	+++++ 0.7826	0.8156 0.7758	0.7922 0.7208	0.8628	0.7828	Ave		0.7904				5.4		20.0			
Chloroform	3.0628 2.5659	2.5699 2.4532	2.4845 2.3564	2.6441	2.5816	Ave		2.5898			0.2000	8.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 628923

SDG No.: 198720

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2022 17:50 Calibration End Date: 06/06/2022 20:33 Calibration ID: 43562

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1,1-Trichloroethane	2.1243 2.2064	1.8960 2.1666	2.1035 2.0988	2.3347	2.3636	Ave		2.1617			0.1000	6.8		20.0			
Cyclohexane	3.0193 3.2169	2.7494 3.0389	2.7753 3.0384	3.2024	3.4688	Ave		3.0637			0.1000	7.7		20.0			
Carbon tetrachloride	2.2639 1.9905	1.6585 1.9359	1.8657 1.8476	1.9364	2.0723	Ave		1.9463			0.1000	9.1		20.0			
1,1-Dichloropropene	2.0869 1.9256	1.7085 1.8968	1.7874 1.8003	2.0882	2.0544	Ave		1.9185				7.7		20.0			
Benzene	5.9155 5.5740	4.9356 5.5086	5.5903 5.3194	5.8986	5.9407	Ave		5.5853			0.5000	6.2		20.0			
Isobutyl alcohol	0.1151 0.1106	0.1069 0.1094	0.1000 0.1003	0.1139	0.1122	Ave		0.1085				5.3		20.0			
1,2-Dichloroethane	3.5804 2.6972	2.8155 2.6589	2.8193 2.5692	2.9525	2.7915	Ave		2.8606			0.1000	11.0		20.0			
n-Heptane	+++++ 3.1204	2.7071 3.0179	2.8471 2.8239	3.1518	3.2177	Ave		2.9837				6.5		20.0			
Trichloroethene	1.5324 1.4248	1.3740 1.3877	1.3286 1.3232	1.5534	1.4544	Ave		1.4223			0.2000	6.1		20.0			
Methylcyclohexane	2.4818 2.3416	1.7931 2.2535	2.0953 2.1592	2.4756	2.4546	Ave		2.2568			0.1000	10.5		20.0			
1,2-Dichloropropane	1.8480 1.6400	1.3470 1.5877	1.5055 1.5408	1.5961	1.6579	Ave		1.5904			0.1000	9.0		20.0			
Dibromomethane	1.0351 0.9333	0.7843 0.9138	0.8793 0.8906	0.9804	0.9741	Ave		0.9239			0.1000	8.3		20.0			
1,4-Dioxane	0.0029 0.0033	0.0018 0.0035	0.0035 0.0031	0.0033	0.0029	Ave		0.0030				17.9		20.0			
Bromodichloromethane	1.9973 1.9261	1.7814 1.9171	1.7846 1.8741	2.0106	1.9736	Ave		1.9081			0.2000	4.7		20.0			
2-Chloroethyl vinyl ether	1.1454 1.1132	1.1465 1.1238	1.0873 1.1073	1.1397	1.1260	Ave		1.1237				1.8		20.0			
cis-1,3-Dichloropropene	2.2718 2.3002	1.8951 2.3765	2.1705 2.2768	2.4070	2.3263	Ave		2.2530			0.2000	7.2		20.0			
4-Methyl-2-pentanone (MIBK)	0.2817 0.2563	0.2442 0.2572	0.2495 0.2561	0.2574	0.2596	Ave		0.2577			0.1000	4.2		20.0			
Toluene	1.0457 1.0086	0.8871 1.0033	1.0038 1.0044	1.0425	1.0692	Ave		1.0081			0.4000	5.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 628923

SDG No.: 198720

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2022 17:50 Calibration End Date: 06/06/2022 20:33 Calibration ID: 43562

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
trans-1,3-Dichloropropene	0.6743 0.6425	0.5103 0.6400	0.6240 0.6718	0.6415	0.6205	Ave		0.6281			0.1000	8.2		20.0			
Ethyl methacrylate	0.5520 0.5440	0.4708 0.5543	0.5185 0.5596	0.5700	0.5010	Ave		0.5338				6.4		20.0			
1,1,2-Trichloroethane	0.3483 0.3003	0.2746 0.3071	0.3078 0.2998	0.3328	0.3121	Ave		0.3104			0.1000	7.2		20.0			
Tetrachloroethene	0.4521 0.4291	0.3368 0.4132	0.4550 0.4123	0.4317	0.4189	Ave		0.4186			0.2000	8.8		20.0			
1,3-Dichloropropane	0.6758 0.6314	0.6227 0.6371	0.6557 0.6340	0.6338	0.6361	Ave		0.6408				2.6		20.0			
2-Hexanone	0.5957 0.5051	0.4915 0.5101	0.5184 0.4984	0.5222	0.5094	Ave		0.5188			0.1000	6.3		20.0			
Dibromochloromethane	0.3852 0.4096	0.3063 0.3977	0.3744 0.4158	0.3774	0.3944	Ave		0.3826			0.1000	8.9		20.0			
1,2-Dibromoethane	0.4205 0.3855	0.3631 0.3828	0.3646 0.3858	0.3971	0.3960	Ave		0.3869				4.8		20.0			
Chlorobenzene	1.1296 1.1317	0.9585 1.1021	1.0334 1.1000	1.1432	1.1318	Ave		1.0913			0.5000	5.9		20.0			
Ethylbenzene	1.9891 1.8903	1.7008 1.9024	1.8161 1.9034	1.8658	1.9102	Ave		1.8723			0.1000	4.5		20.0			
1,1,1,2-Tetrachloroethane	0.4081 0.4272	0.3686 0.4062	0.4443 0.4227	0.4244	0.4183	Ave		0.4150				5.3		20.0			
m,p-Xylene	0.8679 0.7638	0.5652 0.7368	0.6981 0.7390	0.7465	0.7694	Ave		0.7358			0.1000	11.5		20.0			
o-Xylene	0.8260 0.7372	0.5803 0.7145	0.6789 0.7257	0.7038	0.7512	Ave		0.7147			0.3000	9.7		20.0			
Styrene	1.2078 1.2617	0.9466 1.2650	1.0434 1.2684	1.2019	1.2205	Ave		1.1769			0.3000	10.0		20.0			
Bromoform	0.1946 0.2609	0.1891 0.2728	0.2466 0.2779	0.2496	0.2467	Ave		0.2423			0.1000	13.7		20.0			
Isopropylbenzene	4.0987 3.9129	2.9943 3.8112	3.4349 3.8742	3.8384	3.9636	Ave		3.7410			0.1000	9.5		20.0			
Bromobenzene	1.0837 0.9088	0.8112 0.8610	0.8594 0.8678	0.9361	0.8912	Ave		0.9024				9.1		20.0			
1,1,2,2-Tetrachloroethane	0.9144 0.9906	0.9810 0.9712	0.9835 0.9771	1.0284	1.0060	Ave		0.9815			0.3000	3.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 628923

SDG No.: 198720

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2022 17:50 Calibration End Date: 06/06/2022 20:33 Calibration ID: 43562

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
N-Propylbenzene	4.3772 4.4863	3.4109 4.3187	3.9857 4.3904	4.3715	4.4212	Ave		4.2202				8.5		20.0			
1,2,3-Trichloropropane	0.3280 0.3342	0.2696 0.3065	0.3739 0.3118	0.3139	0.3345	Ave		0.3215				9.2		20.0			
trans-1,4-Dichloro-2-butene	0.3626 0.4605	0.3977 0.4692	0.4686 0.4682	0.4275	0.4583	Ave		0.4391				9.1		20.0			
2-Chlorotoluene	0.8443 0.8429	0.6364 0.8168	0.8377 0.8038	0.8956	0.8847	Ave		0.8203				9.8		20.0			
1,3,5-Trimethylbenzene	3.0486 3.2626	2.5240 3.1457	2.9678 3.2184	3.1793	3.2062	Ave		3.0691				7.8		20.0			
4-Chlorotoluene	2.6596 3.0570	2.3429 2.9722	2.5103 2.7924	2.8692	3.0560	Ave		2.7824				9.4		20.0			
tert-Butylbenzene	0.6898 0.6556	0.5409 0.6488	0.6009 0.6470	0.6282	0.6974	Ave		0.6386				7.9		20.0			
1,2,4-Trimethylbenzene	3.2086 3.2597	2.5187 3.2203	2.9107 3.2532	3.2031	3.3313	Ave		3.1132				8.7		20.0			
sec-Butylbenzene	3.5424 4.1406	3.2670 3.9793	3.6089 4.0295	4.0637	4.2420	Ave		3.8592				8.9		20.0			
1,3-Dichlorobenzene	1.6829 1.7445	1.5007 1.6769	1.6617 1.6508	1.7835	1.8066	Ave		1.6885			0.6000	5.6		20.0			
4-Isopropyltoluene	3.2491 3.4609	2.7496 3.4291	2.9129 3.4427	3.4435	3.5295	Ave		3.2772				8.8		20.0			
1,4-Dichlorobenzene	1.6902 1.7595	1.6296 1.7154	1.7148 1.6904	1.7817	1.8557	Ave		1.7297			0.5000	4.0		20.0			
n-Butylbenzene	2.9285 3.0728	2.3656 2.9853	2.8926 2.9600	3.0652	3.0884	Ave		2.9198				8.1		20.0			
1,2-Dichlorobenzene	1.8998 1.7106	1.3780 1.6122	1.6566 1.6030	1.6853	1.7484	Ave		1.6618			0.4000	8.9		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.2052	0.2267 0.2038	0.1863 0.2098	0.1848	0.2160	Ave		0.2046			0.0500	7.4		20.0			
1,2,4-Trichlorobenzene	0.9117 1.1822	0.9770 1.0937	1.1417 1.0549	1.2115	1.1788	Ave		1.0940			0.2000	9.7		20.0			
Hexachlorobutadiene	0.4634 0.5564	0.4790 0.5319	0.4764 0.5185	0.6163	0.6002	Ave		0.5303				10.8		20.0			
Naphthalene	2.7450 3.3053	2.8115 3.1605	2.8241 3.1335	3.0547	3.1595	Ave		3.0243				6.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 628923

SDG No.: 198720

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2022 17:50 Calibration End Date: 06/06/2022 20:33 Calibration ID: 43562

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trichlorobenzene	0.9707 1.1020	1.0345 1.0656	0.9919 1.0070	1.1135	1.0732	Ave		1.0448				5.0		20.0			
Dibromofluoromethane (Surr)	1.1993 1.1805	1.2222 1.2095	1.1584 1.1566	1.2126	1.2125	Ave		1.1940				2.1		20.0			
1,2-Dichloroethane-d4 (Surr)	1.7681 1.7607	1.8357 1.7699	1.7049 1.6543	1.7962	1.7909	Ave		1.7601				3.2		20.0			
Toluene-d8 (Surr)	1.2525 1.2567	1.2666 1.2552	1.2560 1.2591	1.2363	1.2749	Ave		1.2572				0.9		20.0			
4-Bromofluorobenzene (Surr)	0.4117 0.4140	0.4067 0.4116	0.4102 0.4117	0.4009	0.4103	Ave		0.4096				1.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 628923

SDG No.: 198720

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2022 17:50 Calibration End Date: 06/06/2022 20:33 Calibration ID: 43562

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-628923/9	N5156.D
Level 2	IC 480-628923/10	N5157.D
Level 3	IC 480-628923/11	N5158.D
Level 4	IC 480-628923/12	N5159.D
Level 5	IC 480-628923/13	N5160.D
Level 6	ICIS 480-628923/14	N5161.D
Level 7	IC 480-628923/15	N5162.D
Level 8	IC 480-628923/16	N5163.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	6409 312962	9925 604306	24974 1193743	62769	136181	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	11921 495581	19792 972295	40658 1918897	104474	209493	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	5131 349288	9286 681501	23520 1392226	65025	139643	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	7661 429367	16198 810842	33732 1657944	86579	177928	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	3751 189974	8659 367691	16805 769980	42093	80347	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	4143 222357	8527 432454	18676 848778	46745	93851	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	11268 496808	19903 970339	38818 1945938	101576	199558	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	8891 463016	15829 895907	30884 1810143	90557	192618	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	7860 349478	13385 716051	27740 1426944	75493	142411	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	9203 352858	16084 729059	27732 1530506	67049	140469	2.50 125	5.00 250	10.0 500	25.0	50.0
1,1-Dichloroethene	FB	Ave	5937 231198	8153 478722	18516 962050	48614	98165	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	6210 256813	7569 506686	20168 989444	54521	108281	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	+++++	40968	76902	196973	380244	+++++	5.00	10.0	25.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 628923

SDG No.: 198720

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2022 17:50 Calibration End Date: 06/06/2022 20:33 Calibration ID: 43562

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			920252	1864953	3659148			125	250	500		
Iodomethane	FB	Ave	8226 429767	14330 865462	36321 1744434	89151	166799	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	16311 820586	27555 1637524	63266 3385122	166998	341272	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Allyl chloride	FB	Ave	12744 640022	21243 1280415	51588 2532019	132200	269702	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	20864 823576	34480 1684036	73390 3455299	179468	340255	1.00 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	7638 292268	10623 587995	23098 1211796	61286	123192	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	12871 534726	22105 1098049	40857 2108928	108357	216047	5.00 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	22939 1015014	37626 2062050	78304 4254629	206474	401587	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	5394 288919	9914 575092	22616 1168676	60397	119178	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	46560 2185367	80024 4443401	169223 9135988	449899	877960	5.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	+++++ 594827	19092 1191207	44206 2389259	124390	245576	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	15106 654782	22978 1304457	56063 2692683	135593	278383	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	51951 2278614	79070 4818362	177047 10030202	453289	903528	1.00 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	9261 394428	14299 722401	31592 1514804	85689	165424	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	6937 317669	11258 651944	25384 1315165	68608	131239	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	+++++ 1380714	57885 2872698	114935 5768174	290478	559899	+++++ 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	4102 165079	6125 333121	12411 667318	35298	67739	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	+++++ 349843	14113 722301	28983 1418506	75616	138218	+++++ 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	14324	22234	45450	115857	227907	0.500	1.00	2.00	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 628923

SDG No.: 198720

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2022 17:50 Calibration End Date: 06/06/2022 20:33 Calibration ID: 43562

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			573506	1142017	2318630			25.0	50.0	100		
1,1,1-Trichloroethane	FB	Ave	9935 493160	16404 1008617	38480 2065129	102300	208662	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	14121 719000	23787 1414650	50770 2989683	140322	306231	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	10588 444902	14349 901177	34130 1818003	84849	182945	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	9760 430392	14782 883005	32697 1771493	91502	181366	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Benzene	FB	Ave	27666 1245853	42702 2564347	102265 5234210	258463	524459	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Isobutyl alcohol	FB	Ave	13452 617964	23125 1272817	45723 2467369	124779	247723	12.5 625	25.0 1250	50.0 2500	125	250
1,2-Dichloroethane	FB	Ave	16745 602848	24359 1237753	51575 2528025	129374	246443	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	+++++ 697432	23421 1404897	52083 2778614	138107	284068	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	7167 318457	11888 645991	24305 1301956	68068	128395	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	11607 523379	15514 1049046	38330 2124581	108477	216696	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	8643 366565	11654 739105	27541 1516069	69938	146364	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	4841 208604	6786 425412	16086 876331	42957	85997	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Ave	981 51381	1115 115405	4266 202767	10270	17754	10.0 500	20.0 1000	40.0 2000	100	200
Bromodichloromethane	FB	Ave	9341 430492	15412 892448	32647 1844092	88100	174234	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	5357 248815	9919 523157	19890 1089591	49940	99408	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	10625 514121	16396 1106289	39705 2240340	105469	205373	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	23601	37100	76605	201852	402660	2.50	5.00	10.0	25.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 628923

SDG No.: 198720

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2022 17:50 Calibration End Date: 06/06/2022 20:33 Calibration ID: 43562

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			987031	2100901	4199607			125	250	500		
Toluene	CBNZ d5	Ave	17520	26959	61650	163517	331753	0.500	1.00	2.00	5.00	10.0
			776868	1639342	3293689			25.0	50.0	100		
trans-1,3-Dichloropropene	CBNZ d5	Ave	11297	15506	38323	100616	192537	0.500	1.00	2.00	5.00	10.0
			494929	1045650	2203087			25.0	50.0	100		
Ethyl methacrylate	CBNZ d5	Ave	9249	14307	31846	89400	155434	0.500	1.00	2.00	5.00	10.0
			419005	905766	1835061			25.0	50.0	100		
1,1,2-Trichloroethane	CBNZ d5	Ave	5836	8345	18906	52195	96832	0.500	1.00	2.00	5.00	10.0
			231333	501774	983202			25.0	50.0	100		
Tetrachloroethene	CBNZ d5	Ave	7574	10234	27945	67708	129977	0.500	1.00	2.00	5.00	10.0
			330483	675164	1352157			25.0	50.0	100		
1,3-Dichloropropane	CBNZ d5	Ave	11323	18924	40272	99408	197357	0.500	1.00	2.00	5.00	10.0
			486369	1040975	2078963			25.0	50.0	100		
2-Hexanone	CBNZ d5	Ave	49903	74684	159184	409518	790264	2.50	5.00	10.0	25.0	50.0
			1945402	4167268	8171766			125	250	500		
Dibromochloromethane	CBNZ d5	Ave	6454	9307	22998	59193	122386	0.500	1.00	2.00	5.00	10.0
			315513	649826	1363507			25.0	50.0	100		
1,2-Dibromoethane	CBNZ d5	Ave	7045	11035	22393	62291	122854	0.500	1.00	2.00	5.00	10.0
			296930	625548	1265062			25.0	50.0	100		
Chlorobenzene	CBNZ d5	Ave	18926	29128	63469	179310	351169	0.500	1.00	2.00	5.00	10.0
			871734	1800801	3607199			25.0	50.0	100		
Ethylbenzene	CBNZ d5	Ave	33326	51686	111543	292646	592682	0.500	1.00	2.00	5.00	10.0
			1456041	3108410	6241810			25.0	50.0	100		
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	6837	11201	27291	66566	129777	0.500	1.00	2.00	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 628923

SDG No.: 198720

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2022 17:50 Calibration End Date: 06/06/2022 20:33 Calibration ID: 43562

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			329020	663689	1386090			25.0	50.0	100		
m,p-Xylene	CBNZ d5	Ave	14540	17175	42877	117091	238725	0.500	1.00	2.00	5.00	10.0
			588312	1203940	2423574			25.0	50.0	100		
o-Xylene	CBNZ d5	Ave	13839	17636	41695	110391	233083	0.500	1.00	2.00	5.00	10.0
			567822	1167412	2379974			25.0	50.0	100		
Styrene	CBNZ d5	Ave	20236	28766	64085	188516	378701	0.500	1.00	2.00	5.00	10.0
			971868	2067009	4159455			25.0	50.0	100		
Bromoform	CBNZ d5	Ave	3261	5748	15144	39150	76546	0.500	1.00	2.00	5.00	10.0
			200969	445765	911208			25.0	50.0	100		
Isopropylbenzene	DCBd 4	Ave	35316	47356	112444	303975	618015	0.500	1.00	2.00	5.00	10.0
			1537083	3234366	6524815			25.0	50.0	100		
Bromobenzene	DCBd 4	Ave	9338	12830	28134	74135	138964	0.500	1.00	2.00	5.00	10.0
			356989	730688	1461586			25.0	50.0	100		
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	7879	15515	32196	81444	156859	0.500	1.00	2.00	5.00	10.0
			389118	824161	1645595			25.0	50.0	100		
N-Propylbenzene	DCBd 4	Ave	37716	53946	130473	346190	689363	0.500	1.00	2.00	5.00	10.0
			1762335	3665062	7394161			25.0	50.0	100		
1,2,3-Trichloropropane	DCBd 4	Ave	2826	4264	12239	24857	52163	0.500	1.00	2.00	5.00	10.0
			131271	260083	525120			25.0	50.0	100		
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	3124	6290	15339	33855	71459	0.500	1.00	2.00	5.00	10.0
			180905	398168	788532			25.0	50.0	100		
2-Chlorotoluene	DCBd 4	Ave	7275	10065	27423	70926	137943	0.500	1.00	2.00	5.00	10.0
			331109	693167	1353664			25.0	50.0	100		
1,3,5-Trimethylbenzene	DCBd 4	Ave	26268	39919	97152	251780	499921	0.500	1.00	2.00	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 628923

SDG No.: 198720

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2022 17:50 Calibration End Date: 06/06/2022 20:33 Calibration ID: 43562

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			1281649	2669566	5420238			25.0	50.0	100		
4-Chlorotoluene	DCBd 4	Ave	22916	37054	82178	227223	476490	0.500	1.00	2.00	5.00	10.0
			1200850	2522366	4702765			25.0	50.0	100		
tert-Butylbenzene	DCBd 4	Ave	5944	8555	19672	49746	108732	0.500	1.00	2.00	5.00	10.0
			257543	550576	1089703			25.0	50.0	100		
1,2,4-Trimethylbenzene	DCBd 4	Ave	27647	39835	95283	253665	519425	0.500	1.00	2.00	5.00	10.0
			1280507	2732892	5478921			25.0	50.0	100		
sec-Butylbenzene	DCBd 4	Ave	30523	51670	118139	321814	661417	0.500	1.00	2.00	5.00	10.0
			1626549	3377020	6786333			25.0	50.0	100		
1,3-Dichlorobenzene	DCBd 4	Ave	14501	23734	54396	141243	281687	0.500	1.00	2.00	5.00	10.0
			685298	1423096	2780273			25.0	50.0	100		
4-Isopropyltoluene	DCBd 4	Ave	27996	43487	95355	272701	550320	0.500	1.00	2.00	5.00	10.0
			1359517	2910063	5797978			25.0	50.0	100		
1,4-Dichlorobenzene	DCBd 4	Ave	14564	25773	56134	141098	289342	0.500	1.00	2.00	5.00	10.0
			691187	1455723	2846902			25.0	50.0	100		
n-Butylbenzene	DCBd 4	Ave	25233	37414	94692	242744	481553	0.500	1.00	2.00	5.00	10.0
			1207064	2533481	4985092			25.0	50.0	100		
1,2-Dichlorobenzene	DCBd 4	Ave	16370	21794	54231	133467	272616	0.500	1.00	2.00	5.00	10.0
			671986	1368186	2699776			25.0	50.0	100		
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++	3585	6100	14634	33672	+++++	1.00	2.00	5.00	10.0
			80597	172935	353365			25.0	50.0	100		
1,2,4-Trichlorobenzene	DCBd 4	Ave	7856	15452	37374	95943	183804	0.500	1.00	2.00	5.00	10.0
			464406	928195	1776575			25.0	50.0	100		
Hexachlorobutadiene	DCBd 4	Ave	3993	7576	15594	48804	93582	0.500	1.00	2.00	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 628923

SDG No.: 198720

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2022 17:50 Calibration End Date: 06/06/2022 20:33 Calibration ID: 43562

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			218569	451397	873162			25.0	50.0	100		
Naphthalene	DCBd 4	Ave	23652	44466	92450	241909	492630	0.500	1.00	2.00	5.00	10.0
			1298406	2682127	5277288			25.0	50.0	100		
1,2,3-Trichlorobenzene	DCBd 4	Ave	8364	16361	32470	88179	167337	0.500	1.00	2.00	5.00	10.0
			432878	904316	1695971			25.0	50.0	100		
Dibromofluoromethane (Surr)	FB	Ave	280446	264363	264883	265663	267604	25.0	25.0	25.0	25.0	25.0
			263859	281517	284524			25.0	25.0	25.0		
1,2-Dichloroethane-d4 (Surr)	FB	Ave	413460	397051	389843	393531	395266	25.0	25.0	25.0	25.0	25.0
			393539	411973	406939			25.0	25.0	25.0		
Toluene-d8 (Surr)	CBNZ d5	Ave	1049206	962293	964298	969551	988933	25.0	25.0	25.0	25.0	25.0
			968003	1025439	1032263			25.0	25.0	25.0		
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	344903	308943	314936	314410	318256	25.0	25.0	25.0	25.0	25.0
			318893	336304	337527			25.0	25.0	25.0		

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 628923

SDG No.: 198720

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2022 17:50 Calibration End Date: 06/06/2022 20:33 Calibration ID: 43562

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-628923/9	N5156.D
Level 2	IC 480-628923/10	N5157.D
Level 3	IC 480-628923/11	N5158.D
Level 4	IC 480-628923/12	N5159.D
Level 5	IC 480-628923/13	N5160.D
Level 6	ICIS 480-628923/14	N5161.D
Level 7	IC 480-628923/15	N5162.D
Level 8	IC 480-628923/16	N5163.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	1.8						30					
Chloromethane	12.8						30					
Vinyl chloride	-19.9						30					
Butadiene	-10.8						30					
Bromomethane	-8.5						30					
Chloroethane	-9.2						30					
Dichlorofluoromethane	8.9						30					
Trichlorofluoromethane	-1.9						30					
Ethyl ether	6.4						30					
Acrolein	19.6						30					
1,1-Dichloroethene	19.7						30					
1,1,2-Trichloro-1,2,2-trifluoroethane	17.8						30					
Acetone	+++++	12.0						30				
Iodomethane	-5.4						30					
Carbon disulfide	-1.9						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 628923

SDG No.: 198720

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2022 17:50 Calibration End Date: 06/06/2022 20:33 Calibration ID: 43562

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Allyl chloride	-2.1						30					
Methyl acetate	14.3						30					
Methylene Chloride	2.5						30					
2-Methyl-2-propanol	13.8						30					
Methyl tert-butyl ether	8.7						30					
trans-1,2-Dichloroethene	-7.5						30					
Acrylonitrile	3.1						30					
Hexane	+++++	-13.7						30				
1,1-Dichloroethane	9.2						30					
Vinyl acetate	9.4						30					
2,2-Dichloropropane	12.8						30					
cis-1,2-Dichloroethene	4.2						30					
2-Butanone (MEK)	+++++	6.1						30				
Chlorobromomethane	17.6						30					
Tetrahydrofuran	+++++	3.2						30				
Chloroform	18.3						30					
1,1,1-Trichloroethane	-1.7						30					
Cyclohexane	-1.4						30					
Carbon tetrachloride	16.3						30					
1,1-Dichloropropene	8.8						30					
Benzene	5.9						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 628923

SDG No.: 198720

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2022 17:50 Calibration End Date: 06/06/2022 20:33 Calibration ID: 43562

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Isobutyl alcohol	6.0						30					
1,2-Dichloroethane	25.2						30					
n-Heptane	+++++	-9.3						30				
Trichloroethene	7.7						30					
Methylcyclohexane	10.0						30					
1,2-Dichloropropane	16.2						30					
Dibromomethane	12.0						30					
1,4-Dioxane	-3.7						30					
Bromodichloromethane	4.7						30					
2-Chloroethyl vinyl ether	1.9						30					
cis-1,3-Dichloropropene	0.8						30					
4-Methyl-2-pentanone (MIBK)	9.3						30					
Toluene	3.7						30					
trans-1,3-Dichloropropene	7.4						30					
Ethyl methacrylate	3.4						30					
1,1,2-Trichloroethane	12.2						30					
Tetrachloroethene	8.0						30					
1,3-Dichloropropane	5.5						30					
2-Hexanone	14.8						30					
Dibromochloromethane	0.7						30					
1,2-Dibromoethane	8.7						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 628923

SDG No.: 198720

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2022 17:50 Calibration End Date: 06/06/2022 20:33 Calibration ID: 43562

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Chlorobenzene	3.5						30					
Ethylbenzene	6.2						30					
1,1,1,2-Tetrachloroethane	-1.7						30					
m,p-Xylene	17.9						30					
o-Xylene	15.6						30					
Styrene	2.6						30					
Bromoform	-19.7						30					
Isopropylbenzene	9.6						30					
Bromobenzene	20.1						30					
1,1,2,2-Tetrachloroethane	-6.8						30					
N-Propylbenzene	3.7						30					
1,2,3-Trichloropropane	2.0						30					
trans-1,4-Dichloro-2-butene	-17.4						30					
2-Chlorotoluene	2.9						30					
1,3,5-Trimethylbenzene	-0.7						30					
4-Chlorotoluene	-4.4						30					
tert-Butylbenzene	8.0						30					
1,2,4-Trimethylbenzene	3.1						30					
sec-Butylbenzene	-8.2						30					
1,3-Dichlorobenzene	-0.3						30					
4-Isopropyltoluene	-0.9						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 628923

SDG No.: 198720

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/06/2022 17:50 Calibration End Date: 06/06/2022 20:33 Calibration ID: 43562

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dichlorobenzene	-2.3						30					
n-Butylbenzene	0.3						30					
1,2-Dichlorobenzene	14.3						30					
1,2-Dibromo-3-Chloropropane	+++++	10.8						30				
1,2,4-Trichlorobenzene	-16.7						30					
Hexachlorobutadiene	-12.6						30					
Naphthalene	-9.2						30					
1,2,3-Trichlorobenzene	-7.1						30					
Dibromofluoromethane (Surr)	0.4						30					
1,2-Dichloroethane-d4 (Surr)	0.5						30					
Toluene-d8 (Surr)	-0.4						30					
4-Bromofluorobenzene (Surr)	0.5						30					

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5156.D
Lims ID: IC 0.5
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 06-Jun-2022 17:50:30 ALS Bottle#: 29 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 0.5
Misc. Info.: 480-0105916-009
Operator ID: LH Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jun-2022 10:08:18 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: HillL Date: 07-Jun-2022 09:33:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.241	5.241	0.000	97	233842	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.222	8.222	0.000	92	837698	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.637	10.637	0.000	96	430824	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.669	4.669	0.000	92	280446	25.0	25.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.973	4.973	0.000	98	413460	25.0	25.1	
$ 6 Toluene-d8 (Surr)	98	6.743	6.743	0.000	95	1049206	25.0	24.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.481	9.481	0.000	87	344903	25.0	25.1	
11 Dichlorodifluoromethane	85	1.226	1.207	0.019	31	6409	0.5000	0.5090	
13 Chloromethane	50	1.372	1.371	0.001	55	11921	0.5000	0.5642	
14 Vinyl chloride	62	1.463	1.457	0.006	46	5131	0.5000	0.4003	
144 Butadiene	54	1.487	1.475	0.012	0	7661	0.5000	0.4459	M
15 Bromomethane	94	1.791	1.761	0.030	8	3751	0.5000	0.4574	M
16 Chloroethane	64	1.834	1.828	0.006	43	4143	0.5000	0.4538	
17 Dichlorofluoromethane	67	2.047	2.047	0.000	96	11268	0.5000	0.5446	
18 Trichlorofluoromethane	101	2.041	2.047	-0.006	38	8891	0.5000	0.4905	
19 Ethyl ether	59	2.308	2.308	0.000	86	7860	0.5000	0.5322	
20 Acrolein	56	2.485	2.479	0.006	82	9203	2.50	2.99	M
22 1,1-Dichloroethene	96	2.509	2.509	0.000	59	5937	0.5000	0.5984	
21 112TCTFE	101	2.534	2.521	0.013	27	6210	0.5000	0.5889	
23 Acetone	43	2.643	2.631	0.012	95	28676	2.50	3.63	
24 Iodomethane	142	2.673	2.667	0.006	54	8226	0.5000	0.4728	
25 Carbon disulfide	76	2.704	2.704	0.000	96	16311	0.5000	0.4906	
27 3-Chloro-1-propene	41	2.874	2.874	0.000	82	12744	0.5000	0.4897	M
28 Methyl acetate	43	2.935	2.923	0.012	0	20864	1.00	1.14	M
30 Methylene Chloride	84	3.014	3.020	-0.006	87	7638	0.5000	0.5125	M
31 2-Methyl-2-propanol	59	3.203	3.196	0.007	0	12871	5.00	5.69	M
32 Methyl tert-butyl ether	73	3.221	3.227	-0.006	94	22939	0.5000	0.5436	
33 trans-1,2-Dichloroethene	96	3.245	3.245	0.000	89	5394	0.5000	0.4623	
34 Acrylonitrile	53	3.300	3.300	0.000	92	46560	5.00	5.15	
35 Hexane	57	3.440	3.434	0.006	94	16105	0.5000	0.6736	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.653	3.653	0.000	93	15106	0.5000	0.5459	
39 Vinyl acetate	43	3.714	3.708	0.006	96	51951	1.00	1.09	
42 2,2-Dichloropropane	77	4.170	4.164	0.006	53	9261	0.5000	0.5639	
43 cis-1,2-Dichloroethene	96	4.194	4.200	-0.006	84	6937	0.5000	0.5212	
44 2-Butanone (MEK)	43	4.243	4.237	0.006	96	41433	2.50	3.51	
47 Chlorobromomethane	128	4.432	4.431	0.001	89	4102	0.5000	0.5878	
49 Tetrahydrofuran	42	4.462	4.450	0.012	87	11551	1.00	1.56	
50 Chloroform	83	4.511	4.517	-0.006	95	14324	0.5000	0.5913	
51 1,1,1-Trichloroethane	97	4.620	4.620	0.000	87	9935	0.5000	0.4913	
52 Cyclohexane	56	4.626	4.626	0.000	93	14121	0.5000	0.4928	
53 Carbon tetrachloride	117	4.754	4.754	0.000	71	10588	0.5000	0.5816	
54 1,1-Dichloropropene	75	4.772	4.772	0.000	77	9760	0.5000	0.5439	
55 Benzene	78	4.973	4.973	0.000	42	27666	0.5000	0.5296	
56 Isobutyl alcohol	43	5.016	5.009	0.007	87	13452	12.5	13.2	
57 1,2-Dichloroethane	62	5.046	5.040	0.006	94	16745	0.5000	0.6258	
59 n-Heptane	43	5.156	5.155	0.001	93	20471	0.5000	0.7335	
60 Trichloroethene	95	5.587	5.581	0.006	90	7167	0.5000	0.5387	
62 Methylcyclohexane	83	5.703	5.697	0.006	93	11607	0.5000	0.5498	
63 1,2-Dichloropropane	63	5.819	5.819	0.001	85	8643	0.5000	0.5810	
64 Dibromomethane	93	5.952	5.958	-0.006	89	4841	0.5000	0.5602	
66 1,4-Dioxane	88	5.971	5.965	0.007	0	981	10.0	9.63	M
67 Dichlorobromomethane	83	6.117	6.111	0.006	92	9341	0.5000	0.5234	
69 2-Chloroethyl vinyl ether	63	6.397	6.396	0.001	90	5357	0.5000	0.5097	
71 cis-1,3-Dichloropropene	75	6.530	6.524	0.006	79	10625	0.5000	0.5042	
72 4-Methyl-2-pentanone (MIBK)	58	6.676	6.676	0.000	98	23601	2.50	2.73	
73 Toluene	92	6.816	6.810	0.006	96	17520	0.5000	0.5187	
75 trans-1,3-Dichloropropene	75	7.096	7.096	0.000	92	11297	0.5000	0.5368	
77 Ethyl methacrylate	69	7.157	7.145	0.012	87	9249	0.5000	0.5171	
78 1,1,2-Trichloroethane	83	7.285	7.285	0.000	0	5836	0.5000	0.5612	M
79 Tetrachloroethene	166	7.333	7.339	-0.006	90	7574	0.5000	0.5399	
80 1,3-Dichloropropane	76	7.437	7.443	-0.006	87	11323	0.5000	0.5273	
82 2-Hexanone	43	7.516	7.516	0.000	96	49903	2.50	2.87	
83 Chlorodibromomethane	129	7.674	7.674	0.000	90	6454	0.5000	0.5034	
84 Ethylene Dibromide	107	7.778	7.777	0.001	88	7045	0.5000	0.5434	
85 Chlorobenzene	112	8.252	8.252	0.000	92	18926	0.5000	0.5176	
88 Ethylbenzene	91	8.343	8.349	-0.006	97	33326	0.5000	0.5312	
89 1,1,1,2-Tetrachloroethane	131	8.356	8.349	0.007	44	6837	0.5000	0.4917	
90 m-Xylene & p-Xylene	106	8.471	8.471	0.000	95	14540	0.5000	0.5897	
91 o-Xylene	106	8.897	8.897	0.000	92	13839	0.5000	0.5779	
92 Styrene	104	8.921	8.927	-0.006	94	20236	0.5000	0.5131	
93 Bromoform	173	9.165	9.171	-0.006	85	3261	0.5000	0.4017	
95 Isopropylbenzene	105	9.286	9.280	0.006	95	35316	0.5000	0.5478	
97 Bromobenzene	156	9.627	9.627	0.000	87	9338	0.5000	0.6005	
98 1,1,2,2-Tetrachloroethane	83	9.700	9.700	0.000	89	7879	0.5000	0.4658	
100 N-Propylbenzene	91	9.718	9.718	0.000	98	37716	0.5000	0.5186	
99 1,2,3-Trichloropropane	110	9.730	9.724	0.006	57	2826	0.5000	0.5100	
101 trans-1,4-Dichloro-2-butene	53	9.743	9.742	0.001	1	3124	0.5000	0.4129	
102 2-Chlorotoluene	126	9.816	9.822	-0.006	93	7275	0.5000	0.5147	
104 1,3,5-Trimethylbenzene	105	9.901	9.901	0.000	95	26268	0.5000	0.4967	
105 4-Chlorotoluene	91	9.931	9.937	-0.006	96	22916	0.5000	0.4779	
106 tert-Butylbenzene	134	10.217	10.223	-0.006	93	5944	0.5000	0.5401	
108 1,2,4-Trimethylbenzene	105	10.278	10.278	0.000	95	27647	0.5000	0.5153	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.436	10.436	0.000	95	30523	0.5000	0.4590	
110 1,3-Dichlorobenzene	146	10.570	10.570	0.000	77	14501	0.5000	0.4984	
111 4-Isopropyltoluene	119	10.582	10.576	0.006	96	27996	0.5000	0.4957	
113 1,4-Dichlorobenzene	146	10.661	10.661	0.000	88	14564	0.5000	0.4886	
115 n-Butylbenzene	91	10.965	10.965	0.000	98	25233	0.5000	0.5015	
116 1,2-Dichlorobenzene	146	11.014	11.014	0.000	92	16370	0.5000	0.5716	
117 1,2-Dibromo-3-Chloropropane	75	11.750	11.750	0.000	1	1097	0.5000	0.3111	
119 1,2,4-Trichlorobenzene	180	12.425	12.425	0.000	92	7856	0.5000	0.4167	
120 Hexachlorobutadiene	225	12.541	12.541	0.000	80	3993	0.5000	0.4370	
121 Naphthalene	128	12.638	12.638	0.000	96	23652	0.5000	0.4538	
122 1,2,3-Trichlorobenzene	180	12.845	12.845	0.000	92	8364	0.5000	0.4645	
S 124 1,2-Dichloroethene, Total	1				0			0.9835	
S 126 Xylenes, Total	1				0			1.17	
S 123 1,3-Dichloropropene, Total	1				0			1.04	
S 125 Total BTEX	1				0			2.75	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00225	Amount Added:	0.50	Units: uL	
GAS CORP mix_00512	Amount Added:	0.50	Units: uL	
N_8260_Surr_00440	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00232	Amount Added:	1.00	Units: uL	Run Reagent

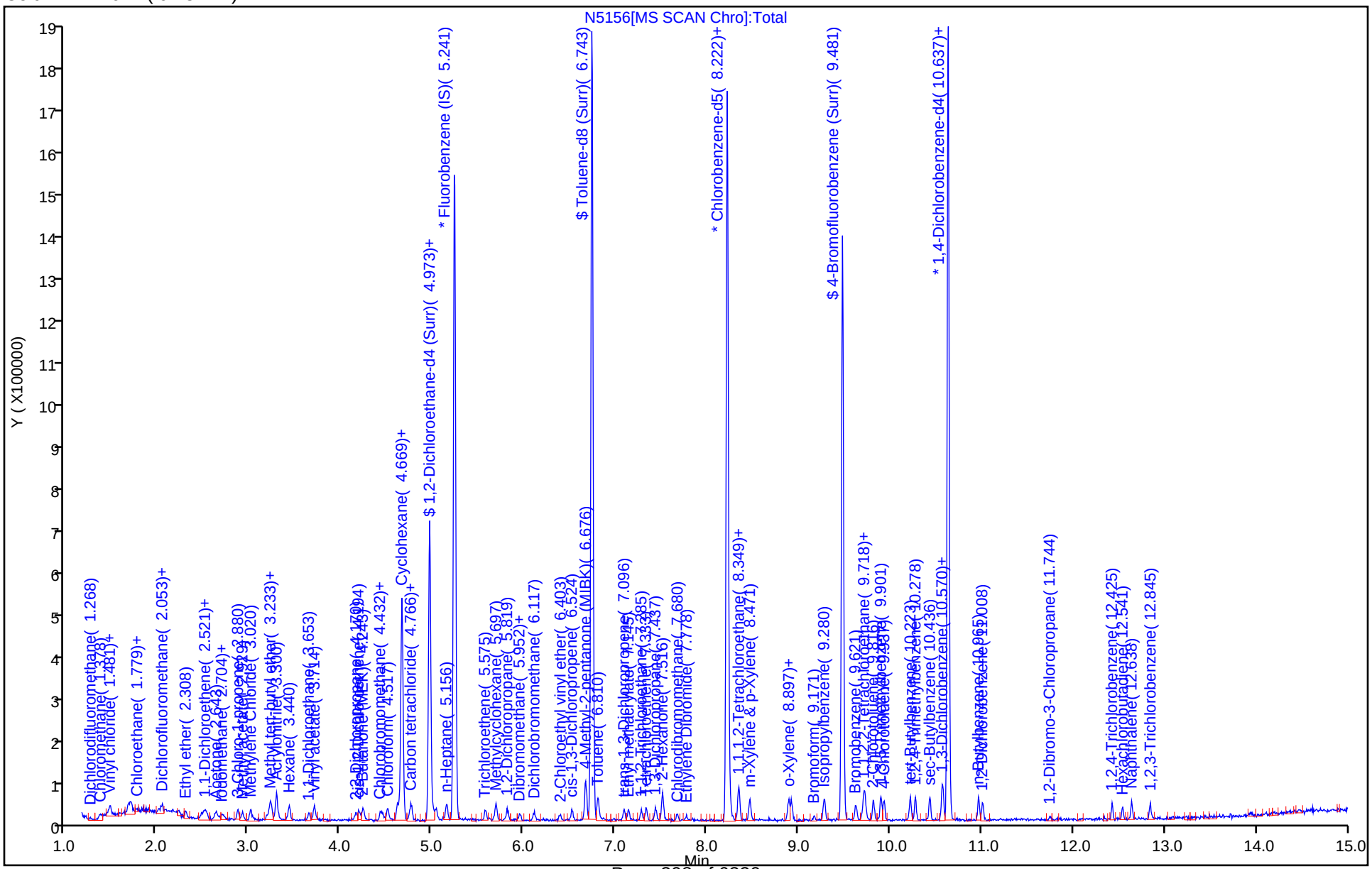
Report Date: 07-Jun-2022 10:08:19 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5156.D

Injection Date:	06-Jun-2022 17:50:30	Instrument ID:	HP5973N	Operator ID:	LH
Lims ID:	IC 0.5			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

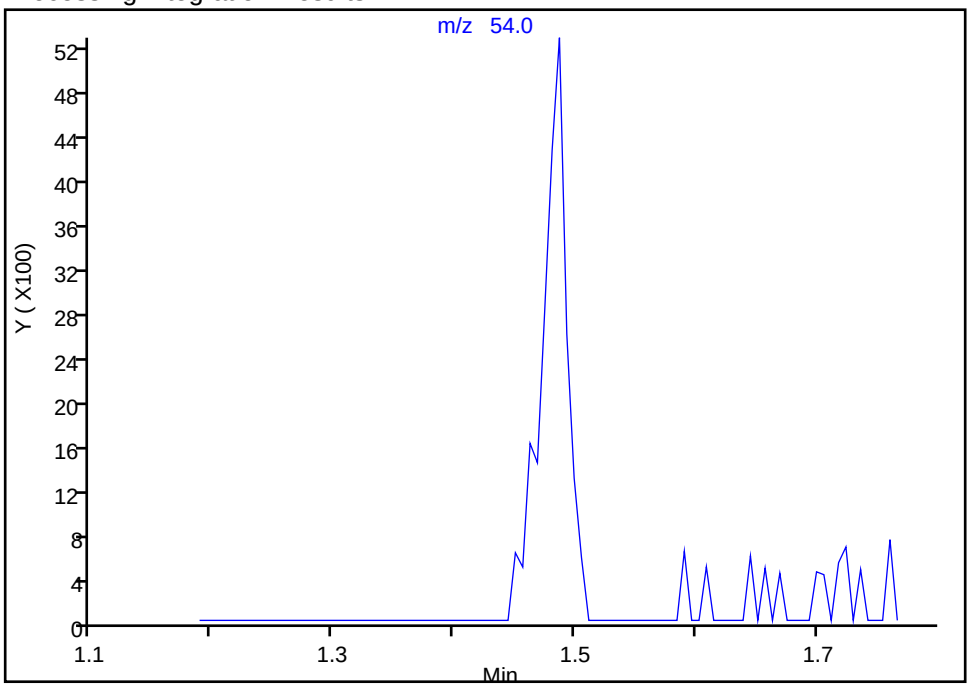
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5156.D
Injection Date: 06-Jun-2022 17:50:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 29 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

144 Butadiene, CAS: 106-99-0

Signal: 1

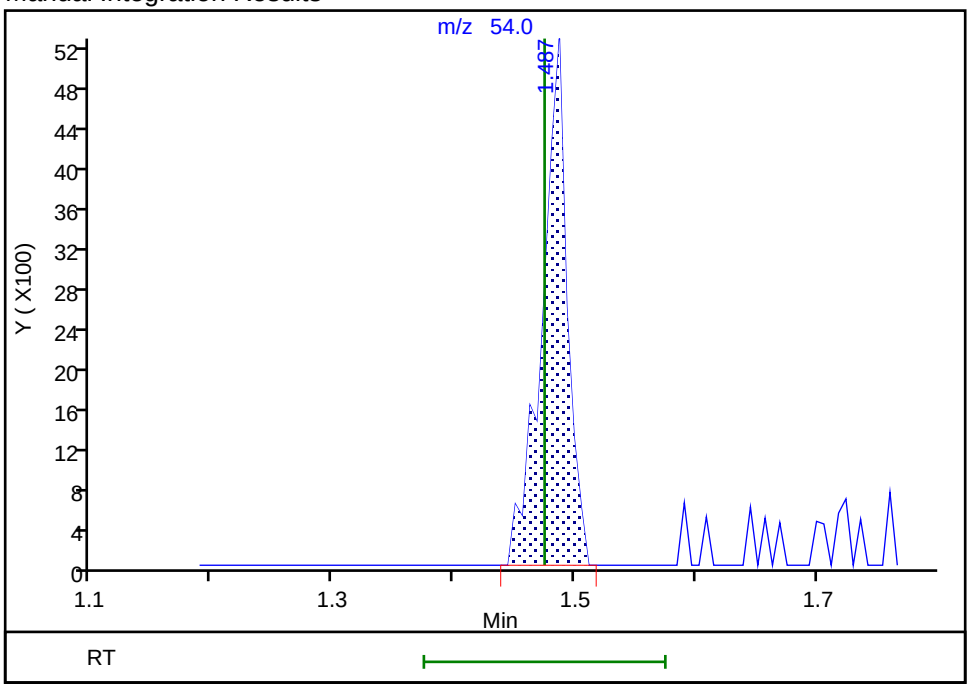
Not Detected
Expected RT: 1.47

Processing Integration Results



Manual Integration Results

RT: 1.49
Area: 7661
Amount: 0.445937
Amount Units: ug/L



Reviewer: HillL, 07-Jun-2022 09:31:43
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

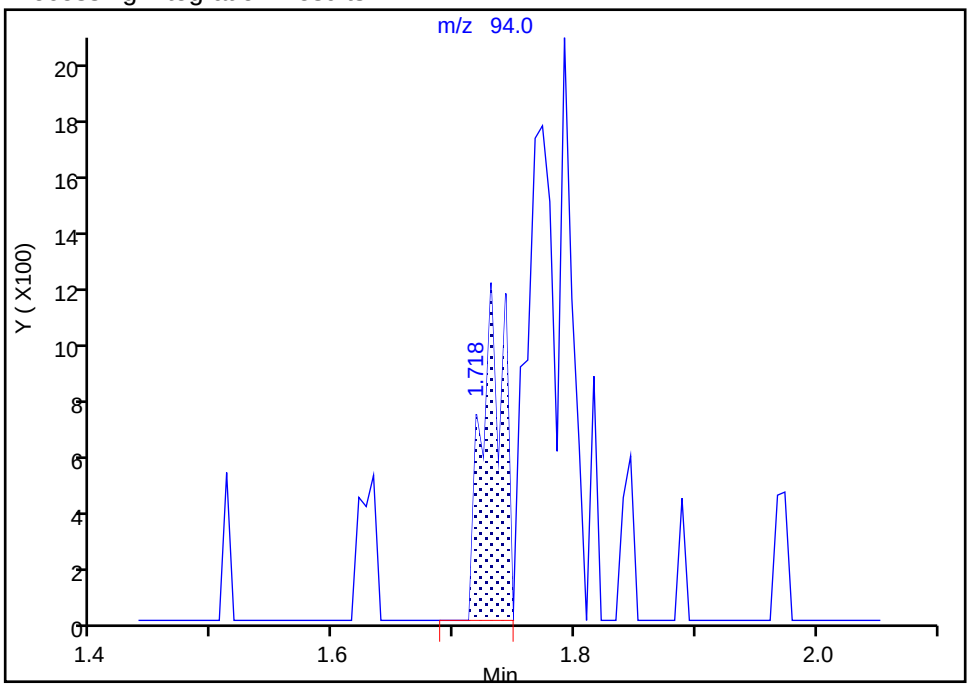
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5156.D
Injection Date: 06-Jun-2022 17:50:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 29 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

15 Bromomethane, CAS: 74-83-9

Signal: 1

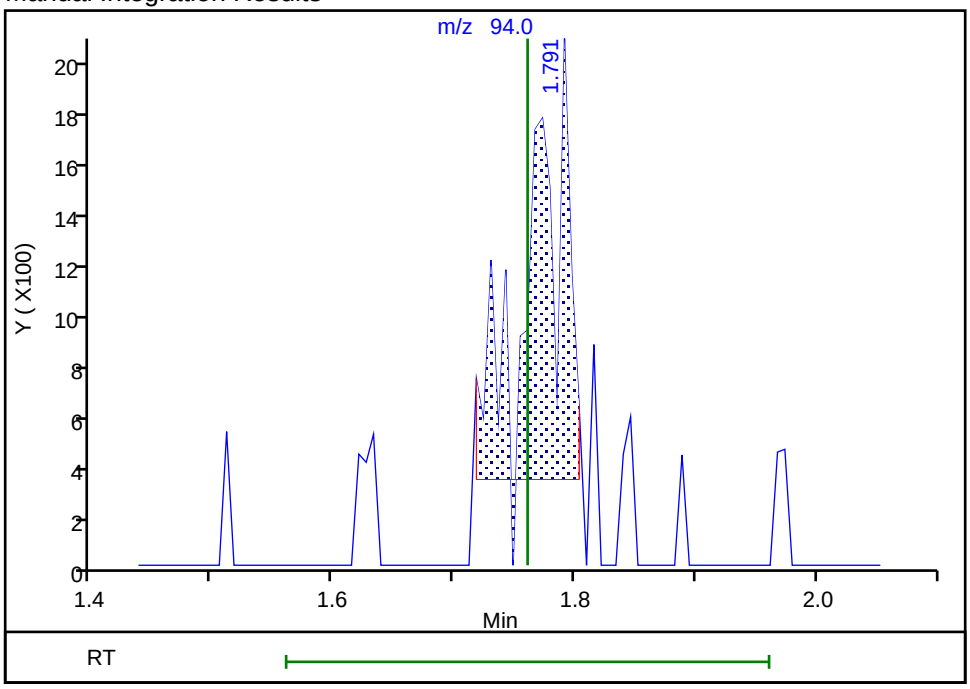
Processing Integration Results

RT: 1.72
Area: 1516
Amount: 0.198357
Amount Units: ug/L



Manual Integration Results

RT: 1.79
Area: 3751
Amount: 0.457354
Amount Units: ug/L



Reviewer: HillL, 07-Jun-2022 09:31:51
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

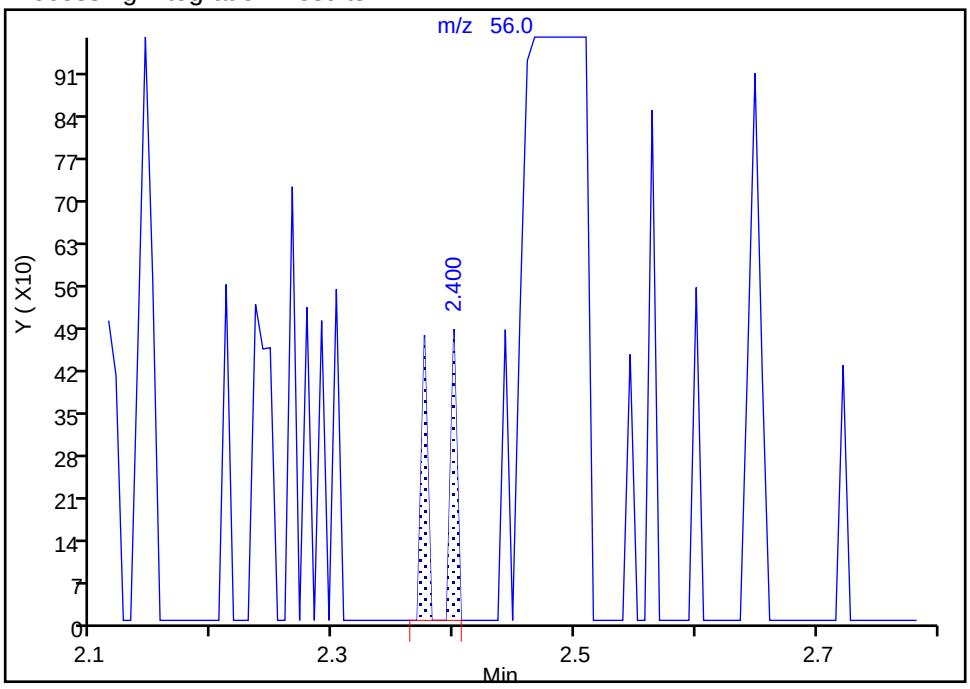
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5156.D
Injection Date: 06-Jun-2022 17:50:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 29 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

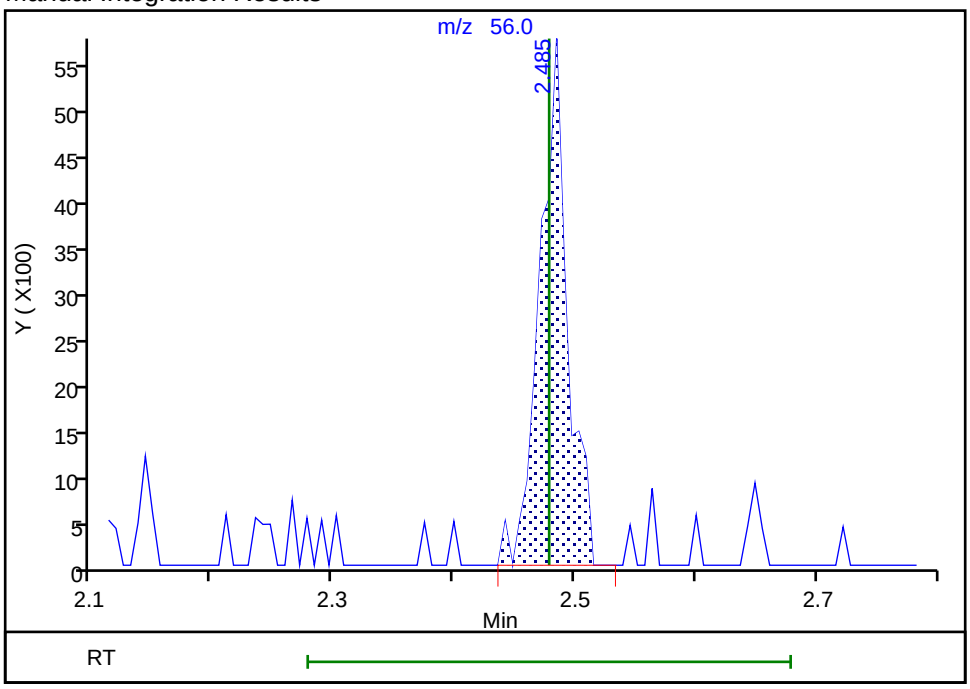
Processing Integration Results

RT: 2.40
Area: 349
Amount: 0.132414
Amount Units: ug/L



Manual Integration Results

RT: 2.48
Area: 9203
Amount: 2.989564
Amount Units: ug/L



Reviewer: HillL, 07-Jun-2022 09:32:04
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

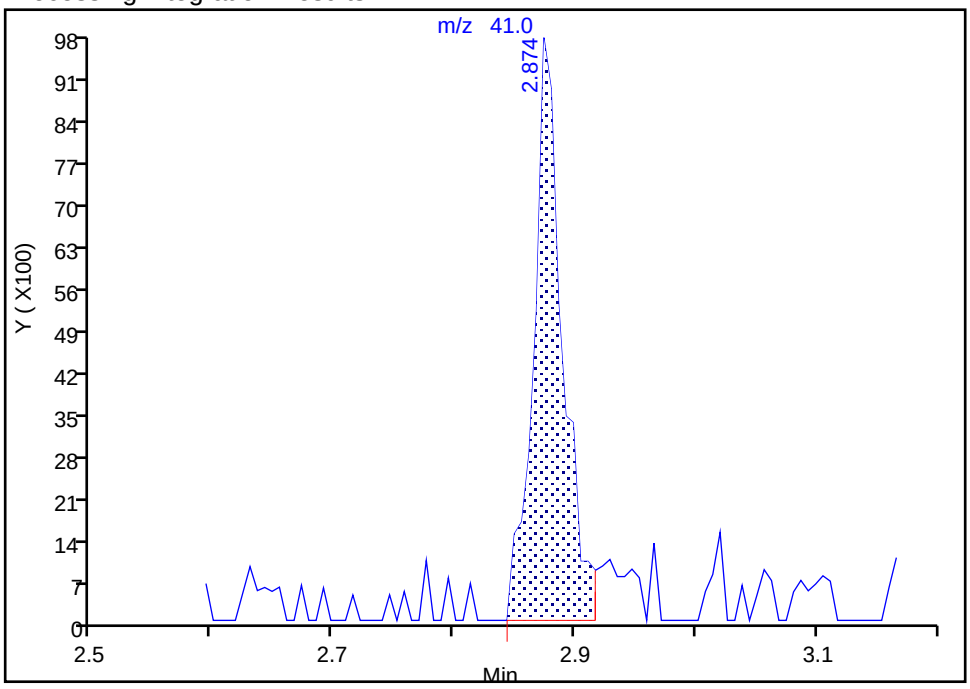
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5156.D
Injection Date: 06-Jun-2022 17:50:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 29 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

27 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

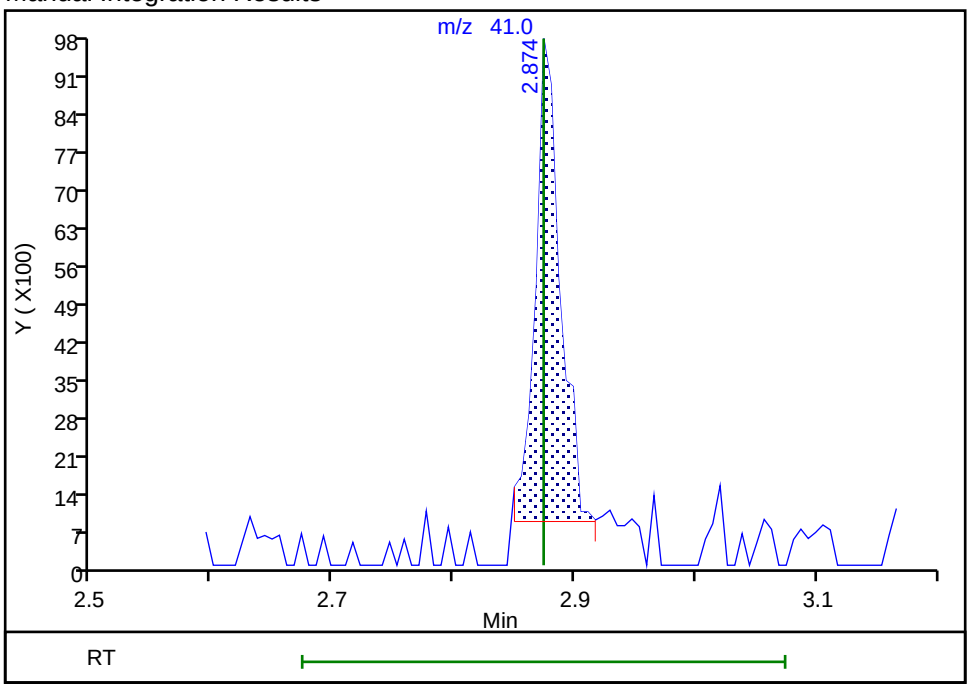
Processing Integration Results

RT: 2.87
Area: 16297
Amount: 0.605513
Amount Units: ug/L



Manual Integration Results

RT: 2.87
Area: 12744
Amount: 0.489662
Amount Units: ug/L



Reviewer: HillL, 07-Jun-2022 09:32:27
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

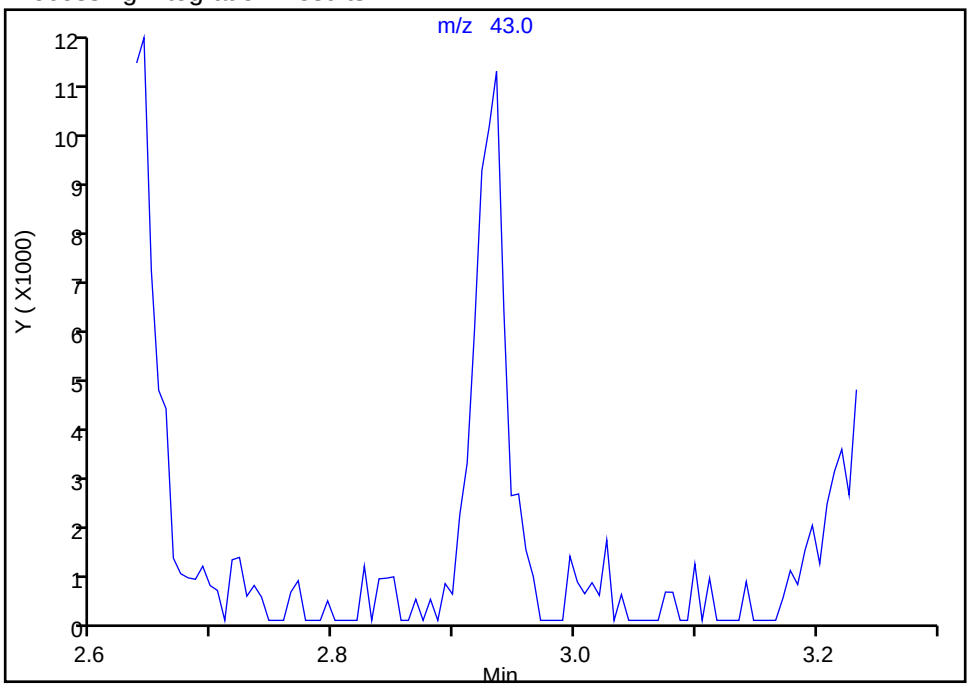
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5156.D
Injection Date: 06-Jun-2022 17:50:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 29 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

28 Methyl acetate, CAS: 79-20-9

Signal: 1

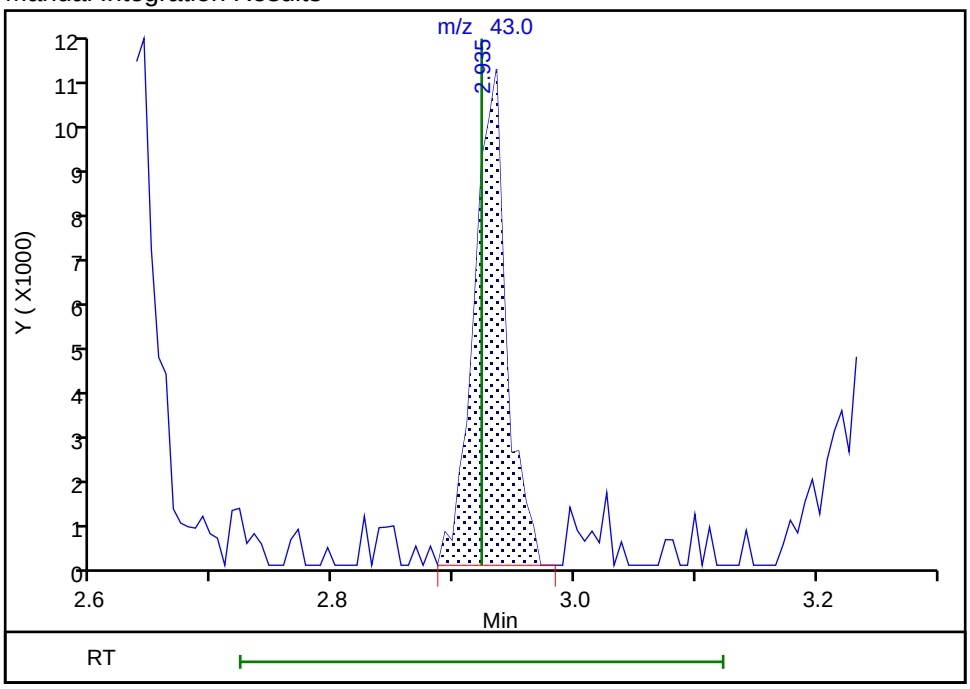
Not Detected
Expected RT: 2.92

Processing Integration Results



Manual Integration Results

RT: 2.94
Area: 20864
Amount: 1.143072
Amount Units: ug/L



Reviewer: HillL, 07-Jun-2022 09:32:34
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

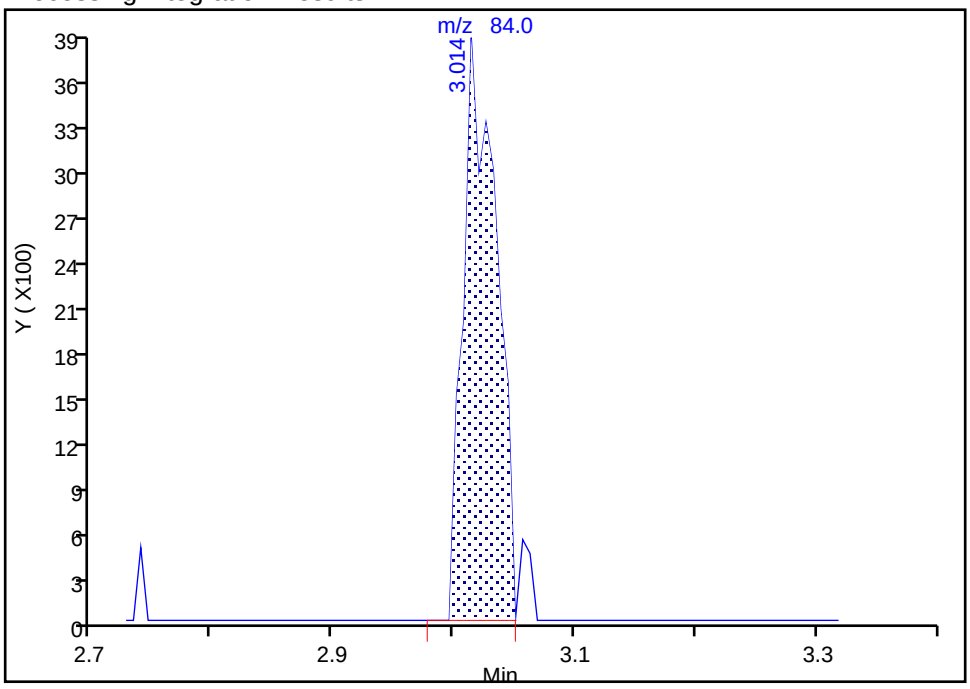
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5156.D
Injection Date: 06-Jun-2022 17:50:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 29 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

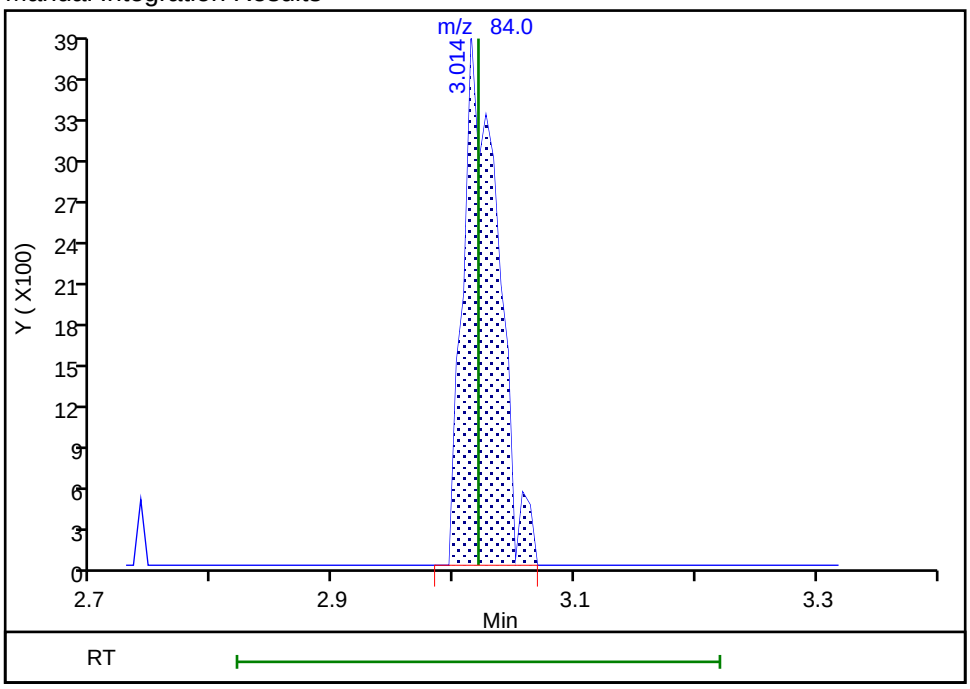
Processing Integration Results

RT: 3.01
Area: 7285
Amount: 0.498848
Amount Units: ug/L



Manual Integration Results

RT: 3.01
Area: 7638
Amount: 0.512527
Amount Units: ug/L



Reviewer: HillL, 07-Jun-2022 09:32:46
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

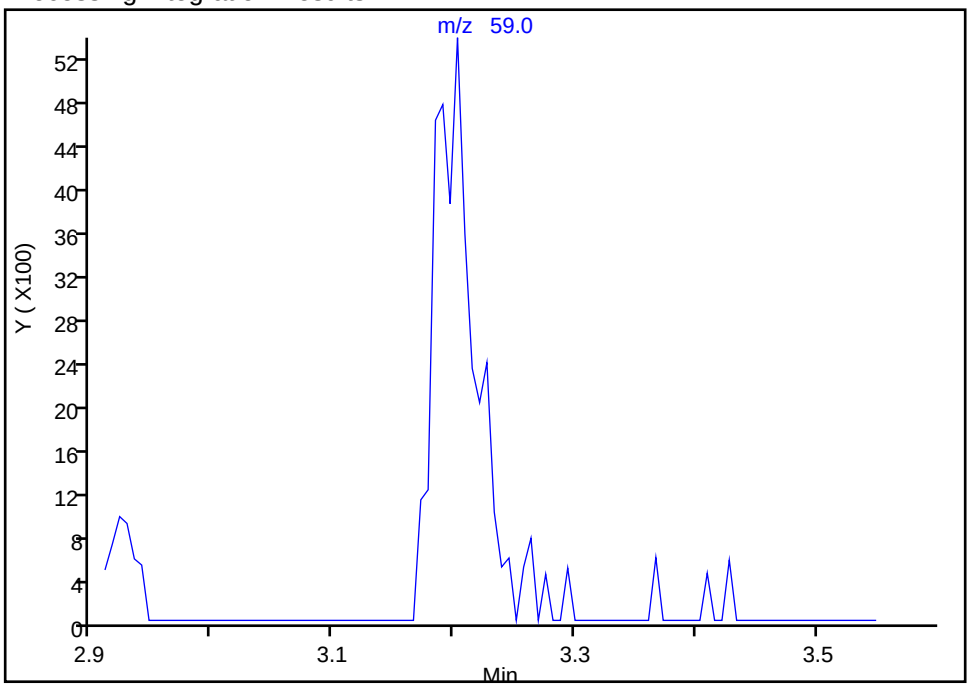
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5156.D
Injection Date: 06-Jun-2022 17:50:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 29 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

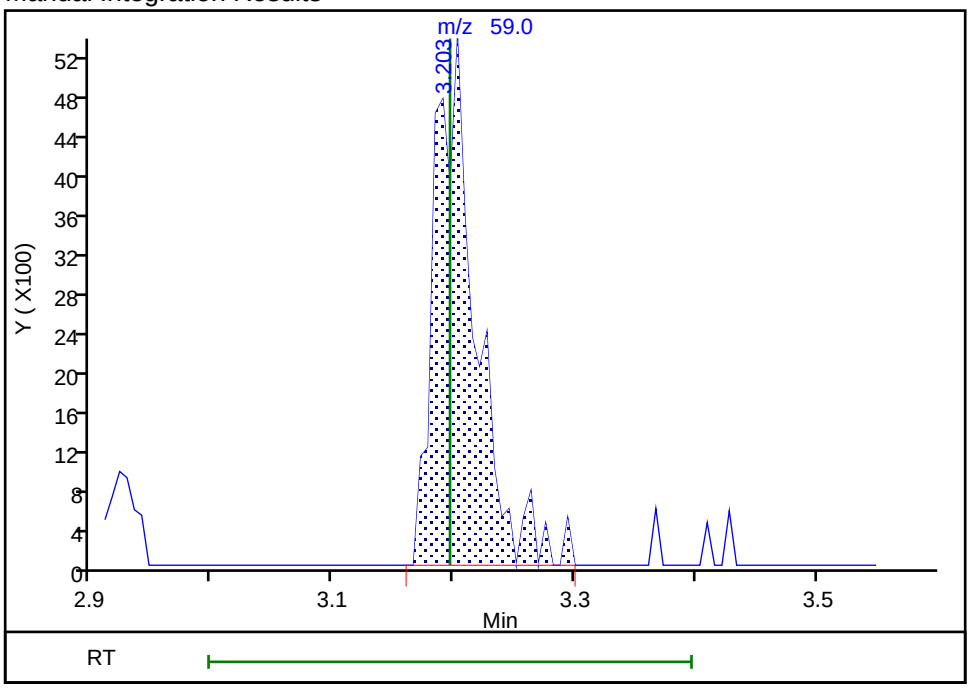
Not Detected
Expected RT: 3.20

Processing Integration Results



Manual Integration Results

RT: 3.20
Area: 12871
Amount: 5.687564
Amount Units: ug/L



Reviewer: HillL, 07-Jun-2022 09:32:39
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

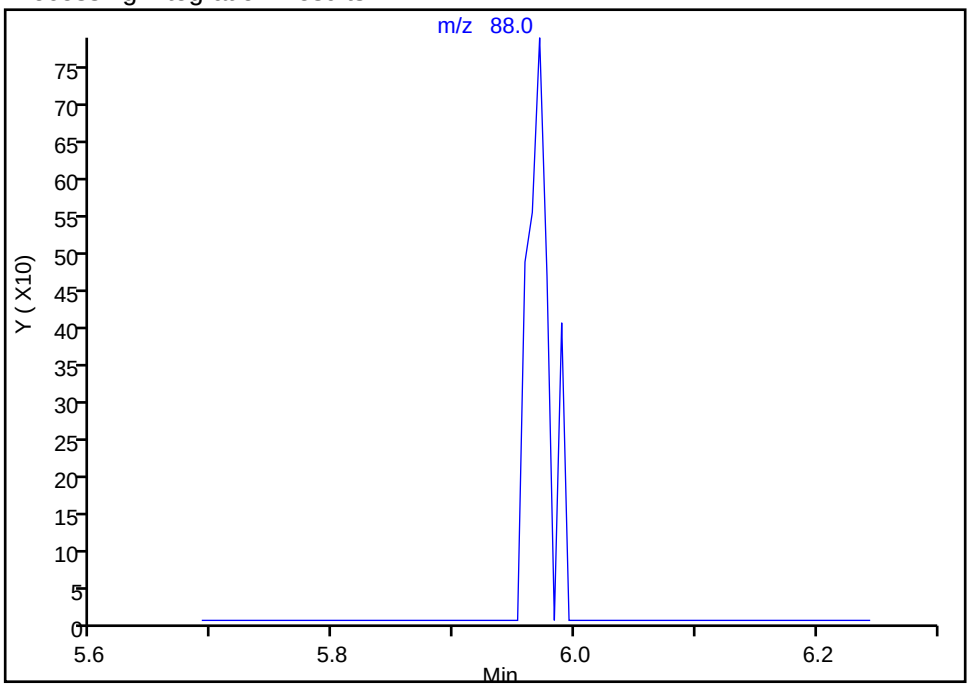
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5156.D
Injection Date: 06-Jun-2022 17:50:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 29 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

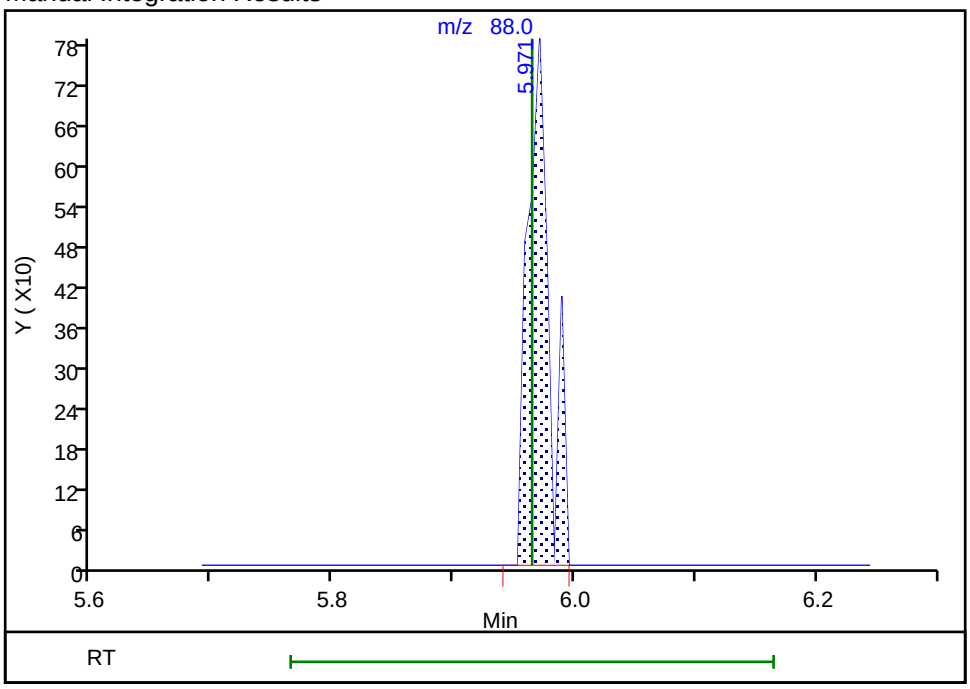
Not Detected
Expected RT: 5.96

Processing Integration Results



Manual Integration Results

RT: 5.97
Area: 981
Amount: 9.627179
Amount Units: ug/L



Reviewer: HillL, 07-Jun-2022 09:33:10
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

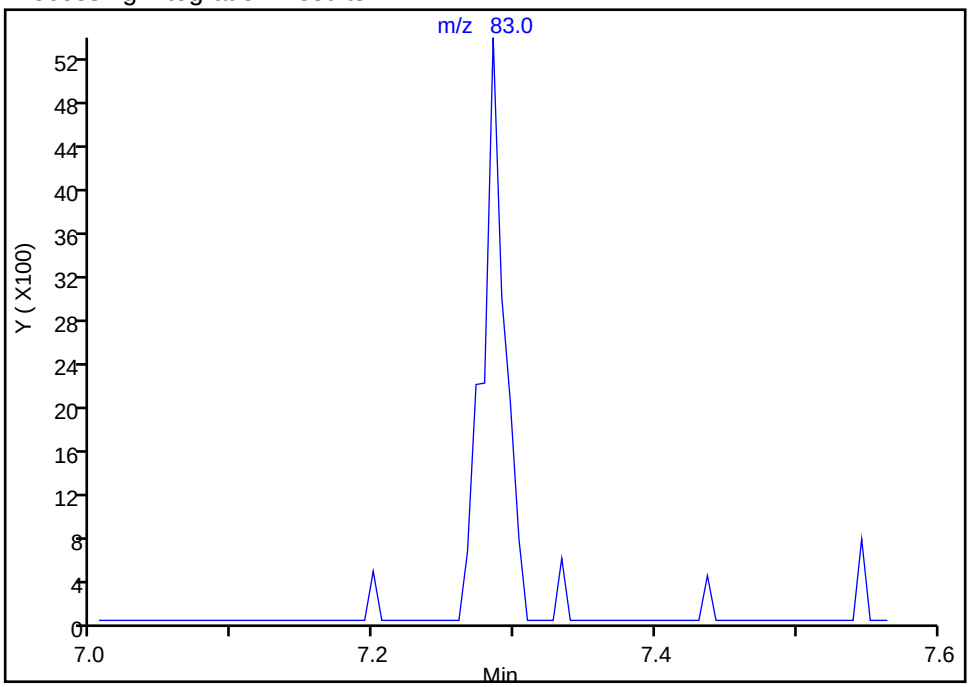
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5156.D
Injection Date: 06-Jun-2022 17:50:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 29 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

78 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

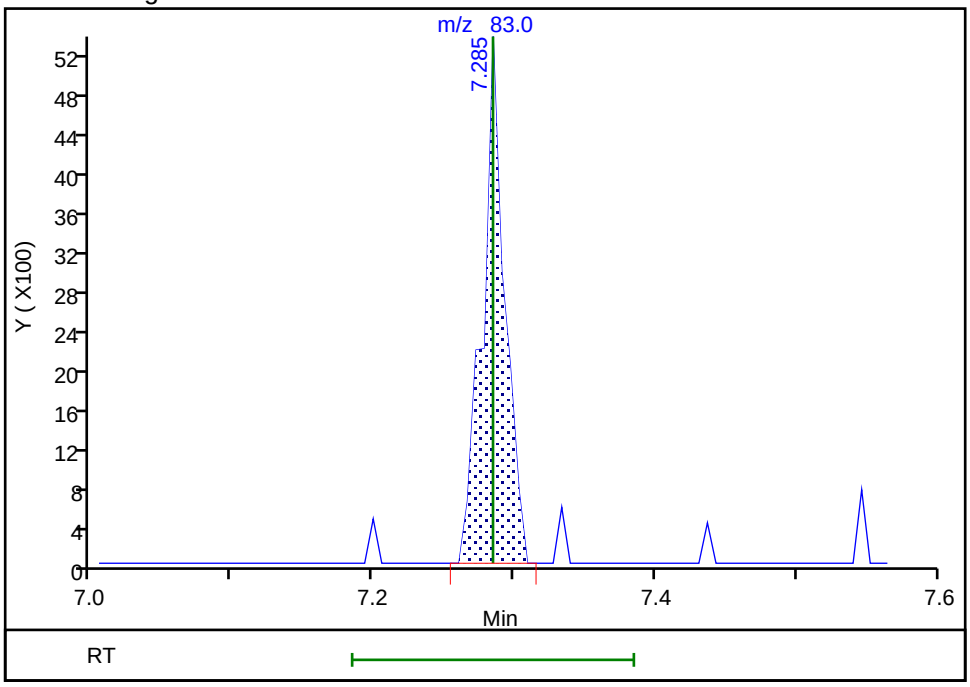
Not Detected
Expected RT: 7.28

Processing Integration Results



Manual Integration Results

RT: 7.28
Area: 5836
Amount: 0.561184
Amount Units: ug/L



Reviewer: HillL, 07-Jun-2022 09:33:19
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5157.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 06-Jun-2022 18:13:30 ALS Bottle#: 30 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0105916-010
Operator ID: LH Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jun-2022 10:08:20 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: HillL Date: 07-Jun-2022 09:35:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.241	5.241	0.000	97	216296	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.222	8.222	0.000	92	759719	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.637	10.637	0.000	96	395389	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.669	4.669	0.000	92	264363	25.0	25.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.973	4.973	0.000	98	397051	25.0	26.1	
$ 6 Toluene-d8 (Surr)	98	6.743	6.743	0.000	95	962293	25.0	25.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.481	9.481	0.000	87	308943	25.0	24.8	
11 Dichlorodifluoromethane	85	1.207	1.207	0.000	56	9925	1.00	0.8522	M
13 Chloromethane	50	1.365	1.371	-0.006	98	19792	1.00	1.01	
14 Vinyl chloride	62	1.463	1.457	0.006	86	9286	1.00	0.7832	
144 Butadiene	54	1.481	1.475	0.006	96	16198	1.00	1.02	
15 Bromomethane	94	1.761	1.761	0.000	51	8659	1.00	1.14	
16 Chloroethane	64	1.846	1.828	0.018	47	8527	1.00	1.01	
17 Dichlorofluoromethane	67	2.047	2.047	0.000	94	19903	1.00	1.04	
18 Trichlorofluoromethane	101	2.065	2.047	0.018	67	15829	1.00	0.9441	
19 Ethyl ether	59	2.308	2.308	0.000	96	13385	1.00	0.9798	
20 Acrolein	56	2.479	2.479	0.000	84	16084	5.00	5.65	
22 1,1-Dichloroethene	96	2.509	2.509	0.000	92	8153	1.00	0.8884	
21 112TCTFE	101	2.515	2.521	-0.006	62	7569	1.00	0.7760	
23 Acetone	43	2.631	2.631	0.000	99	40968	5.00	5.60	
24 Iodomethane	142	2.661	2.667	-0.006	96	14330	1.00	0.8905	
25 Carbon disulfide	76	2.698	2.704	-0.006	98	27555	1.00	0.8960	
27 3-Chloro-1-propene	41	2.874	2.874	0.000	85	21243	1.00	0.8824	
28 Methyl acetate	43	2.923	2.923	0.000	0	34480	2.00	2.04	M
30 Methylene Chloride	84	3.020	3.020	0.000	89	10623	1.00	0.8398	
31 2-Methyl-2-propanol	59	3.191	3.196	-0.005	83	22105	10.0	10.6	
32 Methyl tert-butyl ether	73	3.221	3.227	-0.006	94	37626	1.00	0.9640	
33 trans-1,2-Dichloroethene	96	3.245	3.245	0.000	89	9914	1.00	0.9186	
34 Acrylonitrile	53	3.300	3.300	0.000	0	80024	10.0	9.58	M
35 Hexane	57	3.440	3.434	0.006	95	19092	1.00	0.8633	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.653	3.653	0.000	95	22978	1.00	0.8978	
39 Vinyl acetate	43	3.708	3.708	0.000	97	79070	2.00	1.80	
42 2,2-Dichloropropane	77	4.176	4.164	0.012	80	14299	1.00	0.9414	
43 cis-1,2-Dichloroethene	96	4.206	4.200	0.006	89	11258	1.00	0.9145	
44 2-Butanone (MEK)	43	4.237	4.237	0.000	96	57885	5.00	5.30	
47 Chlorobromomethane	128	4.432	4.431	0.001	89	6125	1.00	0.9489	
49 Tetrahydrofuran	42	4.462	4.450	0.012	90	14113	2.00	2.06	
50 Chloroform	83	4.517	4.517	0.000	93	22234	1.00	0.99	
51 1,1,1-Trichloroethane	97	4.626	4.620	0.006	84	16404	1.00	0.8771	
52 Cyclohexane	56	4.620	4.626	-0.006	90	23787	1.00	0.8974	
53 Carbon tetrachloride	117	4.760	4.754	0.006	91	14349	1.00	0.8521	
54 1,1-Dichloropropene	75	4.772	4.772	0.000	82	14782	1.00	0.8905	
55 Benzene	78	4.973	4.973	0.000	45	42702	1.00	0.8837	
56 Isobutyl alcohol	43	5.003	5.009	-0.006	92	23125	25.0	24.6	
57 1,2-Dichloroethane	62	5.046	5.040	0.006	97	24359	1.00	0.9842	
59 n-Heptane	43	5.156	5.155	0.001	95	23421	1.00	0.9073	
60 Trichloroethene	95	5.581	5.581	0.000	92	11888	1.00	0.9661	
62 Methylcyclohexane	83	5.697	5.697	0.000	91	15514	1.00	0.7945	
63 1,2-Dichloropropane	63	5.819	5.819	0.001	74	11654	1.00	0.8470	
64 Dibromomethane	93	5.959	5.958	0.001	92	6786	1.00	0.8490	
66 1,4-Dioxane	88	5.989	5.965	0.025	0	1115	20.0	12.1	M
67 Dichlorobromomethane	83	6.111	6.111	0.000	95	15412	1.00	0.9336	
69 2-Chloroethyl vinyl ether	63	6.397	6.396	0.001	87	9919	1.00	1.02	
71 cis-1,3-Dichloropropene	75	6.524	6.524	0.000	80	16396	1.00	0.8411	
72 4-Methyl-2-pentanone (MIBK)	58	6.670	6.676	-0.006	97	37100	5.00	4.74	
73 Toluene	92	6.816	6.810	0.006	97	26959	1.00	0.8800	
75 trans-1,3-Dichloropropene	75	7.096	7.096	0.000	92	15506	1.00	0.8124	
77 Ethyl methacrylate	69	7.139	7.145	-0.006	91	14307	1.00	0.8820	
78 1,1,2-Trichloroethane	83	7.285	7.285	0.000	91	8345	1.00	0.8848	
79 Tetrachloroethene	166	7.333	7.339	-0.006	84	10234	1.00	0.8045	
80 1,3-Dichloropropane	76	7.443	7.443	0.000	91	18924	1.00	0.9718	
82 2-Hexanone	43	7.516	7.516	0.000	96	74684	5.00	4.74	
83 Chlorodibromomethane	129	7.674	7.674	0.000	87	9307	1.00	0.8005	
84 Ethylene Dibromide	107	7.771	7.777	-0.006	89	11035	1.00	0.9385	
85 Chlorobenzene	112	8.252	8.252	0.000	94	29128	1.00	0.8783	
88 Ethylbenzene	91	8.349	8.349	0.000	97	51686	1.00	0.9084	
89 1,1,1,2-Tetrachloroethane	131	8.355	8.349	0.006	46	11201	1.00	0.8883	
90 m-Xylene & p-Xylene	106	8.465	8.471	-0.006	95	17175	1.00	0.7681	
91 o-Xylene	106	8.897	8.897	0.000	94	17636	1.00	0.8120	
92 Styrene	104	8.927	8.927	0.000	94	28766	1.00	0.8043	
93 Bromoform	173	9.165	9.171	-0.006	86	5748	1.00	0.7807	
95 Isopropylbenzene	105	9.280	9.280	0.000	96	47356	1.00	0.8004	
97 Bromobenzene	156	9.633	9.627	0.006	92	12830	1.00	0.8989	
98 1,1,2,2-Tetrachloroethane	83	9.700	9.700	0.000	92	15515	1.00	1.00	
100 N-Propylbenzene	91	9.718	9.718	0.000	98	53946	1.00	0.8082	
99 1,2,3-Trichloropropane	110	9.724	9.724	0.000	56	4264	1.00	0.8385	
101 trans-1,4-Dichloro-2-butene	53	9.743	9.742	0.001	42	6290	1.00	0.9058	
102 2-Chlorotoluene	126	9.822	9.822	0.000	93	10065	1.00	0.7758	
104 1,3,5-Trimethylbenzene	105	9.901	9.901	0.000	94	39919	1.00	0.8224	
105 4-Chlorotoluene	91	9.931	9.937	-0.006	98	37054	1.00	0.8420	
106 tert-Butylbenzene	134	10.223	10.223	0.000	94	8555	1.00	0.8471	
108 1,2,4-Trimethylbenzene	105	10.278	10.278	0.000	98	39835	1.00	0.8090	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.436	10.436	0.000	94	51670	1.00	0.8466	
110 1,3-Dichlorobenzene	146	10.564	10.570	-0.006	95	23734	1.00	0.8888	
111 4-Isopropyltoluene	119	10.576	10.576	0.000	97	43487	1.00	0.8390	
113 1,4-Dichlorobenzene	146	10.661	10.661	0.000	91	25773	1.00	0.9421	
115 n-Butylbenzene	91	10.965	10.965	0.000	97	37414	1.00	0.8102	
116 1,2-Dichlorobenzene	146	11.014	11.014	0.000	92	21794	1.00	0.8292	
117 1,2-Dibromo-3-Chloropropane	75	11.750	11.750	0.000	74	3585	1.00	1.11	
119 1,2,4-Trichlorobenzene	180	12.431	12.425	0.006	93	15452	1.00	0.8931	
120 Hexachlorobutadiene	225	12.541	12.541	0.000	90	7576	1.00	0.9034	
121 Naphthalene	128	12.644	12.638	0.006	97	44466	1.00	0.9297	
122 1,2,3-Trichlorobenzene	180	12.845	12.845	0.000	94	16361	1.00	0.99	
S 124 1,2-Dichloroethene, Total	1				0			1.83	
S 126 Xylenes, Total	1				0			1.58	
S 123 1,3-Dichloropropene, Total	1				0			1.65	
S 125 Total BTEX	1				0			4.25	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00225	Amount Added:	1.00	Units: uL	
GAS CORP mix_00512	Amount Added:	1.00	Units: uL	
N_8260_Surr_00440	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00232	Amount Added:	1.00	Units: uL	Run Reagent

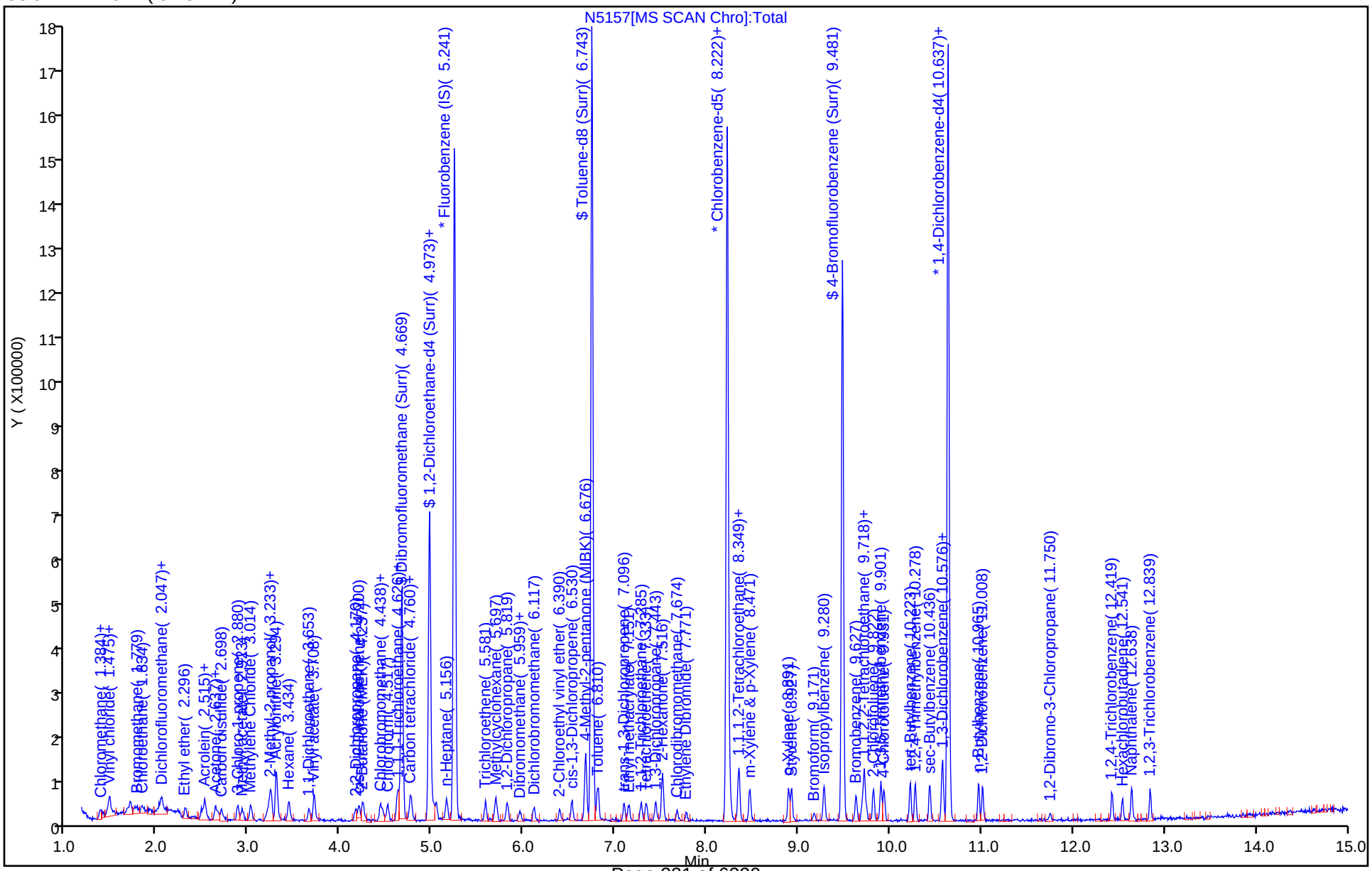
Report Date: 07-Jun-2022 10:08:21 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5157.D

Injection Date:	06-Jun-2022 18:13:30	Instrument ID:	HP5973N	Operator ID:	LH
Lims ID:	IC			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

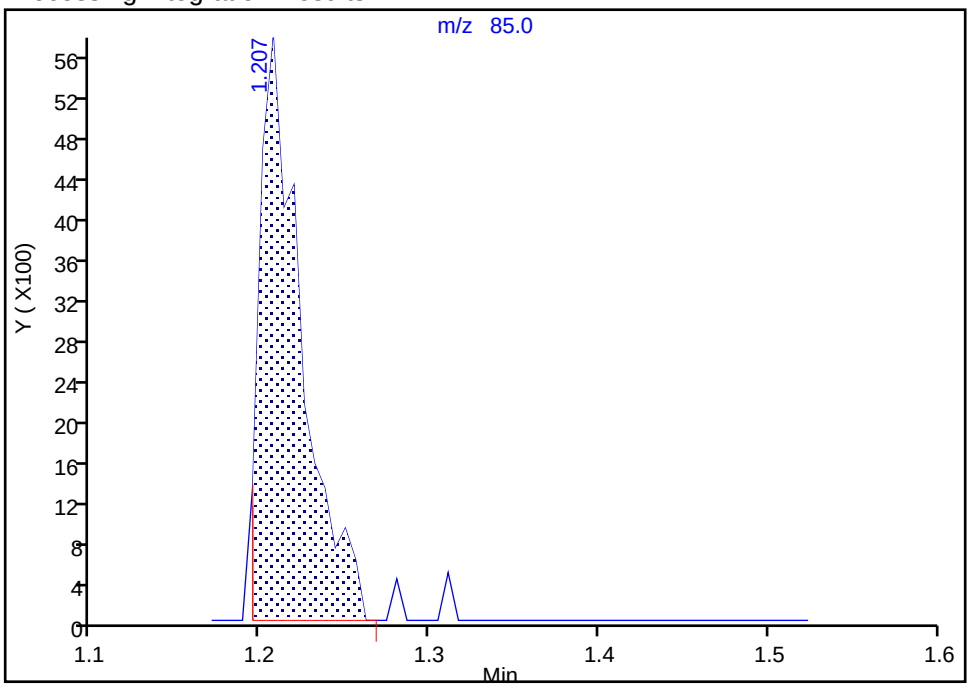
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5157.D
Injection Date: 06-Jun-2022 18:13:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 30 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

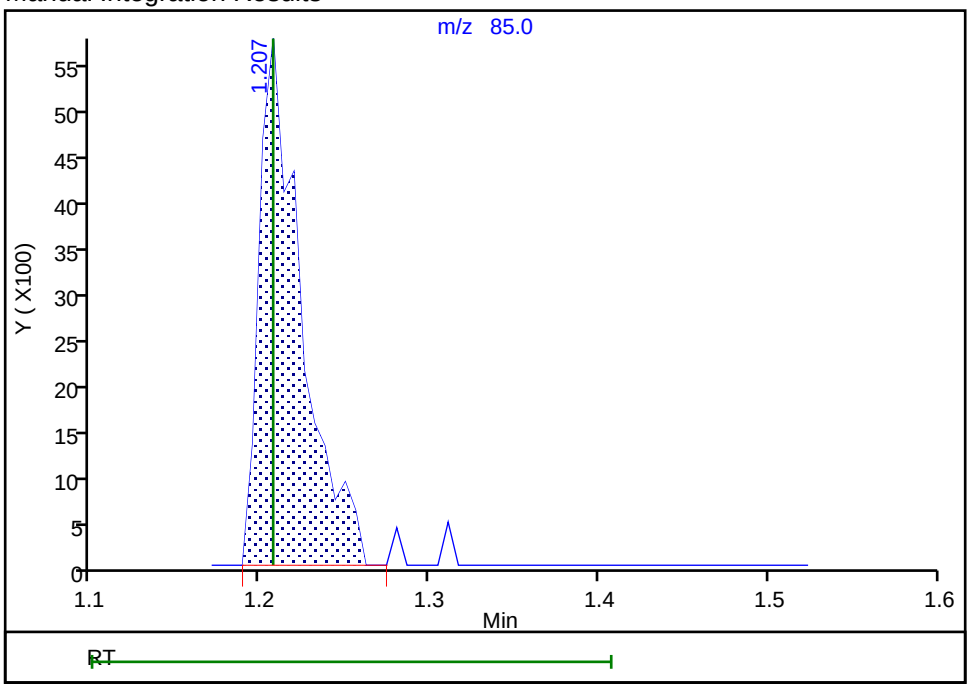
Processing Integration Results

RT: 1.21
Area: 9925
Amount: 0.866415
Amount Units: ug/L



Manual Integration Results

RT: 1.21
Area: 9925
Amount: 0.852166
Amount Units: ug/L



Reviewer: HillL, 07-Jun-2022 09:34:05
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

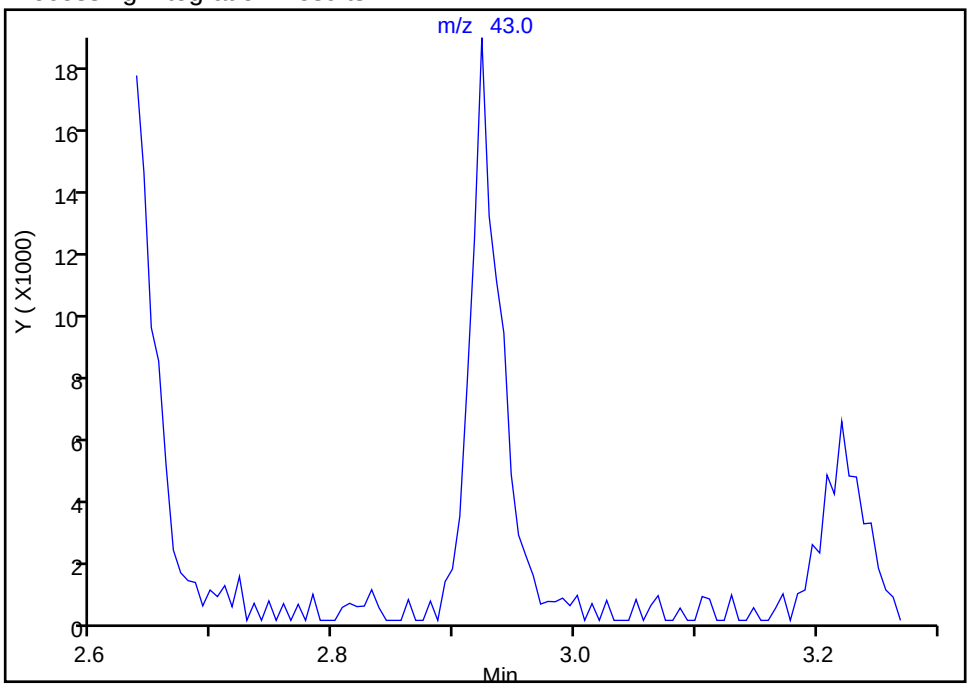
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5157.D
Injection Date: 06-Jun-2022 18:13:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 30 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

28 Methyl acetate, CAS: 79-20-9

Signal: 1

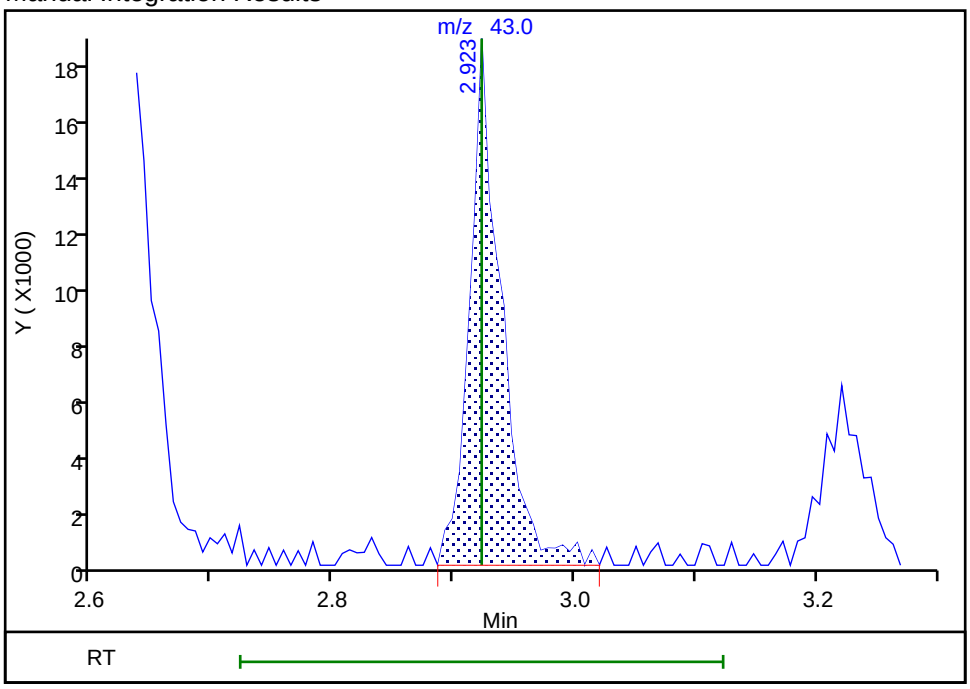
Not Detected
Expected RT: 2.92

Processing Integration Results



Manual Integration Results

RT: 2.92
Area: 34480
Amount: 2.042290
Amount Units: ug/L



Reviewer: HillL, 07-Jun-2022 09:34:22
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

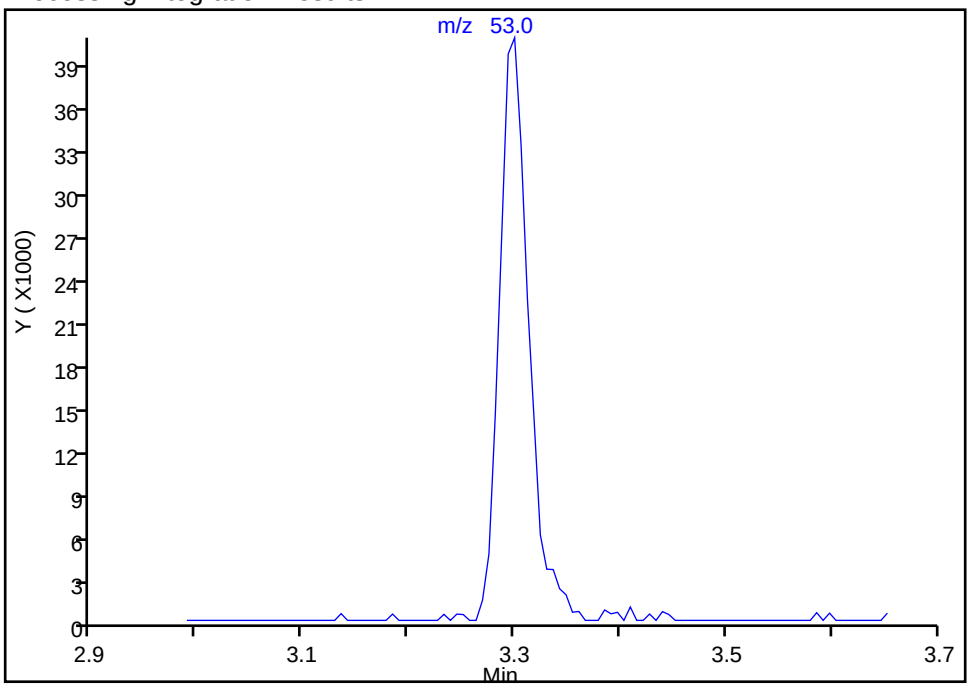
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5157.D
Injection Date: 06-Jun-2022 18:13:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 30 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

34 Acrylonitrile, CAS: 107-13-1

Signal: 1

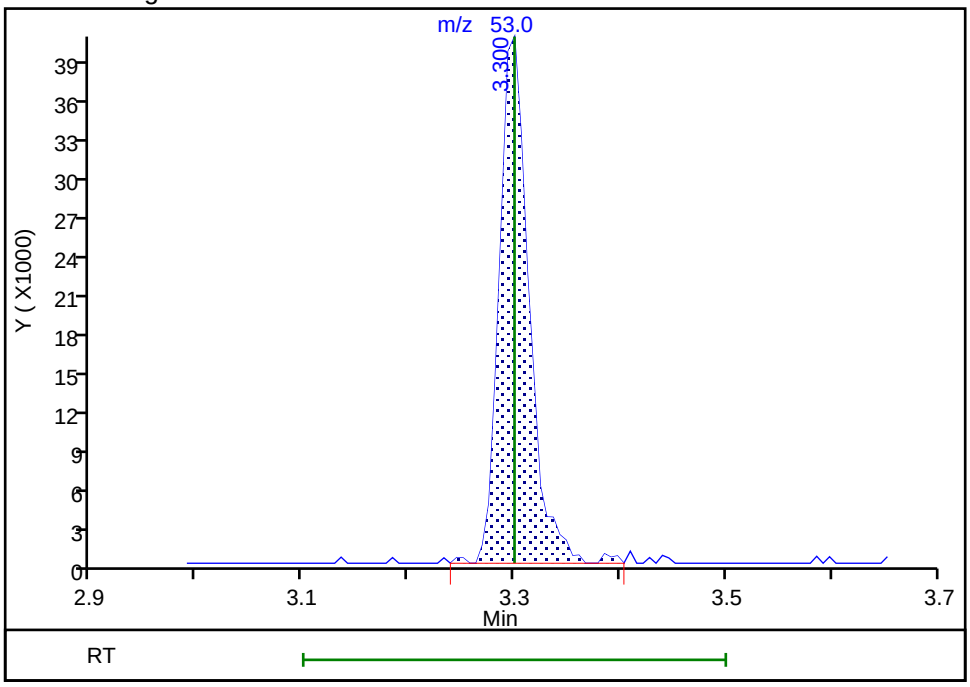
Not Detected
Expected RT: 3.30

Processing Integration Results



Manual Integration Results

RT: 3.30
Area: 80024
Amount: 9.575527
Amount Units: ug/L



Reviewer: HillL, 07-Jun-2022 09:34:34
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

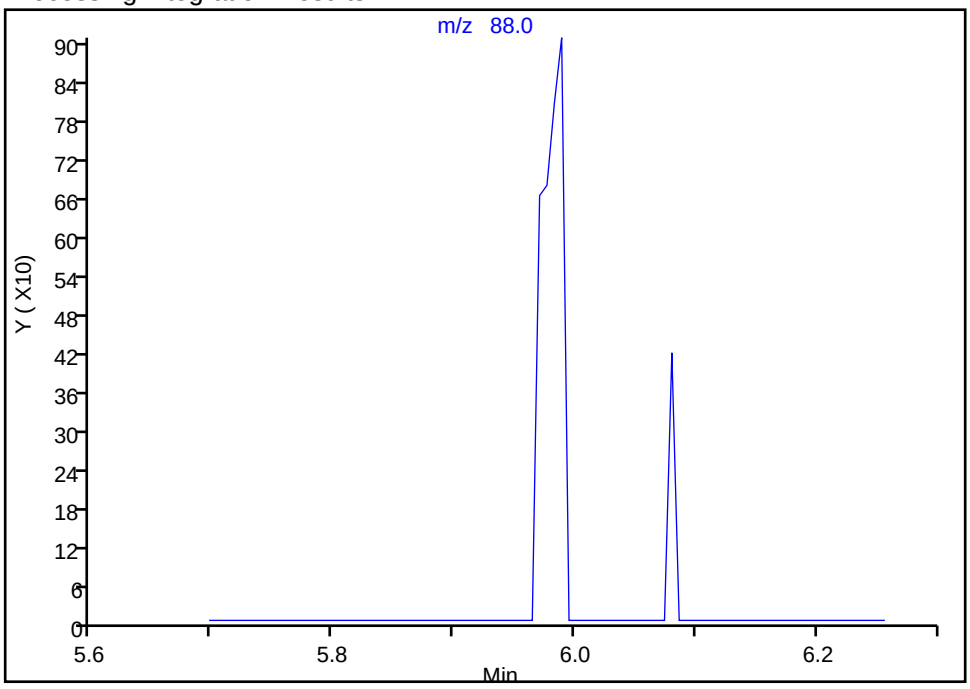
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5157.D
Injection Date: 06-Jun-2022 18:13:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 30 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

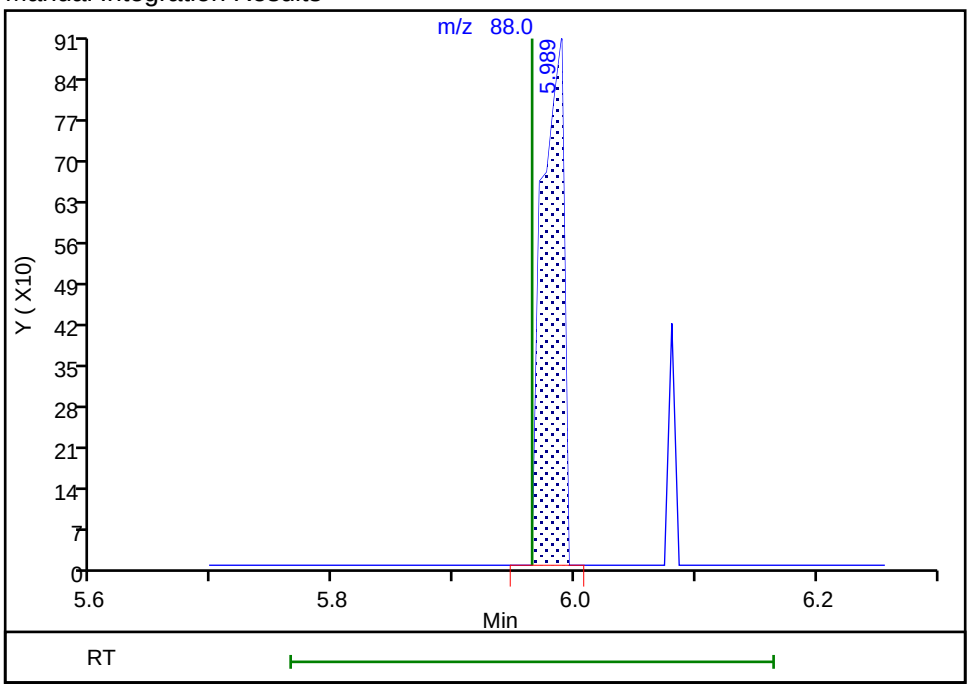
Not Detected
Expected RT: 5.96

Processing Integration Results



Manual Integration Results

RT: 5.99
Area: 1115
Amount: 12.065336
Amount Units: ug/L



Reviewer: HillL, 07-Jun-2022 09:34:46
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Report Date: 07-Jun-2022 10:08:24 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5158.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 06-Jun-2022 18:37:30 ALS Bottle#: 31 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0105916-011
Operator ID: LH Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jun-2022 10:08:23 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: HillL Date: 07-Jun-2022 09:35:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.247	5.241	0.006	97	228667	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.222	8.222	0.000	92	767729	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.637	10.637	0.000	96	409196	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.669	4.669	0.000	92	264883	25.0	24.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.973	4.973	0.000	97	389843	25.0	24.2	
$ 6 Toluene-d8 (Surr)	98	6.743	6.743	0.000	94	964298	25.0	25.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.481	9.481	0.000	87	314936	25.0	25.0	
11 Dichlorodifluoromethane	85	1.213	1.207	0.006	97	24974	2.00	2.03	M
13 Chloromethane	50	1.371	1.371	0.000	99	40658	2.00	1.97	
14 Vinyl chloride	62	1.463	1.457	0.006	94	23520	2.00	1.88	
144 Butadiene	54	1.481	1.475	0.006	94	33732	2.00	2.01	
15 Bromomethane	94	1.767	1.761	0.006	54	16805	2.00	2.10	
16 Chloroethane	64	1.828	1.828	0.000	93	18676	2.00	2.09	
17 Dichlorofluoromethane	67	2.041	2.047	-0.006	94	38818	2.00	1.92	
18 Trichlorofluoromethane	101	2.047	2.047	0.000	71	30884	2.00	1.74	
19 Ethyl ether	59	2.308	2.308	0.000	97	27740	2.00	1.92	
20 Acrolein	56	2.479	2.479	0.000	95	27732	10.0	9.21	
22 1,1-Dichloroethene	96	2.509	2.509	0.000	89	18516	2.00	1.91	
21 112TCTFE	101	2.527	2.521	0.006	59	20168	2.00	1.96	
23 Acetone	43	2.631	2.631	0.000	97	76902	10.0	9.95	
24 Iodomethane	142	2.673	2.667	0.006	96	36321	2.00	2.14	
25 Carbon disulfide	76	2.704	2.704	0.000	98	63266	2.00	1.95	
27 3-Chloro-1-propene	41	2.880	2.874	0.006	84	51588	2.00	2.03	
28 Methyl acetate	43	2.929	2.923	0.006	99	73390	4.00	4.11	
30 Methylene Chloride	84	3.020	3.020	0.000	90	23098	2.00	1.87	
31 2-Methyl-2-propanol	59	3.190	3.196	-0.006	93	40857	20.0	18.5	
32 Methyl tert-butyl ether	73	3.233	3.227	0.006	94	78304	2.00	1.90	
33 trans-1,2-Dichloroethene	96	3.239	3.245	-0.006	89	22616	2.00	1.98	
34 Acrylonitrile	53	3.306	3.300	0.006	98	169223	20.0	19.2	
35 Hexane	57	3.440	3.434	0.006	94	44206	2.00	1.89	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.653	3.653	0.000	95	56063	2.00	2.07	
39 Vinyl acetate	43	3.714	3.708	0.006	97	177047	4.00	3.81	
42 2,2-Dichloropropane	77	4.164	4.164	0.000	87	31592	2.00	1.97	
43 cis-1,2-Dichloroethene	96	4.206	4.200	0.006	88	25384	2.00	1.95	
44 2-Butanone (MEK)	43	4.243	4.237	0.006	97	114935	10.0	9.96	
47 Chlorobromomethane	128	4.431	4.431	0.000	87	12411	2.00	1.82	
49 Tetrahydrofuran	42	4.462	4.450	0.012	88	28983	4.00	4.01	
50 Chloroform	83	4.511	4.517	-0.006	95	45450	2.00	1.92	
51 1,1,1-Trichloroethane	97	4.620	4.620	0.000	92	38480	2.00	1.95	
52 Cyclohexane	56	4.632	4.626	0.006	94	50770	2.00	1.81	
53 Carbon tetrachloride	117	4.754	4.754	0.000	93	34130	2.00	1.92	
54 1,1-Dichloropropene	75	4.778	4.772	0.006	86	32697	2.00	1.86	
55 Benzene	78	4.973	4.973	0.000	52	102265	2.00	2.00	
56 Isobutyl alcohol	43	5.009	5.009	0.000	95	45723	50.0	46.1	
57 1,2-Dichloroethane	62	5.046	5.040	0.006	96	51575	2.00	1.97	
59 n-Heptane	43	5.161	5.155	0.006	95	52083	2.00	1.91	
60 Trichloroethene	95	5.581	5.581	0.000	91	24305	2.00	1.87	
62 Methylcyclohexane	83	5.697	5.697	0.000	96	38330	2.00	1.86	
63 1,2-Dichloropropane	63	5.819	5.819	0.001	81	27541	2.00	1.89	
64 Dibromomethane	93	5.958	5.958	0.000	93	16086	2.00	1.90	
66 1,4-Dioxane	88	5.971	5.965	0.007	0	4266	40.0	45.7	M
67 Dichlorobromomethane	83	6.117	6.111	0.006	95	32647	2.00	1.87	
69 2-Chloroethyl vinyl ether	63	6.390	6.396	-0.006	90	19890	2.00	1.94	
71 cis-1,3-Dichloropropene	75	6.524	6.524	0.000	85	39705	2.00	1.93	
72 4-Methyl-2-pentanone (MIBK)	58	6.676	6.676	0.000	98	76605	10.0	9.68	
73 Toluene	92	6.810	6.810	0.000	96	61650	2.00	1.99	
75 trans-1,3-Dichloropropene	75	7.096	7.096	0.000	95	38323	2.00	1.99	
77 Ethyl methacrylate	69	7.145	7.145	0.000	88	31846	2.00	1.94	
78 1,1,2-Trichloroethane	83	7.285	7.285	0.000	91	18906	2.00	1.98	
79 Tetrachloroethene	166	7.339	7.339	0.000	92	27945	2.00	2.17	
80 1,3-Dichloropropane	76	7.443	7.443	0.000	93	40272	2.00	2.05	
82 2-Hexanone	43	7.516	7.516	0.000	97	159184	10.0	10.0	
83 Chlorodibromomethane	129	7.680	7.674	0.006	88	22998	2.00	1.96	
84 Ethylene Dibromide	107	7.777	7.777	0.000	97	22393	2.00	1.88	
85 Chlorobenzene	112	8.252	8.252	0.000	89	63469	2.00	1.89	
88 Ethylbenzene	91	8.349	8.349	0.000	97	111543	2.00	1.94	
89 1,1,1,2-Tetrachloroethane	131	8.355	8.349	0.006	45	27291	2.00	2.14	
90 m-Xylene & p-Xylene	106	8.471	8.471	0.000	97	42877	2.00	1.90	
91 o-Xylene	106	8.897	8.897	0.000	97	41695	2.00	1.90	
92 Styrene	104	8.927	8.927	0.000	92	64085	2.00	1.77	
93 Bromoform	173	9.177	9.171	0.006	92	15144	2.00	2.04	
95 Isopropylbenzene	105	9.280	9.280	0.000	97	112444	2.00	1.84	
97 Bromobenzene	156	9.627	9.627	0.000	90	28134	2.00	1.90	
98 1,1,2,2-Tetrachloroethane	83	9.694	9.700	-0.006	94	32196	2.00	2.00	
100 N-Propylbenzene	91	9.718	9.718	0.000	99	130473	2.00	1.89	
99 1,2,3-Trichloropropane	110	9.724	9.724	0.000	56	12239	2.00	2.33	
101 trans-1,4-Dichloro-2-butene	53	9.749	9.742	0.006	56	15339	2.00	2.13	
102 2-Chlorotoluene	126	9.822	9.822	0.000	96	27423	2.00	2.04	
104 1,3,5-Trimethylbenzene	105	9.901	9.901	0.000	93	97152	2.00	1.93	
105 4-Chlorotoluene	91	9.937	9.937	0.000	97	82178	2.00	1.80	
106 tert-Butylbenzene	134	10.223	10.223	0.000	94	19672	2.00	1.88	
108 1,2,4-Trimethylbenzene	105	10.278	10.278	0.000	97	95283	2.00	1.87	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.436	10.436	0.000	95	118139	2.00	1.87	
110 1,3-Dichlorobenzene	146	10.564	10.570	-0.006	97	54396	2.00	1.97	
111 4-Isopropyltoluene	119	10.576	10.576	0.000	96	95355	2.00	1.78	
113 1,4-Dichlorobenzene	146	10.655	10.661	-0.006	94	56134	2.00	1.98	
115 n-Butylbenzene	91	10.965	10.965	0.000	97	94692	2.00	1.98	
116 1,2-Dichlorobenzene	146	11.014	11.014	0.000	95	54231	2.00	1.99	
117 1,2-Dibromo-3-Chloropropane	75	11.750	11.750	0.000	74	6100	2.00	1.82	
119 1,2,4-Trichlorobenzene	180	12.431	12.425	0.006	94	37374	2.00	2.09	
120 Hexachlorobutadiene	225	12.541	12.541	0.000	89	15594	2.00	1.80	
121 Naphthalene	128	12.638	12.638	0.000	97	92450	2.00	1.87	
122 1,2,3-Trichlorobenzene	180	12.845	12.845	0.000	92	32470	2.00	1.90	
S 124 1,2-Dichloroethene, Total	1				0			3.93	
S 126 Xylenes, Total	1				0			3.80	
S 123 1,3-Dichloropropene, Total	1				0			3.91	
S 125 Total BTEX	1				0			9.73	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00225	Amount Added:	2.00	Units: uL	
GAS CORP mix_00512	Amount Added:	2.00	Units: uL	
N_8260_Surr_00440	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00232	Amount Added:	1.00	Units: uL	Run Reagent

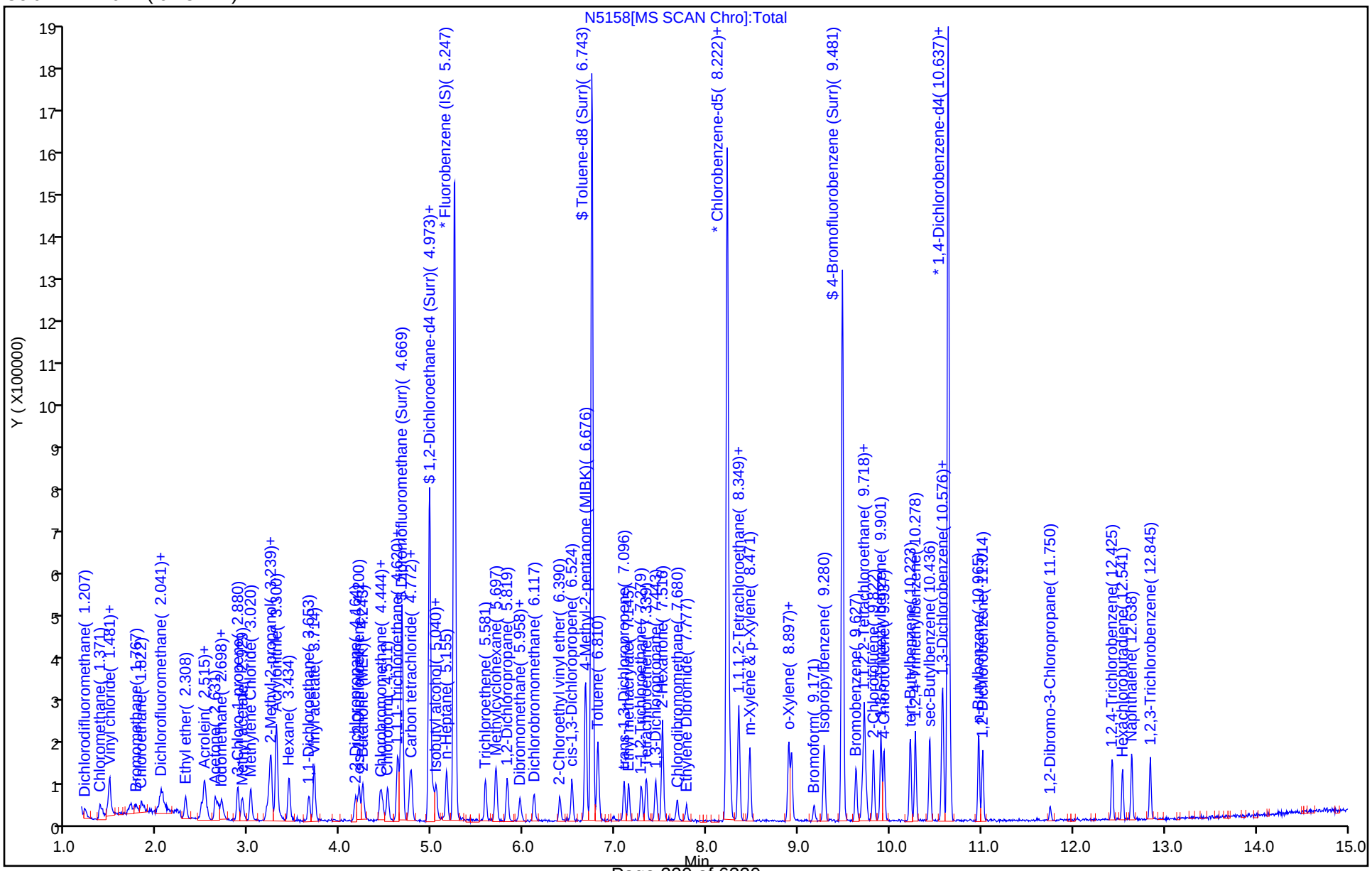
Report Date: 07-Jun-2022 10:08:24 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5158.D

Injection Date:	06-Jun-2022 18:37:30	Instrument ID:	HP5973N	Operator ID:	LH
Lims ID:	IC 2			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo

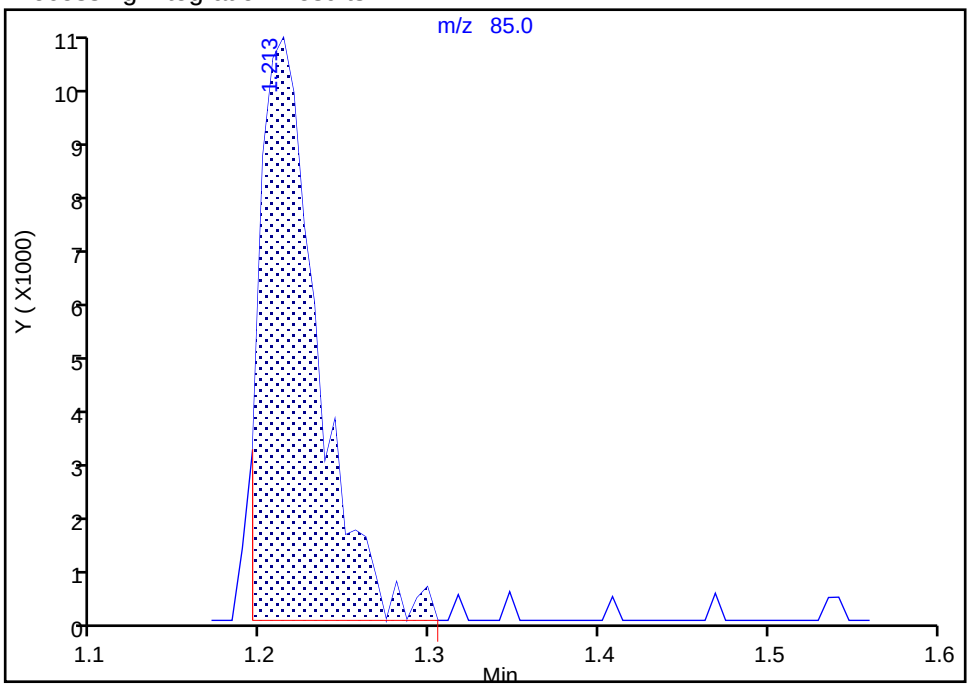
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5158.D
Injection Date: 06-Jun-2022 18:37:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 31 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

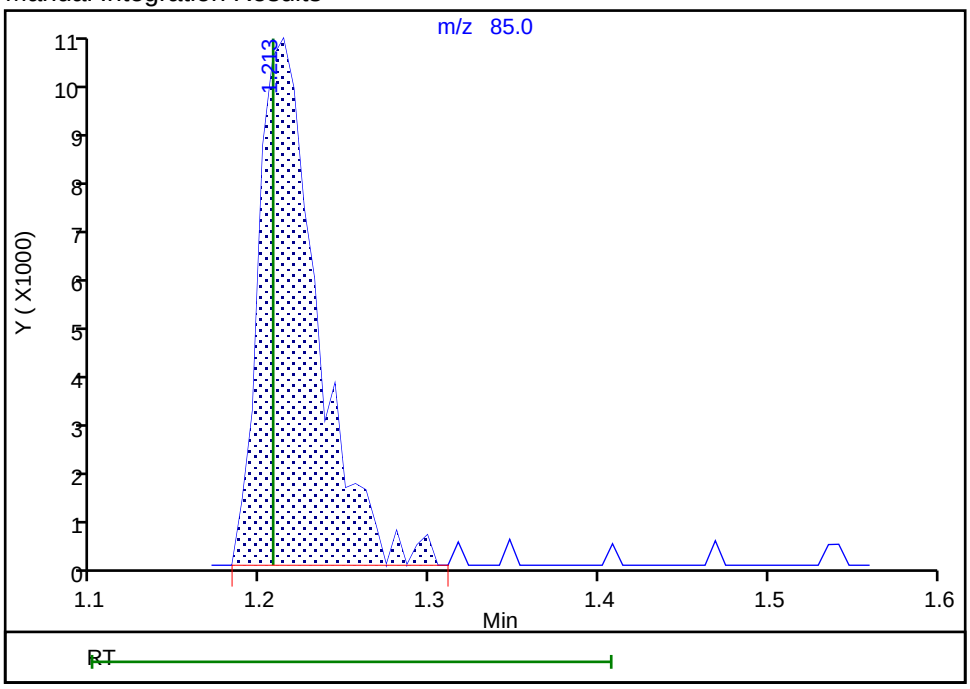
Processing Integration Results

RT: 1.21
Area: 24506
Amount: 2.023545
Amount Units: ug/L



Manual Integration Results

RT: 1.21
Area: 24974
Amount: 2.028274
Amount Units: ug/L



Reviewer: HillL, 07-Jun-2022 09:35:24
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

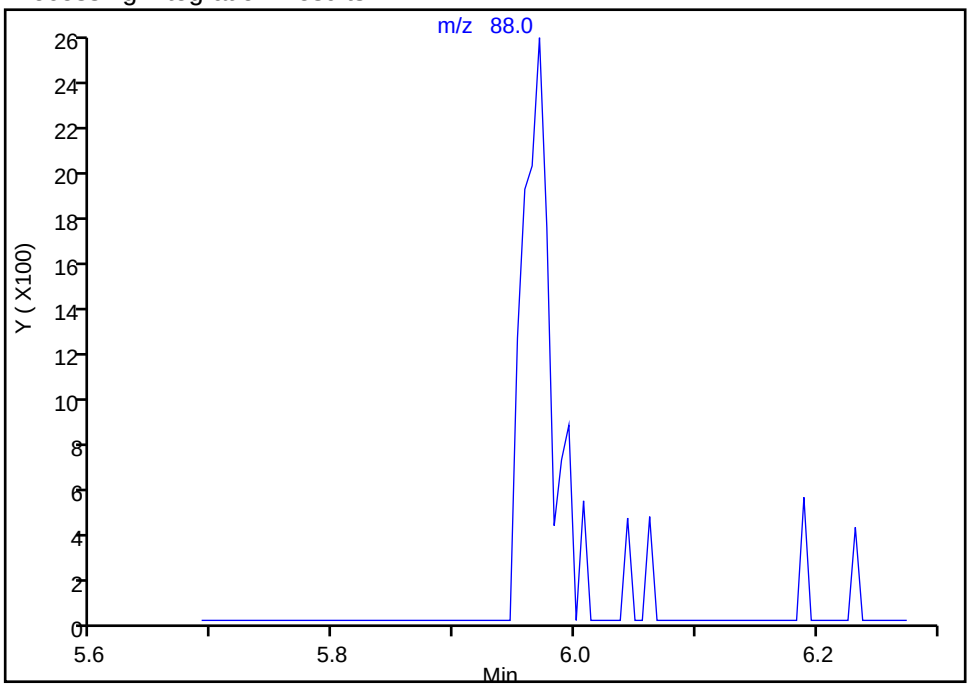
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5158.D
Injection Date: 06-Jun-2022 18:37:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 31 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

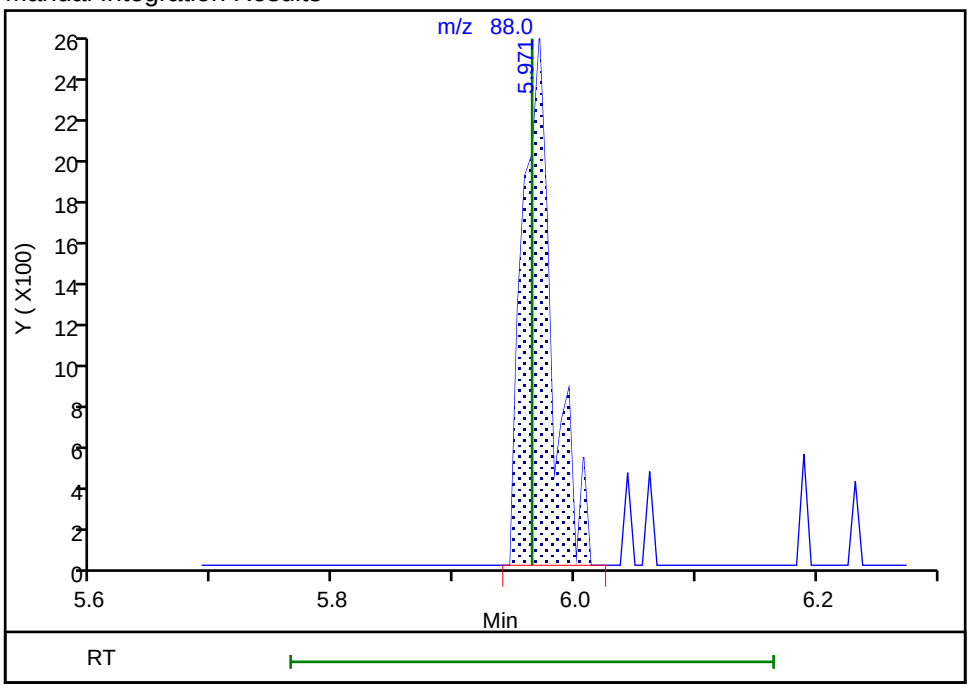
Not Detected
Expected RT: 5.96

Processing Integration Results



Manual Integration Results

RT: 5.97
Area: 4266
Amount: 45.680457
Amount Units: ug/L



Reviewer: HillL, 07-Jun-2022 09:35:39
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5159.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 06-Jun-2022 19:00:30 ALS Bottle#: 32 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0105916-012
Operator ID: LH Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jun-2022 10:08:26 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: HillL Date: 07-Jun-2022 09:36:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.241	5.241	0.000	97	219089	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.222	8.222	0.000	92	784257	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.637	10.637	0.000	96	395965	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.669	4.669	0.000	92	265663	25.0	25.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.973	4.973	0.000	95	393531	25.0	25.5	
$ 6 Toluene-d8 (Surr)	98	6.743	6.743	0.000	95	969551	25.0	24.6	
$ 7 4-Bromofluorobenzene (Surr)	174	9.481	9.481	0.000	86	314410	25.0	24.5	
11 Dichlorodifluoromethane	85	1.207	1.207	0.000	98	62769	5.00	5.32	M
13 Chloromethane	50	1.371	1.371	0.000	99	104474	5.00	5.28	
14 Vinyl chloride	62	1.463	1.463	0.000	97	65025	5.00	5.41	
144 Butadiene	54	1.481	1.481	0.000	90	86579	5.00	5.38	
15 Bromomethane	94	1.761	1.761	0.000	90	42093	5.00	5.48	
16 Chloroethane	64	1.834	1.834	0.000	97	46745	5.00	5.46	
17 Dichlorofluoromethane	67	2.041	2.041	0.000	96	101576	5.00	5.24	
18 Trichlorofluoromethane	101	2.035	2.035	0.000	93	90557	5.00	5.33	
19 Ethyl ether	59	2.308	2.308	0.000	96	75493	5.00	5.46	
20 Acrolein	56	2.485	2.485	0.000	98	67049	25.0	23.2	
22 1,1-Dichloroethene	96	2.515	2.515	0.000	94	48614	5.00	5.23	
21 112TCTFE	101	2.515	2.515	0.000	60	54521	5.00	5.52	
23 Acetone	43	2.631	2.631	0.000	98	196973	25.0	26.6	
24 Iodomethane	142	2.673	2.673	0.000	99	89151	5.00	5.47	
25 Carbon disulfide	76	2.704	2.704	0.000	98	166998	5.00	5.36	
27 3-Chloro-1-propene	41	2.874	2.874	0.000	85	132200	5.00	5.42	
28 Methyl acetate	43	2.923	2.923	0.000	100	179468	10.0	10.5	
30 Methylene Chloride	84	3.020	3.020	0.000	90	61286	5.00	5.43	
31 2-Methyl-2-propanol	59	3.196	3.196	0.000	97	108357	50.0	51.1	
32 Methyl tert-butyl ether	73	3.227	3.227	0.000	97	206474	5.00	5.22	
33 trans-1,2-Dichloroethene	96	3.245	3.245	0.000	89	60397	5.00	5.52	
34 Acrylonitrile	53	3.300	3.300	0.000	100	449899	50.0	53.1	
35 Hexane	57	3.434	3.434	0.000	94	124390	5.00	5.55	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.653	3.653	0.000	97	135593	5.00	5.23	
39 Vinyl acetate	43	3.714	3.714	0.000	97	453289	10.0	10.2	
42 2,2-Dichloropropane	77	4.170	4.170	0.000	89	85689	5.00	5.57	
43 cis-1,2-Dichloroethene	96	4.206	4.206	0.000	86	68608	5.00	5.50	
44 2-Butanone (MEK)	43	4.237	4.237	0.000	97	290478	25.0	26.3	
47 Chlorobromomethane	128	4.438	4.438	0.000	88	35298	5.00	5.40	
49 Tetrahydrofuran	42	4.456	4.456	0.000	93	75616	10.0	10.9	
50 Chloroform	83	4.517	4.517	0.000	94	115857	5.00	5.10	
51 1,1,1-Trichloroethane	97	4.620	4.620	0.000	90	102300	5.00	5.40	
52 Cyclohexane	56	4.626	4.626	0.000	95	140322	5.00	5.23	
53 Carbon tetrachloride	117	4.754	4.754	0.000	93	84849	5.00	4.97	
54 1,1-Dichloropropene	75	4.772	4.772	0.000	87	91502	5.00	5.44	
55 Benzene	78	4.973	4.973	0.000	74	258463	5.00	5.28	
56 Isobutyl alcohol	43	5.009	5.009	0.000	94	124779	125.0	131.2	
57 1,2-Dichloroethane	62	5.046	5.046	0.000	97	129374	5.00	5.16	
59 n-Heptane	43	5.155	5.155	0.000	95	138107	5.00	5.28	
60 Trichloroethene	95	5.587	5.587	0.000	93	68068	5.00	5.46	
62 Methylcyclohexane	83	5.703	5.703	0.000	96	108477	5.00	5.48	
63 1,2-Dichloropropane	63	5.819	5.819	0.000	81	69938	5.00	5.02	
64 Dibromomethane	93	5.958	5.958	0.000	95	42957	5.00	5.31	
66 1,4-Dioxane	88	5.971	5.971	0.000	32	10270	100.0	107.7	
67 Dichlorobromomethane	83	6.111	6.111	0.000	95	88100	5.00	5.27	
69 2-Chloroethyl vinyl ether	63	6.396	6.396	0.000	87	49940	5.00	5.07	
71 cis-1,3-Dichloropropene	75	6.524	6.524	0.000	84	105469	5.00	5.34	
72 4-Methyl-2-pentanone (MIBK)	58	6.676	6.676	0.000	99	201852	25.0	25.0	
73 Toluene	92	6.810	6.810	0.000	97	163517	5.00	5.17	
75 trans-1,3-Dichloropropene	75	7.096	7.096	0.000	93	100616	5.00	5.11	
77 Ethyl methacrylate	69	7.145	7.145	0.000	91	89400	5.00	5.34	
78 1,1,2-Trichloroethane	83	7.285	7.285	0.000	92	52195	5.00	5.36	
79 Tetrachloroethene	166	7.339	7.339	0.000	90	67708	5.00	5.16	
80 1,3-Dichloropropane	76	7.443	7.443	0.000	95	99408	5.00	4.94	
82 2-Hexanone	43	7.516	7.516	0.000	99	409518	25.0	25.2	
83 Chlorodibromomethane	129	7.674	7.674	0.000	90	59193	5.00	4.93	
84 Ethylene Dibromide	107	7.777	7.777	0.000	98	62291	5.00	5.13	
85 Chlorobenzene	112	8.252	8.252	0.000	91	179310	5.00	5.24	
88 Ethylbenzene	91	8.343	8.343	0.000	98	292646	5.00	4.98	
89 1,1,1,2-Tetrachloroethane	131	8.355	8.355	0.000	87	66566	5.00	5.11	
90 m-Xylene & p-Xylene	106	8.471	8.471	0.000	98	117091	5.00	5.07	
91 o-Xylene	106	8.891	8.891	0.000	98	110391	5.00	4.92	
92 Styrene	104	8.927	8.927	0.000	94	188516	5.00	5.11	
93 Bromoform	173	9.171	9.171	0.000	91	39150	5.00	5.15	
95 Isopropylbenzene	105	9.280	9.280	0.000	96	303975	5.00	5.13	
97 Bromobenzene	156	9.627	9.627	0.000	92	74135	5.00	5.19	
98 1,1,2,2-Tetrachloroethane	83	9.700	9.700	0.000	94	81444	5.00	5.24	
100 N-Propylbenzene	91	9.718	9.718	0.000	99	346190	5.00	5.18	
99 1,2,3-Trichloropropane	110	9.730	9.730	0.000	90	24857	5.00	4.88	
101 trans-1,4-Dichloro-2-butene	53	9.742	9.742	0.000	84	33855	5.00	4.87	
102 2-Chlorotoluene	126	9.815	9.815	0.000	95	70926	5.00	5.46	
104 1,3,5-Trimethylbenzene	105	9.901	9.901	0.000	94	251780	5.00	5.18	
105 4-Chlorotoluene	91	9.937	9.937	0.000	99	227223	5.00	5.16	
106 tert-Butylbenzene	134	10.223	10.223	0.000	94	49746	5.00	4.92	
108 1,2,4-Trimethylbenzene	105	10.278	10.278	0.000	98	253665	5.00	5.14	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.436	10.436	0.000	95	321814	5.00	5.26	
110 1,3-Dichlorobenzene	146	10.570	10.570	0.000	97	141243	5.00	5.28	
111 4-Isopropyltoluene	119	10.576	10.576	0.000	98	272701	5.00	5.25	
113 1,4-Dichlorobenzene	146	10.655	10.655	0.000	92	141098	5.00	5.15	
115 n-Butylbenzene	91	10.965	10.965	0.000	98	242744	5.00	5.25	
116 1,2-Dichlorobenzene	146	11.014	11.014	0.000	95	133467	5.00	5.07	
117 1,2-Dibromo-3-Chloropropane	75	11.750	11.750	0.000	73	14634	5.00	4.51	
119 1,2,4-Trichlorobenzene	180	12.425	12.425	0.000	93	95943	5.00	5.54	
120 Hexachlorobutadiene	225	12.541	12.541	0.000	95	48804	5.00	5.81	
121 Naphthalene	128	12.638	12.638	0.000	97	241909	5.00	5.05	
122 1,2,3-Trichlorobenzene	180	12.845	12.845	0.000	94	88179	5.00	5.33	
S 124 1,2-Dichloroethene, Total	1				0			11.0	
S 126 Xylenes, Total	1				0			10.0	
S 123 1,3-Dichloropropene, Total	1				0			10.4	
S 125 Total BTEX	1				0			25.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00225	Amount Added:	5.00	Units: uL	
GAS CORP mix_00512	Amount Added:	5.00	Units: uL	
N_8260_Surr_00440	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00232	Amount Added:	1.00	Units: uL	Run Reagent

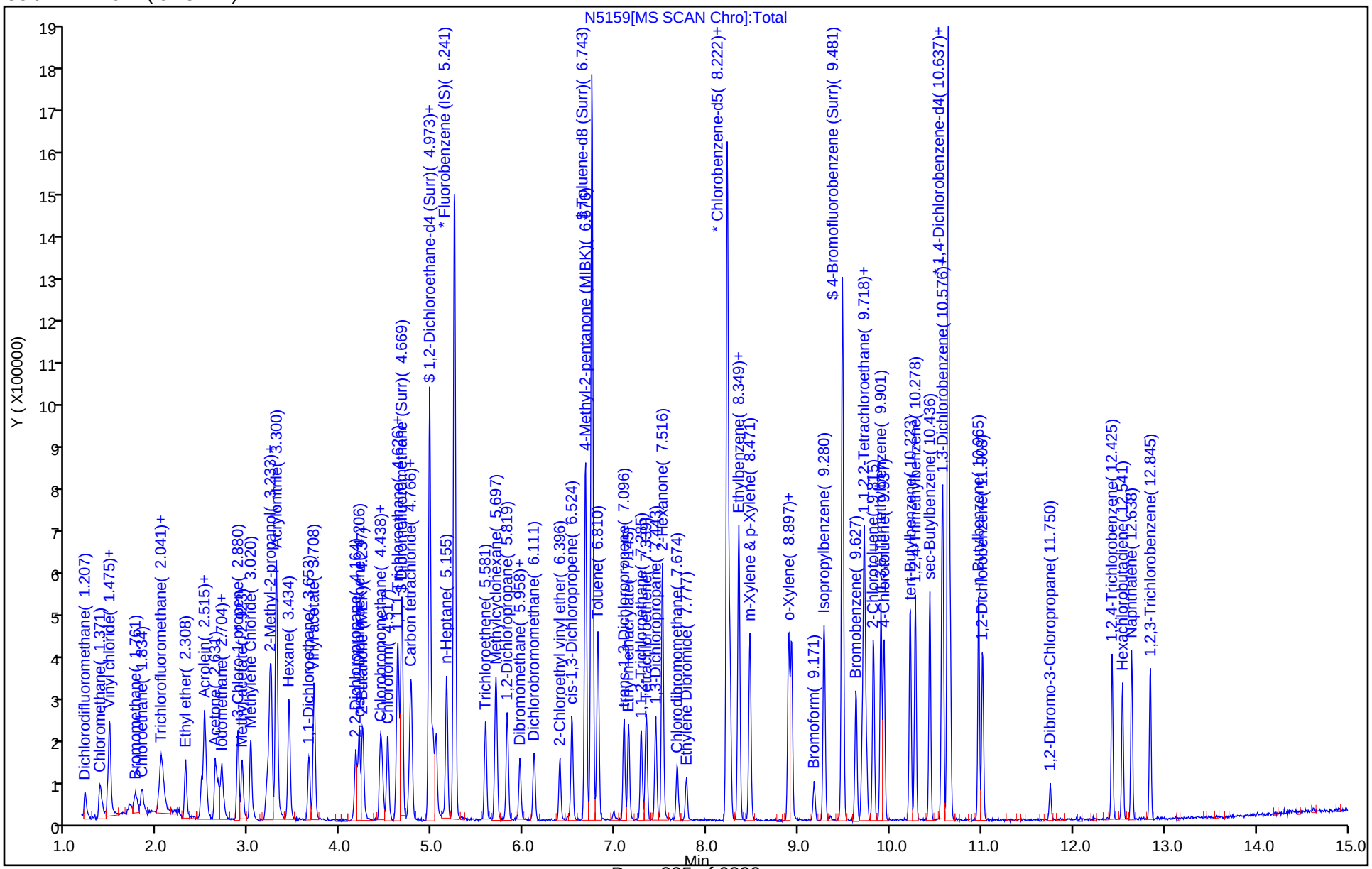
Report Date: 07-Jun-2022 10:08:27 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5159.D

Injection Date:	06-Jun-2022 19:00:30	Instrument ID:	HP5973N	Operator ID:	LH
Lims ID:	IC 3			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo

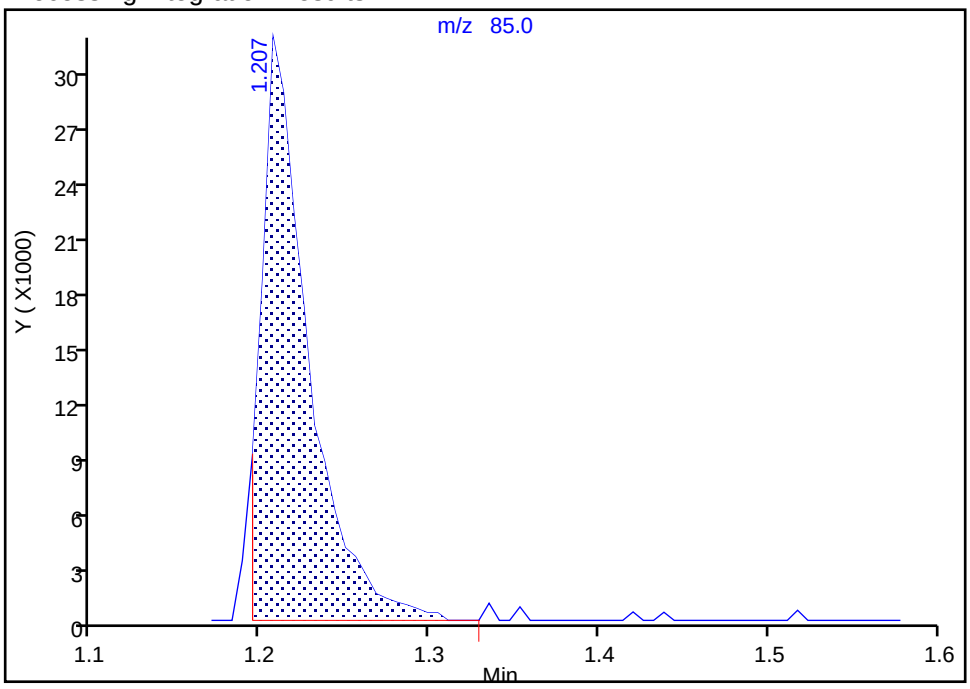
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5159.D
Injection Date: 06-Jun-2022 19:00:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 32 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

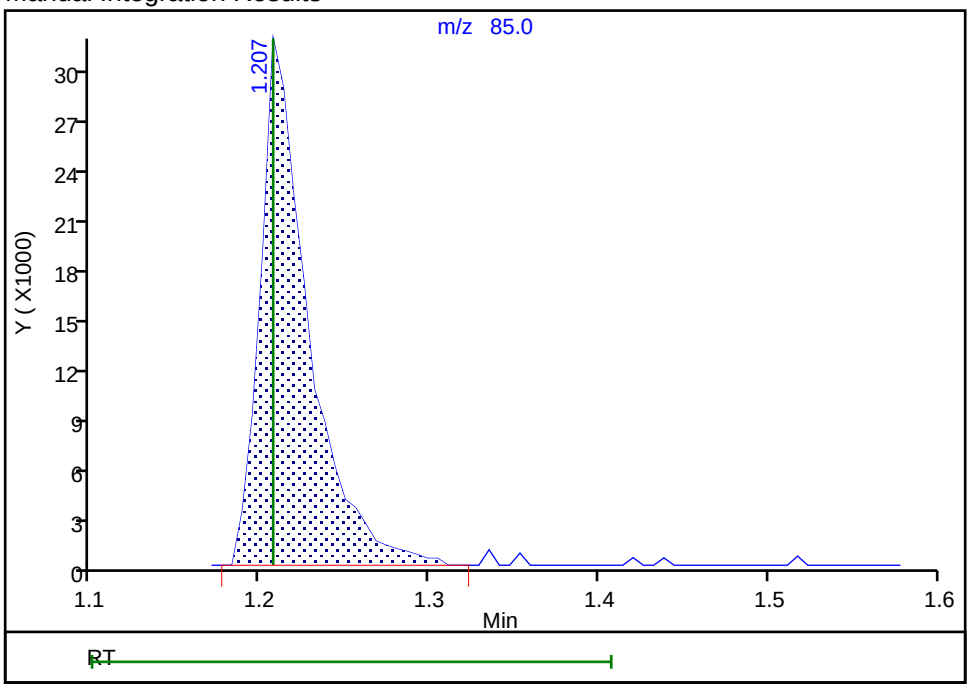
Processing Integration Results

RT: 1.21
Area: 61581
Amount: 5.294470
Amount Units: ug/L



Manual Integration Results

RT: 1.21
Area: 62769
Amount: 5.320675
Amount Units: ug/L



Reviewer: HillL, 07-Jun-2022 09:36:09
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5160.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 06-Jun-2022 19:24:30 ALS Bottle#: 33 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0105916-013
Operator ID: LH Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jun-2022 10:08:29 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: HillL Date: 07-Jun-2022 09:37:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.247	5.241	0.006	97	220705	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.222	8.222	0.000	92	775677	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.637	10.637	0.000	96	389802	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.675	4.669	0.006	91	267604	25.0	25.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.973	4.973	0.000	83	395266	25.0	25.4	
$ 6 Toluene-d8 (Surr)	98	6.743	6.743	0.000	95	988933	25.0	25.4	
$ 7 4-Bromofluorobenzene (Surr)	174	9.487	9.481	0.006	91	318256	25.0	25.0	
11 Dichlorodifluoromethane	85	1.213	1.207	0.006	98	136181	10.0	11.5	M
13 Chloromethane	50	1.372	1.371	0.001	98	209493	10.0	10.5	
14 Vinyl chloride	62	1.463	1.463	0.000	98	139643	10.0	11.5	
144 Butadiene	54	1.481	1.481	0.000	91	177928	10.0	11.0	
15 Bromomethane	94	1.761	1.761	0.000	92	80347	10.0	10.4	
16 Chloroethane	64	1.834	1.834	0.000	96	93851	10.0	10.9	
18 Trichlorofluoromethane	101	2.053	2.035	0.018	73	192618	10.0	11.3	
17 Dichlorofluoromethane	67	2.047	2.041	0.006	95	199558	10.0	10.2	
19 Ethyl ether	59	2.308	2.308	0.000	97	142411	10.0	10.2	
20 Acrolein	56	2.479	2.485	-0.006	98	140469	50.0	48.3	
22 1,1-Dichloroethene	96	2.515	2.515	0.000	90	98165	10.0	10.5	
21 112TCTFE	101	2.521	2.515	0.006	90	108281	10.0	10.9	
23 Acetone	43	2.637	2.631	0.006	98	380244	50.0	51.0	
24 Iodomethane	142	2.667	2.673	-0.006	98	166799	10.0	10.2	
25 Carbon disulfide	76	2.704	2.704	0.000	99	341272	10.0	10.9	
27 3-Chloro-1-propene	41	2.880	2.874	0.006	85	269702	10.0	11.0	
28 Methyl acetate	43	2.923	2.923	0.000	100	340255	20.0	19.8	
30 Methylene Chloride	84	3.020	3.020	0.000	91	123192	10.0	11.0	
31 2-Methyl-2-propanol	59	3.190	3.196	-0.006	98	216047	100.0	101.2	
32 Methyl tert-butyl ether	73	3.233	3.227	0.006	97	401587	10.0	10.1	
33 trans-1,2-Dichloroethene	96	3.245	3.245	0.000	90	119178	10.0	10.8	
34 Acrylonitrile	53	3.300	3.300	0.000	98	877960	100.0	103.0	
35 Hexane	57	3.440	3.434	0.006	94	245576	10.0	10.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.653	3.653	0.000	98	278383	10.0	10.7	
39 Vinyl acetate	43	3.714	3.714	0.000	97	903528	20.0	20.2	
42 2,2-Dichloropropane	77	4.164	4.170	-0.006	87	165424	10.0	10.7	
43 cis-1,2-Dichloroethene	96	4.206	4.206	0.000	87	131239	10.0	10.4	
44 2-Butanone (MEK)	43	4.243	4.237	0.006	96	559899	50.0	50.3	
47 Chlorobromomethane	128	4.438	4.438	0.000	87	67739	10.0	10.3	
49 Tetrahydrofuran	42	4.450	4.456	-0.006	91	138218	20.0	19.8	
50 Chloroform	83	4.517	4.517	0.000	95	227907	10.0	9.97	
51 1,1,1-Trichloroethane	97	4.620	4.620	0.000	93	208662	10.0	10.9	
52 Cyclohexane	56	4.626	4.626	0.000	93	306231	10.0	11.3	
53 Carbon tetrachloride	117	4.760	4.754	0.006	95	182945	10.0	10.6	
54 1,1-Dichloropropene	75	4.772	4.772	0.000	87	181366	10.0	10.7	
55 Benzene	78	4.973	4.973	0.000	88	524459	10.0	10.6	
56 Isobutyl alcohol	43	5.009	5.009	0.000	93	247723	250.0	258.5	
57 1,2-Dichloroethane	62	5.046	5.046	0.000	95	246443	10.0	9.76	
59 n-Heptane	43	5.162	5.155	0.007	96	284068	10.0	10.8	
60 Trichloroethene	95	5.587	5.587	0.000	92	128395	10.0	10.2	
62 Methylcyclohexane	83	5.697	5.703	-0.006	95	216696	10.0	10.9	
63 1,2-Dichloropropane	63	5.819	5.819	0.001	84	146364	10.0	10.4	
64 Dibromomethane	93	5.959	5.958	0.001	94	85997	10.0	10.5	
66 1,4-Dioxane	88	5.965	5.971	-0.006	32	17754	200.0	188.2	
67 Dichlorobromomethane	83	6.117	6.111	0.006	96	174234	10.0	10.3	
69 2-Chloroethyl vinyl ether	63	6.397	6.396	0.001	90	99408	10.0	10.0	
71 cis-1,3-Dichloropropene	75	6.530	6.524	0.006	86	205373	10.0	10.3	
72 4-Methyl-2-pentanone (MIBK)	58	6.676	6.676	0.000	99	402660	50.0	50.4	
73 Toluene	92	6.810	6.810	0.000	97	331753	10.0	10.6	
75 trans-1,3-Dichloropropene	75	7.096	7.096	0.000	95	192537	10.0	9.88	
77 Ethyl methacrylate	69	7.145	7.145	0.000	87	155434	10.0	9.39	
78 1,1,2-Trichloroethane	83	7.285	7.285	0.000	94	96832	10.0	10.1	
79 Tetrachloroethene	166	7.339	7.339	0.000	94	129977	10.0	10.0	
80 1,3-Dichloropropane	76	7.443	7.443	0.000	91	197357	10.0	9.93	
82 2-Hexanone	43	7.516	7.516	0.000	98	790264	50.0	49.1	
83 Chlorodibromomethane	129	7.680	7.674	0.006	90	122386	10.0	10.3	
84 Ethylene Dibromide	107	7.778	7.777	0.001	98	122854	10.0	10.2	
85 Chlorobenzene	112	8.252	8.252	0.000	93	351169	10.0	10.4	
88 Ethylbenzene	91	8.349	8.343	0.006	98	592682	10.0	10.2	
89 1,1,1,2-Tetrachloroethane	131	8.349	8.355	-0.006	92	129777	10.0	10.1	
90 m-Xylene & p-Xylene	106	8.471	8.471	0.000	97	238725	10.0	10.5	
91 o-Xylene	106	8.897	8.891	0.006	96	233083	10.0	10.5	
92 Styrene	104	8.927	8.927	0.000	94	378701	10.0	10.4	
93 Bromoform	173	9.171	9.171	0.000	94	76546	10.0	10.2	
95 Isopropylbenzene	105	9.280	9.280	0.000	97	618015	10.0	10.6	
97 Bromobenzene	156	9.627	9.627	0.000	93	138964	10.0	9.88	
98 1,1,2,2-Tetrachloroethane	83	9.694	9.700	-0.006	94	156859	10.0	10.2	
100 N-Propylbenzene	91	9.718	9.718	0.000	99	689363	10.0	10.5	
99 1,2,3-Trichloropropane	110	9.730	9.730	0.000	90	52163	10.0	10.4	
101 trans-1,4-Dichloro-2-butene	53	9.743	9.742	0.000	77	71459	10.0	10.4	
102 2-Chlorotoluene	126	9.822	9.815	0.007	95	137943	10.0	10.8	
104 1,3,5-Trimethylbenzene	105	9.901	9.901	0.000	94	499921	10.0	10.4	
105 4-Chlorotoluene	91	9.931	9.937	-0.006	98	476490	10.0	11.0	
106 tert-Butylbenzene	134	10.223	10.223	0.000	95	108732	10.0	10.9	
108 1,2,4-Trimethylbenzene	105	10.278	10.278	0.000	98	519425	10.0	10.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.436	10.436	0.000	95	661417	10.0	11.0	
110 1,3-Dichlorobenzene	146	10.570	10.570	0.000	95	281687	10.0	10.7	
111 4-Isopropyltoluene	119	10.582	10.576	0.006	97	550320	10.0	10.8	
113 1,4-Dichlorobenzene	146	10.661	10.655	0.006	93	289342	10.0	10.7	
115 n-Butylbenzene	91	10.971	10.965	0.006	98	481553	10.0	10.6	
116 1,2-Dichlorobenzene	146	11.014	11.014	0.000	96	272616	10.0	10.5	
117 1,2-Dibromo-3-Chloropropane	75	11.744	11.750	-0.006	68	33672	10.0	10.6	
119 1,2,4-Trichlorobenzene	180	12.425	12.425	0.000	93	183804	10.0	10.8	
120 Hexachlorobutadiene	225	12.541	12.541	0.000	95	93582	10.0	11.3	
121 Naphthalene	128	12.638	12.638	0.000	97	492630	10.0	10.4	
122 1,2,3-Trichlorobenzene	180	12.845	12.845	0.000	95	167337	10.0	10.3	
S 124 1,2-Dichloroethene, Total	1				0			21.3	
S 126 Xylenes, Total	1				0			21.0	
S 123 1,3-Dichloropropene, Total	1				0			20.2	
S 125 Total BTEX	1				0			52.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00225	Amount Added:	5.00	Units: uL	
GAS CORP mix_00512	Amount Added:	5.00	Units: uL	
N_8260_Surr_00440	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00232	Amount Added:	1.00	Units: uL	Run Reagent

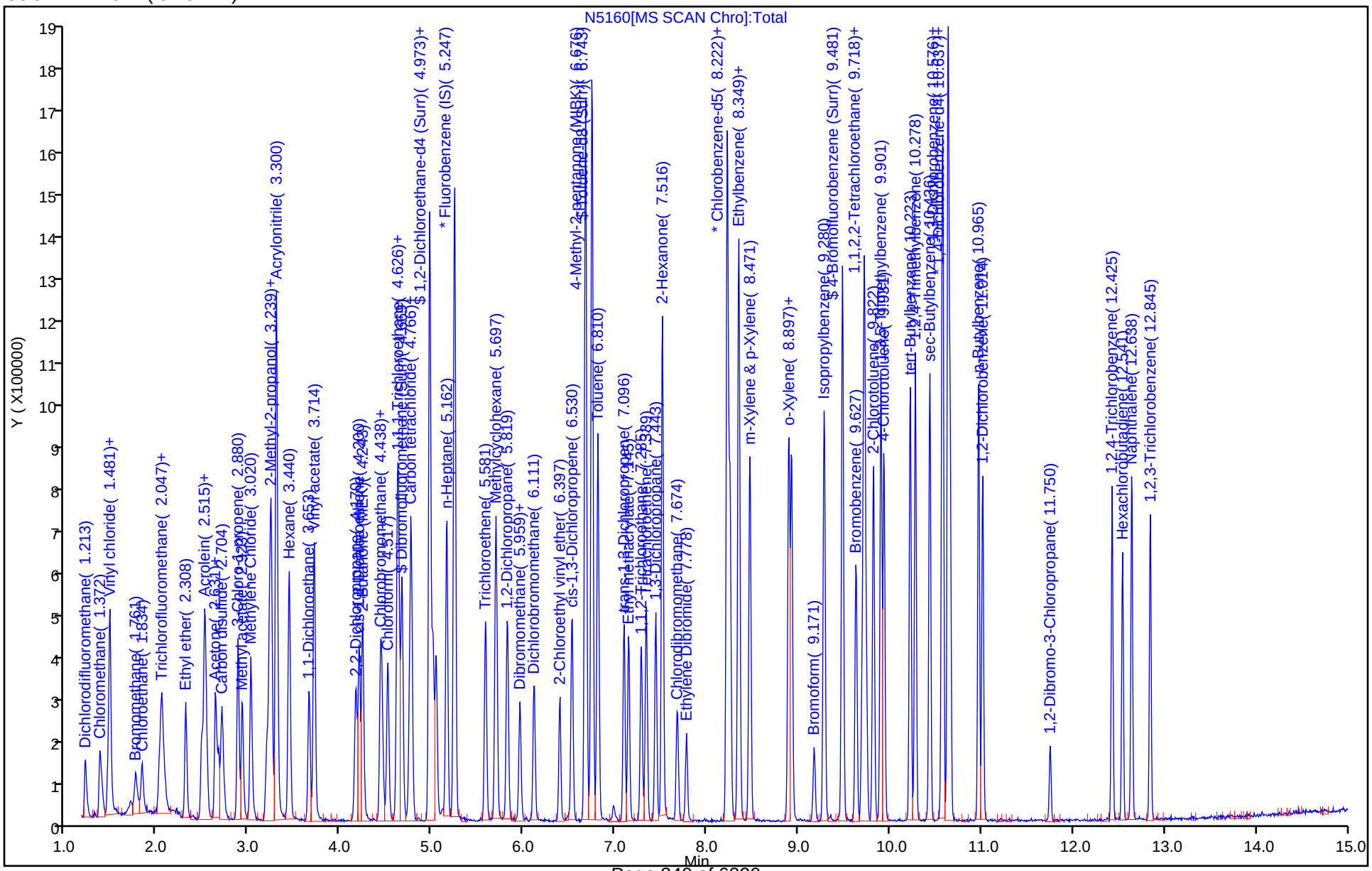
Report Date: 07-Jun-2022 10:08:30 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5160.D

Injection Date:	06-Jun-2022 19:24:30	Instrument ID:	HP5973N	Operator ID:	LH
Lims ID:	IC 4			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo

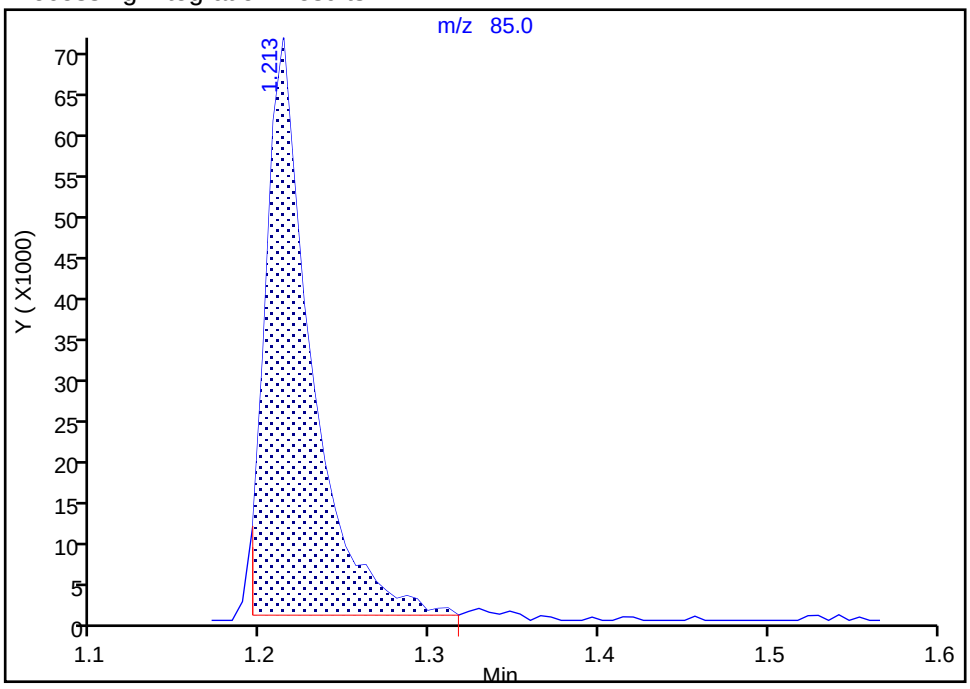
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5160.D
Injection Date: 06-Jun-2022 19:24:30 Instrument ID: HP5973N
Lims ID: IC 4
Client ID:
Operator ID: LH ALS Bottle#: 33 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

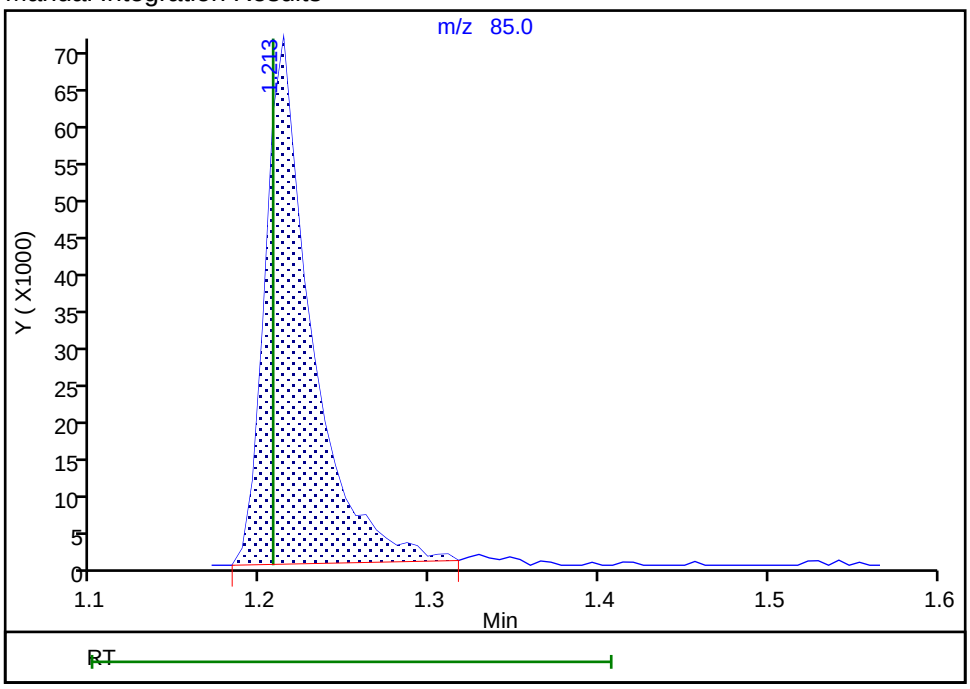
Processing Integration Results

RT: 1.21
Area: 133107
Amount: 11.331242
Amount Units: ug/L



Manual Integration Results

RT: 1.21
Area: 136181
Amount: 11.458992
Amount Units: ug/L



Reviewer: HillL, 07-Jun-2022 09:36:45
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5161.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 06-Jun-2022 19:47:30 ALS Bottle#: 34 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0105916-014
Operator ID: LH Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jun-2022 10:08:31 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: HillL Date: 07-Jun-2022 09:31:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.241	5.241	0.000	97	223510	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.222	8.222	0.000	92	770261	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.637	10.637	0.000	95	392826	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.669	4.669	0.000	91	263859	25.0	24.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.973	4.973	0.000	61	393539	25.0	25.0	
$ 6 Toluene-d8 (Surr)	98	6.743	6.743	0.000	95	968003	25.0	25.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.481	9.481	0.000	86	318893	25.0	25.3	
11 Dichlorodifluoromethane	85	1.207	1.207	0.000	97	312962	25.0	26.0	
13 Chloromethane	50	1.371	1.371	0.000	99	495581	25.0	24.5	
14 Vinyl chloride	62	1.457	1.457	0.000	98	349288	25.0	28.5	
144 Butadiene	54	1.475	1.475	0.000	94	429367	25.0	26.1	
15 Bromomethane	94	1.761	1.761	0.000	93	189974	25.0	24.2	
16 Chloroethane	64	1.828	1.828	0.000	96	222357	25.0	25.5	
18 Trichlorofluoromethane	101	2.047	2.047	0.000	89	463016	25.0	26.7	
17 Dichlorofluoromethane	67	2.047	2.047	0.000	97	496808	25.0	25.1	
19 Ethyl ether	59	2.308	2.308	0.000	99	349478	25.0	24.8	
20 Acrolein	56	2.479	2.479	0.000	99	352858	125.0	119.9	
22 1,1-Dichloroethene	96	2.509	2.509	0.000	90	231198	25.0	24.4	
21 112TCTFE	101	2.521	2.521	0.000	93	256813	25.0	25.5	
23 Acetone	43	2.631	2.631	0.000	98	920252	125.0	121.8	
24 Iodomethane	142	2.667	2.667	0.000	99	429767	25.0	25.8	
25 Carbon disulfide	76	2.704	2.704	0.000	99	820586	25.0	25.8	
27 3-Chloro-1-propene	41	2.874	2.874	0.000	85	640022	25.0	25.7	
28 Methyl acetate	43	2.923	2.923	0.000	100	823576	50.0	47.2	
30 Methylene Chloride	84	3.020	3.020	0.000	91	292268	25.0	25.9	
31 2-Methyl-2-propanol	59	3.196	3.196	0.000	99	534726	250.0	247.2	
32 Methyl tert-butyl ether	73	3.227	3.227	0.000	98	1015014	25.0	25.2	
33 trans-1,2-Dichloroethene	96	3.245	3.245	0.000	89	288919	25.0	25.9	
34 Acrylonitrile	53	3.300	3.300	0.000	96	2185367	250.0	253.1	
35 Hexane	57	3.434	3.434	0.000	95	594827	25.0	26.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.653	3.653	0.000	97	654782	25.0	24.8	
39 Vinyl acetate	43	3.708	3.708	0.000	97	2278614	50.0	50.2	
42 2,2-Dichloropropane	77	4.164	4.164	0.000	85	394428	25.0	25.1	
43 cis-1,2-Dichloroethene	96	4.200	4.200	0.000	85	317669	25.0	25.0	
44 2-Butanone (MEK)	43	4.237	4.237	0.000	97	1380714	125.0	122.4	
47 Chlorobromomethane	128	4.431	4.431	0.000	88	165079	25.0	24.7	
49 Tetrahydrofuran	42	4.450	4.450	0.000	93	349843	50.0	49.5	
50 Chloroform	83	4.517	4.517	0.000	96	573506	25.0	24.8	
51 1,1,1-Trichloroethane	97	4.620	4.620	0.000	95	493160	25.0	25.5	
52 Cyclohexane	56	4.626	4.626	0.000	95	719000	25.0	26.3	
53 Carbon tetrachloride	117	4.754	4.754	0.000	94	444902	25.0	25.6	
54 1,1-Dichloropropene	75	4.772	4.772	0.000	85	430392	25.0	25.1	
55 Benzene	78	4.973	4.973	0.000	93	1245853	25.0	24.9	
56 Isobutyl alcohol	43	5.009	5.009	0.000	94	617964	625.0	636.8	
57 1,2-Dichloroethane	62	5.040	5.040	0.000	96	602848	25.0	23.6	
59 n-Heptane	43	5.155	5.155	0.000	97	697432	25.0	26.1	
60 Trichloroethene	95	5.581	5.581	0.000	94	318457	25.0	25.0	
62 Methylcyclohexane	83	5.697	5.697	0.000	96	523379	25.0	25.9	
63 1,2-Dichloropropane	63	5.819	5.819	0.000	88	366565	25.0	25.8	
64 Dibromomethane	93	5.958	5.958	0.000	94	208604	25.0	25.3	
66 1,4-Dioxane	88	5.965	5.965	0.000	41	51381	500.0	548.4	
67 Dichlorobromomethane	83	6.111	6.111	0.000	96	430492	25.0	25.2	
69 2-Chloroethyl vinyl ether	63	6.396	6.396	0.000	90	248815	25.0	24.8	
71 cis-1,3-Dichloropropene	75	6.524	6.524	0.000	85	514121	25.0	25.5	
72 4-Methyl-2-pentanone (MIBK)	58	6.676	6.676	0.000	99	987031	125.0	124.3	
73 Toluene	92	6.810	6.810	0.000	97	776868	25.0	25.0	
75 trans-1,3-Dichloropropene	75	7.096	7.096	0.000	94	494929	25.0	25.6	
77 Ethyl methacrylate	69	7.145	7.145	0.000	91	419005	25.0	25.5	
78 1,1,2-Trichloroethane	83	7.285	7.285	0.000	94	231333	25.0	24.2	
79 Tetrachloroethene	166	7.339	7.339	0.000	95	330483	25.0	25.6	
80 1,3-Dichloropropane	76	7.443	7.443	0.000	92	486369	25.0	24.6	
82 2-Hexanone	43	7.516	7.516	0.000	98	1945402	125.0	121.7	
83 Chlorodibromomethane	129	7.674	7.674	0.000	89	315513	25.0	26.8	
84 Ethylene Dibromide	107	7.777	7.777	0.000	98	296930	25.0	24.9	
85 Chlorobenzene	112	8.252	8.252	0.000	91	871734	25.0	25.9	
88 Ethylbenzene	91	8.349	8.349	0.000	98	1456041	25.0	25.2	
89 1,1,1,2-Tetrachloroethane	131	8.349	8.349	0.000	91	329020	25.0	25.7	
90 m-Xylene & p-Xylene	106	8.471	8.471	0.000	97	588312	25.0	25.9	
91 o-Xylene	106	8.897	8.897	0.000	97	567822	25.0	25.8	
92 Styrene	104	8.927	8.927	0.000	95	971868	25.0	26.8	
93 Bromoform	173	9.171	9.171	0.000	95	200969	25.0	26.9	
95 Isopropylbenzene	105	9.280	9.280	0.000	97	1537083	25.0	26.1	
97 Bromobenzene	156	9.627	9.627	0.000	96	356989	25.0	25.2	
98 1,1,2,2-Tetrachloroethane	83	9.700	9.700	0.000	97	389118	25.0	25.2	
100 N-Propylbenzene	91	9.718	9.718	0.000	99	1762335	25.0	26.6	
99 1,2,3-Trichloropropane	110	9.724	9.724	0.000	90	131271	25.0	26.0	
101 trans-1,4-Dichloro-2-butene	53	9.742	9.742	0.000	84	180905	25.0	26.2	
102 2-Chlorotoluene	126	9.822	9.822	0.000	94	331109	25.0	25.7	
104 1,3,5-Trimethylbenzene	105	9.901	9.901	0.000	94	1281649	25.0	26.6	
105 4-Chlorotoluene	91	9.937	9.937	0.000	99	1200850	25.0	27.5	
106 tert-Butylbenzene	134	10.223	10.223	0.000	95	257543	25.0	25.7	
108 1,2,4-Trimethylbenzene	105	10.278	10.278	0.000	98	1280507	25.0	26.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.436	10.436	0.000	96	1626549	25.0	26.8	
110 1,3-Dichlorobenzene	146	10.570	10.570	0.000	96	685298	25.0	25.8	
111 4-Isopropyltoluene	119	10.576	10.576	0.000	98	1359517	25.0	26.4	
113 1,4-Dichlorobenzene	146	10.661	10.661	0.000	95	691187	25.0	25.4	
115 n-Butylbenzene	91	10.965	10.965	0.000	98	1207064	25.0	26.3	
116 1,2-Dichlorobenzene	146	11.014	11.014	0.000	95	671986	25.0	25.7	
117 1,2-Dibromo-3-Chloropropane	75	11.750	11.750	0.000	87	80597	25.0	25.1	
119 1,2,4-Trichlorobenzene	180	12.425	12.425	0.000	93	464406	25.0	27.0	
120 Hexachlorobutadiene	225	12.541	12.541	0.000	97	218569	25.0	26.2	
121 Naphthalene	128	12.638	12.638	0.000	97	1298406	25.0	27.3	
122 1,2,3-Trichlorobenzene	180	12.845	12.845	0.000	95	432878	25.0	26.4	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00225	Amount Added: 12.50	Units: uL	
GAS CORP mix_00512	Amount Added: 12.50	Units: uL	
N_8260_Surr_00440	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00232	Amount Added: 1.00	Units: uL	Run Reagent

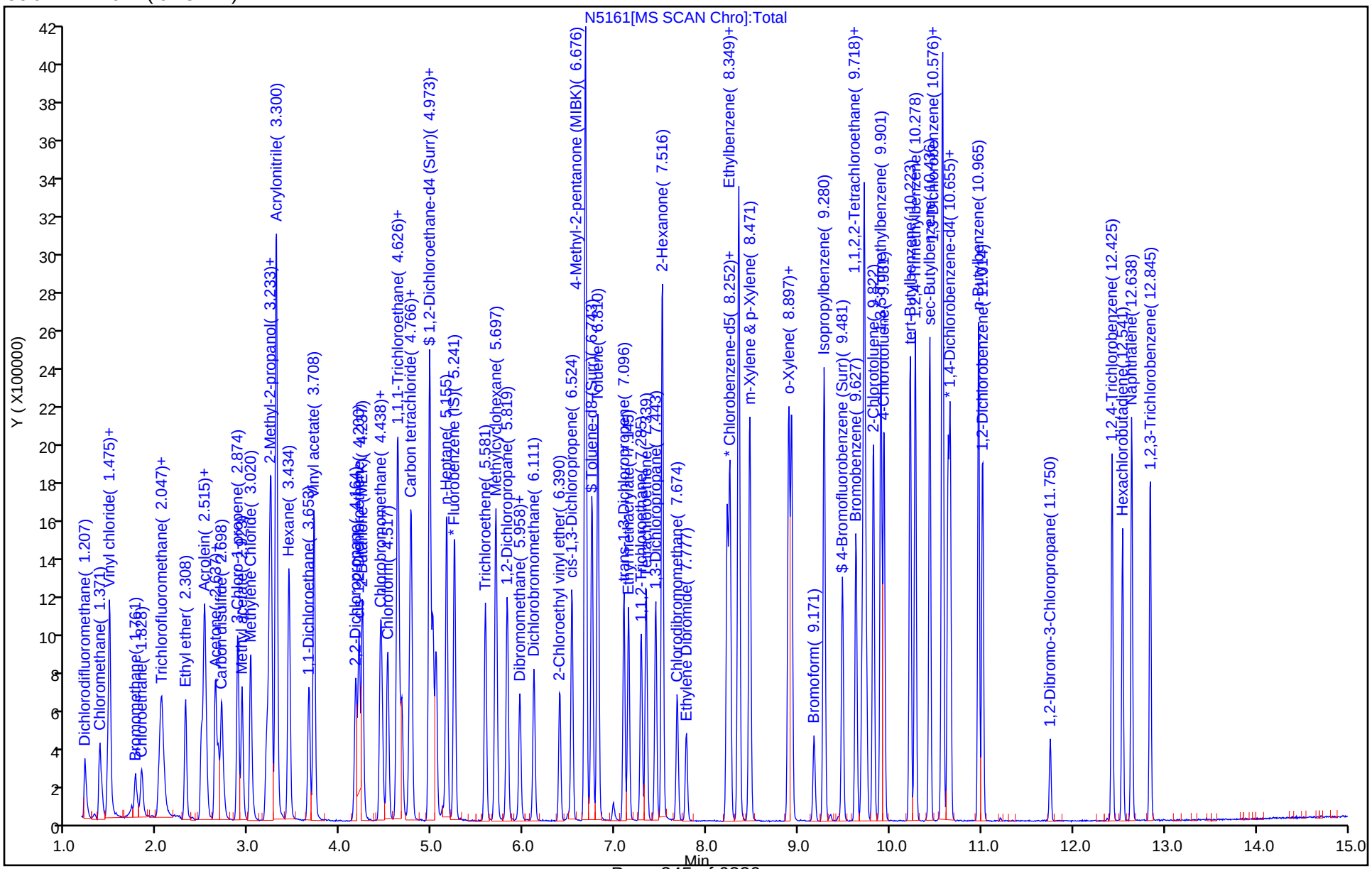
Report Date: 07-Jun-2022 10:08:32 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5161.D

Injection Date:	06-Jun-2022 19:47:30	Instrument ID:	HP5973N	Operator ID:	LH
Lims ID:	ICIS 5			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5162.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 06-Jun-2022 20:10:30 ALS Bottle#: 35 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0105916-015
Operator ID: LH Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jun-2022 10:08:34 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: HillL Date: 07-Jun-2022 09:39:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.247	5.241	0.006	97	232760	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.221	8.222	-0.001	93	816970	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.637	10.637	0.000	95	424322	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.675	4.669	0.006	92	281517	25.0	25.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.973	4.973	0.000	50	411973	25.0	25.1	
$ 6 Toluene-d8 (Surr)	98	6.743	6.743	0.000	95	1025439	25.0	25.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.481	9.481	0.000	86	336304	25.0	25.1	
11 Dichlorodifluoromethane	85	1.213	1.207	0.006	98	604306	50.0	48.2	M
13 Chloromethane	50	1.377	1.371	0.006	99	972295	50.0	46.2	
14 Vinyl chloride	62	1.463	1.457	0.006	97	681501	50.0	53.4	
144 Butadiene	54	1.481	1.475	0.006	91	810842	50.0	47.4	
15 Bromomethane	94	1.761	1.761	0.000	93	367691	50.0	45.0	
16 Chloroethane	64	1.834	1.828	0.006	97	432454	50.0	47.6	
17 Dichlorofluoromethane	67	2.047	2.047	0.000	97	970339	50.0	47.1	
18 Trichlorofluoromethane	101	2.053	2.047	0.006	96	895907	50.0	49.7	
19 Ethyl ether	59	2.308	2.308	0.000	99	716051	50.0	48.7	
20 Acrolein	56	2.479	2.479	0.000	99	729059	250.0	237.9	
22 1,1-Dichloroethene	96	2.515	2.509	0.006	90	478722	50.0	48.5	
21 112TCTFE	101	2.527	2.521	0.006	94	506686	50.0	48.3	
23 Acetone	43	2.637	2.631	0.006	97	1864953	250.0	237.0	
24 Iodomethane	142	2.667	2.667	0.000	99	865462	50.0	50.0	
25 Carbon disulfide	76	2.704	2.704	0.000	99	1637524	50.0	49.5	
27 3-Chloro-1-propene	41	2.880	2.874	0.006	85	1280415	50.0	49.4	
28 Methyl acetate	43	2.929	2.923	0.006	100	1684036	100.0	92.7	
30 Methylene Chloride	84	3.020	3.020	0.000	91	587995	50.0	50.1	
31 2-Methyl-2-propanol	59	3.196	3.196	0.000	97	1098049	500.0	487.5	
32 Methyl tert-butyl ether	73	3.227	3.227	0.000	98	2062050	50.0	49.1	
33 trans-1,2-Dichloroethene	96	3.245	3.245	0.000	89	575092	50.0	49.5	
34 Acrylonitrile	53	3.300	3.300	0.000	97	4443401	500.0	494.1	
35 Hexane	57	3.440	3.434	0.006	95	1191207	50.0	50.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.653	3.653	0.000	97	1304457	50.0	47.4	
39 Vinyl acetate	43	3.714	3.708	0.006	97	4818362	100.0	101.9	
42 2,2-Dichloropropane	77	4.170	4.164	0.006	88	722401	50.0	44.2	
43 cis-1,2-Dichloroethene	96	4.200	4.200	0.000	86	651944	50.0	49.2	
44 2-Butanone (MEK)	43	4.237	4.237	0.000	97	2872698	250.0	244.6	
47 Chlorobromomethane	128	4.437	4.431	0.006	87	333121	50.0	48.0	
49 Tetrahydrofuran	42	4.450	4.450	0.000	92	722301	100.0	98.2	
50 Chloroform	83	4.517	4.517	0.000	96	1142017	50.0	47.4	
51 1,1,1-Trichloroethane	97	4.620	4.620	0.000	96	1008617	50.0	50.1	
52 Cyclohexane	56	4.632	4.626	0.006	95	1414650	50.0	49.6	
53 Carbon tetrachloride	117	4.760	4.754	0.006	95	901177	50.0	49.7	
54 1,1-Dichloropropene	75	4.772	4.772	0.000	87	883005	50.0	49.4	
55 Benzene	78	4.973	4.973	0.000	94	2564347	50.0	49.3	
56 Isobutyl alcohol	43	5.009	5.009	0.000	92	1272817	1250.0	1259.5	
57 1,2-Dichloroethane	62	5.046	5.040	0.006	96	1237753	50.0	46.5	
59 n-Heptane	43	5.161	5.155	0.006	97	1404897	50.0	50.6	
60 Trichloroethene	95	5.581	5.581	0.000	94	645991	50.0	48.8	
62 Methylcyclohexane	83	5.697	5.697	0.000	96	1049046	50.0	49.9	
63 1,2-Dichloropropane	63	5.825	5.819	0.007	85	739105	50.0	49.9	
64 Dibromomethane	93	5.958	5.958	0.000	97	425412	50.0	49.5	
66 1,4-Dioxane	88	5.964	5.965	0.000	36	115405	1000.0	1161.3	M
67 Dichlorobromomethane	83	6.110	6.111	-0.001	96	892448	50.0	50.2	
69 2-Chloroethyl vinyl ether	63	6.390	6.396	-0.006	90	523157	50.0	50.0	
71 cis-1,3-Dichloropropene	75	6.524	6.524	0.000	86	1106289	50.0	52.7	
72 4-Methyl-2-pentanone (MIBK)	58	6.676	6.676	0.000	99	2100901	250.0	249.4	
73 Toluene	92	6.810	6.810	0.000	98	1639342	50.0	49.8	
75 trans-1,3-Dichloropropene	75	7.096	7.096	0.000	94	1045650	50.0	50.9	
77 Ethyl methacrylate	69	7.145	7.145	0.000	91	905766	50.0	51.9	
78 1,1,2-Trichloroethane	83	7.285	7.285	0.000	95	501774	50.0	49.5	
79 Tetrachloroethene	166	7.339	7.339	0.000	94	675164	50.0	49.4	
80 1,3-Dichloropropane	76	7.443	7.443	0.000	93	1040975	50.0	49.7	
82 2-Hexanone	43	7.516	7.516	0.000	98	4167268	250.0	245.8	
83 Chlorodibromomethane	129	7.674	7.674	0.000	89	649826	50.0	52.0	
84 Ethylene Dibromide	107	7.777	7.777	0.000	98	625548	50.0	49.5	
85 Chlorobenzene	112	8.252	8.252	0.000	91	1800801	50.0	50.5	
88 Ethylbenzene	91	8.349	8.349	0.000	98	3108410	50.0	50.8	
89 1,1,1,2-Tetrachloroethane	131	8.355	8.349	0.006	92	663689	50.0	48.9	
90 m-Xylene & p-Xylene	106	8.471	8.471	0.000	98	1203940	50.0	50.1	
91 o-Xylene	106	8.897	8.897	0.000	97	1167412	50.0	50.0	
92 Styrene	104	8.927	8.927	0.000	94	2067009	50.0	53.7	
93 Bromoform	173	9.171	9.171	-0.001	95	445765	50.0	56.3	
95 Isopropylbenzene	105	9.280	9.280	0.000	96	3234366	50.0	50.9	
97 Bromobenzene	156	9.627	9.627	0.000	94	730688	50.0	47.7	
98 1,1,2,2-Tetrachloroethane	83	9.694	9.700	-0.006	94	824161	50.0	49.5	
100 N-Propylbenzene	91	9.718	9.718	0.000	99	3665062	50.0	51.2	
99 1,2,3-Trichloropropane	110	9.730	9.724	0.006	92	260083	50.0	47.7	
101 trans-1,4-Dichloro-2-butene	53	9.742	9.742	0.000	82	398168	50.0	53.4	
102 2-Chlorotoluene	126	9.821	9.822	-0.001	95	693167	50.0	49.8	
104 1,3,5-Trimethylbenzene	105	9.901	9.901	0.000	93	2669566	50.0	51.2	
105 4-Chlorotoluene	91	9.937	9.937	0.000	99	2522366	50.0	53.4	
106 tert-Butylbenzene	134	10.223	10.223	0.000	95	550576	50.0	50.8	
108 1,2,4-Trimethylbenzene	105	10.278	10.278	0.000	98	2732892	50.0	51.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.436	10.436	0.000	95	3377020	50.0	51.6	
110 1,3-Dichlorobenzene	146	10.570	10.570	0.000	96	1423096	50.0	49.7	
111 4-Isopropyltoluene	119	10.576	10.576	0.000	97	2910063	50.0	52.3	
113 1,4-Dichlorobenzene	146	10.655	10.661	-0.006	92	1455723	50.0	49.6	
115 n-Butylbenzene	91	10.965	10.965	0.000	98	2533481	50.0	51.1	
116 1,2-Dichlorobenzene	146	11.014	11.014	0.000	96	1368186	50.0	48.5	
117 1,2-Dibromo-3-Chloropropane	75	11.750	11.750	0.000	76	172935	50.0	49.8	
119 1,2,4-Trichlorobenzene	180	12.425	12.425	0.000	94	928195	50.0	50.0	
120 Hexachlorobutadiene	225	12.541	12.541	0.000	97	451397	50.0	50.2	
121 Naphthalene	128	12.638	12.638	0.000	97	2682127	50.0	52.3	
122 1,2,3-Trichlorobenzene	180	12.845	12.845	0.000	95	904316	50.0	51.0	
S 124 1,2-Dichloroethene, Total	1				0			98.7	
S 126 Xylenes, Total	1				0			100.1	
S 123 1,3-Dichloropropene, Total	1				0			103.7	
S 125 Total BTEX	1				0			249.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00225	Amount Added:	25.00	Units: uL	
GAS CORP mix_00512	Amount Added:	25.00	Units: uL	
N_8260_Surr_00440	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00232	Amount Added:	1.00	Units: uL	Run Reagent

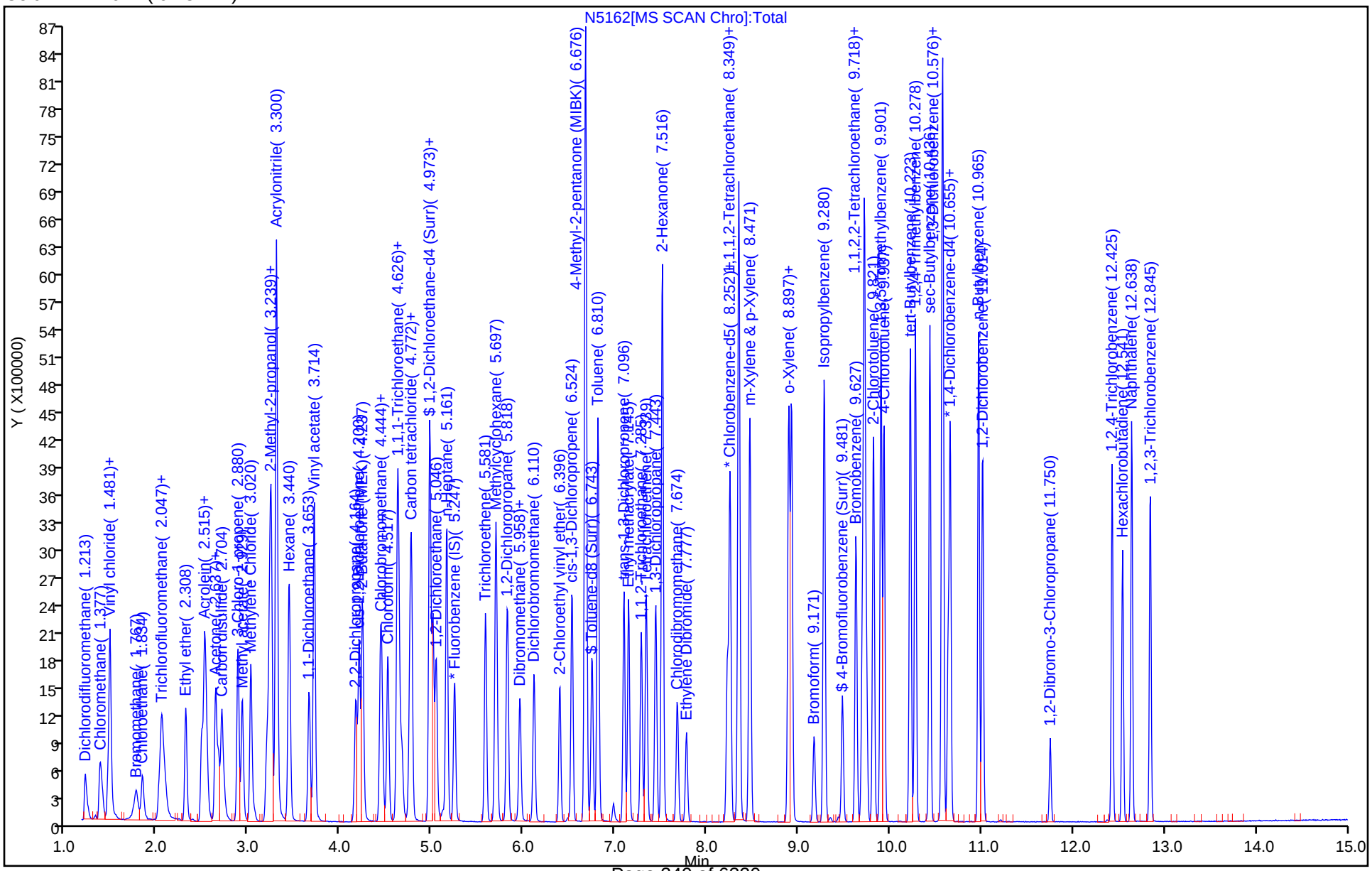
Report Date: 07-Jun-2022 10:08:35 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5162.D

Injection Date:	06-Jun-2022 20:10:30	Instrument ID:	HP5973N	Operator ID:	LH
Lims ID:	IC 6			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

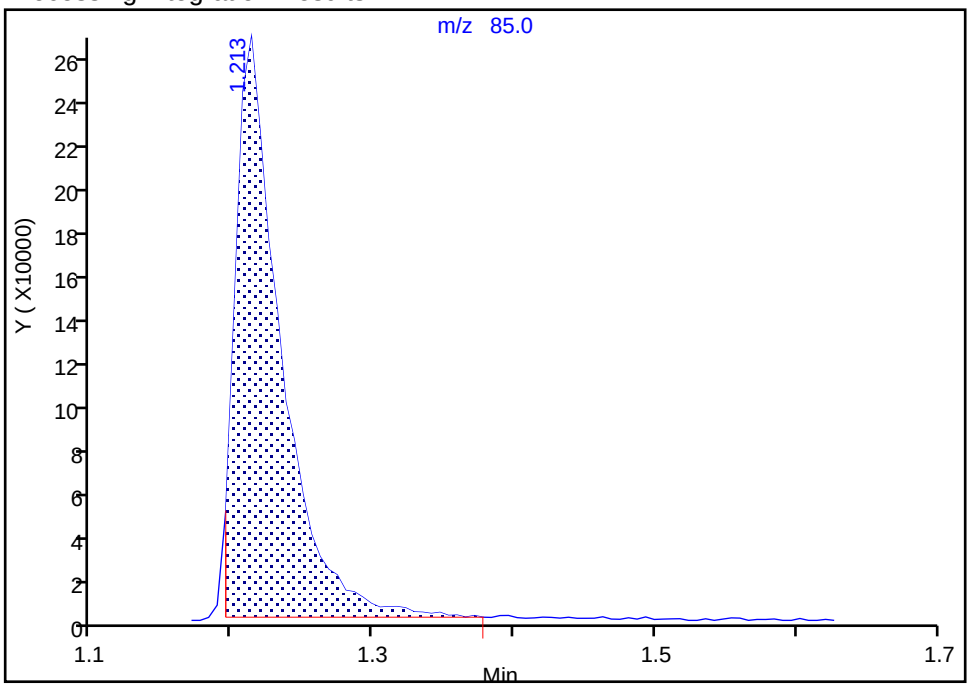
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5162.D
Injection Date: 06-Jun-2022 20:10:30 Instrument ID: HP5973N
Lims ID: IC 6
Client ID:
Operator ID: LH ALS Bottle#: 35 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

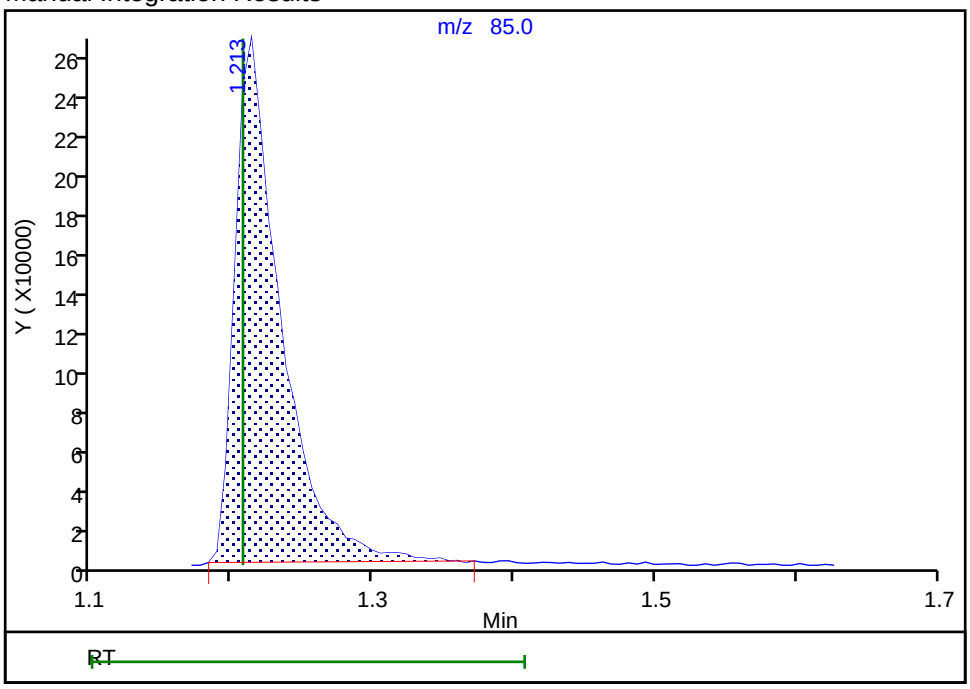
Processing Integration Results

RT: 1.21
Area: 606065
Amount: 48.466555
Amount Units: ug/L



Manual Integration Results

RT: 1.21
Area: 604306
Amount: 48.215937
Amount Units: ug/L



Reviewer: HillL, 07-Jun-2022 09:38:32
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

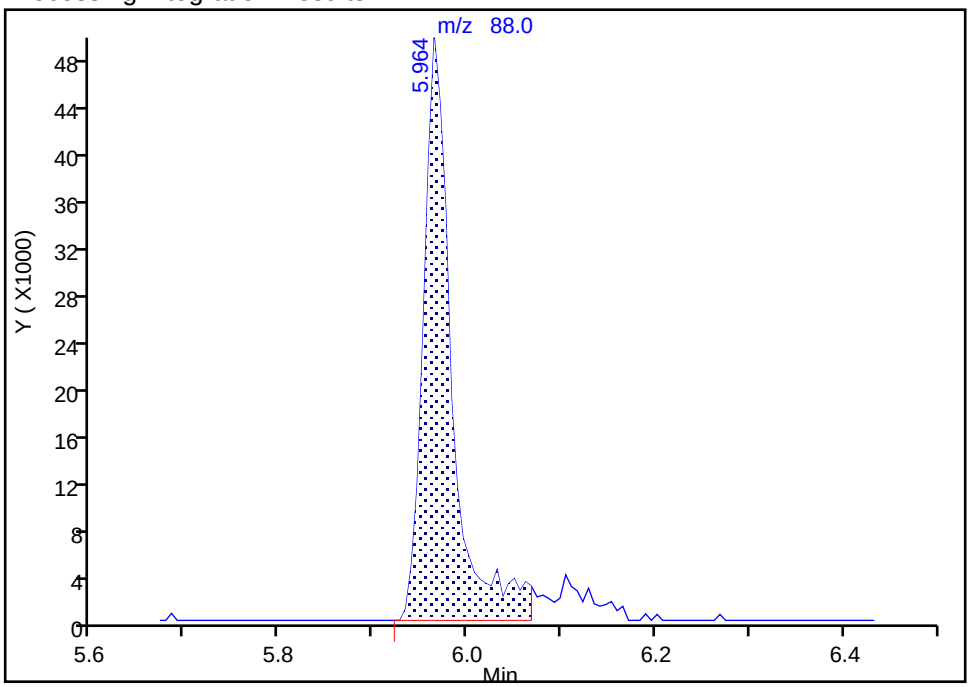
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5162.D
Injection Date: 06-Jun-2022 20:10:30 Instrument ID: HP5973N
Lims ID: IC 6
Client ID:
Operator ID: LH ALS Bottle#: 35 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

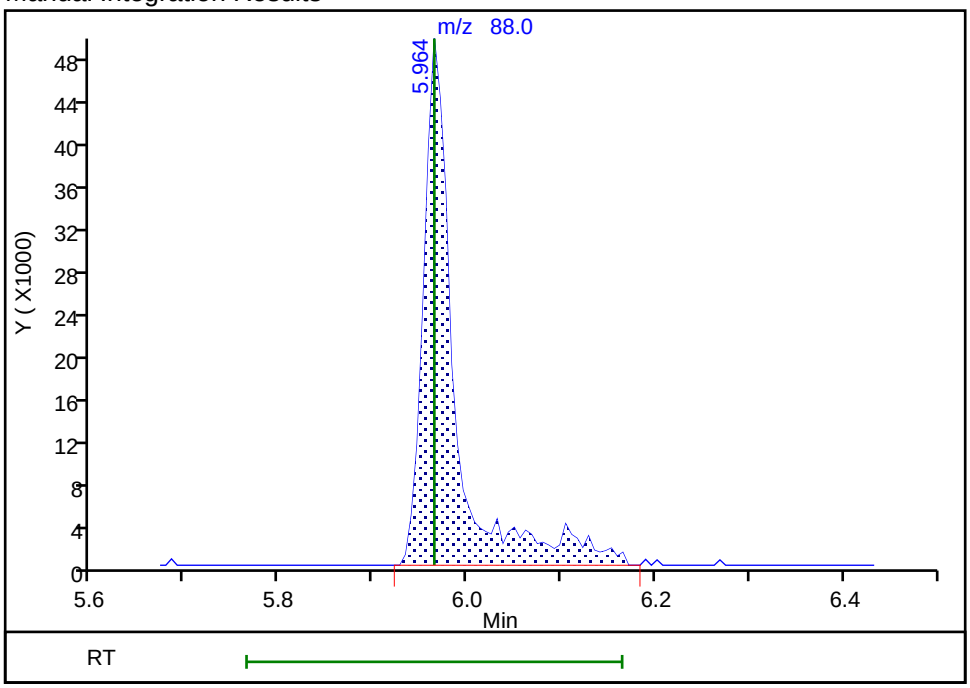
Processing Integration Results

RT: 5.96
Area: 104269
Amount: 1076.4378
Amount Units: ug/L



Manual Integration Results

RT: 5.96
Area: 115405
Amount: 1161.2776
Amount Units: ug/L



Reviewer: HillL, 07-Jun-2022 09:38:57
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5163.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 06-Jun-2022 20:33:30 ALS Bottle#: 36 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0105916-016
Operator ID: LH Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jun-2022 10:08:37 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: HillL Date: 07-Jun-2022 09:40:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.247	5.241	0.006	97	245995	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.221	8.222	-0.001	90	819839	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.637	10.637	0.000	95	421040	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.669	4.669	0.000	93	284524	25.0	24.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.973	4.973	0.000	87	406939	25.0	23.5	
$ 6 Toluene-d8 (Surr)	98	6.743	6.743	0.000	95	1032263	25.0	25.0	
$ 7 4-Bromofluorobenzene (Surr)	174	9.481	9.481	0.000	88	337527	25.0	25.1	
11 Dichlorodifluoromethane	85	1.213	1.207	0.006	98	1193743	100.0	90.1	M
13 Chloromethane	50	1.377	1.371	0.006	99	1918897	100.0	86.3	
14 Vinyl chloride	62	1.463	1.457	0.006	98	1392226	100.0	103.2	
144 Butadiene	54	1.481	1.475	0.006	92	1657944	100.0	91.7	
15 Bromomethane	94	1.767	1.761	0.006	93	769980	100.0	89.2	
16 Chloroethane	64	1.834	1.828	0.006	96	848778	100.0	88.4	
17 Dichlorofluoromethane	67	2.047	2.047	0.000	97	1945938	100.0	89.4	
18 Trichlorofluoromethane	101	2.053	2.047	0.006	95	1810143	100.0	94.9	
19 Ethyl ether	59	2.308	2.308	0.000	99	1426944	100.0	91.8	
20 Acrolein	56	2.479	2.479	0.000	99	1530506	500.0	472.6	
22 1,1-Dichloroethene	96	2.515	2.509	0.006	89	962050	100.0	92.2	
21 112TCTFE	101	2.527	2.521	0.006	94	989444	100.0	89.2	
23 Acetone	43	2.637	2.631	0.006	97	3659148	500.0	440.0	
24 Iodomethane	142	2.667	2.667	0.000	99	1744434	100.0	95.3	
25 Carbon disulfide	76	2.704	2.704	0.000	99	3385122	100.0	96.8	
27 3-Chloro-1-propene	41	2.880	2.874	0.006	85	2532019	100.0	92.5	
28 Methyl acetate	43	2.923	2.923	0.000	100	3455299	200.0	180.0	
30 Methylene Chloride	84	3.020	3.020	0.000	92	1211796	100.0	97.9	
31 2-Methyl-2-propanol	59	3.196	3.196	0.000	98	2108928	1000.0	885.9	
32 Methyl tert-butyl ether	73	3.227	3.227	0.000	99	4254629	100.0	95.8	
33 trans-1,2-Dichloroethene	96	3.245	3.245	0.000	89	1168676	100.0	95.2	
34 Acrylonitrile	53	3.300	3.300	0.000	97	9135988	1000.0	961.2	
35 Hexane	57	3.440	3.434	0.006	95	2389259	100.0	95.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.653	3.653	0.000	97	2692683	100.0	92.5	
39 Vinyl acetate	43	3.714	3.708	0.006	97	10030202	200.0	200.7	
42 2,2-Dichloropropane	77	4.170	4.164	0.006	89	1514804	100.0	87.7	
43 cis-1,2-Dichloroethene	96	4.206	4.200	0.006	86	1315165	100.0	93.9	
44 2-Butanone (MEK)	43	4.237	4.237	0.000	97	5768174	500.0	464.7	
47 Chlorobromomethane	128	4.437	4.431	0.006	87	667318	100.0	90.9	
49 Tetrahydrofuran	42	4.450	4.450	0.000	92	1418506	200.0	182.4	
50 Chloroform	83	4.517	4.517	0.000	96	2318630	100.0	91.0	
51 1,1,1-Trichloroethane	97	4.620	4.620	0.000	96	2065129	100.0	97.1	
52 Cyclohexane	56	4.626	4.626	0.000	94	2989683	100.0	99.2	
53 Carbon tetrachloride	117	4.760	4.754	0.006	95	1818003	100.0	94.9	
54 1,1-Dichloropropene	75	4.772	4.772	0.000	89	1771493	100.0	93.8	
55 Benzene	78	4.973	4.973	0.000	97	5234210	100.0	95.2	
56 Isobutyl alcohol	43	5.009	5.009	0.000	92	2467369	2500.0	2310.2	
57 1,2-Dichloroethane	62	5.046	5.040	0.006	96	2528025	100.0	89.8	
59 n-Heptane	43	5.161	5.155	0.006	97	2778614	100.0	94.6	
60 Trichloroethene	95	5.581	5.581	0.000	93	1301956	100.0	93.0	
62 Methylcyclohexane	83	5.697	5.697	0.000	96	2124581	100.0	95.7	
63 1,2-Dichloropropane	63	5.818	5.819	0.000	87	1516069	100.0	96.9	
64 Dibromomethane	93	5.958	5.958	0.000	96	876331	100.0	96.4	
66 1,4-Dioxane	88	5.964	5.965	0.000	93	202767	2000.0	2033.2	M
67 Dichlorobromomethane	83	6.110	6.111	-0.001	96	1844092	100.0	98.2	
69 2-Chloroethyl vinyl ether	63	6.390	6.396	-0.006	90	1089591	100.0	98.5	
71 cis-1,3-Dichloropropene	75	6.524	6.524	0.000	86	2240340	100.0	101.1	
72 4-Methyl-2-pentanone (MIBK)	58	6.676	6.676	0.000	99	4199607	500.0	496.9	
73 Toluene	92	6.810	6.810	0.000	96	3293689	100.0	99.6	
75 trans-1,3-Dichloropropene	75	7.096	7.096	0.000	96	2203087	100.0	107.0	
77 Ethyl methacrylate	69	7.145	7.145	0.000	91	1835061	100.0	104.8	
78 1,1,2-Trichloroethane	83	7.285	7.285	0.000	94	983202	100.0	96.6	
79 Tetrachloroethene	166	7.339	7.339	0.000	94	1352157	100.0	98.5	
80 1,3-Dichloropropane	76	7.443	7.443	0.000	92	2078963	100.0	98.9	
82 2-Hexanone	43	7.516	7.516	0.000	99	8171766	500.0	480.3	
83 Chlorodibromomethane	129	7.680	7.674	0.006	89	1363507	100.0	108.7	
84 Ethylene Dibromide	107	7.777	7.777	0.000	98	1265062	100.0	99.7	
85 Chlorobenzene	112	8.252	8.252	0.000	90	3607199	100.0	100.8	
88 Ethylbenzene	91	8.349	8.349	0.000	99	6241810	100.0	101.7	
89 1,1,1,2-Tetrachloroethane	131	8.355	8.349	0.006	93	1386090	100.0	101.9	
90 m-Xylene & p-Xylene	106	8.471	8.471	0.000	98	2423574	100.0	100.4	
91 o-Xylene	106	8.897	8.897	0.000	98	2379974	100.0	101.5	
92 Styrene	104	8.927	8.927	0.000	94	4159455	100.0	107.8	
93 Bromoform	173	9.170	9.171	-0.001	95	911208	100.0	114.7	
95 Isopropylbenzene	105	9.280	9.280	0.000	97	6524815	100.0	103.6	
97 Bromobenzene	156	9.633	9.627	0.006	94	1461586	100.0	96.2	
98 1,1,2,2-Tetrachloroethane	83	9.700	9.700	0.000	96	1645595	100.0	99.5	
100 N-Propylbenzene	91	9.718	9.718	0.000	100	7394161	100.0	104.0	
99 1,2,3-Trichloropropane	110	9.730	9.724	0.006	92	525120	100.0	97.0	
101 trans-1,4-Dichloro-2-butene	53	9.742	9.742	0.000	88	788532	100.0	106.6	
102 2-Chlorotoluene	126	9.821	9.822	-0.001	94	1353664	100.0	98.0	
104 1,3,5-Trimethylbenzene	105	9.901	9.901	0.000	93	5420238	100.0	104.9	
105 4-Chlorotoluene	91	9.937	9.937	0.000	99	4702765	100.0	100.4	
106 tert-Butylbenzene	134	10.223	10.223	0.000	95	1089703	100.0	101.3	
108 1,2,4-Trimethylbenzene	105	10.278	10.278	0.000	98	5478921	100.0	104.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.436	10.436	0.000	95	6786333	100.0	104.4	
110 1,3-Dichlorobenzene	146	10.570	10.570	0.000	96	2780273	100.0	97.8	
111 4-Isopropyltoluene	119	10.582	10.576	0.006	98	5797978	100.0	105.1	
113 1,4-Dichlorobenzene	146	10.661	10.661	0.000	93	2846902	100.0	97.7	
115 n-Butylbenzene	91	10.971	10.965	0.006	98	4985092	100.0	101.4	
116 1,2-Dichlorobenzene	146	11.014	11.014	0.000	95	2699776	100.0	96.5	
117 1,2-Dibromo-3-Chloropropane	75	11.750	11.750	0.000	77	353365	100.0	102.5	
119 1,2,4-Trichlorobenzene	180	12.425	12.425	0.000	94	1776575	100.0	96.4	
120 Hexachlorobutadiene	225	12.541	12.541	0.000	97	873162	100.0	97.8	
121 Naphthalene	128	12.638	12.638	0.000	97	5277288	100.0	103.6	
122 1,2,3-Trichlorobenzene	180	12.845	12.845	0.000	94	1695971	100.0	96.4	
S 124 1,2-Dichloroethene, Total	1				0			189.1	
S 126 Xylenes, Total	1				0			202.0	
S 123 1,3-Dichloropropene, Total	1				0			208.0	
S 125 Total BTEX	1				0			498.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00225	Amount Added:	50.00	Units: uL	
GAS CORP mix_00512	Amount Added:	50.00	Units: uL	
N_8260_Surr_00440	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00232	Amount Added:	1.00	Units: uL	Run Reagent

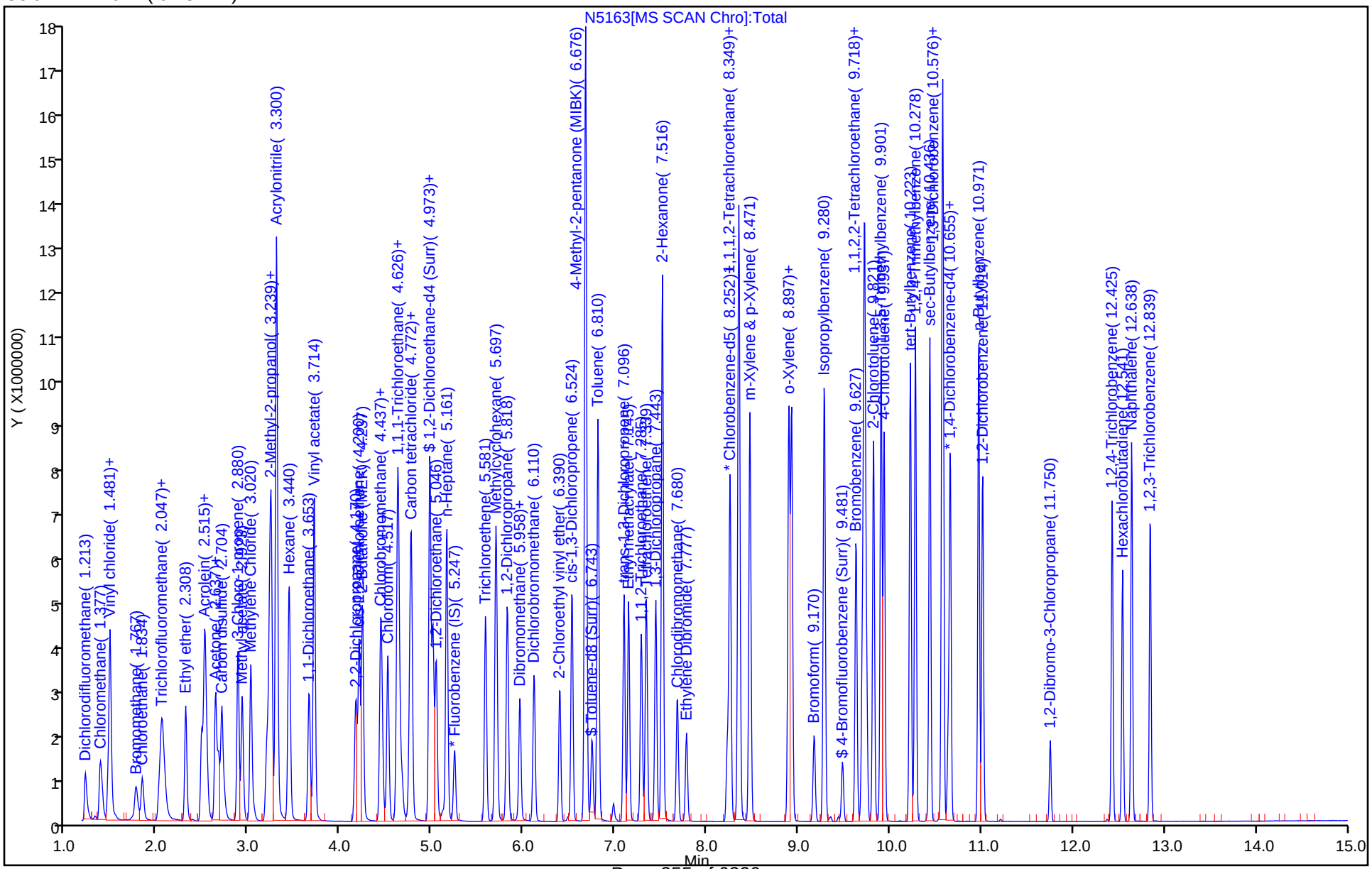
Report Date: 07-Jun-2022 10:08:38 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5163.D

Injection Date:	06-Jun-2022 20:33:30	Instrument ID:	HP5973N	Operator ID:	LH
Lims ID:	IC 7			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

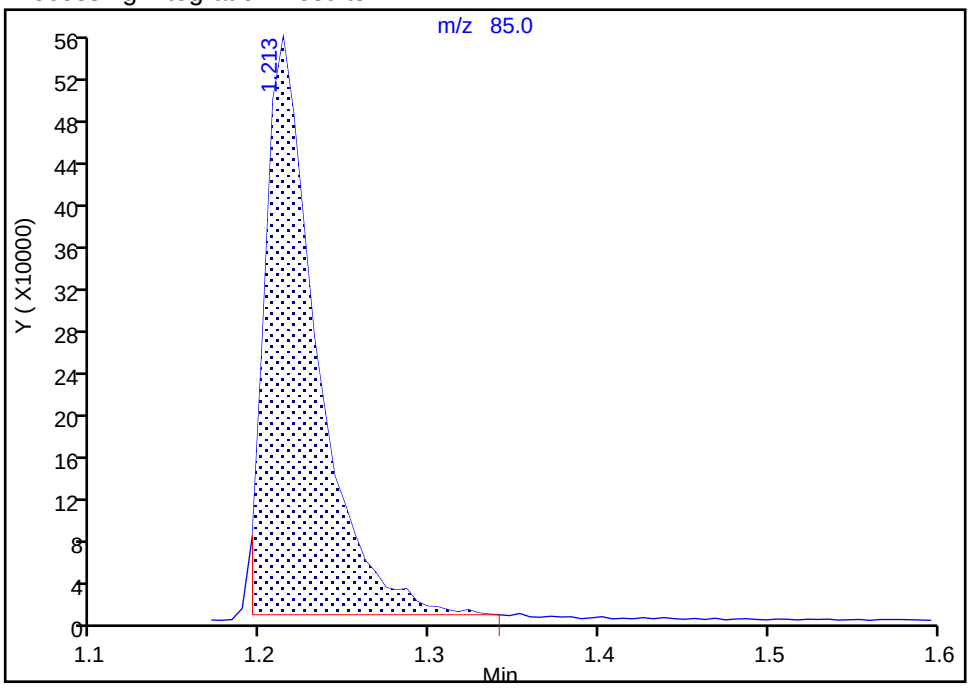
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5163.D
Injection Date: 06-Jun-2022 20:33:30 Instrument ID: HP5973N
Lims ID: IC 7
Client ID:
Operator ID: LH ALS Bottle#: 36 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

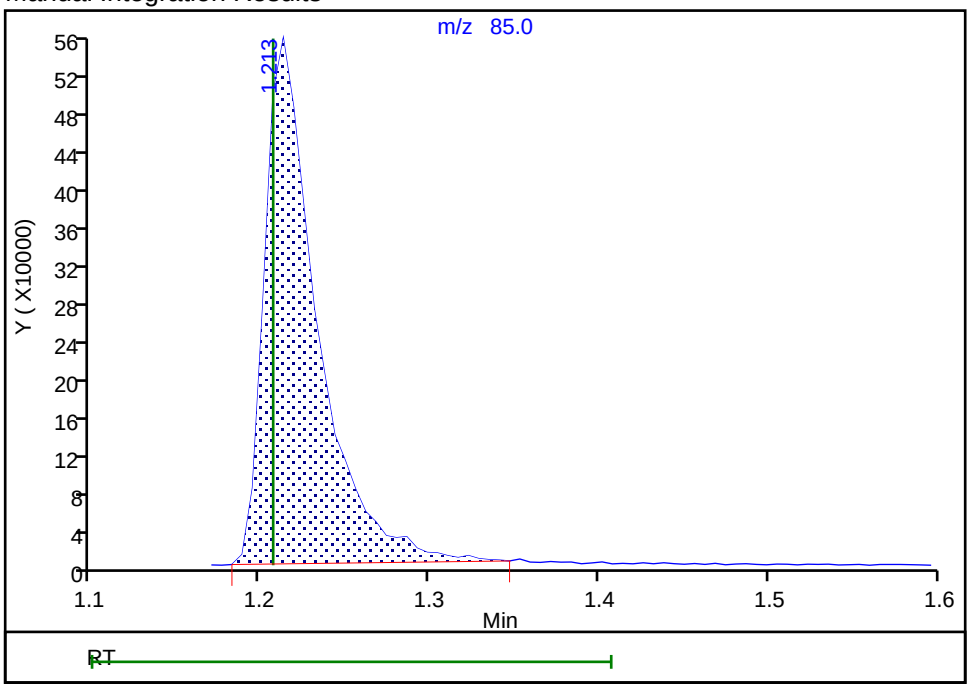
Processing Integration Results

RT: 1.21
Area: 1165915
Amount: 88.252021
Amount Units: ug/L



Manual Integration Results

RT: 1.21
Area: 1193743
Amount: 90.121127
Amount Units: ug/L



Reviewer: HillL, 07-Jun-2022 09:39:28
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

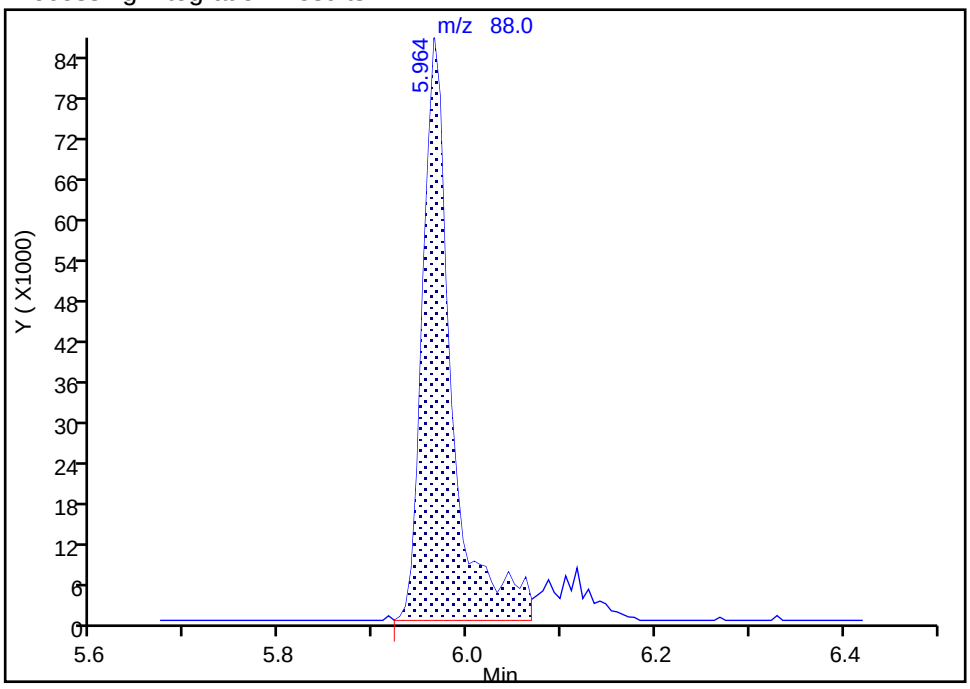
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5163.D
Injection Date: 06-Jun-2022 20:33:30 Instrument ID: HP5973N
Lims ID: IC 7
Client ID:
Operator ID: LH ALS Bottle#: 36 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

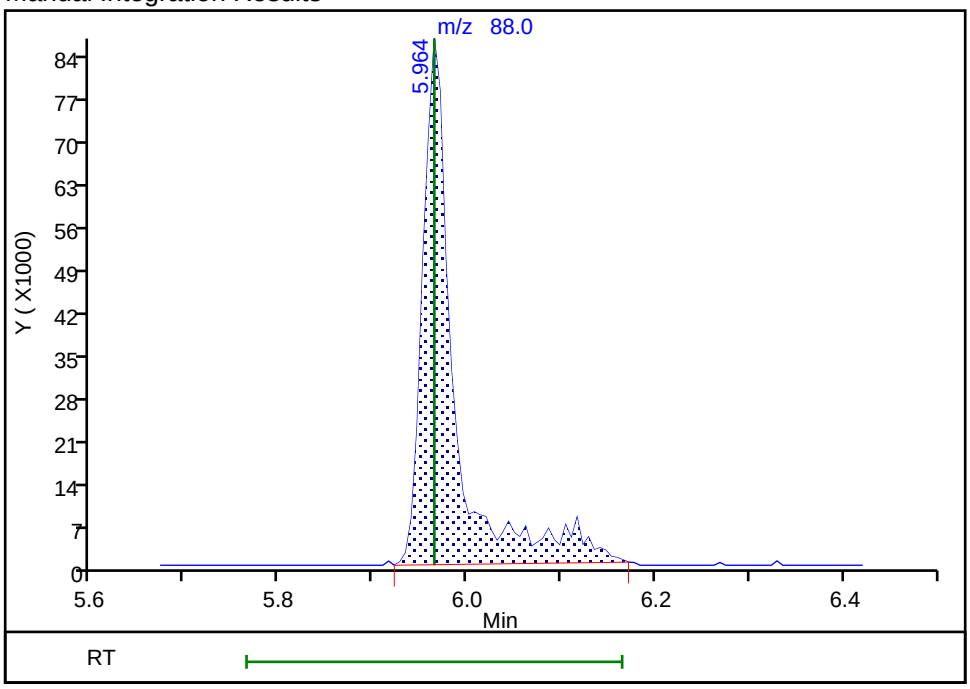
Processing Integration Results

RT: 5.96
Area: 184772
Amount: 1873.9189
Amount Units: ug/L



Manual Integration Results

RT: 5.96
Area: 202767
Amount: 2033.2287
Amount Units: ug/L



Reviewer: HillL, 07-Jun-2022 09:39:45
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

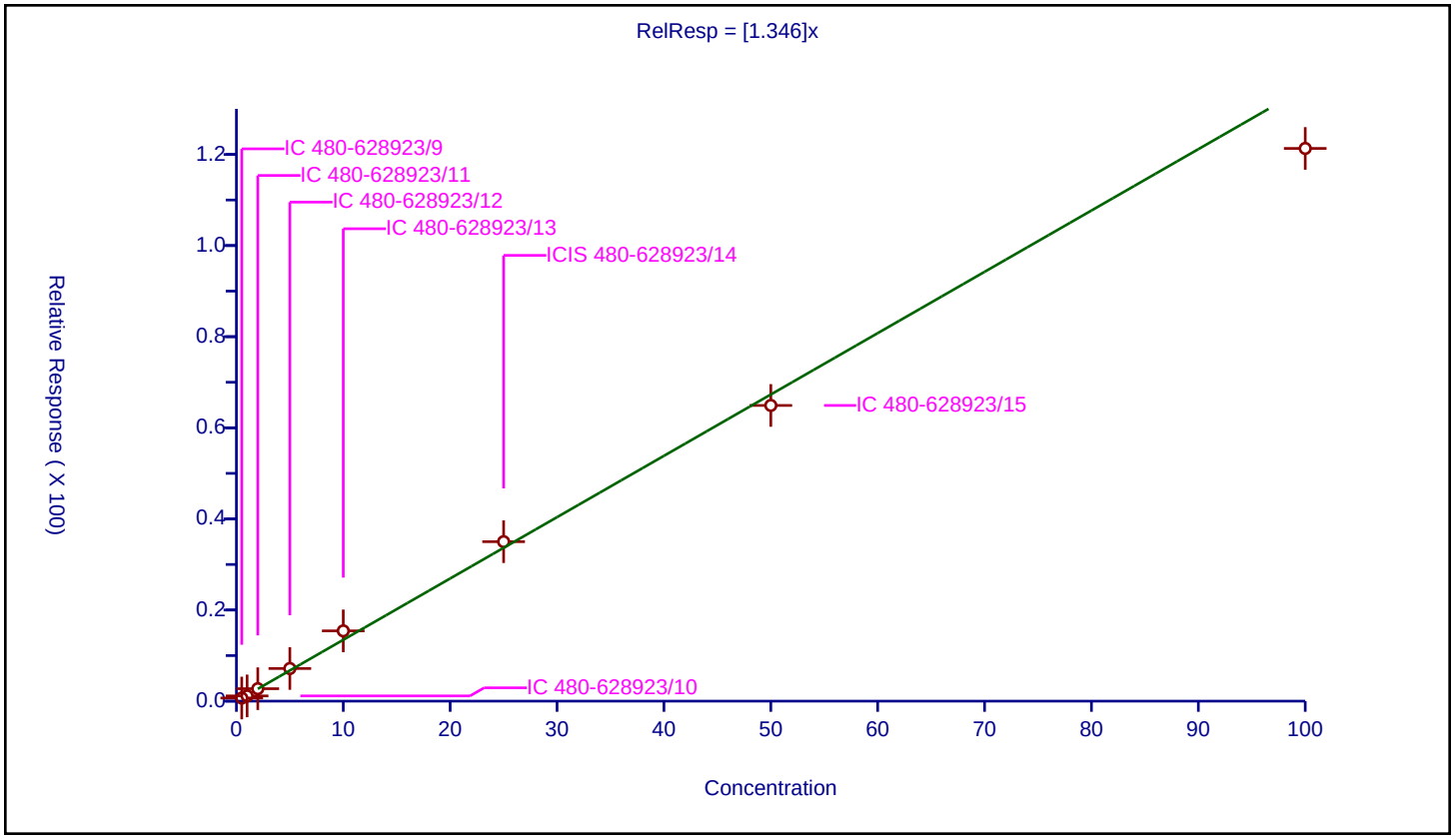
Curve Coefficients

Intercept:	0
Slope:	1.346

Error Coefficients

Standard Error:	522000
Relative Standard Error:	9.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.685185	25.0	233842.0	1.37037	Y
2	IC 480-628923/10	1.0	1.147155	25.0	216296.0	1.147155	Y
3	IC 480-628923/11	2.0	2.73039	25.0	228667.0	1.365195	Y
4	IC 480-628923/12	5.0	7.1625	25.0	219089.0	1.4325	Y
5	IC 480-628923/13	10.0	15.425681	25.0	220705.0	1.542568	Y
6	ICIS 480-628923/14	25.0	35.005369	25.0	223510.0	1.400215	Y
7	IC 480-628923/15	50.0	64.906556	25.0	232760.0	1.298131	Y
8	IC 480-628923/16	100.0	121.317811	25.0	245995.0	1.213178	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

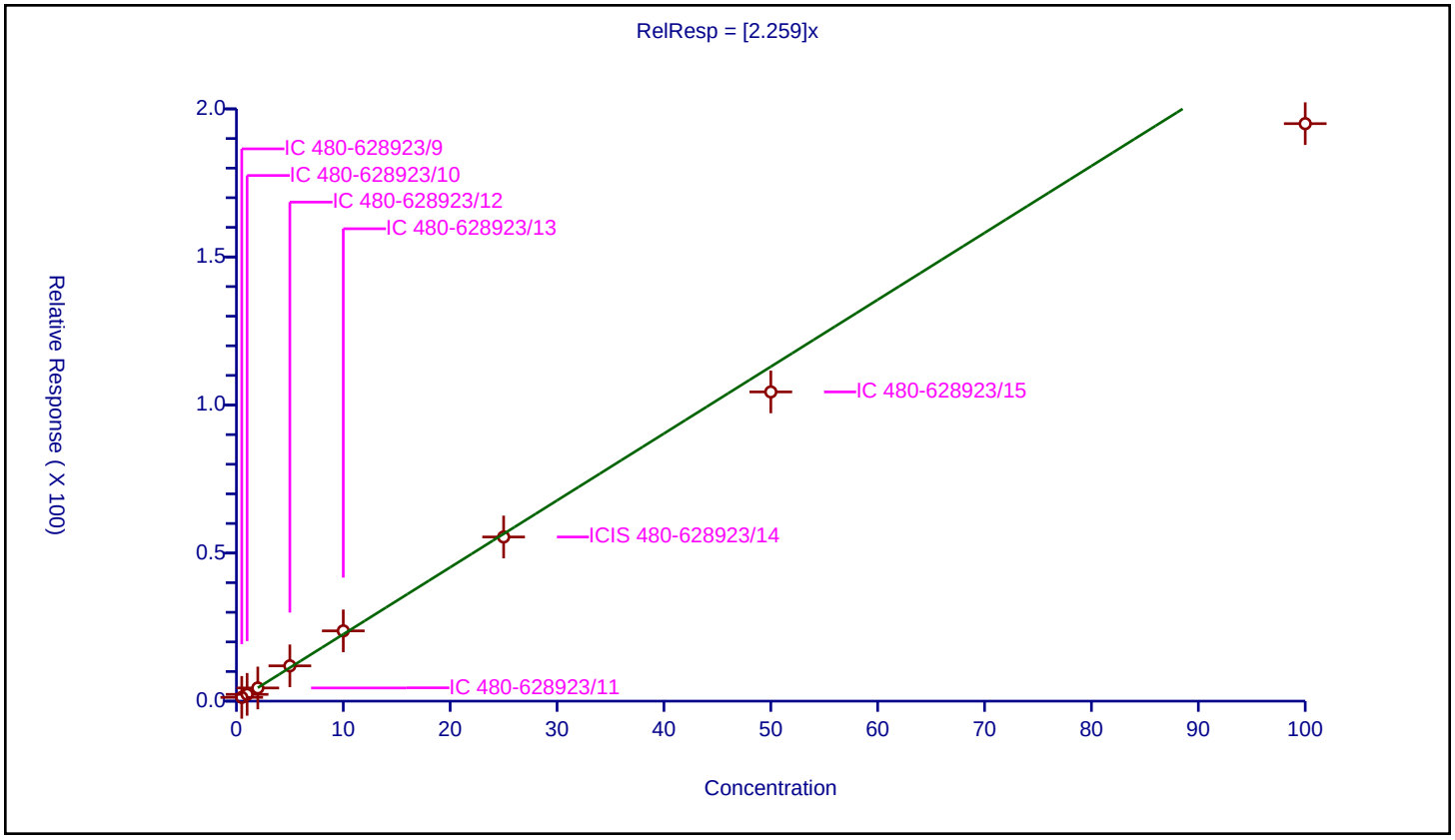
Curve Coefficients

Intercept:	0
Slope:	2.259

Error Coefficients

Standard Error:	839000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	1.274472	25.0	233842.0	2.548943	Y
2	IC 480-628923/10	1.0	2.287606	25.0	216296.0	2.287606	Y
3	IC 480-628923/11	2.0	4.44511	25.0	228667.0	2.222555	Y
4	IC 480-628923/12	5.0	11.921411	25.0	219089.0	2.384282	Y
5	IC 480-628923/13	10.0	23.729979	25.0	220705.0	2.372998	Y
6	ICIS 480-628923/14	25.0	55.431636	25.0	223510.0	2.217265	Y
7	IC 480-628923/15	50.0	104.431066	25.0	232760.0	2.088621	Y
8	IC 480-628923/16	100.0	195.013821	25.0	245995.0	1.950138	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

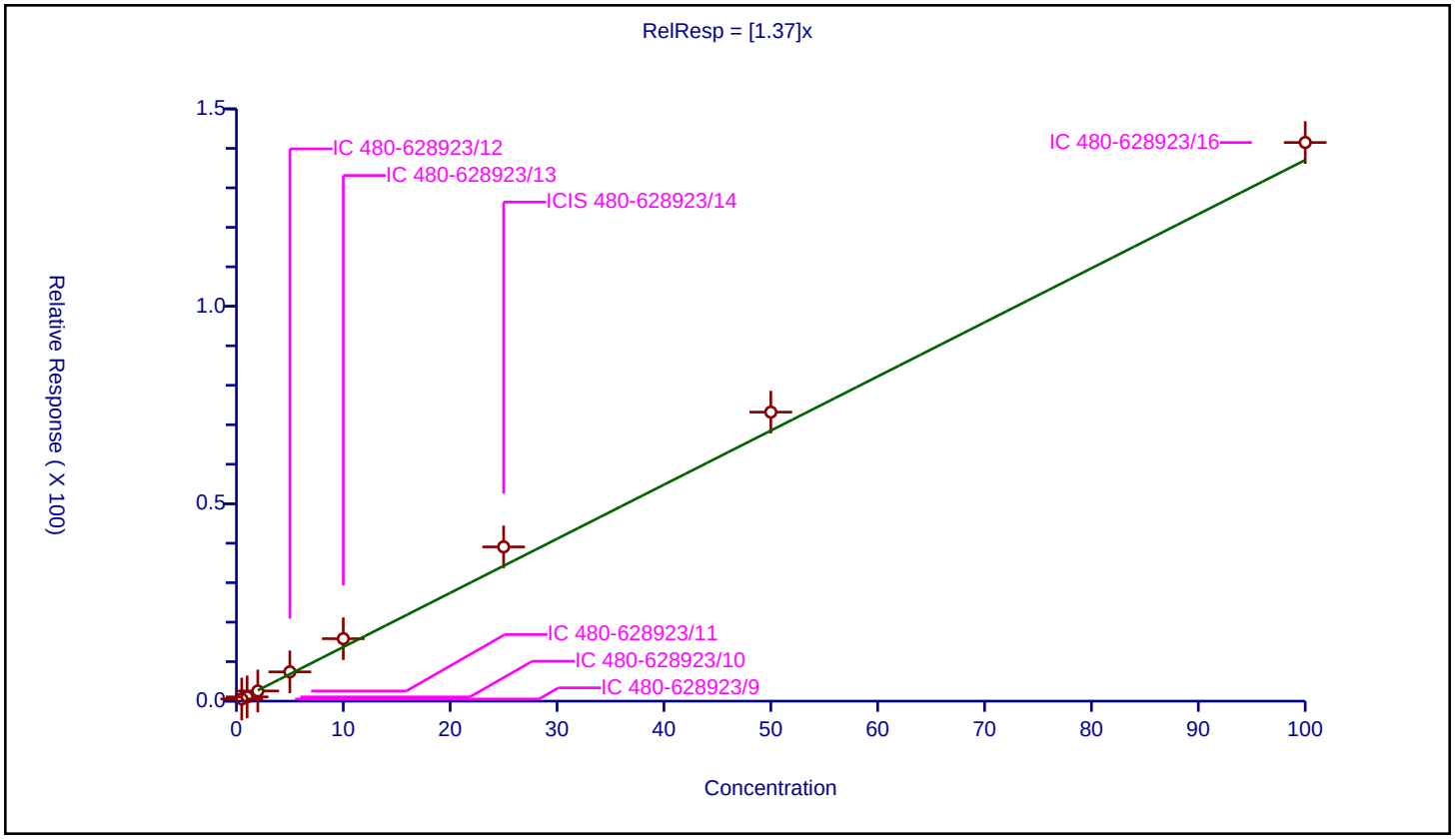
Curve Coefficients

Intercept:	0
Slope:	1.37

Error Coefficients

Standard Error:	603000
Relative Standard Error:	14.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.548554	25.0	233842.0	1.097108	Y
2	IC 480-628923/10	1.0	1.073298	25.0	216296.0	1.073298	Y
3	IC 480-628923/11	2.0	2.571425	25.0	228667.0	1.285712	Y
4	IC 480-628923/12	5.0	7.41993	25.0	219089.0	1.483986	Y
5	IC 480-628923/13	10.0	15.817834	25.0	220705.0	1.581783	Y
6	ICIS 480-628923/14	25.0	39.068498	25.0	223510.0	1.56274	Y
7	IC 480-628923/15	50.0	73.197822	25.0	232760.0	1.463956	Y
8	IC 480-628923/16	100.0	141.489258	25.0	245995.0	1.414893	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

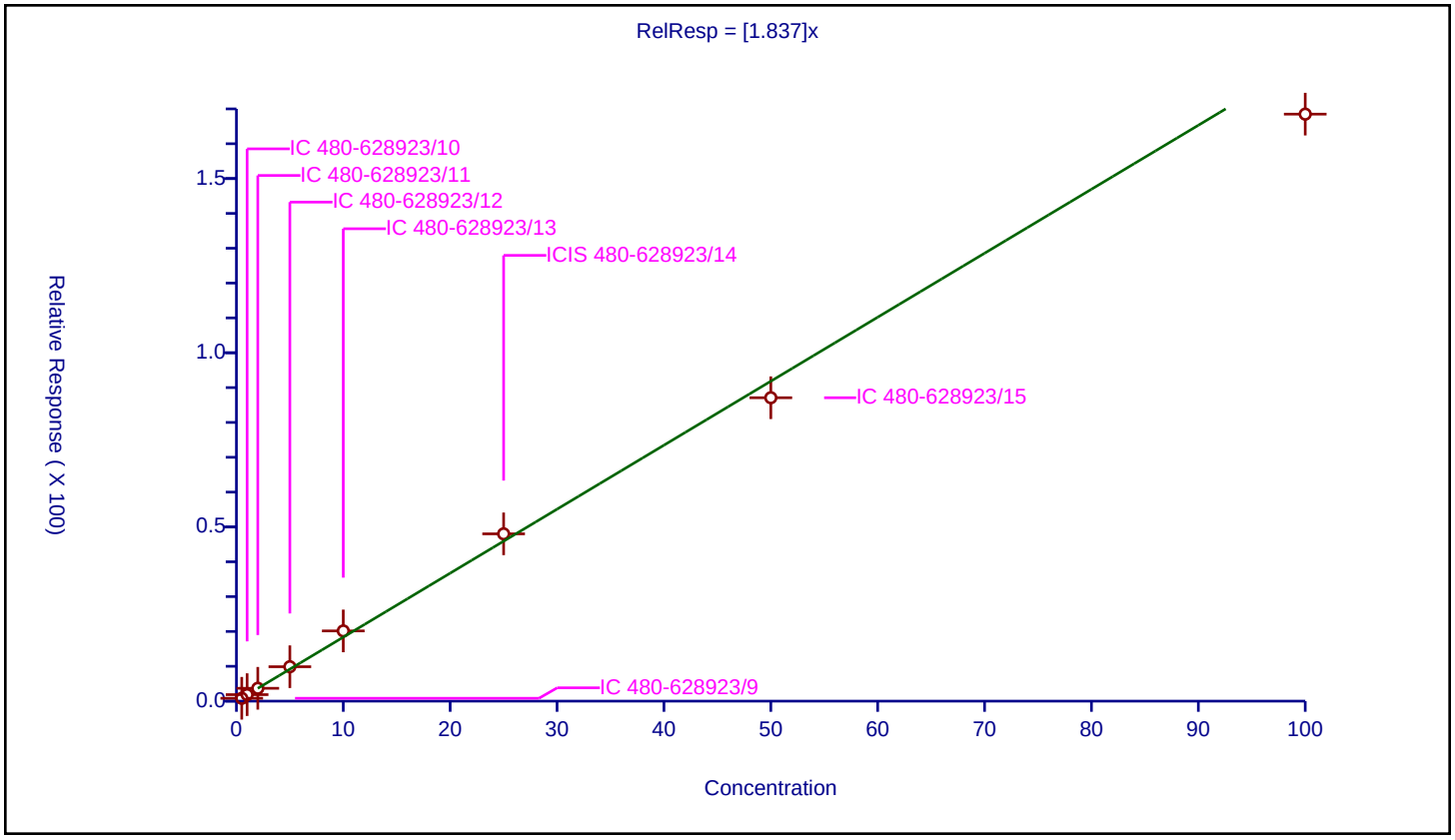
Curve Coefficients

Intercept:	0
Slope:	1.837

Error Coefficients

Standard Error:	720000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.819036	25.0	233842.0	1.638072	Y
2	IC 480-628923/10	1.0	1.872203	25.0	216296.0	1.872203	Y
3	IC 480-628923/11	2.0	3.687895	25.0	228667.0	1.843948	Y
4	IC 480-628923/12	5.0	9.879433	25.0	219089.0	1.975887	Y
5	IC 480-628923/13	10.0	20.154505	25.0	220705.0	2.01545	Y
6	ICIS 480-628923/14	25.0	48.02548	25.0	223510.0	1.921019	Y
7	IC 480-628923/15	50.0	87.089921	25.0	232760.0	1.741798	Y
8	IC 480-628923/16	100.0	168.493669	25.0	245995.0	1.684937	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

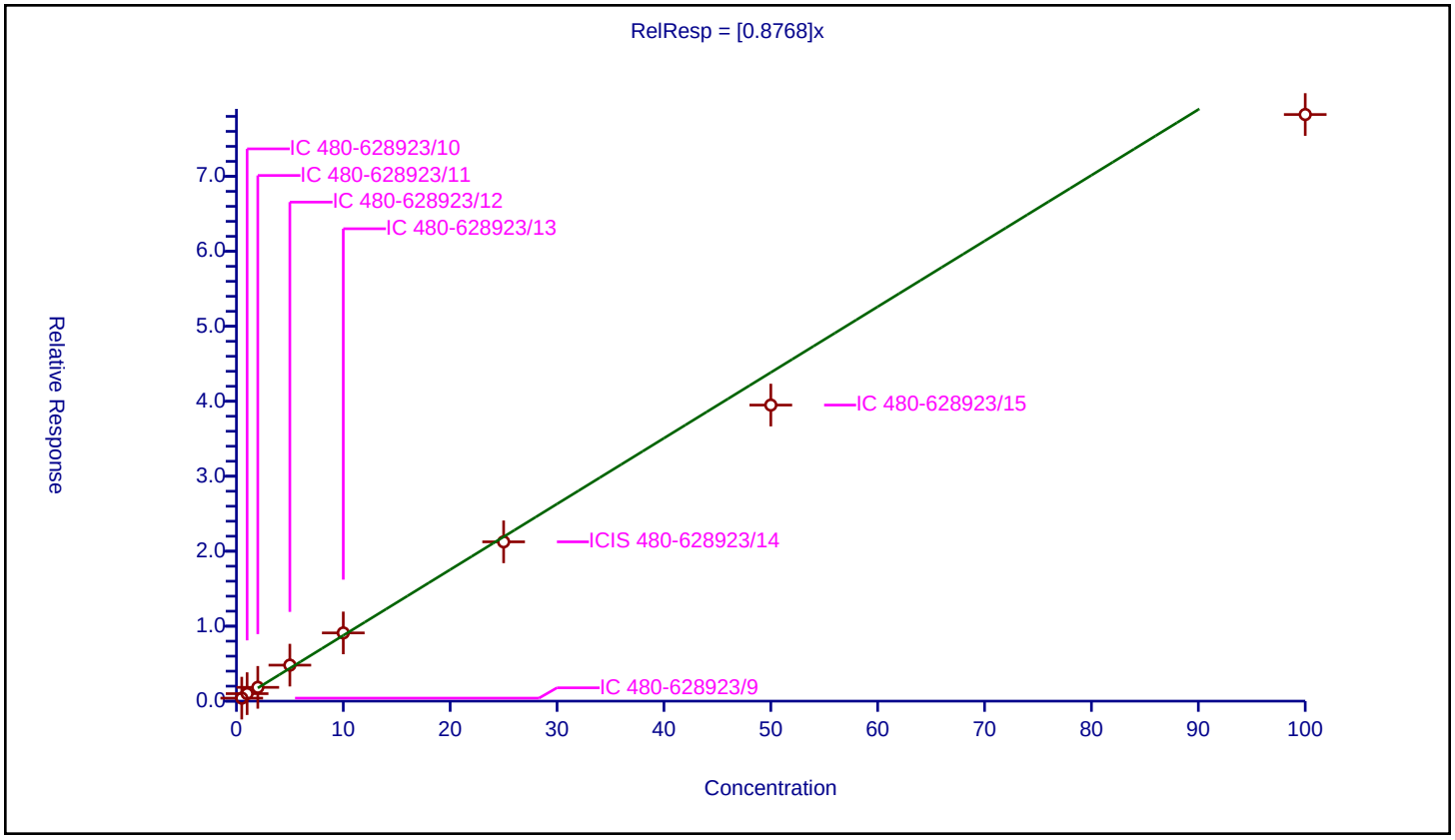
Curve Coefficients

Intercept:	0
Slope:	0.8768

Error Coefficients

Standard Error:	332000
Relative Standard Error:	9.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.401019	25.0	233842.0	0.802037	Y
2	IC 480-628923/10	1.0	1.000828	25.0	216296.0	1.000828	Y
3	IC 480-628923/11	2.0	1.837279	25.0	228667.0	0.918639	Y
4	IC 480-628923/12	5.0	4.803185	25.0	219089.0	0.960637	Y
5	IC 480-628923/13	10.0	9.101176	25.0	220705.0	0.910118	Y
6	ICIS 480-628923/14	25.0	21.248937	25.0	223510.0	0.849957	Y
7	IC 480-628923/15	50.0	39.492503	25.0	232760.0	0.78985	Y
8	IC 480-628923/16	100.0	78.25159	25.0	245995.0	0.782516	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

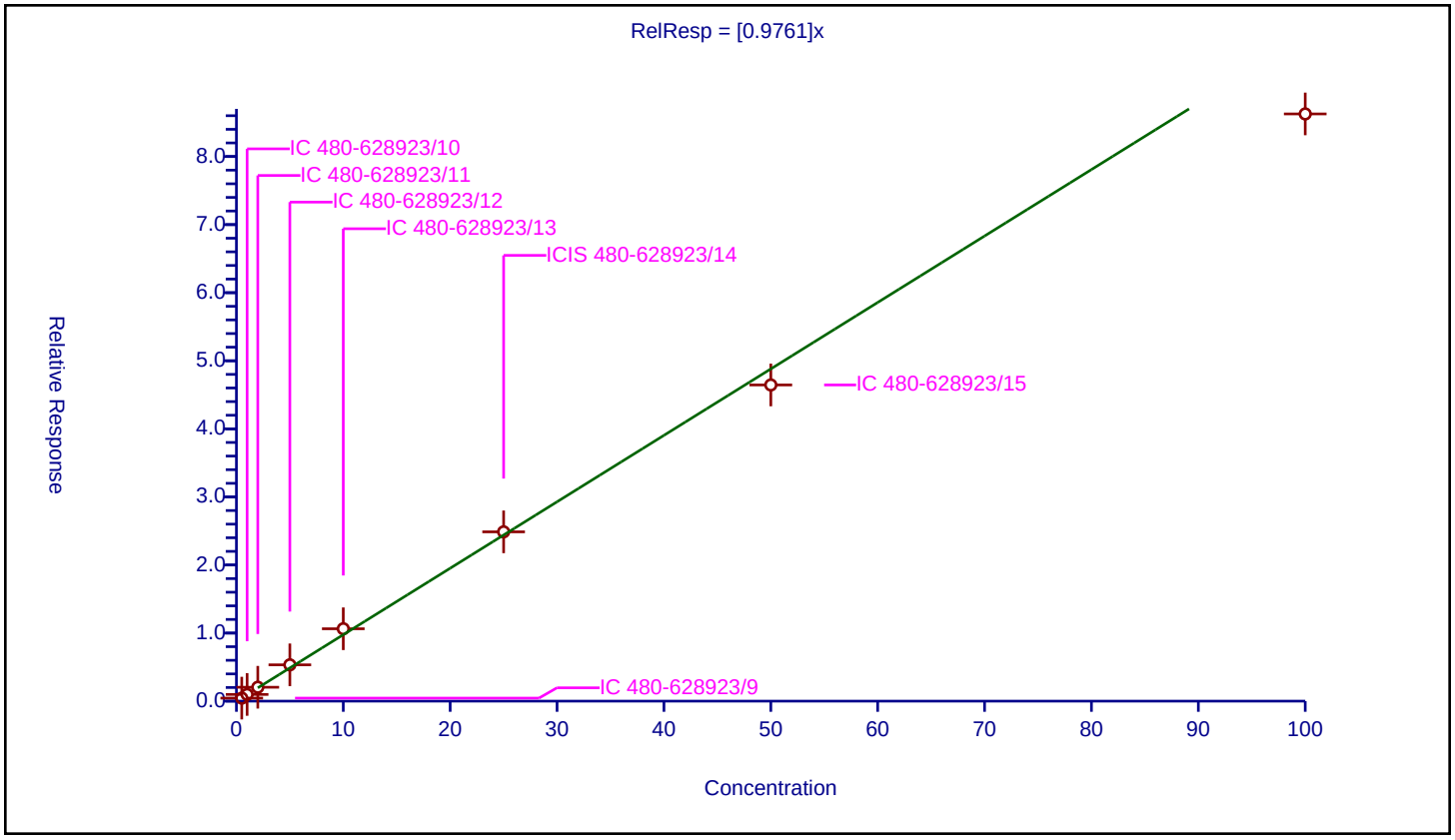
Curve Coefficients

Intercept:	0
Slope:	0.9761

Error Coefficients

Standard Error:	372000
Relative Standard Error:	7.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.442927	25.0	233842.0	0.885855	Y
2	IC 480-628923/10	1.0	0.985571	25.0	216296.0	0.985571	Y
3	IC 480-628923/11	2.0	2.041834	25.0	228667.0	1.020917	Y
4	IC 480-628923/12	5.0	5.33402	25.0	219089.0	1.066804	Y
5	IC 480-628923/13	10.0	10.630819	25.0	220705.0	1.063082	Y
6	ICIS 480-628923/14	25.0	24.871035	25.0	223510.0	0.994841	Y
7	IC 480-628923/15	50.0	46.448488	25.0	232760.0	0.92897	Y
8	IC 480-628923/16	100.0	86.25968	25.0	245995.0	0.862597	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

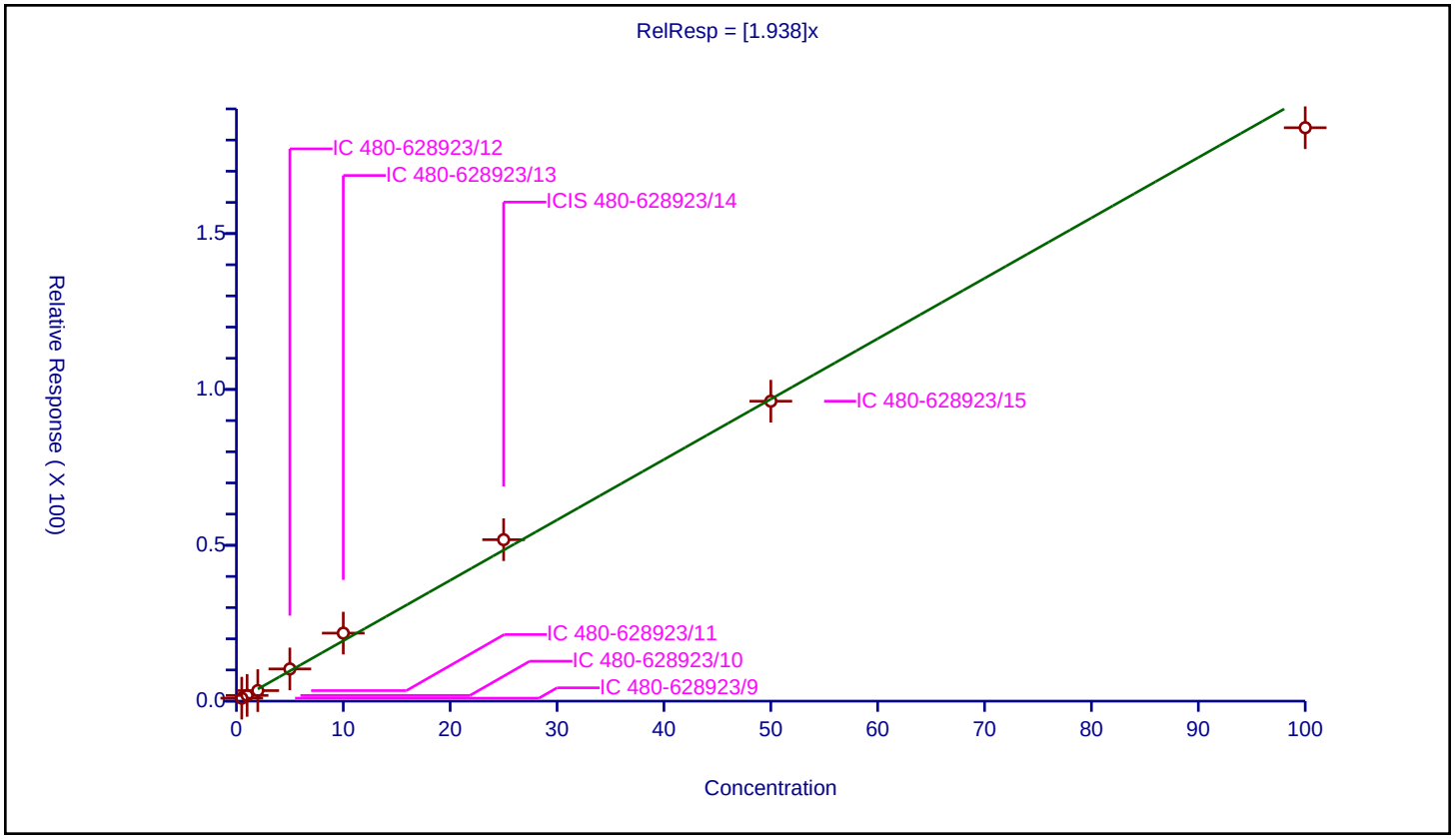
Curve Coefficients

Intercept:	0
Slope:	1.938

Error Coefficients

Standard Error:	787000
Relative Standard Error:	8.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.950535	25.0	233842.0	1.90107	Y
2	IC 480-628923/10	1.0	1.829553	25.0	216296.0	1.829553	Y
3	IC 480-628923/11	2.0	3.376526	25.0	228667.0	1.688263	Y
4	IC 480-628923/12	5.0	10.333358	25.0	219089.0	2.066672	Y
5	IC 480-628923/13	10.0	21.818491	25.0	220705.0	2.181849	Y
6	ICIS 480-628923/14	25.0	51.789182	25.0	223510.0	2.071567	Y
7	IC 480-628923/15	50.0	96.226478	25.0	232760.0	1.92453	Y
8	IC 480-628923/16	100.0	183.961361	25.0	245995.0	1.839614	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

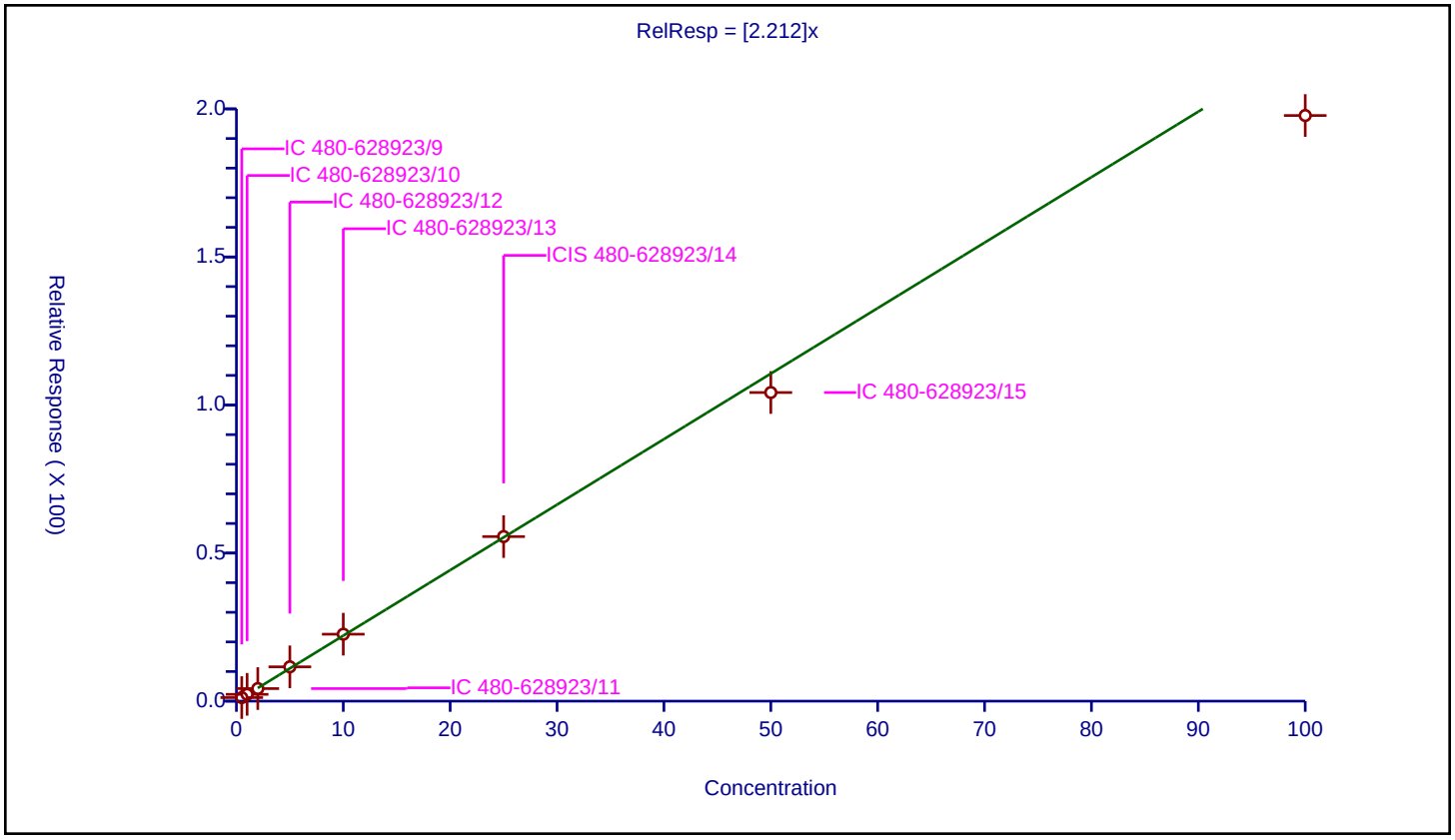
Curve Coefficients

Intercept:	0
Slope:	2.212

Error Coefficients

Standard Error:	847000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	1.20466	25.0	233842.0	2.409319	Y
2	IC 480-628923/10	1.0	2.300436	25.0	216296.0	2.300436	Y
3	IC 480-628923/11	2.0	4.243944	25.0	228667.0	2.121972	Y
4	IC 480-628923/12	5.0	11.590723	25.0	219089.0	2.318145	Y
5	IC 480-628923/13	10.0	22.604608	25.0	220705.0	2.260461	Y
6	ICIS 480-628923/14	25.0	55.568878	25.0	223510.0	2.222755	Y
7	IC 480-628923/15	50.0	104.220979	25.0	232760.0	2.08442	Y
8	IC 480-628923/16	100.0	197.761946	25.0	245995.0	1.977619	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

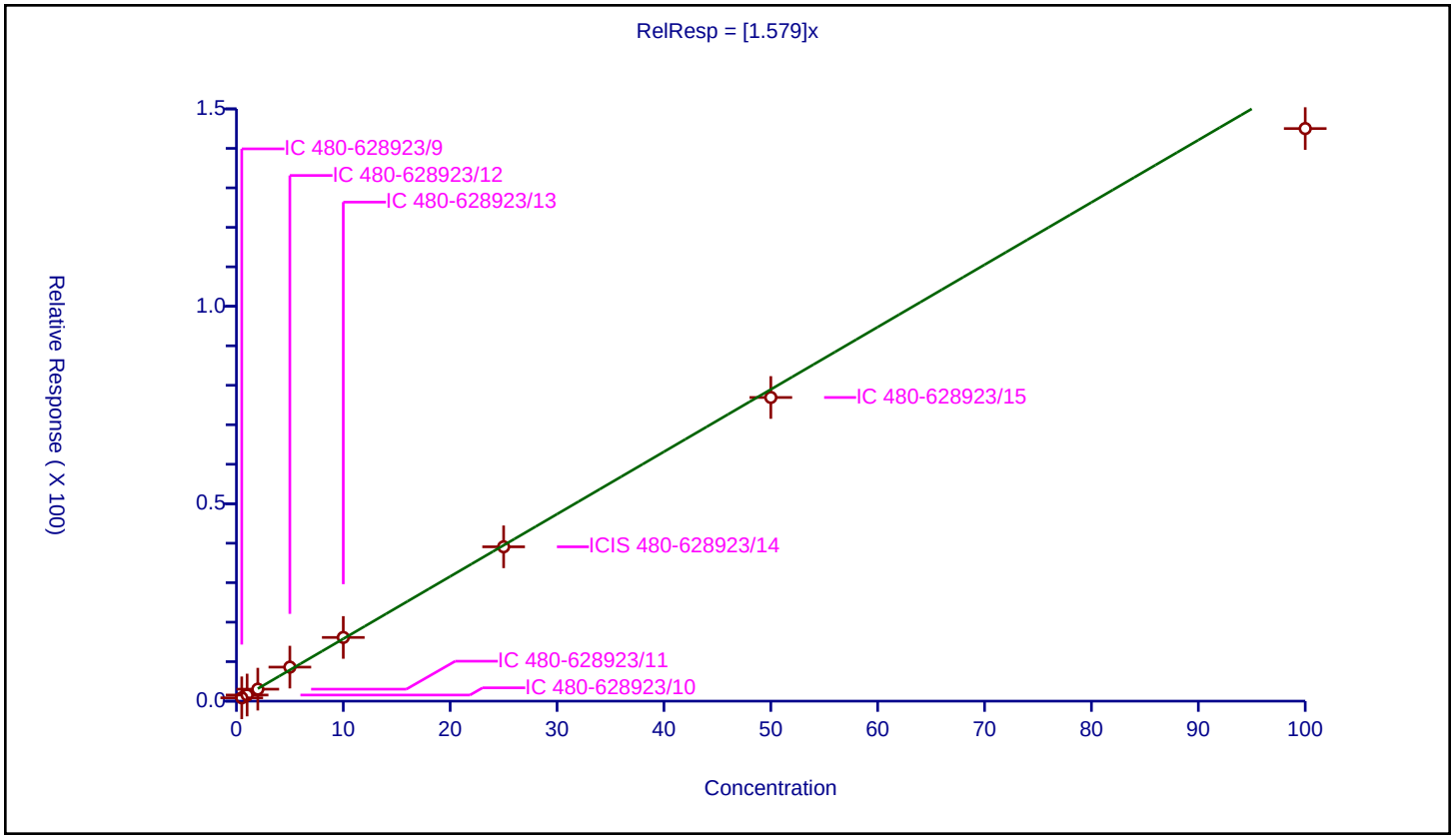
Curve Coefficients

Intercept:	0
Slope:	1.579

Error Coefficients

Standard Error:	621000
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.840311	25.0	233842.0	1.680622	Y
2	IC 480-628923/10	1.0	1.54707	25.0	216296.0	1.54707	Y
3	IC 480-628923/11	2.0	3.032794	25.0	228667.0	1.516397	Y
4	IC 480-628923/12	5.0	8.614422	25.0	219089.0	1.722884	Y
5	IC 480-628923/13	10.0	16.131374	25.0	220705.0	1.613137	Y
6	ICIS 480-628923/14	25.0	39.08975	25.0	223510.0	1.56359	Y
7	IC 480-628923/15	50.0	76.908726	25.0	232760.0	1.538175	Y
8	IC 480-628923/16	100.0	145.017582	25.0	245995.0	1.450176	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

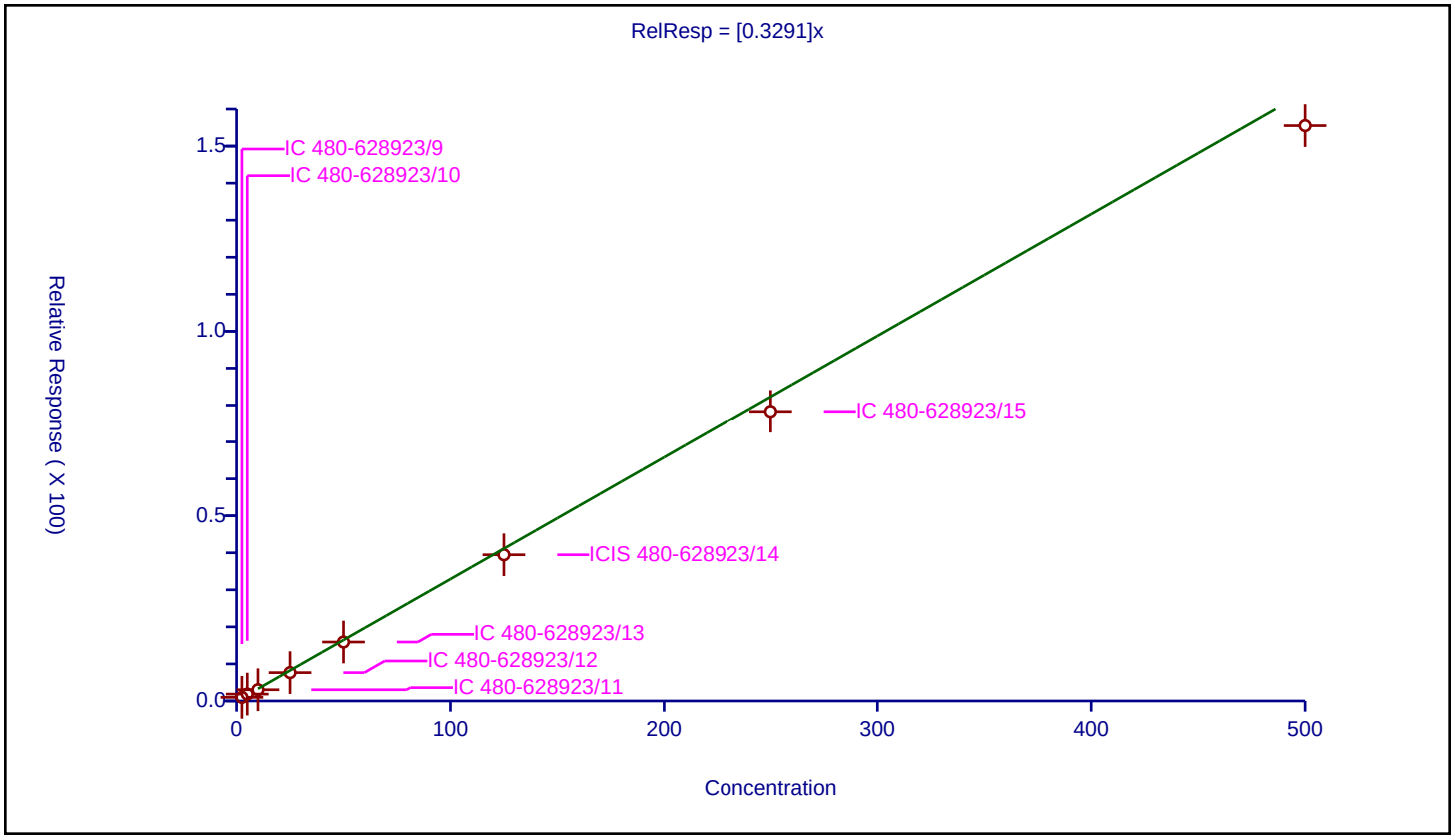
Curve Coefficients

Intercept:	0
Slope:	0.3291

Error Coefficients

Standard Error:	657000
Relative Standard Error:	10.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	2.5	0.983891	25.0	233842.0	0.393556	Y
2	IC 480-628923/10	5.0	1.859027	25.0	216296.0	0.371805	Y
3	IC 480-628923/11	10.0	3.03192	25.0	228667.0	0.303192	Y
4	IC 480-628923/12	25.0	7.650886	25.0	219089.0	0.306035	Y
5	IC 480-628923/13	50.0	15.911398	25.0	220705.0	0.318228	Y
6	ICIS 480-628923/14	125.0	39.467809	25.0	223510.0	0.315742	Y
7	IC 480-628923/15	250.0	78.305873	25.0	232760.0	0.313223	Y
8	IC 480-628923/16	500.0	155.542389	25.0	245995.0	0.311085	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

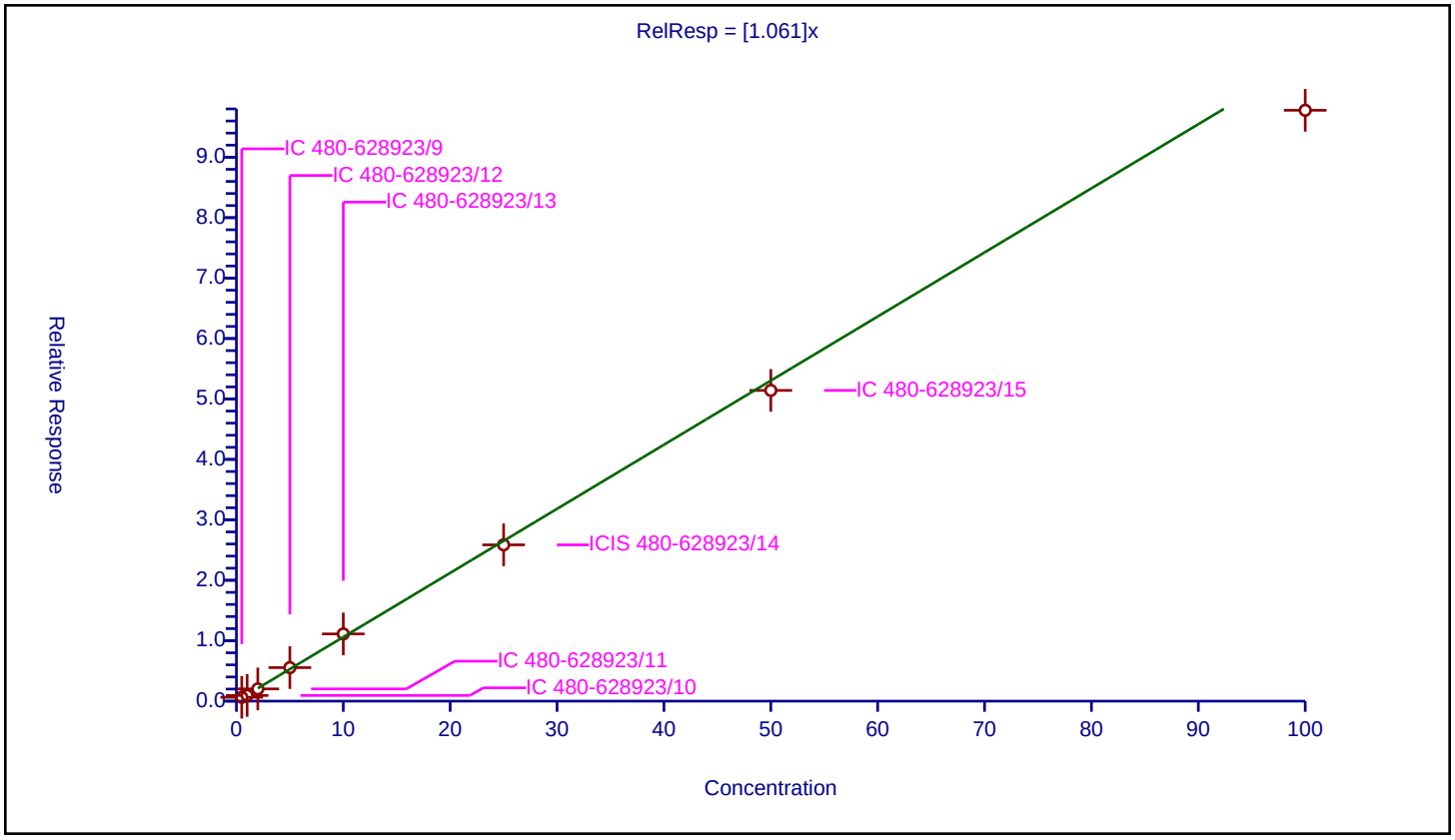
Curve Coefficients

Intercept:	0
Slope:	1.061

Error Coefficients

Standard Error:	418000
Relative Standard Error:	9.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.634723	25.0	233842.0	1.269447	Y
2	IC 480-628923/10	1.0	0.942343	25.0	216296.0	0.942343	Y
3	IC 480-628923/11	2.0	2.024341	25.0	228667.0	1.012171	Y
4	IC 480-628923/12	5.0	5.547289	25.0	219089.0	1.109458	Y
5	IC 480-628923/13	10.0	11.119481	25.0	220705.0	1.111948	Y
6	ICIS 480-628923/14	25.0	25.859917	25.0	223510.0	1.034397	Y
7	IC 480-628923/15	50.0	51.417984	25.0	232760.0	1.02836	Y
8	IC 480-628923/16	100.0	97.771296	25.0	245995.0	0.977713	Y



Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

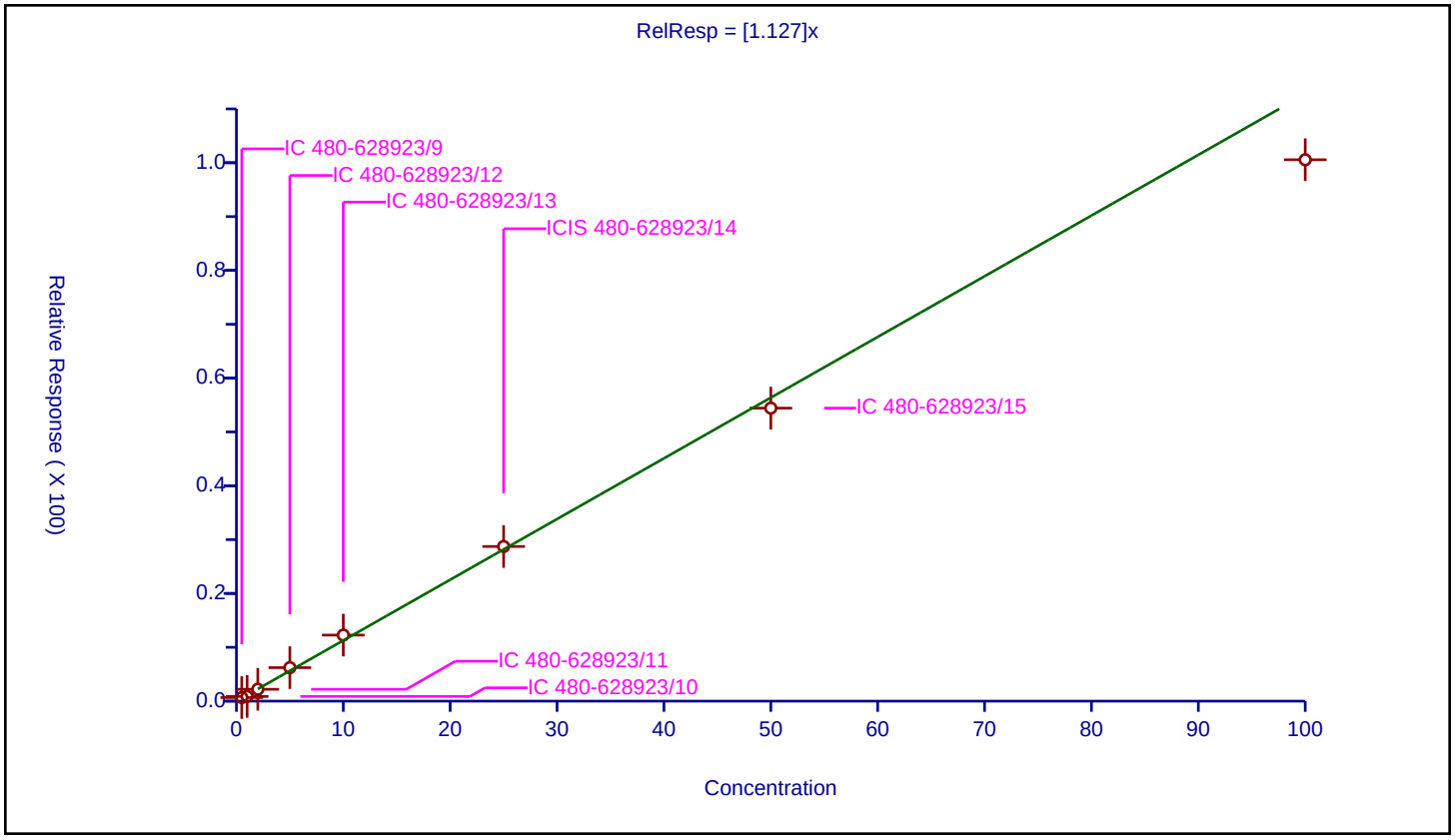
Curve Coefficients

Intercept:	0
Slope:	1.127

Error Coefficients

Standard Error:	434000
Relative Standard Error:	12.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.66391	25.0	233842.0	1.32782	Y
2	IC 480-628923/10	1.0	0.874843	25.0	216296.0	0.874843	Y
3	IC 480-628923/11	2.0	2.204953	25.0	228667.0	1.102477	Y
4	IC 480-628923/12	5.0	6.22133	25.0	219089.0	1.244266	Y
5	IC 480-628923/13	10.0	12.265354	25.0	220705.0	1.226535	Y
6	ICIS 480-628923/14	25.0	28.725001	25.0	223510.0	1.149	Y
7	IC 480-628923/15	50.0	54.421507	25.0	232760.0	1.08843	Y
8	IC 480-628923/16	100.0	100.555296	25.0	245995.0	1.005553	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

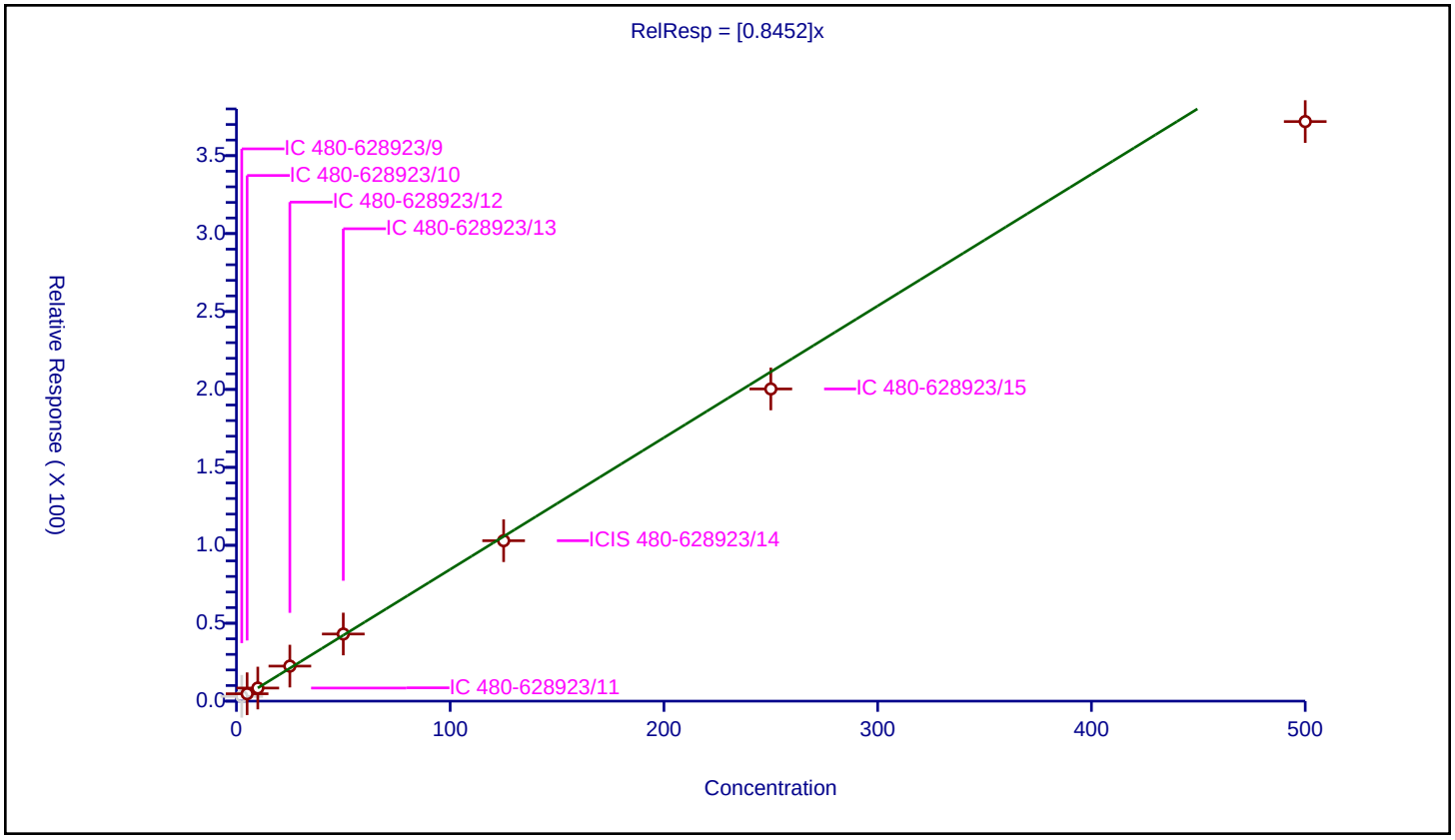
Curve Coefficients

Intercept:	0
Slope:	0.8452

Error Coefficients

Standard Error:	1730000
Relative Standard Error:	7.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	2.5	3.065745	25.0	233842.0	1.226298	N
2	IC 480-628923/10	5.0	4.735178	25.0	216296.0	0.947036	Y
3	IC 480-628923/11	10.0	8.407641	25.0	228667.0	0.840764	Y
4	IC 480-628923/12	25.0	22.476368	25.0	219089.0	0.899055	Y
5	IC 480-628923/13	50.0	43.071521	25.0	220705.0	0.86143	Y
6	ICIS 480-628923/14	125.0	102.93186	25.0	223510.0	0.823455	Y
7	IC 480-628923/15	250.0	200.30858	25.0	232760.0	0.801234	Y
8	IC 480-628923/16	500.0	371.872193	25.0	245995.0	0.743744	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

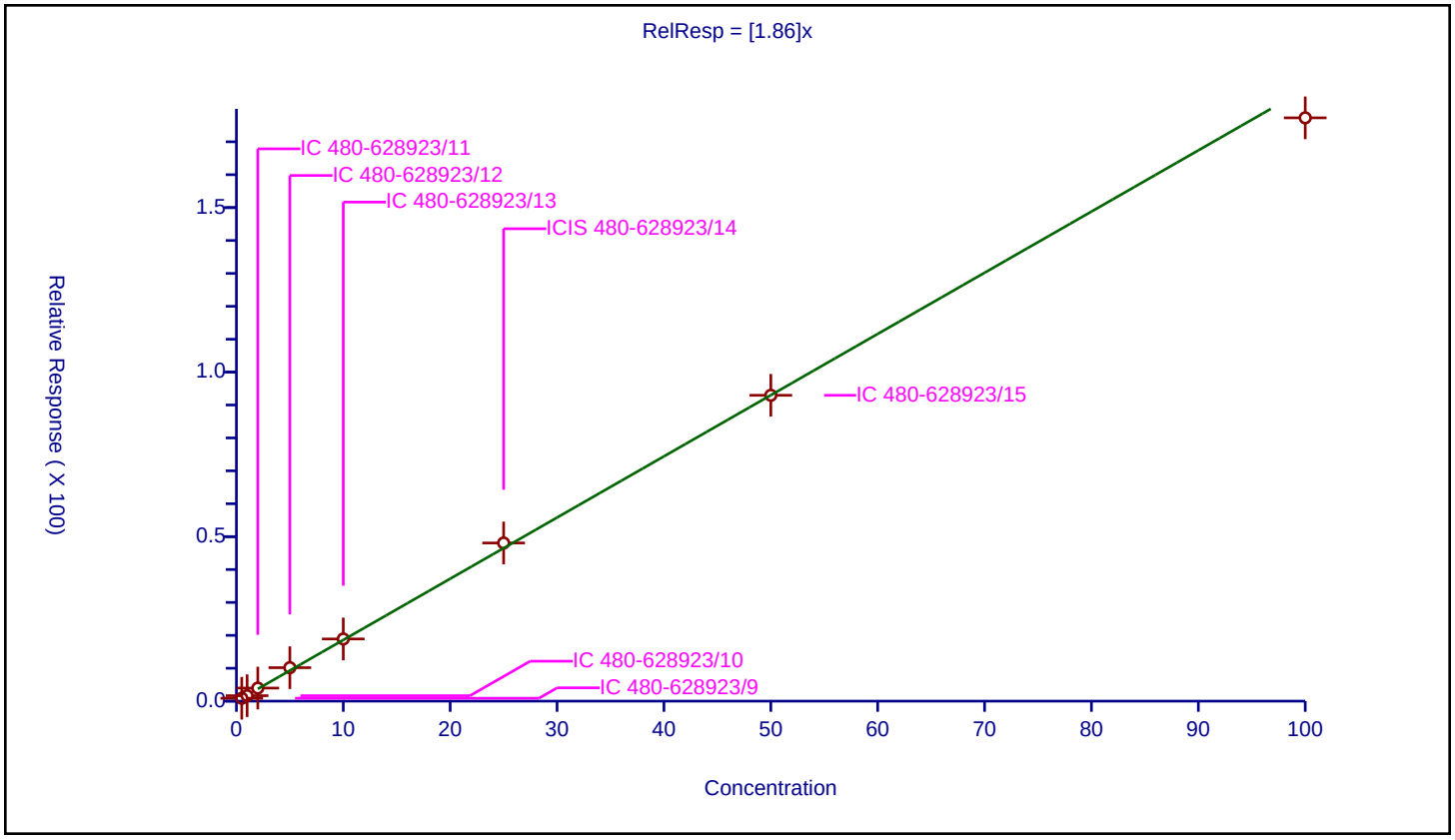
Curve Coefficients

Intercept:	0
Slope:	1.86

Error Coefficients

Standard Error:	757000
Relative Standard Error:	6.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.87944	25.0	233842.0	1.75888	Y
2	IC 480-628923/10	1.0	1.656295	25.0	216296.0	1.656295	Y
3	IC 480-628923/11	2.0	3.970949	25.0	228667.0	1.985475	Y
4	IC 480-628923/12	5.0	10.172921	25.0	219089.0	2.034584	Y
5	IC 480-628923/13	10.0	18.893886	25.0	220705.0	1.889389	Y
6	ICIS 480-628923/14	25.0	48.070221	25.0	223510.0	1.922809	Y
7	IC 480-628923/15	50.0	92.956479	25.0	232760.0	1.85913	Y
8	IC 480-628923/16	100.0	177.283481	25.0	245995.0	1.772835	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

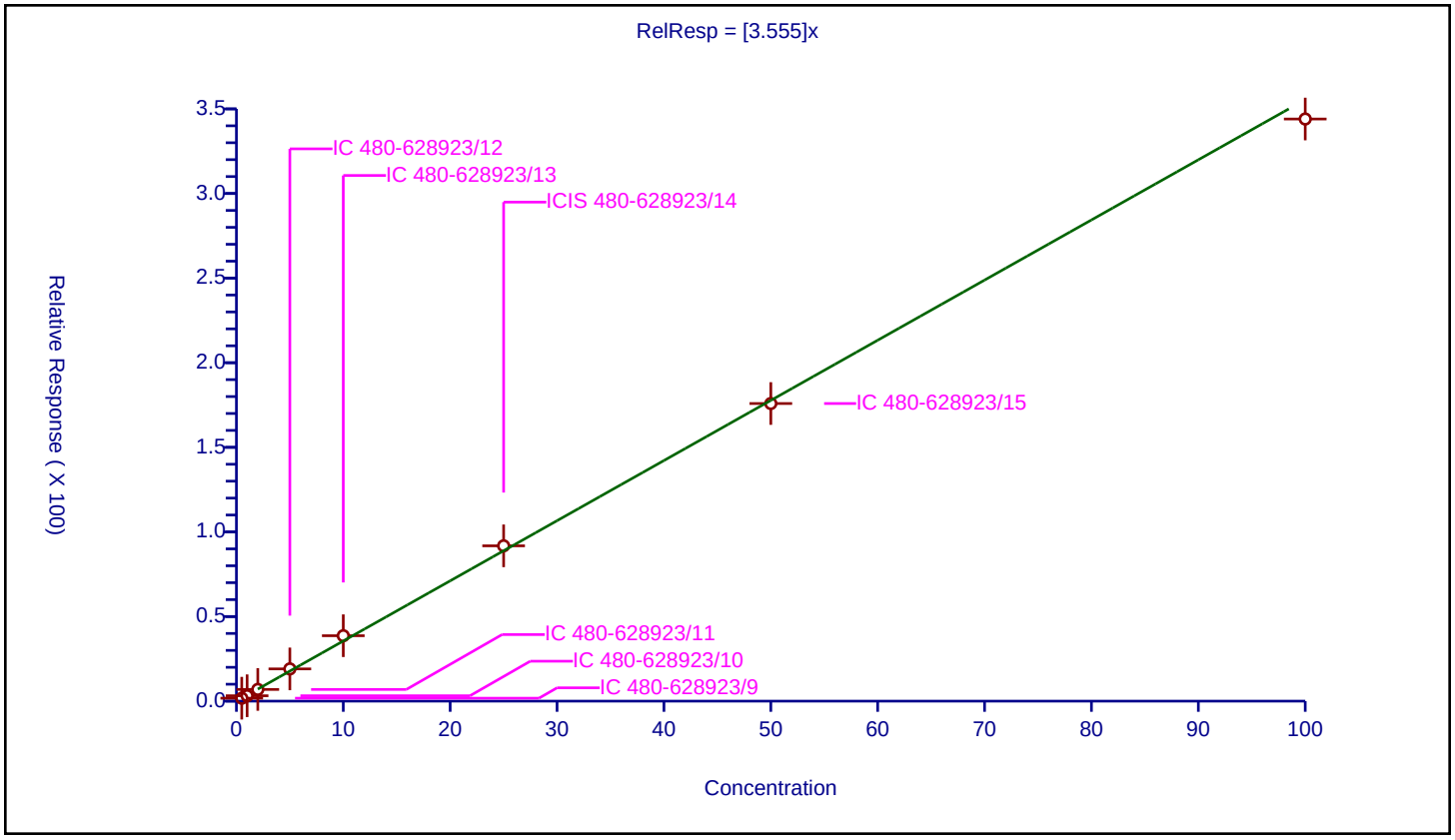
Curve Coefficients

Intercept:	0
Slope:	3.555

Error Coefficients

Standard Error:	1460000
Relative Standard Error:	6.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	1.743806	25.0	233842.0	3.487611	Y
2	IC 480-628923/10	1.0	3.184872	25.0	216296.0	3.184872	Y
3	IC 480-628923/11	2.0	6.916827	25.0	228667.0	3.458413	Y
4	IC 480-628923/12	5.0	19.055954	25.0	219089.0	3.811191	Y
5	IC 480-628923/13	10.0	38.657031	25.0	220705.0	3.865703	Y
6	ICIS 480-628923/14	25.0	91.784037	25.0	223510.0	3.671361	Y
7	IC 480-628923/15	50.0	175.881165	25.0	232760.0	3.517623	Y
8	IC 480-628923/16	100.0	344.023456	25.0	245995.0	3.440235	Y



Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

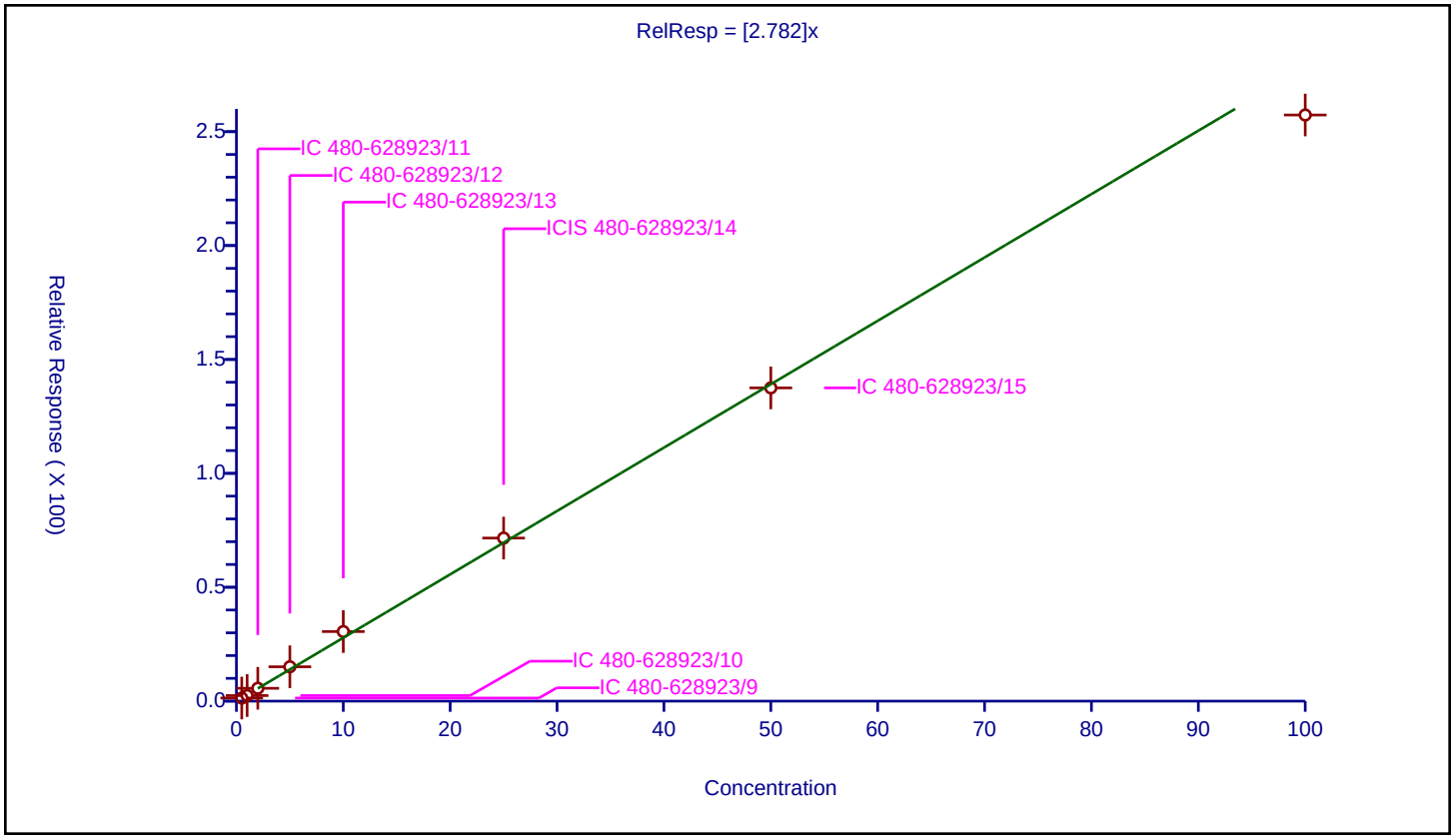
Curve Coefficients

Intercept:	0
Slope:	2.782

Error Coefficients

Standard Error:	1110000
Relative Standard Error:	7.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	1.362458	25.0	233842.0	2.724917	Y
2	IC 480-628923/10	1.0	2.455316	25.0	216296.0	2.455316	Y
3	IC 480-628923/11	2.0	5.640079	25.0	228667.0	2.82004	Y
4	IC 480-628923/12	5.0	15.085194	25.0	219089.0	3.017039	Y
5	IC 480-628923/13	10.0	30.550056	25.0	220705.0	3.055006	Y
6	ICIS 480-628923/14	25.0	71.587625	25.0	223510.0	2.863505	Y
7	IC 480-628923/15	50.0	137.525241	25.0	232760.0	2.750505	Y
8	IC 480-628923/16	100.0	257.324234	25.0	245995.0	2.573242	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

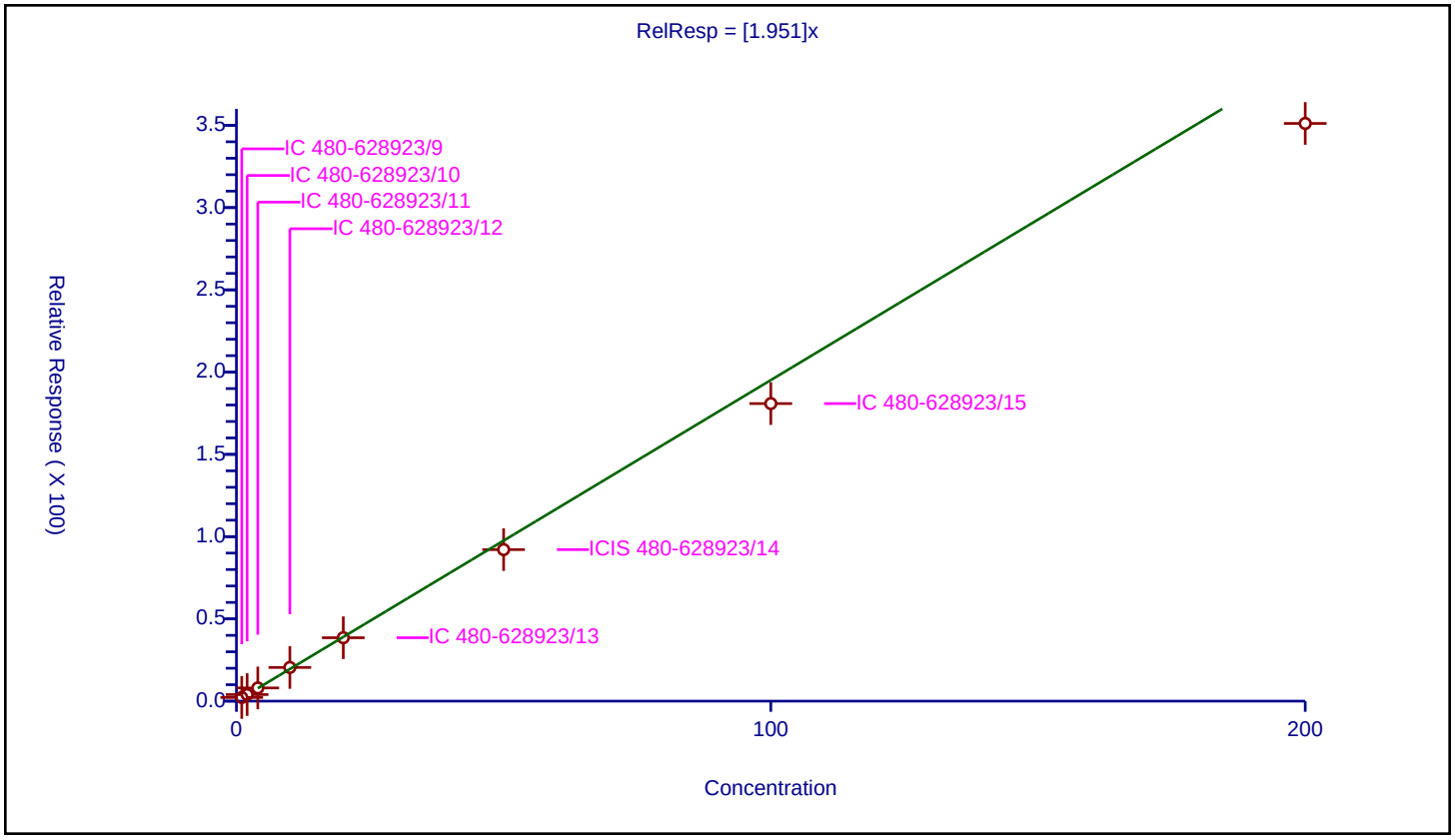
Curve Coefficients

Intercept:	0
Slope:	1.951

Error Coefficients

Standard Error:	1490000
Relative Standard Error:	7.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	1.0	2.230566	25.0	233842.0	2.230566	Y
2	IC 480-628923/10	2.0	3.985279	25.0	216296.0	1.99264	Y
3	IC 480-628923/11	4.0	8.023676	25.0	228667.0	2.005919	Y
4	IC 480-628923/12	10.0	20.478892	25.0	219089.0	2.047889	Y
5	IC 480-628923/13	20.0	38.541832	25.0	220705.0	1.927092	Y
6	ICIS 480-628923/14	50.0	92.118473	25.0	223510.0	1.842369	Y
7	IC 480-628923/15	100.0	180.876869	25.0	232760.0	1.808769	Y
8	IC 480-628923/16	200.0	351.15541	25.0	245995.0	1.755777	Y



Calibration / Methylene Chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

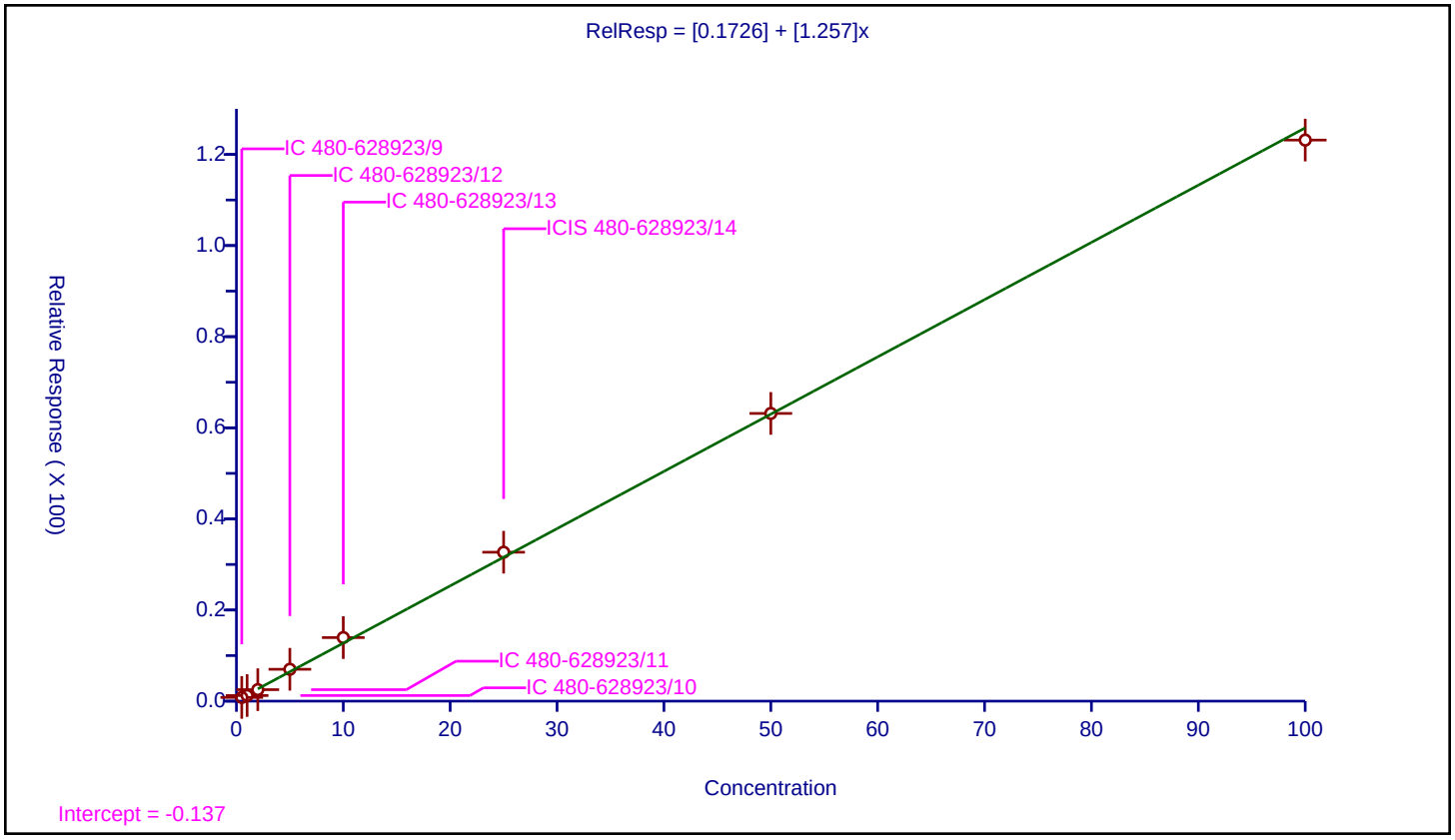
Curve Coefficients

Intercept:	0.1726
Slope:	1.257

Error Coefficients

Standard Error:	566000
Relative Standard Error:	9.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.816577	25.0	233842.0	1.633154	Y
2	IC 480-628923/10	1.0	1.227831	25.0	216296.0	1.227831	Y
3	IC 480-628923/11	2.0	2.525288	25.0	228667.0	1.262644	Y
4	IC 480-628923/12	5.0	6.993277	25.0	219089.0	1.398655	Y
5	IC 480-628923/13	10.0	13.954373	25.0	220705.0	1.395437	Y
6	ICIS 480-628923/14	25.0	32.690707	25.0	223510.0	1.307628	Y
7	IC 480-628923/15	50.0	63.154644	25.0	232760.0	1.263093	Y
8	IC 480-628923/16	100.0	123.152503	25.0	245995.0	1.231525	Y



Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

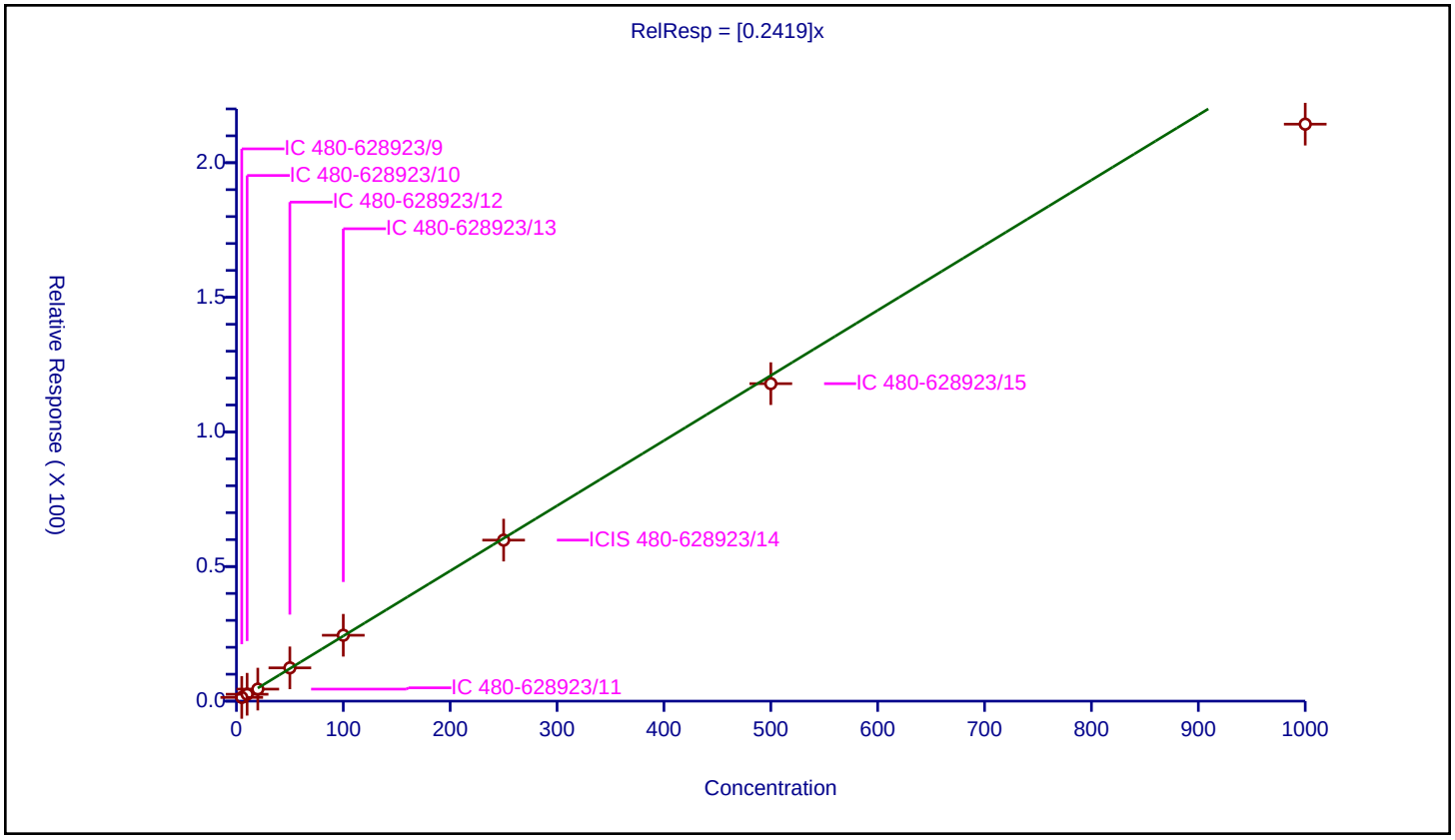
Curve Coefficients

Intercept:	0
Slope:	0.2419

Error Coefficients

Standard Error:	926000
Relative Standard Error:	7.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	5.0	1.376036	25.0	233842.0	0.275207	Y
2	IC 480-628923/10	10.0	2.554948	25.0	216296.0	0.255495	Y
3	IC 480-628923/11	20.0	4.466867	25.0	228667.0	0.223343	Y
4	IC 480-628923/12	50.0	12.364496	25.0	219089.0	0.24729	Y
5	IC 480-628923/13	100.0	24.472373	25.0	220705.0	0.244724	Y
6	ICIS 480-628923/14	250.0	59.810076	25.0	223510.0	0.23924	Y
7	IC 480-628923/15	500.0	117.937897	25.0	232760.0	0.235876	Y
8	IC 480-628923/16	1000.0	214.326307	25.0	245995.0	0.214326	Y



Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

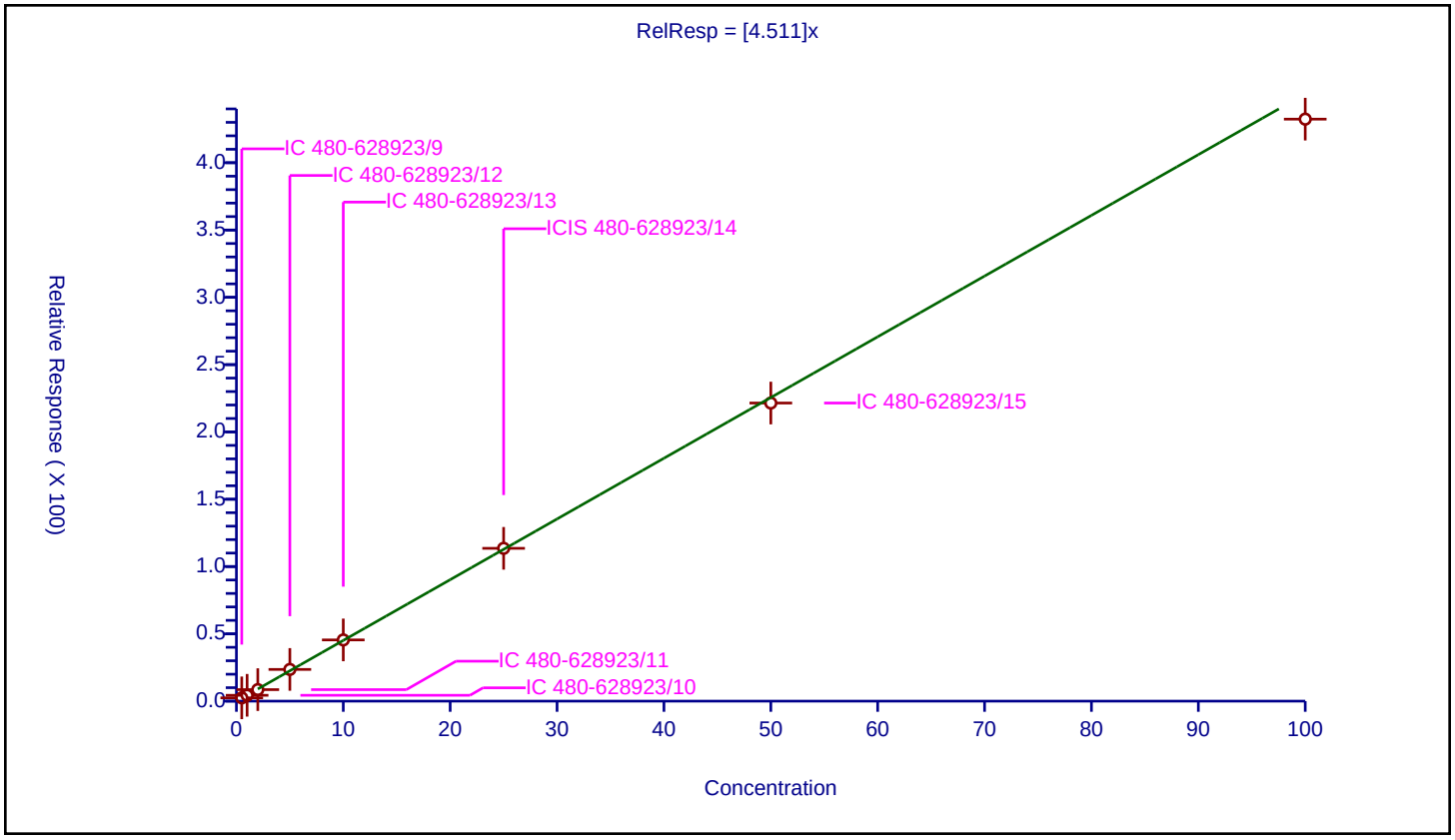
Curve Coefficients

Intercept:	0
Slope:	4.511

Error Coefficients

Standard Error:	1840000
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	2.452404	25.0	233842.0	4.904808	Y
2	IC 480-628923/10	1.0	4.348902	25.0	216296.0	4.348902	Y
3	IC 480-628923/11	2.0	8.56092	25.0	228667.0	4.28046	Y
4	IC 480-628923/12	5.0	23.560517	25.0	219089.0	4.712103	Y
5	IC 480-628923/13	10.0	45.489114	25.0	220705.0	4.548911	Y
6	ICIS 480-628923/14	25.0	113.531162	25.0	223510.0	4.541246	Y
7	IC 480-628923/15	50.0	221.478132	25.0	232760.0	4.429563	Y
8	IC 480-628923/16	100.0	432.389784	25.0	245995.0	4.323898	Y



Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

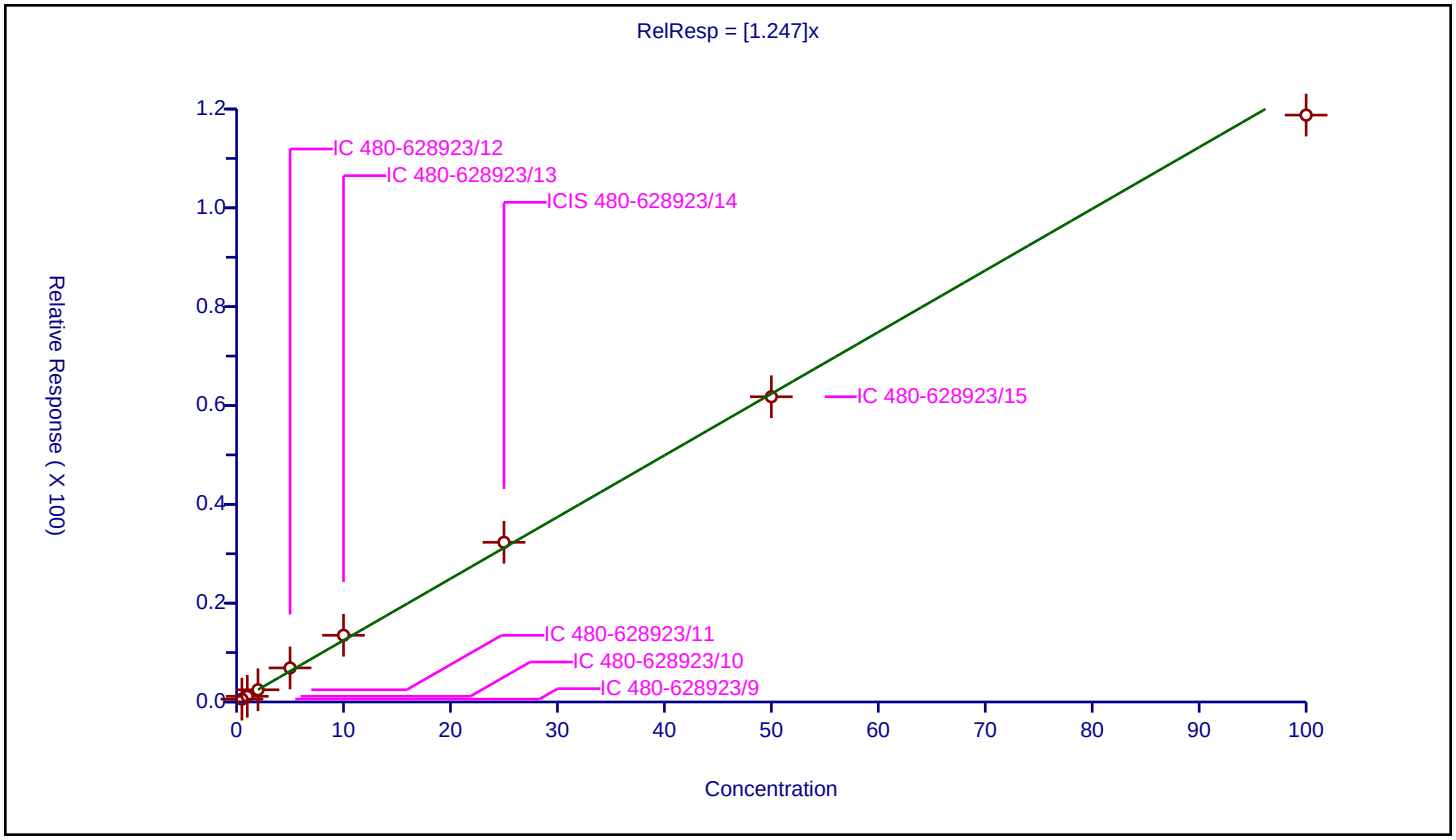
Curve Coefficients

Intercept:	0
Slope:	1.247

Error Coefficients

Standard Error:	507000
Relative Standard Error:	7.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.576671	25.0	233842.0	1.153343	Y
2	IC 480-628923/10	1.0	1.145883	25.0	216296.0	1.145883	Y
3	IC 480-628923/11	2.0	2.472591	25.0	228667.0	1.236296	Y
4	IC 480-628923/12	5.0	6.891834	25.0	219089.0	1.378367	Y
5	IC 480-628923/13	10.0	13.499694	25.0	220705.0	1.349969	Y
6	ICIS 480-628923/14	25.0	32.316116	25.0	223510.0	1.292645	Y
7	IC 480-628923/15	50.0	61.768775	25.0	232760.0	1.235375	Y
8	IC 480-628923/16	100.0	118.7703	25.0	245995.0	1.187703	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

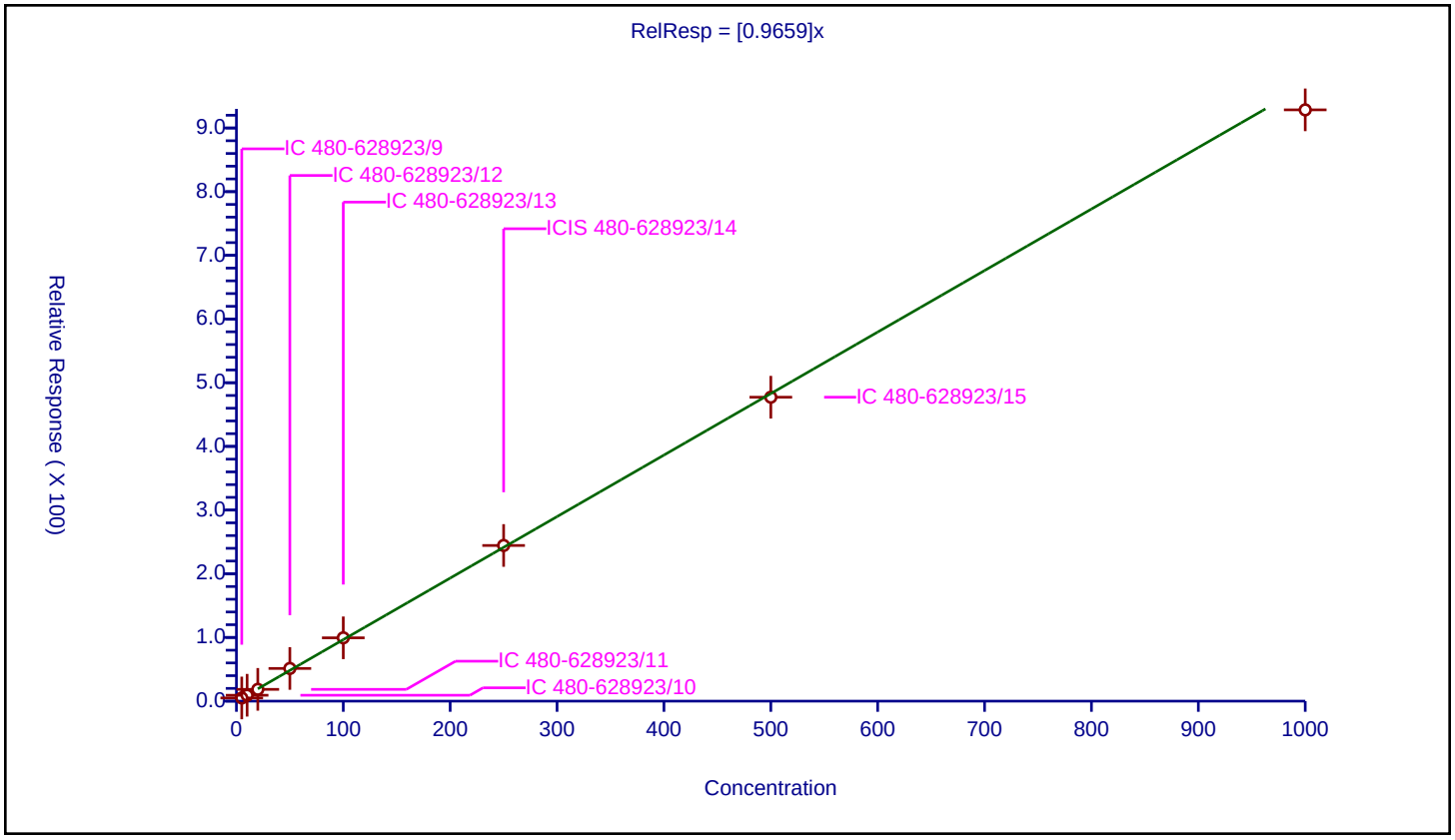
Curve Coefficients

Intercept:	0
Slope:	0.9659

Error Coefficients

Standard Error:	3950000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	5.0	4.97772	25.0	233842.0	0.995544	Y
2	IC 480-628923/10	10.0	9.249362	25.0	216296.0	0.924936	Y
3	IC 480-628923/11	20.0	18.50103	25.0	228667.0	0.925051	Y
4	IC 480-628923/12	50.0	51.33747	25.0	219089.0	1.026749	Y
5	IC 480-628923/13	100.0	99.449491	25.0	220705.0	0.994495	Y
6	ICIS 480-628923/14	250.0	244.437274	25.0	223510.0	0.977749	Y
7	IC 480-628923/15	500.0	477.251353	25.0	232760.0	0.954503	Y
8	IC 480-628923/16	1000.0	928.472936	25.0	245995.0	0.928473	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

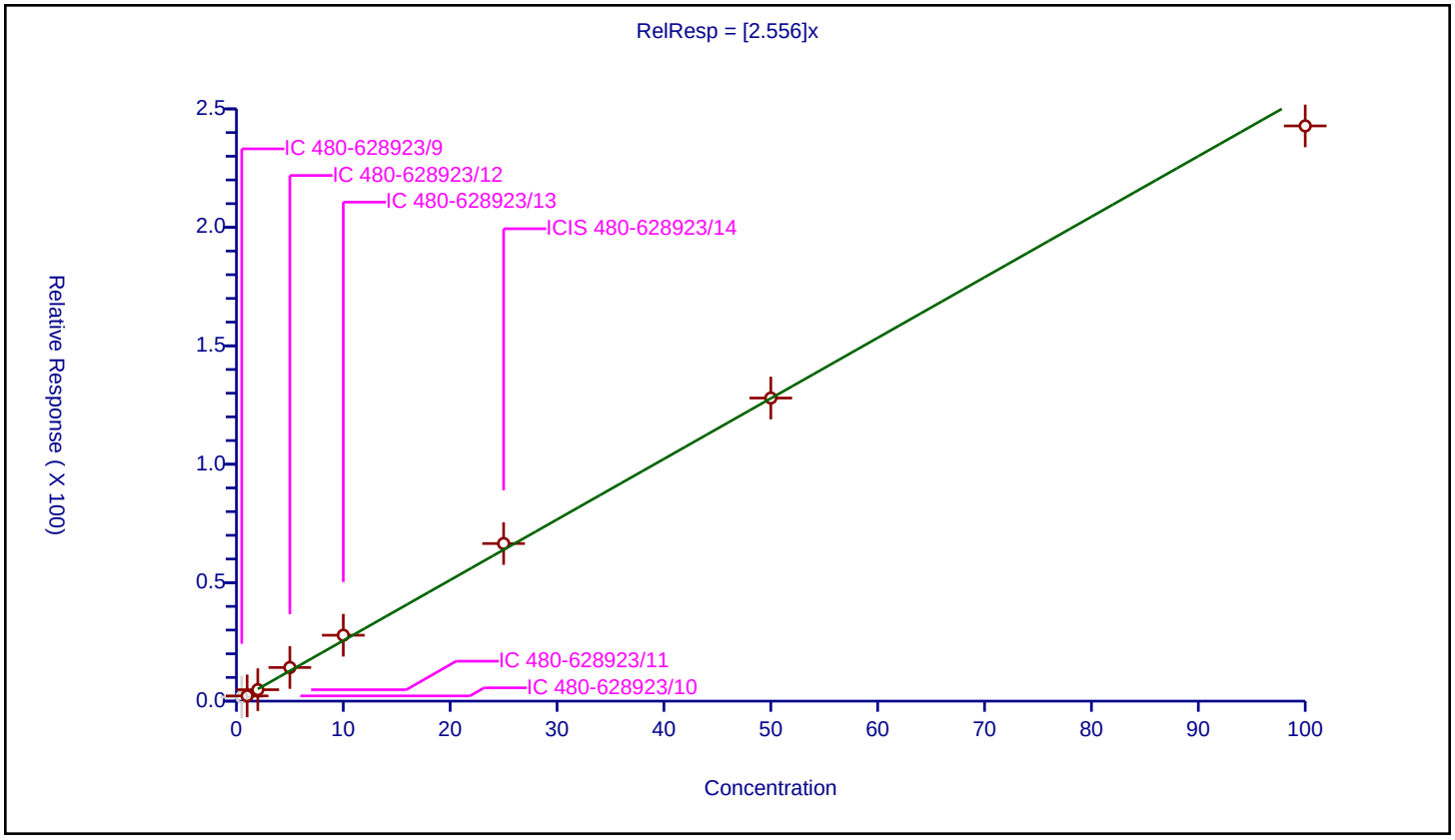
Curve Coefficients

Intercept:	0
Slope:	2.556

Error Coefficients

Standard Error:	1120000
Relative Standard Error:	8.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	1.721782	25.0	233842.0	3.443564	N
2	IC 480-628923/10	1.0	2.206698	25.0	216296.0	2.206698	Y
3	IC 480-628923/11	2.0	4.83301	25.0	228667.0	2.416505	Y
4	IC 480-628923/12	5.0	14.194003	25.0	219089.0	2.838801	Y
5	IC 480-628923/13	10.0	27.817222	25.0	220705.0	2.781722	Y
6	ICIS 480-628923/14	25.0	66.532482	25.0	223510.0	2.661299	Y
7	IC 480-628923/15	50.0	127.943697	25.0	232760.0	2.558874	Y
8	IC 480-628923/16	100.0	242.815809	25.0	245995.0	2.428158	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

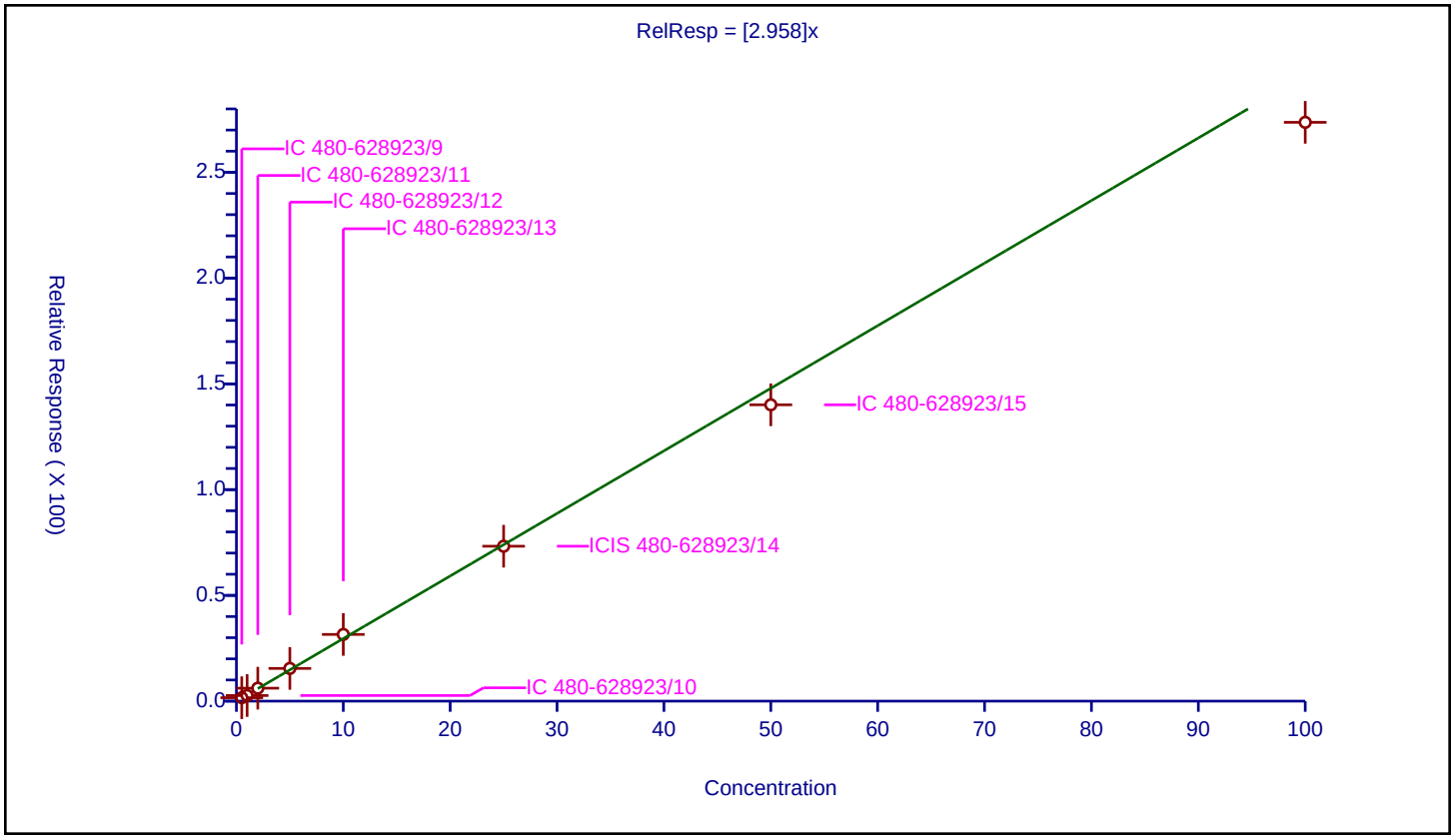
Curve Coefficients

Intercept:	0
Slope:	2.958

Error Coefficients

Standard Error:	1160000
Relative Standard Error:	7.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	1.614979	25.0	233842.0	3.229959	Y
2	IC 480-628923/10	1.0	2.655851	25.0	216296.0	2.655851	Y
3	IC 480-628923/11	2.0	6.129328	25.0	228667.0	3.064664	Y
4	IC 480-628923/12	5.0	15.472365	25.0	219089.0	3.094473	Y
5	IC 480-628923/13	10.0	31.533382	25.0	220705.0	3.153338	Y
6	ICIS 480-628923/14	25.0	73.238558	25.0	223510.0	2.929542	Y
7	IC 480-628923/15	50.0	140.107514	25.0	232760.0	2.80215	Y
8	IC 480-628923/16	100.0	273.652208	25.0	245995.0	2.736522	Y



Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

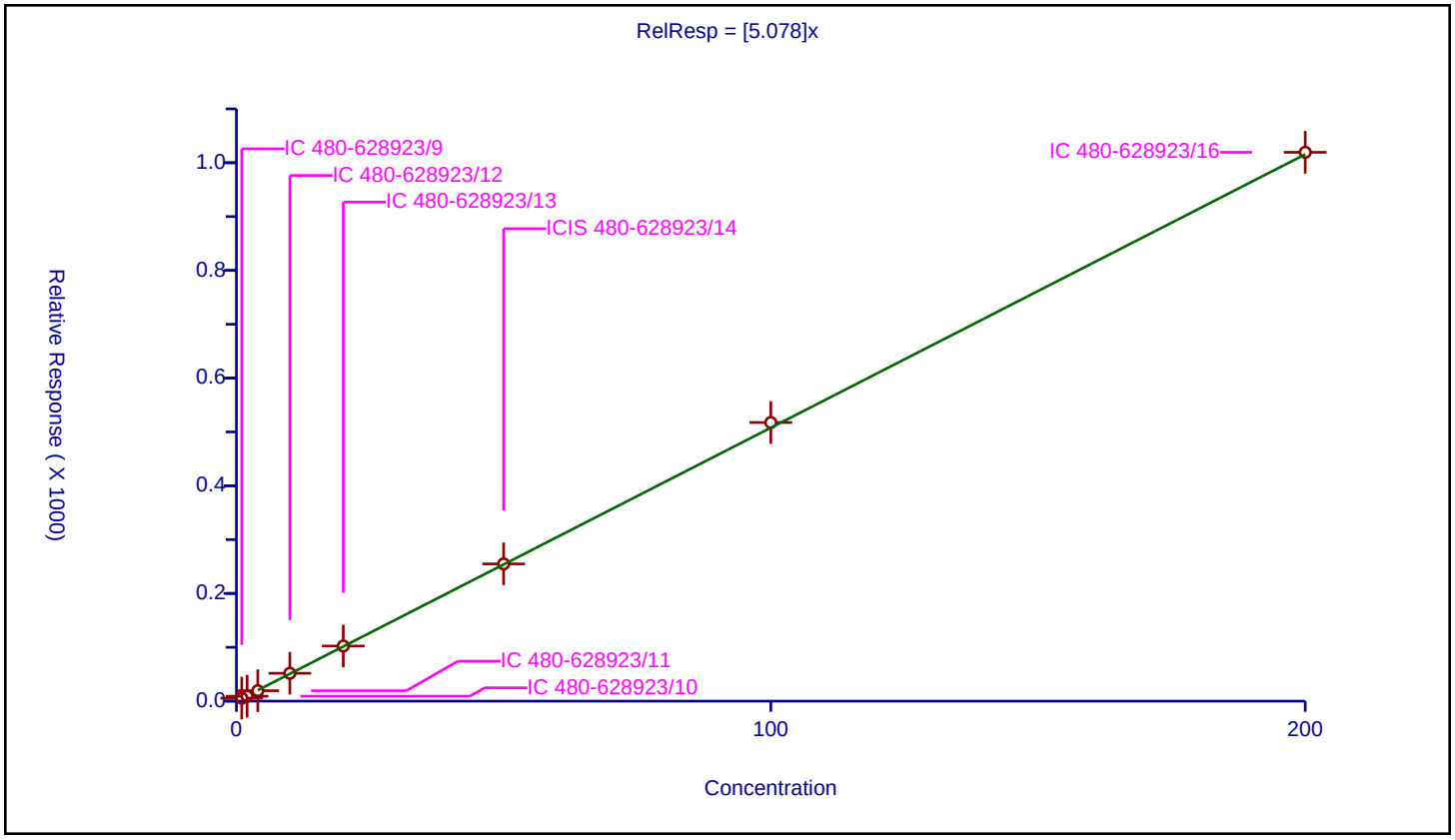
Curve Coefficients

Intercept:	0
Slope:	5.078

Error Coefficients

Standard Error:	4310000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	1.0	5.554071	25.0	233842.0	5.554071	Y
2	IC 480-628923/10	2.0	9.139096	25.0	216296.0	4.569548	Y
3	IC 480-628923/11	4.0	19.356422	25.0	228667.0	4.839106	Y
4	IC 480-628923/12	10.0	51.724299	25.0	219089.0	5.17243	Y
5	IC 480-628923/13	20.0	102.345665	25.0	220705.0	5.117283	Y
6	ICIS 480-628923/14	50.0	254.86712	25.0	223510.0	5.097342	Y
7	IC 480-628923/15	100.0	517.524704	25.0	232760.0	5.175247	Y
8	IC 480-628923/16	200.0	1019.35019	25.0	245995.0	5.096751	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

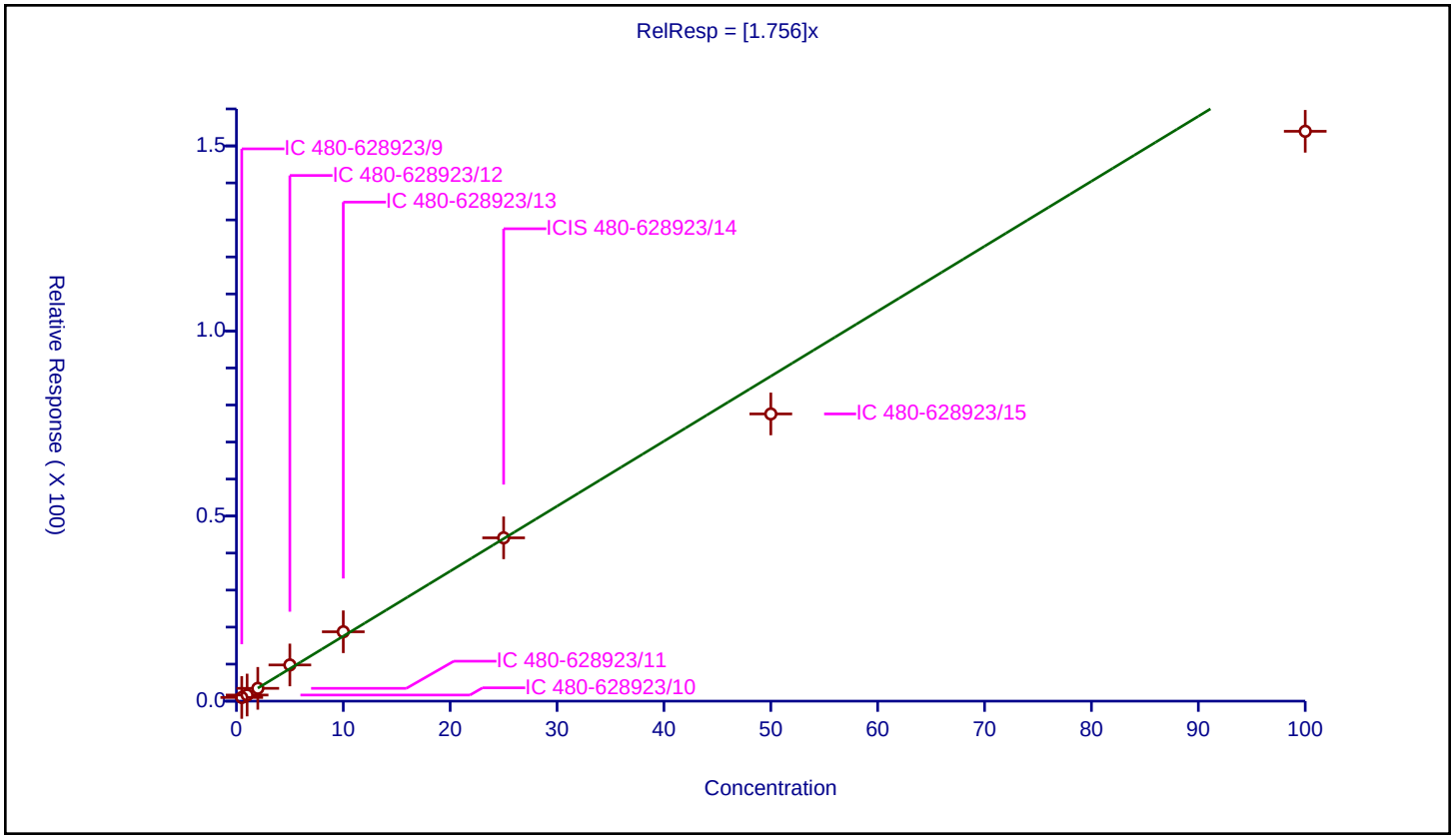
Curve Coefficients

Intercept:	0
Slope:	1.756

Error Coefficients

Standard Error:	655000
Relative Standard Error:	9.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.990092	25.0	233842.0	1.980183	Y
2	IC 480-628923/10	1.0	1.652712	25.0	216296.0	1.652712	Y
3	IC 480-628923/11	2.0	3.453931	25.0	228667.0	1.726965	Y
4	IC 480-628923/12	5.0	9.777876	25.0	219089.0	1.955575	Y
5	IC 480-628923/13	10.0	18.738135	25.0	220705.0	1.873813	Y
6	ICIS 480-628923/14	25.0	44.117489	25.0	223510.0	1.7647	Y
7	IC 480-628923/15	50.0	77.590759	25.0	232760.0	1.551815	Y
8	IC 480-628923/16	100.0	153.946625	25.0	245995.0	1.539466	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

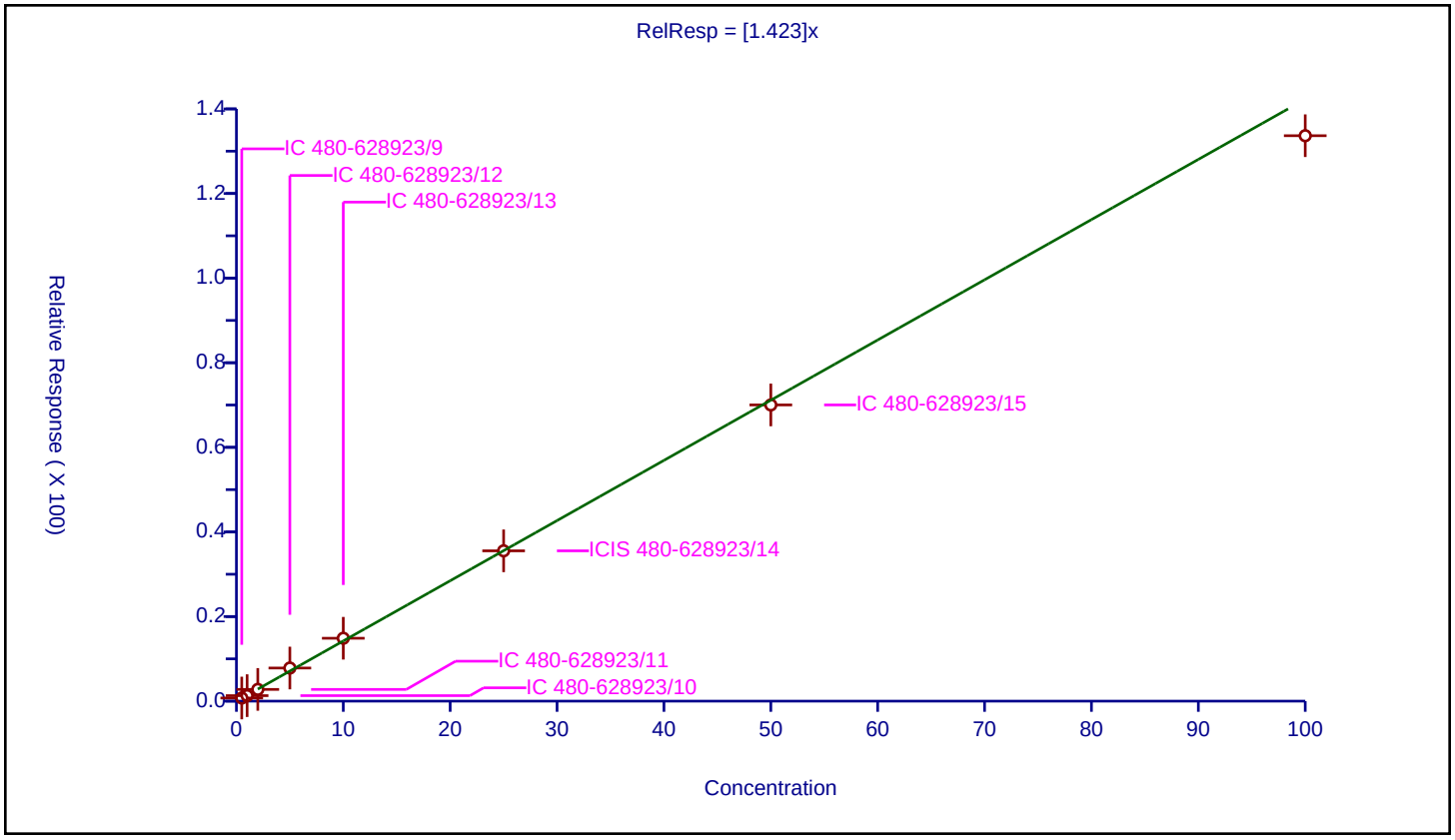
Curve Coefficients

Intercept:	0
Slope:	1.423

Error Coefficients

Standard Error:	570000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.741633	25.0	233842.0	1.483266	Y
2	IC 480-628923/10	1.0	1.301226	25.0	216296.0	1.301226	Y
3	IC 480-628923/11	2.0	2.775215	25.0	228667.0	1.387607	Y
4	IC 480-628923/12	5.0	7.828782	25.0	219089.0	1.565756	Y
5	IC 480-628923/13	10.0	14.865884	25.0	220705.0	1.486588	Y
6	ICIS 480-628923/14	25.0	35.531855	25.0	223510.0	1.421274	Y
7	IC 480-628923/15	50.0	70.0232	25.0	232760.0	1.400464	Y
8	IC 480-628923/16	100.0	133.657696	25.0	245995.0	1.336577	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

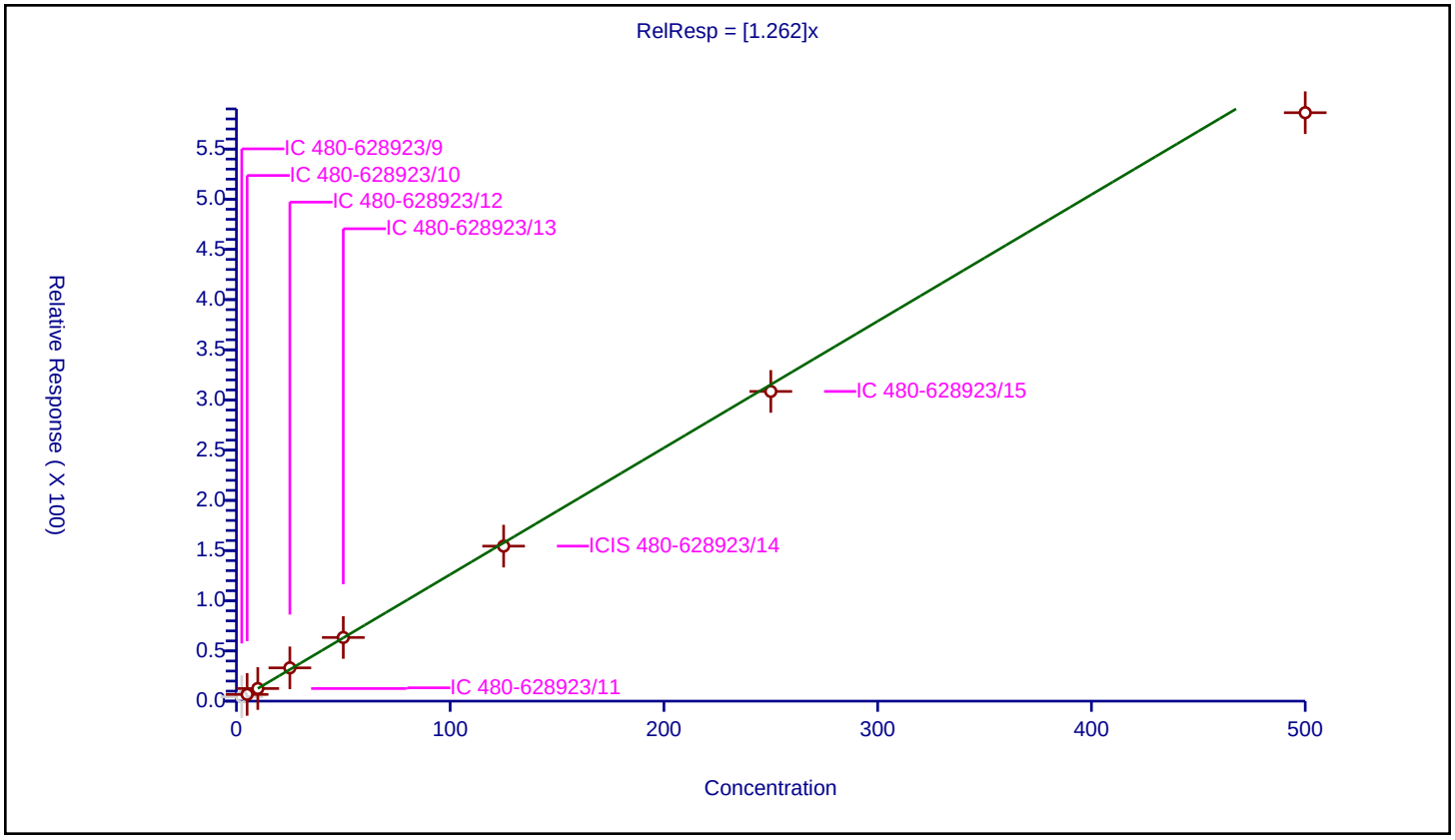
Curve Coefficients

Intercept:	0
Slope:	1.262

Error Coefficients

Standard Error:	2700000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	2.5	4.429593	25.0	233842.0	1.771837	N
2	IC 480-628923/10	5.0	6.690484	25.0	216296.0	1.338097	Y
3	IC 480-628923/11	10.0	12.565762	25.0	228667.0	1.256576	Y
4	IC 480-628923/12	25.0	33.146119	25.0	219089.0	1.325845	Y
5	IC 480-628923/13	50.0	63.421649	25.0	220705.0	1.268433	Y
6	ICIS 480-628923/14	125.0	154.435372	25.0	223510.0	1.235483	Y
7	IC 480-628923/15	250.0	308.547216	25.0	232760.0	1.234189	Y
8	IC 480-628923/16	500.0	586.20846	25.0	245995.0	1.172417	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

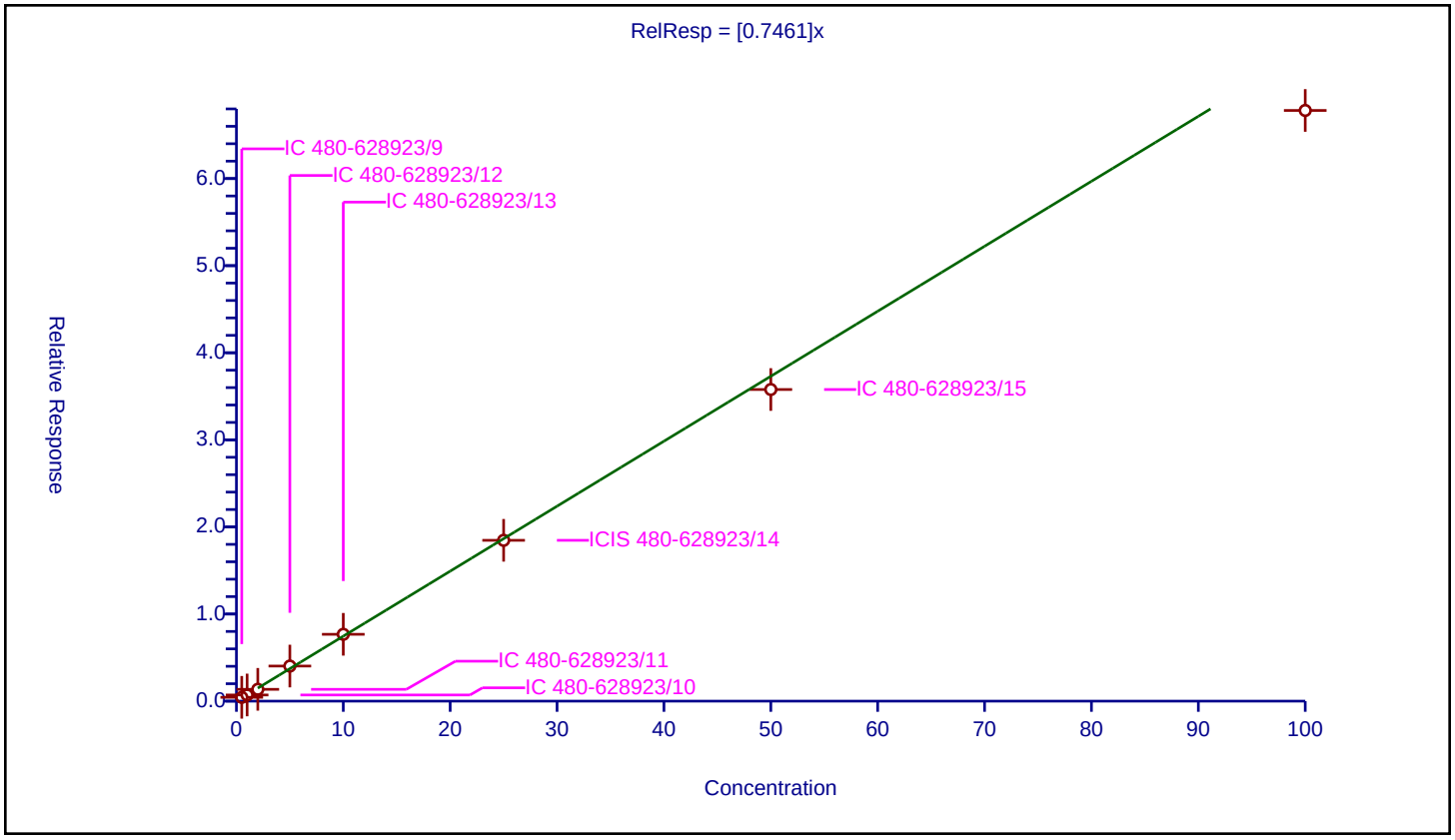
Curve Coefficients

Intercept:	0
Slope:	0.7461

Error Coefficients

Standard Error:	290000
Relative Standard Error:	9.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.438544	25.0	233842.0	0.877088	Y
2	IC 480-628923/10	1.0	0.707942	25.0	216296.0	0.707942	Y
3	IC 480-628923/11	2.0	1.356886	25.0	228667.0	0.678443	Y
4	IC 480-628923/12	5.0	4.027815	25.0	219089.0	0.805563	Y
5	IC 480-628923/13	10.0	7.673025	25.0	220705.0	0.767303	Y
6	ICIS 480-628923/14	25.0	18.464386	25.0	223510.0	0.738575	Y
7	IC 480-628923/15	50.0	35.779451	25.0	232760.0	0.715589	Y
8	IC 480-628923/16	100.0	67.818248	25.0	245995.0	0.678182	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

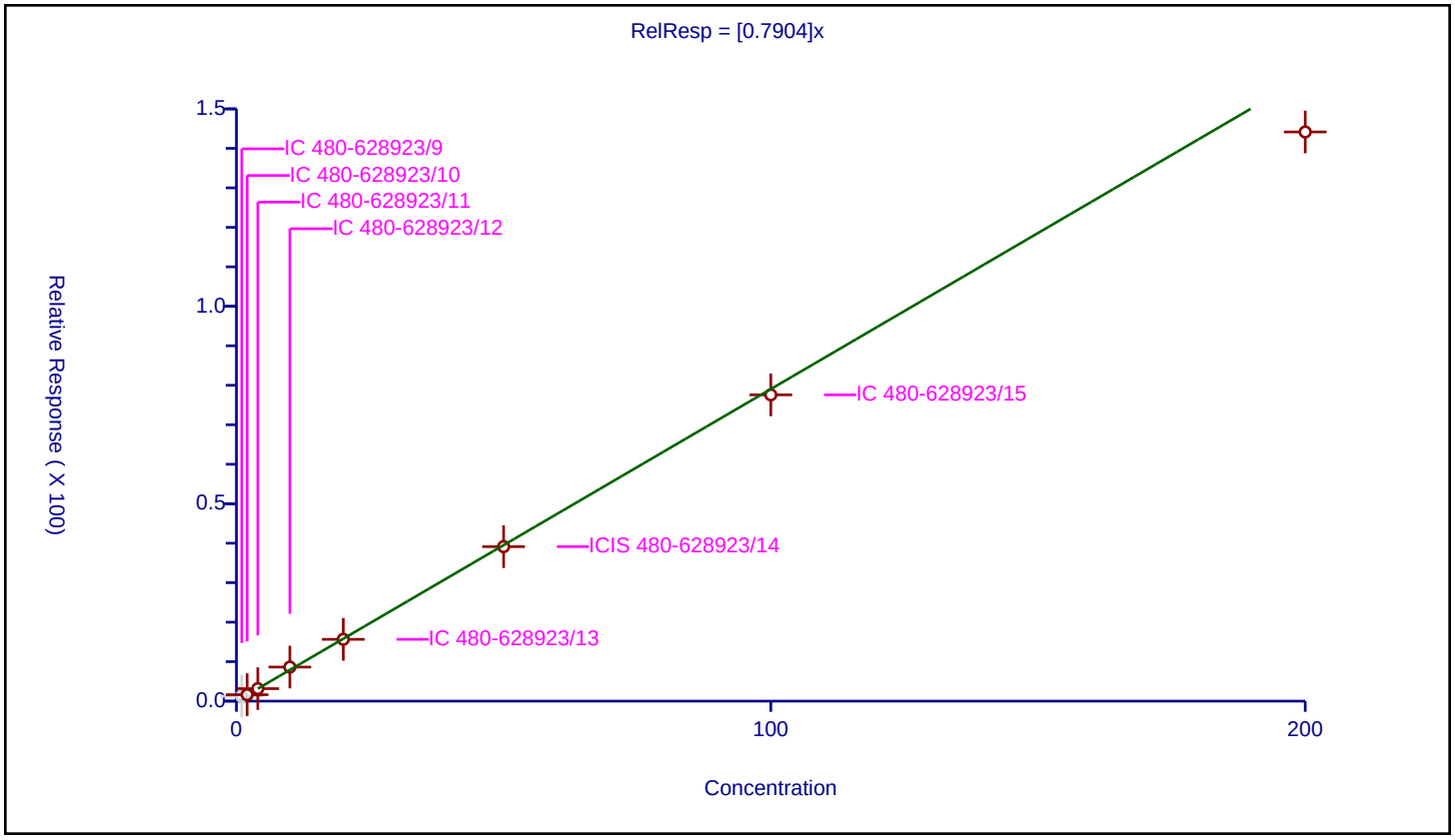
Curve Coefficients

Intercept:	0
Slope:	0.7904

Error Coefficients

Standard Error:	669000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	1.0	1.234915	25.0	233842.0	1.234915	N
2	IC 480-628923/10	2.0	1.631214	25.0	216296.0	0.815607	Y
3	IC 480-628923/11	4.0	3.168691	25.0	228667.0	0.792173	Y
4	IC 480-628923/12	10.0	8.628457	25.0	219089.0	0.862846	Y
5	IC 480-628923/13	20.0	15.656419	25.0	220705.0	0.782821	Y
6	ICIS 480-628923/14	50.0	39.130576	25.0	223510.0	0.782612	Y
7	IC 480-628923/15	100.0	77.580018	25.0	232760.0	0.7758	Y
8	IC 480-628923/16	200.0	144.160044	25.0	245995.0	0.7208	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

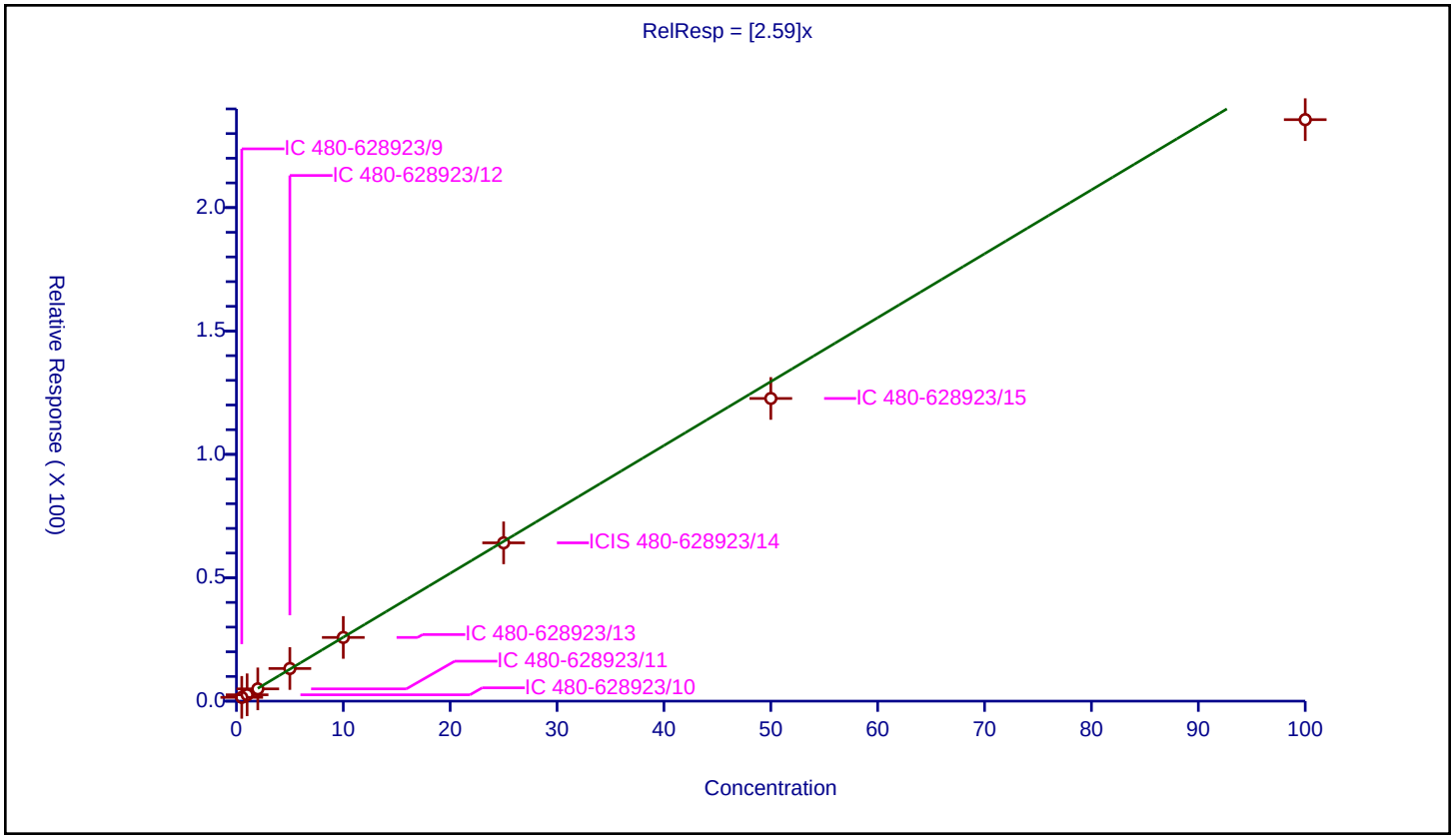
Curve Coefficients

Intercept:	0
Slope:	2.59

Error Coefficients

Standard Error:	1010000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	1.531376	25.0	233842.0	3.062752	Y
2	IC 480-628923/10	1.0	2.569858	25.0	216296.0	2.569858	Y
3	IC 480-628923/11	2.0	4.969016	25.0	228667.0	2.484508	Y
4	IC 480-628923/12	5.0	13.220312	25.0	219089.0	2.644062	Y
5	IC 480-628923/13	10.0	25.815795	25.0	220705.0	2.581579	Y
6	ICIS 480-628923/14	25.0	64.147689	25.0	223510.0	2.565908	Y
7	IC 480-628923/15	50.0	122.660358	25.0	232760.0	2.453207	Y
8	IC 480-628923/16	100.0	235.637919	25.0	245995.0	2.356379	Y



Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

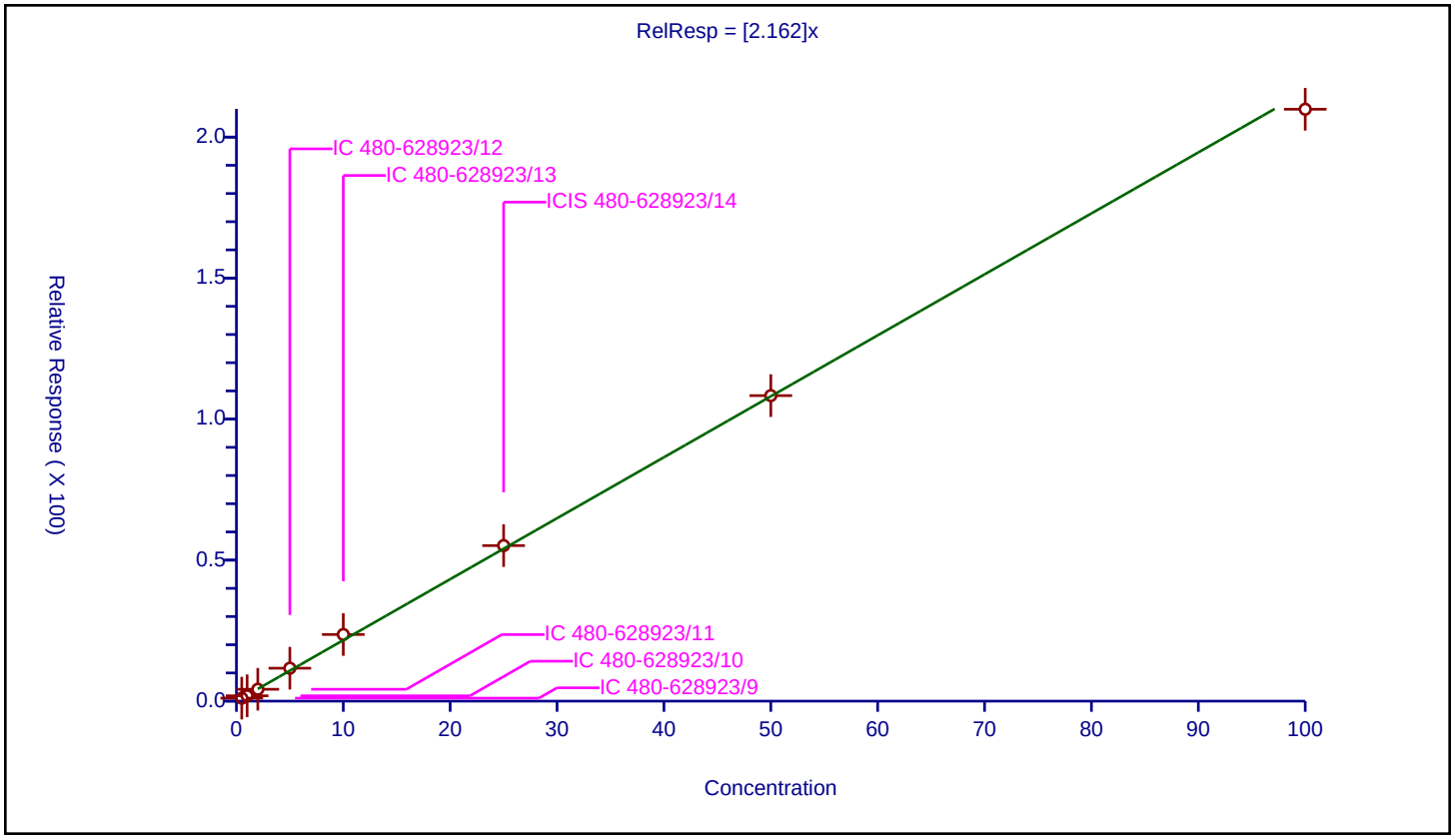
Curve Coefficients

Intercept:	0
Slope:	2.162

Error Coefficients

Standard Error:	893000
Relative Standard Error:	6.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	1.062149	25.0	233842.0	2.124298	Y
2	IC 480-628923/10	1.0	1.896013	25.0	216296.0	1.896013	Y
3	IC 480-628923/11	2.0	4.206991	25.0	228667.0	2.103495	Y
4	IC 480-628923/12	5.0	11.673338	25.0	219089.0	2.334668	Y
5	IC 480-628923/13	10.0	23.635849	25.0	220705.0	2.363585	Y
6	ICIS 480-628923/14	25.0	55.160843	25.0	223510.0	2.206434	Y
7	IC 480-628923/15	50.0	108.332295	25.0	232760.0	2.166646	Y
8	IC 480-628923/16	100.0	209.875099	25.0	245995.0	2.098751	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

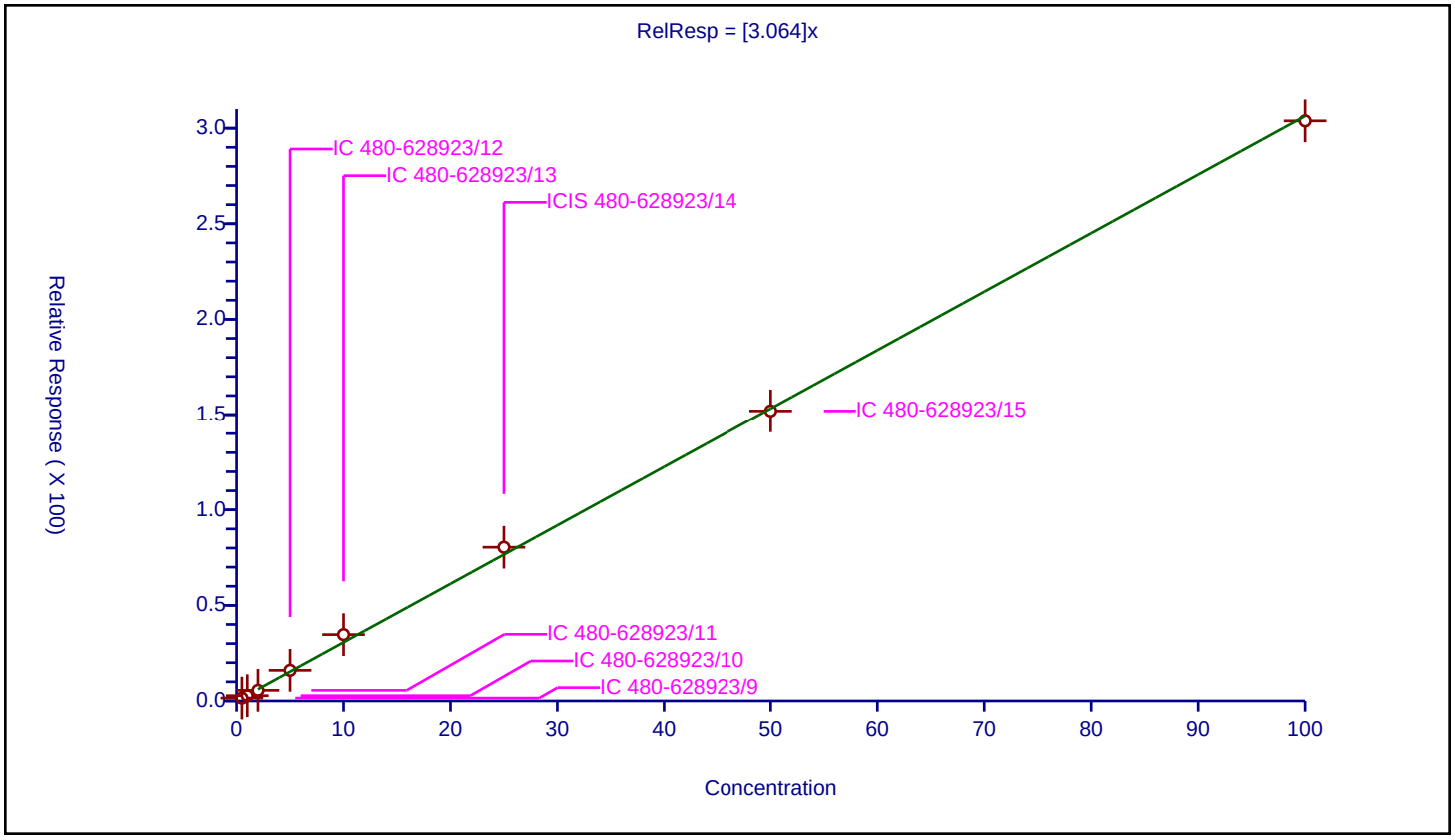
Curve Coefficients

Intercept:	0
Slope:	3.064

Error Coefficients

Standard Error:	1290000
Relative Standard Error:	7.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	1.509673	25.0	233842.0	3.019346	Y
2	IC 480-628923/10	1.0	2.749357	25.0	216296.0	2.749357	Y
3	IC 480-628923/11	2.0	5.550648	25.0	228667.0	2.775324	Y
4	IC 480-628923/12	5.0	16.011986	25.0	219089.0	3.202397	Y
5	IC 480-628923/13	10.0	34.687819	25.0	220705.0	3.468782	Y
6	ICIS 480-628923/14	25.0	80.421458	25.0	223510.0	3.216858	Y
7	IC 480-628923/15	50.0	151.942988	25.0	232760.0	3.03886	Y
8	IC 480-628923/16	100.0	303.835749	25.0	245995.0	3.038357	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

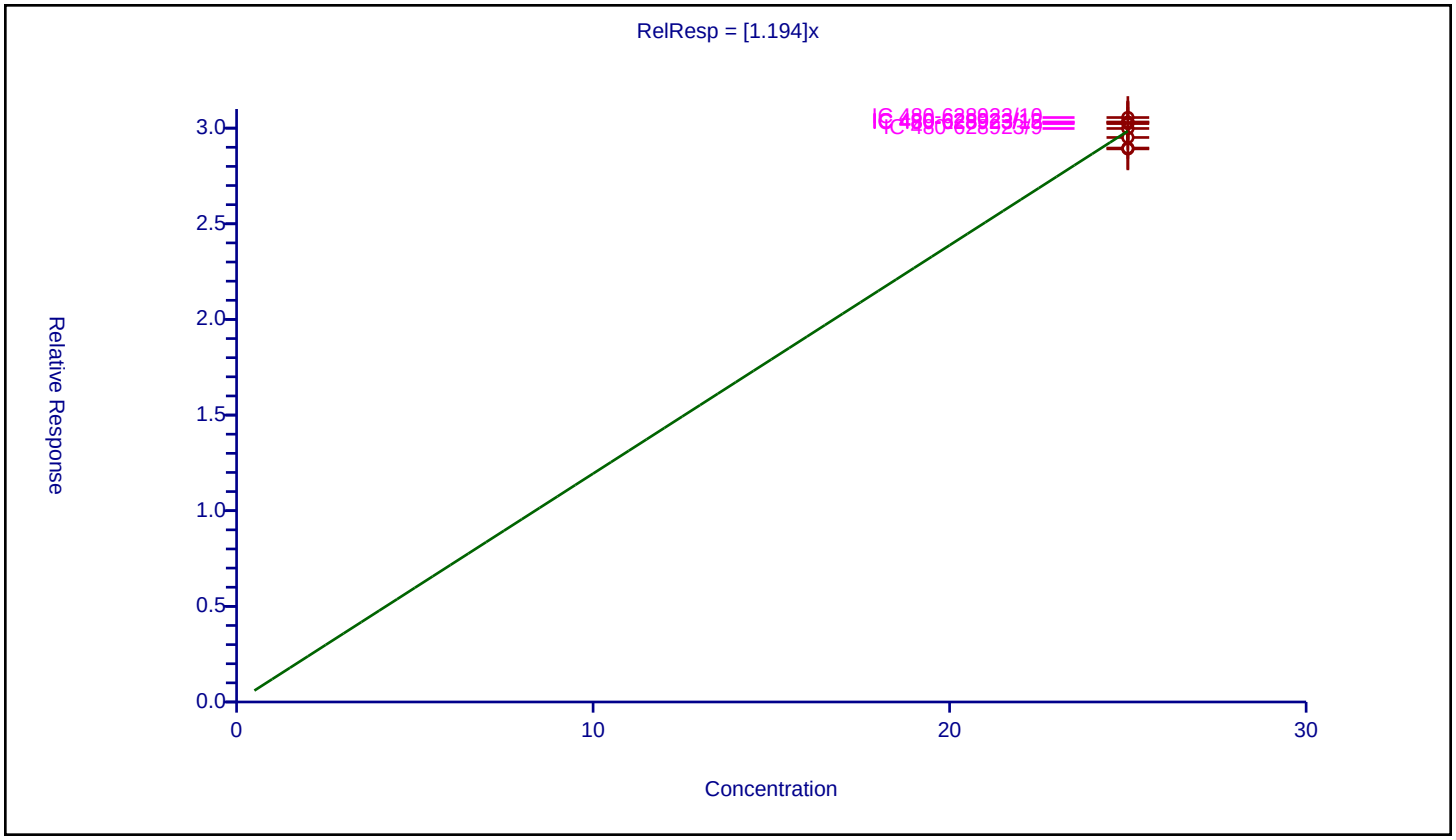
Curve Coefficients

Intercept:	0
Slope:	1.194

Error Coefficients

Standard Error:	290000
Relative Standard Error:	2.1
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	25.0	29.982424	25.0	233842.0	1.199297	Y
2	IC 480-628923/10	25.0	30.555697	25.0	216296.0	1.222228	Y
3	IC 480-628923/11	25.0	28.959469	25.0	228667.0	1.158379	Y
4	IC 480-628923/12	25.0	30.314507	25.0	219089.0	1.21258	Y
5	IC 480-628923/13	25.0	30.312408	25.0	220705.0	1.212496	Y
6	ICIS 480-628923/14	25.0	29.513109	25.0	223510.0	1.180524	Y
7	IC 480-628923/15	25.0	30.236832	25.0	232760.0	1.209473	Y
8	IC 480-628923/16	25.0	28.915628	25.0	245995.0	1.156625	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

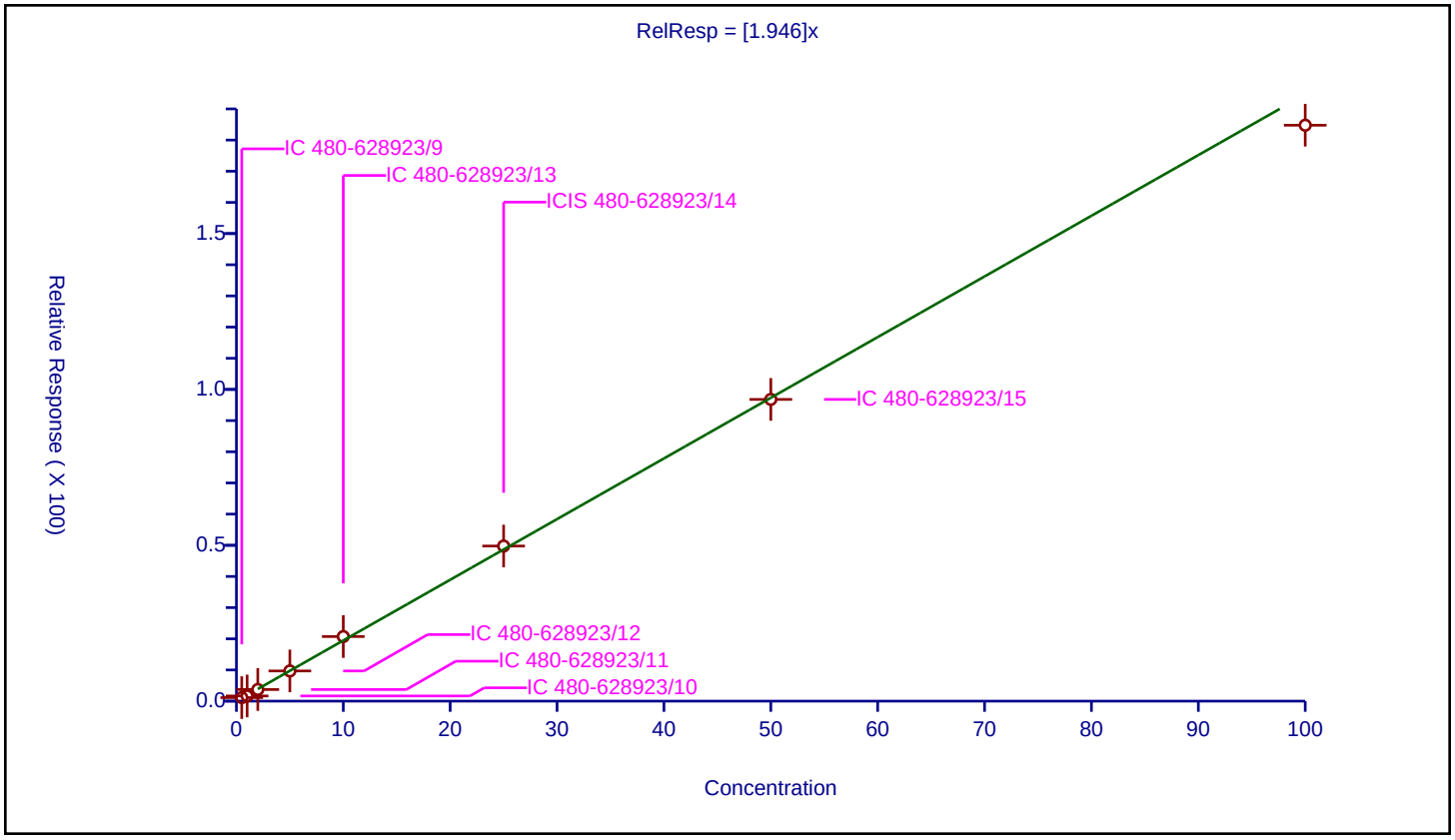
Curve Coefficients

Intercept:	0
Slope:	1.946

Error Coefficients

Standard Error:	789000
Relative Standard Error:	9.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	1.131961	25.0	233842.0	2.263922	Y
2	IC 480-628923/10	1.0	1.658491	25.0	216296.0	1.658491	Y
3	IC 480-628923/11	2.0	3.731409	25.0	228667.0	1.865704	Y
4	IC 480-628923/12	5.0	9.682024	25.0	219089.0	1.936405	Y
5	IC 480-628923/13	10.0	20.722797	25.0	220705.0	2.07228	Y
6	ICIS 480-628923/14	25.0	49.763098	25.0	223510.0	1.990524	Y
7	IC 480-628923/15	50.0	96.792512	25.0	232760.0	1.93585	Y
8	IC 480-628923/16	100.0	184.760158	25.0	245995.0	1.847602	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

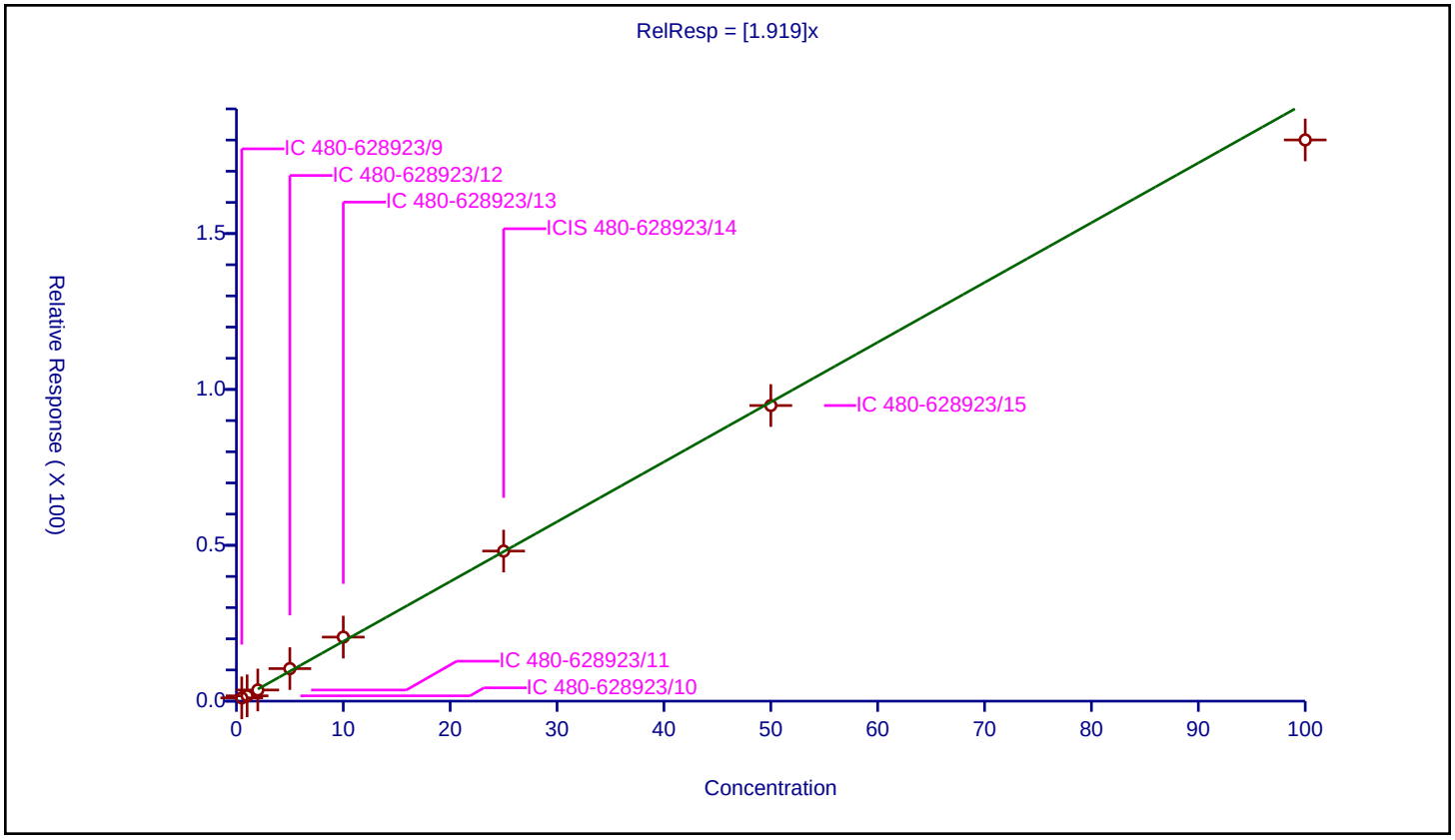
Curve Coefficients

Intercept:	0
Slope:	1.919

Error Coefficients

Standard Error:	769000
Relative Standard Error:	7.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	1.04344	25.0	233842.0	2.086879	Y
2	IC 480-628923/10	1.0	1.708538	25.0	216296.0	1.708538	Y
3	IC 480-628923/11	2.0	3.57474	25.0	228667.0	1.78737	Y
4	IC 480-628923/12	5.0	10.441191	25.0	219089.0	2.088238	Y
5	IC 480-628923/13	10.0	20.543939	25.0	220705.0	2.054394	Y
6	ICIS 480-628923/14	25.0	48.140128	25.0	223510.0	1.925605	Y
7	IC 480-628923/15	50.0	94.840716	25.0	232760.0	1.896814	Y
8	IC 480-628923/16	100.0	180.033436	25.0	245995.0	1.800334	Y



Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

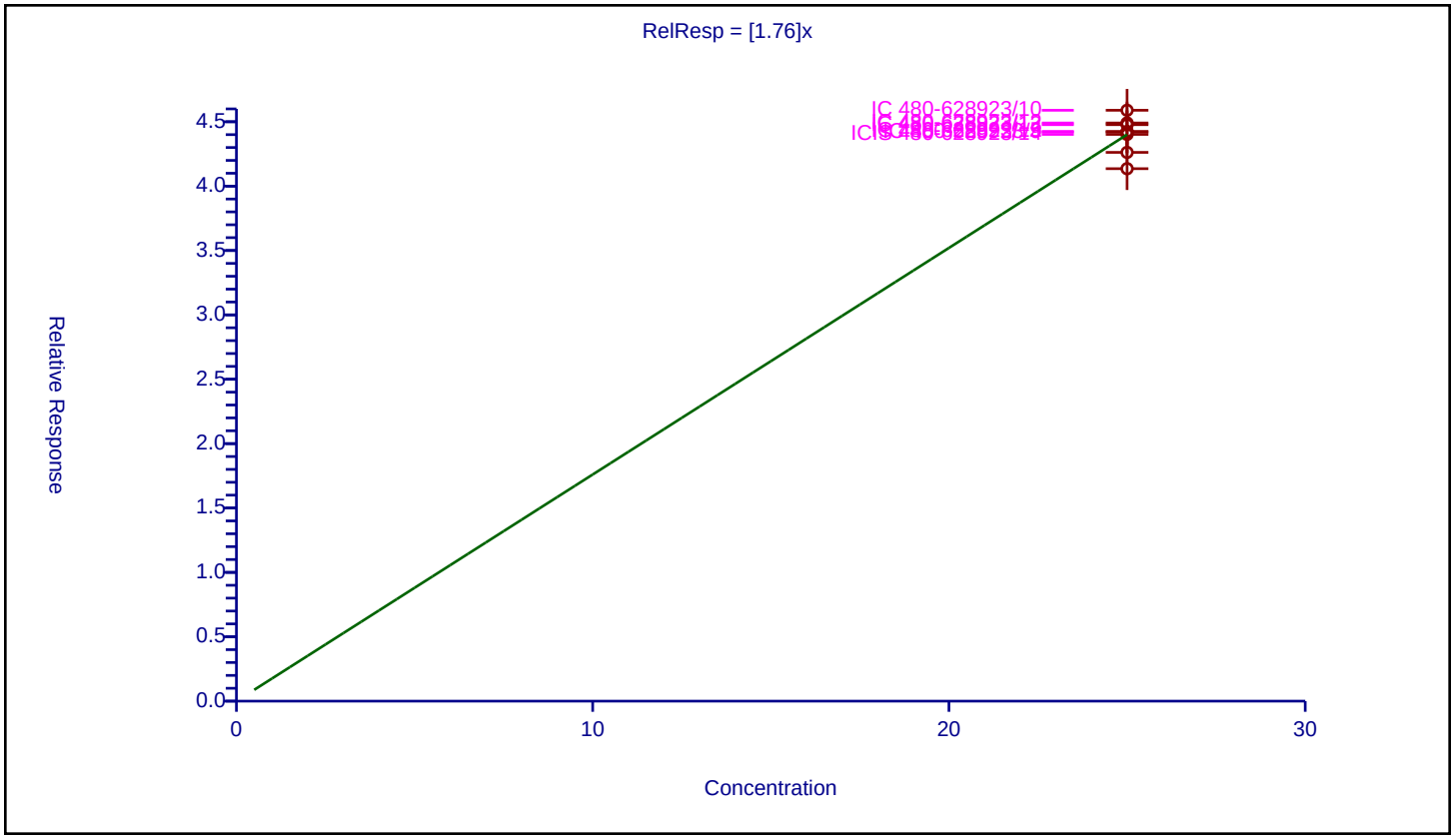
Curve Coefficients

Intercept:	0
Slope:	1.76

Error Coefficients

Standard Error:	428000
Relative Standard Error:	3.2
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	25.0	44.202923	25.0	233842.0	1.768117	Y
2	IC 480-628923/10	25.0	45.892088	25.0	216296.0	1.835684	Y
3	IC 480-628923/11	25.0	42.621257	25.0	228667.0	1.70485	Y
4	IC 480-628923/12	25.0	44.905381	25.0	219089.0	1.796215	Y
5	IC 480-628923/13	25.0	44.773113	25.0	220705.0	1.790925	Y
6	ICIS 480-628923/14	25.0	44.018053	25.0	223510.0	1.760722	Y
7	IC 480-628923/15	25.0	44.24869	25.0	232760.0	1.769948	Y
8	IC 480-628923/16	25.0	41.35643	25.0	245995.0	1.654257	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

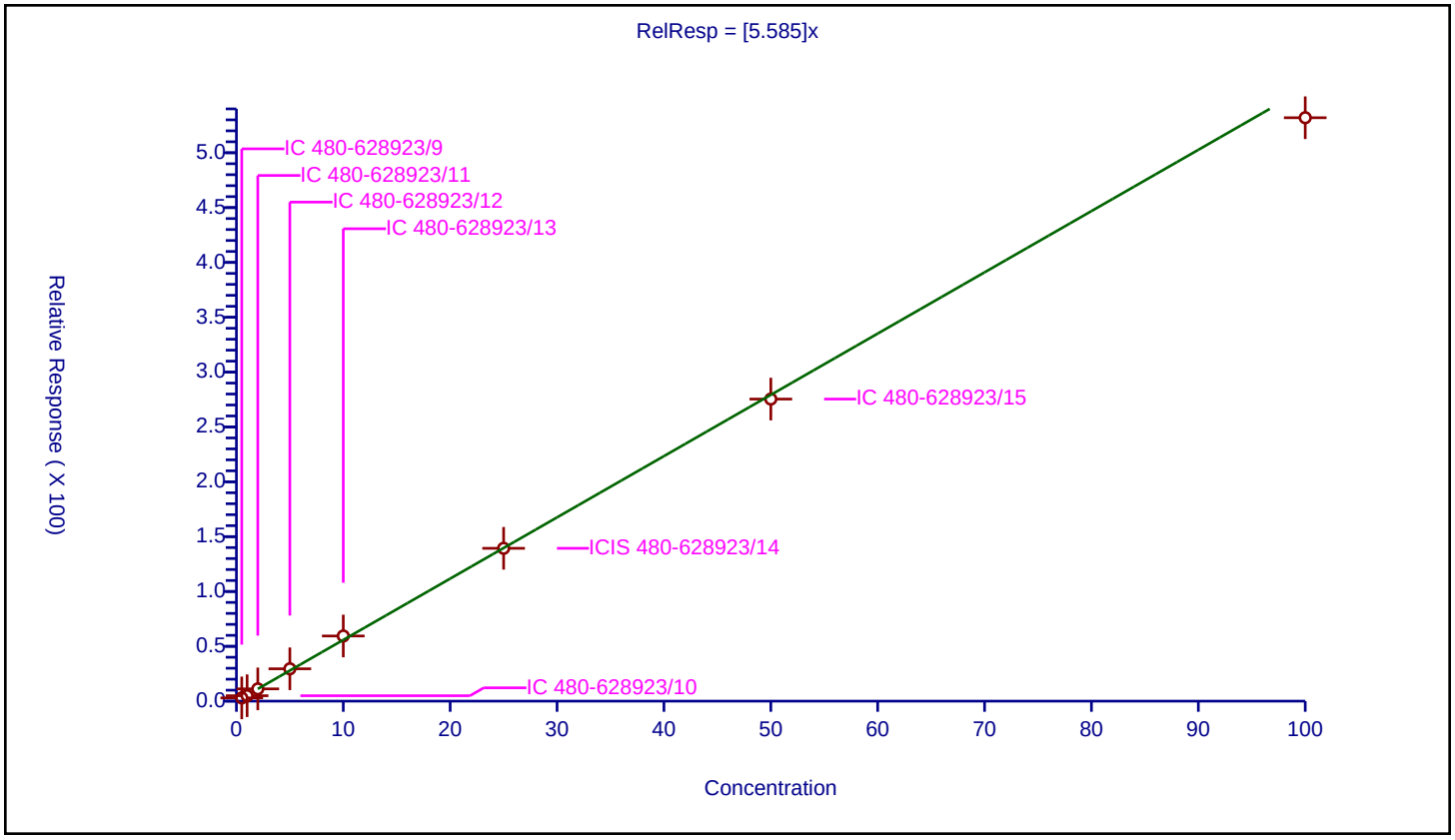
Curve Coefficients

Intercept:	0
Slope:	5.585

Error Coefficients

Standard Error:	2260000
Relative Standard Error:	6.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	2.957766	25.0	233842.0	5.915533	Y
2	IC 480-628923/10	1.0	4.935598	25.0	216296.0	4.935598	Y
3	IC 480-628923/11	2.0	11.18056	25.0	228667.0	5.59028	Y
4	IC 480-628923/12	5.0	29.492923	25.0	219089.0	5.898585	Y
5	IC 480-628923/13	10.0	59.40724	25.0	220705.0	5.940724	Y
6	ICIS 480-628923/14	25.0	139.350924	25.0	223510.0	5.574037	Y
7	IC 480-628923/15	50.0	275.428231	25.0	232760.0	5.508565	Y
8	IC 480-628923/16	100.0	531.942722	25.0	245995.0	5.319427	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

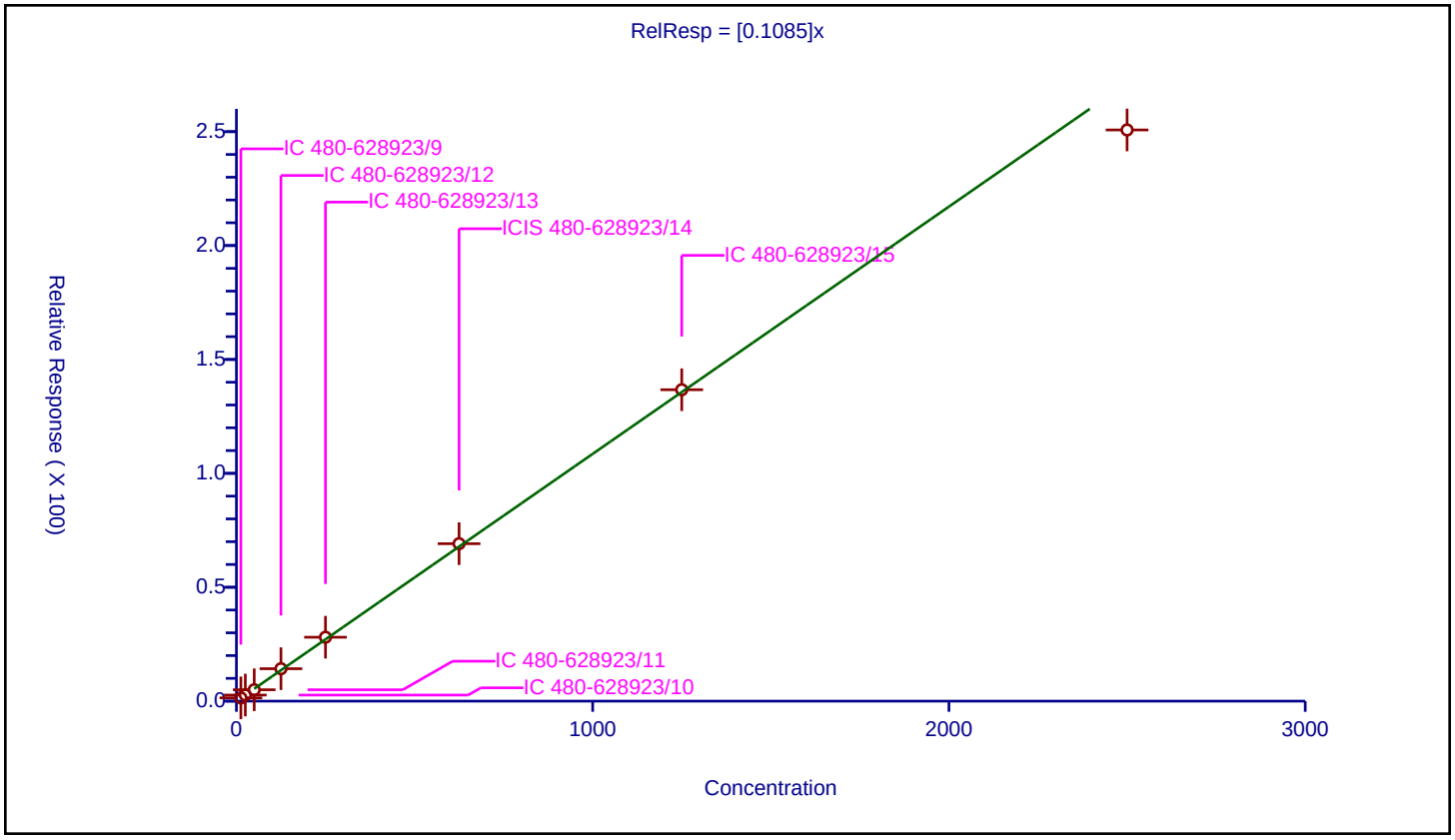
Curve Coefficients

Intercept:	0
Slope:	0.1085

Error Coefficients

Standard Error:	1080000
Relative Standard Error:	5.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	12.5	1.438151	25.0	233842.0	0.115052	Y
2	IC 480-628923/10	25.0	2.672842	25.0	216296.0	0.106914	Y
3	IC 480-628923/11	50.0	4.998863	25.0	228667.0	0.099977	Y
4	IC 480-628923/12	125.0	14.238392	25.0	219089.0	0.113907	Y
5	IC 480-628923/13	250.0	28.06042	25.0	220705.0	0.112242	Y
6	ICIS 480-628923/14	625.0	69.120397	25.0	223510.0	0.110593	Y
7	IC 480-628923/15	1250.0	136.709164	25.0	232760.0	0.109367	Y
8	IC 480-628923/16	2500.0	250.753979	25.0	245995.0	0.100302	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

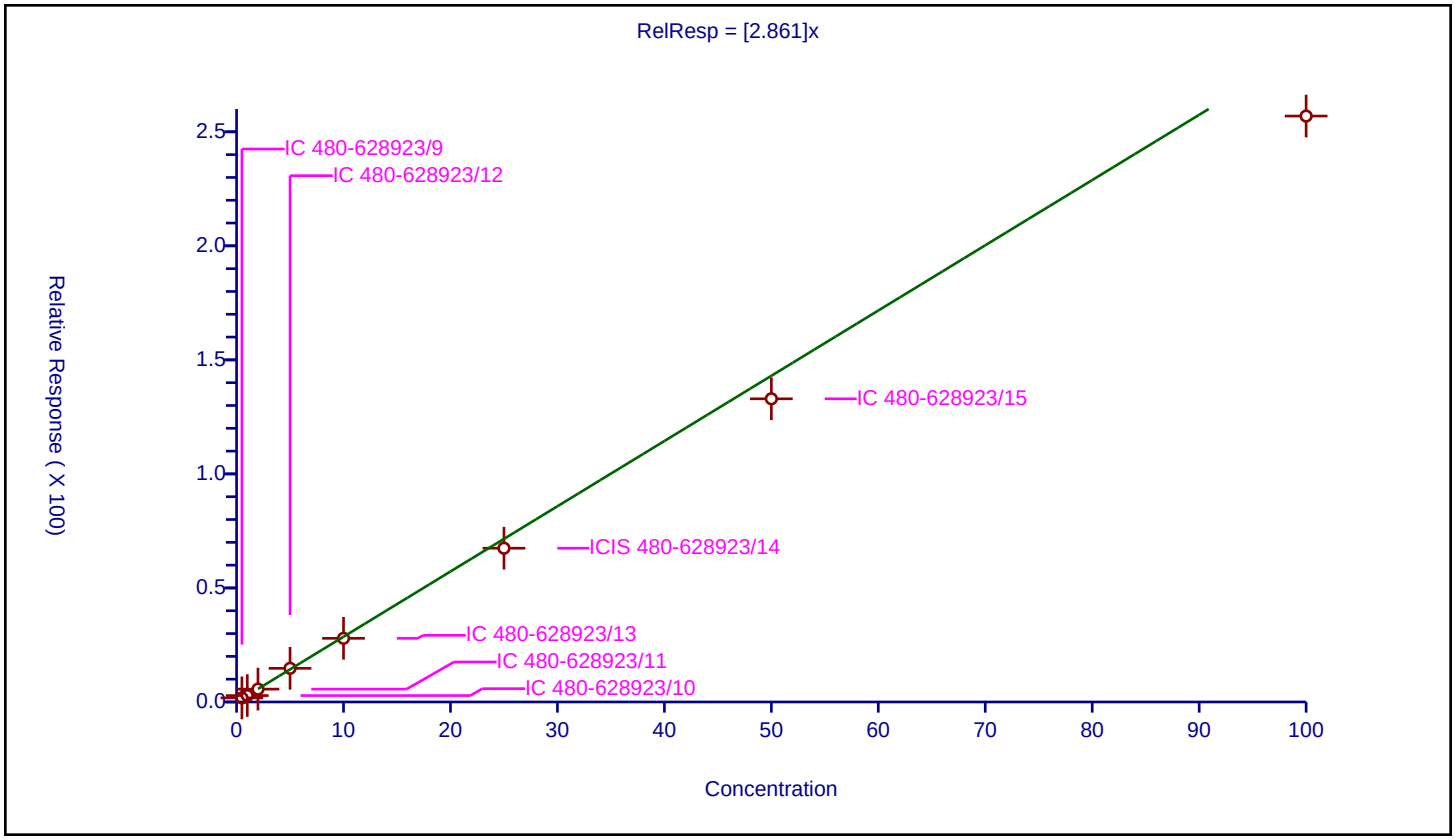
Curve Coefficients

Intercept:	0
Slope:	2.861

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	11.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	1.790204	25.0	233842.0	3.580409	Y
2	IC 480-628923/10	1.0	2.81547	25.0	216296.0	2.81547	Y
3	IC 480-628923/11	2.0	5.638658	25.0	228667.0	2.819329	Y
4	IC 480-628923/12	5.0	14.762722	25.0	219089.0	2.952544	Y
5	IC 480-628923/13	10.0	27.91543	25.0	220705.0	2.791543	Y
6	ICIS 480-628923/14	25.0	67.429645	25.0	223510.0	2.697186	Y
7	IC 480-628923/15	50.0	132.943053	25.0	232760.0	2.658861	Y
8	IC 480-628923/16	100.0	256.918332	25.0	245995.0	2.569183	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

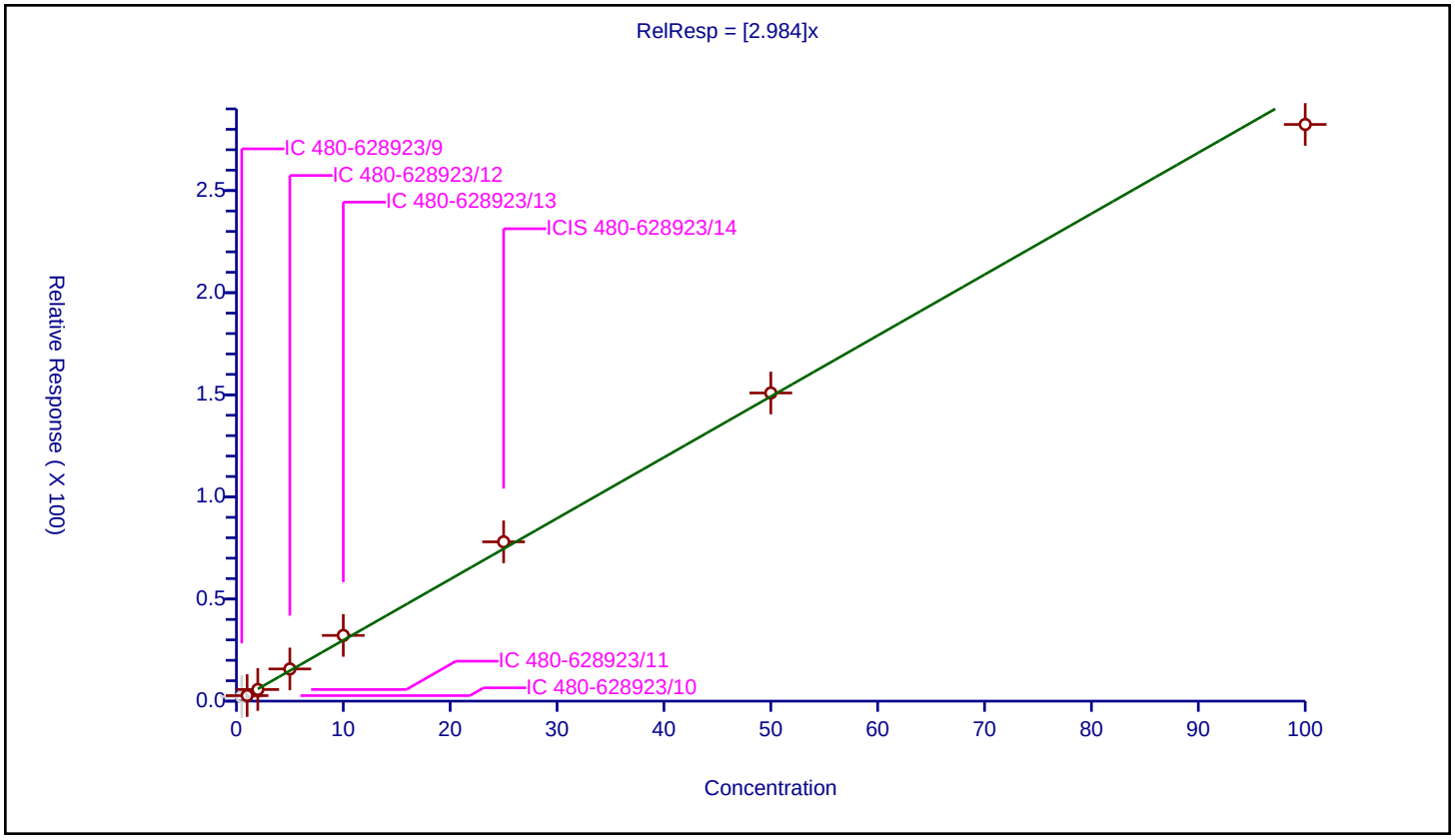
Curve Coefficients

Intercept:	0
Slope:	2.984

Error Coefficients

Standard Error:	1310000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	2.18855	25.0	233842.0	4.377101	N
2	IC 480-628923/10	1.0	2.707054	25.0	216296.0	2.707054	Y
3	IC 480-628923/11	2.0	5.694197	25.0	228667.0	2.847099	Y
4	IC 480-628923/12	5.0	15.759235	25.0	219089.0	3.151847	Y
5	IC 480-628923/13	10.0	32.177341	25.0	220705.0	3.217734	Y
6	ICIS 480-628923/14	25.0	78.009038	25.0	223510.0	3.120362	Y
7	IC 480-628923/15	50.0	150.89545	25.0	232760.0	3.017909	Y
8	IC 480-628923/16	100.0	282.385211	25.0	245995.0	2.823852	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

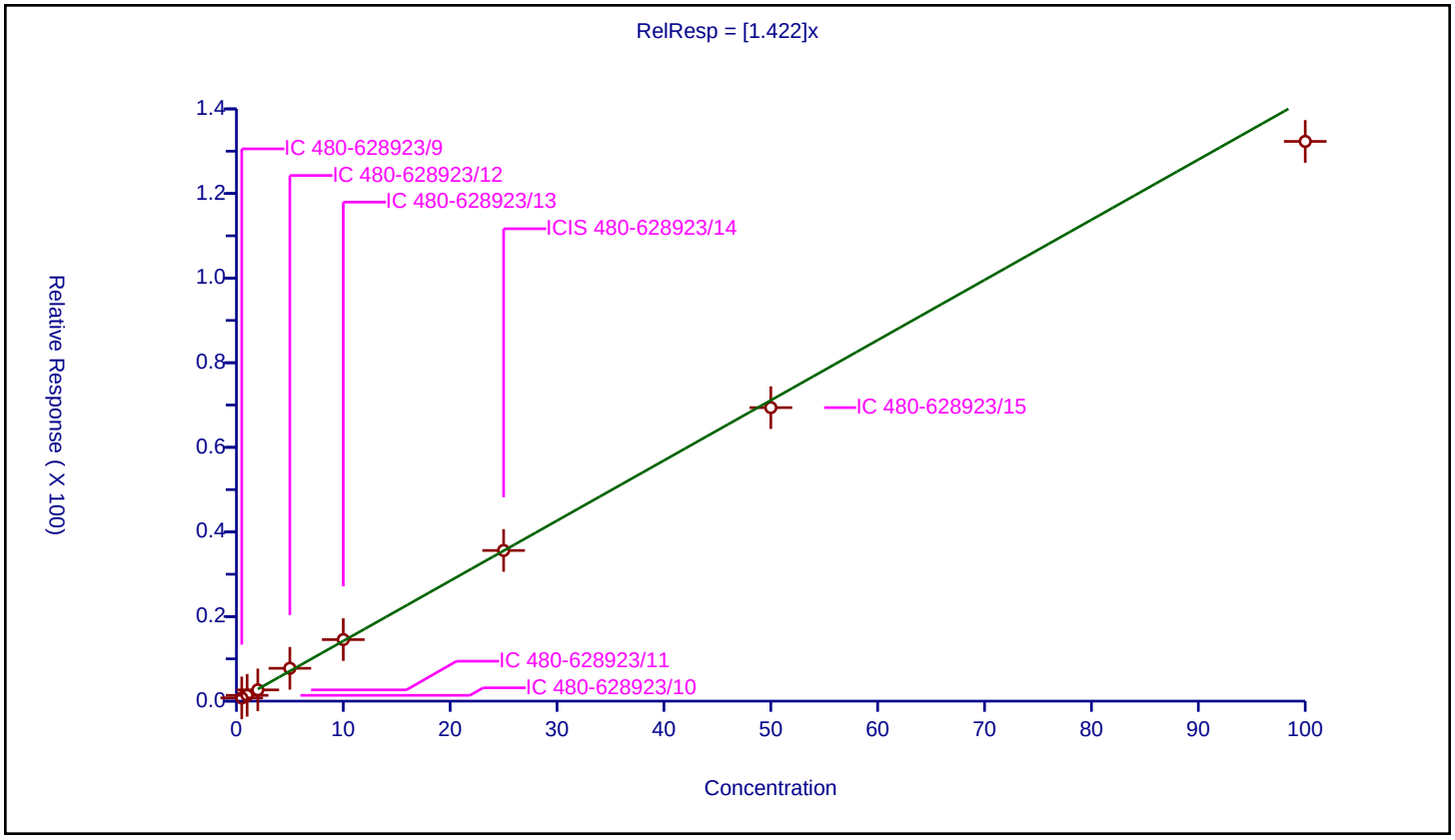
Curve Coefficients

Intercept:	0
Slope:	1.422

Error Coefficients

Standard Error:	565000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.766222	25.0	233842.0	1.532445	Y
2	IC 480-628923/10	1.0	1.374043	25.0	216296.0	1.374043	Y
3	IC 480-628923/11	2.0	2.657248	25.0	228667.0	1.328624	Y
4	IC 480-628923/12	5.0	7.767163	25.0	219089.0	1.553433	Y
5	IC 480-628923/13	10.0	14.543735	25.0	220705.0	1.454373	Y
6	ICIS 480-628923/14	25.0	35.619995	25.0	223510.0	1.4248	Y
7	IC 480-628923/15	50.0	69.383807	25.0	232760.0	1.387676	Y
8	IC 480-628923/16	100.0	132.315291	25.0	245995.0	1.323153	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

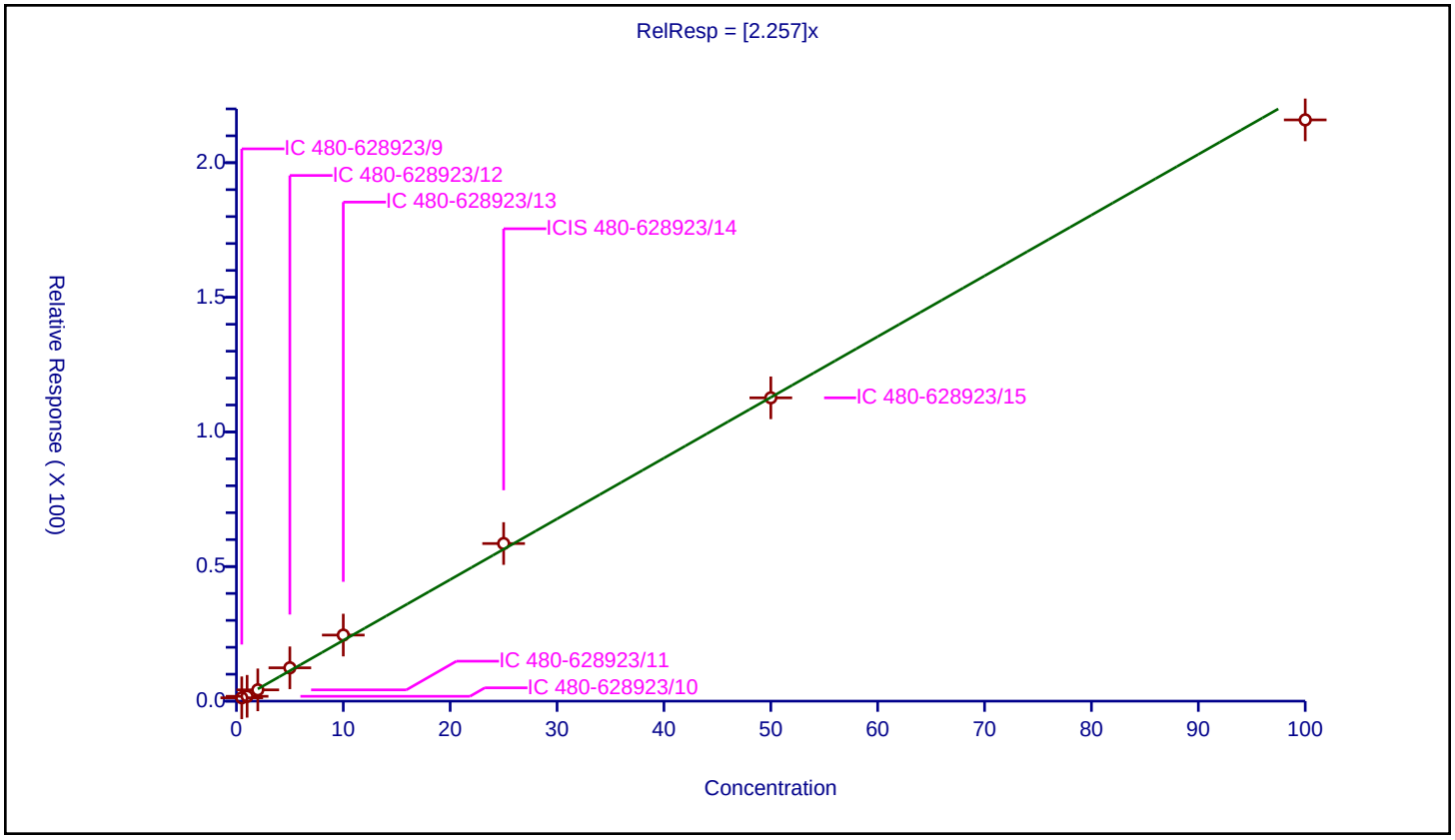
Curve Coefficients

Intercept:	0
Slope:	2.257

Error Coefficients

Standard Error:	922000
Relative Standard Error:	10.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	1.240902	25.0	233842.0	2.481804	Y
2	IC 480-628923/10	1.0	1.793145	25.0	216296.0	1.793145	Y
3	IC 480-628923/11	2.0	4.190592	25.0	228667.0	2.095296	Y
4	IC 480-628923/12	5.0	12.378189	25.0	219089.0	2.475638	Y
5	IC 480-628923/13	10.0	24.545887	25.0	220705.0	2.454589	Y
6	ICIS 480-628923/14	25.0	58.540893	25.0	223510.0	2.341636	Y
7	IC 480-628923/15	50.0	112.674643	25.0	232760.0	2.253493	Y
8	IC 480-628923/16	100.0	215.917092	25.0	245995.0	2.159171	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

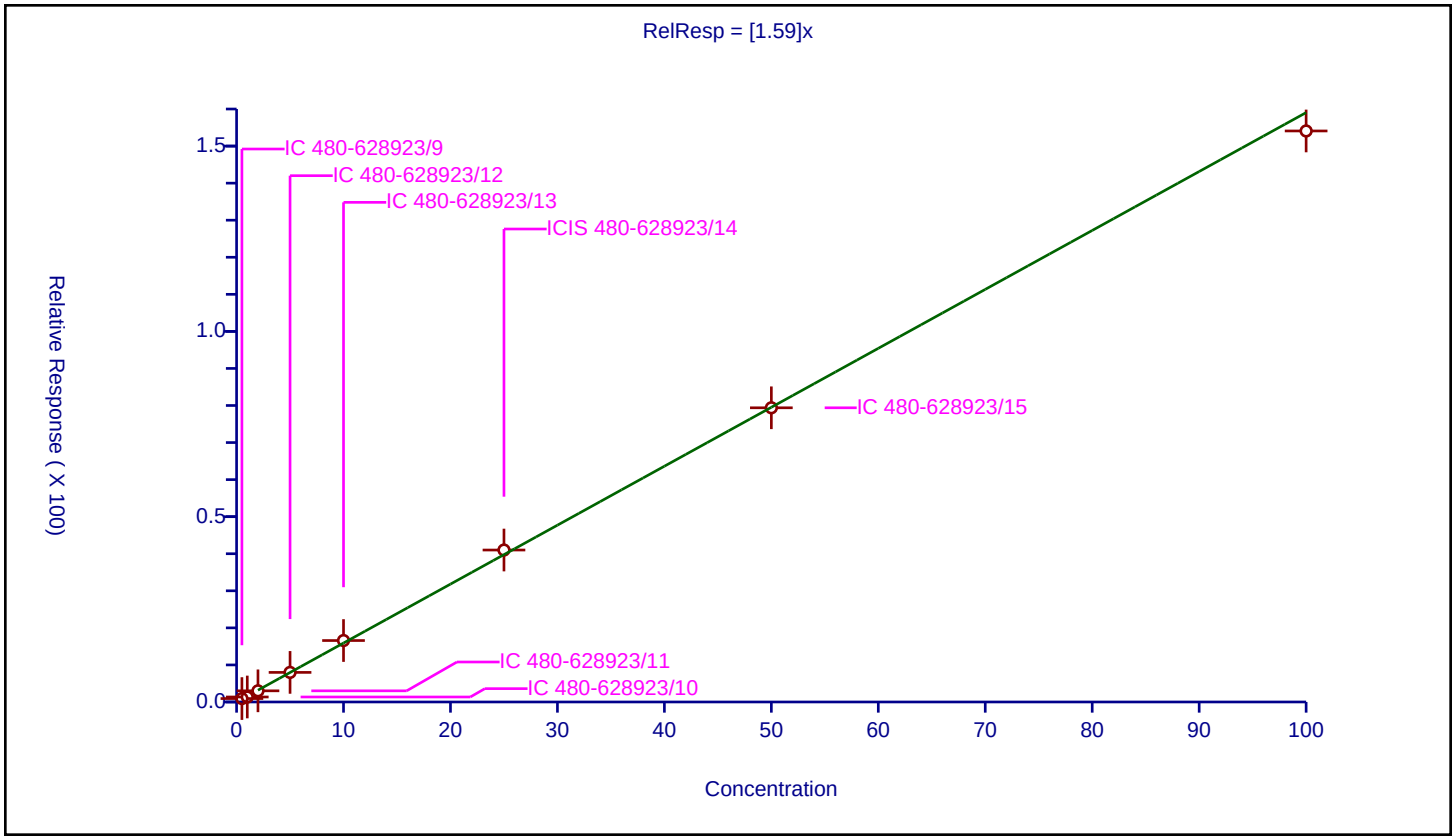
Curve Coefficients

Intercept:	0
Slope:	1.59

Error Coefficients

Standard Error:	655000
Relative Standard Error:	9.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.924021	25.0	233842.0	1.848043	Y
2	IC 480-628923/10	1.0	1.346997	25.0	216296.0	1.346997	Y
3	IC 480-628923/11	2.0	3.011038	25.0	228667.0	1.505519	Y
4	IC 480-628923/12	5.0	7.980547	25.0	219089.0	1.596109	Y
5	IC 480-628923/13	10.0	16.579144	25.0	220705.0	1.657914	Y
6	ICIS 480-628923/14	25.0	41.000962	25.0	223510.0	1.640038	Y
7	IC 480-628923/15	50.0	79.384881	25.0	232760.0	1.587698	Y
8	IC 480-628923/16	100.0	154.075184	25.0	245995.0	1.540752	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

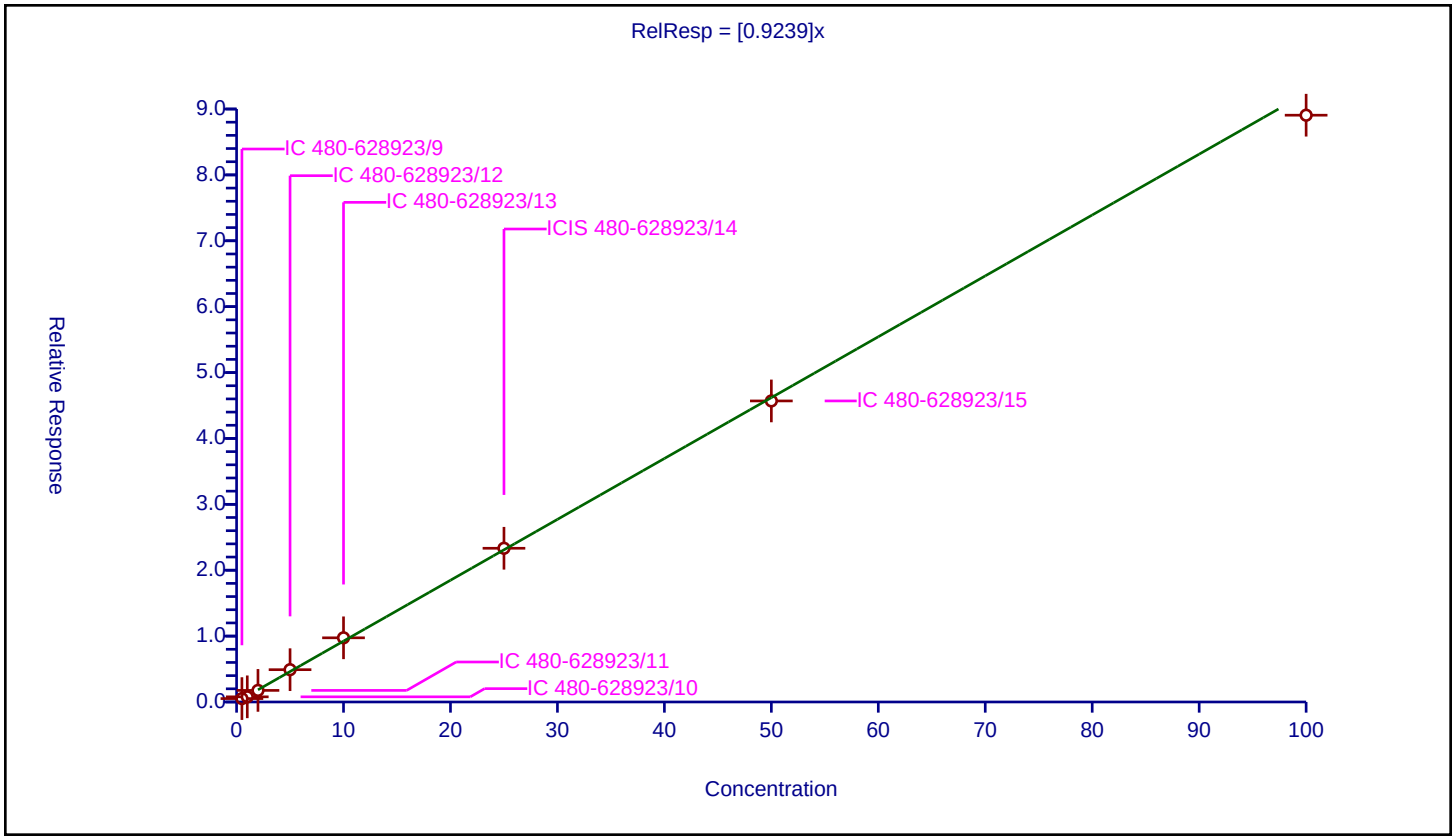
Curve Coefficients

Intercept:	0
Slope:	0.9239

Error Coefficients

Standard Error:	378000
Relative Standard Error:	8.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.51755	25.0	233842.0	1.035101	Y
2	IC 480-628923/10	1.0	0.784342	25.0	216296.0	0.784342	Y
3	IC 480-628923/11	2.0	1.758671	25.0	228667.0	0.879335	Y
4	IC 480-628923/12	5.0	4.901775	25.0	219089.0	0.980355	Y
5	IC 480-628923/13	10.0	9.74117	25.0	220705.0	0.974117	Y
6	ICIS 480-628923/14	25.0	23.332737	25.0	223510.0	0.933309	Y
7	IC 480-628923/15	50.0	45.692129	25.0	232760.0	0.913843	Y
8	IC 480-628923/16	100.0	89.059839	25.0	245995.0	0.890598	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

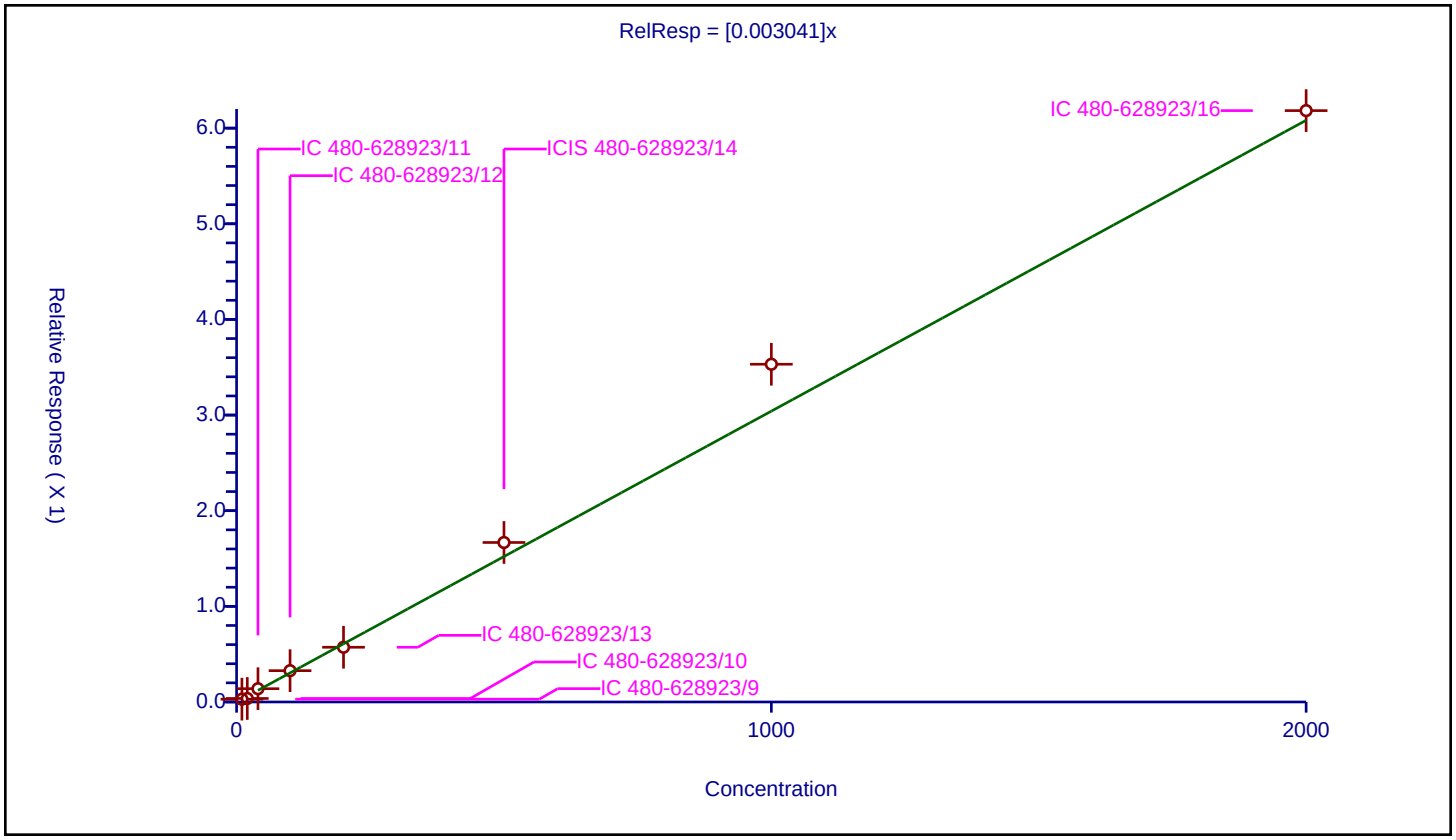
Curve Coefficients

Intercept:	0
Slope:	0.003041

Error Coefficients

Standard Error:	90600
Relative Standard Error:	17.9
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.962

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	10.0	0.029277	25.0	837698.0	0.002928	Y
2	IC 480-628923/10	20.0	0.036691	25.0	759719.0	0.001835	Y
3	IC 480-628923/11	40.0	0.138916	25.0	767729.0	0.003473	Y
4	IC 480-628923/12	100.0	0.32738	25.0	784257.0	0.003274	Y
5	IC 480-628923/13	200.0	0.57221	25.0	775677.0	0.002861	Y
6	ICIS 480-628923/14	500.0	1.667649	25.0	770261.0	0.003335	Y
7	IC 480-628923/15	1000.0	3.531494	25.0	816970.0	0.003531	Y
8	IC 480-628923/16	2000.0	6.183135	25.0	819839.0	0.003092	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

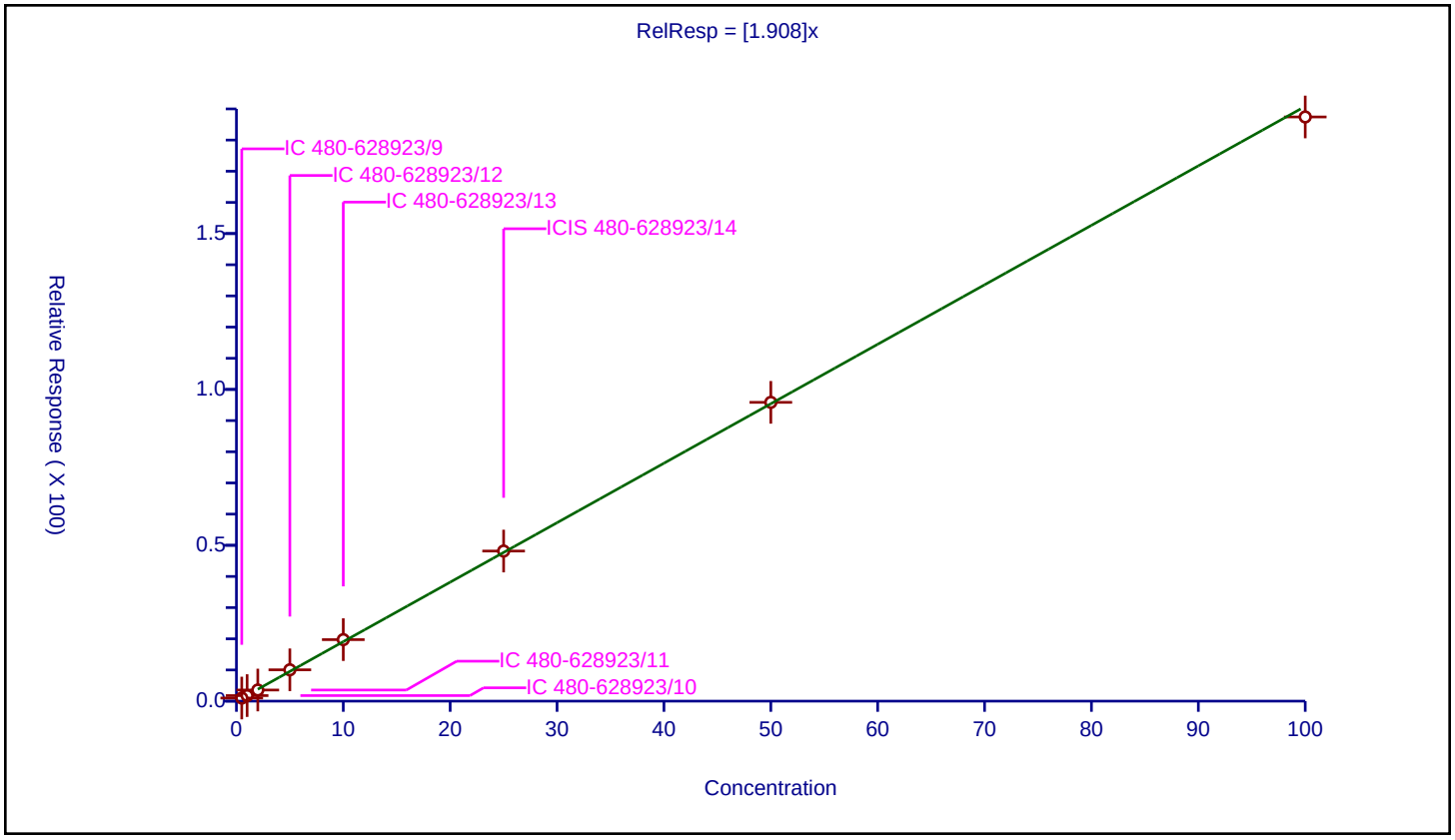
Curve Coefficients

Intercept:	0
Slope:	1.908

Error Coefficients

Standard Error:	795000
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.998644	25.0	233842.0	1.997289	Y
2	IC 480-628923/10	1.0	1.781355	25.0	216296.0	1.781355	Y
3	IC 480-628923/11	2.0	3.569273	25.0	228667.0	1.784637	Y
4	IC 480-628923/12	5.0	10.052992	25.0	219089.0	2.010598	Y
5	IC 480-628923/13	10.0	19.736073	25.0	220705.0	1.973607	Y
6	ICIS 480-628923/14	25.0	48.151313	25.0	223510.0	1.926053	Y
7	IC 480-628923/15	50.0	95.854958	25.0	232760.0	1.917099	Y
8	IC 480-628923/16	100.0	187.411533	25.0	245995.0	1.874115	Y



Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

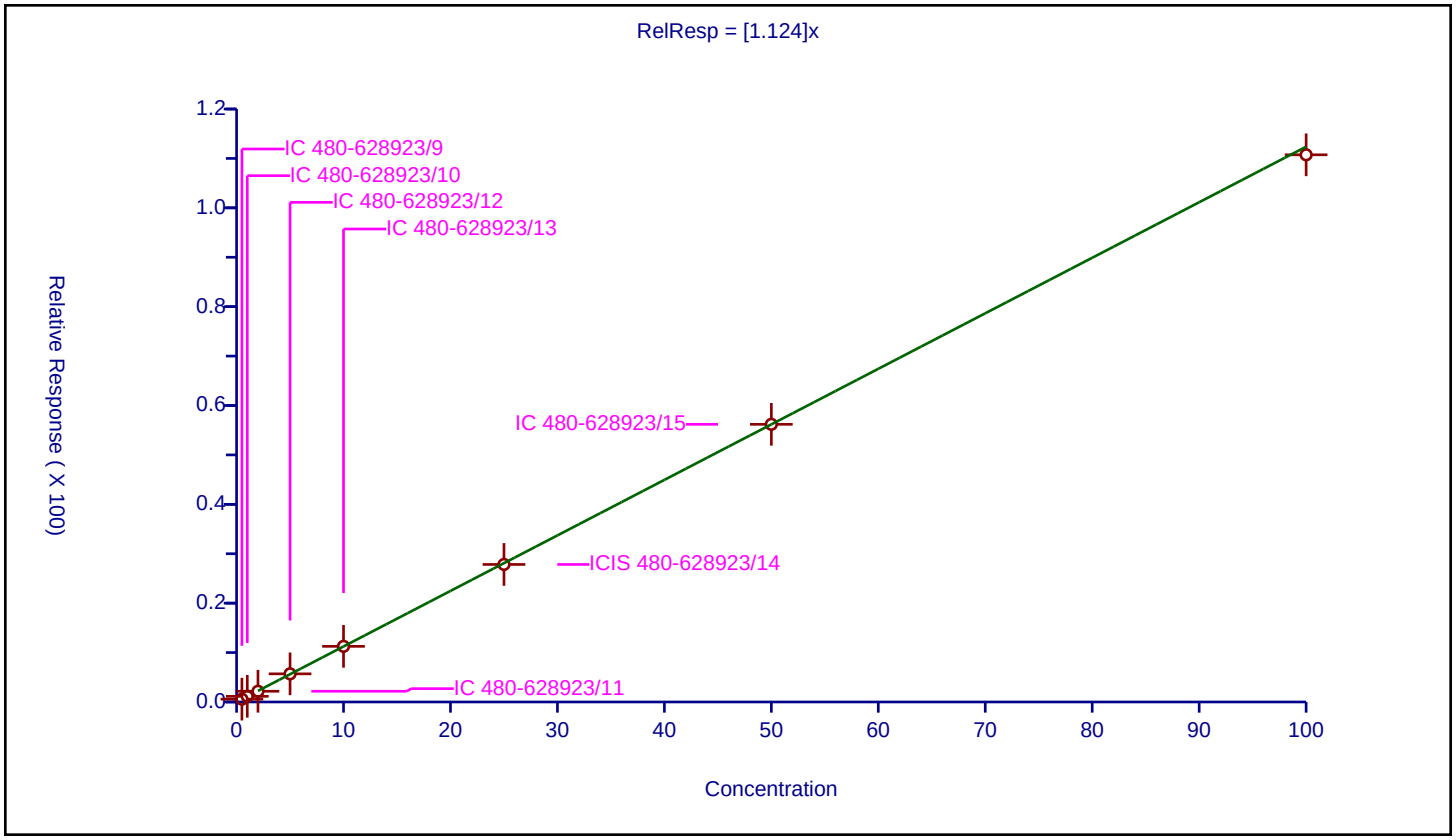
Curve Coefficients

Intercept:	0
Slope:	1.124

Error Coefficients

Standard Error:	468000
Relative Standard Error:	1.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.572716	25.0	233842.0	1.145432	Y
2	IC 480-628923/10	1.0	1.146461	25.0	216296.0	1.146461	Y
3	IC 480-628923/11	2.0	2.17456	25.0	228667.0	1.08728	Y
4	IC 480-628923/12	5.0	5.698597	25.0	219089.0	1.139719	Y
5	IC 480-628923/13	10.0	11.26028	25.0	220705.0	1.126028	Y
6	ICIS 480-628923/14	25.0	27.83041	25.0	223510.0	1.113216	Y
7	IC 480-628923/15	50.0	56.190604	25.0	232760.0	1.123812	Y
8	IC 480-628923/16	100.0	110.733043	25.0	245995.0	1.10733	Y



Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

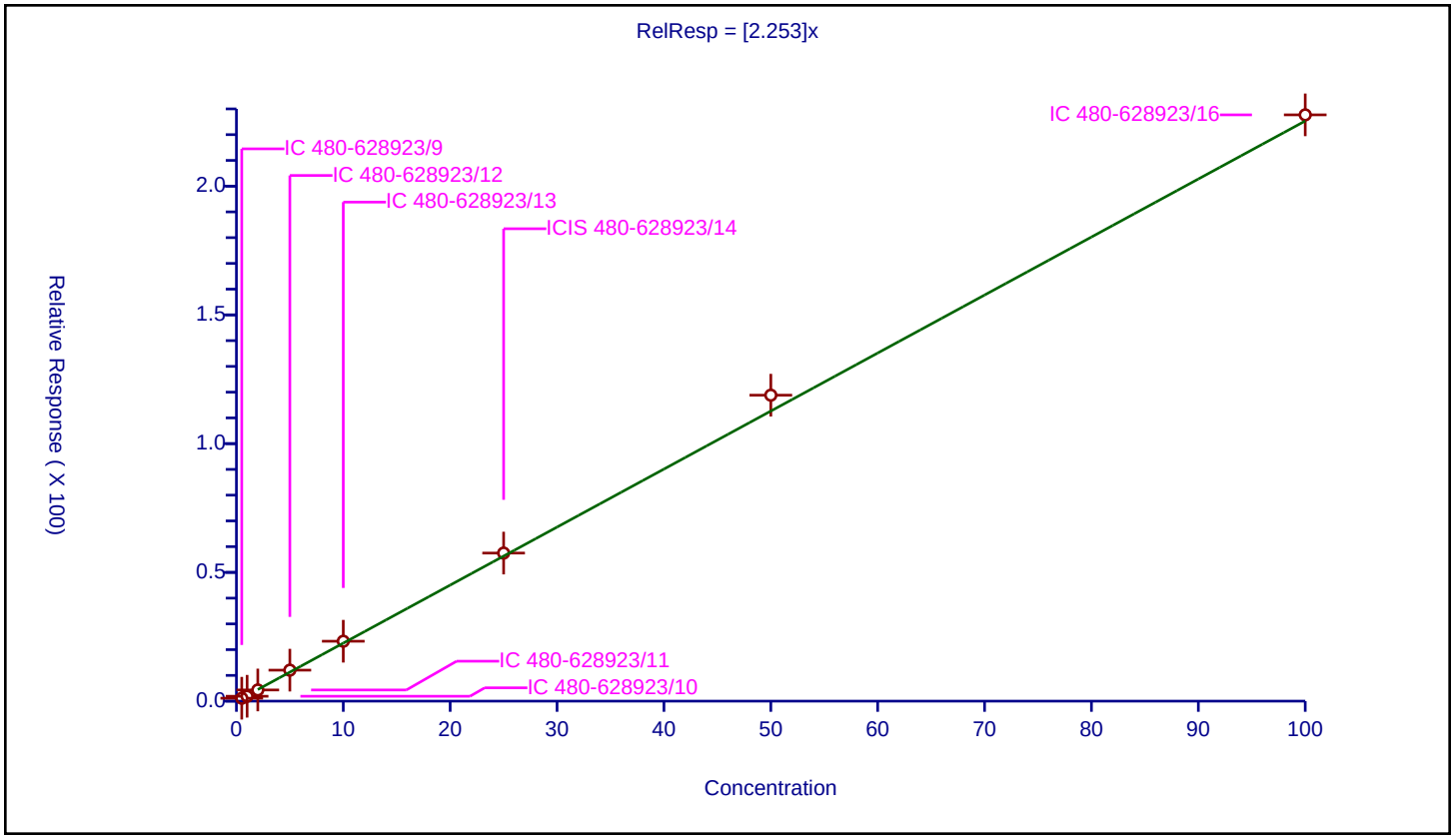
Curve Coefficients

Intercept:	0
Slope:	2.253

Error Coefficients

Standard Error:	968000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	1.135917	25.0	233842.0	2.271833	Y
2	IC 480-628923/10	1.0	1.895088	25.0	216296.0	1.895088	Y
3	IC 480-628923/11	2.0	4.340919	25.0	228667.0	2.17046	Y
4	IC 480-628923/12	5.0	12.034949	25.0	219089.0	2.40699	Y
5	IC 480-628923/13	10.0	23.263293	25.0	220705.0	2.326329	Y
6	ICIS 480-628923/14	25.0	57.505369	25.0	223510.0	2.300215	Y
7	IC 480-628923/15	50.0	118.822929	25.0	232760.0	2.376459	Y
8	IC 480-628923/16	100.0	227.681457	25.0	245995.0	2.276815	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

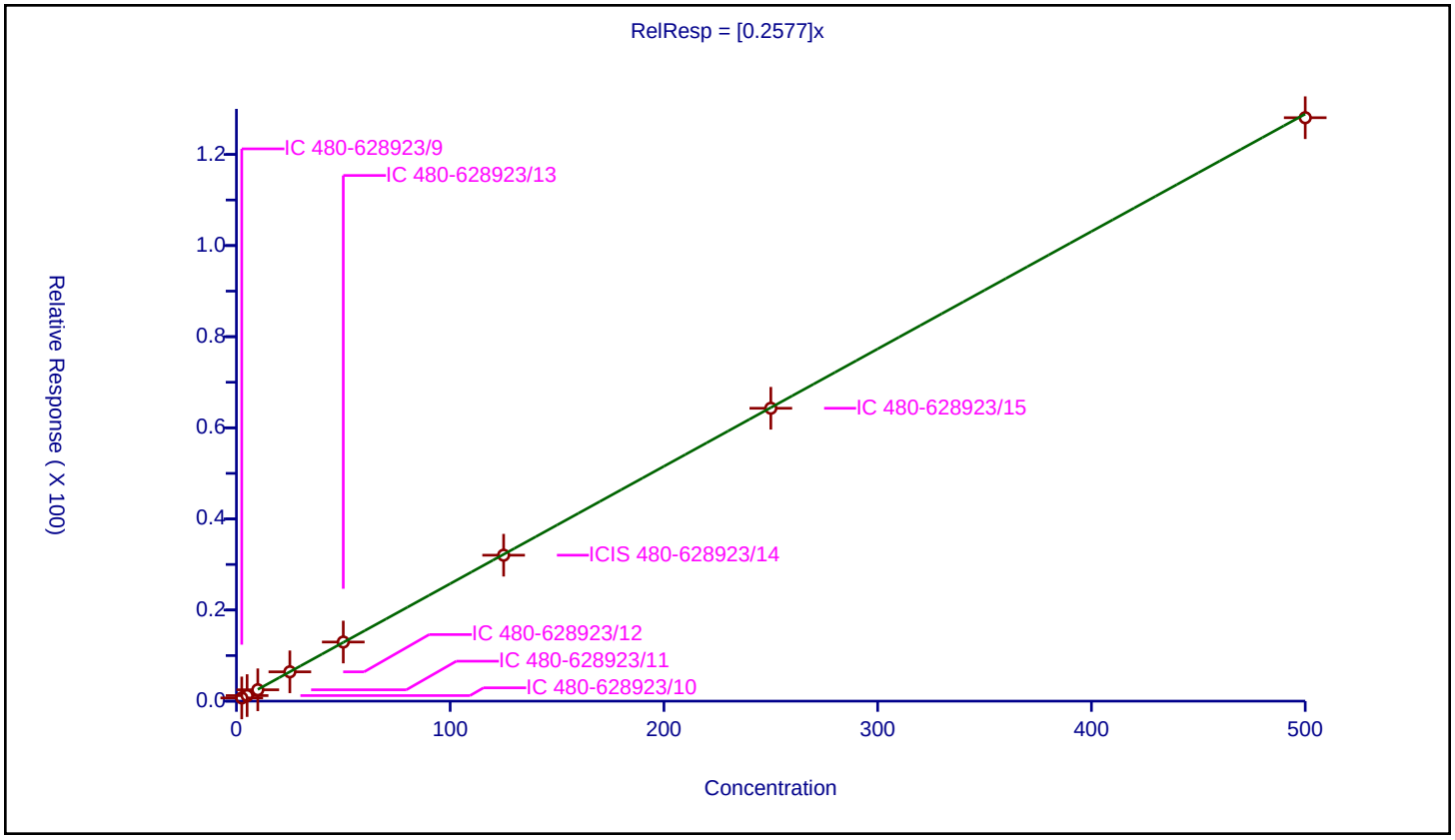
Curve Coefficients

Intercept:	0
Slope:	0.2577

Error Coefficients

Standard Error:	1820000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	2.5	0.704341	25.0	837698.0	0.281736	Y
2	IC 480-628923/10	5.0	1.220846	25.0	759719.0	0.244169	Y
3	IC 480-628923/11	10.0	2.494533	25.0	767729.0	0.249453	Y
4	IC 480-628923/12	25.0	6.434498	25.0	784257.0	0.25738	Y
5	IC 480-628923/13	50.0	12.977696	25.0	775677.0	0.259554	Y
6	ICIS 480-628923/14	125.0	32.035602	25.0	770261.0	0.256285	Y
7	IC 480-628923/15	250.0	64.289417	25.0	816970.0	0.257158	Y
8	IC 480-628923/16	500.0	128.061943	25.0	819839.0	0.256124	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

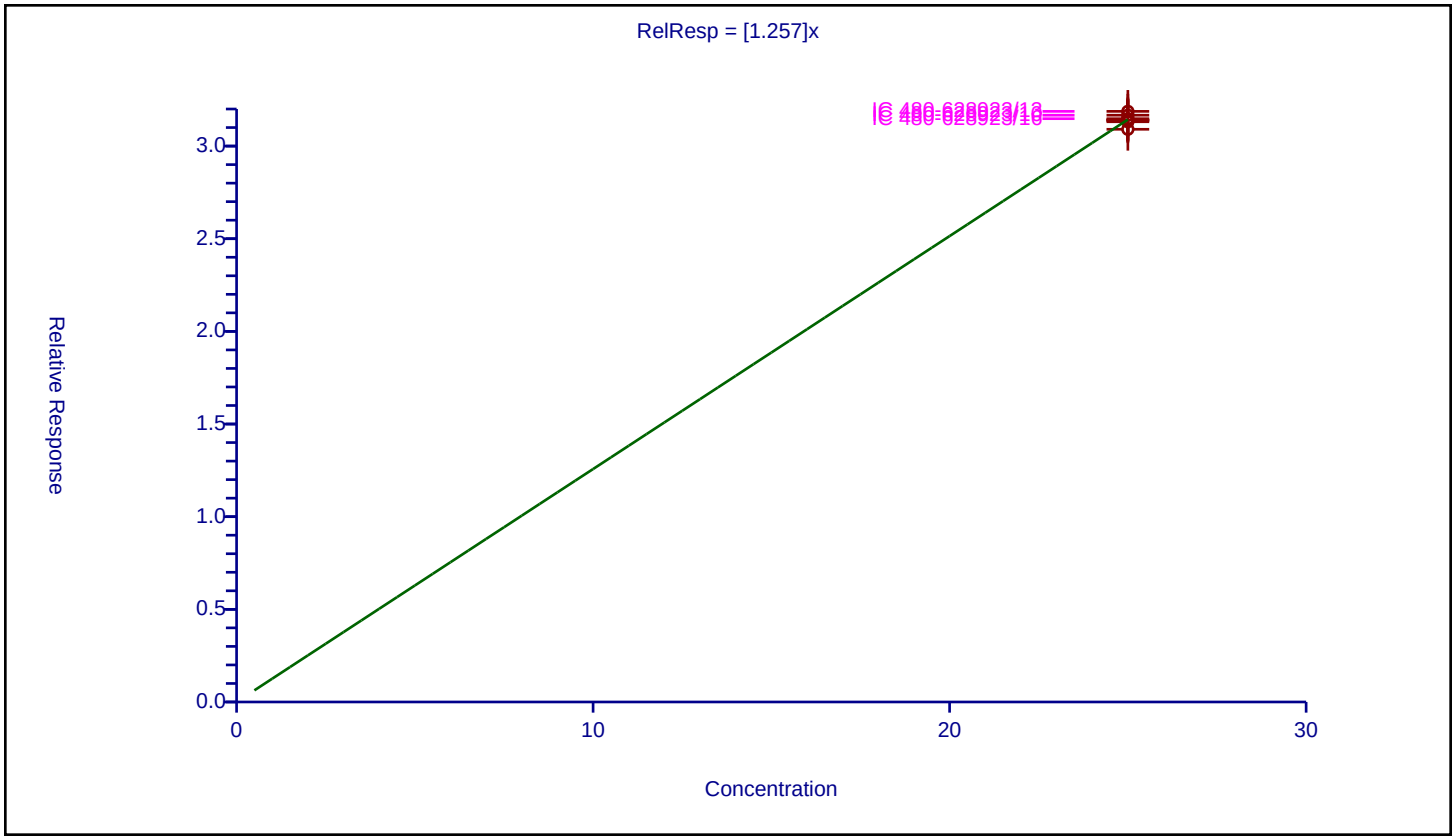
Curve Coefficients

Intercept:	0
Slope:	1.257

Error Coefficients

Standard Error:	1060000
Relative Standard Error:	0.9
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0.000000000000000111

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	25.0	31.312179	25.0	837698.0	1.252487	Y
2	IC 480-628923/10	25.0	31.666083	25.0	759719.0	1.266643	Y
3	IC 480-628923/11	25.0	31.400989	25.0	767729.0	1.25604	Y
4	IC 480-628923/12	25.0	30.906673	25.0	784257.0	1.236267	Y
5	IC 480-628923/13	25.0	31.873222	25.0	775677.0	1.274929	Y
6	ICIS 480-628923/14	25.0	31.418019	25.0	770261.0	1.256721	Y
7	IC 480-628923/15	25.0	31.379335	25.0	816970.0	1.255173	Y
8	IC 480-628923/16	25.0	31.477613	25.0	819839.0	1.259105	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

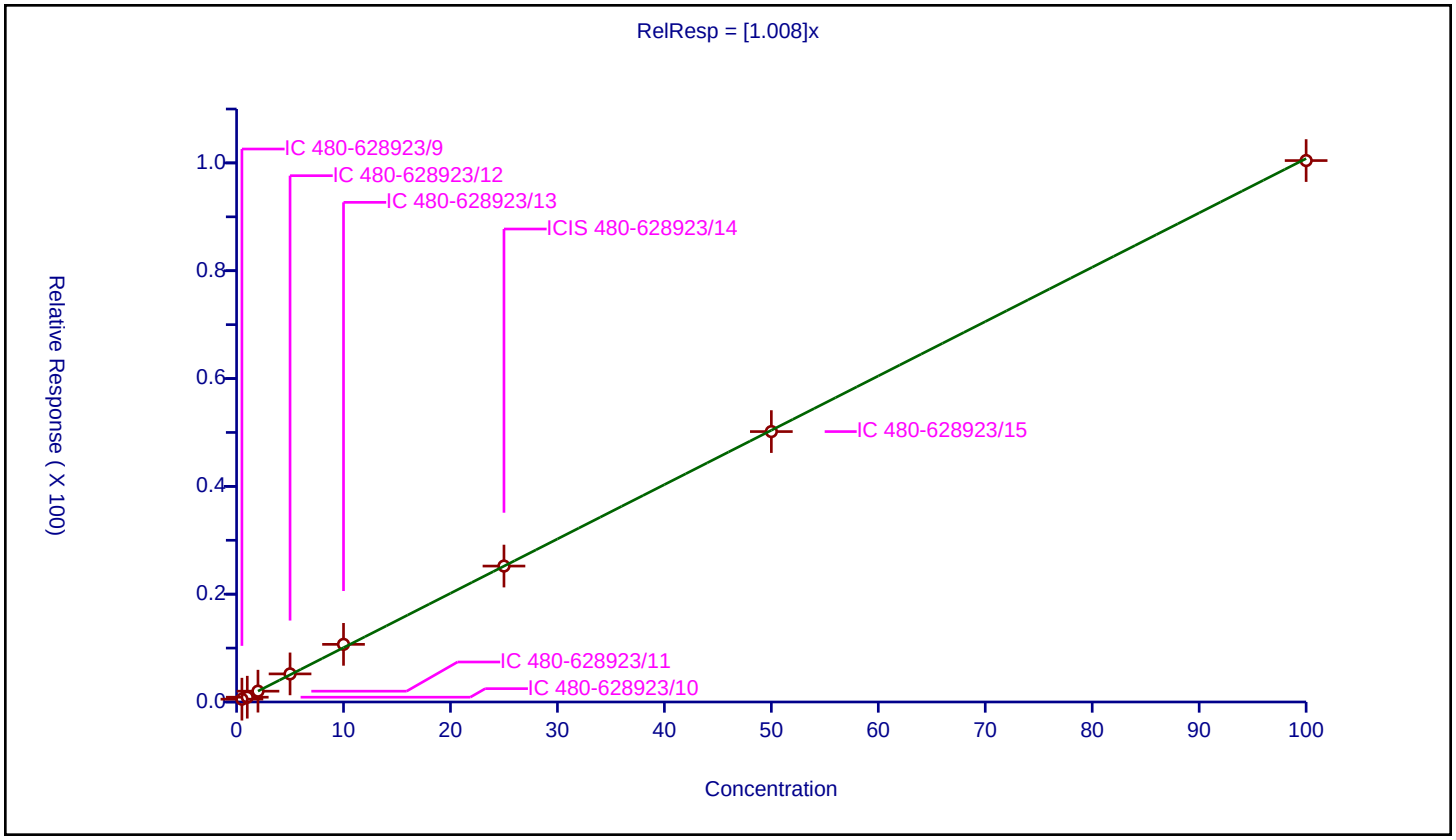
Curve Coefficients

Intercept:	0
Slope:	1.008

Error Coefficients

Standard Error:	1430000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.522861	25.0	837698.0	1.045723	Y
2	IC 480-628923/10	1.0	0.887137	25.0	759719.0	0.887137	Y
3	IC 480-628923/11	2.0	2.007544	25.0	767729.0	1.003772	Y
4	IC 480-628923/12	5.0	5.212481	25.0	784257.0	1.042496	Y
5	IC 480-628923/13	10.0	10.692369	25.0	775677.0	1.069237	Y
6	ICIS 480-628923/14	25.0	25.21444	25.0	770261.0	1.008578	Y
7	IC 480-628923/15	50.0	50.165306	25.0	816970.0	1.003306	Y
8	IC 480-628923/16	100.0	100.437068	25.0	819839.0	1.004371	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

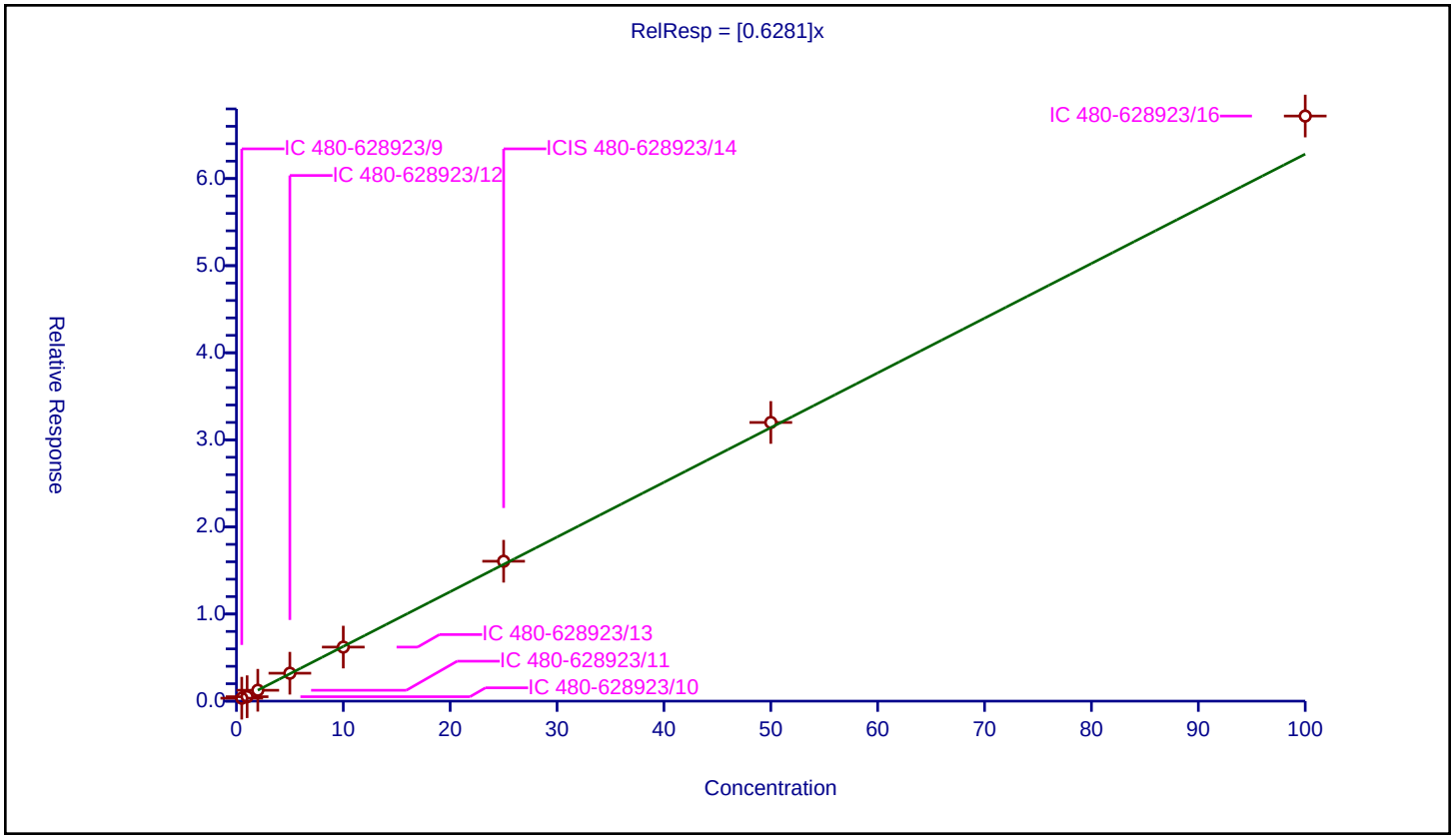
Curve Coefficients

Intercept:	0
Slope:	0.6281

Error Coefficients

Standard Error:	944000
Relative Standard Error:	8.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.337144	25.0	837698.0	0.674288	Y
2	IC 480-628923/10	1.0	0.510254	25.0	759719.0	0.510254	Y
3	IC 480-628923/11	2.0	1.247934	25.0	767729.0	0.623967	Y
4	IC 480-628923/12	5.0	3.207367	25.0	784257.0	0.641473	Y
5	IC 480-628923/13	10.0	6.20545	25.0	775677.0	0.620545	Y
6	ICIS 480-628923/14	25.0	16.063678	25.0	770261.0	0.642547	Y
7	IC 480-628923/15	50.0	31.997809	25.0	816970.0	0.639956	Y
8	IC 480-628923/16	100.0	67.180477	25.0	819839.0	0.671805	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

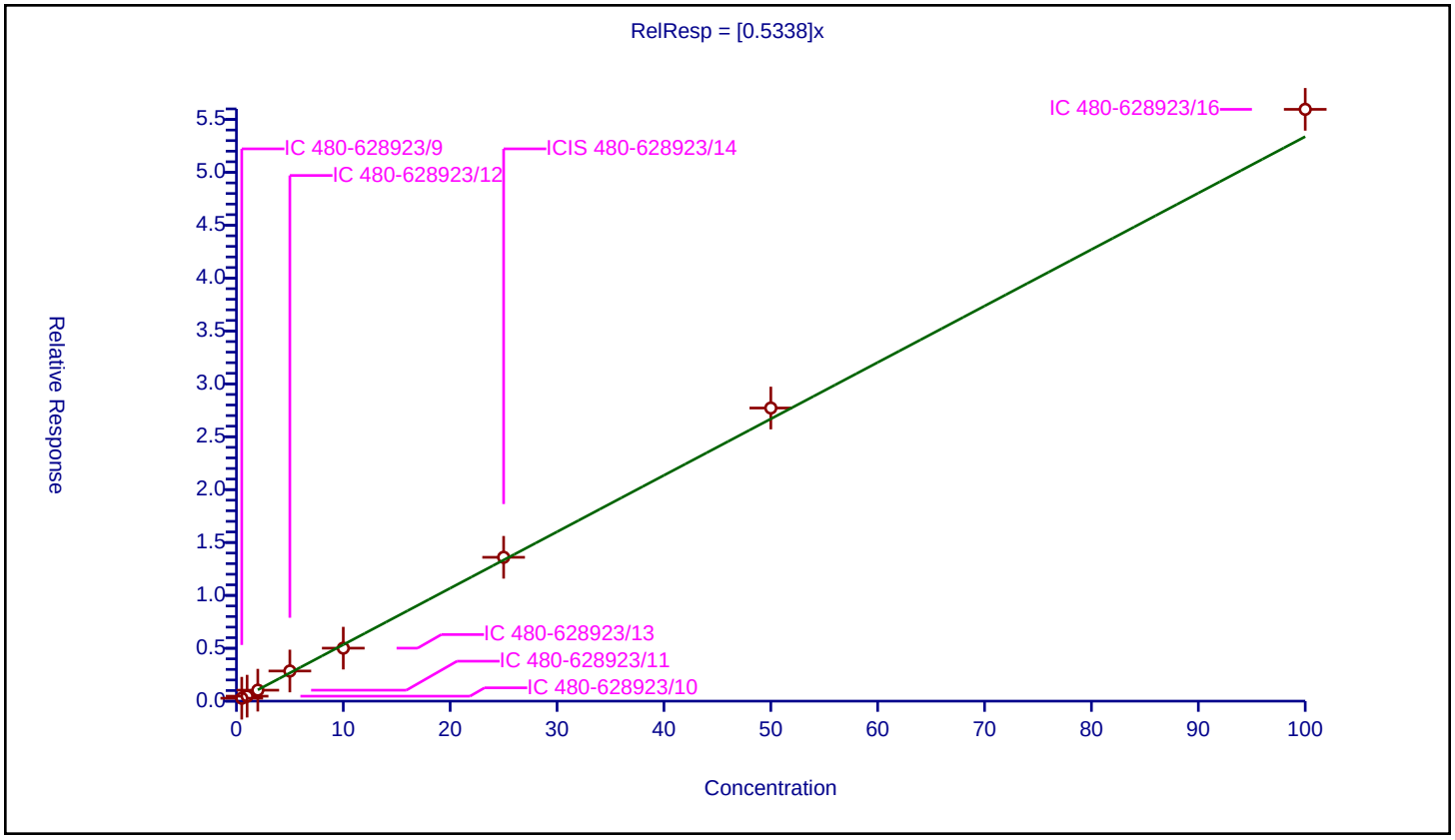
Curve Coefficients

Intercept:	0
Slope:	0.5338

Error Coefficients

Standard Error:	793000
Relative Standard Error:	6.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.276024	25.0	837698.0	0.552049	Y
2	IC 480-628923/10	1.0	0.470799	25.0	759719.0	0.470799	Y
3	IC 480-628923/11	2.0	1.03702	25.0	767729.0	0.51851	Y
4	IC 480-628923/12	5.0	2.849831	25.0	784257.0	0.569966	Y
5	IC 480-628923/13	10.0	5.009624	25.0	775677.0	0.500962	Y
6	ICIS 480-628923/14	25.0	13.599449	25.0	770261.0	0.543978	Y
7	IC 480-628923/15	50.0	27.717236	25.0	816970.0	0.554345	Y
8	IC 480-628923/16	100.0	55.957969	25.0	819839.0	0.55958	Y



Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

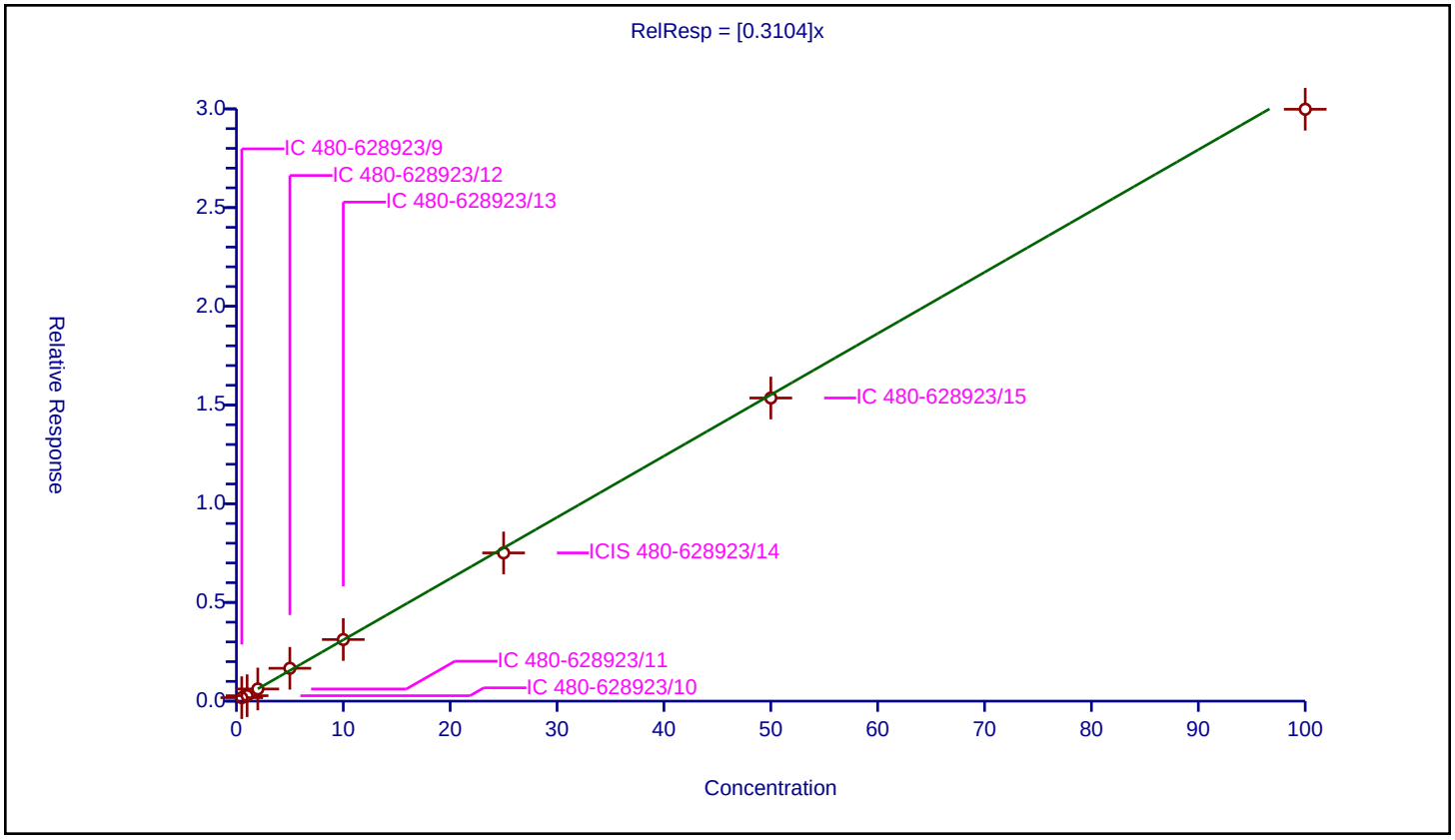
Curve Coefficients

Intercept:	0
Slope:	0.3104

Error Coefficients

Standard Error:	428000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.174168	25.0	837698.0	0.348336	Y
2	IC 480-628923/10	1.0	0.274608	25.0	759719.0	0.274608	Y
3	IC 480-628923/11	2.0	0.615647	25.0	767729.0	0.307823	Y
4	IC 480-628923/12	5.0	1.663836	25.0	784257.0	0.332767	Y
5	IC 480-628923/13	10.0	3.120887	25.0	775677.0	0.312089	Y
6	ICIS 480-628923/14	25.0	7.508267	25.0	770261.0	0.300331	Y
7	IC 480-628923/15	50.0	15.354725	25.0	816970.0	0.307095	Y
8	IC 480-628923/16	100.0	29.981557	25.0	819839.0	0.299816	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

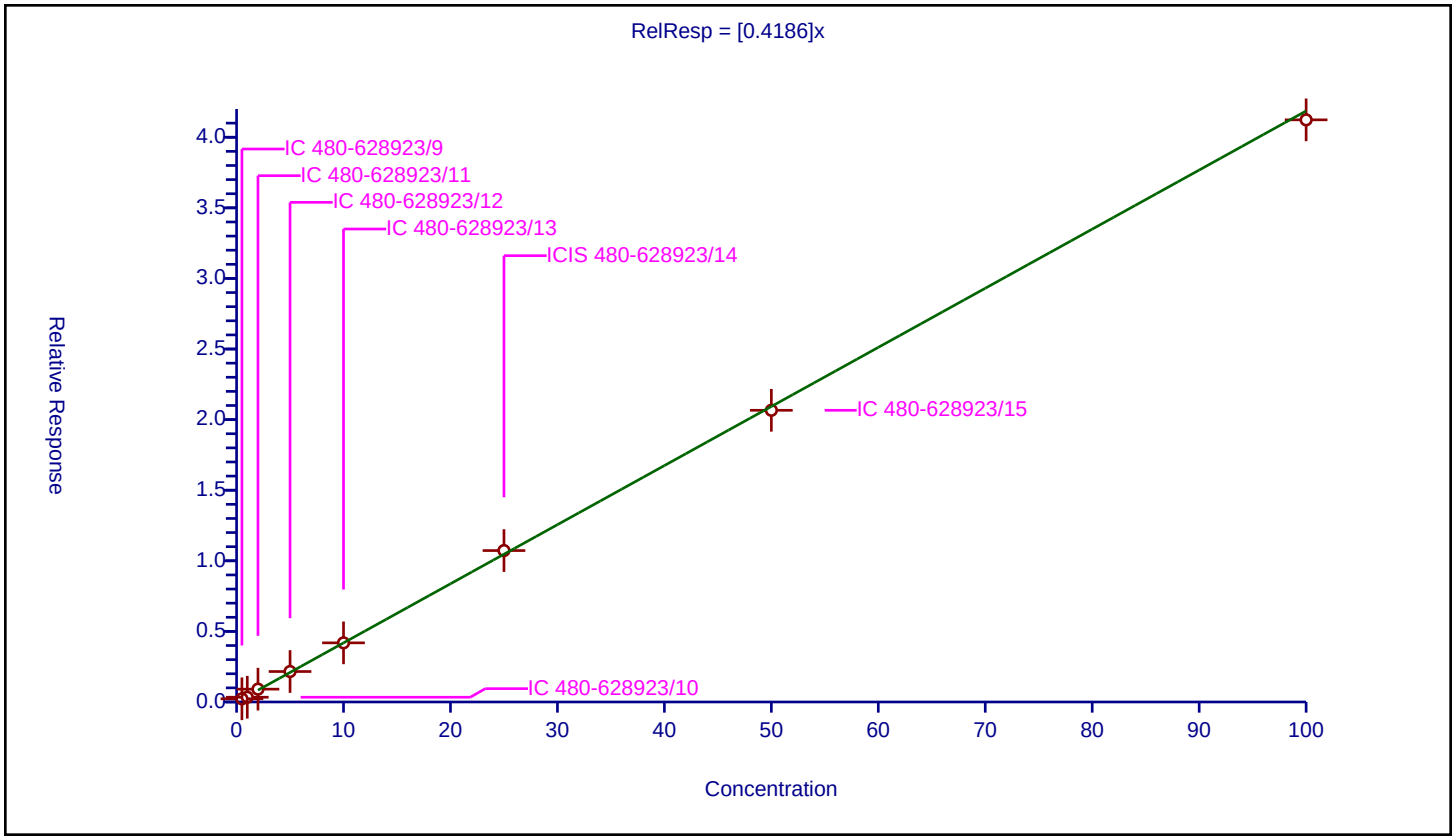
Curve Coefficients

Intercept:	0
Slope:	0.4186

Error Coefficients

Standard Error:	587000
Relative Standard Error:	8.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.226036	25.0	837698.0	0.452072	Y
2	IC 480-628923/10	1.0	0.336769	25.0	759719.0	0.336769	Y
3	IC 480-628923/11	2.0	0.909989	25.0	767729.0	0.454995	Y
4	IC 480-628923/12	5.0	2.158349	25.0	784257.0	0.43167	Y
5	IC 480-628923/13	10.0	4.189147	25.0	775677.0	0.418915	Y
6	ICIS 480-628923/14	25.0	10.726332	25.0	770261.0	0.429053	Y
7	IC 480-628923/15	50.0	20.660612	25.0	816970.0	0.413212	Y
8	IC 480-628923/16	100.0	41.232394	25.0	819839.0	0.412324	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

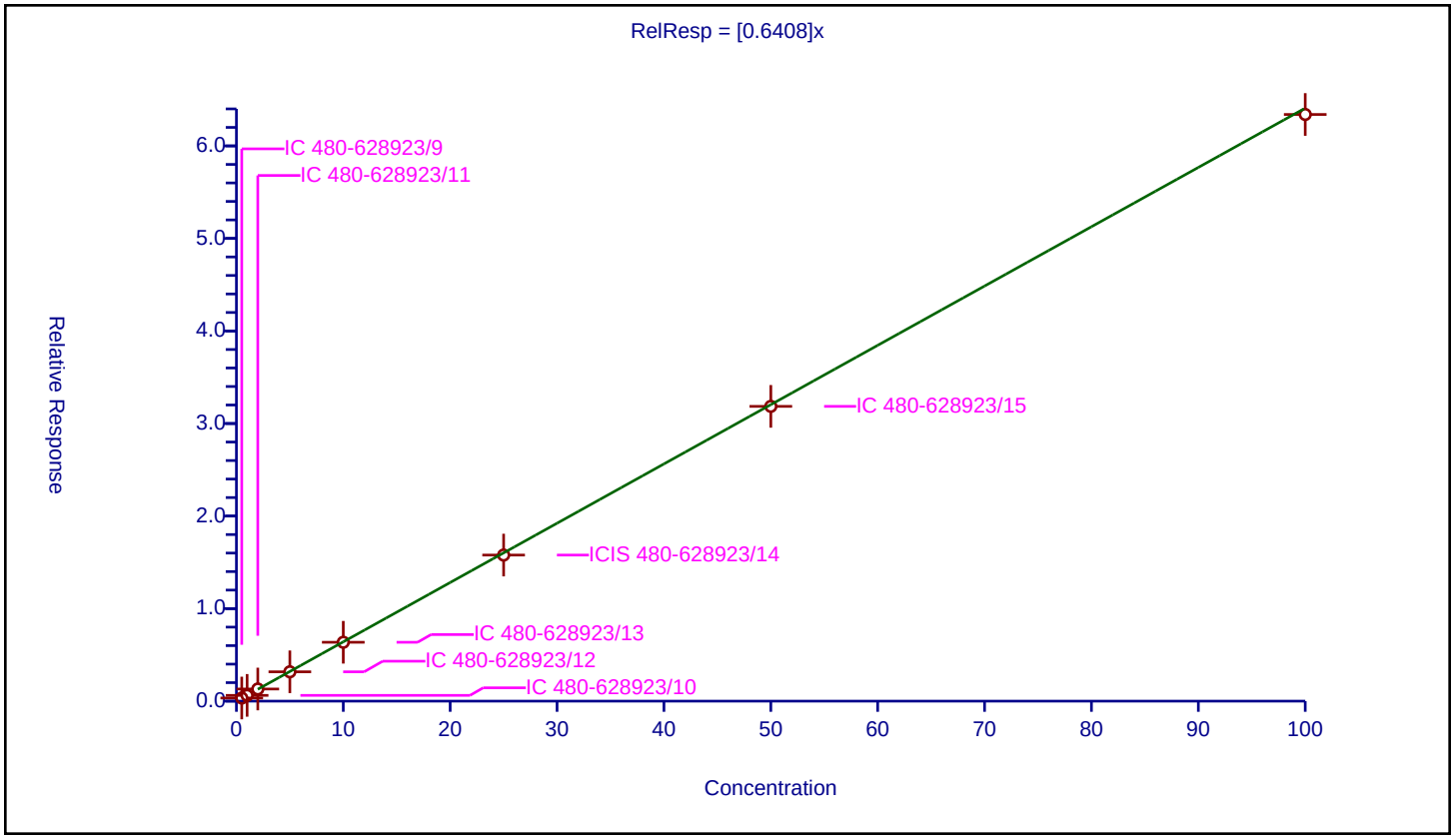
Curve Coefficients

Intercept:	0
Slope:	0.6408

Error Coefficients

Standard Error:	902000
Relative Standard Error:	2.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.33792	25.0	837698.0	0.67584	Y
2	IC 480-628923/10	1.0	0.62273	25.0	759719.0	0.62273	Y
3	IC 480-628923/11	2.0	1.3114	25.0	767729.0	0.6557	Y
4	IC 480-628923/12	5.0	3.168859	25.0	784257.0	0.633772	Y
5	IC 480-628923/13	10.0	6.360798	25.0	775677.0	0.63608	Y
6	ICIS 480-628923/14	25.0	15.785851	25.0	770261.0	0.631434	Y
7	IC 480-628923/15	50.0	31.85475	25.0	816970.0	0.637095	Y
8	IC 480-628923/16	100.0	63.395465	25.0	819839.0	0.633955	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

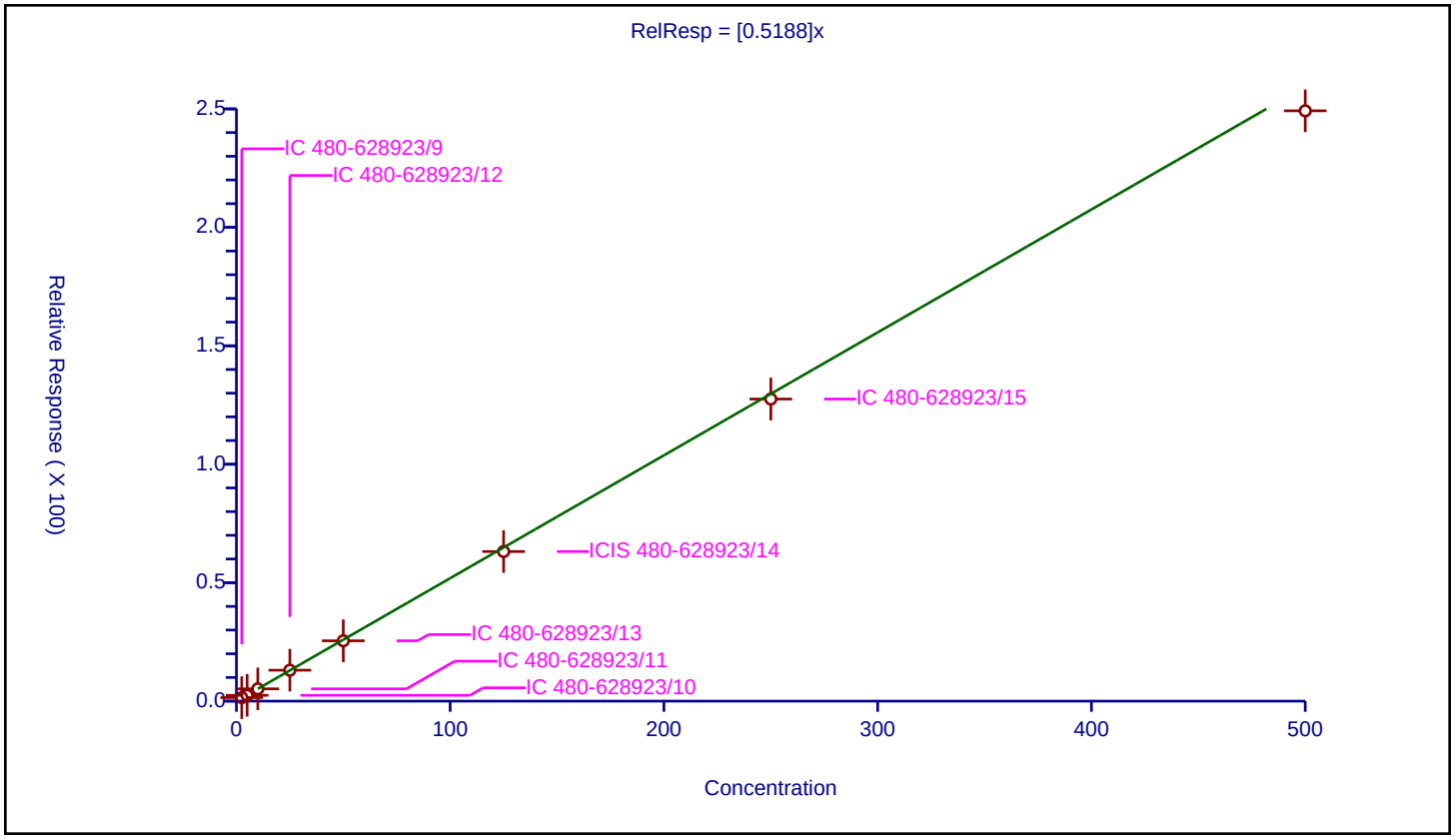
Curve Coefficients

Intercept:	0
Slope:	0.5188

Error Coefficients

Standard Error:	3560000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	2.5	1.48929	25.0	837698.0	0.595716	Y
2	IC 480-628923/10	5.0	2.457619	25.0	759719.0	0.491524	Y
3	IC 480-628923/11	10.0	5.1836	25.0	767729.0	0.51836	Y
4	IC 480-628923/12	25.0	13.05433	25.0	784257.0	0.522173	Y
5	IC 480-628923/13	50.0	25.470138	25.0	775677.0	0.509403	Y
6	ICIS 480-628923/14	125.0	63.141	25.0	770261.0	0.505128	Y
7	IC 480-628923/15	250.0	127.522063	25.0	816970.0	0.510088	Y
8	IC 480-628923/16	500.0	249.188133	25.0	819839.0	0.498376	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

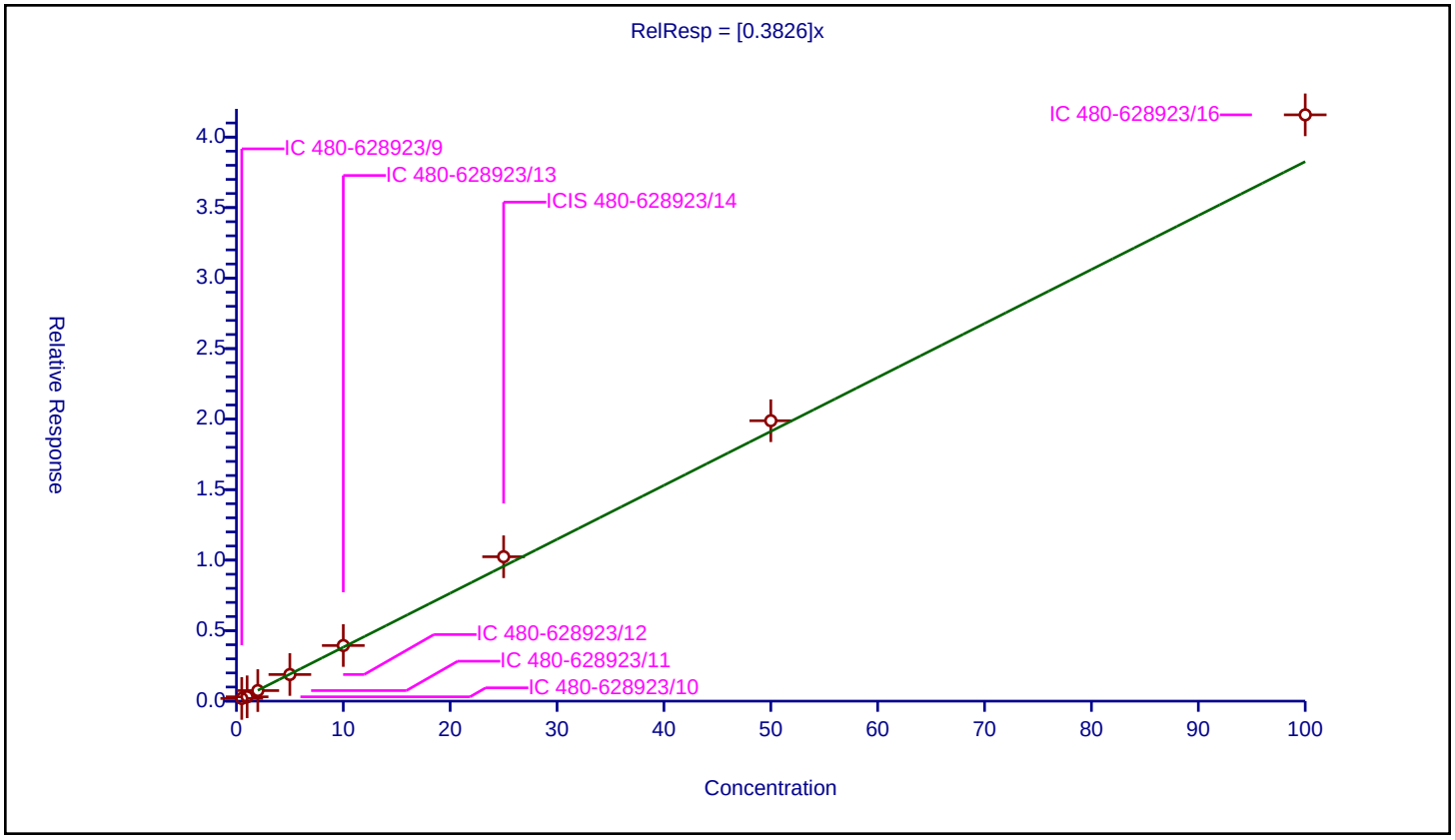
Curve Coefficients

Intercept:	0
Slope:	0.3826

Error Coefficients

Standard Error:	586000
Relative Standard Error:	8.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.192611	25.0	837698.0	0.385222	Y
2	IC 480-628923/10	1.0	0.306265	25.0	759719.0	0.306265	Y
3	IC 480-628923/11	2.0	0.748897	25.0	767729.0	0.374449	Y
4	IC 480-628923/12	5.0	1.886913	25.0	784257.0	0.377383	Y
5	IC 480-628923/13	10.0	3.94449	25.0	775677.0	0.394449	Y
6	ICIS 480-628923/14	25.0	10.240457	25.0	770261.0	0.409618	Y
7	IC 480-628923/15	50.0	19.885247	25.0	816970.0	0.397705	Y
8	IC 480-628923/16	100.0	41.578499	25.0	819839.0	0.415785	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

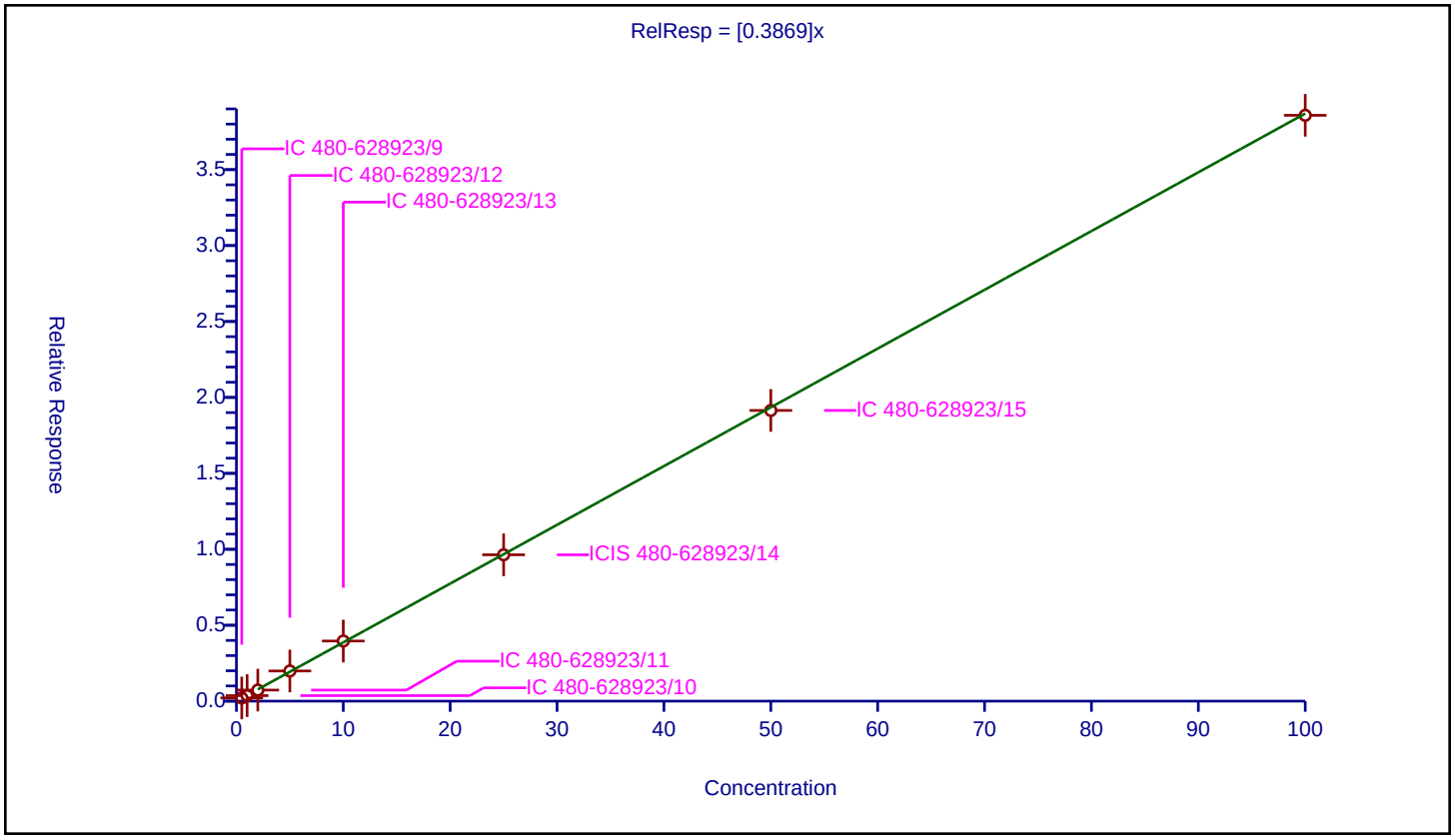
Curve Coefficients

Intercept:	0
Slope:	0.3869

Error Coefficients

Standard Error:	548000
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.210249	25.0	837698.0	0.420498	Y
2	IC 480-628923/10	1.0	0.363128	25.0	759719.0	0.363128	Y
3	IC 480-628923/11	2.0	0.729196	25.0	767729.0	0.364598	Y
4	IC 480-628923/12	5.0	1.985669	25.0	784257.0	0.397134	Y
5	IC 480-628923/13	10.0	3.959573	25.0	775677.0	0.395957	Y
6	ICIS 480-628923/14	25.0	9.637318	25.0	770261.0	0.385493	Y
7	IC 480-628923/15	50.0	19.142319	25.0	816970.0	0.382846	Y
8	IC 480-628923/16	100.0	38.576538	25.0	819839.0	0.385765	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

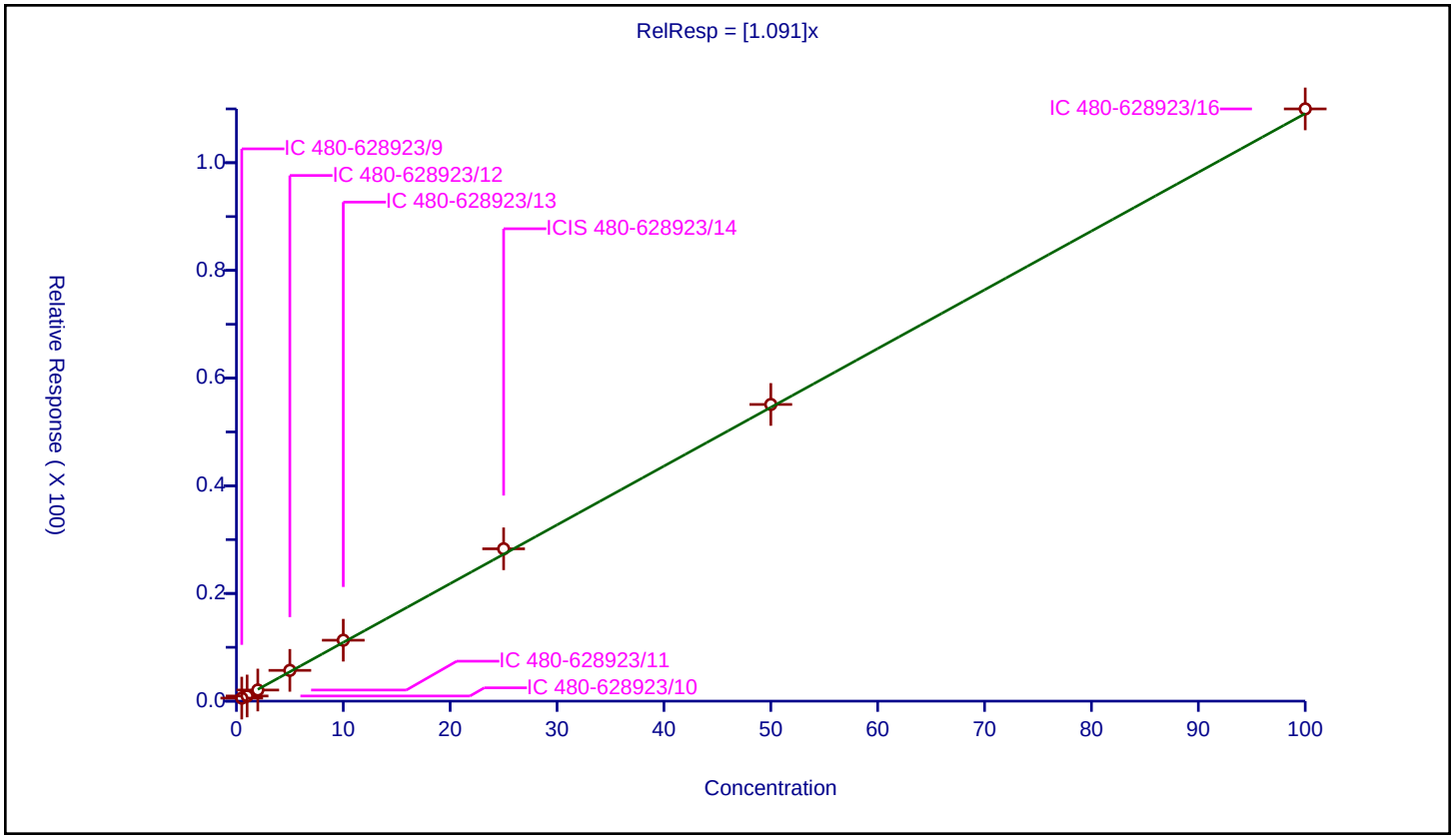
Curve Coefficients

Intercept:	0
Slope:	1.091

Error Coefficients

Standard Error:	1570000
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.564822	25.0	837698.0	1.129643	Y
2	IC 480-628923/10	1.0	0.958512	25.0	759719.0	0.958512	Y
3	IC 480-628923/11	2.0	2.066777	25.0	767729.0	1.033389	Y
4	IC 480-628923/12	5.0	5.71592	25.0	784257.0	1.143184	Y
5	IC 480-628923/13	10.0	11.318145	25.0	775677.0	1.131815	Y
6	ICIS 480-628923/14	25.0	28.293462	25.0	770261.0	1.131738	Y
7	IC 480-628923/15	50.0	55.106093	25.0	816970.0	1.102122	Y
8	IC 480-628923/16	100.0	109.997176	25.0	819839.0	1.099972	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

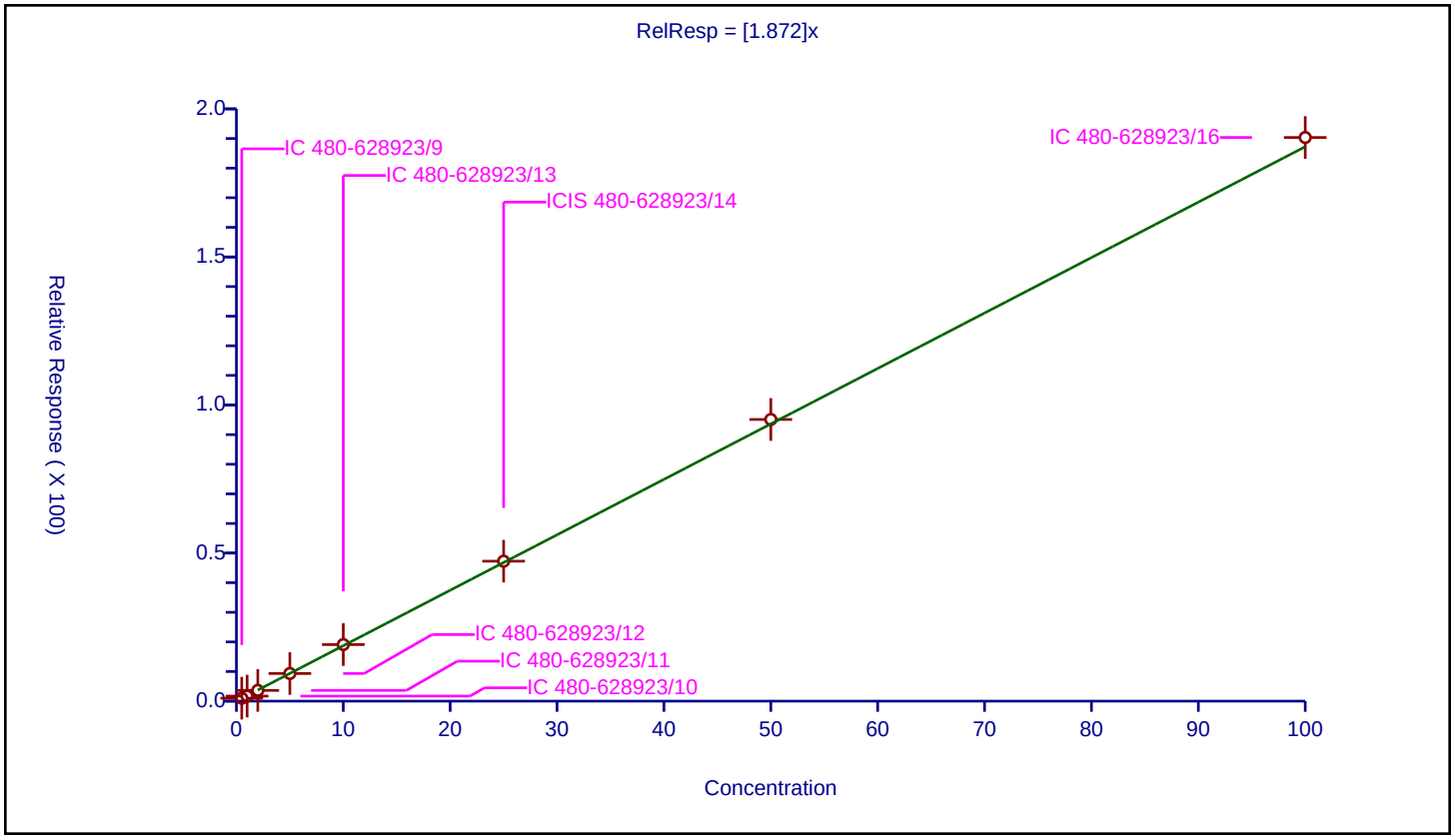
Curve Coefficients

Intercept:	0
Slope:	1.872

Error Coefficients

Standard Error:	2700000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.994571	25.0	837698.0	1.989142	Y
2	IC 480-628923/10	1.0	1.700826	25.0	759719.0	1.700826	Y
3	IC 480-628923/11	2.0	3.632239	25.0	767729.0	1.816119	Y
4	IC 480-628923/12	5.0	9.328766	25.0	784257.0	1.865753	Y
5	IC 480-628923/13	10.0	19.102088	25.0	775677.0	1.910209	Y
6	ICIS 480-628923/14	25.0	47.25804	25.0	770261.0	1.890322	Y
7	IC 480-628923/15	50.0	95.120078	25.0	816970.0	1.902402	Y
8	IC 480-628923/16	100.0	190.336456	25.0	819839.0	1.903365	Y



Calibration / 1,1,1,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

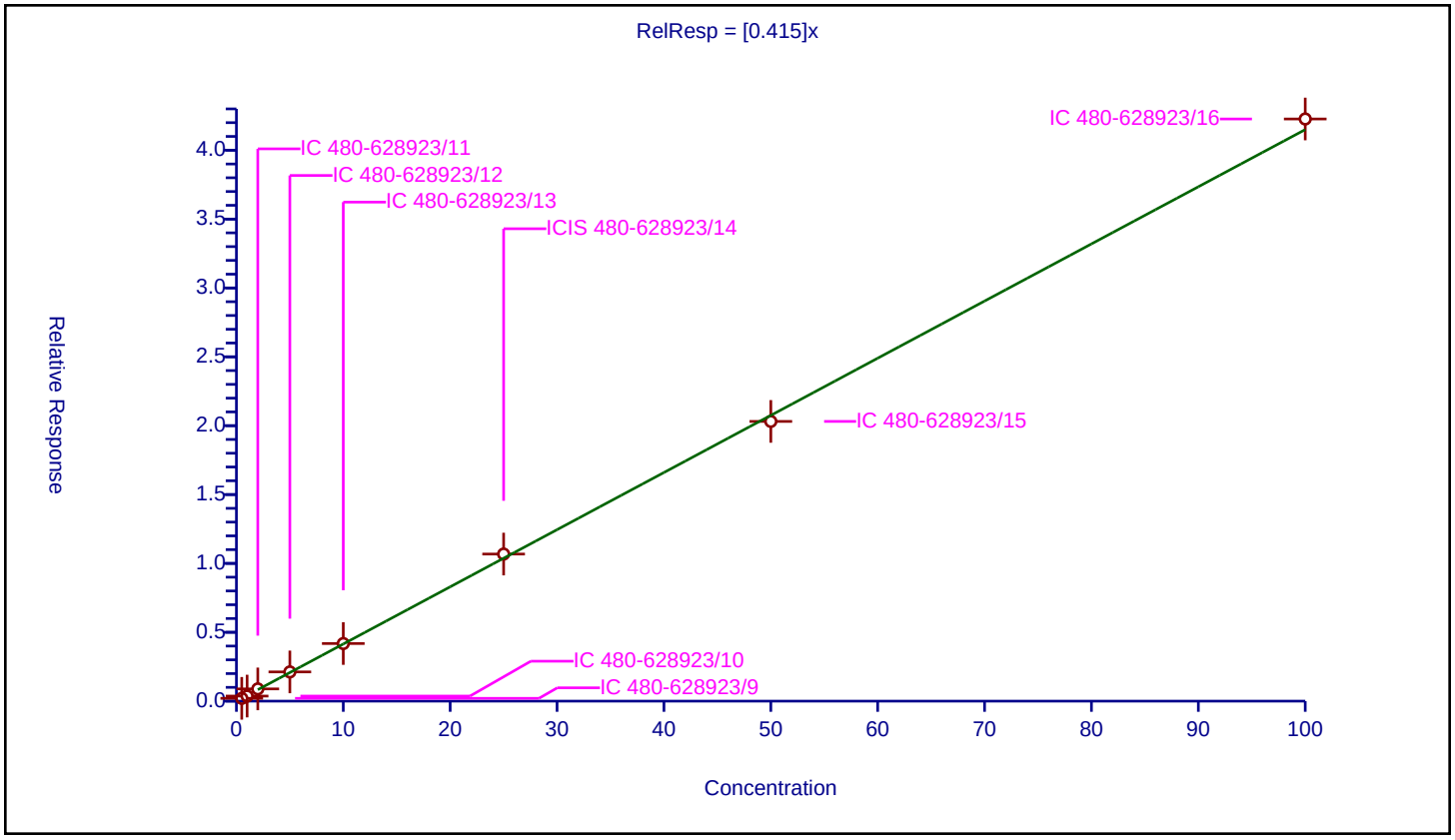
Curve Coefficients

Intercept:	0
Slope:	0.415

Error Coefficients

Standard Error:	597000
Relative Standard Error:	5.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.204041	25.0	837698.0	0.408083	Y
2	IC 480-628923/10	1.0	0.36859	25.0	759719.0	0.36859	Y
3	IC 480-628923/11	2.0	0.888692	25.0	767729.0	0.444346	Y
4	IC 480-628923/12	5.0	2.121945	25.0	784257.0	0.424389	Y
5	IC 480-628923/13	10.0	4.182701	25.0	775677.0	0.41827	Y
6	ICIS 480-628923/14	25.0	10.678848	25.0	770261.0	0.427154	Y
7	IC 480-628923/15	50.0	20.309467	25.0	816970.0	0.406189	Y
8	IC 480-628923/16	100.0	42.26714	25.0	819839.0	0.422671	Y



Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

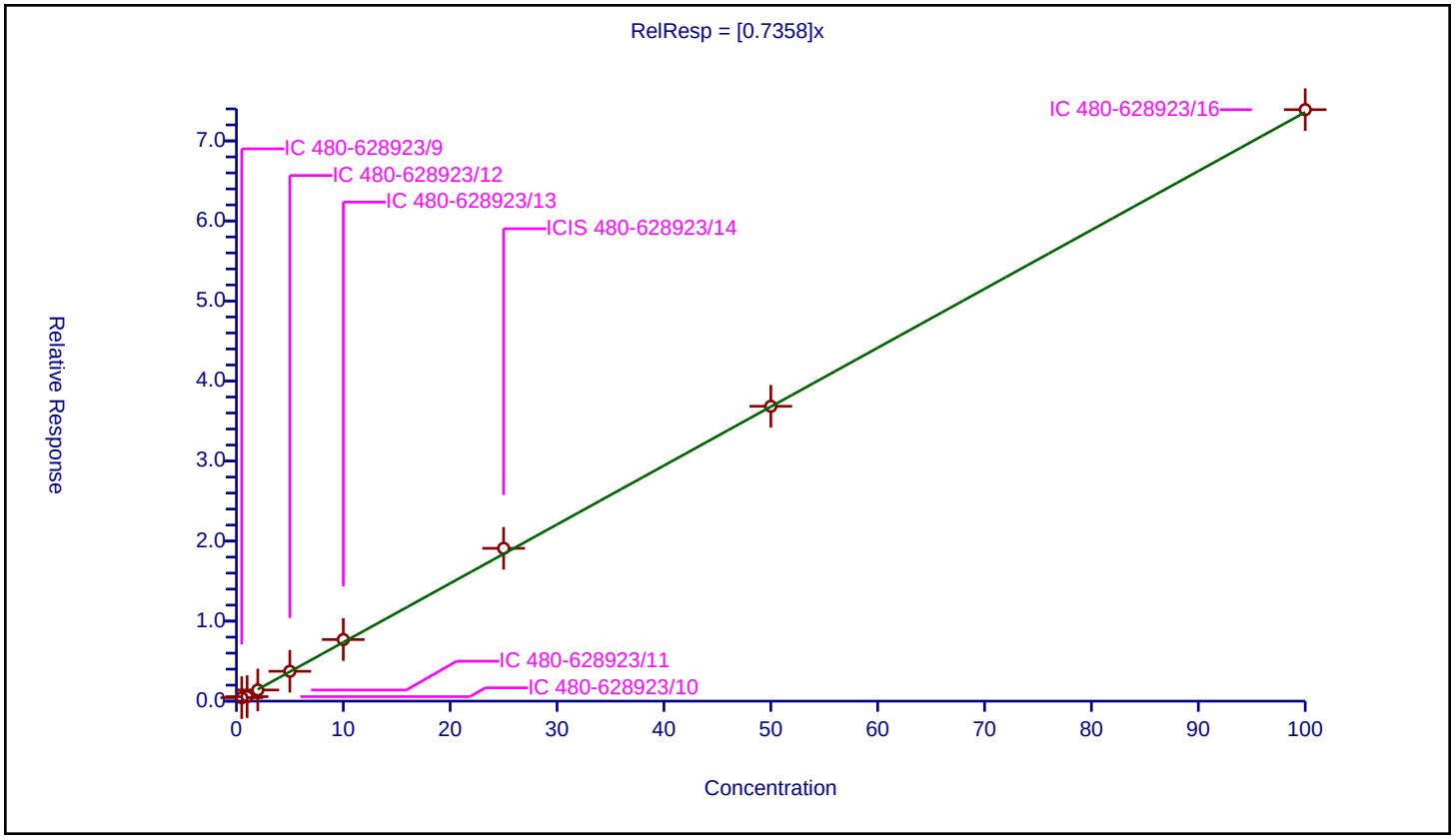
Curve Coefficients

Intercept:	0
Slope:	0.7358

Error Coefficients

Standard Error:	1050000
Relative Standard Error:	11.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.433927	25.0	837698.0	0.867855	Y
2	IC 480-628923/10	1.0	0.565176	25.0	759719.0	0.565176	Y
3	IC 480-628923/11	2.0	1.396228	25.0	767729.0	0.698114	Y
4	IC 480-628923/12	5.0	3.732546	25.0	784257.0	0.746509	Y
5	IC 480-628923/13	10.0	7.694085	25.0	775677.0	0.769409	Y
6	ICIS 480-628923/14	25.0	19.094567	25.0	770261.0	0.763783	Y
7	IC 480-628923/15	50.0	36.841622	25.0	816970.0	0.736832	Y
8	IC 480-628923/16	100.0	73.903962	25.0	819839.0	0.73904	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

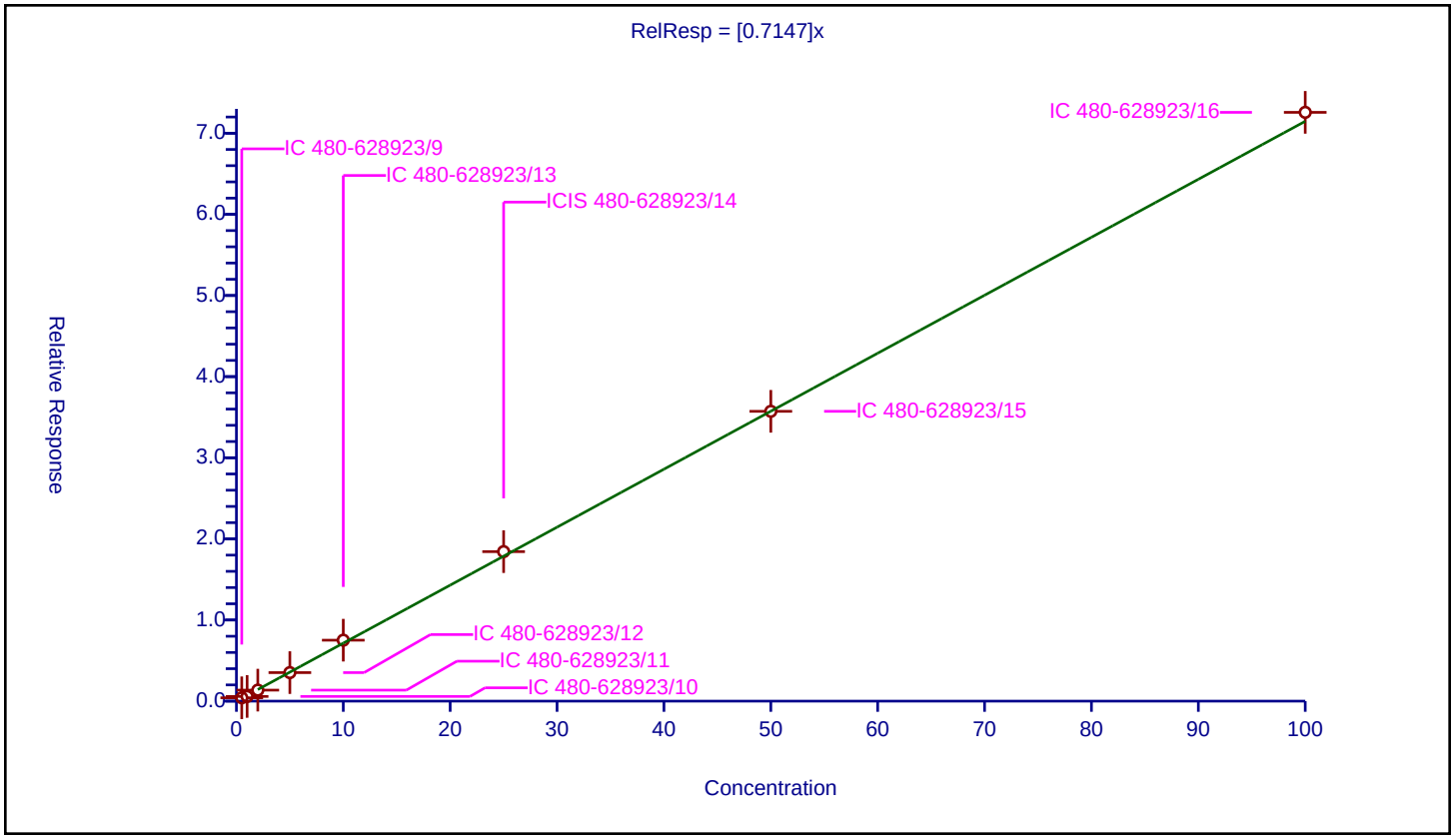
Curve Coefficients

Intercept:	0
Slope:	0.7147

Error Coefficients

Standard Error:	1030000
Relative Standard Error:	9.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.413007	25.0	837698.0	0.826014	Y
2	IC 480-628923/10	1.0	0.580346	25.0	759719.0	0.580346	Y
3	IC 480-628923/11	2.0	1.357738	25.0	767729.0	0.678869	Y
4	IC 480-628923/12	5.0	3.518968	25.0	784257.0	0.703794	Y
5	IC 480-628923/13	10.0	7.512244	25.0	775677.0	0.751224	Y
6	ICIS 480-628923/14	25.0	18.429532	25.0	770261.0	0.737181	Y
7	IC 480-628923/15	50.0	35.723833	25.0	816970.0	0.714477	Y
8	IC 480-628923/16	100.0	72.574432	25.0	819839.0	0.725744	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

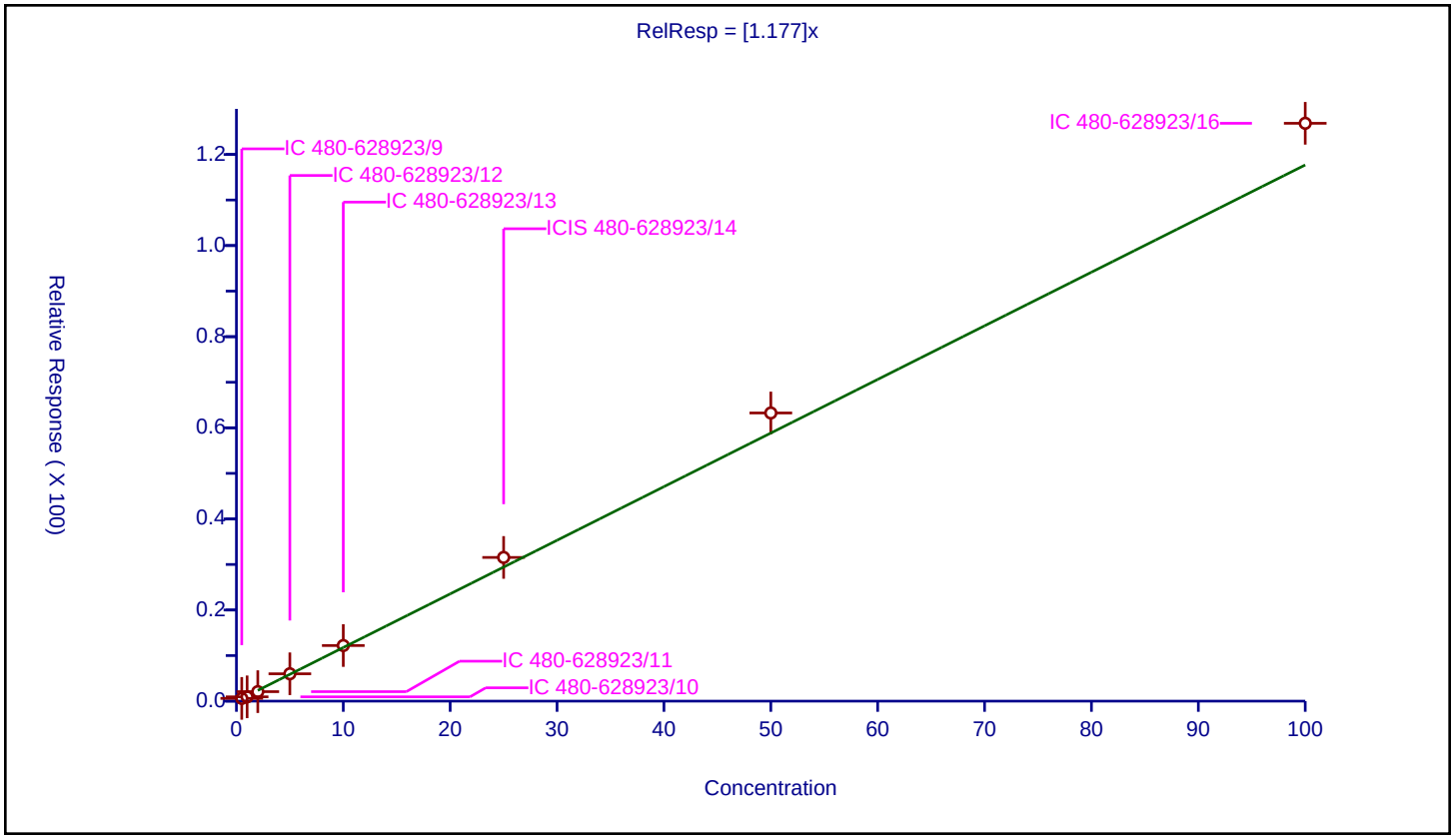
Curve Coefficients

Intercept:	0
Slope:	1.177

Error Coefficients

Standard Error:	1800000
Relative Standard Error:	10.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.603917	25.0	837698.0	1.207834	Y
2	IC 480-628923/10	1.0	0.9466	25.0	759719.0	0.9466	Y
3	IC 480-628923/11	2.0	2.086837	25.0	767729.0	1.043418	Y
4	IC 480-628923/12	5.0	6.009382	25.0	784257.0	1.201876	Y
5	IC 480-628923/13	10.0	12.205499	25.0	775677.0	1.22055	Y
6	ICIS 480-628923/14	25.0	31.543464	25.0	770261.0	1.261739	Y
7	IC 480-628923/15	50.0	63.252292	25.0	816970.0	1.265046	Y
8	IC 480-628923/16	100.0	126.837556	25.0	819839.0	1.268376	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

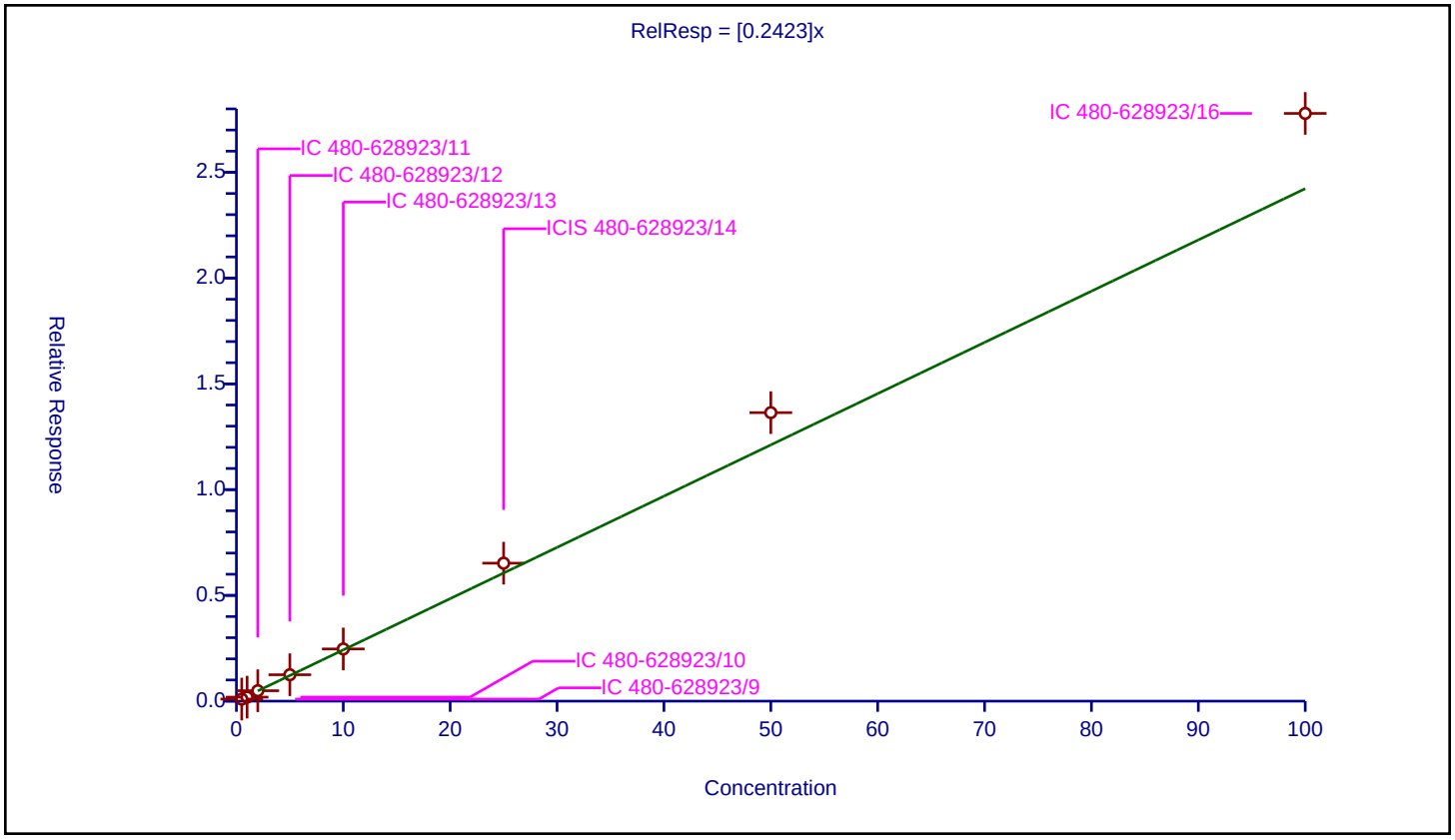
Curve Coefficients

Intercept:	0
Slope:	0.2423

Error Coefficients

Standard Error:	392000
Relative Standard Error:	13.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.09732	25.0	837698.0	0.194641	Y
2	IC 480-628923/10	1.0	0.189149	25.0	759719.0	0.189149	Y
3	IC 480-628923/11	2.0	0.493143	25.0	767729.0	0.246571	Y
4	IC 480-628923/12	5.0	1.247997	25.0	784257.0	0.249599	Y
5	IC 480-628923/13	10.0	2.467071	25.0	775677.0	0.246707	Y
6	ICIS 480-628923/14	25.0	6.522757	25.0	770261.0	0.26091	Y
7	IC 480-628923/15	50.0	13.640801	25.0	816970.0	0.272816	Y
8	IC 480-628923/16	100.0	27.786187	25.0	819839.0	0.277862	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

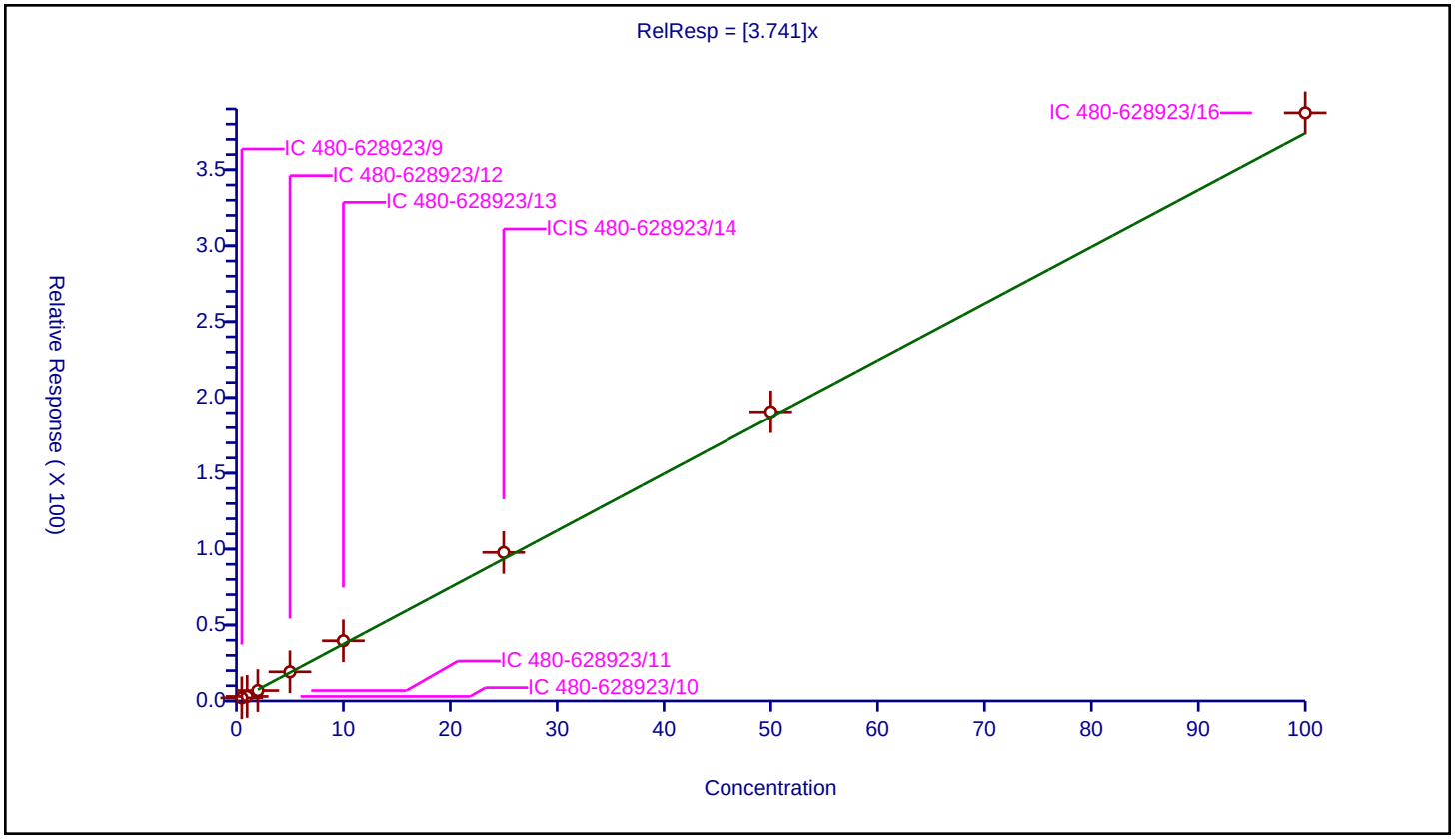
Curve Coefficients

Intercept:	0
Slope:	3.741

Error Coefficients

Standard Error:	2830000
Relative Standard Error:	9.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	2.049329	25.0	430824.0	4.098657	Y
2	IC 480-628923/10	1.0	2.994266	25.0	395389.0	2.994266	Y
3	IC 480-628923/11	2.0	6.869813	25.0	409196.0	3.434906	Y
4	IC 480-628923/12	5.0	19.192037	25.0	395965.0	3.838407	Y
5	IC 480-628923/13	10.0	39.636469	25.0	389802.0	3.963647	Y
6	ICIS 480-628923/14	25.0	97.822127	25.0	392826.0	3.912885	Y
7	IC 480-628923/15	50.0	190.560824	25.0	424322.0	3.811216	Y
8	IC 480-628923/16	100.0	387.422513	25.0	421040.0	3.874225	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

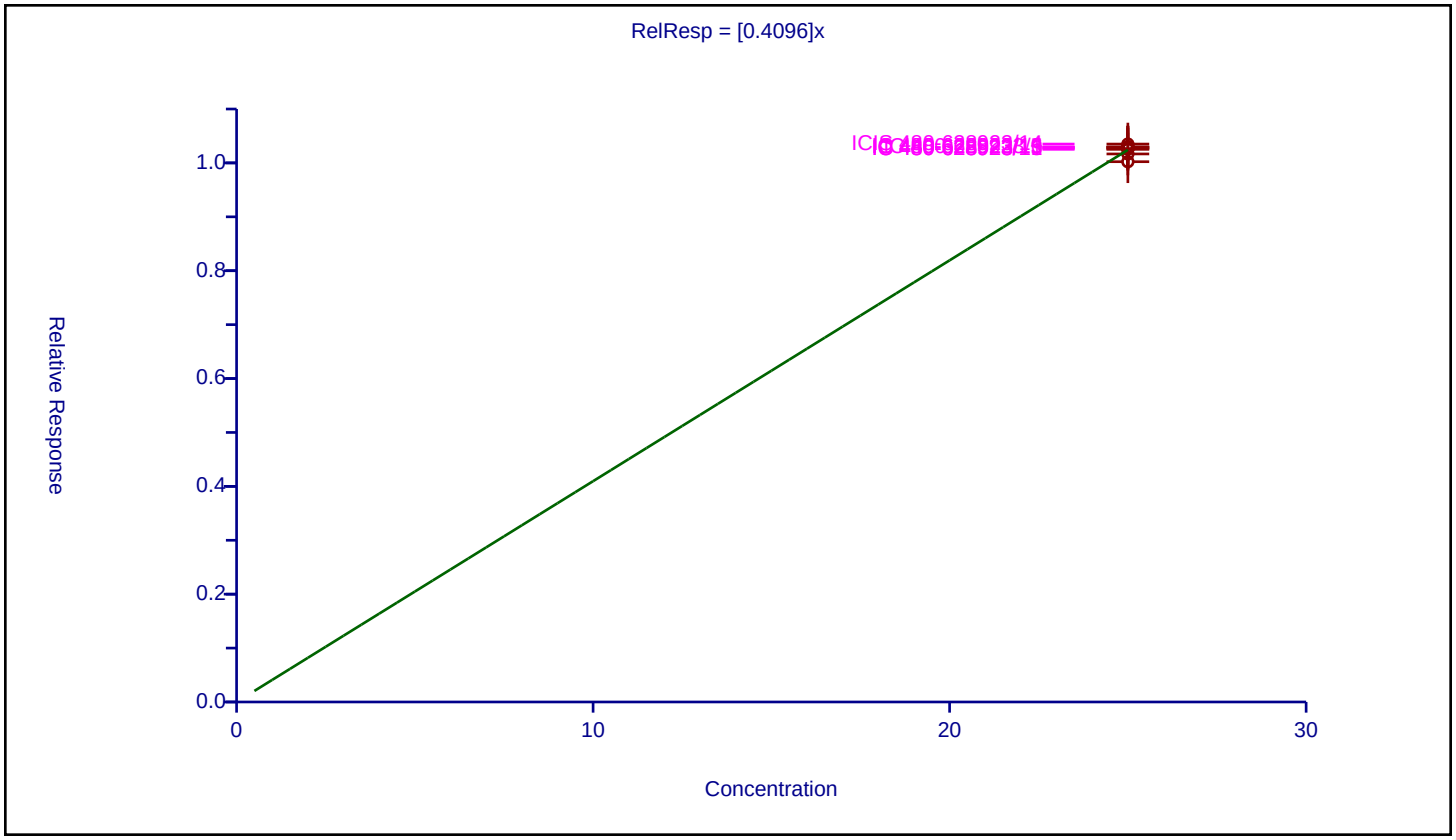
Curve Coefficients

Intercept:	0
Slope:	0.4096

Error Coefficients

Standard Error:	347000
Relative Standard Error:	1.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	25.0	10.293178	25.0	837698.0	0.411727	Y
2	IC 480-628923/10	25.0	10.166358	25.0	759719.0	0.406654	Y
3	IC 480-628923/11	25.0	10.255442	25.0	767729.0	0.410218	Y
4	IC 480-628923/12	25.0	10.022544	25.0	784257.0	0.400902	Y
5	IC 480-628923/13	25.0	10.257362	25.0	775677.0	0.410294	Y
6	ICIS 480-628923/14	25.0	10.350161	25.0	770261.0	0.414006	Y
7	IC 480-628923/15	25.0	10.291198	25.0	816970.0	0.411648	Y
8	IC 480-628923/16	25.0	10.292478	25.0	819839.0	0.411699	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

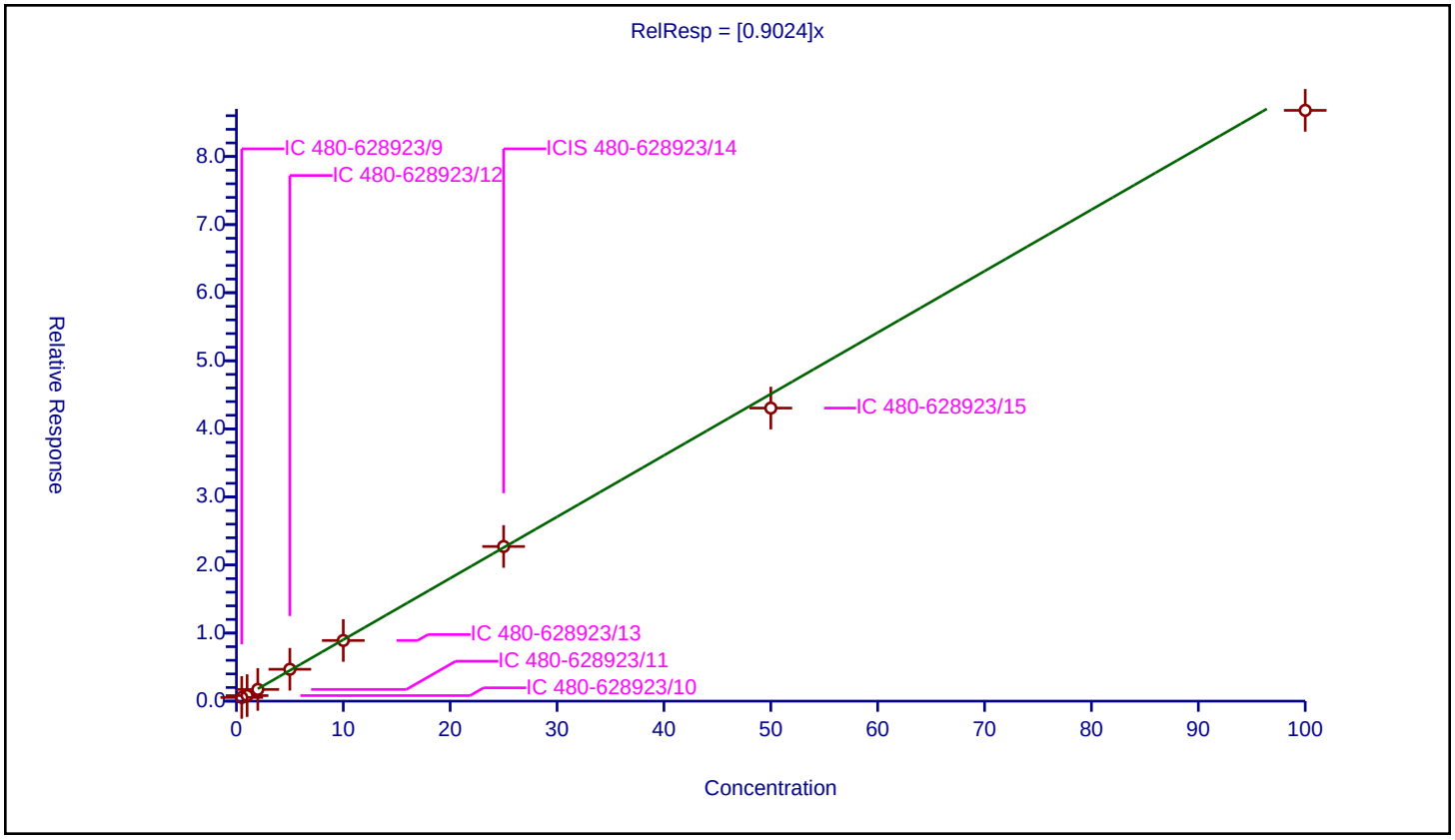
Curve Coefficients

Intercept:	0
Slope:	0.9024

Error Coefficients

Standard Error:	635000
Relative Standard Error:	9.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.541869	25.0	430824.0	1.083737	Y
2	IC 480-628923/10	1.0	0.811226	25.0	395389.0	0.811226	Y
3	IC 480-628923/11	2.0	1.718858	25.0	409196.0	0.859429	Y
4	IC 480-628923/12	5.0	4.680654	25.0	395965.0	0.936131	Y
5	IC 480-628923/13	10.0	8.912474	25.0	389802.0	0.891247	Y
6	ICIS 480-628923/14	25.0	22.719283	25.0	392826.0	0.908771	Y
7	IC 480-628923/15	50.0	43.050325	25.0	424322.0	0.861006	Y
8	IC 480-628923/16	100.0	86.784272	25.0	421040.0	0.867843	Y



Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

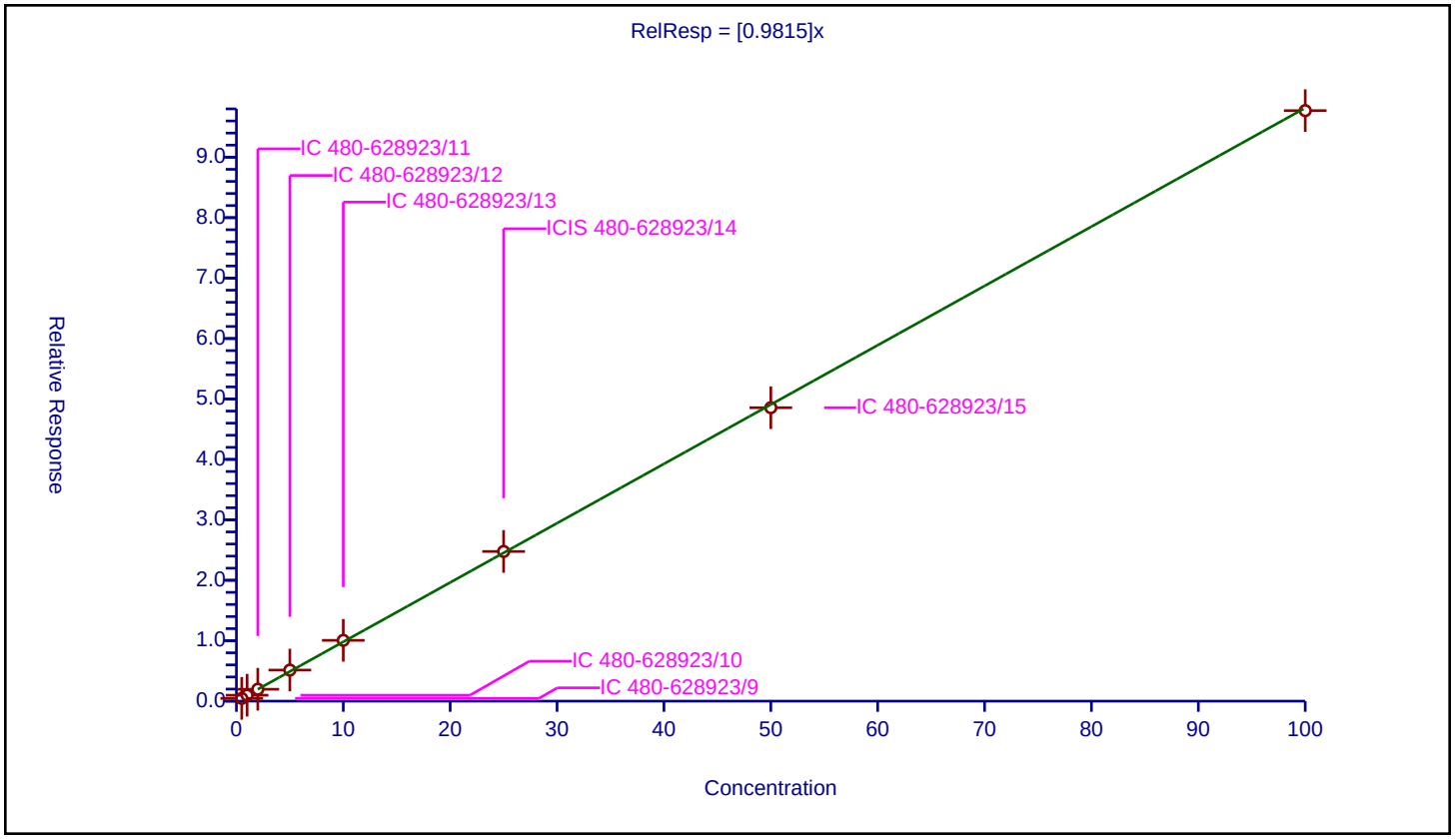
Curve Coefficients

Intercept:	0
Slope:	0.9815

Error Coefficients

Standard Error:	714000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.457205	25.0	430824.0	0.914411	Y
2	IC 480-628923/10	1.0	0.980996	25.0	395389.0	0.980996	Y
3	IC 480-628923/11	2.0	1.967028	25.0	409196.0	0.983514	Y
4	IC 480-628923/12	5.0	5.142121	25.0	395965.0	1.028424	Y
5	IC 480-628923/13	10.0	10.060172	25.0	389802.0	1.006017	Y
6	ICIS 480-628923/14	25.0	24.764018	25.0	392826.0	0.990561	Y
7	IC 480-628923/15	50.0	48.557522	25.0	424322.0	0.97115	Y
8	IC 480-628923/16	100.0	97.710134	25.0	421040.0	0.977101	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

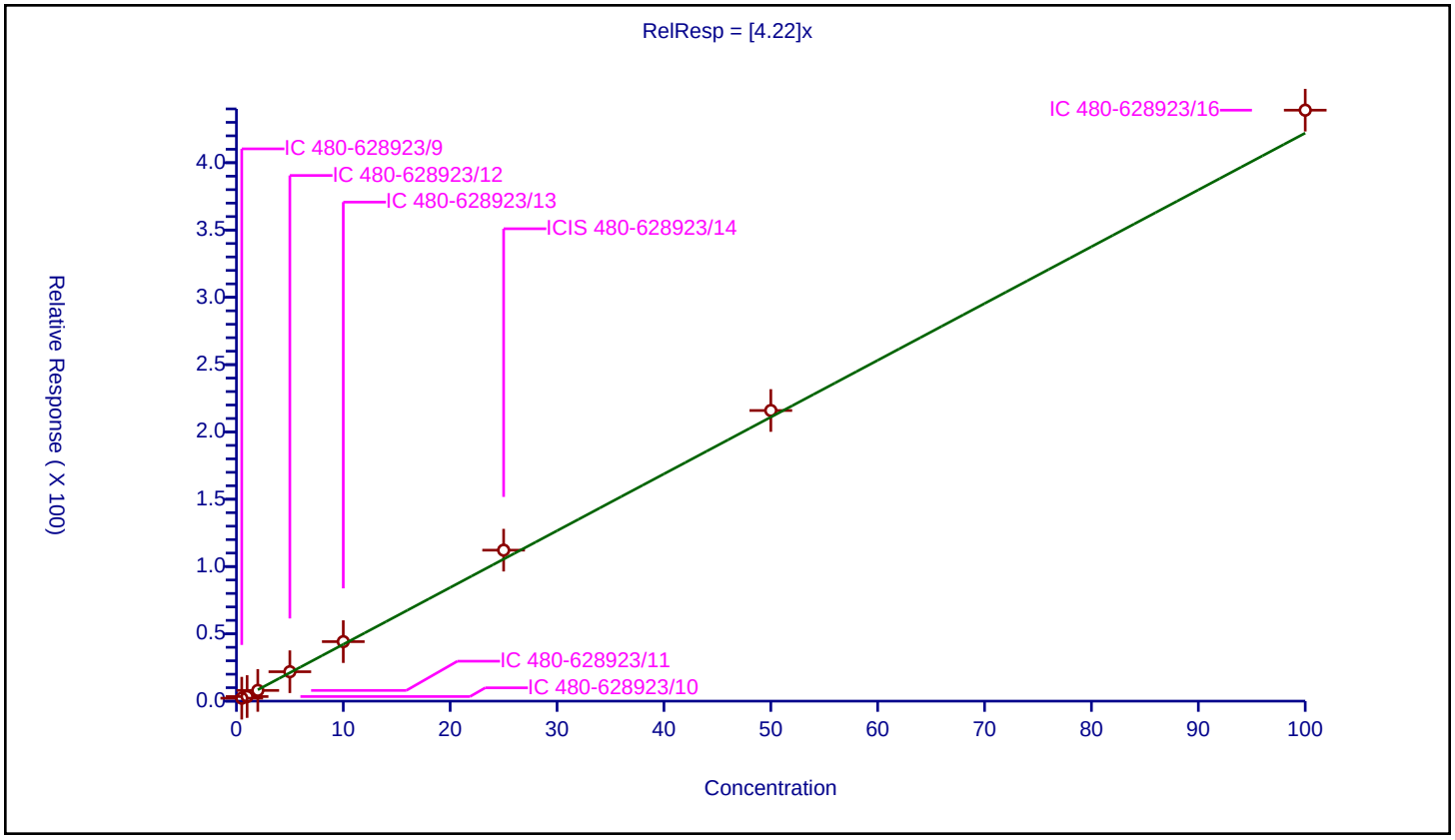
Curve Coefficients

Intercept:	0
Slope:	4.22

Error Coefficients

Standard Error:	3200000
Relative Standard Error:	8.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	2.188597	25.0	430824.0	4.377193	Y
2	IC 480-628923/10	1.0	3.410945	25.0	395389.0	3.410945	Y
3	IC 480-628923/11	2.0	7.971302	25.0	409196.0	3.985651	Y
4	IC 480-628923/12	5.0	21.857361	25.0	395965.0	4.371472	Y
5	IC 480-628923/13	10.0	44.212382	25.0	389802.0	4.421238	Y
6	ICIS 480-628923/14	25.0	112.157482	25.0	392826.0	4.486299	Y
7	IC 480-628923/15	50.0	215.936364	25.0	424322.0	4.318727	Y
8	IC 480-628923/16	100.0	439.041481	25.0	421040.0	4.390415	Y



Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

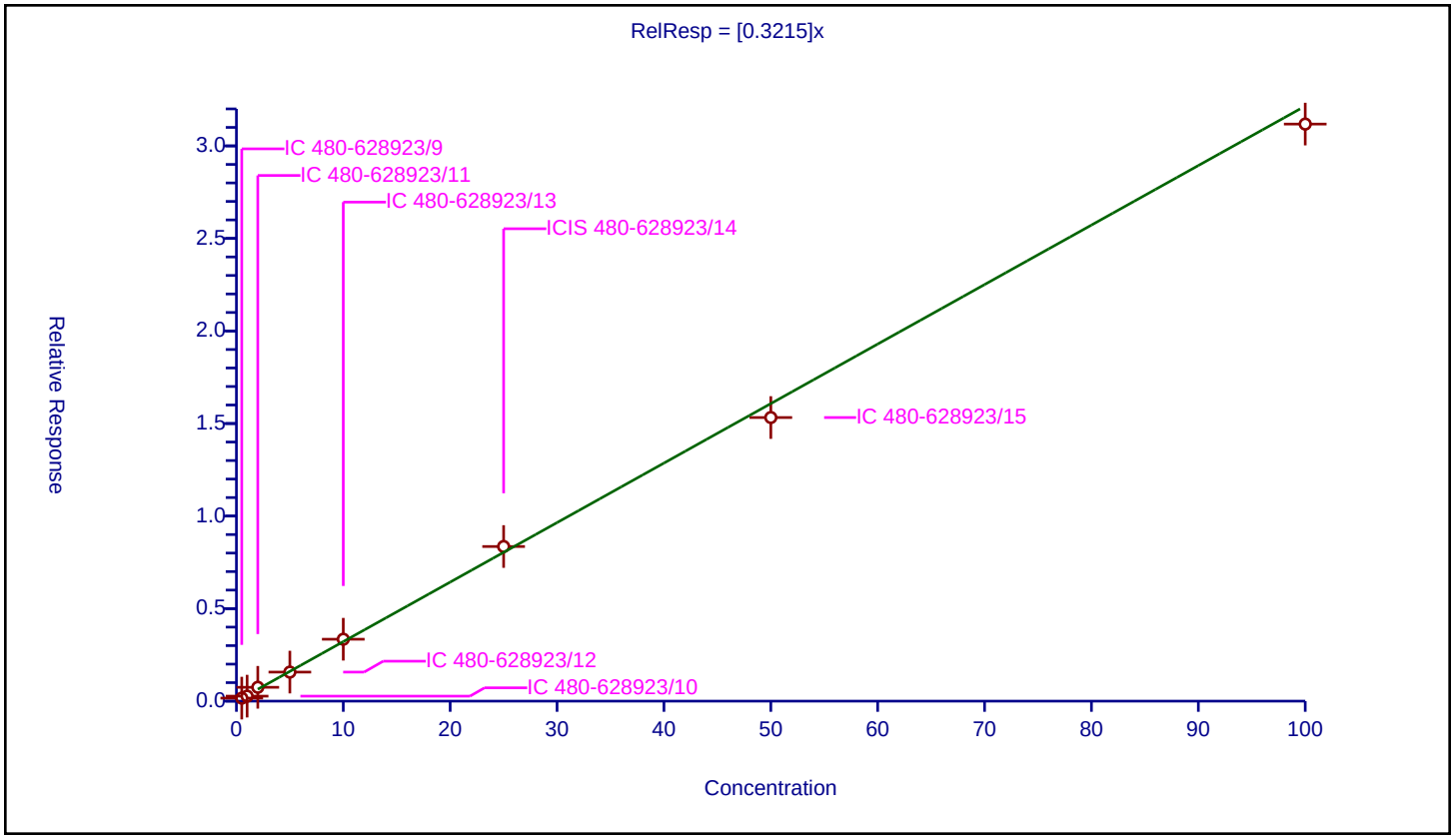
Curve Coefficients

Intercept:	0
Slope:	0.3215

Error Coefficients

Standard Error:	228000
Relative Standard Error:	9.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.163988	25.0	430824.0	0.327976	Y
2	IC 480-628923/10	1.0	0.269608	25.0	395389.0	0.269608	Y
3	IC 480-628923/11	2.0	0.747747	25.0	409196.0	0.373873	Y
4	IC 480-628923/12	5.0	1.569394	25.0	395965.0	0.313879	Y
5	IC 480-628923/13	10.0	3.345481	25.0	389802.0	0.334548	Y
6	ICIS 480-628923/14	25.0	8.354271	25.0	392826.0	0.334171	Y
7	IC 480-628923/15	50.0	15.323445	25.0	424322.0	0.306469	Y
8	IC 480-628923/16	100.0	31.179935	25.0	421040.0	0.311799	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

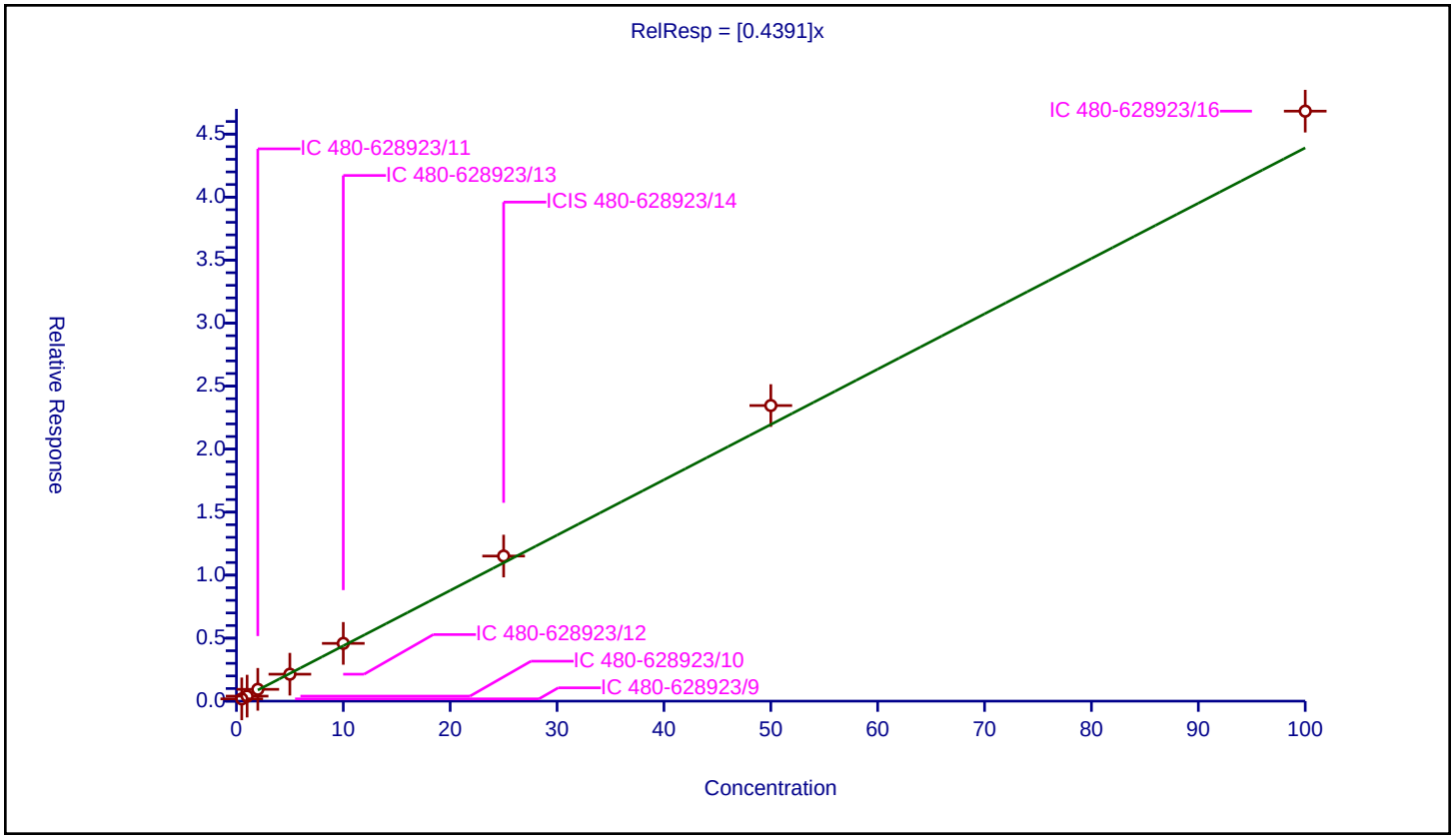
Curve Coefficients

Intercept:	0
Slope:	0.4391

Error Coefficients

Standard Error:	342000
Relative Standard Error:	9.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.181281	25.0	430824.0	0.362561	Y
2	IC 480-628923/10	1.0	0.39771	25.0	395389.0	0.39771	Y
3	IC 480-628923/11	2.0	0.937143	25.0	409196.0	0.468571	Y
4	IC 480-628923/12	5.0	2.1375	25.0	395965.0	0.4275	Y
5	IC 480-628923/13	10.0	4.583032	25.0	389802.0	0.458303	Y
6	ICIS 480-628923/14	25.0	11.513049	25.0	392826.0	0.460522	Y
7	IC 480-628923/15	50.0	23.459071	25.0	424322.0	0.469181	Y
8	IC 480-628923/16	100.0	46.820492	25.0	421040.0	0.468205	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

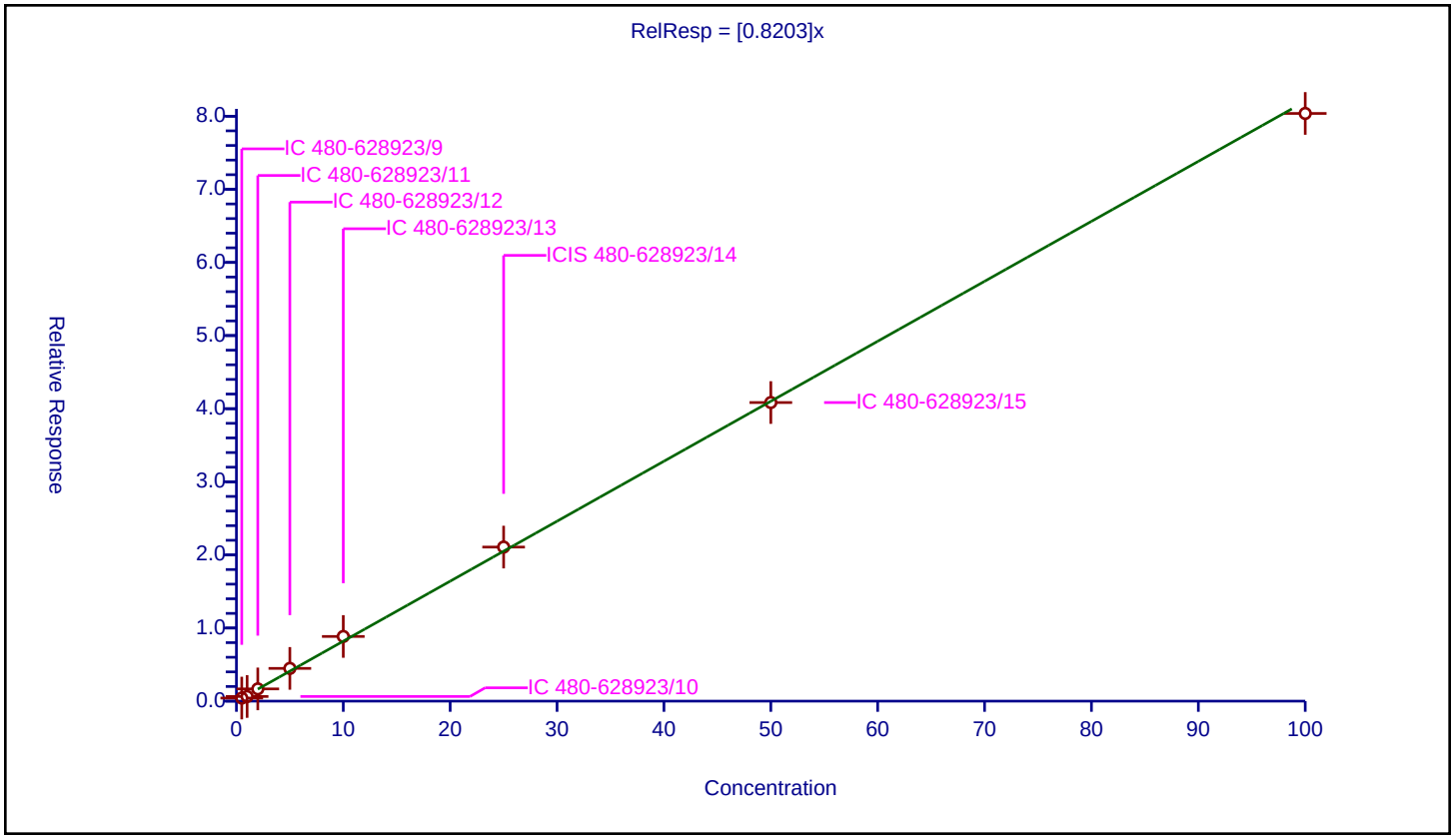
Curve Coefficients

Intercept:	0
Slope:	0.8203

Error Coefficients

Standard Error:	591000
Relative Standard Error:	9.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.422156	25.0	430824.0	0.844312	Y
2	IC 480-628923/10	1.0	0.636399	25.0	395389.0	0.636399	Y
3	IC 480-628923/11	2.0	1.67542	25.0	409196.0	0.83771	Y
4	IC 480-628923/12	5.0	4.478047	25.0	395965.0	0.895609	Y
5	IC 480-628923/13	10.0	8.846992	25.0	389802.0	0.884699	Y
6	ICIS 480-628923/14	25.0	21.072243	25.0	392826.0	0.84289	Y
7	IC 480-628923/15	50.0	40.839681	25.0	424322.0	0.816794	Y
8	IC 480-628923/16	100.0	80.376211	25.0	421040.0	0.803762	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

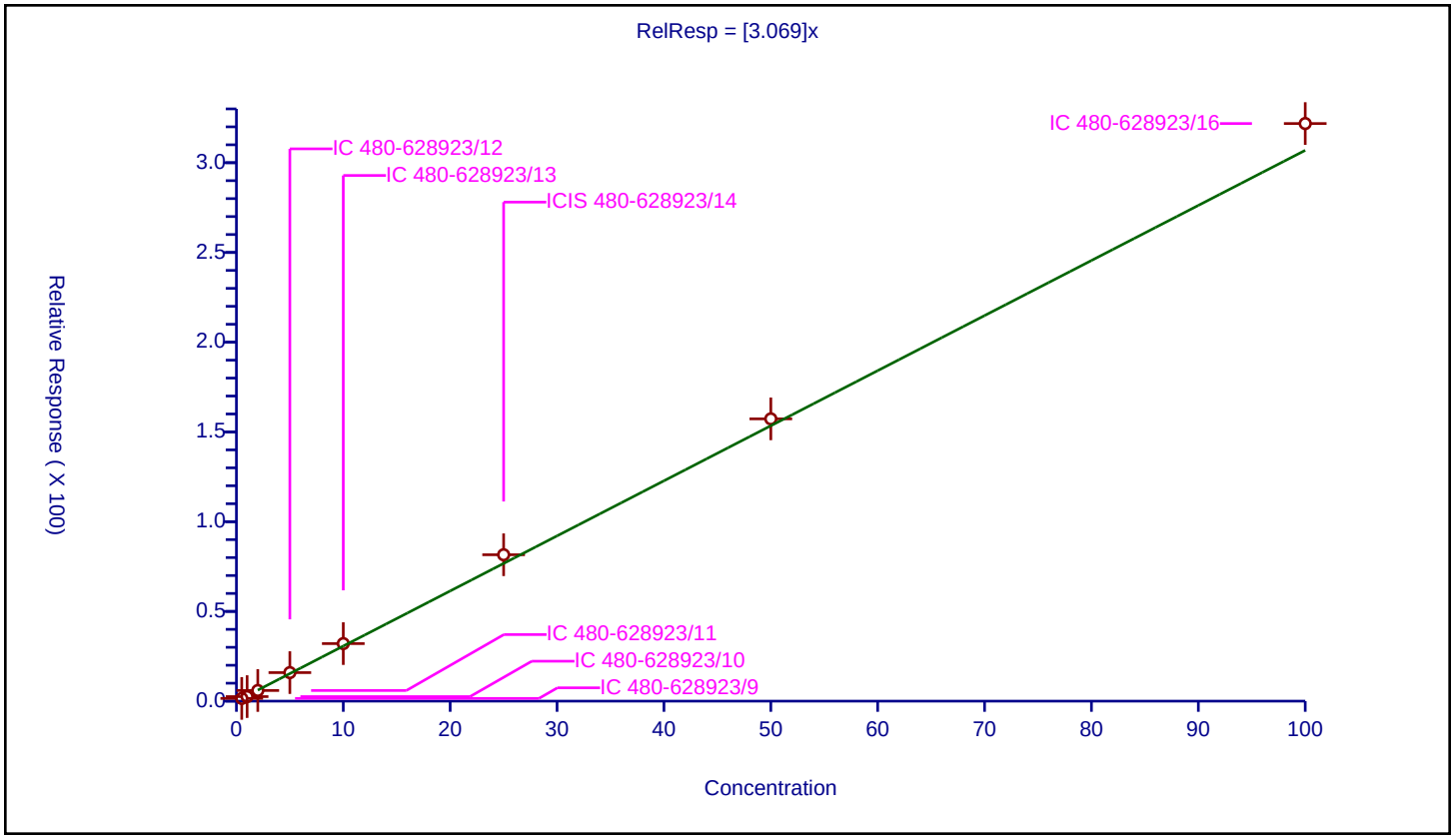
Curve Coefficients

Intercept:	0
Slope:	3.069

Error Coefficients

Standard Error:	2340000
Relative Standard Error:	7.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	1.524288	25.0	430824.0	3.048577	Y
2	IC 480-628923/10	1.0	2.524033	25.0	395389.0	2.524033	Y
3	IC 480-628923/11	2.0	5.935542	25.0	409196.0	2.967771	Y
4	IC 480-628923/12	5.0	15.896607	25.0	395965.0	3.179321	Y
5	IC 480-628923/13	10.0	32.062496	25.0	389802.0	3.20625	Y
6	ICIS 480-628923/14	25.0	81.565948	25.0	392826.0	3.262638	Y
7	IC 480-628923/15	50.0	157.284209	25.0	424322.0	3.145684	Y
8	IC 480-628923/16	100.0	321.836286	25.0	421040.0	3.218363	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

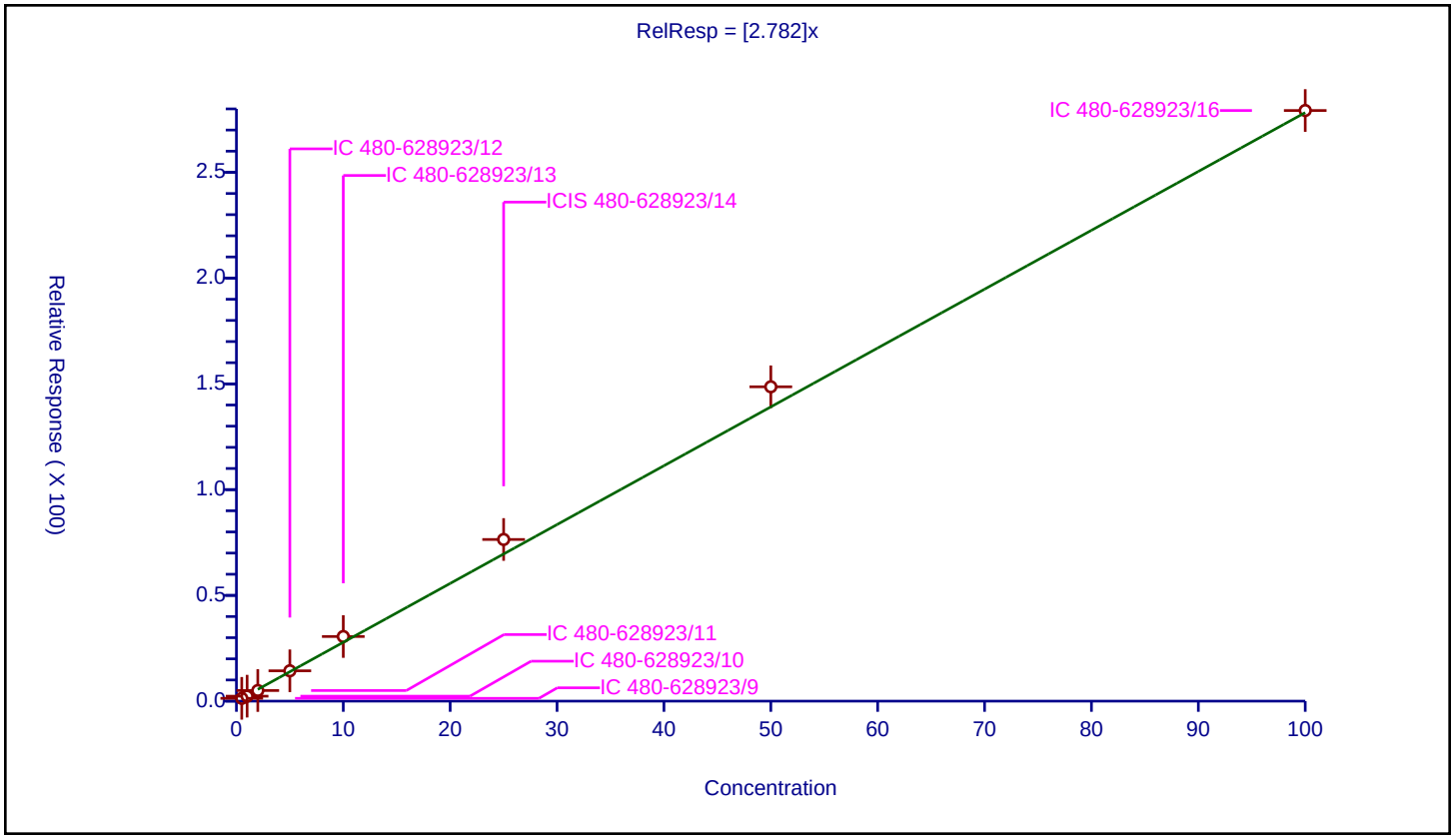
Curve Coefficients

Intercept:	0
Slope:	2.782

Error Coefficients

Standard Error:	2080000
Relative Standard Error:	9.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	1.329777	25.0	430824.0	2.659555	Y
2	IC 480-628923/10	1.0	2.342883	25.0	395389.0	2.342883	Y
3	IC 480-628923/11	2.0	5.020699	25.0	409196.0	2.51035	Y
4	IC 480-628923/12	5.0	14.346154	25.0	395965.0	2.869231	Y
5	IC 480-628923/13	10.0	30.559746	25.0	389802.0	3.055975	Y
6	ICIS 480-628923/14	25.0	76.423786	25.0	392826.0	3.056951	Y
7	IC 480-628923/15	50.0	148.61155	25.0	424322.0	2.972231	Y
8	IC 480-628923/16	100.0	279.235049	25.0	421040.0	2.79235	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

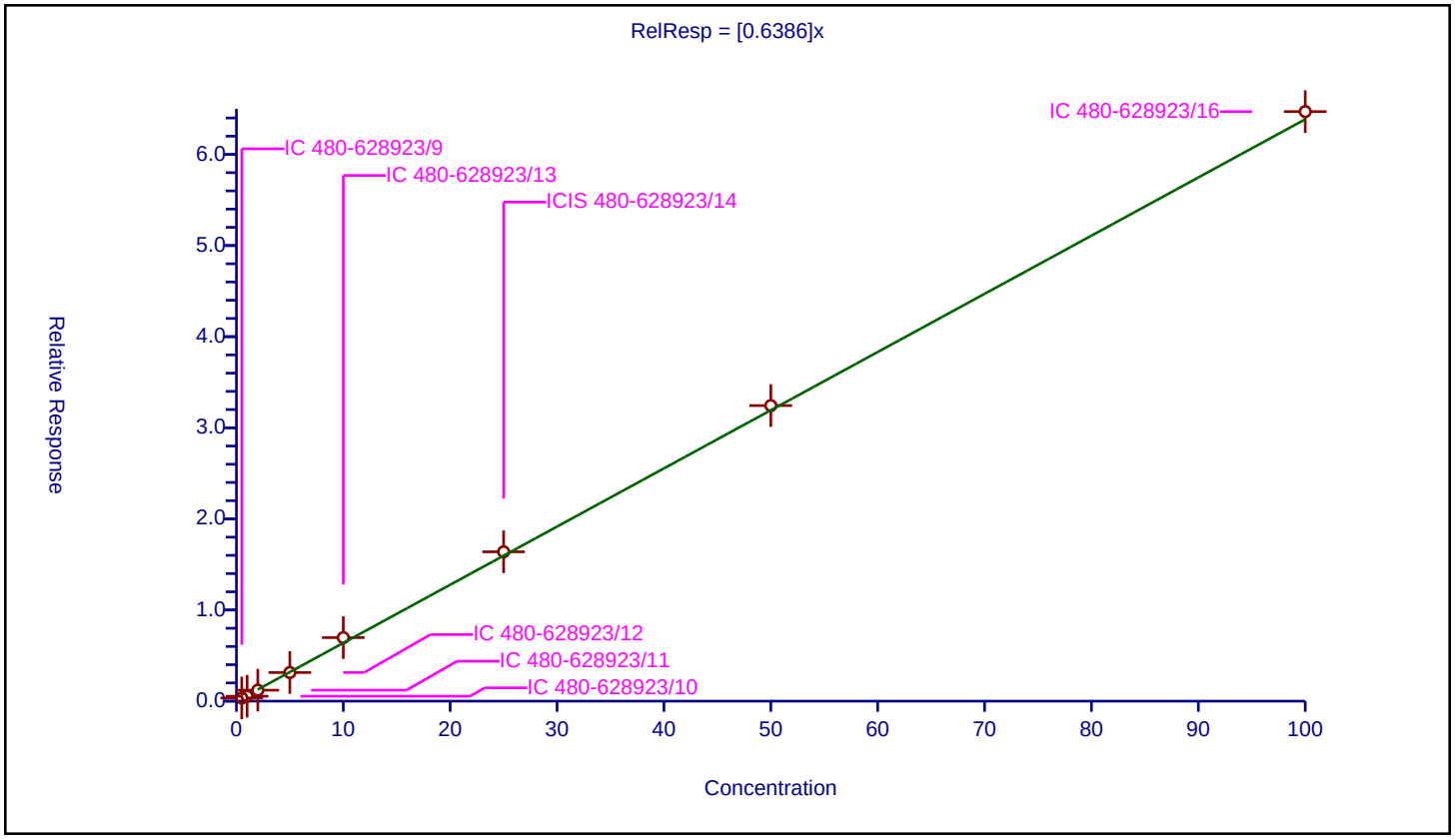
Curve Coefficients

Intercept:	0
Slope:	0.6386

Error Coefficients

Standard Error:	474000
Relative Standard Error:	7.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.34492	25.0	430824.0	0.689841	Y
2	IC 480-628923/10	1.0	0.540923	25.0	395389.0	0.540923	Y
3	IC 480-628923/11	2.0	1.201869	25.0	409196.0	0.600935	Y
4	IC 480-628923/12	5.0	3.140808	25.0	395965.0	0.628162	Y
5	IC 480-628923/13	10.0	6.97354	25.0	389802.0	0.697354	Y
6	ICIS 480-628923/14	25.0	16.390399	25.0	392826.0	0.655616	Y
7	IC 480-628923/15	50.0	32.438573	25.0	424322.0	0.648771	Y
8	IC 480-628923/16	100.0	64.703057	25.0	421040.0	0.647031	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

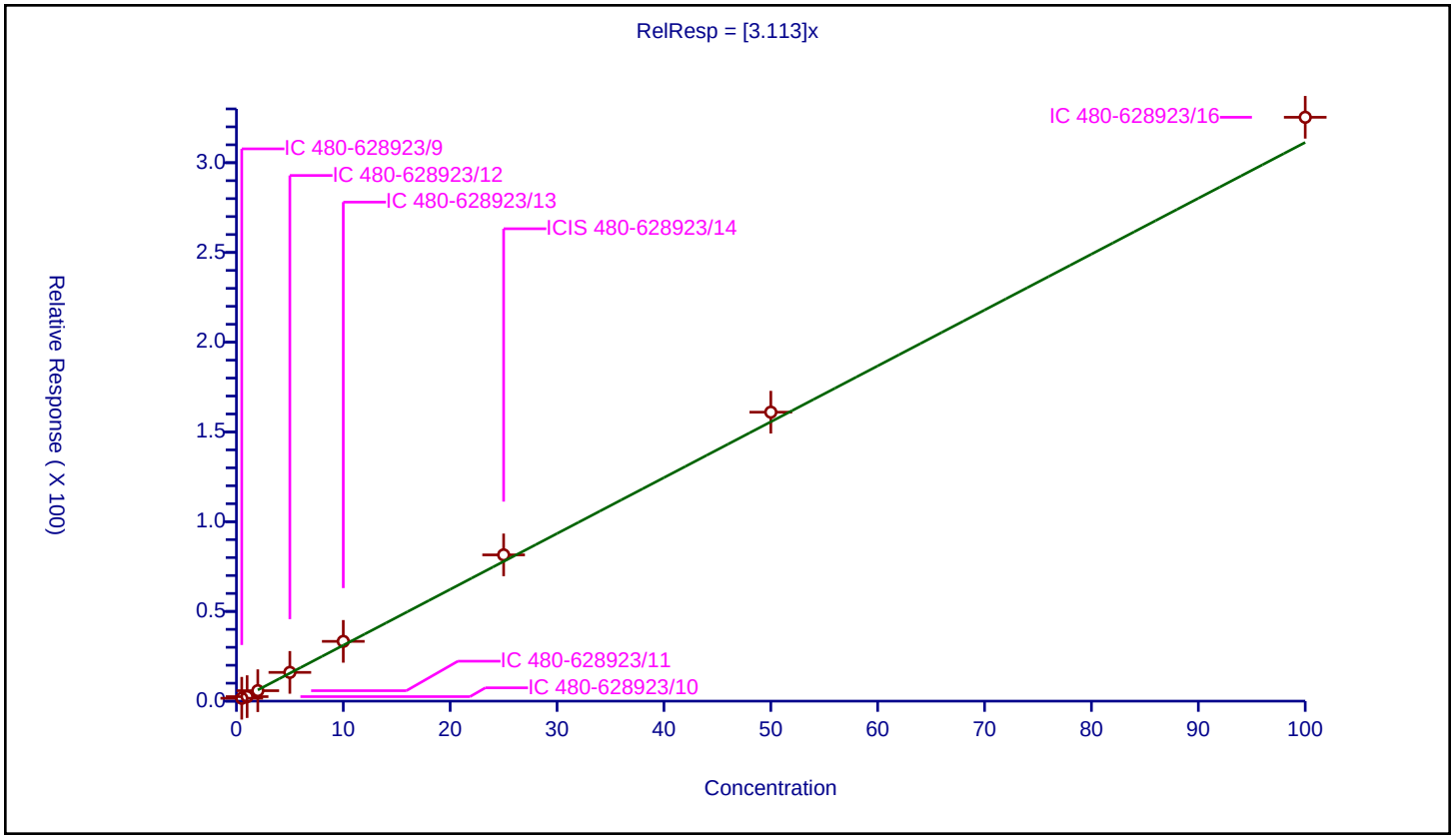
Curve Coefficients

Intercept:	0
Slope:	3.113

Error Coefficients

Standard Error:	2370000
Relative Standard Error:	8.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	1.604309	25.0	430824.0	3.208619	Y
2	IC 480-628923/10	1.0	2.518722	25.0	395389.0	2.518722	Y
3	IC 480-628923/11	2.0	5.821355	25.0	409196.0	2.910677	Y
4	IC 480-628923/12	5.0	16.01562	25.0	395965.0	3.203124	Y
5	IC 480-628923/13	10.0	33.313387	25.0	389802.0	3.331339	Y
6	ICIS 480-628923/14	25.0	81.493269	25.0	392826.0	3.259731	Y
7	IC 480-628923/15	50.0	161.01522	25.0	424322.0	3.220304	Y
8	IC 480-628923/16	100.0	325.320694	25.0	421040.0	3.253207	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

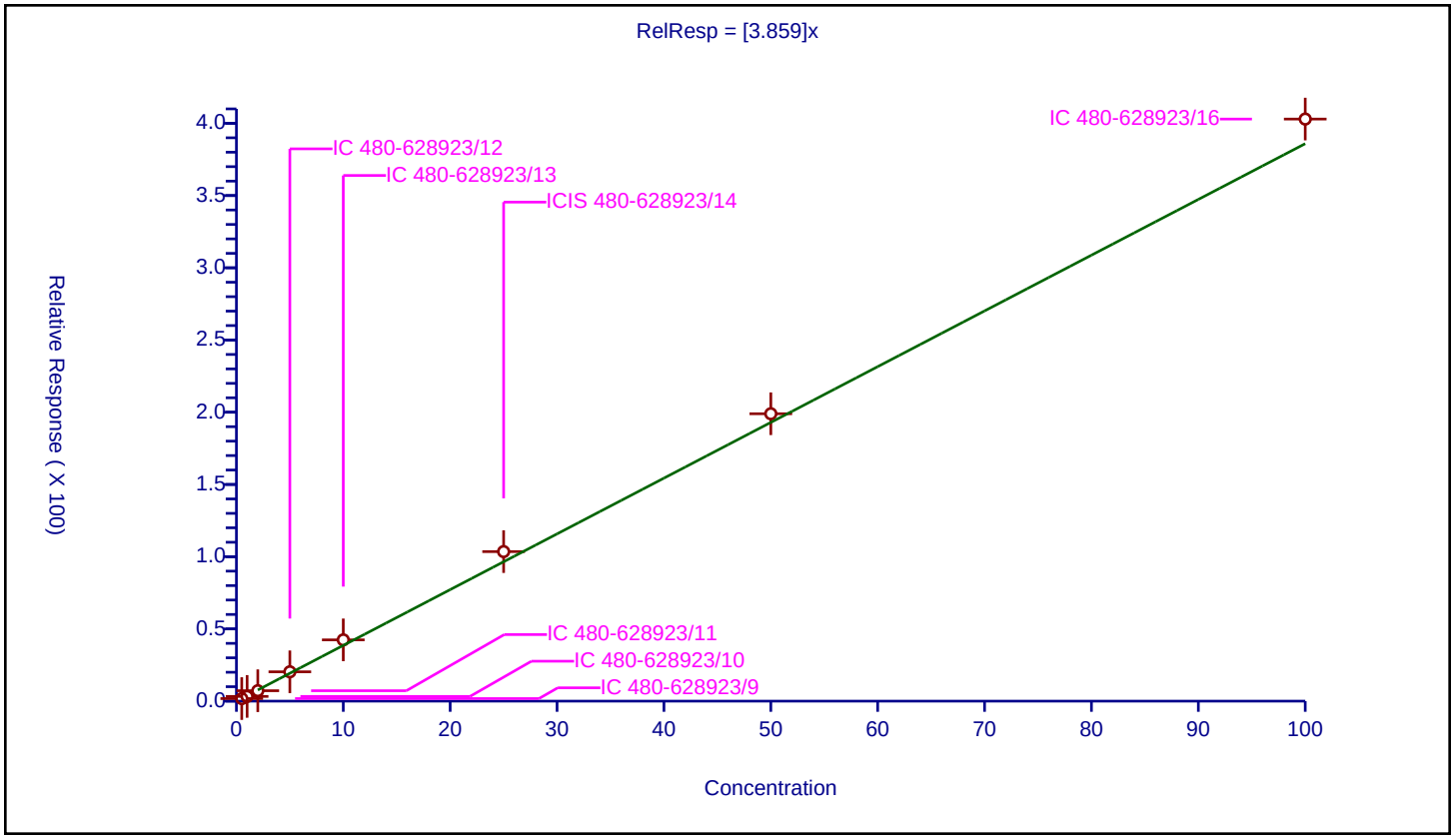
Curve Coefficients

Intercept:	0
Slope:	3.859

Error Coefficients

Standard Error:	2940000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	1.771199	25.0	430824.0	3.542398	Y
2	IC 480-628923/10	1.0	3.267036	25.0	395389.0	3.267036	Y
3	IC 480-628923/11	2.0	7.217751	25.0	409196.0	3.608876	Y
4	IC 480-628923/12	5.0	20.318336	25.0	395965.0	4.063667	Y
5	IC 480-628923/13	10.0	42.420062	25.0	389802.0	4.242006	Y
6	ICIS 480-628923/14	25.0	103.51587	25.0	392826.0	4.140635	Y
7	IC 480-628923/15	50.0	198.965644	25.0	424322.0	3.979313	Y
8	IC 480-628923/16	100.0	402.95061	25.0	421040.0	4.029506	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

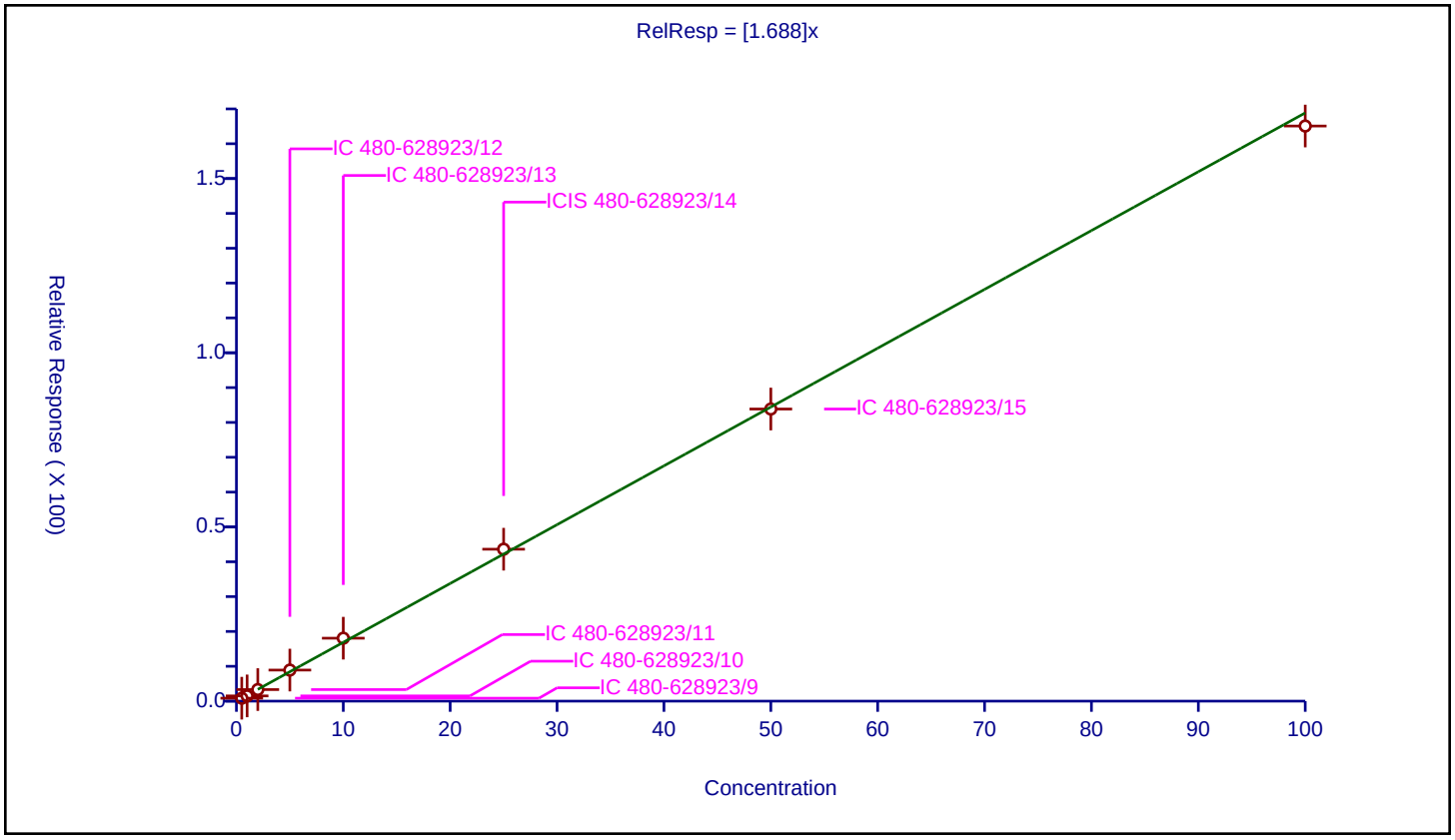
Curve Coefficients

Intercept:	0
Slope:	1.688

Error Coefficients

Standard Error:	1210000
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.841469	25.0	430824.0	1.682938	Y
2	IC 480-628923/10	1.0	1.500674	25.0	395389.0	1.500674	Y
3	IC 480-628923/11	2.0	3.323346	25.0	409196.0	1.661673	Y
4	IC 480-628923/12	5.0	8.917644	25.0	395965.0	1.783529	Y
5	IC 480-628923/13	10.0	18.066031	25.0	389802.0	1.806603	Y
6	ICIS 480-628923/14	25.0	43.61333	25.0	392826.0	1.744533	Y
7	IC 480-628923/15	50.0	83.845287	25.0	424322.0	1.676906	Y
8	IC 480-628923/16	100.0	165.083662	25.0	421040.0	1.650837	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

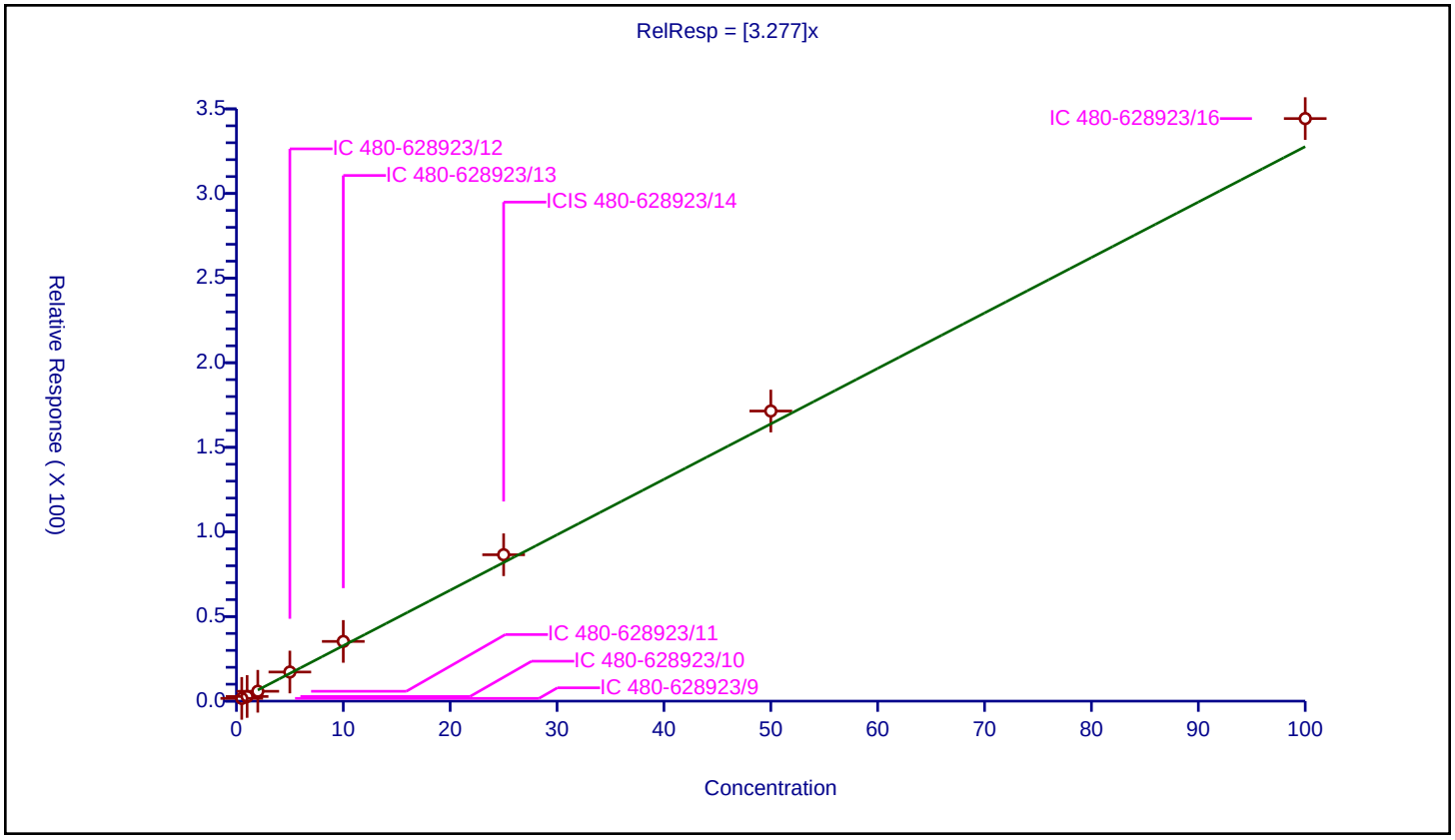
Curve Coefficients

Intercept:	0
Slope:	3.277

Error Coefficients

Standard Error:	2520000
Relative Standard Error:	8.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	1.624561	25.0	430824.0	3.249123	Y
2	IC 480-628923/10	1.0	2.749634	25.0	395389.0	2.749634	Y
3	IC 480-628923/11	2.0	5.825753	25.0	409196.0	2.912877	Y
4	IC 480-628923/12	5.0	17.217494	25.0	395965.0	3.443499	Y
5	IC 480-628923/13	10.0	35.294842	25.0	389802.0	3.529484	Y
6	ICIS 480-628923/14	25.0	86.521577	25.0	392826.0	3.460863	Y
7	IC 480-628923/15	50.0	171.453696	25.0	424322.0	3.429074	Y
8	IC 480-628923/16	100.0	344.265272	25.0	421040.0	3.442653	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

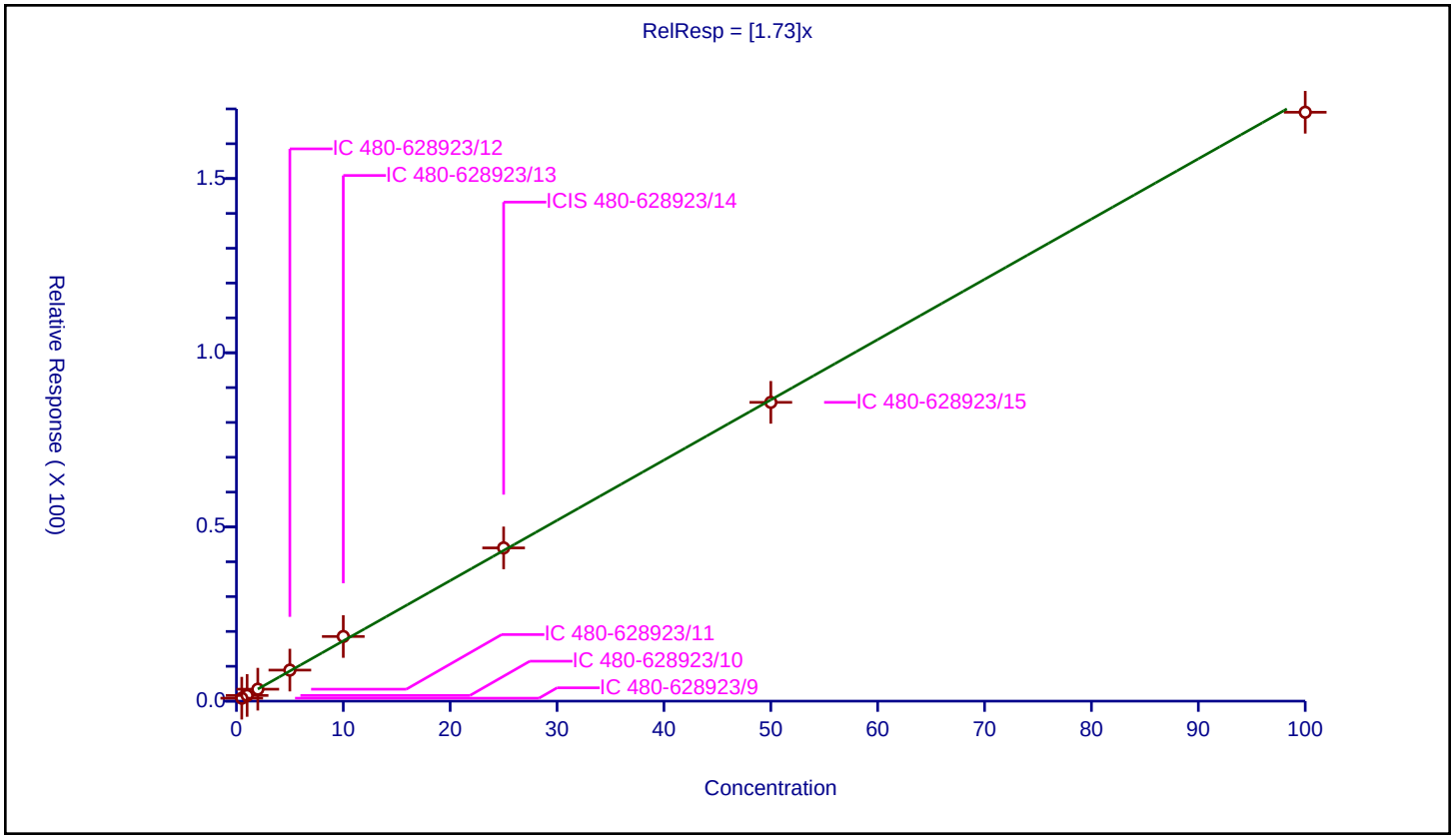
Curve Coefficients

Intercept:	0
Slope:	1.73

Error Coefficients

Standard Error:	1240000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.845125	25.0	430824.0	1.690249	Y
2	IC 480-628923/10	1.0	1.629598	25.0	395389.0	1.629598	Y
3	IC 480-628923/11	2.0	3.42953	25.0	409196.0	1.714765	Y
4	IC 480-628923/12	5.0	8.908489	25.0	395965.0	1.781698	Y
5	IC 480-628923/13	10.0	18.556985	25.0	389802.0	1.855699	Y
6	ICIS 480-628923/14	25.0	43.988114	25.0	392826.0	1.759525	Y
7	IC 480-628923/15	50.0	85.767589	25.0	424322.0	1.715352	Y
8	IC 480-628923/16	100.0	169.039877	25.0	421040.0	1.690399	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

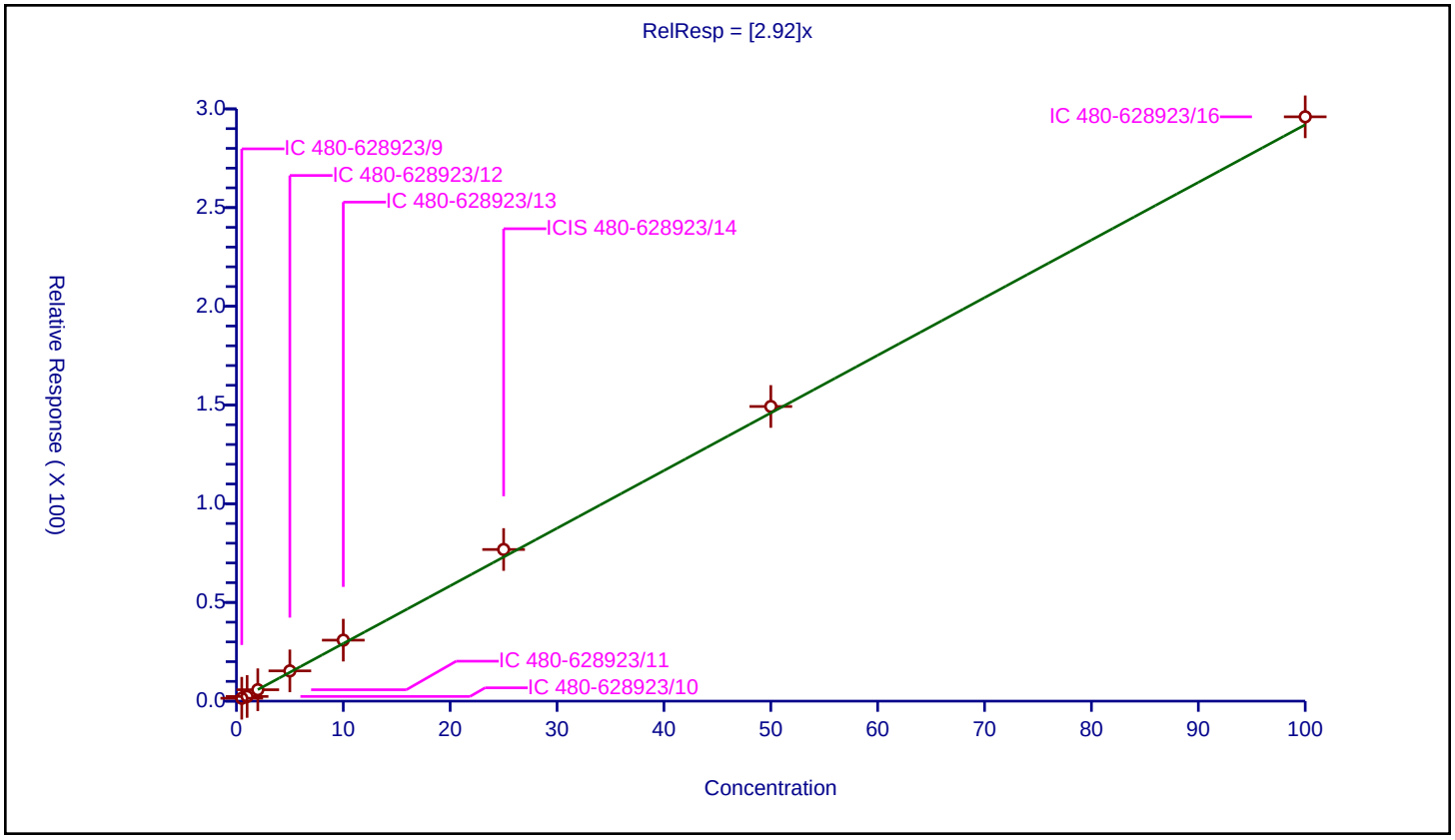
Curve Coefficients

Intercept:	0
Slope:	2.92

Error Coefficients

Standard Error:	2170000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	1.464229	25.0	430824.0	2.928458	Y
2	IC 480-628923/10	1.0	2.365645	25.0	395389.0	2.365645	Y
3	IC 480-628923/11	2.0	5.785247	25.0	409196.0	2.892624	Y
4	IC 480-628923/12	5.0	15.326102	25.0	395965.0	3.06522	Y
5	IC 480-628923/13	10.0	30.884462	25.0	389802.0	3.088446	Y
6	ICIS 480-628923/14	25.0	76.819253	25.0	392826.0	3.07277	Y
7	IC 480-628923/15	50.0	149.266418	25.0	424322.0	2.985328	Y
8	IC 480-628923/16	100.0	295.998717	25.0	421040.0	2.959987	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

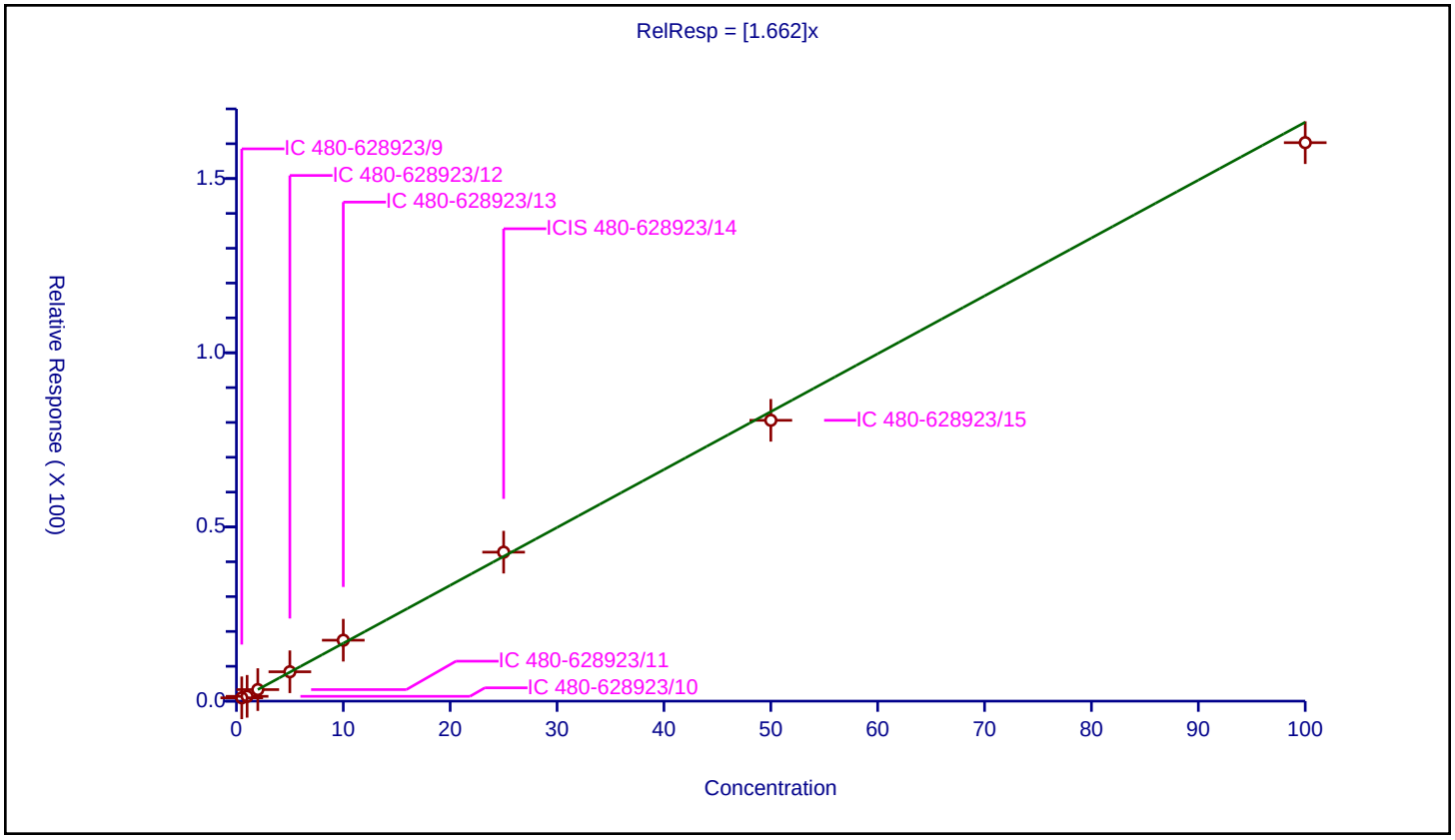
Curve Coefficients

Intercept:	0
Slope:	1.662

Error Coefficients

Standard Error:	1180000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.949924	25.0	430824.0	1.899848	Y
2	IC 480-628923/10	1.0	1.37801	25.0	395389.0	1.37801	Y
3	IC 480-628923/11	2.0	3.313266	25.0	409196.0	1.656633	Y
4	IC 480-628923/12	5.0	8.426692	25.0	395965.0	1.685338	Y
5	IC 480-628923/13	10.0	17.484261	25.0	389802.0	1.748426	Y
6	ICIS 480-628923/14	25.0	42.766136	25.0	392826.0	1.710645	Y
7	IC 480-628923/15	50.0	80.610126	25.0	424322.0	1.612203	Y
8	IC 480-628923/16	100.0	160.304009	25.0	421040.0	1.60304	Y



Calibration / 1,2-Dibromo-3-Chloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

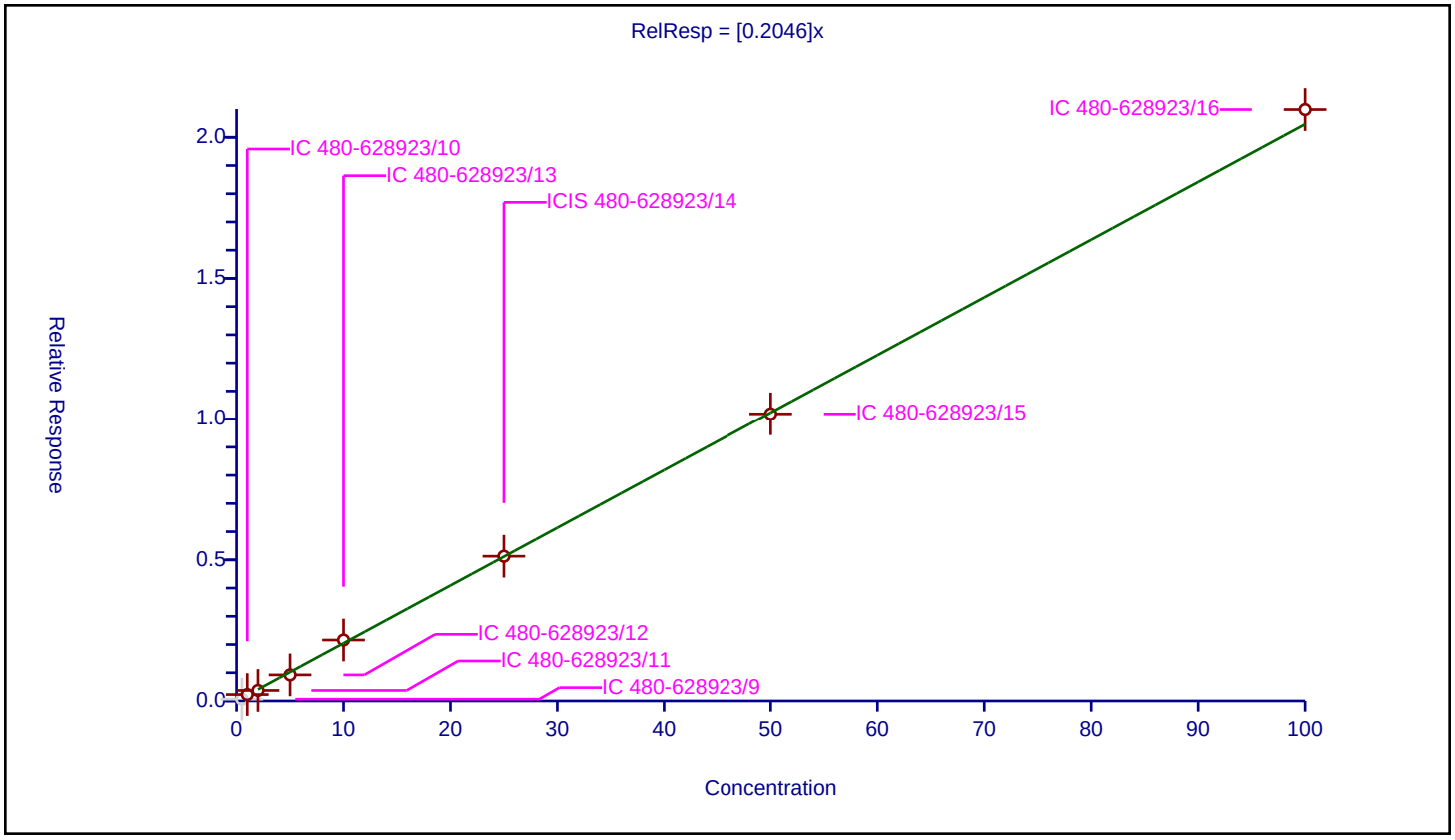
Curve Coefficients

Intercept:	0
Slope:	0.2046

Error Coefficients

Standard Error:	165000
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.063657	25.0	430824.0	0.127314	N
2	IC 480-628923/10	1.0	0.226676	25.0	395389.0	0.226676	Y
3	IC 480-628923/11	2.0	0.372682	25.0	409196.0	0.186341	Y
4	IC 480-628923/12	5.0	0.923945	25.0	395965.0	0.184789	Y
5	IC 480-628923/13	10.0	2.159558	25.0	389802.0	0.215956	Y
6	ICIS 480-628923/14	25.0	5.129307	25.0	392826.0	0.205172	Y
7	IC 480-628923/15	50.0	10.188901	25.0	424322.0	0.203778	Y
8	IC 480-628923/16	100.0	20.981676	25.0	421040.0	0.209817	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

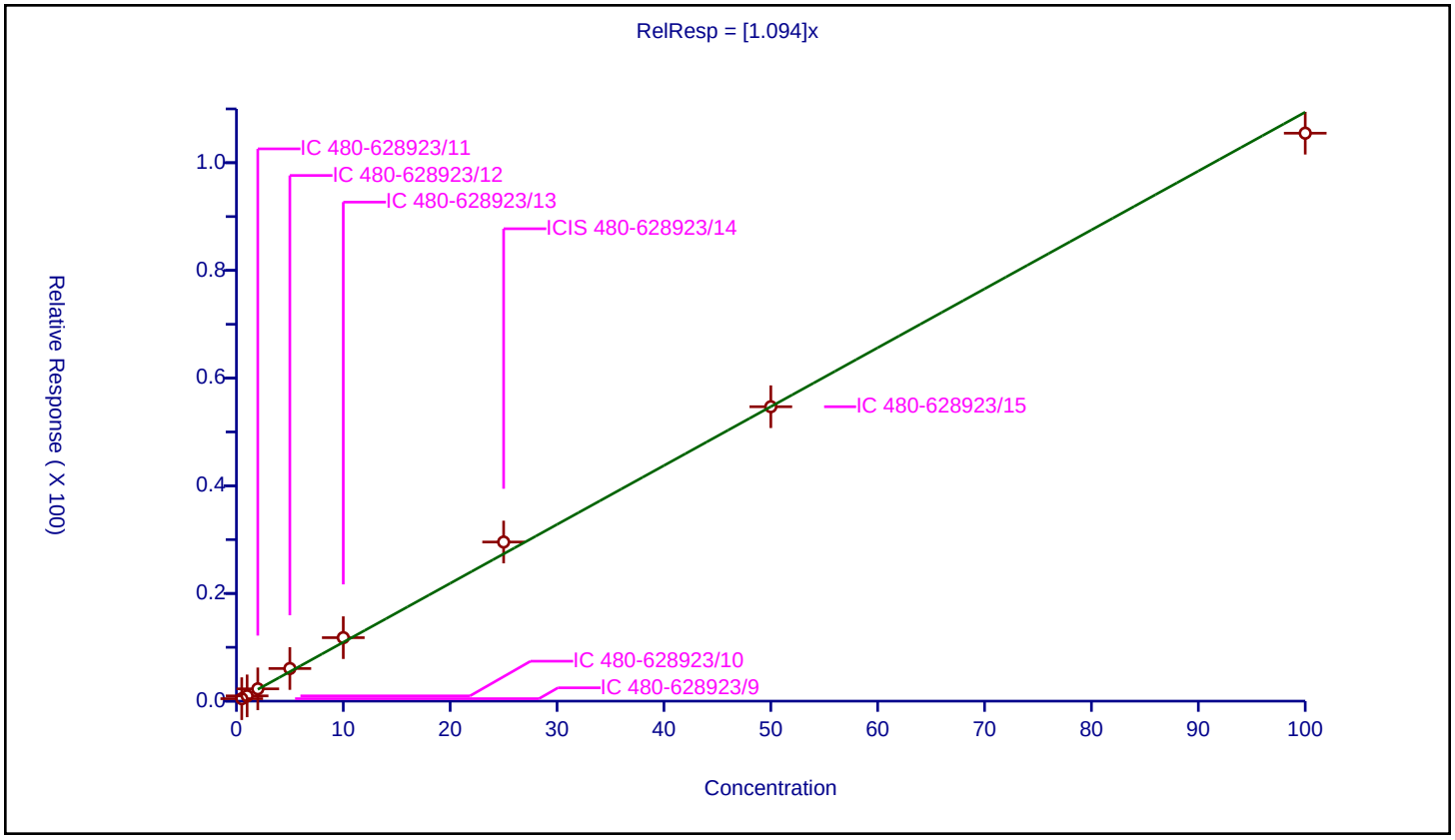
Curve Coefficients

Intercept:	0
Slope:	1.094

Error Coefficients

Standard Error:	782000
Relative Standard Error:	9.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.455871	25.0	430824.0	0.911741	Y
2	IC 480-628923/10	1.0	0.977013	25.0	395389.0	0.977013	Y
3	IC 480-628923/11	2.0	2.28338	25.0	409196.0	1.14169	Y
4	IC 480-628923/12	5.0	6.057543	25.0	395965.0	1.211509	Y
5	IC 480-628923/13	10.0	11.788293	25.0	389802.0	1.178829	Y
6	ICIS 480-628923/14	25.0	29.555452	25.0	392826.0	1.182218	Y
7	IC 480-628923/15	50.0	54.686948	25.0	424322.0	1.093739	Y
8	IC 480-628923/16	100.0	105.487305	25.0	421040.0	1.054873	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

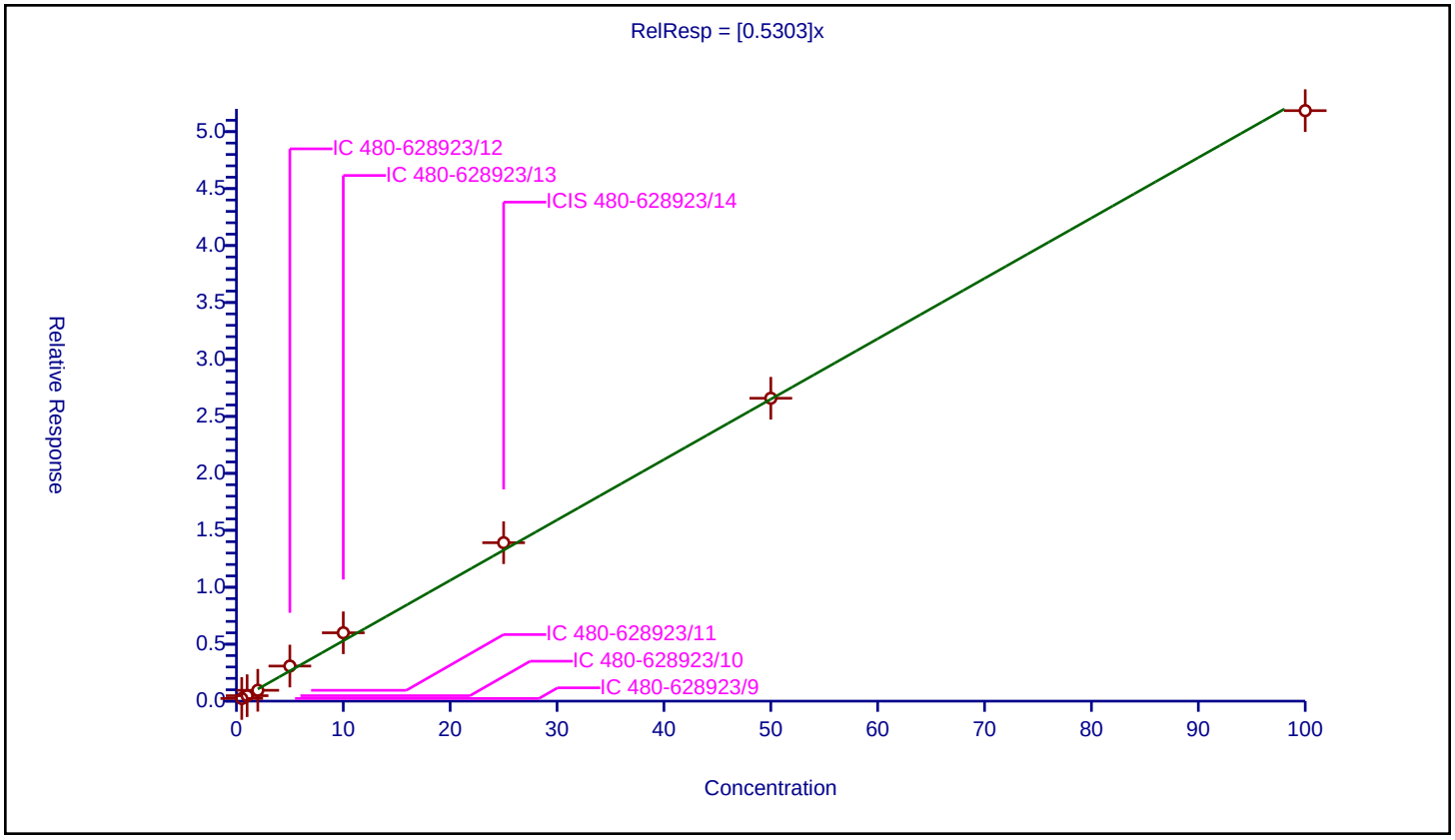
Curve Coefficients

Intercept:	0
Slope:	0.5303

Error Coefficients

Standard Error:	383000
Relative Standard Error:	10.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.231707	25.0	430824.0	0.463414	Y
2	IC 480-628923/10	1.0	0.479022	25.0	395389.0	0.479022	Y
3	IC 480-628923/11	2.0	0.952722	25.0	409196.0	0.476361	Y
4	IC 480-628923/12	5.0	3.081333	25.0	395965.0	0.616267	Y
5	IC 480-628923/13	10.0	6.001893	25.0	389802.0	0.600189	Y
6	ICIS 480-628923/14	25.0	13.910039	25.0	392826.0	0.556402	Y
7	IC 480-628923/15	50.0	26.595192	25.0	424322.0	0.531904	Y
8	IC 480-628923/16	100.0	51.845549	25.0	421040.0	0.518455	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

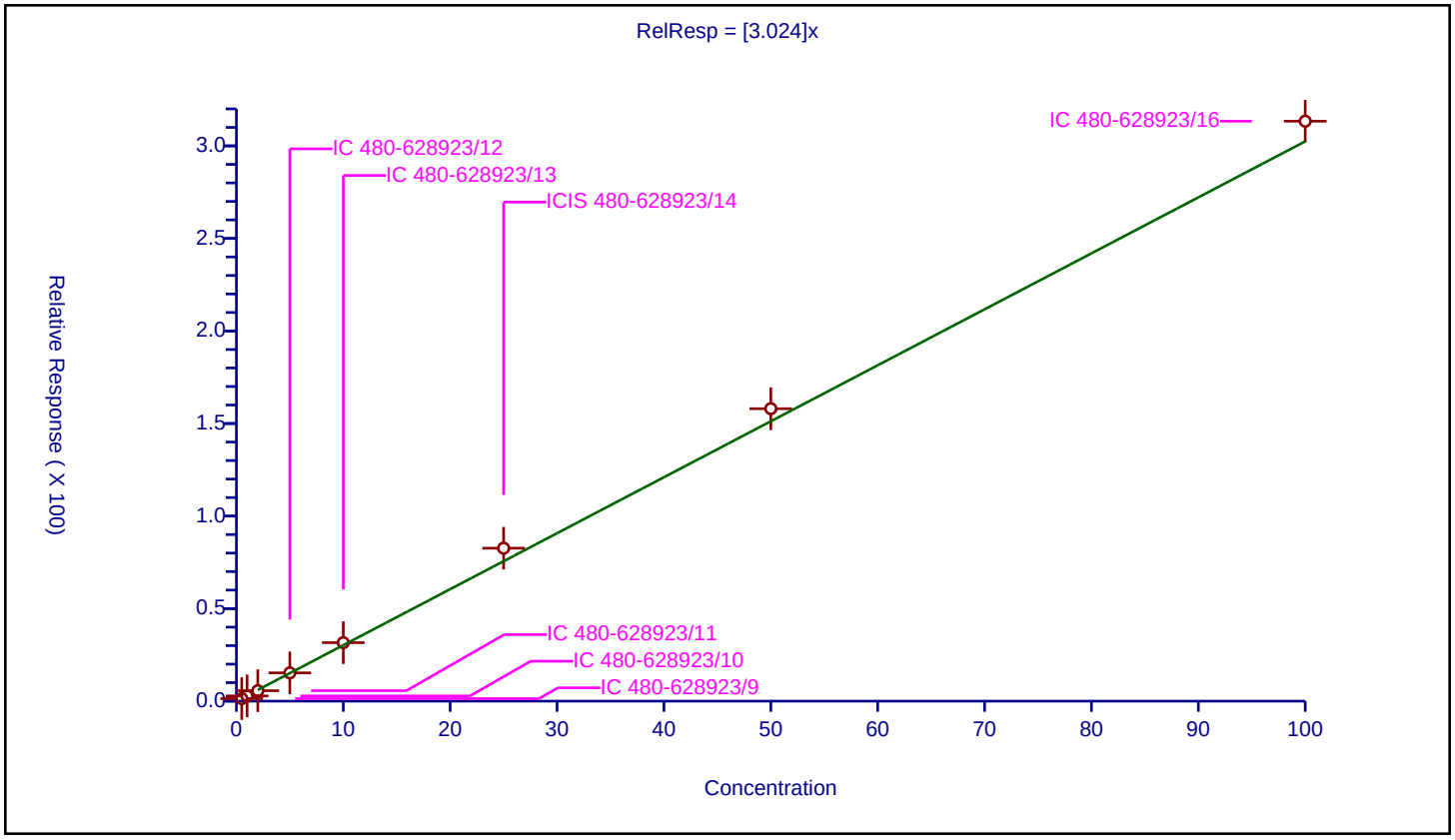
Curve Coefficients

Intercept:	0
Slope:	3.024

Error Coefficients

Standard Error:	2300000
Relative Standard Error:	6.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	1.372486	25.0	430824.0	2.744972	Y
2	IC 480-628923/10	1.0	2.811535	25.0	395389.0	2.811535	Y
3	IC 480-628923/11	2.0	5.648271	25.0	409196.0	2.824136	Y
4	IC 480-628923/12	5.0	15.273383	25.0	395965.0	3.054677	Y
5	IC 480-628923/13	10.0	31.594887	25.0	389802.0	3.159489	Y
6	ICIS 480-628923/14	25.0	82.632387	25.0	392826.0	3.305295	Y
7	IC 480-628923/15	50.0	158.024272	25.0	424322.0	3.160485	Y
8	IC 480-628923/16	100.0	313.348375	25.0	421040.0	3.133484	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

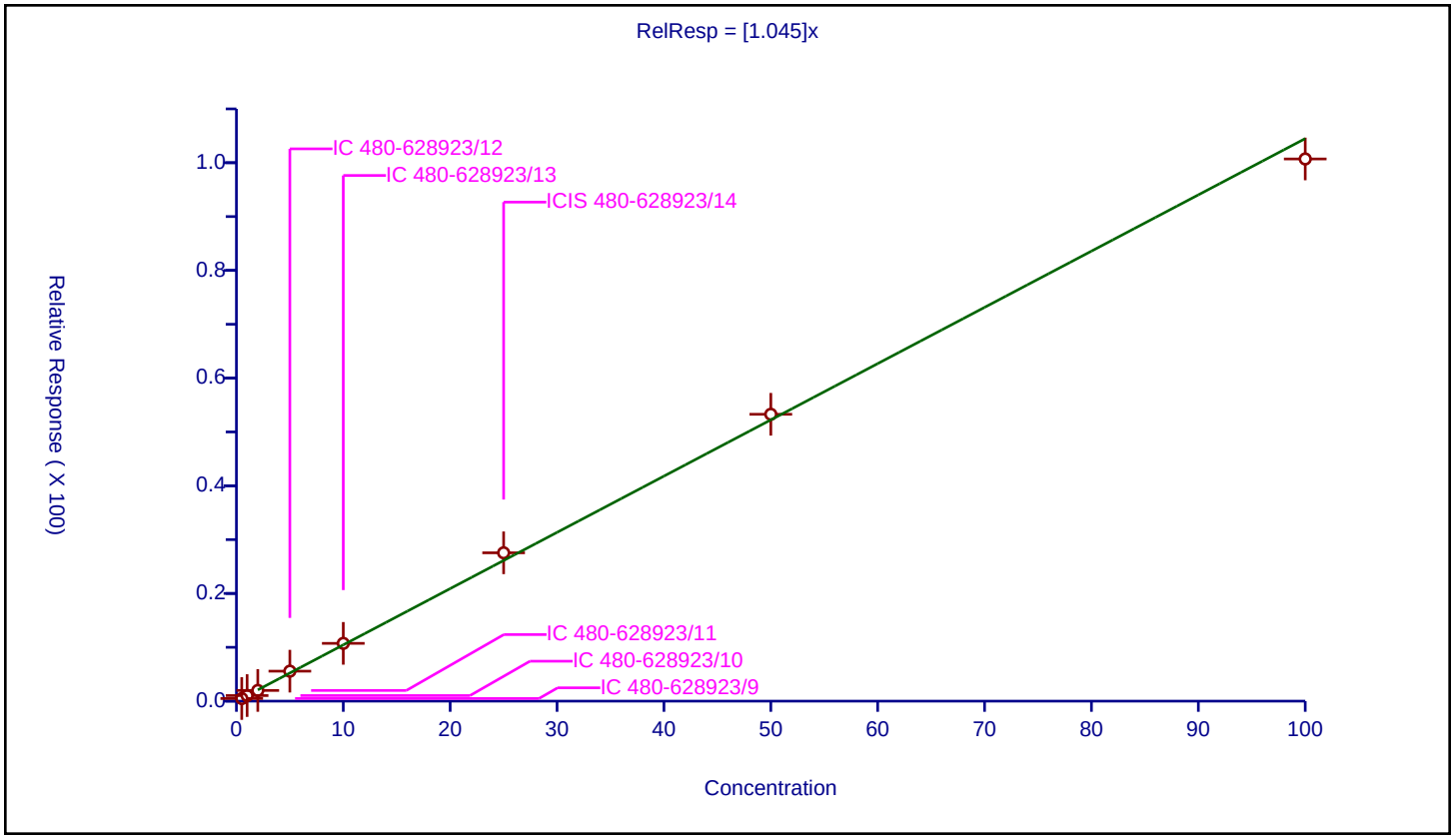
Curve Coefficients

Intercept:	0
Slope:	1.045

Error Coefficients

Standard Error:	748000
Relative Standard Error:	5.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-628923/9	0.5	0.485349	25.0	430824.0	0.970698	Y
2	IC 480-628923/10	1.0	1.034488	25.0	395389.0	1.034488	Y
3	IC 480-628923/11	2.0	1.983768	25.0	409196.0	0.991884	Y
4	IC 480-628923/12	5.0	5.567348	25.0	395965.0	1.11347	Y
5	IC 480-628923/13	10.0	10.732179	25.0	389802.0	1.073218	Y
6	ICIS 480-628923/14	25.0	27.548966	25.0	392826.0	1.101959	Y
7	IC 480-628923/15	50.0	53.280056	25.0	424322.0	1.065601	Y
8	IC 480-628923/16	100.0	100.701299	25.0	421040.0	1.007013	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 629405

SDG No.: 198720

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2022 15:00 Calibration End Date: 06/09/2022 17:34 Calibration ID: 43593

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-629405/10	D0721.D
Level 2	IC 480-629405/11	D0722.D
Level 3	IC 480-629405/12	D0723.D
Level 4	IC 480-629405/13	D0724.D
Level 5	IC 480-629405/14	D0725.D
Level 6	ICIS 480-629405/15	D0726.D
Level 7	IC 480-629405/16	D0727.D
Level 8	IC 480-629405/17	D0728.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.5867 1.7976	1.4189 1.7837	1.3275 1.7076	1.8213	1.9311	Ave		1.6718			0.1000	12.6		20.0			
Chloromethane	2.3638 2.0749	2.2664 2.0030	1.8578 1.8250	2.0923	2.1061	Ave		2.0737			0.1000	8.9		20.0			
Vinyl chloride	1.4422 1.4561	1.3465 1.4697	1.1381 1.3872	1.4497	1.5511	Ave		1.4051			0.1000	8.8		20.0			
Butadiene	1.1371 1.3227	1.1380 1.3269	0.9806 1.2059	1.1619	1.3857	Ave		1.2074				11.0		20.0			
Bromomethane	+++++ 0.9113	0.9665 0.8997	0.9683 0.8630	0.9980	1.0000	Ave		0.9438			0.1000	5.6		20.0			
Chloroethane	0.6797 0.6699	0.6468 0.6522	0.5737 0.6267	0.6705	0.7020	Ave		0.6527			0.1000	6.0		20.0			
Trichlorofluoromethane	1.7457 1.9159	1.6486 1.9072	1.4385 1.8048	1.9436	2.0185	Ave		1.8028			0.1000	10.5		20.0			
Dichlorofluoromethane	2.3575 1.9105	2.0298 1.8961	1.6756 1.7819	1.9152	2.0385	Ave		1.9506				10.4		20.0			
Ethyl ether	1.0859 1.0964	0.9390 1.0499	1.0762 1.0289	1.0502	1.1700	Ave		1.0621				6.2		20.0			
Acrolein	0.2288 0.2453	0.2389 0.2403	0.2411 0.2227	0.2252	0.2537	Ave		0.2370				4.5		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 1.1022	0.5631 1.2663	0.9458 1.2003	0.9766	1.2153	Lin1	-0.672	1.2182			0.1000	6.5			0.9980		0.9900
1,1-Dichloroethene	+++++ 1.0909	0.7046 1.1301	0.9484 1.0894	0.9457	1.1984	Lin1	-0.361	1.1117			0.1000	6.7			0.9990		0.9900
Acetone	+++++ 0.5794	0.7022 0.5643	0.6701 0.5215	0.5959	0.6233	Ave		0.6081			0.1000	10.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 629405

SDG No.: 198720

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2022 15:00 Calibration End Date: 06/09/2022 17:34 Calibration ID: 43593

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Iodomethane	2.1765 2.5894	1.9227 2.5926	2.4137 2.4597	2.2723	2.7394	Ave		2.3958				11.0		20.0			
Carbon disulfide	+++++ 3.9589	2.6729 4.1237	3.6183 3.9241	3.3829	4.2679	Ave		3.7070			0.1000	14.7		20.0			
Allyl chloride	2.7729 2.5255	2.0268 2.5066	2.4403 2.3281	2.2919	2.7736	Ave		2.4582				10.2		20.0			
Methyl acetate	1.5748 1.3513	1.4576 1.3209	1.4908 1.2434	1.4348	1.4740	Ave		1.4184			0.1000	7.5		20.0			
Methylene Chloride	1.7132 1.4281	1.2925 1.4179	1.4402 1.3293	1.3714	1.5440	Lin1	0.1251	1.3738			0.1000	8.1			0.9980		0.9900
2-Methyl-2-propanol	0.1478 0.1790	0.1587 0.1793	0.1648 0.1650	0.1759	0.1902	Ave		0.1701				8.0		20.0			
Methyl tert-butyl ether	3.2845 3.4428	2.9256 3.4701	3.1840 3.2797	3.1299	3.5220	Ave		3.2798			0.1000	6.1		20.0			
trans-1,2-Dichloroethene	1.0039 1.3254	0.9467 1.3468	1.2563 1.2704	1.1969	1.4357	Ave		1.2228			0.1000	13.8		20.0			
Acrylonitrile	0.7561 0.6672	0.7046 0.6814	0.7125 0.6244	0.7068	0.7512	Ave		0.7005				6.2		20.0			
Hexane	+++++ 2.0981	1.2580 2.1693	1.7830 2.1005	1.7576	2.2127	Lin1	-0.849	2.1381				5.9			0.9990		0.9900
1,1-Dichloroethane	2.5095 2.7113	2.0914 2.7417	2.6612 2.6222	2.5779	2.9646	Ave		2.6100			0.2000	9.6		20.0			
Vinyl acetate	3.3078 3.5675	2.9756 3.5468	3.3247 3.4557	3.3737	3.6805	Ave		3.4040				6.3		20.0			
2,2-Dichloropropane	1.4293 1.7727	1.1722 1.8166	1.6391 1.7080	1.5682	1.8818	Ave		1.6235				14.3		20.0			
cis-1,2-Dichloroethene	1.2687 1.5214	1.1876 1.5174	1.3996 1.4269	1.3692	1.5913	Ave		1.4102			0.1000	9.6		20.0			
2-Butanone (MEK)	1.0240 0.8285	0.8971 0.7924	0.9001 0.7715	0.8752	0.8625	Ave		0.8689			0.1000	9.0		20.0			
Chlorobromomethane	0.7917 0.9068	0.6999 0.8905	0.8530 0.8401	0.8397	0.9551	Ave		0.8471				9.1		20.0			
Tetrahydrofuran	0.6150 0.5164	0.5128 0.5109	0.5427 0.4813	0.5322	0.5475	Ave		0.5324				7.4		20.0			
Chloroform	2.8628 2.6109	2.2235 2.5698	2.5767 2.4280	2.4338	2.7717	Ave		2.5597			0.2000	7.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 629405

SDG No.: 198720

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2022 15:00 Calibration End Date: 06/09/2022 17:34 Calibration ID: 43593

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1,1-Trichloroethane	+++++ 2.1099	1.3383 2.1522	1.9563 2.0547	1.8730	2.2503	Lin1	-0.544	2.1075			0.1000	7.5			0.9990		0.9900
Cyclohexane	+++++ 2.7267	1.5460 2.8436	2.1600 2.7083	2.2597	2.8890	Lin1	-1.231	2.7764			0.1000	6.0			0.9990		0.9900
Carbon tetrachloride	+++++ 1.9408	1.2166 2.0030	1.7941 1.9296	1.6698	2.0780	Lin1	-0.612	1.9681			0.1000	7.2			0.9990		0.9900
1,1-Dichloropropene	0.9981 1.7376	1.0746 1.8165	1.5988 1.7712	1.5042	1.8645	Lin1	-0.443	1.7879				11.0			0.9990		0.9900
Benzene	4.4087 4.9190	3.7336 4.9207	4.8068 4.7041	4.5882	5.2146	Ave		4.6620			0.5000	9.6		20.0			
Isobutyl alcohol	0.0863 0.0795	0.0845 0.0791	0.0764 0.0718	0.0769	0.0829	Ave		0.0797				6.0		20.0			
1,2-Dichloroethane	2.3617 2.1086	1.9839 2.0621	2.2545 1.9841	2.0774	2.2083	Ave		2.1301			0.1000	6.3		20.0			
n-Heptane	+++++ 2.4826	1.4818 2.4738	2.0859 2.4358	2.1806	2.4160	Lin1	-0.923	2.4690				2.9			1.0000		0.9900
Trichloroethene	1.1084 1.3875	0.9140 1.4202	1.3128 1.4037	1.2534	1.4482	Ave		1.2810			0.2000	14.5		20.0			
Methylcyclohexane	+++++ 2.0899	1.1559 2.1899	1.6536 2.1285	1.6454	2.1912	Lin1	-1.106	2.1603			0.1000	7.2			0.9990		0.9900
1,2-Dichloropropane	1.2570 1.4622	1.1239 1.4628	1.4051 1.4529	1.3803	1.4854	Ave		1.3787			0.1000	9.1		20.0			
1,4-Dioxane	+++++ 0.0052	+++++ 0.0052	0.0035 0.0049	0.0034	0.0051	Lin1	-0.076	0.0051				11.3			0.9970		0.9900
Dibromomethane	0.9577 0.9734	0.8892 0.9512	0.9602 0.9296	0.9419	1.0104	Ave		0.9517			0.1000	3.7		20.0			
Bromodichloromethane	1.7124 1.8526	1.3613 1.8646	1.7376 1.8546	1.7276	1.8910	Ave		1.7502			0.2000	9.8		20.0			
2-Chloroethyl vinyl ether	+++++ 0.6514	0.3896 0.6936	0.4597 0.7337	0.4845	0.5597	Lin1	-0.542	0.7122				17.2			0.9960		0.9900
cis-1,3-Dichloropropene	1.4389 1.9665	1.3901 2.0027	1.6627 2.0577	1.7255	1.8912	Ave		1.7669			0.2000	14.5		20.0			
4-Methyl-2-pentanone (MIBK)	0.9488 0.9330	0.9062 0.8551	0.9416 0.7784	0.9601	1.0490	Ave		0.9215			0.1000	8.6		20.0			
Toluene	1.3098 1.4988	1.0604 1.5136	1.4135 1.4735	1.3793	1.5642	Ave		1.4016			0.4000	11.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 629405

SDG No.: 198720

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2022 15:00 Calibration End Date: 06/09/2022 17:34 Calibration ID: 43593

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
trans-1,3-Dichloropropene	0.7541 0.9031	0.6229 0.9005	0.8104 0.8978	0.7917	0.8808	Ave		0.8202			0.1000	11.9		20.0			
Ethyl methacrylate	0.6006 0.7137	0.5511 0.6657	0.6680 0.6562	0.7008	0.7348	Ave		0.6614				9.1		20.0			
1,1,2-Trichloroethane	0.4238 0.4895	0.4054 0.4817	0.4732 0.4736	0.4891	0.5103	Ave		0.4683			0.1000	7.6		20.0			
Tetrachloroethene	+++++ 0.7074	0.4162 0.7185	0.6305 0.6993	0.6401	0.7624	Lin1	-0.223	0.7129			0.2000	7.0			0.9990		0.9900
1,3-Dichloropropane	0.7762 0.8769	0.7114 0.8607	0.8371 0.8504	0.8565	0.8886	Ave		0.8322				7.1		20.0			
2-Hexanone	0.6073 0.6499	0.6199 0.5646	0.6941 0.5074	0.7051	0.7554	Ave		0.6379			0.1000	12.6		20.0			
Dibromochloromethane	0.6508 0.7627	0.6035 0.7597	0.6977 0.7570	0.7151	0.7661	Ave		0.7141			0.1000	8.5		20.0			
1,2-Dibromoethane	0.6013 0.6475	0.5317 0.6421	0.6184 0.6406	0.6317	0.6588	Ave		0.6215				6.5		20.0			
Chlorobenzene	1.5917 1.7558	1.3554 1.7452	1.7154 1.7139	1.6614	1.8303	Ave		1.6711			0.5000	8.7		20.0			
Ethylbenzene	+++++ 2.7605	1.7661 2.7768	2.4894 2.6813	2.4719	2.8218	Lin1	-0.750	2.7386			0.1000	5.5			0.9990		0.9900
1,1,1,2-Tetrachloroethane	0.7048 0.7748	0.5864 0.7727	0.7373 0.7253	0.6986	0.8430	Ave		0.7304				10.2		20.0			
m,p-Xylene	+++++ 1.0640	0.6414 1.0700	0.9412 1.0492	0.9559	1.1066	Lin1	-0.339	1.0661			0.1000	5.5			0.9990		0.9900
o-Xylene	+++++ 1.1188	0.7009 1.1237	0.9640 1.0852	0.9910	1.1557	Lin1	-0.336	1.1097			0.3000	5.1			0.9990		0.9900
Styrene	+++++ 1.7917	1.1982 1.7418	1.5665 1.7112	1.6814	1.8509	Ave		1.6488			0.3000	13.2		20.0			
Bromoform	0.4393 0.4760	0.3829 0.4646	0.4341 0.4714	0.4361	0.4688	Ave		0.4467			0.1000	6.9		20.0			
Isopropylbenzene	+++++ 2.7901	1.3863 3.0518	1.9776 3.0770	2.1309	2.7784	Lin1	-2.240	3.0544			0.1000	11.3			0.9980		0.9900
Bromobenzene	0.6525 0.7413	0.5501 0.7749	0.6662 0.7881	0.6569	0.7421	Ave		0.6965				11.4		20.0			
1,1,2,2-Tetrachloroethane	0.8209 0.8257	0.7243 0.8373	0.7677 0.8213	0.7739	0.8297	Ave		0.8001			0.3000	5.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 629405

SDG No.: 198720

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2022 15:00 Calibration End Date: 06/09/2022 17:34 Calibration ID: 43593

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
N-Propylbenzene	+++++ 3.2147	1.9226 3.3784	2.6544 3.3678	2.6912	3.2534	Lin1	-1.673	3.3731				5.9			0.9990		0.9900
1,2,3-Trichloropropane	0.2055 0.2060	0.1843 0.2070	0.1920 0.2003	0.2001	0.2113	Ave		0.2008				4.4		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.2092	0.1135 0.2081	0.1335 0.2124	0.1655	0.1949	Lin1	-0.133	0.2122				8.8			0.9990		0.9900
2-Chlorotoluene	0.4965 0.6951	0.4231 0.7361	0.5759 0.7347	0.5813	0.7078	Ave		0.6188				19.1		20.0			
1,3,5-Trimethylbenzene	+++++ 2.4087	1.3392 2.5922	1.8615 2.5720	1.9771	2.4756	Lin1	-1.502	2.5764				7.3			0.9990		0.9900
4-Chlorotoluene	0.4853 0.6906	0.4228 0.6986	0.6123 0.7080	0.6229	0.6944	Ave		0.6168				17.5		20.0			
tert-Butylbenzene	+++++ 0.4860	0.2111 0.5363	0.3523 0.5379	0.3590	0.4809	Lin1	-0.417	0.5347				11.6			0.9980		0.9900
1,2,4-Trimethylbenzene	+++++ 2.4739	1.4307 2.6151	1.9595 2.5594	2.0923	2.5554	Lin1	-1.288	2.5851				5.2			0.9990		0.9900
sec-Butylbenzene	+++++ 3.1378	1.5987 3.4205	2.3389 3.3734	2.4180	3.1827	Lin1	-2.248	3.3821				9.5			0.9990		0.9900
4-Isopropyltoluene	+++++ 2.7587	1.3176 2.9488	1.9914 2.8792	2.1355	2.7805	Lin1	-1.898	2.9088				7.9			0.9990		0.9900
1,3-Dichlorobenzene	1.2941 1.3962	1.0180 1.3986	1.3125 1.3776	1.3117	1.4233	Ave		1.3165			0.6000	9.9		20.0			
1,4-Dichlorobenzene	1.3289 1.4178	1.1841 1.4209	1.3895 1.4188	1.3612	1.4644	Ave		1.3732			0.5000	6.3		20.0			
n-Butylbenzene	+++++ 2.5495	1.4494 2.6290	1.9861 2.5495	1.9816	2.6621	Lin1	-1.263	2.5955				7.4			0.9990		0.9900
1,2-Dichlorobenzene	1.2847 1.4723	1.1987 1.4791	1.4319 1.4436	1.3759	1.5657	Ave		1.4065			0.4000	8.3		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1604	0.1368 0.1630	0.1460 0.1573	0.1411	0.1600	Ave		0.1521			0.0500	6.9		20.0			
1,2,4-Trichlorobenzene	0.9286 1.2000	0.8114 1.1960	0.9515 1.1269	0.9430	1.2179	Ave		1.0469			0.2000	14.9		20.0			
Hexachlorobutadiene	0.3657 0.5690	0.3608 0.5818	0.4439 0.5804	0.4355	0.5728	Ave		0.4887				20.0		20.0			
Naphthalene	+++++ 3.1900	2.1171 3.3666	2.2157 3.1302	2.3639	3.0899	Ave		2.7819				18.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 629405

SDG No.: 198720

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2022 15:00 Calibration End Date: 06/09/2022 17:34 Calibration ID: 43593

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trichlorobenzene	1.0171 1.2328	0.8619 1.2376	0.9929 1.1465	0.9823	1.2706	Ave		1.0927				13.7		20.0			
Dibromofluoromethane (Surr)	1.7535 1.6461	1.7686 1.6310	1.7069 1.5820	1.6792	1.7183	Ave		1.6857				3.8		20.0			
1,2-Dichloroethane-d4 (Surr)	0.9341 0.8996	0.9286 0.8852	0.9248 0.8668	0.9158	0.9263	Ave		0.9102				2.6		20.0			
Toluene-d8 (Surr)	2.4303 2.5310	2.4916 2.5130	2.5031 2.4516	2.5144	2.5908	Ave		2.5032				2.0		20.0			
4-Bromofluorobenzene (Surr)	0.7865 0.7792	0.7840 0.7436	0.7966 0.7319	0.7964	0.7777	Ave		0.7745				3.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 629405

SDG No.: 198720

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2022 15:00 Calibration End Date: 06/09/2022 17:34 Calibration ID: 43593

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-629405/10	D0721.D
Level 2	IC 480-629405/11	D0722.D
Level 3	IC 480-629405/12	D0723.D
Level 4	IC 480-629405/13	D0724.D
Level 5	IC 480-629405/14	D0725.D
Level 6	ICIS 480-629405/15	D0726.D
Level 7	IC 480-629405/16	D0727.D
Level 8	IC 480-629405/17	D0728.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	3812 282572	8464 567917	16538 1166622	58504	118333	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	5679 326165	13519 637757	23145 1246864	67211	129057	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	3465 228896	8032 467953	14179 947727	46567	95050	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	2732 207920	6788 422488	12217 823875	37323	84915	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	+++++ 143243	5765 286466	12063 589625	32059	61279	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	1633 105306	3858 207663	7148 428168	21539	43018	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	4194 301165	9834 607236	17921 1233032	62434	123693	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	5664 300313	12108 603703	20875 1217439	61521	124919	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	2609 172351	5601 334286	13408 702940	33736	71698	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	2749 192820	7126 382499	15021 760826	36177	77743	2.00 125	5.00 250	10.0 500	25.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Lin1	+++++ 173264	3359 403194	11783 820083	31371	74470	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethene	FB	Lin1	+++++ 171481	4203 359813	11816 744281	30379	73437	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	+++++	20942	41739	95705	190973	+++++	5.00	10.0	25.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 629405

SDG No.: 198720

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2022 15:00 Calibration End Date: 06/09/2022 17:34 Calibration ID: 43593

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			455363	898347	1781539			125	250	500		
Iodomethane	FB	Ave	5229 407034	11469 825473	30071 1680493	72992	167865	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	+++++ 622315	15944 1312968	45078 2680948	108667	261533	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Allyl chloride	FB	Ave	6662 396995	12090 798097	30402 1590609	73623	169965	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	7567 424816	17389 841124	37145 1698967	92179	180653	0.800 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	4116 224484	7710 451466	17942 908202	44053	94614	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	3550 281330	9467 570936	20532 1127226	56499	116571	4.00 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	7891 541180	17451 1104876	39667 2240740	100541	215825	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	2412 208340	5647 428814	15651 867962	38449	87979	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	18166 1048837	42031 2169437	88763 4265864	227049	460338	4.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Lin1	+++++ 329814	7504 690708	22213 1435063	56460	135593	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	6029 426202	12475 872966	33154 1791500	82810	181667	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	15894 1121576	35499 2258600	82842 4721894	216741	451079	0.800 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	3434 278653	6992 578407	20421 1166908	50375	115312	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	3048 239148	7084 483132	17437 974854	43983	97510	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	12301 651204	26756 1261490	56069 2635642	140572	264265	2.00 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	1902 142543	4175 283532	10627 573992	26972	58529	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	2955 162337	6118 325351	13523 657650	34189	67105	0.800 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	6878	13263	32102	78180	169847	0.400	1.00	2.00	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 629405

SDG No.: 198720

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2022 15:00 Calibration End Date: 06/09/2022 17:34 Calibration ID: 43593

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			410419	818211	1658844			25.0	50.0	100		
1,1,1-Trichloroethane	FB	Lin1	+++++ 331657	7983 685251	24372 1403785	60167	137893	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Lin1	+++++ 428617	9222 905405	26910 1850345	72588	177034	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Lin1	+++++ 305073	7257 637748	22351 1318341	53637	127335	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Lin1	2398 273143	6410 578357	19919 1210120	48318	114253	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Benzene	FB	Ave	10592 773230	22271 1566731	59885 3213856	147384	319544	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Isobutyl alcohol	FB	Ave	5183 312613	12606 629601	23796 1226901	61768	126953	10.0 625	25.0 1250	50.0 2500	125	250
1,2-Dichloroethane	FB	Ave	5674 331450	11834 656559	28087 1355548	66730	135325	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Lin1	+++++ 390244	8839 787652	25987 1664161	70045	148050	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	2663 218101	5452 452196	16355 959018	40264	88745	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Lin1	+++++ 328521	6895 697251	20601 1454242	52856	134272	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	3020 229840	6704 465765	17505 992636	44338	91024	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Lin1	+++++ 31532	+++++ 63624	1644 131658	4151	11459	+++++ 500	+++++ 1000	40.0 2000	100	200
Dibromomethane	FB	Ave	2301 153006	5304 302872	11962 635106	30256	61918	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromodichloromethane	FB	Ave	4114 291211	8120 593671	21648 1267067	55495	115877	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Lin1	+++++ 102399	2324 220850	5727 501257	15564	34300	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	3457 309118	8292 637659	20714 1405839	55427	115893	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	21942	50829	111138	295335	586137	2.00	5.00	10.0	25.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 629405

SDG No.: 198720

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2022 15:00 Calibration End Date: 06/09/2022 17:34 Calibration ID: 43593

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			1404732	2605068	5223834			125	250	500		
Toluene	CBNZ d5	Ave	6058 451291	11896 922187	33365 1977705	84862	174807	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	3488 271928	6988 548665	19130 1205042	48710	98428	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	2778 214892	6182 405608	15769 880729	43114	82114	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	1960 147404	4548 293463	11169 635659	30090	57032	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZ d5	Lin1	+++++ 212991	4669 437798	14883 938525	39380	85200	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	3590 264043	7981 524396	19759 1141402	52697	99310	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	14044 978380	34773 1720042	81918 3404794	216911	422077	2.00 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZ d5	Ave	3010 229653	6770 462892	16469 1016075	43998	85617	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	2781 194964	5965 391230	14598 859806	38865	73623	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Chlorobenzene	CBNZ d5	Ave	7362 528691	15206 1063288	40492 2300277	102214	204539	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Lin1	+++++ 831219	19813 1691840	58762 3598714	152081	315353	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	3260	6579	17403	42983	94207	0.400	1.00	2.00	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 629405

SDG No.: 198720

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2022 15:00 Calibration End Date: 06/09/2022 17:34 Calibration ID: 43593

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			233311	470796	973484			25.0	50.0	100		
m,p-Xylene	CBNZ d5	Lin1	+++++	7196	22216	58810	123672	+++++	1.00	2.00	5.00	10.0
			320376	651913	1408190			25.0	50.0	100		
o-Xylene	CBNZ d5	Lin1	+++++	7863	22755	60971	129155	+++++	1.00	2.00	5.00	10.0
			336886	684660	1456519			25.0	50.0	100		
Styrene	CBNZ d5	Ave	+++++	13442	36978	103449	206849	+++++	1.00	2.00	5.00	10.0
			539505	1061223	2296697			25.0	50.0	100		
Bromoform	CBNZ d5	Ave	2032	4295	10248	26832	52391	0.400	1.00	2.00	5.00	10.0
			143322	283082	632729			25.0	50.0	100		
Isopropylbenzene	DCBd 4	Lin1	+++++	18356	55898	153660	346962	+++++	1.00	2.00	5.00	10.0
			895127	1839445	3913414			25.0	50.0	100		
Bromobenzene	DCBd 4	Ave	3585	7284	18831	47370	92673	0.400	1.00	2.00	5.00	10.0
			237809	467096	1002263			25.0	50.0	100		
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	4510	9591	21701	55810	103615	0.400	1.00	2.00	5.00	10.0
			264904	504695	1044489			25.0	50.0	100		
N-Propylbenzene	DCBd 4	Lin1	+++++	25458	75031	194062	406279	+++++	1.00	2.00	5.00	10.0
			1031319	2036309	4283302			25.0	50.0	100		
1,2,3-Trichloropropane	DCBd 4	Ave	1129	2440	5428	14432	26382	0.400	1.00	2.00	5.00	10.0
			66096	124754	254718			25.0	50.0	100		
trans-1,4-Dichloro-2-butene	DCBd 4	Lin1	+++++	1503	3773	11931	24342	+++++	1.00	2.00	5.00	10.0
			67101	125421	270127			25.0	50.0	100		
2-Chlorotoluene	DCBd 4	Ave	2728	5602	16279	41920	88385	0.400	1.00	2.00	5.00	10.0
			223014	443666	934399			25.0	50.0	100		
1,3,5-Trimethylbenzene	DCBd 4	Lin1	+++++	17733	52618	142570	309146	+++++	1.00	2.00	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 629405

SDG No.: 198720

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2022 15:00 Calibration End Date: 06/09/2022 17:34 Calibration ID: 43593

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			772759	1562433	3271086			25.0	50.0	100		
4-Chlorotoluene	DCBd 4	Ave	2666 221549	5598 421057	17307 900403	44921	86716	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Lin1	+++++ 155921	2795 323228	9958 684102	25890	60050	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Lin1	+++++ 793676	18944 1576222	55387 3255103	150881	319123	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Lin1	+++++ 1006676	21169 2061663	66111 4290351	174363	397460	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Lin1	+++++ 885050	17447 1777394	56289 3661783	153992	347231	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	7110 447942	13480 843016	37099 1752045	94587	177746	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dichlorobenzene	DCBd 4	Ave	7301 454862	15679 856464	39275 1804417	98159	182871	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Lin1	+++++ 817933	19192 1584586	56139 3242526	142892	332438	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	7058 472353	15872 891524	40473 1836026	99216	195528	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 51446	1812 98235	4127 200009	10175	19975	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	5102 384988	10744 720866	26895 1433254	68004	152090	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	2009	4778	12548	31405	71526	0.400	1.00	2.00	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 629405

SDG No.: 198720

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2022 15:00 Calibration End Date: 06/09/2022 17:34 Calibration ID: 43593

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			182552	350649	738117			25.0	50.0	100		
Naphthalene	DCBd 4	Ave	+++++	28034	62630	170464	385867	+++++	1.00	2.00	5.00	10.0
			1023420	2029203	3981091			25.0	50.0	100		
1,2,3-Trichlorobenzene	DCBd 4	Ave	5588	11413	28066	70833	158672	0.400	1.00	2.00	5.00	10.0
			395520	745938	1458150			25.0	50.0	100		
Dibromofluoromethane (Surr)	FB	Ave	263305	263747	265818	269697	263239	25.0	25.0	25.0	25.0	25.0
			258760	259654	270209			25.0	25.0	25.0		
1,2-Dichloroethane-d4 (Surr)	FB	Ave	140266	138478	144021	147092	141907	25.0	25.0	25.0	25.0	25.0
			141414	140920	148045			25.0	25.0	25.0		
Toluene-d8 (Surr)	CBNZ d5	Ave	702534	698794	738567	773479	723843	25.0	25.0	25.0	25.0	25.0
			762113	765569	822629			25.0	25.0	25.0		
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	227371	219887	235034	244992	217286	25.0	25.0	25.0	25.0	25.0
			234617	226541	245595			25.0	25.0	25.0		

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 629405

SDG No.: 198720

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2022 15:00 Calibration End Date: 06/09/2022 17:34 Calibration ID: 43593

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-629405/10	D0721.D
Level 2	IC 480-629405/11	D0722.D
Level 3	IC 480-629405/12	D0723.D
Level 4	IC 480-629405/13	D0724.D
Level 5	IC 480-629405/14	D0725.D
Level 6	ICIS 480-629405/15	D0726.D
Level 7	IC 480-629405/16	D0727.D
Level 8	IC 480-629405/17	D0728.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	-5.1						30					
Chloromethane	14.0						30					
Vinyl chloride	2.6						30					
Butadiene	-5.8						30					
Bromomethane	+++++	2.4						30				
Chloroethane	4.1						30					
Trichlorofluoromethane	-3.2						30					
Dichlorofluoromethane	20.9						30					
Ethyl ether	2.2						30					
Acrolein	-3.5						30					
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++	1.4						30				
1,1-Dichloroethene	+++++	-4.2						30				
Acetone	+++++	15.5						30				
Iodomethane	-9.2						30					
Carbon disulfide	+++++	-27.9						30				

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 629405

SDG No.: 198720

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2022 15:00 Calibration End Date: 06/09/2022 17:34 Calibration ID: 43593

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Allyl chloride	12.8						30					
Methyl acetate	11.0						30					
Methylene Chloride	1.9						30					
2-Methyl-2-propanol	-13.1						30					
Methyl tert-butyl ether	0.1						30					
trans-1,2-Dichloroethene	-17.9						30					
Acrylonitrile	7.9						30					
Hexane	+++++	-1.5						30				
1,1-Dichloroethane	-3.9						30					
Vinyl acetate	-2.8						30					
2,2-Dichloropropane	-12.0						30					
cis-1,2-Dichloroethene	-10.0						30					
2-Butanone (MEK)	17.8						30					
Chlorobromomethane	-6.5						30					
Tetrahydrofuran	15.5						30					
Chloroform	11.8						30					
1,1,1-Trichloroethane	+++++	-10.7						30				
Cyclohexane	+++++	0.0						30				
Carbon tetrachloride	+++++	-7.1						30				
1,1-Dichloropropene	17.8						30					
Benzene	-5.4						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 629405

SDG No.: 198720

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2022 15:00 Calibration End Date: 06/09/2022 17:34 Calibration ID: 43593

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Isobutyl alcohol	8.3						30					
1,2-Dichloroethane	10.9						30					
n-Heptane	+++++	-2.6						30				
Trichloroethene	-13.5						30					
Methylcyclohexane	+++++	4.7						30				
1,2-Dichloropropane	-8.8						30					
1,4-Dioxane	+++++	+++++	5.2						30			
Dibromomethane	0.6						30					
Bromodichloromethane	-2.2						30					
2-Chloroethyl vinyl ether	+++++	30.8 *						30				
cis-1,3-Dichloropropene	-18.6						30					
4-Methyl-2-pentanone (MIBK)	3.0						30					
Toluene	-6.6						30					
trans-1,3-Dichloropropene	-8.1						30					
Ethyl methacrylate	-9.2						30					
1,1,2-Trichloroethane	-9.5						30					
Tetrachloroethene	+++++	-10.4						30				
1,3-Dichloropropane	-6.7						30					
2-Hexanone	-4.8						30					
Dibromochloromethane	-8.9						30					
1,2-Dibromoethane	-3.3						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 629405

SDG No.: 198720

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2022 15:00 Calibration End Date: 06/09/2022 17:34 Calibration ID: 43593

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Chlorobenzene	-4.8						30					
Ethylbenzene	+++++	-8.1						30				
1,1,1,2-Tetrachloroethane	-3.5						30					
m,p-Xylene	+++++	-8.0						30				
o-Xylene	+++++	-6.6						30				
Styrene	+++++	-27.3						30				
Bromoform	-1.6						30					
Isopropylbenzene	+++++	18.7						30				
Bromobenzene	-6.3						30					
1,1,2,2-Tetrachloroethane	2.6						30					
N-Propylbenzene	+++++	6.6						30				
1,2,3-Trichloropropane	2.3						30					
trans-1,4-Dichloro-2-butene	+++++	16.1						30				
2-Chlorotoluene	-19.8						30					
1,3,5-Trimethylbenzene	+++++	10.3						30				
4-Chlorotoluene	-21.3						30					
tert-Butylbenzene	+++++	17.4						30				
1,2,4-Trimethylbenzene	+++++	5.2						30				
sec-Butylbenzene	+++++	13.8						30				
4-Isopropyltoluene	+++++	10.6						30				
1,3-Dichlorobenzene	-1.7						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 629405

SDG No.: 198720

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/09/2022 15:00 Calibration End Date: 06/09/2022 17:34 Calibration ID: 43593

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dichlorobenzene	-3.2						30					
n-Butylbenzene	+++++	4.5						30				
1,2-Dichlorobenzene	-8.7						30					
1,2-Dibromo-3-Chloropropane	+++++	-10.0						30				
1,2,4-Trichlorobenzene	-11.3						30					
Hexachlorobutadiene	-25.2						30					
Naphthalene	+++++	-23.9						30				
1,2,3-Trichlorobenzene	-6.9						30					
Dibromofluoromethane (Surr)	4.0						30					
1,2-Dichloroethane-d4 (Surr)	2.6						30					
Toluene-d8 (Surr)	-2.9						30					
4-Bromofluorobenzene (Surr)	1.6						30					

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0721.D
Lims ID: IC 0.4
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-Jun-2022 15:00:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 0.4
Misc. Info.: 480-0105984-010
Operator ID: AK Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Jun-2022 12:36:17 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: kiwana Date: 10-Jun-2022 09:31:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.895	4.895	0.000	98	150157	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.255	7.255	0.000	87	289074	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.163	9.163	0.000	96	343378	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.414	4.414	0.000	92	263305	25.0	26.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.670	4.670	0.000	99	140266	25.0	25.7	
$ 5 Toluene-d8 (Surr)	98	6.102	6.103	-0.001	95	702534	25.0	24.3	
$ 6 4-Bromofluorobenzene (Surr)	174	8.212	8.212	0.000	94	227371	25.0	25.4	
10 Dichlorodifluoromethane	85	1.177	1.177	0.000	94	3812	0.4000	0.3796	
12 Chloromethane	50	1.347	1.347	0.000	94	5679	0.4000	0.4560	
13 Vinyl chloride	62	1.420	1.421	-0.001	94	3465	0.4000	0.4106	
144 Butadiene	54	1.439	1.445	-0.006	83	2732	0.4000	0.3767	
14 Bromomethane	94	1.713	1.713	0.000	78	2135	0.4000	0.3766	M
15 Chloroethane	64	1.805	1.805	0.000	67	1633	0.4000	0.4166	
17 Trichlorofluoromethane	101	2.000	2.000	0.000	90	4194	0.4000	0.3873	Ma
16 Dichlorofluoromethane	67	2.006	2.006	0.000	89	5664	0.4000	0.4834	
18 Ethyl ether	59	2.280	2.286	-0.006	89	2609	0.4000	0.4090	
20 Acrolein	56	2.451	2.451	0.000	92	2749	2.00	1.93	
21 112TCTFE	101	2.475	2.475	0.000	40	694	0.4000	0.6468	Ma
22 1,1-Dichloroethene	96	2.481	2.487	-0.006	92	1611	0.4000	0.5656	
23 Acetone	43	2.597	2.597	0.000	99	10425	2.00	2.85	
25 Iodomethane	142	2.634	2.634	0.000	96	5229	0.4000	0.3634	
26 Carbon disulfide	76	2.664	2.664	0.000	98	7089	0.4000	0.3184	
28 3-Chloro-1-propene	41	2.829	2.829	0.000	88	6662	0.4000	0.4512	
27 Methyl acetate	43	2.878	2.872	0.006	97	7567	0.8000	0.8882	a
30 Methylene Chloride	84	2.963	2.963	0.000	96	4116	0.4000	0.4078	
31 2-Methyl-2-propanol	59	3.121	3.115	0.006	94	3550	4.00	3.48	
32 Methyl tert-butyl ether	73	3.158	3.158	0.000	95	7891	0.4000	0.4006	
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.000	90	2412	0.4000	0.3284	
33 Acrylonitrile	53	3.219	3.213	0.006	99	18166	4.00	4.32	
35 Hexane	57	3.347	3.347	0.000	85	2192	0.4000	0.5677	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.542	3.542	0.000	91	6029	0.4000	0.3846	
37 Vinyl acetate	43	3.591	3.585	0.006	96	15894	0.8000	0.7774	a
44 2,2-Dichloropropane	77	3.987	3.993	-0.006	84	3434	0.4000	0.3522	a
45 cis-1,2-Dichloroethene	96	4.024	4.018	0.006	83	3048	0.4000	0.3598	
43 2-Butanone (MEK)	43	4.048	4.042	0.006	96	12301	2.00	2.36	a
48 Chlorobromomethane	128	4.219	4.219	0.000	94	1902	0.4000	0.3738	
49 Tetrahydrofuran	42	4.237	4.231	0.006	78	2955	0.8000	0.9242	a
50 Chloroform	83	4.280	4.286	-0.006	95	6878	0.4000	0.4474	
51 1,1,1-Trichloroethane	97	4.383	4.383	0.000	90	3414	0.4000	0.5280	a
52 Cyclohexane	56	4.389	4.390	-0.001	91	2540	0.4000	0.5956	a
55 Carbon tetrachloride	117	4.499	4.499	0.000	92	2874	0.4000	0.5543	
54 1,1-Dichloropropene	75	4.511	4.505	0.006	84	2398	0.4000	0.4713	
57 Benzene	78	4.676	4.676	0.000	91	10592	0.4000	0.3783	
53 Isobutyl alcohol	43	4.682	4.676	0.006	53	5183	10.0	10.8	a
58 1,2-Dichloroethane	62	4.731	4.731	0.000	93	5674	0.4000	0.4435	
59 n-Heptane	43	4.822	4.822	0.000	86	3557	0.4000	0.6138	a
62 Trichloroethene	95	5.176	5.176	0.000	95	2663	0.4000	0.3461	
64 Methylcyclohexane	83	5.273	5.274	-0.001	87	1887	0.4000	0.6573	
65 1,2-Dichloropropane	63	5.365	5.365	0.000	91	3020	0.4000	0.3647	
66 1,4-Dioxane	88		5.475				ND	ND	
67 Dibromomethane	93	5.481	5.475	0.006	93	2301	0.4000	0.4025	
68 Dichlorobromomethane	83	5.597	5.597	-0.001	91	4114	0.4000	0.3914	a
69 2-Chloroethyl vinyl ether	63	5.816	5.810	0.006	77	760	0.4000	0.9384	a
72 cis-1,3-Dichloropropene	75	5.926	5.926	0.000	87	3457	0.4000	0.3257	
73 4-Methyl-2-pentanone (MIBK)	43	6.029	6.029	0.000	98	21942	2.00	2.06	
74 Toluene	92	6.151	6.151	0.000	97	6058	0.4000	0.3738	
77 trans-1,3-Dichloropropene	75	6.365	6.365	0.000	87	3488	0.4000	0.3678	
75 Ethyl methacrylate	69	6.395	6.389	0.006	91	2778	0.4000	0.3633	
79 1,1,2-Trichloroethane	83	6.511	6.511	0.000	86	1960	0.4000	0.3619	
81 Tetrachloroethene	166	6.572	6.572	0.000	87	2242	0.4000	0.5842	
82 1,3-Dichloropropane	76	6.639	6.639	0.000	94	3590	0.4000	0.3731	
80 2-Hexanone	43	6.682	6.682	0.000	96	14044	2.00	1.90	
83 Chlorodibromomethane	129	6.828	6.828	0.000	86	3010	0.4000	0.3645	
84 Ethylene Dibromide	107	6.913	6.913	0.000	94	2781	0.4000	0.3870	
87 Chlorobenzene	112	7.279	7.279	0.000	96	7362	0.4000	0.3810	a
88 Ethylbenzene	91	7.340	7.340	0.000	96	10072	0.4000	0.5919	
89 1,1,1,2-Tetrachloroethane	131	7.346	7.346	0.000	89	3260	0.4000	0.3860	
90 m-Xylene & p-Xylene	106	7.432	7.432	0.000	95	3518	0.4000	0.6037	
91 o-Xylene	106	7.761	7.761	0.000	95	4103	0.4000	0.6226	
92 Styrene	104	7.779	7.779	0.000	92	6512	0.4000	0.3416	
95 Bromoform	173	7.980	7.974	0.006	89	2032	0.4000	0.3934	
94 Isopropylbenzene	105	8.047	8.047	0.000	95	8211	0.4000	0.9291	
101 Bromobenzene	156	8.334	8.334	0.000	89	3585	0.4000	0.3747	
97 1,1,2,2-Tetrachloroethane	83	8.358	8.358	0.000	87	4510	0.4000	0.4104	
99 N-Propylbenzene	91	8.389	8.383	0.006	97	11218	0.4000	0.7382	
100 1,2,3-Trichloropropane	110	8.389	8.389	0.000	89	1129	0.4000	0.4093	
98 trans-1,4-Dichloro-2-butene	53	8.395	8.395	0.000	61	402	0.4000	0.7643	a
103 2-Chlorotoluene	126	8.480	8.480	0.000	96	2728	0.4000	0.3210	
102 1,3,5-Trimethylbenzene	105	8.529	8.529	0.000	94	8341	0.4000	0.8186	
105 4-Chlorotoluene	126	8.572	8.572	0.000	95	2666	0.4000	0.3147	
106 tert-Butylbenzene	134	8.797	8.797	0.000	93	1367	0.4000	0.9655	
107 1,2,4-Trimethylbenzene	105	8.846	8.846	0.000	94	8549	0.4000	0.7392	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.980	8.980	0.000	92	8880	0.4000	0.8560	
110 4-Isopropyltoluene	119	9.096	9.096	0.000	95	7796	0.4000	0.8477	
111 1,3-Dichlorobenzene	146	9.108	9.108	0.000	95	7110	0.4000	0.3932	
113 1,4-Dichlorobenzene	146	9.181	9.181	0.000	94	7301	0.4000	0.3871	
115 n-Butylbenzene	91	9.443	9.443	0.000	96	8292	0.4000	0.7191	
116 1,2-Dichlorobenzene	146	9.504	9.504	0.000	96	7058	0.4000	0.3654	
117 1,2-Dibromo-3-Chloropropane	75	10.181	10.181	0.000	1	452	0.4000	0.2164	
119 1,2,4-Trichlorobenzene	180	10.845	10.846	-0.001	91	5102	0.4000	0.3548	
120 Hexachlorobutadiene	225	10.949	10.949	0.000	84	2009	0.4000	0.2993	
121 Naphthalene	128	11.059	11.059	0.000	95	11773	0.4000	0.3081	
122 1,2,3-Trichlorobenzene	180	11.254	11.254	0.000	95	5588	0.4000	0.3723	a
S 125 1,2-Dichloroethene, Total	1				0			0.6883	
S 126 1,3-Dichloropropene, Total	1				0			0.6935	
S 124 Xylenes, Total	1				0			1.23	
S 123 Total BTEX	1				0			2.57	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00224	Amount Added:	0.40	Units: uL	
GAS CORP mix_00513	Amount Added:	0.40	Units: uL	
D 8260 IS/SUR_00041	Amount Added:	1.00	Units: uL	Run Reagent

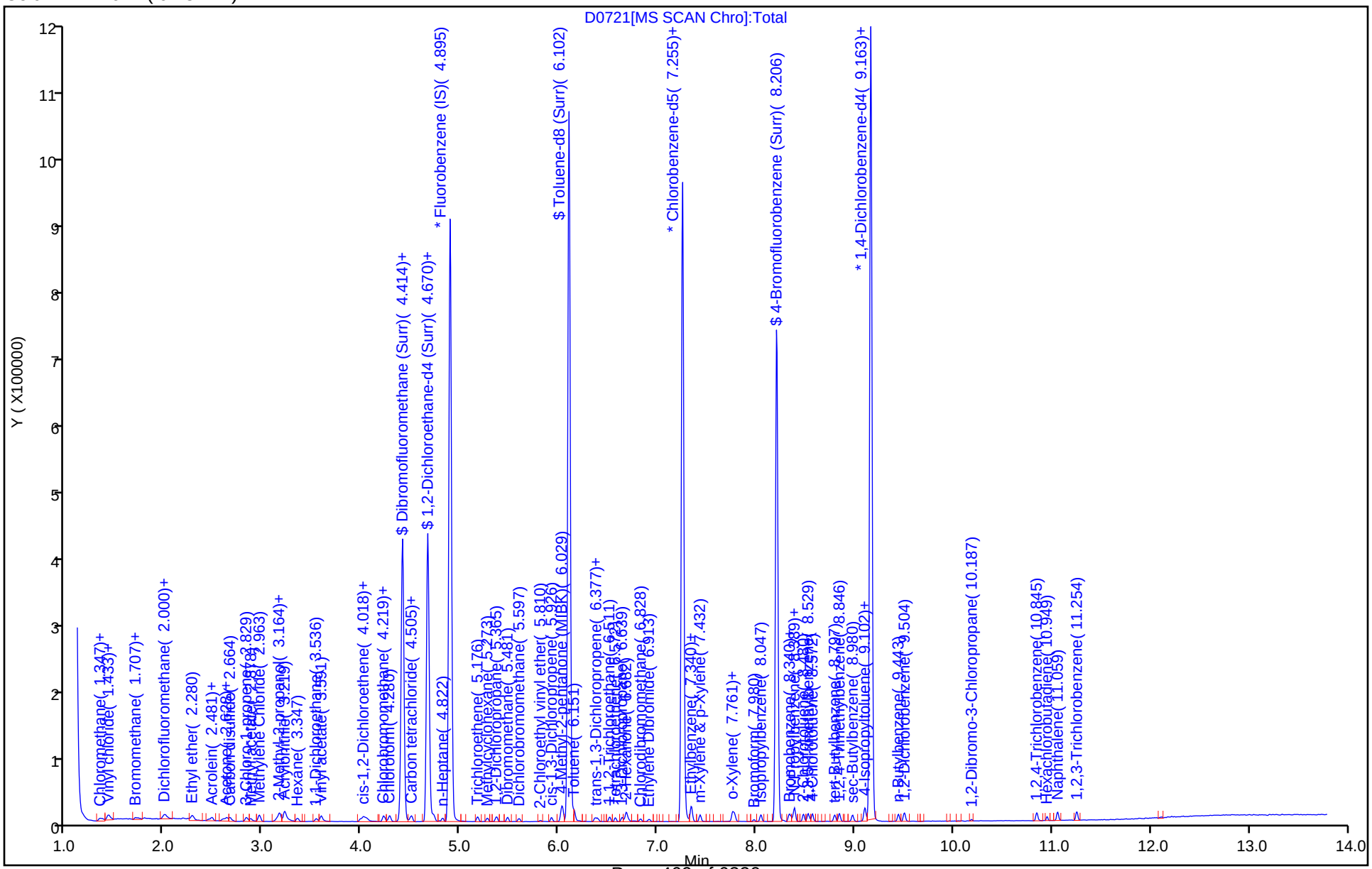
Report Date: 10-Jun-2022 12:36:18 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0721.D

Injection Date:	09-Jun-2022 15:00:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	IC 0.4			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

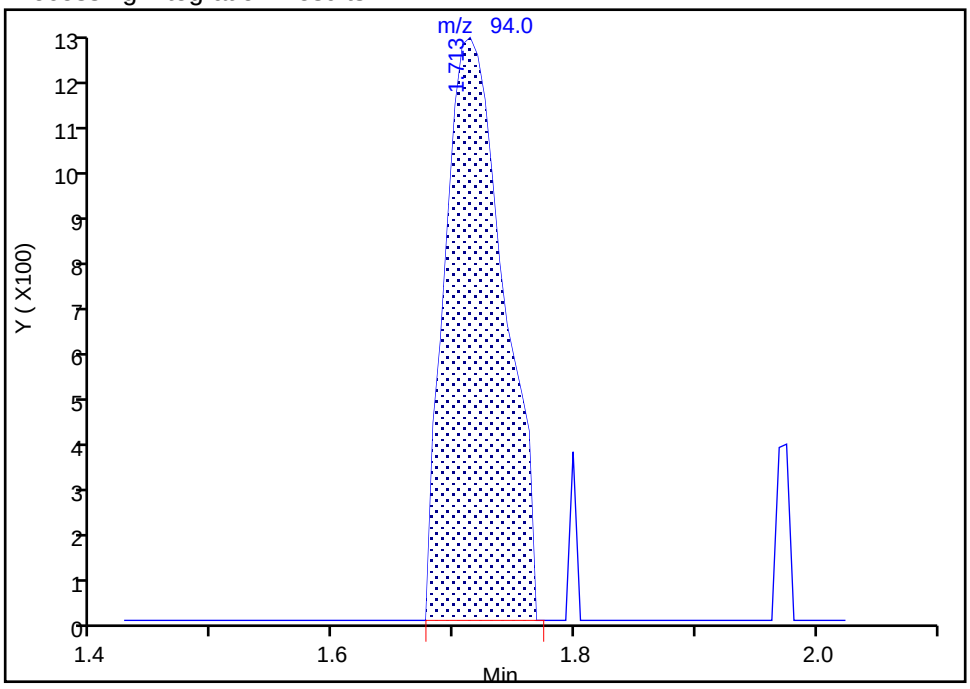
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0721.D
Injection Date: 09-Jun-2022 15:00:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: AK ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

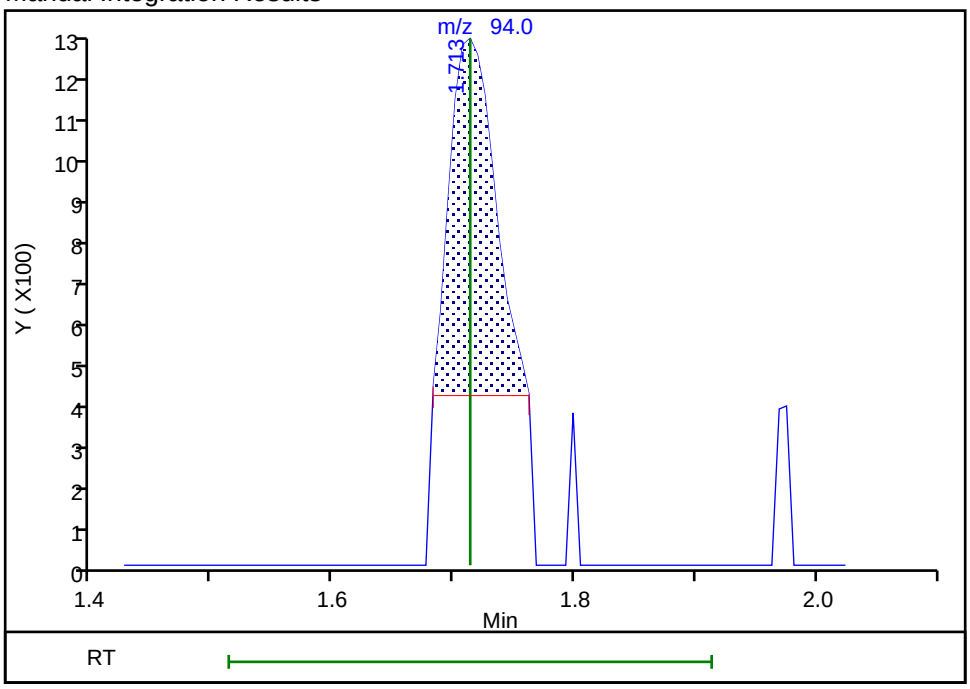
Processing Integration Results

RT: 1.71
Area: 4147
Amount: 0.700966
Amount Units: ug/L



Manual Integration Results

RT: 1.71
Area: 2135
Amount: 0.376619
Amount Units: ug/L



Reviewer: HillL, 10-Jun-2022 11:46:42
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

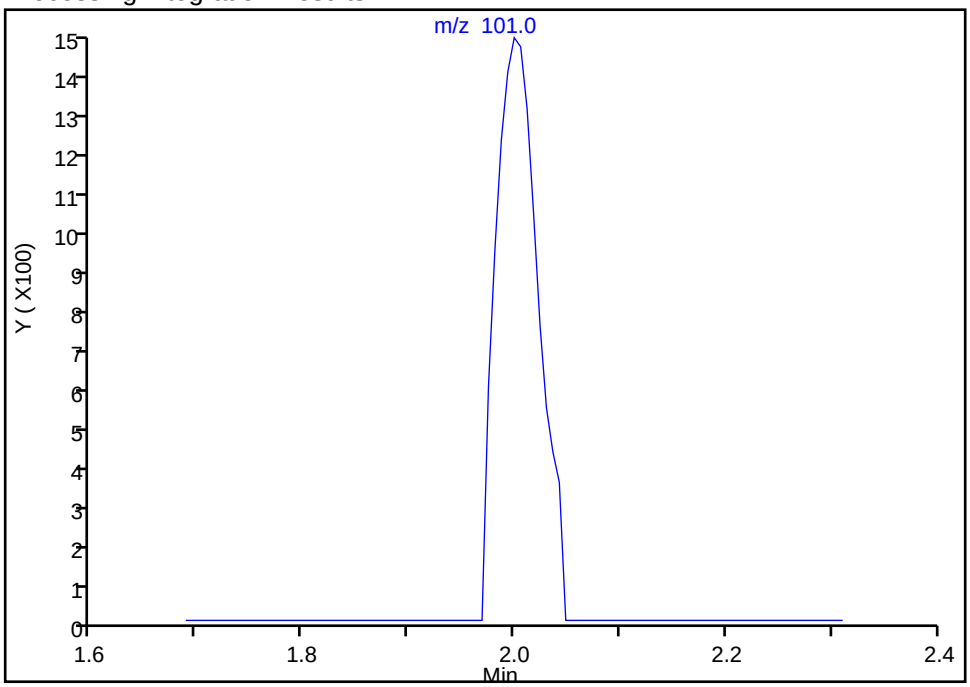
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0721.D
Injection Date: 09-Jun-2022 15:00:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: AK ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

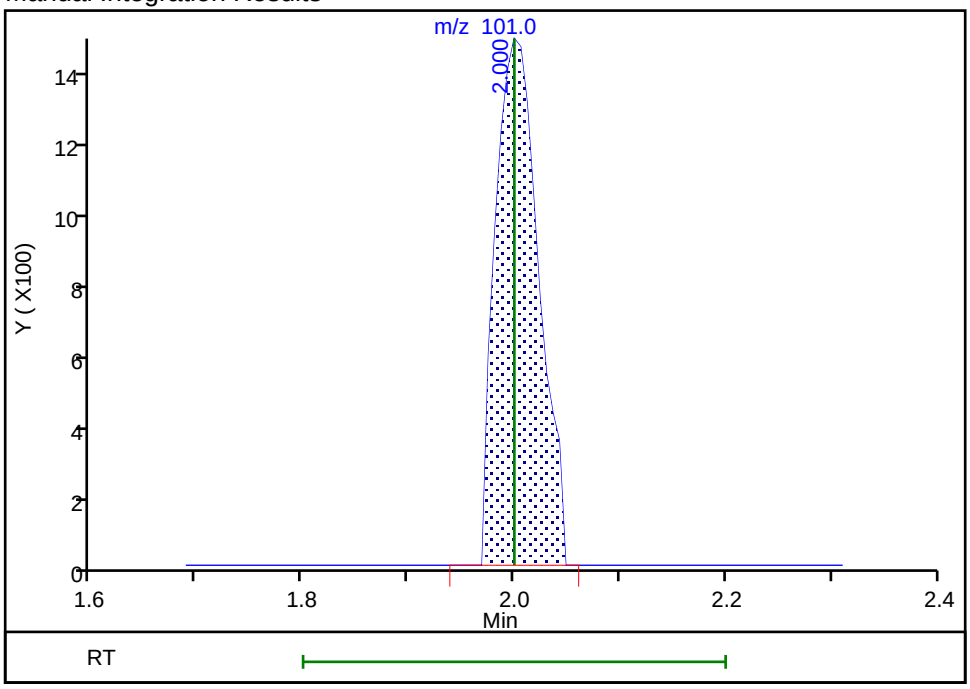
Not Detected
Expected RT: 2.00

Processing Integration Results



Manual Integration Results

RT: 2.00
Area: 4194
Amount: 0.387316
Amount Units: ug/L



Reviewer: kiwana, 10-Jun-2022 09:29:47
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

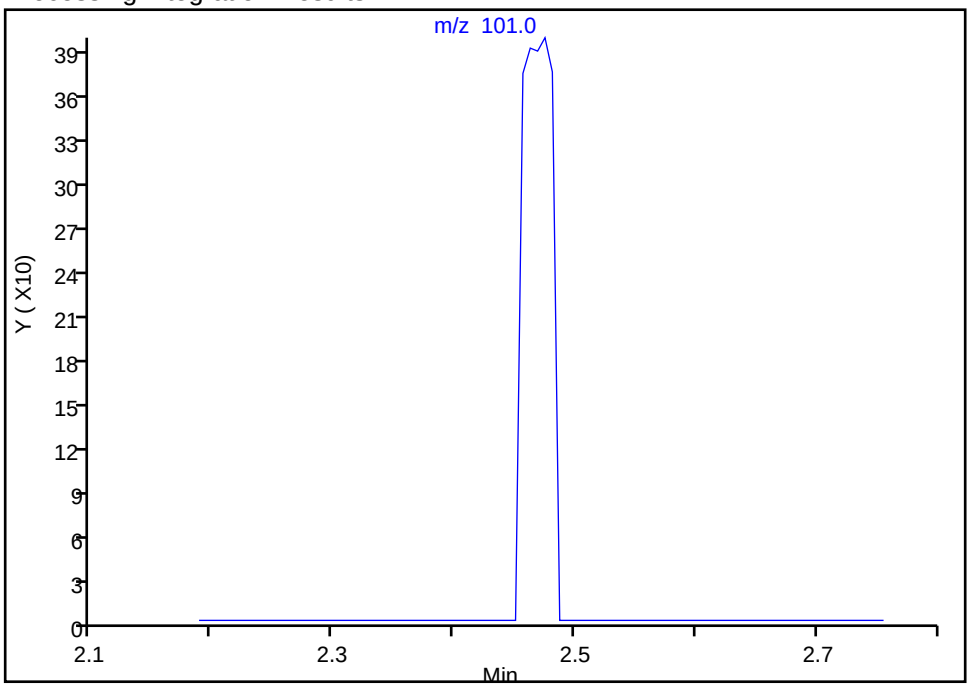
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0721.D
Injection Date: 09-Jun-2022 15:00:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: AK ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

21 112TCTFE, CAS: 76-13-1

Signal: 1

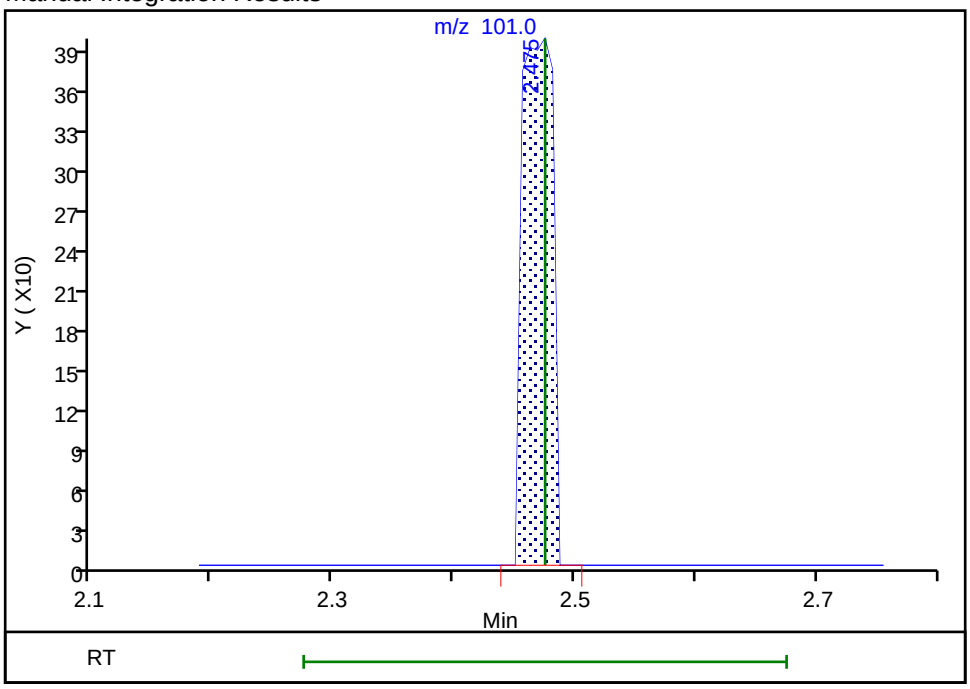
Not Detected
Expected RT: 2.48

Processing Integration Results



Manual Integration Results

RT: 2.48
Area: 694
Amount: 0.646838
Amount Units: ug/L



Reviewer: kiwana, 10-Jun-2022 09:29:56
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

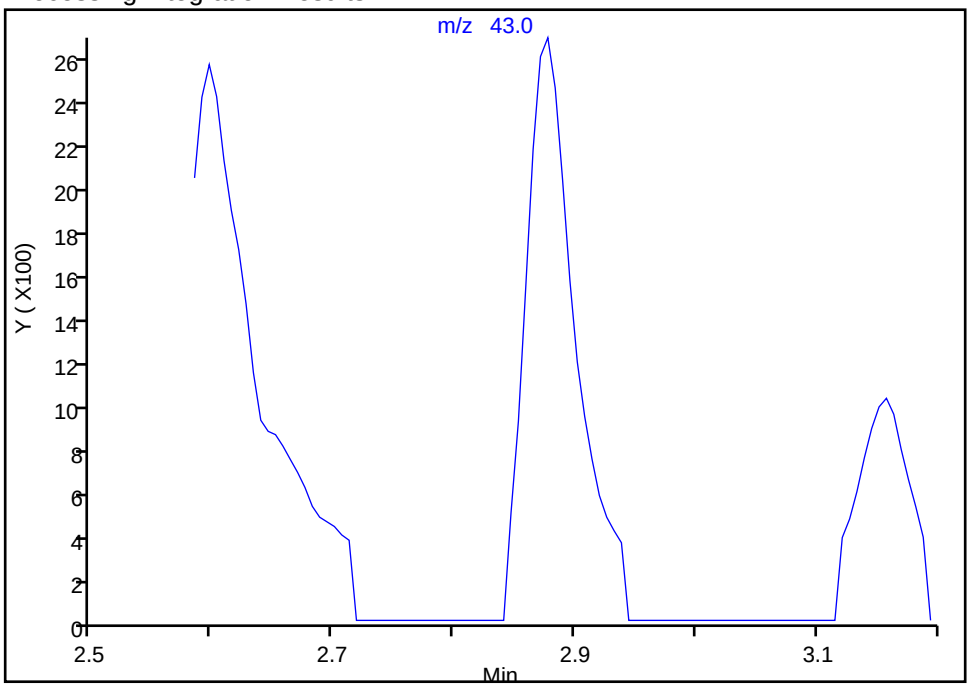
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0721.D
Injection Date: 09-Jun-2022 15:00:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: AK ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

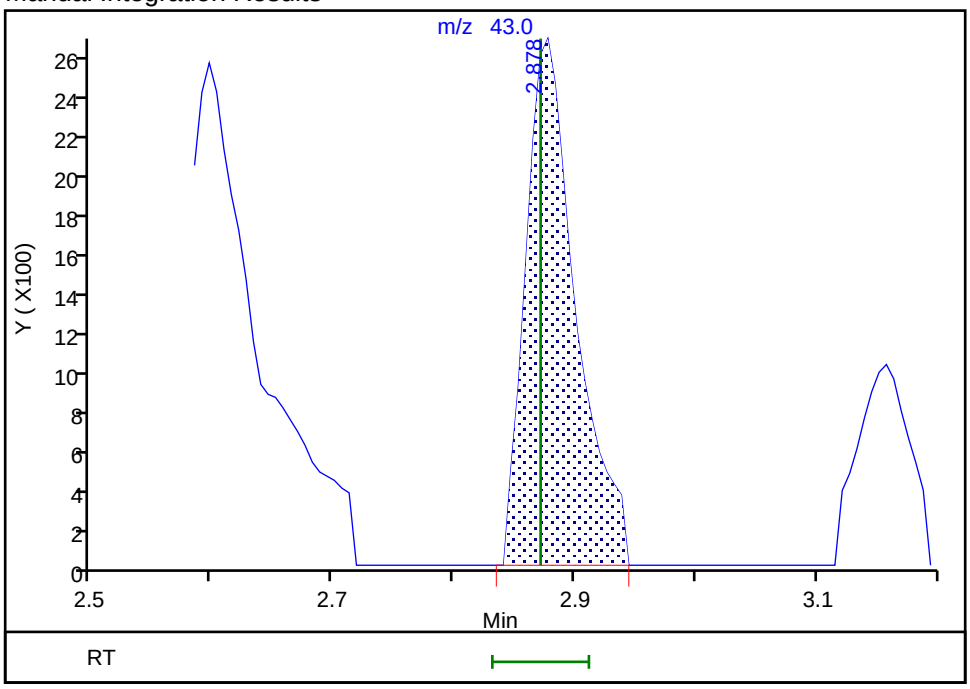
Not Detected
Expected RT: 2.87

Processing Integration Results



Manual Integration Results

RT: 2.88
Area: 7567
Amount: 0.888196
Amount Units: ug/L



Reviewer: kiwana, 10-Jun-2022 09:30:01
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

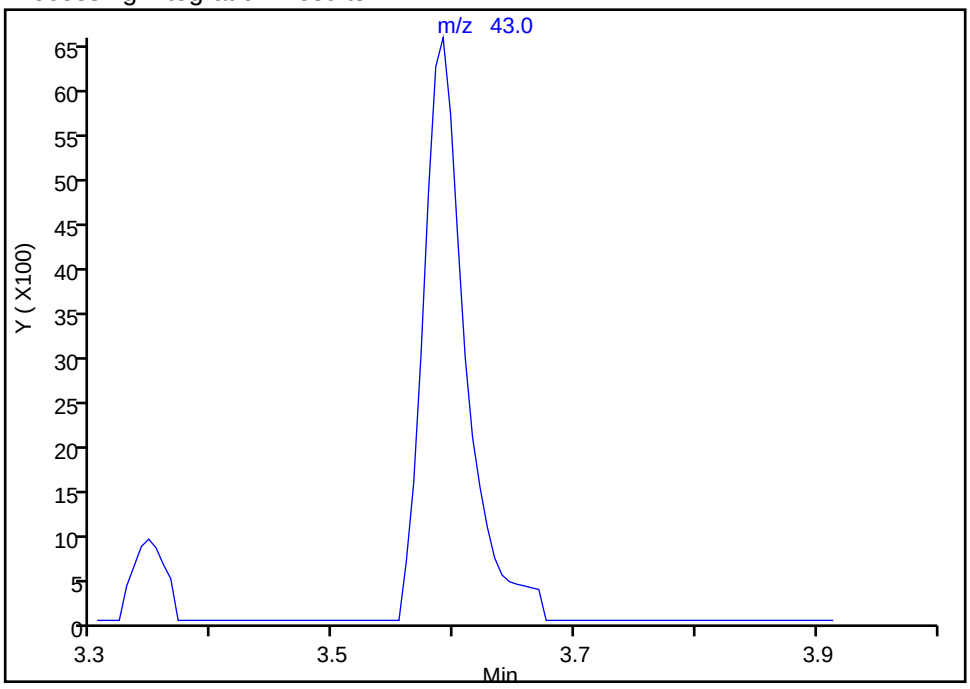
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0721.D
Injection Date: 09-Jun-2022 15:00:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: AK ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

37 Vinyl acetate, CAS: 108-05-4

Signal: 1

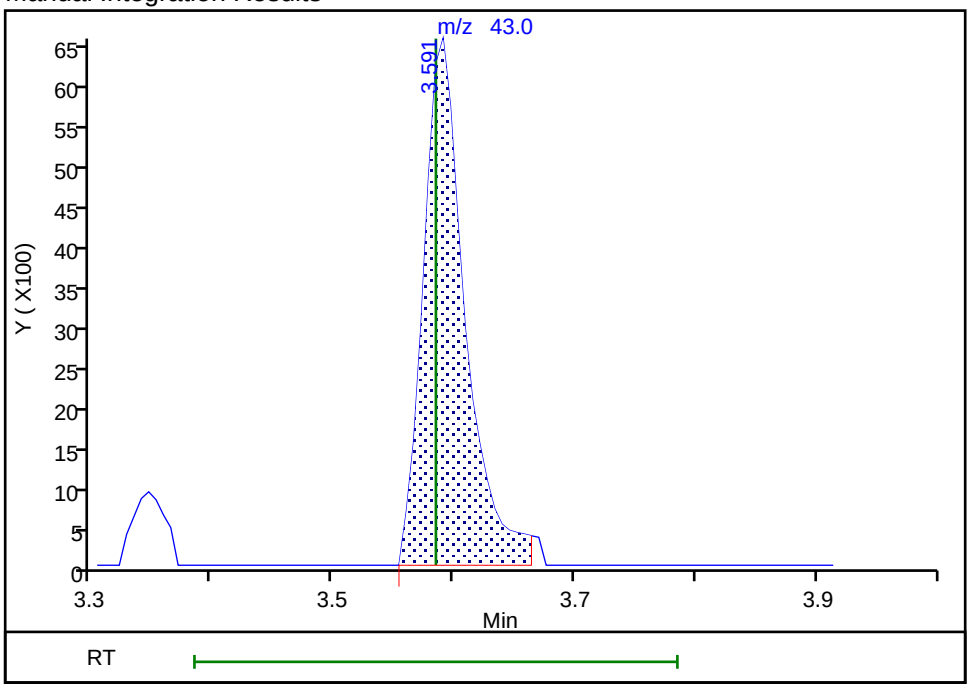
Not Detected
Expected RT: 3.58

Processing Integration Results



Manual Integration Results

RT: 3.59
Area: 15894
Amount: 0.777378
Amount Units: ug/L



Reviewer: kiwana, 10-Jun-2022 09:30:06
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

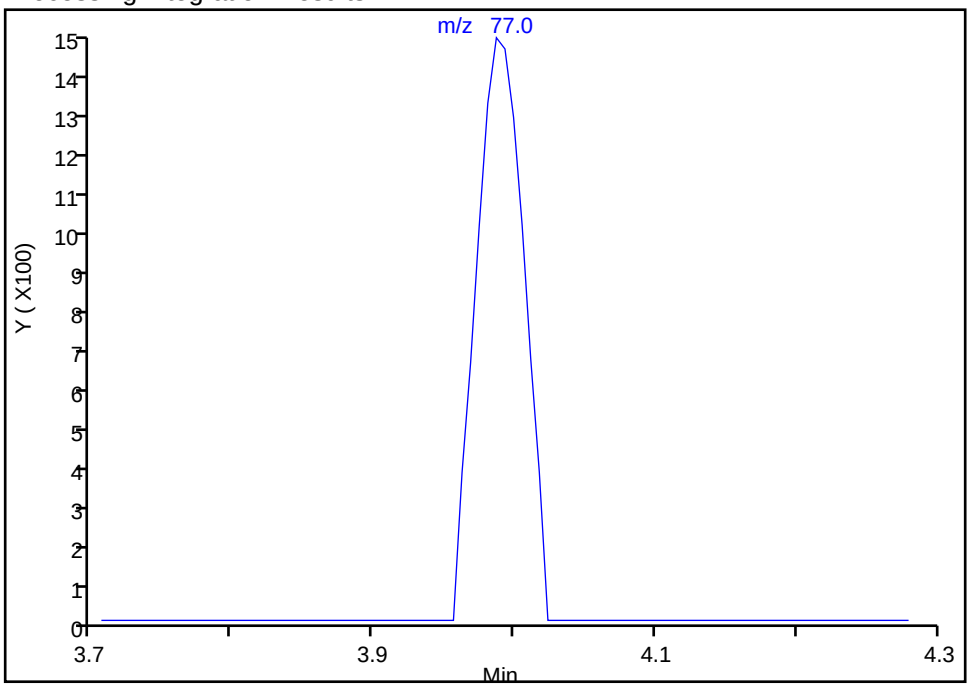
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0721.D
Injection Date: 09-Jun-2022 15:00:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: AK ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

44 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

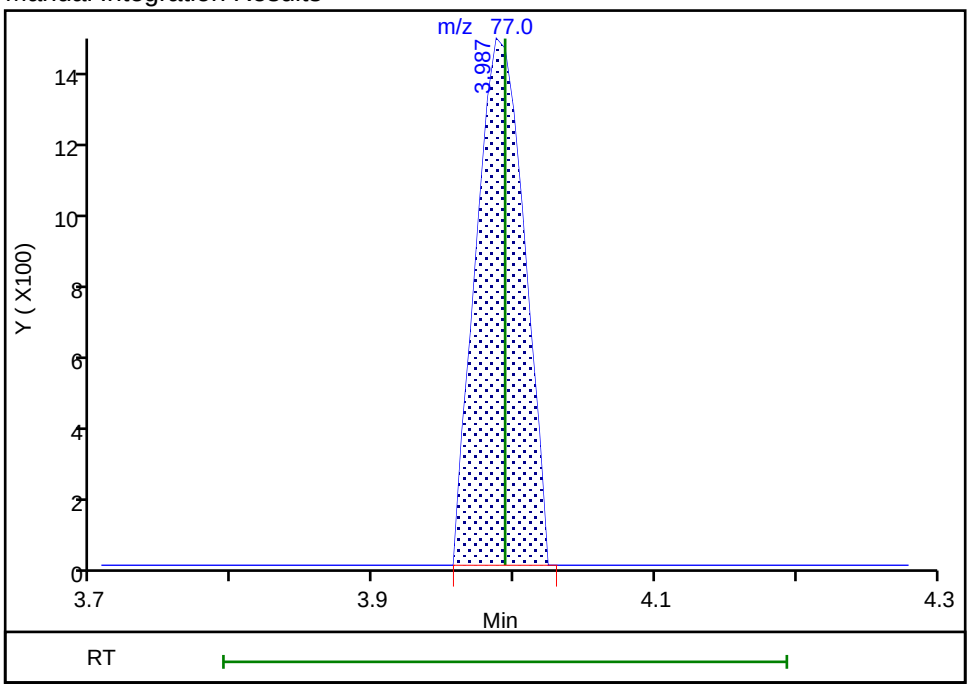
Not Detected
Expected RT: 3.99

Processing Integration Results



Manual Integration Results

RT: 3.99
Area: 3434
Amount: 0.352165
Amount Units: ug/L



Reviewer: kiwana, 10-Jun-2022 09:30:10
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

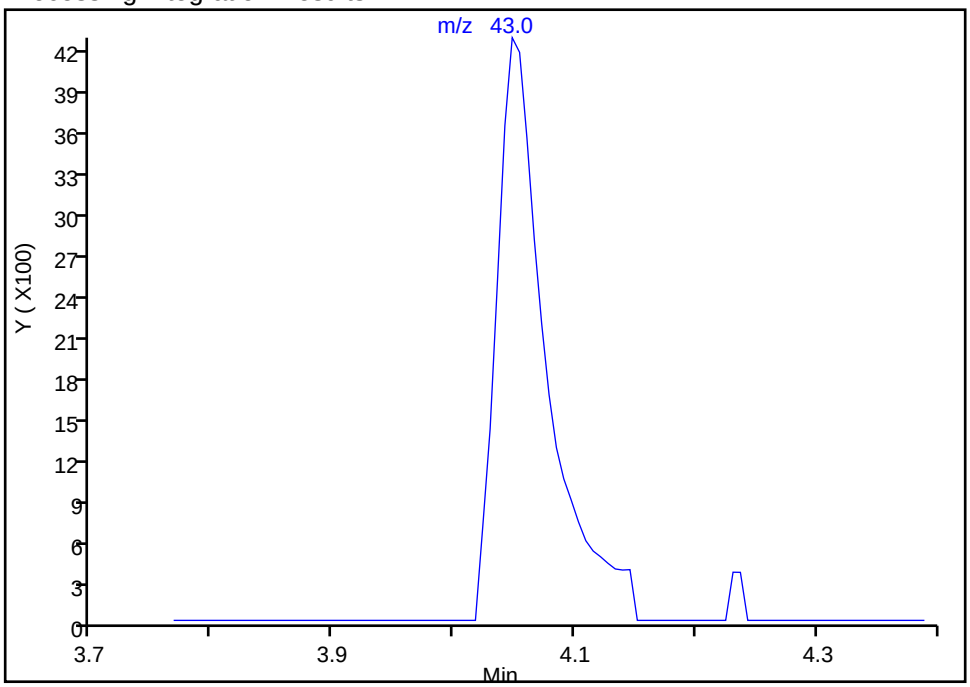
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0721.D
Injection Date: 09-Jun-2022 15:00:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: AK ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

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

Signal: 1

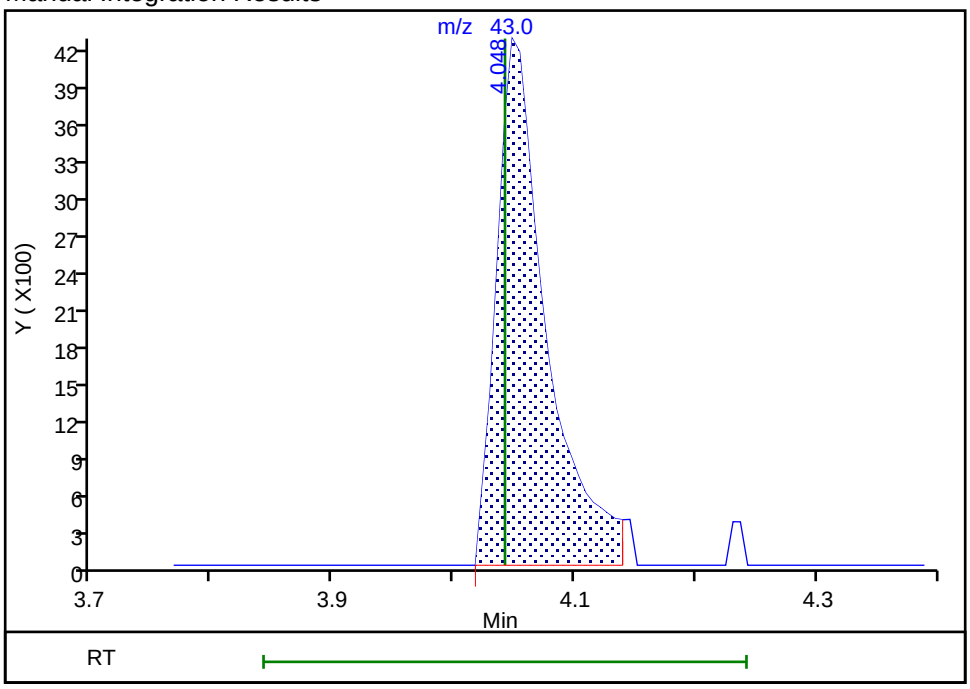
Not Detected
Expected RT: 4.04

Processing Integration Results



Manual Integration Results

RT: 4.05
Area: 12301
Amount: 2.356955
Amount Units: ug/L



Reviewer: kiwana, 10-Jun-2022 09:30:13
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

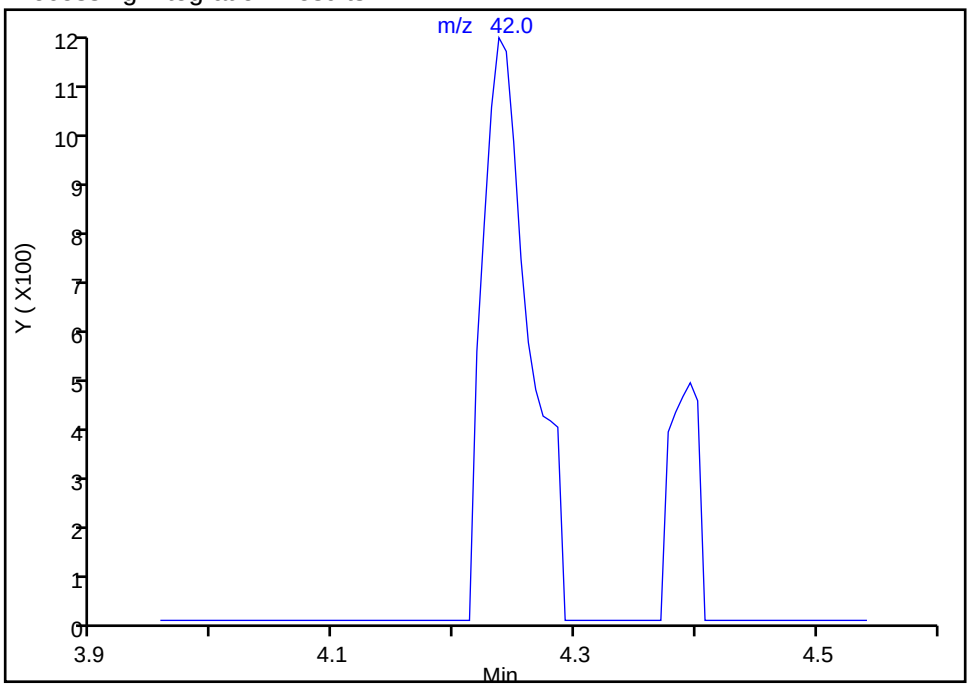
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0721.D
Injection Date: 09-Jun-2022 15:00:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: AK ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

49 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

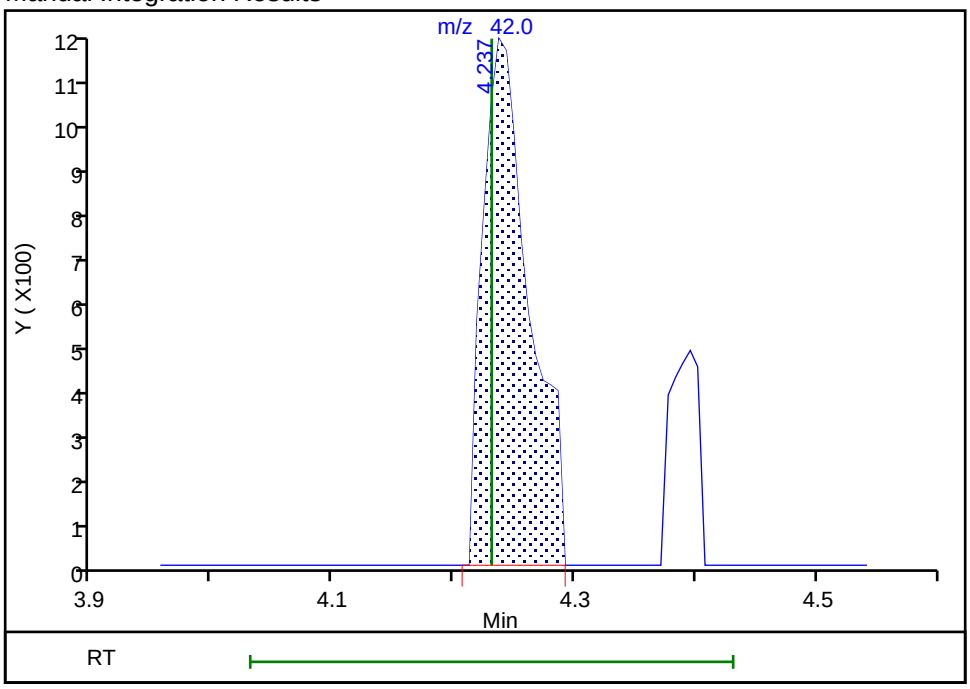
Not Detected
Expected RT: 4.23

Processing Integration Results



Manual Integration Results

RT: 4.24
Area: 2955
Amount: 0.924173
Amount Units: ug/L



Reviewer: kiwana, 10-Jun-2022 09:30:17
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

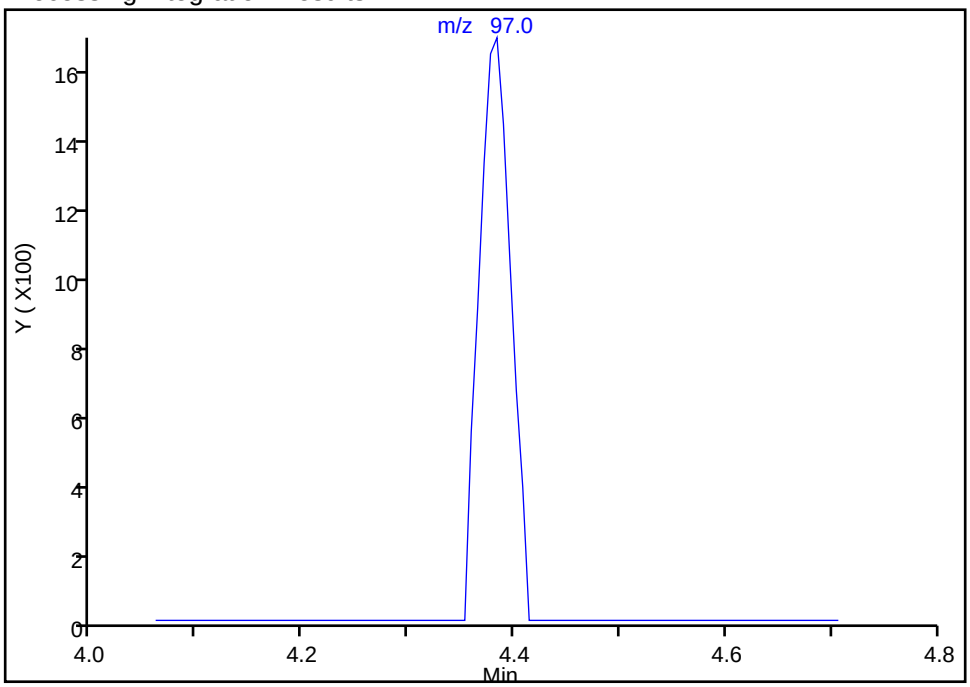
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0721.D
Injection Date: 09-Jun-2022 15:00:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: AK ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

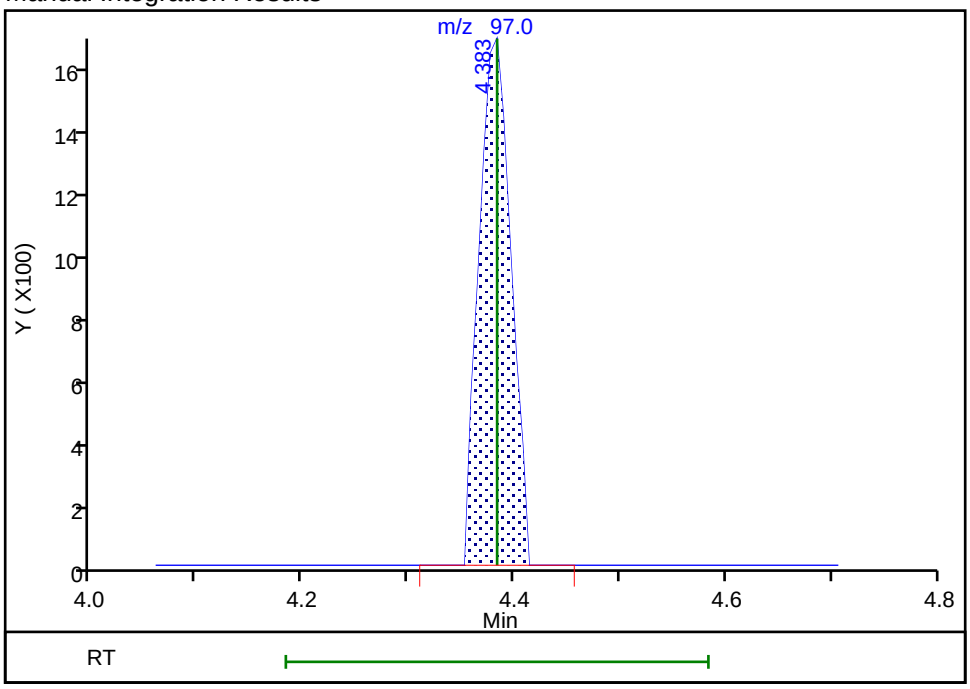
Not Detected
Expected RT: 4.38

Processing Integration Results



Manual Integration Results

RT: 4.38
Area: 3414
Amount: 0.528045
Amount Units: ug/L



Reviewer: kiwana, 10-Jun-2022 09:30:21
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

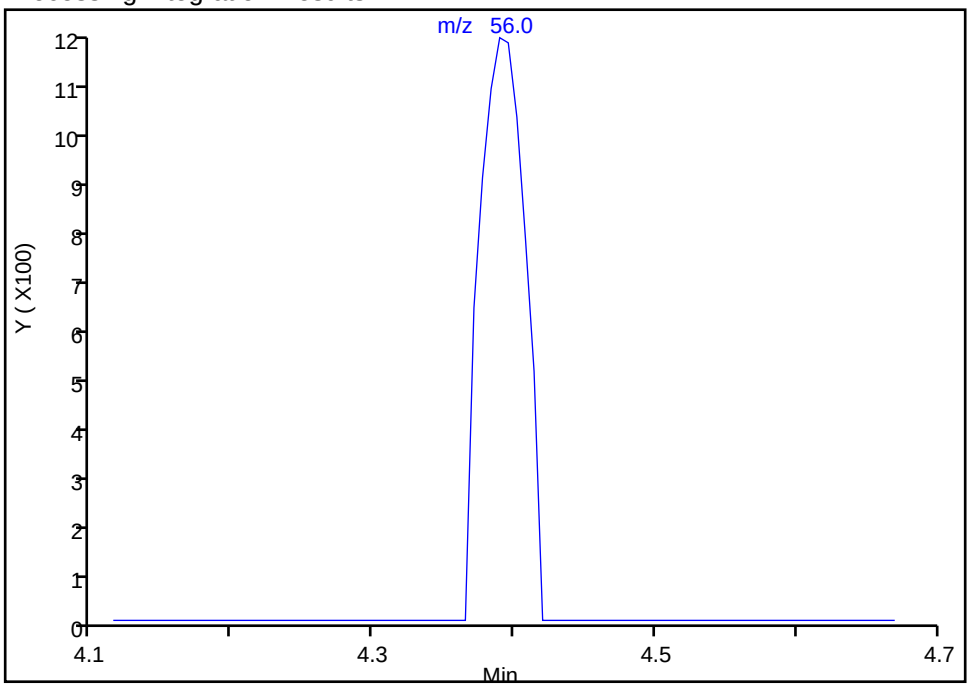
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0721.D
Injection Date: 09-Jun-2022 15:00:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: AK ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

52 Cyclohexane, CAS: 110-82-7

Signal: 1

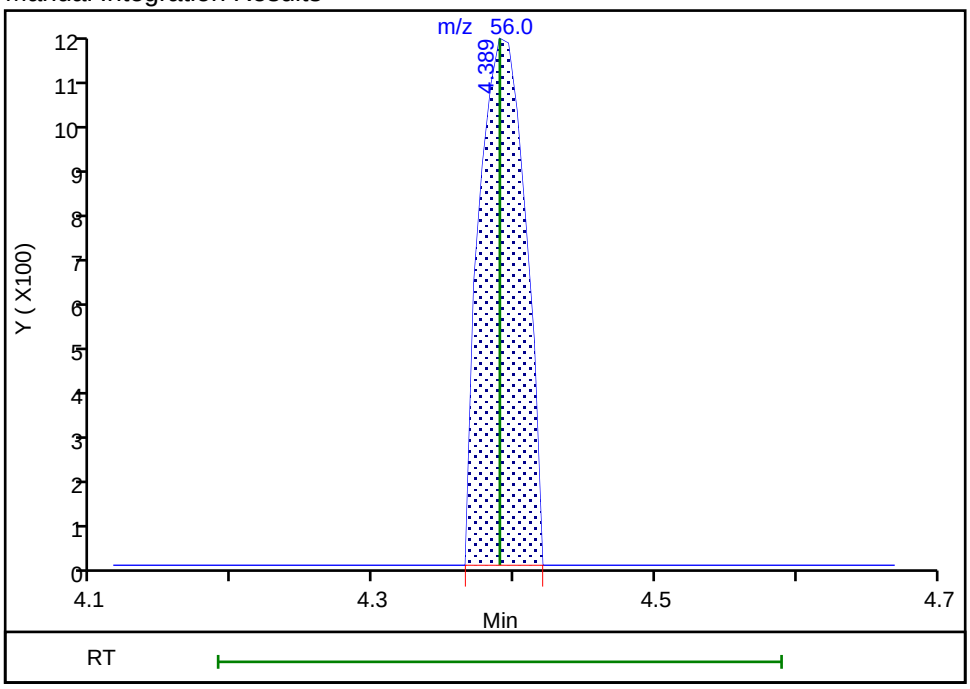
Not Detected
Expected RT: 4.39

Processing Integration Results



Manual Integration Results

RT: 4.39
Area: 2540
Amount: 0.595628
Amount Units: ug/L



Reviewer: kiwana, 10-Jun-2022 09:30:23
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

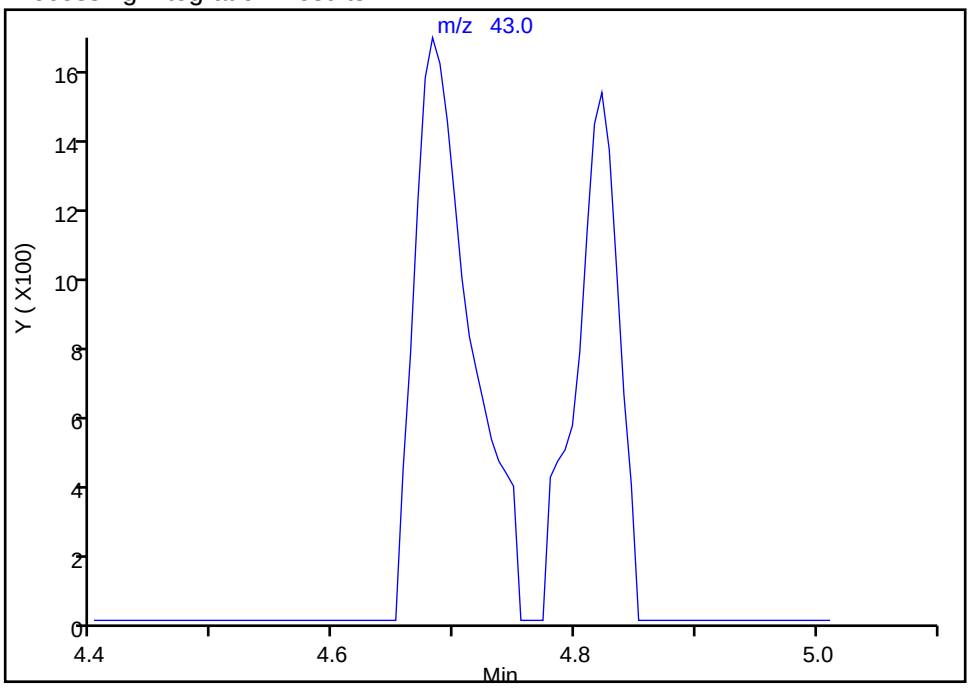
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0721.D
Injection Date: 09-Jun-2022 15:00:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: AK ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

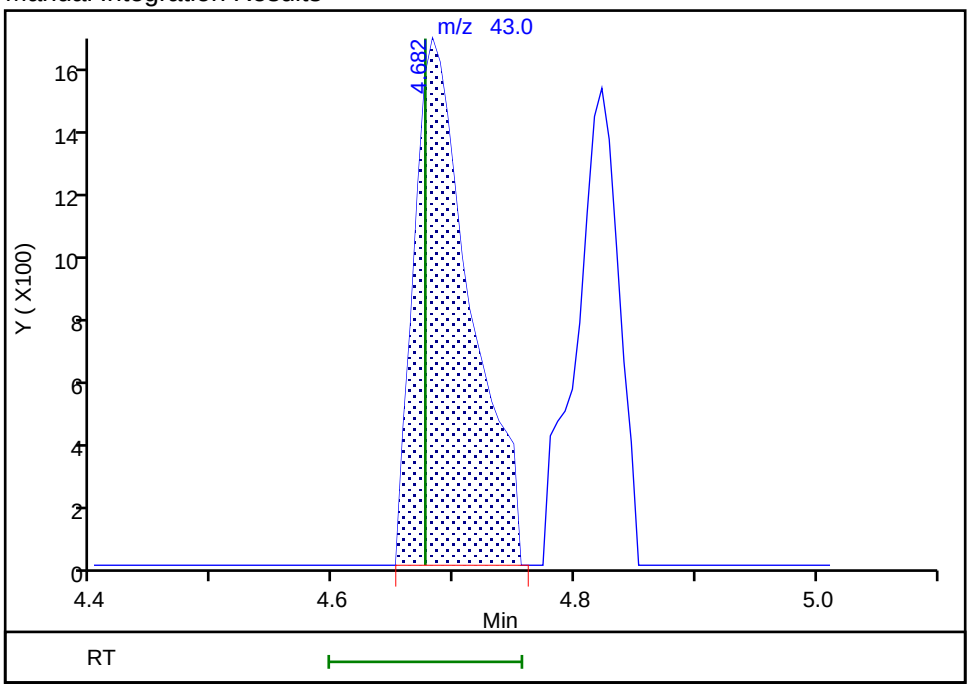
Not Detected
Expected RT: 4.68

Processing Integration Results



Manual Integration Results

RT: 4.68
Area: 5183
Amount: 10.829119
Amount Units: ug/L



Reviewer: kiwana, 10-Jun-2022 09:30:28
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

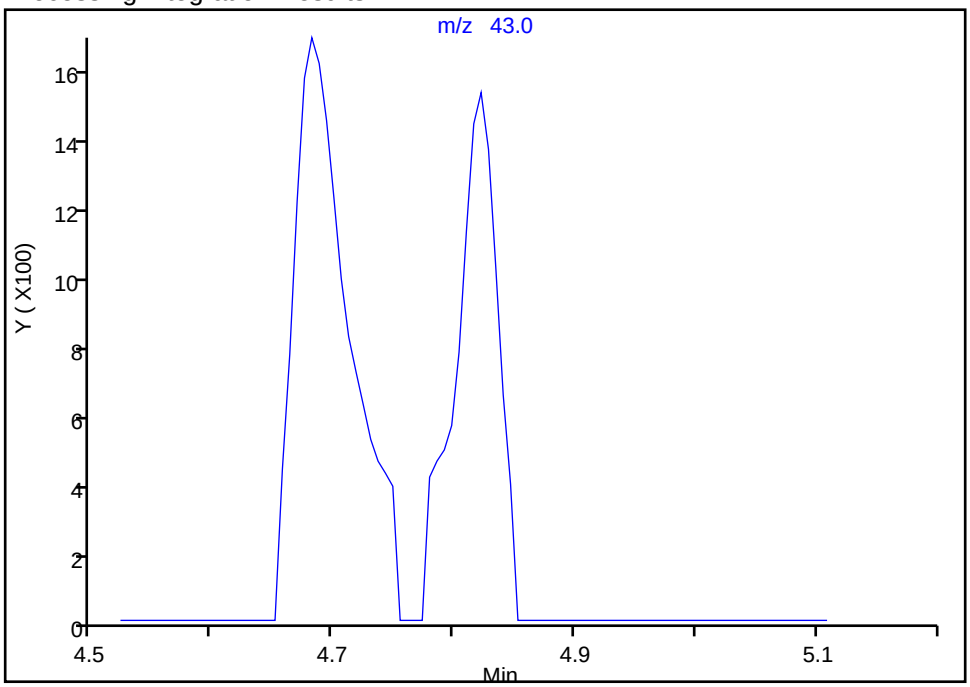
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0721.D
Injection Date: 09-Jun-2022 15:00:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: AK ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

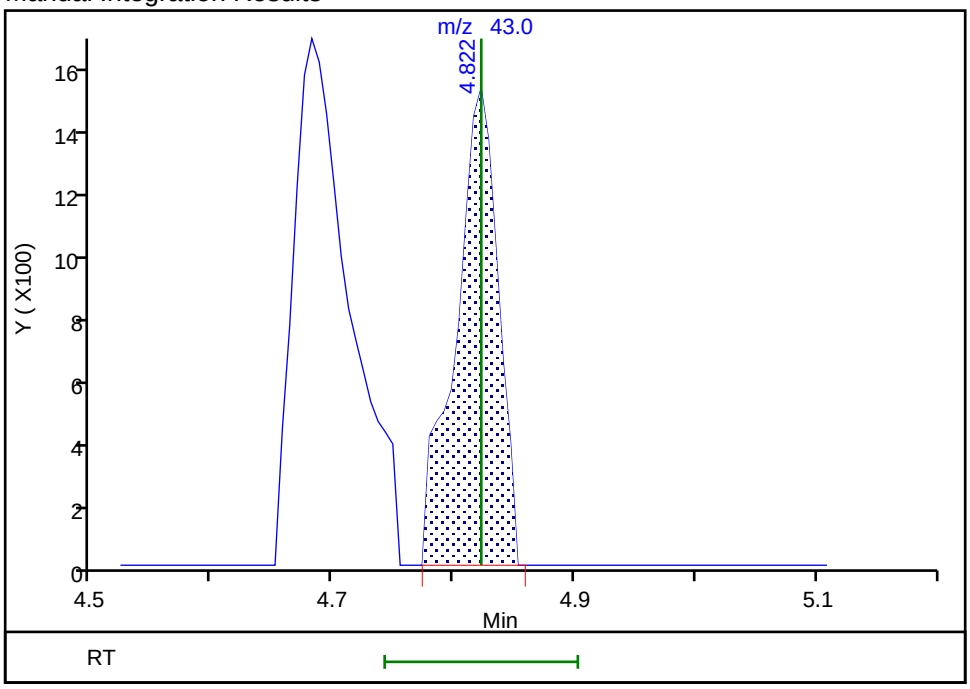
Not Detected
Expected RT: 4.82

Processing Integration Results



Manual Integration Results

RT: 4.82
Area: 3557
Amount: 0.613791
Amount Units: ug/L



Reviewer: kiwana, 10-Jun-2022 09:30:33
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

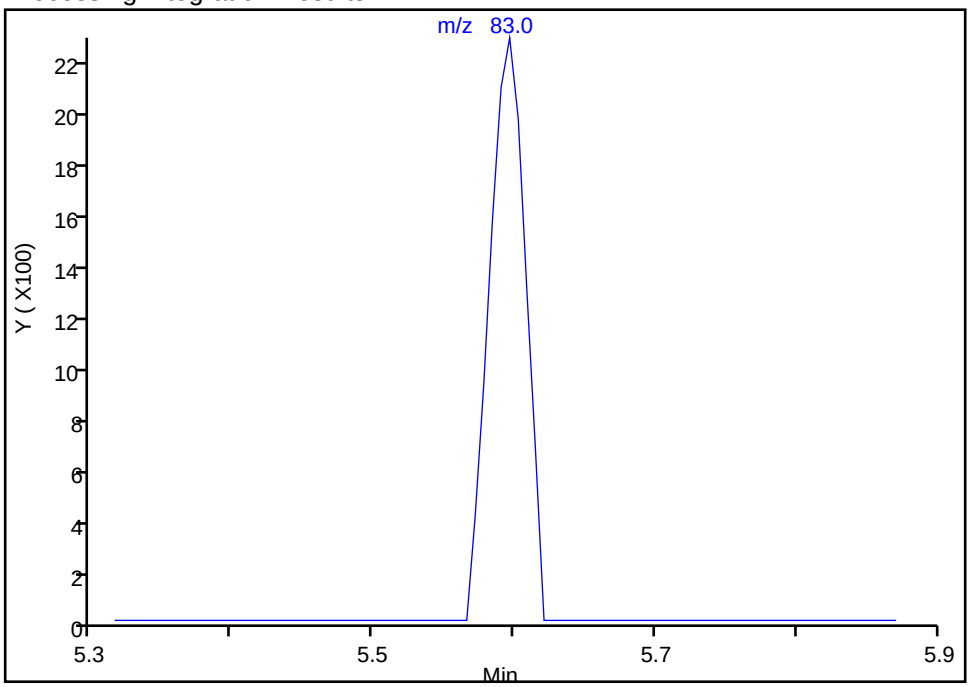
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0721.D
Injection Date: 09-Jun-2022 15:00:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: AK ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

68 Dichlorobromomethane, CAS: 75-27-4

Signal: 1

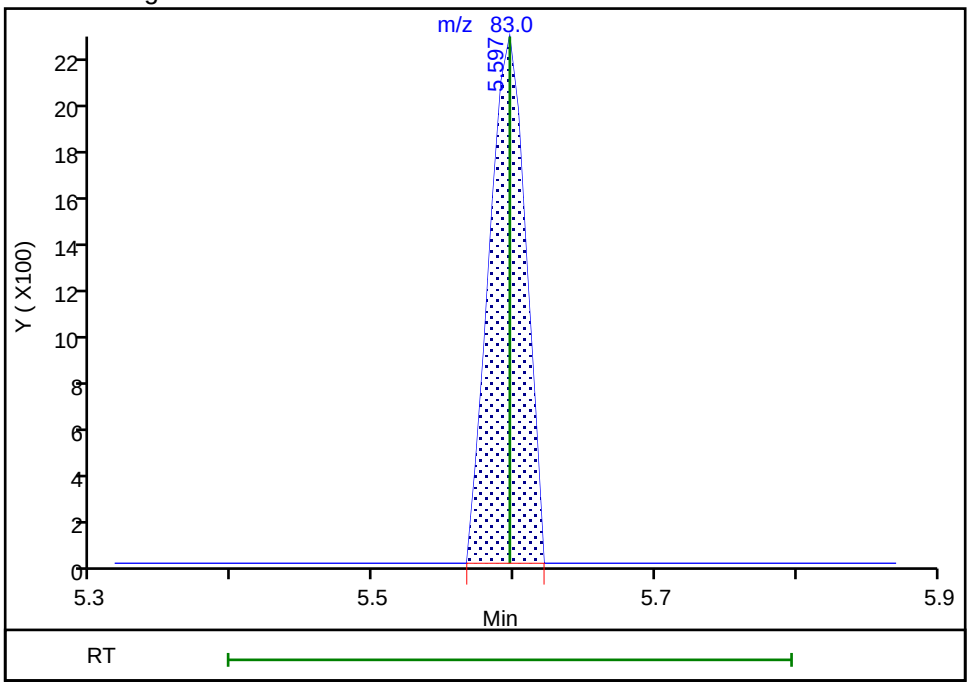
Not Detected
Expected RT: 5.60

Processing Integration Results



Manual Integration Results

RT: 5.60
Area: 4114
Amount: 0.391356
Amount Units: ug/L



Reviewer: kiwana, 10-Jun-2022 09:30:40
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins Buffalo

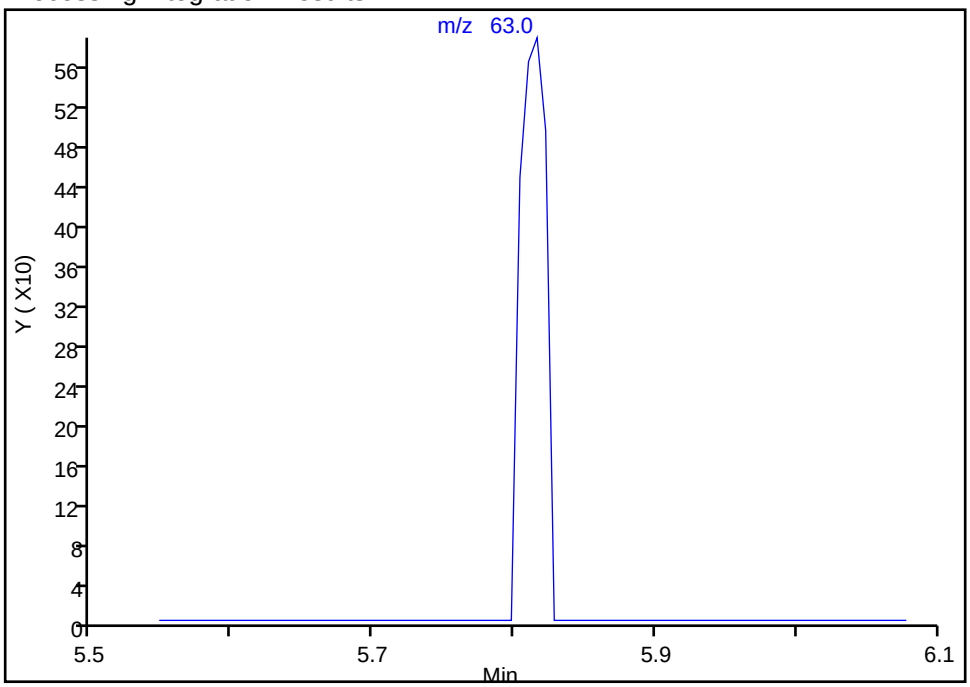
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0721.D
Injection Date: 09-Jun-2022 15:00:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: AK ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

69 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

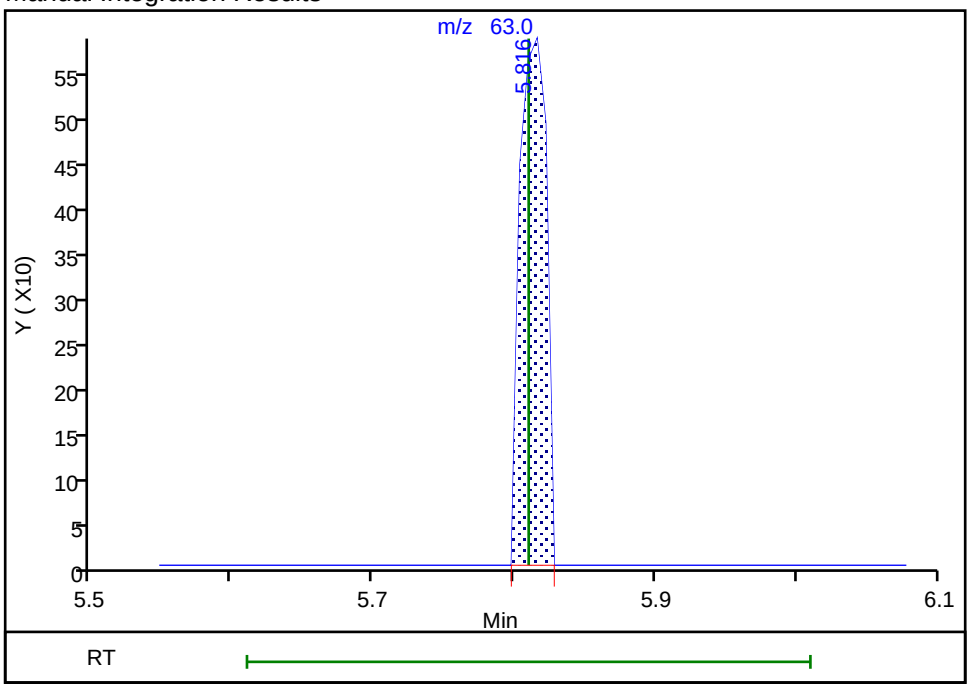
Not Detected
Expected RT: 5.81

Processing Integration Results



Manual Integration Results

RT: 5.82
Area: 760
Amount: 0.938415
Amount Units: ug/L



Reviewer: kiwana, 10-Jun-2022 09:30:44
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

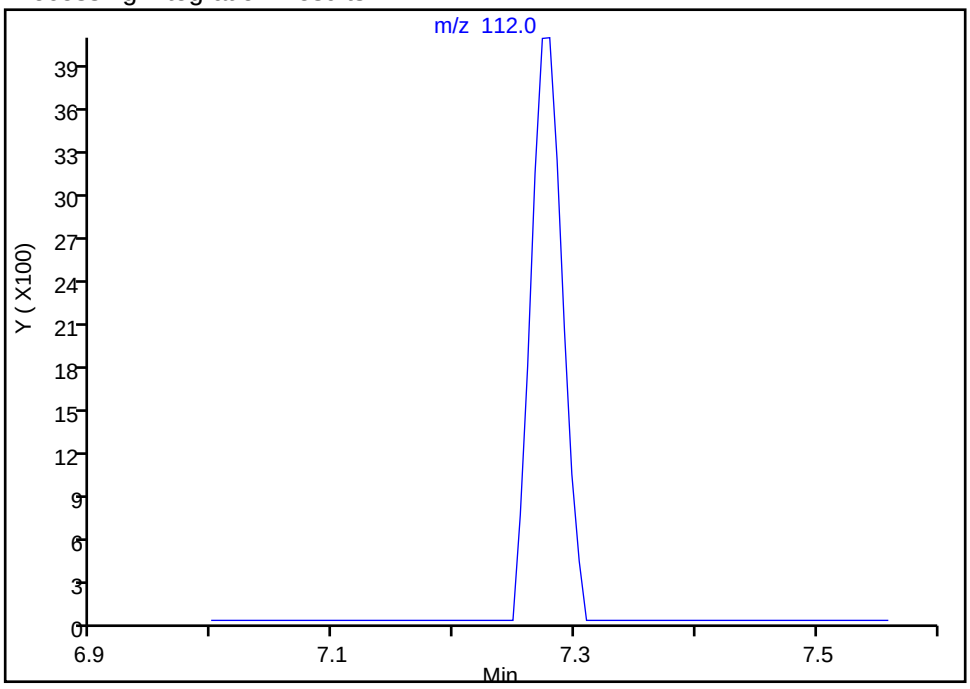
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0721.D
Injection Date: 09-Jun-2022 15:00:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: AK ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

87 Chlorobenzene, CAS: 108-90-7

Signal: 1

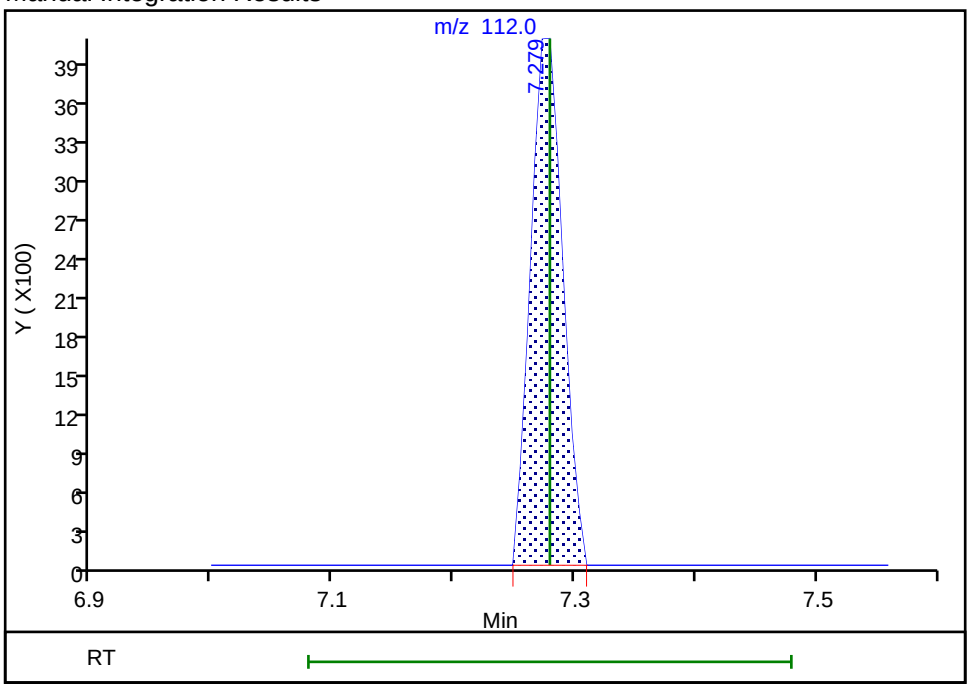
Not Detected
Expected RT: 7.28

Processing Integration Results



Manual Integration Results

RT: 7.28
Area: 7362
Amount: 0.380993
Amount Units: ug/L



Reviewer: kiwana, 10-Jun-2022 09:30:54
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins Buffalo

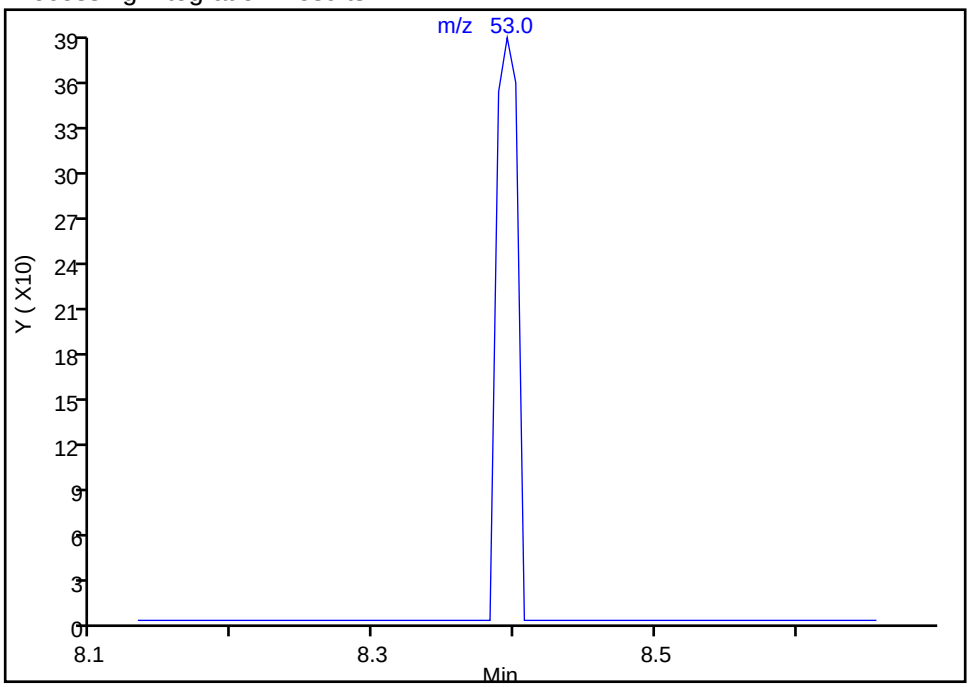
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0721.D
Injection Date: 09-Jun-2022 15:00:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: AK ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

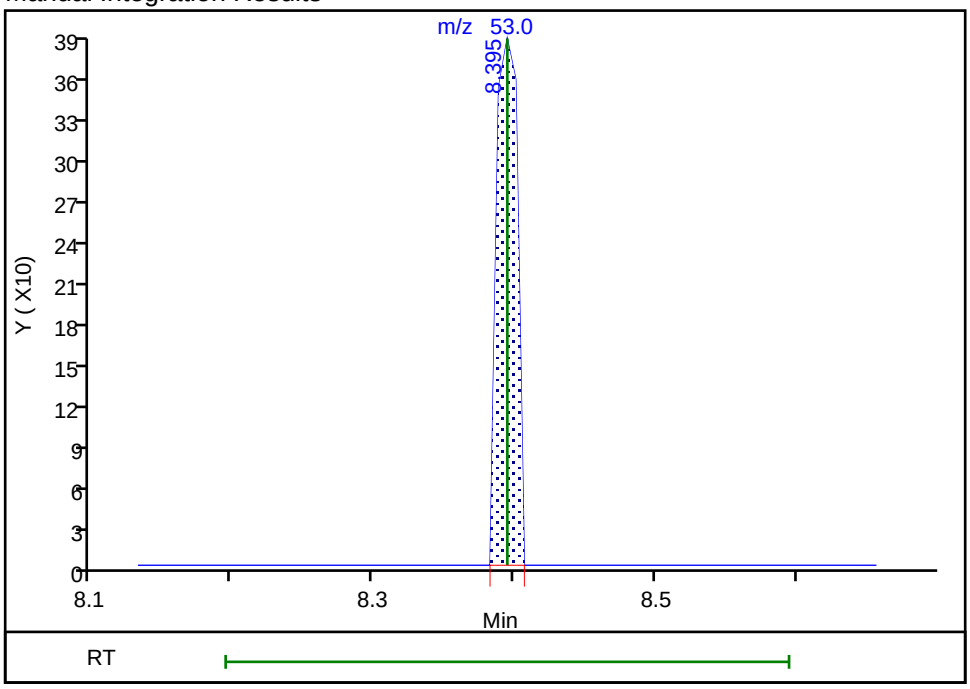
Not Detected
Expected RT: 8.39

Processing Integration Results



Manual Integration Results

RT: 8.39
Area: 402
Amount: 0.764306
Amount Units: ug/L



Reviewer: kiwana, 10-Jun-2022 09:31:00
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

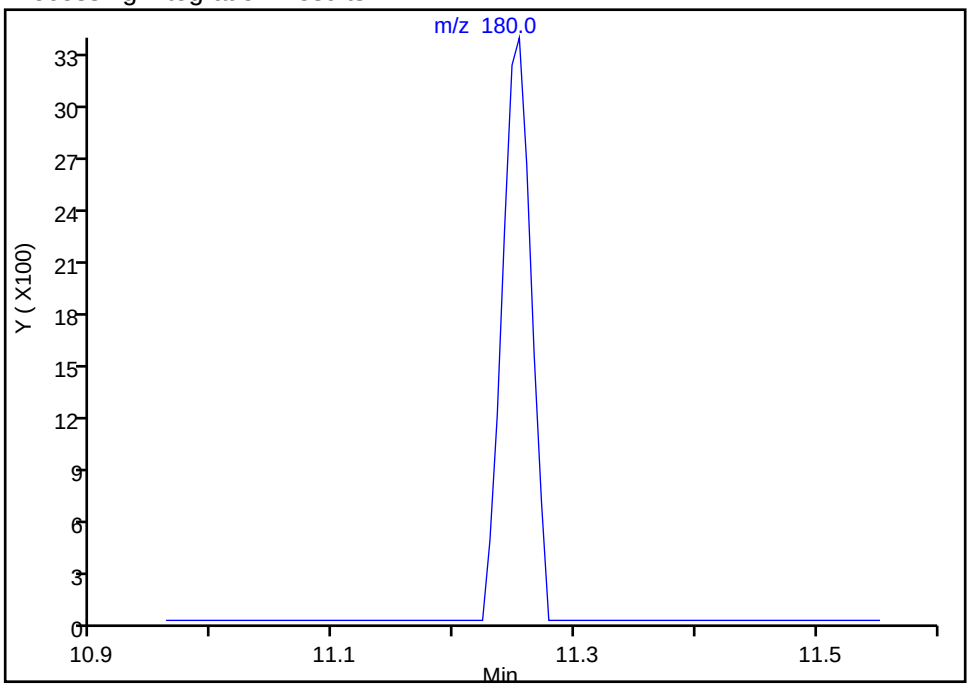
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0721.D
Injection Date: 09-Jun-2022 15:00:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: AK ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

122 1,2,3-Trichlorobenzene, CAS: 87-61-6

Signal: 1

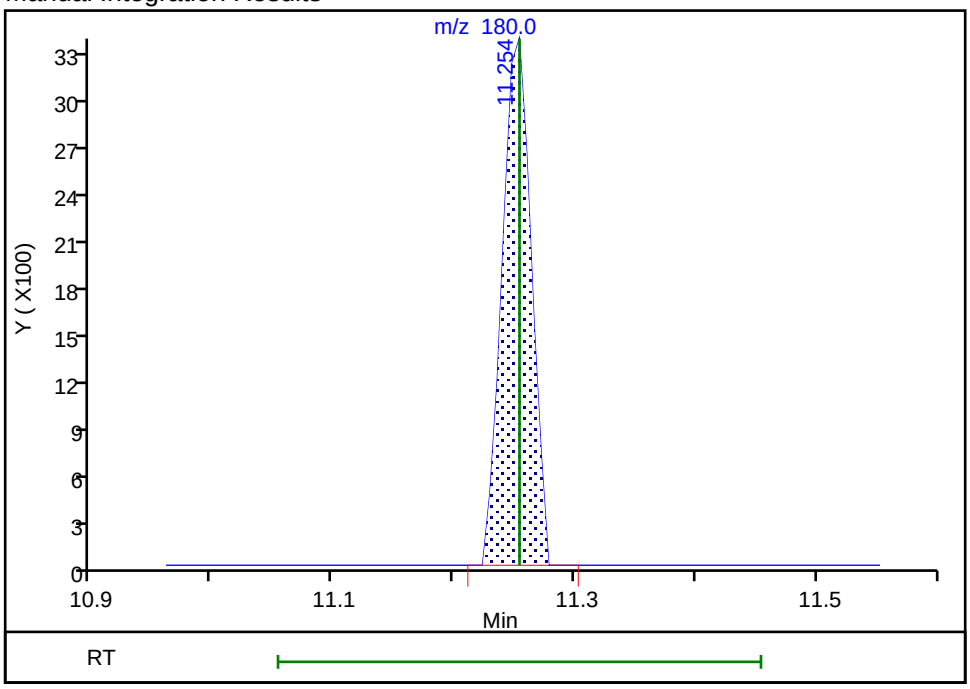
Not Detected
Expected RT: 11.25

Processing Integration Results



Manual Integration Results

RT: 11.25
Area: 5588
Amount: 0.372320
Amount Units: ug/L



Reviewer: kiwana, 10-Jun-2022 09:31:10
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0722.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 09-Jun-2022 15:22:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0105984-011
Operator ID: AK Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Jun-2022 12:36:20 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: kiwana Date: 10-Jun-2022 09:32:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.895	4.895	0.000	98	149125	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.255	7.255	0.000	88	280462	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.163	9.163	0.000	96	331035	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.414	4.414	0.000	92	263747	25.0	26.2	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.670	4.670	0.000	99	138478	25.0	25.5	
$ 5 Toluene-d8 (Surr)	98	6.103	6.103	0.000	95	698794	25.0	24.9	
$ 6 4-Bromofluorobenzene (Surr)	174	8.212	8.212	0.000	94	219887	25.0	25.3	
10 Dichlorodifluoromethane	85	1.183	1.177	0.006	96	8464	1.00	0.8488	
12 Chloromethane	50	1.347	1.347	0.000	98	13519	1.00	1.09	
13 Vinyl chloride	62	1.427	1.421	0.006	96	8032	1.00	0.9583	
144 Butadiene	54	1.439	1.445	-0.006	98	6788	1.00	0.9425	
14 Bromomethane	94	1.719	1.713	0.006	92	5765	1.00	1.02	M
15 Chloroethane	64	1.811	1.805	0.006	89	3858	1.00	0.99	
17 Trichlorofluoromethane	101	2.006	2.000	0.006	91	9834	1.00	0.9145	
16 Dichlorofluoromethane	67	2.012	2.006	0.006	95	12108	1.00	1.04	
18 Ethyl ether	59	2.286	2.286	0.000	92	5601	1.00	0.8841	
20 Acrolein	56	2.451	2.451	0.000	97	7126	5.00	5.04	
21 112TCTFE	101	2.469	2.475	-0.006	87	3359	1.00	1.01	Ma
22 1,1-Dichloroethene	96	2.487	2.487	0.000	92	4203	1.00	0.9581	
23 Acetone	43	2.597	2.597	0.000	98	20942	5.00	5.77	
25 Iodomethane	142	2.634	2.634	0.000	98	11469	1.00	0.8025	
26 Carbon disulfide	76	2.670	2.664	0.006	99	15944	1.00	0.7211	
28 3-Chloro-1-propene	41	2.835	2.829	0.006	88	12090	1.00	0.8245	
27 Methyl acetate	43	2.878	2.872	0.006	100	17389	2.00	2.06	
30 Methylene Chloride	84	2.963	2.963	0.000	95	7710	1.00	0.8498	
31 2-Methyl-2-propanol	59	3.121	3.115	0.006	97	9467	10.0	9.33	
32 Methyl tert-butyl ether	73	3.158	3.158	0.000	96	17451	1.00	0.8920	
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.000	92	5647	1.00	0.7742	
33 Acrylonitrile	53	3.219	3.213	0.006	99	42031	10.0	10.1	
35 Hexane	57	3.347	3.347	0.000	93	7504	1.00	0.9854	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.542	3.542	0.000	94	12475	1.00	0.8013	
37 Vinyl acetate	43	3.591	3.585	0.006	97	35499	2.00	1.75	
44 2,2-Dichloropropane	77	3.987	3.993	-0.006	88	6992	1.00	0.7220	
45 cis-1,2-Dichloroethene	96	4.024	4.018	0.006	81	7084	1.00	0.8421	
43 2-Butanone (MEK)	43	4.048	4.042	0.006	97	26756	5.00	5.16	
48 Chlorobromomethane	128	4.219	4.219	0.000	94	4175	1.00	0.8262	
49 Tetrahydrofuran	42	4.237	4.231	0.006	89	6118	2.00	1.93	
50 Chloroform	83	4.286	4.286	0.000	95	13263	1.00	0.8687	
51 1,1,1-Trichloroethane	97	4.383	4.383	0.000	95	7983	1.00	0.8934	a
52 Cyclohexane	56	4.389	4.390	-0.001	94	9222	1.00	1.00	
55 Carbon tetrachloride	117	4.499	4.499	0.000	94	7257	1.00	0.9293	
54 1,1-Dichloropropene	75	4.511	4.505	0.006	91	6410	1.00	0.8490	
57 Benzene	78	4.676	4.676	0.000	94	22271	1.00	0.8009	
53 Isobutyl alcohol	43	4.682	4.676	0.006	90	12606	25.0	26.5	
58 1,2-Dichloroethane	62	4.731	4.731	0.000	95	11834	1.00	0.9314	
59 n-Heptane	43	4.822	4.822	0.000	94	8839	1.00	0.9741	
62 Trichloroethene	95	5.176	5.176	0.000	94	5452	1.00	0.7135	
64 Methylcyclohexane	83	5.273	5.274	-0.001	97	6895	1.00	1.05	
65 1,2-Dichloropropane	63	5.365	5.365	0.000	87	6704	1.00	0.8152	
66 1,4-Dioxane	88	5.481	5.475	0.006	31	501	20.0	23.5	Ma
67 Dibromomethane	93	5.481	5.475	0.006	94	5304	1.00	0.9343	
68 Dichlorobromomethane	83	5.597	5.597	0.000	95	8120	1.00	0.7778	
69 2-Chloroethyl vinyl ether	63	5.810	5.810	0.000	80	2324	1.00	1.31	a
72 cis-1,3-Dichloropropene	75	5.926	5.926	0.000	91	8292	1.00	0.7867	
73 4-Methyl-2-pentanone (MIBK)	43	6.029	6.029	0.000	97	50829	5.00	4.92	
74 Toluene	92	6.151	6.151	0.000	98	11896	1.00	0.7565	
77 trans-1,3-Dichloropropene	75	6.365	6.365	0.000	91	6988	1.00	0.7595	
75 Ethyl methacrylate	69	6.389	6.389	0.000	92	6182	1.00	0.8332	
79 1,1,2-Trichloroethane	83	6.511	6.511	0.000	89	4548	1.00	0.8657	
81 Tetrachloroethene	166	6.572	6.572	0.000	91	4669	1.00	0.8960	
82 1,3-Dichloropropane	76	6.639	6.639	0.000	96	7981	1.00	0.8548	
80 2-Hexanone	43	6.682	6.682	0.000	99	34773	5.00	4.86	
83 Chlorodibromomethane	129	6.828	6.828	0.000	88	6770	1.00	0.8451	
84 Ethylene Dibromide	107	6.913	6.913	0.000	95	5965	1.00	0.8555	
87 Chlorobenzene	112	7.279	7.279	0.000	97	15206	1.00	0.8111	
88 Ethylbenzene	91	7.340	7.340	0.000	97	19813	1.00	0.9187	
89 1,1,1,2-Tetrachloroethane	131	7.346	7.346	0.000	92	6579	1.00	0.8029	
90 m-Xylene & p-Xylene	106	7.432	7.432	0.000	97	7196	1.00	0.9200	
91 o-Xylene	106	7.761	7.761	0.000	96	7863	1.00	0.9345	
92 Styrene	104	7.779	7.779	0.000	94	13442	1.00	0.7267	
95 Bromoform	173	7.980	7.974	0.006	94	4295	1.00	0.8571	
94 Isopropylbenzene	105	8.047	8.047	0.000	96	18356	1.00	1.19	
101 Bromobenzene	156	8.334	8.334	0.000	87	7284	1.00	0.7898	
97 1,1,2,2-Tetrachloroethane	83	8.358	8.358	0.000	93	9591	1.00	0.9053	
99 N-Propylbenzene	91	8.389	8.383	0.006	98	25458	1.00	1.07	
100 1,2,3-Trichloropropane	110	8.389	8.389	0.000	89	2440	1.00	0.9176	
98 trans-1,4-Dichloro-2-butene	53	8.395	8.395	0.000	65	1503	1.00	1.16	
103 2-Chlorotoluene	126	8.480	8.480	0.000	96	5602	1.00	0.6837	
102 1,3,5-Trimethylbenzene	105	8.529	8.529	0.000	94	17733	1.00	1.10	
105 4-Chlorotoluene	126	8.572	8.572	0.000	96	5598	1.00	0.6854	
106 tert-Butylbenzene	134	8.797	8.797	0.000	95	2795	1.00	1.17	
107 1,2,4-Trimethylbenzene	105	8.846	8.846	0.000	96	18944	1.00	1.05	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.980	8.980	0.000	95	21169	1.00	1.14	
110 4-Isopropyltoluene	119	9.096	9.096	0.000	96	17447	1.00	1.11	
111 1,3-Dichlorobenzene	146	9.108	9.108	0.000	97	13480	1.00	0.7733	
113 1,4-Dichlorobenzene	146	9.181	9.181	0.000	95	15679	1.00	0.8623	
115 n-Butylbenzene	91	9.443	9.443	0.000	98	19192	1.00	1.04	
116 1,2-Dichlorobenzene	146	9.504	9.504	0.000	97	15872	1.00	0.8522	
117 1,2-Dibromo-3-Chloropropane	75	10.181	10.181	0.000	78	1812	1.00	0.8999	
119 1,2,4-Trichlorobenzene	180	10.846	10.846	0.000	94	10744	1.00	0.7750	
120 Hexachlorobutadiene	225	10.949	10.949	0.000	93	4778	1.00	0.7383	
121 Naphthalene	128	11.059	11.059	0.000	97	28034	1.00	0.7610	
122 1,2,3-Trichlorobenzene	180	11.254	11.254	0.000	95	11413	1.00	0.7888	a
S 125 1,2-Dichloroethene, Total	1				0			1.62	
S 126 1,3-Dichloropropene, Total	1				0			1.55	
S 124 Xylenes, Total	1				0			1.85	
S 123 Total BTEX	1				0			4.33	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00224	Amount Added:	1.00	Units: uL	
GAS CORP mix_00513	Amount Added:	1.00	Units: uL	
D 8260 IS/SUR_00041	Amount Added:	1.00	Units: uL	Run Reagent

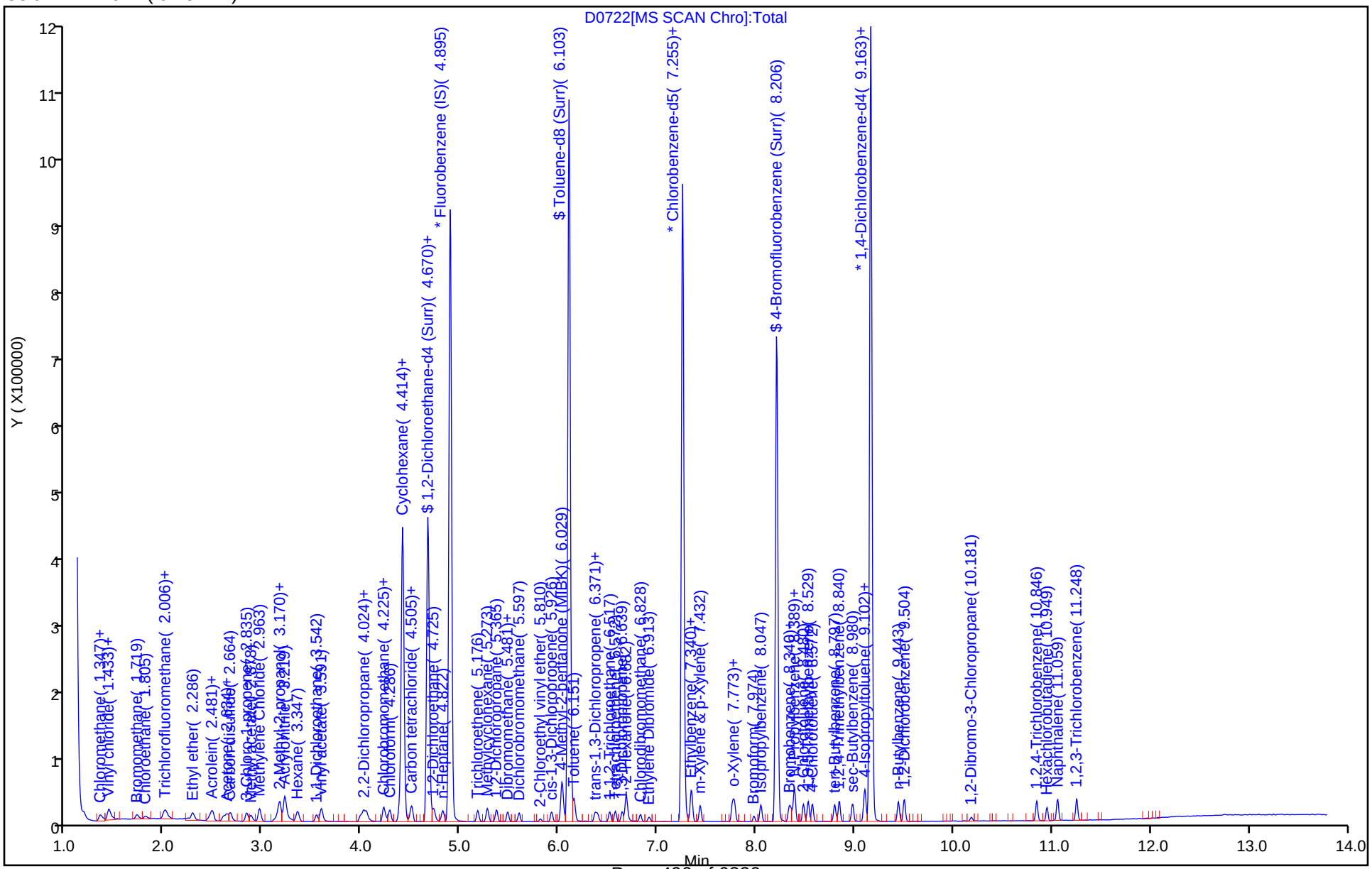
Report Date: 10-Jun-2022 12:36:21 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0722.D

Injection Date:	09-Jun-2022 15:22:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	IC			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

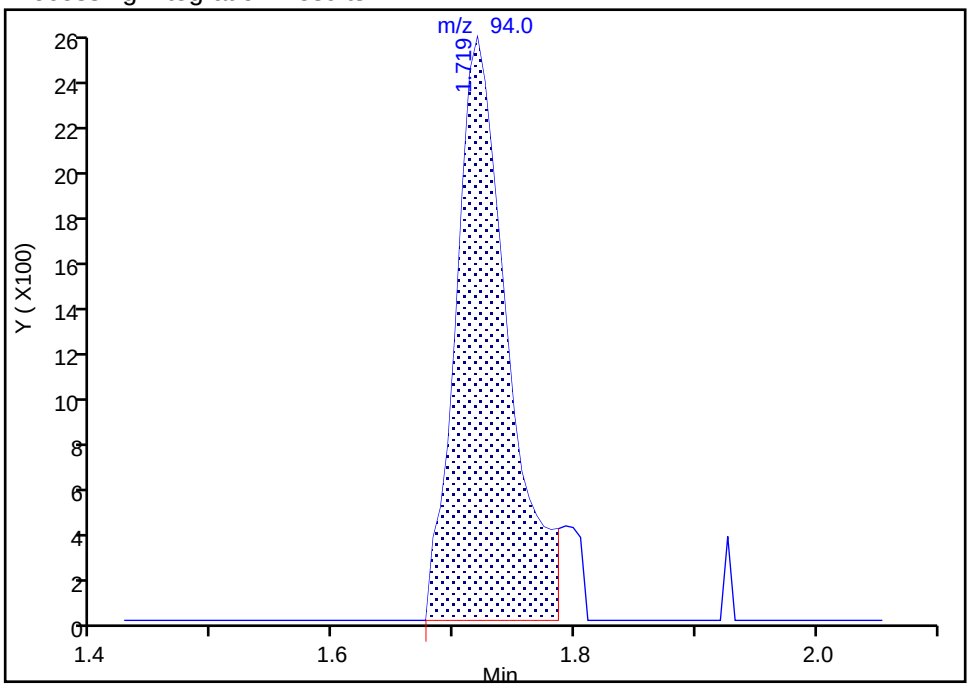
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0722.D
Injection Date: 09-Jun-2022 15:22:30 Instrument ID: HP5975D
Lims ID: IC
Client ID:
Operator ID: AK ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

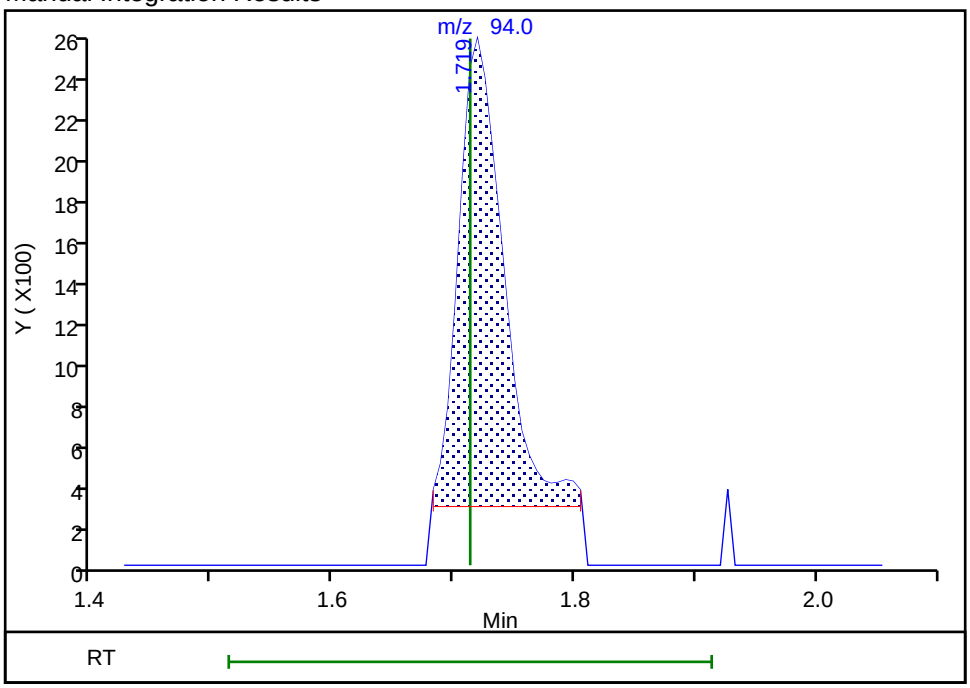
Processing Integration Results

RT: 1.72
Area: 7484
Amount: 1.273772
Amount Units: ug/L



Manual Integration Results

RT: 1.72
Area: 5765
Amount: 1.023998
Amount Units: ug/L



Reviewer: HillL, 10-Jun-2022 11:47:41
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

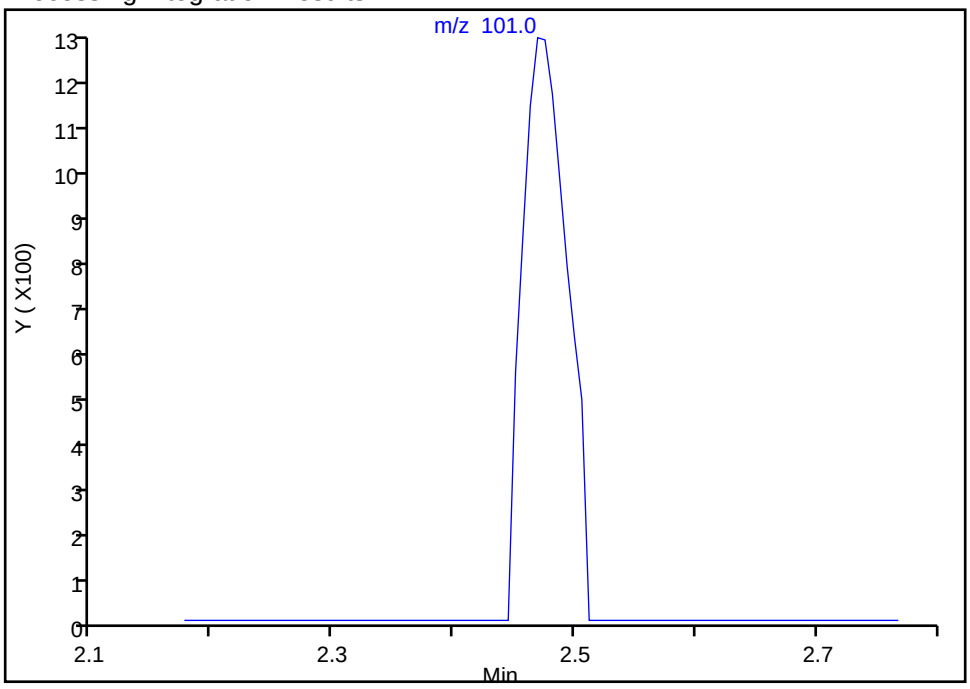
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0722.D
Injection Date: 09-Jun-2022 15:22:30 Instrument ID: HP5975D
Lims ID: IC
Client ID:
Operator ID: AK ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

21 112TCTFE, CAS: 76-13-1

Signal: 1

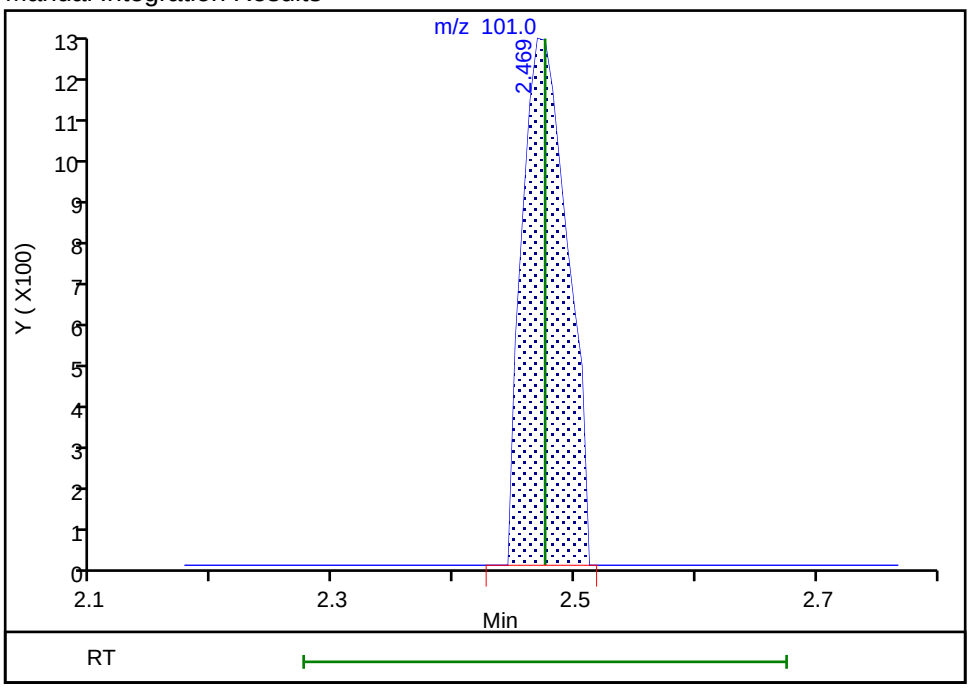
Not Detected
Expected RT: 2.48

Processing Integration Results



Manual Integration Results

RT: 2.47
Area: 3359
Amount: 1.014257
Amount Units: ug/L



Reviewer: kiwana, 10-Jun-2022 09:31:45
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

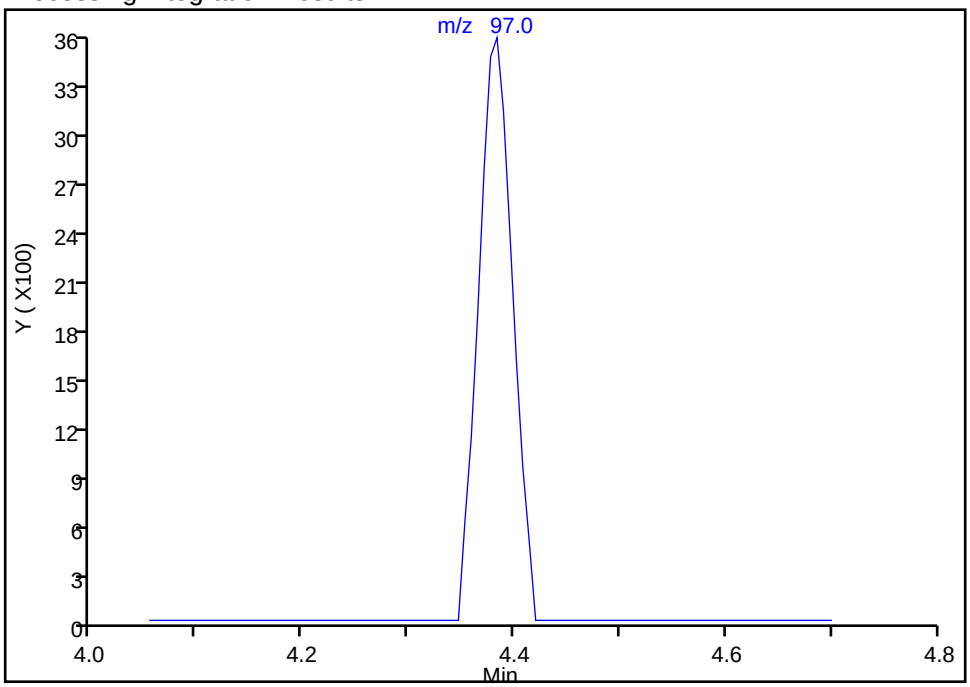
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0722.D
Injection Date: 09-Jun-2022 15:22:30 Instrument ID: HP5975D
Lims ID: IC
Client ID:
Operator ID: AK ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

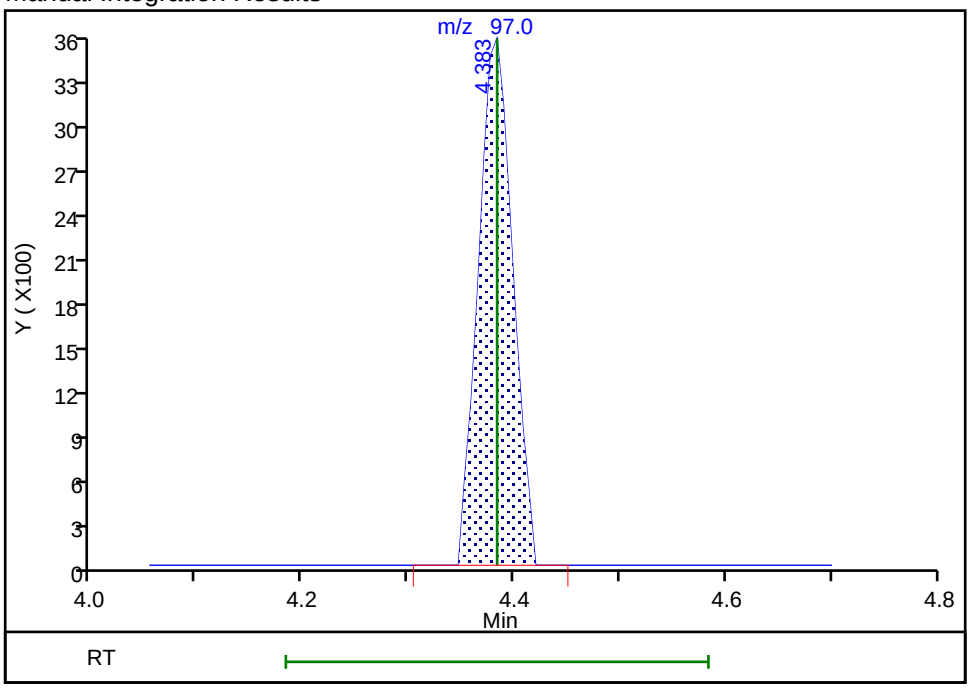
Not Detected
Expected RT: 4.38

Processing Integration Results



Manual Integration Results

RT: 4.38
Area: 7983
Amount: 0.893353
Amount Units: ug/L



Reviewer: kiwana, 10-Jun-2022 09:31:59
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

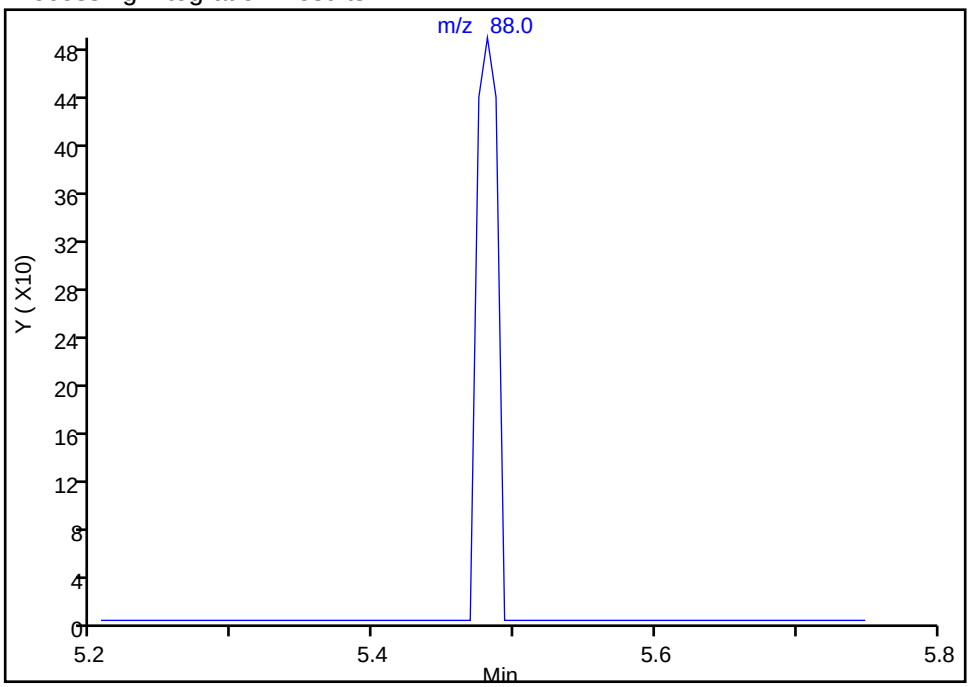
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0722.D
Injection Date: 09-Jun-2022 15:22:30 Instrument ID: HP5975D
Lims ID: IC
Client ID:
Operator ID: AK ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

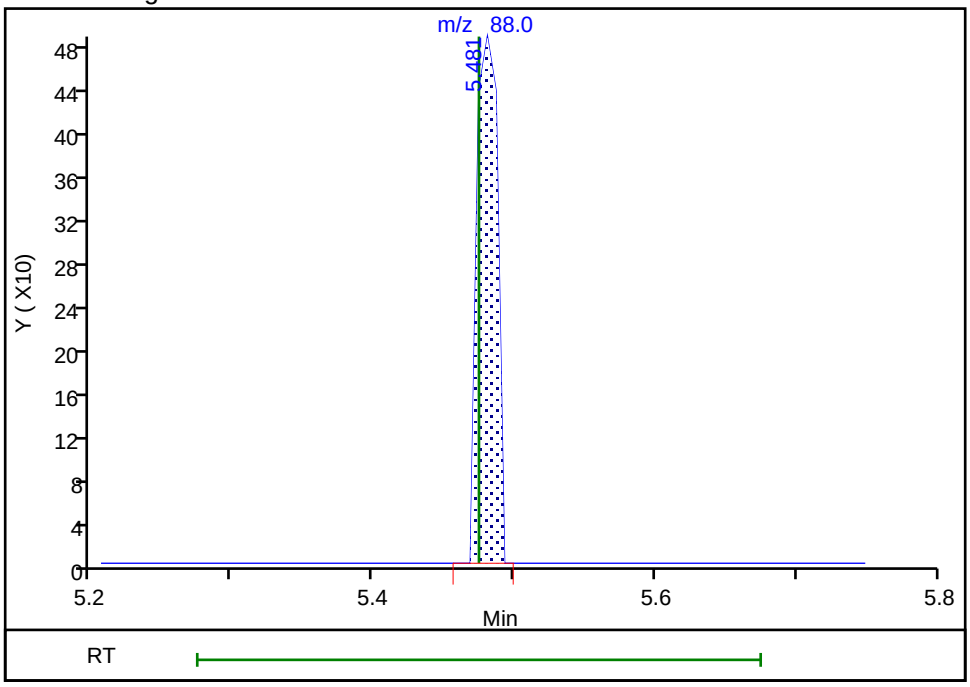
Not Detected
Expected RT: 5.47

Processing Integration Results



RT: 5.48
Area: 501
Amount: 23.546902
Amount Units: ug/L

Manual Integration Results



Reviewer: kiwana, 10-Jun-2022 09:32:08
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

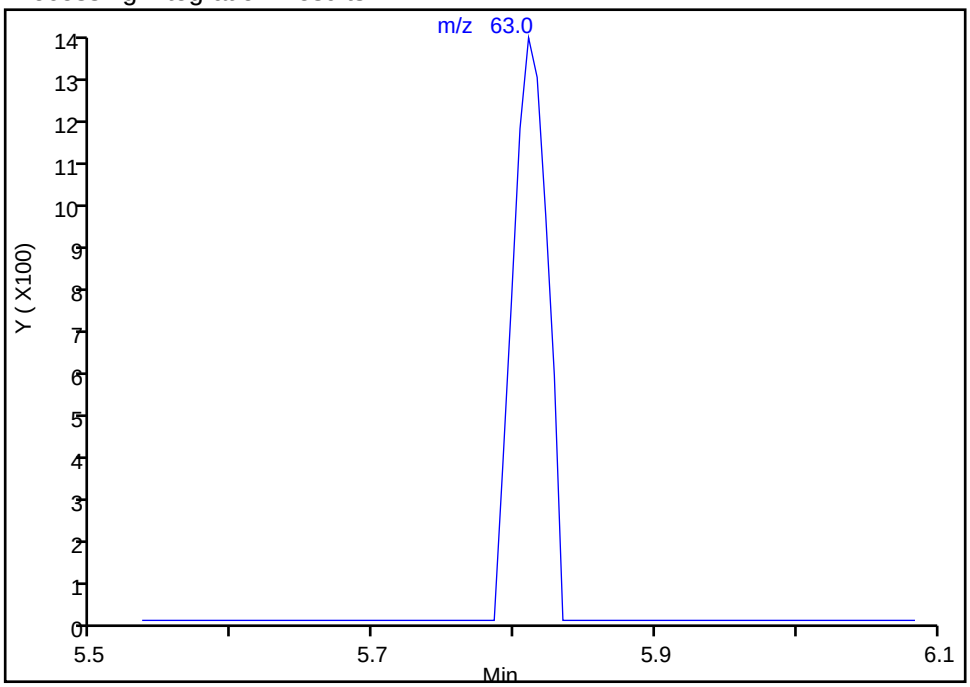
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0722.D
Injection Date: 09-Jun-2022 15:22:30 Instrument ID: HP5975D
Lims ID: IC
Client ID:
Operator ID: AK ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

69 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

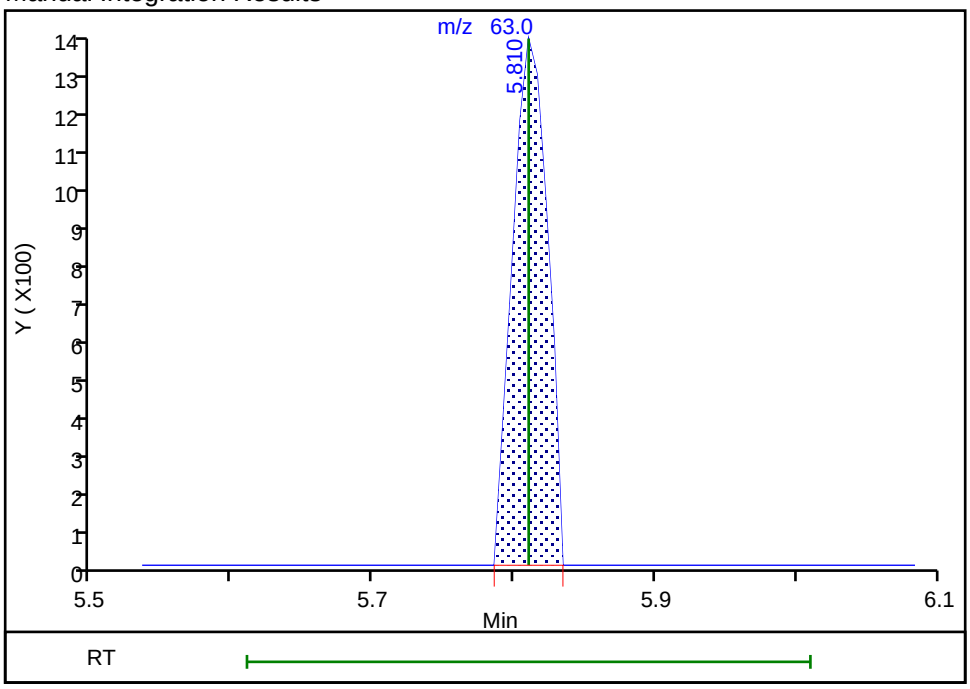
Not Detected
Expected RT: 5.81

Processing Integration Results



Manual Integration Results

RT: 5.81
Area: 2324
Amount: 1.307789
Amount Units: ug/L



Reviewer: kiwana, 10-Jun-2022 09:32:17
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

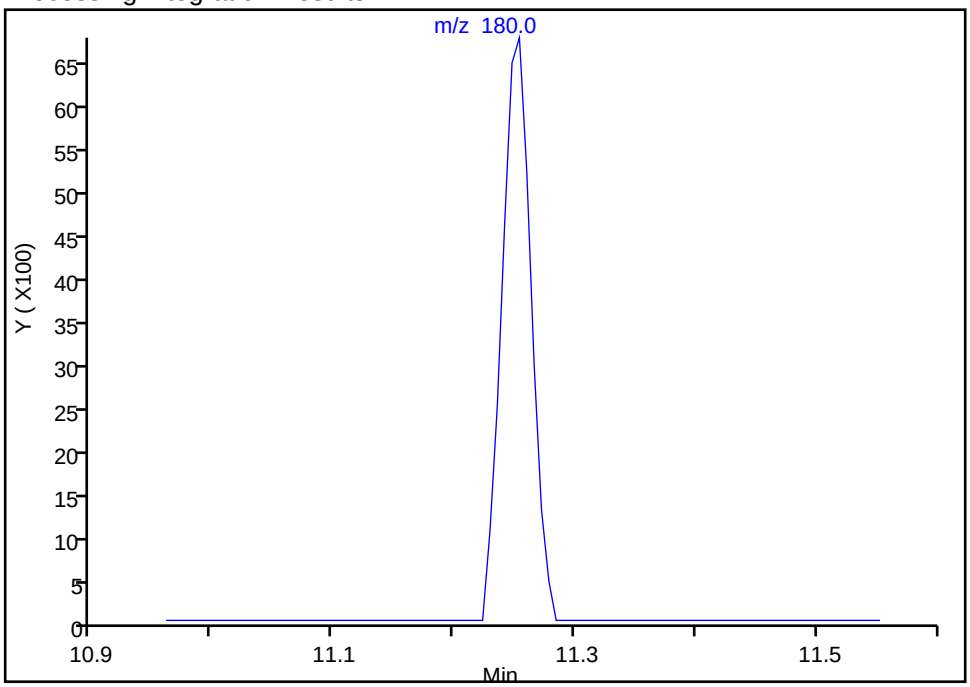
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0722.D
Injection Date: 09-Jun-2022 15:22:30 Instrument ID: HP5975D
Lims ID: IC
Client ID:
Operator ID: AK ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

122 1,2,3-Trichlorobenzene, CAS: 87-61-6

Signal: 1

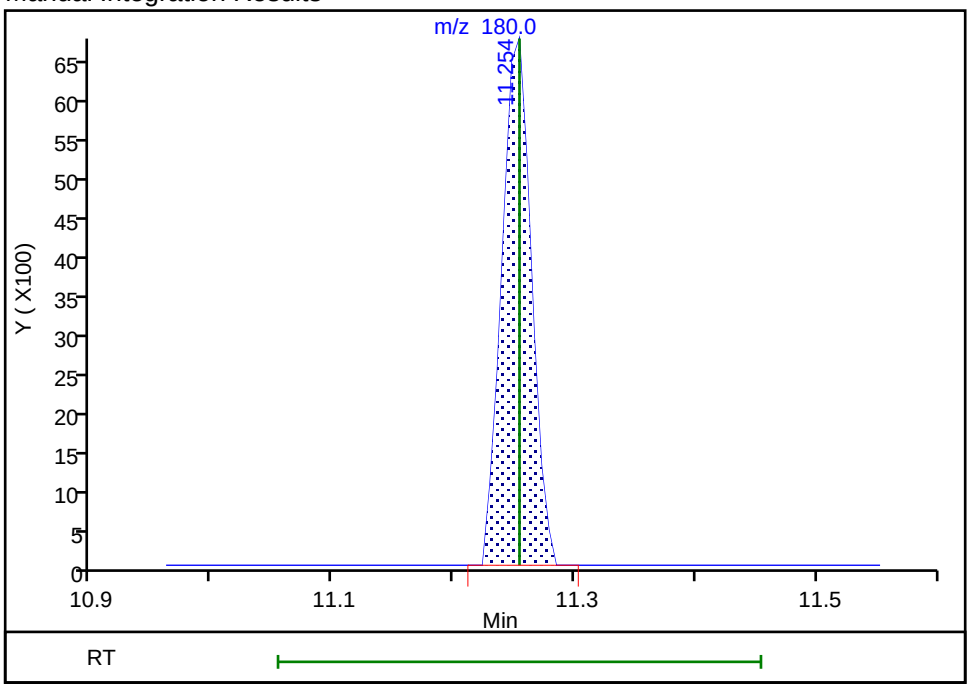
Not Detected
Expected RT: 11.25

Processing Integration Results



Manual Integration Results

RT: 11.25
Area: 11413
Amount: 0.788784
Amount Units: ug/L



Reviewer: kiwana, 10-Jun-2022 09:32:32
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0723.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 09-Jun-2022 15:44:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0105984-012
Operator ID: AK Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Jun-2022 12:36:23 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: kiwana Date: 10-Jun-2022 09:34:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.895	4.895	0.000	98	155730	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.255	7.255	0.000	87	295064	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.163	9.163	0.000	95	353327	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.414	4.414	0.000	93	265818	25.0	25.3	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.670	4.670	0.000	98	144021	25.0	25.4	
$ 5 Toluene-d8 (Surr)	98	6.102	6.103	-0.001	95	738567	25.0	25.0	
$ 6 4-Bromofluorobenzene (Surr)	174	8.212	8.212	0.000	94	235034	25.0	25.7	
10 Dichlorodifluoromethane	85	1.183	1.177	0.006	99	16538	2.00	1.59	
12 Chloromethane	50	1.353	1.347	0.006	97	23145	2.00	1.79	
13 Vinyl chloride	62	1.426	1.421	0.005	95	14179	2.00	1.62	
144 Butadiene	54	1.439	1.445	-0.006	89	12217	2.00	1.62	
14 Bromomethane	94	1.719	1.713	0.006	93	12063	2.00	2.05	
15 Chloroethane	64	1.811	1.805	0.006	95	7148	2.00	1.76	
17 Trichlorofluoromethane	101	2.000	2.000	0.000	94	17921	2.00	1.60	
16 Dichlorofluoromethane	67	2.012	2.006	0.006	96	20875	2.00	1.72	
18 Ethyl ether	59	2.286	2.286	0.000	96	13408	2.00	2.03	
20 Acrolein	56	2.451	2.451	0.000	98	15021	10.0	10.2	
21 112TCTFE	101	2.475	2.475	0.000	93	11783	2.00	2.10	
22 1,1-Dichloroethene	96	2.487	2.487	0.000	92	11816	2.00	2.03	
23 Acetone	43	2.597	2.597	0.000	99	41739	10.0	11.0	
25 Iodomethane	142	2.634	2.634	0.000	99	30071	2.00	2.01	
26 Carbon disulfide	76	2.670	2.664	0.006	100	45078	2.00	1.95	
28 3-Chloro-1-propene	41	2.829	2.829	0.000	90	30402	2.00	1.99	
27 Methyl acetate	43	2.877	2.872	0.005	100	37145	4.00	4.20	
30 Methylene Chloride	84	2.963	2.963	0.000	94	17942	2.00	2.01	
31 2-Methyl-2-propanol	59	3.121	3.115	0.006	94	20532	20.0	19.4	
32 Methyl tert-butyl ether	73	3.158	3.158	0.000	98	39667	2.00	1.94	
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.000	92	15651	2.00	2.05	
33 Acrylonitrile	53	3.219	3.213	0.006	98	88763	20.0	20.3	
35 Hexane	57	3.347	3.347	0.000	95	22213	2.00	2.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.542	3.542	0.000	96	33154	2.00	2.04	
37 Vinyl acetate	43	3.591	3.585	0.006	97	82842	4.00	3.91	
44 2,2-Dichloropropane	77	3.993	3.993	0.000	91	20421	2.00	2.02	
45 cis-1,2-Dichloroethene	96	4.024	4.018	0.006	86	17437	2.00	1.98	
43 2-Butanone (MEK)	43	4.048	4.042	0.006	97	56069	10.0	10.4	
48 Chlorobromomethane	128	4.219	4.219	0.000	94	10627	2.00	2.01	
49 Tetrahydrofuran	42	4.237	4.231	0.006	92	13523	4.00	4.08	
50 Chloroform	83	4.286	4.286	0.000	95	32102	2.00	2.01	
51 1,1,1-Trichloroethane	97	4.383	4.383	0.000	98	24372	2.00	2.11	
52 Cyclohexane	56	4.389	4.390	-0.001	96	26910	2.00	2.00	
55 Carbon tetrachloride	117	4.499	4.499	0.000	97	22351	2.00	2.13	
54 1,1-Dichloropropene	75	4.505	4.505	0.000	92	19919	2.00	2.04	
57 Benzene	78	4.676	4.676	0.000	95	59885	2.00	2.06	
53 Isobutyl alcohol	43	4.682	4.676	0.006	88	23796	50.0	47.9	
58 1,2-Dichloroethane	62	4.731	4.731	0.000	96	28087	2.00	2.12	
59 n-Heptane	43	4.822	4.822	0.000	94	25987	2.00	2.06	
62 Trichloroethene	95	5.176	5.176	0.000	95	16355	2.00	2.05	
64 Methylcyclohexane	83	5.273	5.274	-0.001	96	20601	2.00	2.04	
65 1,2-Dichloropropane	63	5.365	5.365	0.000	93	17505	2.00	2.04	
66 1,4-Dioxane	88	5.474	5.475	-0.001	35	1644	40.0	42.1	Ma
67 Dibromomethane	93	5.481	5.475	0.006	95	11962	2.00	2.02	
68 Dichlorobromomethane	83	5.596	5.597	-0.001	96	21648	2.00	1.99	
69 2-Chloroethyl vinyl ether	63	5.810	5.810	0.000	90	5727	2.00	2.05	
72 cis-1,3-Dichloropropene	75	5.926	5.926	0.000	90	20714	2.00	1.88	
73 4-Methyl-2-pentanone (MIBK)	43	6.029	6.029	0.000	98	111138	10.0	10.2	
74 Toluene	92	6.151	6.151	0.000	97	33365	2.00	2.02	
77 trans-1,3-Dichloropropene	75	6.365	6.365	0.000	92	19130	2.00	1.98	
75 Ethyl methacrylate	69	6.389	6.389	0.000	93	15769	2.00	2.02	
79 1,1,2-Trichloroethane	83	6.511	6.511	0.000	92	11169	2.00	2.02	
81 Tetrachloroethene	166	6.572	6.572	0.000	95	14883	2.00	2.08	
82 1,3-Dichloropropane	76	6.639	6.639	0.000	95	19759	2.00	2.01	
80 2-Hexanone	43	6.682	6.682	0.000	99	81918	10.0	10.9	
83 Chlorodibromomethane	129	6.828	6.828	0.000	89	16469	2.00	1.95	
84 Ethylene Dibromide	107	6.913	6.913	0.000	96	14598	2.00	1.99	
87 Chlorobenzene	112	7.279	7.279	0.000	96	40492	2.00	2.05	
88 Ethylbenzene	91	7.340	7.340	0.000	98	58762	2.00	2.09	
89 1,1,1,2-Tetrachloroethane	131	7.346	7.346	0.000	95	17403	2.00	2.02	
90 m-Xylene & p-Xylene	106	7.431	7.432	-0.001	98	22216	2.00	2.08	
91 o-Xylene	106	7.761	7.761	0.000	97	22755	2.00	2.04	
92 Styrene	104	7.779	7.779	0.000	93	36978	2.00	1.90	
95 Bromoform	173	7.980	7.974	0.006	93	10248	2.00	1.94	
94 Isopropylbenzene	105	8.047	8.047	0.000	97	55898	2.00	2.03	
101 Bromobenzene	156	8.334	8.334	0.000	92	18831	2.00	1.91	
97 1,1,2,2-Tetrachloroethane	83	8.358	8.358	0.000	94	21701	2.00	1.92	
99 N-Propylbenzene	91	8.389	8.383	0.005	98	75031	2.00	2.07	
100 1,2,3-Trichloropropane	110	8.389	8.389	-0.001	89	5428	2.00	1.91	
98 trans-1,4-Dichloro-2-butene	53	8.395	8.395	0.000	70	3773	2.00	1.88	
103 2-Chlorotoluene	126	8.480	8.480	0.000	97	16279	2.00	1.86	
102 1,3,5-Trimethylbenzene	105	8.529	8.529	0.000	95	52618	2.00	2.03	
105 4-Chlorotoluene	126	8.571	8.572	-0.001	97	17307	2.00	1.99	
106 tert-Butylbenzene	134	8.797	8.797	0.000	95	9958	2.00	2.10	
107 1,2,4-Trimethylbenzene	105	8.846	8.846	0.000	97	55387	2.00	2.01	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.980	8.980	0.000	95	66111	2.00	2.05	
110 4-Isopropyltoluene	119	9.096	9.096	0.000	97	56289	2.00	2.02	
111 1,3-Dichlorobenzene	146	9.108	9.108	0.000	98	37099	2.00	1.99	
113 1,4-Dichlorobenzene	146	9.181	9.181	0.000	96	39275	2.00	2.02	
115 n-Butylbenzene	91	9.443	9.443	0.000	98	56139	2.00	2.02	
116 1,2-Dichlorobenzene	146	9.504	9.504	0.000	98	40473	2.00	2.04	
117 1,2-Dibromo-3-Chloropropane	75	10.181	10.181	0.000	80	4127	2.00	1.92	
119 1,2,4-Trichlorobenzene	180	10.845	10.846	-0.001	95	26895	2.00	1.82	
120 Hexachlorobutadiene	225	10.949	10.949	0.000	96	12548	2.00	1.82	
121 Naphthalene	128	11.059	11.059	0.000	97	62630	2.00	1.59	
122 1,2,3-Trichlorobenzene	180	11.254	11.254	0.000	96	28066	2.00	1.82	
S 125 1,2-Dichloroethene, Total	1				0			4.04	
S 126 1,3-Dichloropropene, Total	1				0			3.86	
S 124 Xylenes, Total	1				0			4.12	
S 123 Total BTEX	1				0			10.3	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00224	Amount Added:	2.00	Units: uL	
GAS CORP mix_00513	Amount Added:	2.00	Units: uL	
D 8260 IS/SUR_00041	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 10-Jun-2022 12:36:23 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0723.D

Injection Date:	09-Jun-2022 15:44:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	IC 2			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)

Manual Integration/User Assign Peak Report

Eurofins Buffalo

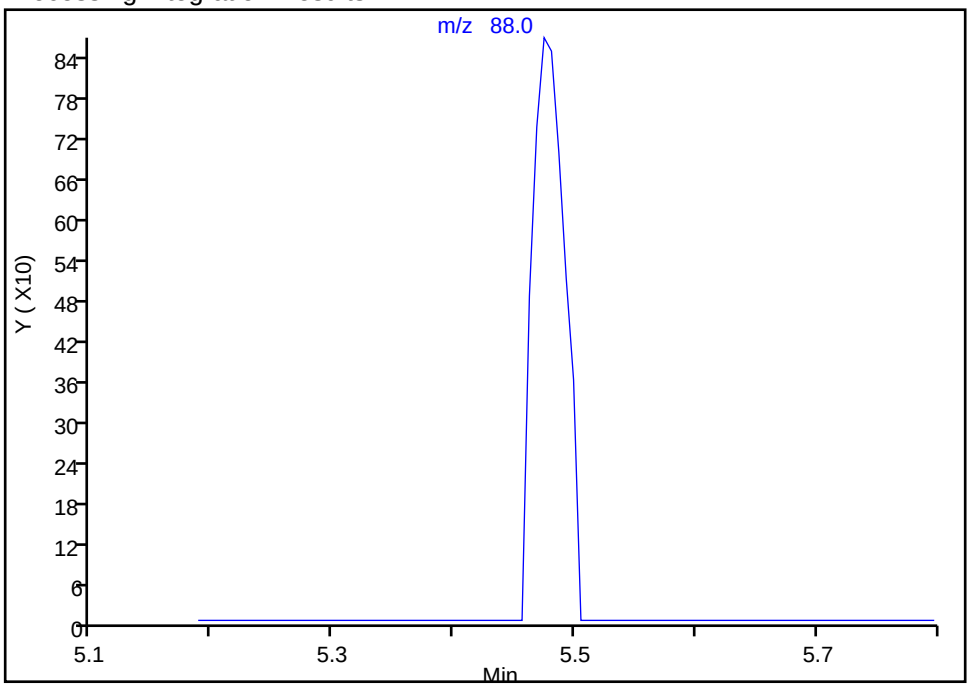
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0723.D
Injection Date: 09-Jun-2022 15:44:30 Instrument ID: HP5975D
Lims ID: IC 2
Client ID:
Operator ID: AK ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

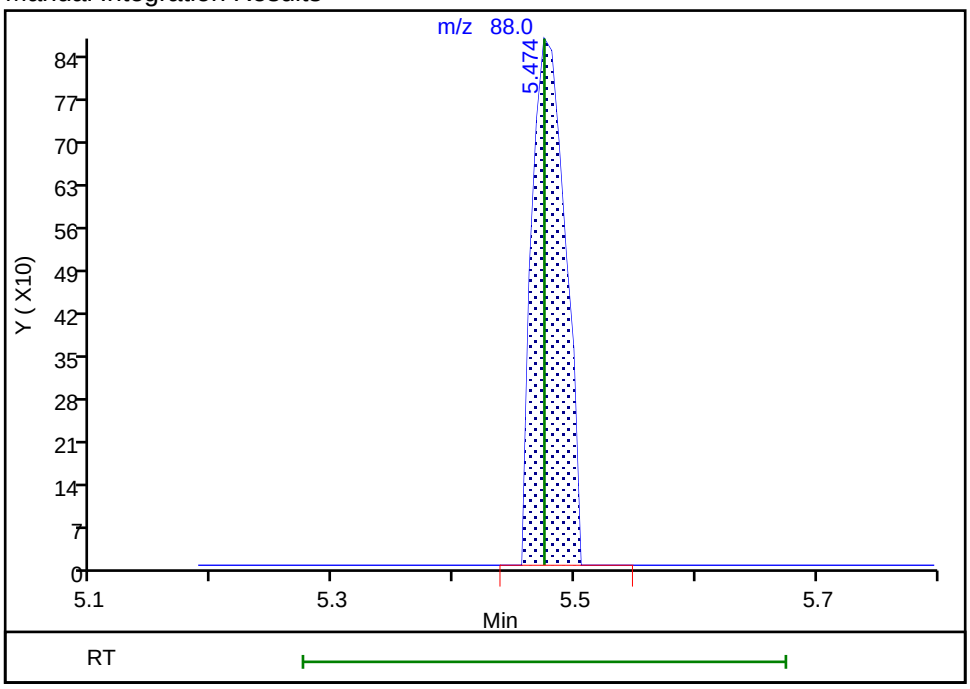
Not Detected
Expected RT: 5.47

Processing Integration Results



Manual Integration Results

RT: 5.47
Area: 1644
Amount: 42.083597
Amount Units: ug/L



Reviewer: kiwana, 10-Jun-2022 09:34:21
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0724.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 09-Jun-2022 16:06:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0105984-013
Operator ID: AK Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Jun-2022 12:36:25 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: kiwana Date: 10-Jun-2022 09:36:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.895	4.895	0.000	98	160613	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.255	7.255	0.000	87	307619	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.163	9.163	0.000	95	360555	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.414	4.414	0.000	94	269697	25.0	24.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.670	4.670	0.000	98	147092	25.0	25.2	
$ 5 Toluene-d8 (Surr)	98	6.103	6.103	0.000	95	773479	25.0	25.1	
$ 6 4-Bromofluorobenzene (Surr)	174	8.206	8.206	0.000	93	244992	25.0	25.7	
10 Dichlorodifluoromethane	85	1.183	1.183	0.000	99	58504	5.00	5.45	
12 Chloromethane	50	1.347	1.347	0.000	98	67211	5.00	5.05	
13 Vinyl chloride	62	1.427	1.427	0.000	98	46567	5.00	5.16	
144 Butadiene	54	1.439	1.439	0.000	91	37323	5.00	4.81	
14 Bromomethane	94	1.725	1.725	0.000	94	32059	5.00	5.29	
15 Chloroethane	64	1.817	1.817	0.000	95	21539	5.00	5.14	
17 Trichlorofluoromethane	101	2.000	2.000	0.000	98	62434	5.00	5.39	
16 Dichlorofluoromethane	67	2.018	2.018	0.000	97	61521	5.00	4.91	
18 Ethyl ether	59	2.286	2.286	0.000	97	33736	5.00	4.94	
20 Acrolein	56	2.451	2.451	0.000	99	36177	25.0	23.8	
21 112TCTFE	101	2.475	2.475	0.000	92	31371	5.00	4.56	
22 1,1-Dichloroethene	96	2.487	2.487	0.000	94	30379	5.00	4.58	
23 Acetone	43	2.603	2.603	0.000	99	95705	25.0	24.5	
25 Iodomethane	142	2.634	2.634	0.000	99	72992	5.00	4.74	
26 Carbon disulfide	76	2.670	2.670	0.000	100	108667	5.00	4.56	
28 3-Chloro-1-propene	41	2.829	2.829	0.000	89	73623	5.00	4.66	
27 Methyl acetate	43	2.878	2.878	0.000	100	92179	10.0	10.1	
30 Methylene Chloride	84	2.963	2.963	0.000	95	44053	5.00	4.90	
31 2-Methyl-2-propanol	59	3.121	3.121	0.000	97	56499	50.0	51.7	
32 Methyl tert-butyl ether	73	3.158	3.158	0.000	98	100541	5.00	4.77	
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.000	93	38449	5.00	4.89	
33 Acrylonitrile	53	3.219	3.219	0.000	99	227049	50.0	50.4	
35 Hexane	57	3.347	3.347	0.000	95	56460	5.00	4.51	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.542	3.542	0.000	97	82810	5.00	4.94	
37 Vinyl acetate	43	3.591	3.591	0.000	97	216741	10.0	9.91	
44 2,2-Dichloropropane	77	3.993	3.993	0.000	92	50375	5.00	4.83	
45 cis-1,2-Dichloroethene	96	4.024	4.024	0.000	86	43983	5.00	4.85	
43 2-Butanone (MEK)	43	4.048	4.048	0.000	97	140572	25.0	25.2	
48 Chlorobromomethane	128	4.219	4.219	0.000	94	26972	5.00	4.96	
49 Tetrahydrofuran	42	4.237	4.237	0.000	93	34189	10.0	10.0	
50 Chloroform	83	4.286	4.286	0.000	96	78180	5.00	4.75	
51 1,1,1-Trichloroethane	97	4.383	4.383	0.000	98	60167	5.00	4.70	
52 Cyclohexane	56	4.389	4.389	0.000	95	72588	5.00	4.51	
55 Carbon tetrachloride	117	4.499	4.499	0.000	98	53637	5.00	4.55	
54 1,1-Dichloropropene	75	4.511	4.511	0.000	94	48318	5.00	4.45	
57 Benzene	78	4.676	4.676	0.000	96	147384	5.00	4.92	
53 Isobutyl alcohol	43	4.682	4.682	0.000	92	61768	125.0	120.7	
58 1,2-Dichloroethane	62	4.731	4.731	0.000	95	66730	5.00	4.88	
59 n-Heptane	43	4.822	4.822	0.000	95	70045	5.00	4.79	
62 Trichloroethene	95	5.176	5.176	0.000	95	40264	5.00	4.89	
64 Methylcyclohexane	83	5.273	5.273	0.000	96	52856	5.00	4.32	
65 1,2-Dichloropropane	63	5.365	5.365	0.000	94	44338	5.00	5.01	
66 1,4-Dioxane	88	5.475	5.475	0.000	35	4151	100.0	80.9	
67 Dibromomethane	93	5.481	5.481	0.000	97	30256	5.00	4.95	
68 Dichlorobromomethane	83	5.597	5.597	0.000	97	55495	5.00	4.94	
69 2-Chloroethyl vinyl ether	63	5.810	5.810	0.000	92	15564	5.00	4.16	
72 cis-1,3-Dichloropropene	75	5.926	5.926	0.000	91	55427	5.00	4.88	
73 4-Methyl-2-pentanone (MIBK)	43	6.029	6.029	0.000	98	295335	25.0	26.0	
74 Toluene	92	6.151	6.151	0.000	97	84862	5.00	4.92	
77 trans-1,3-Dichloropropene	75	6.365	6.365	0.000	98	48710	5.00	4.83	
75 Ethyl methacrylate	69	6.389	6.389	0.000	94	43114	5.00	5.30	
79 1,1,2-Trichloroethane	83	6.517	6.517	0.000	94	30090	5.00	5.22	
81 Tetrachloroethene	166	6.572	6.572	0.000	95	39380	5.00	4.80	
82 1,3-Dichloropropane	76	6.639	6.639	0.000	94	52697	5.00	5.15	
80 2-Hexanone	43	6.682	6.682	0.000	99	216911	25.0	27.6	
83 Chlorodibromomethane	129	6.828	6.828	0.000	90	43998	5.00	5.01	
84 Ethylene Dibromide	107	6.913	6.913	0.000	97	38865	5.00	5.08	
87 Chlorobenzene	112	7.279	7.279	0.000	96	102214	5.00	4.97	
88 Ethylbenzene	91	7.340	7.340	0.000	99	152081	5.00	4.79	
89 1,1,1,2-Tetrachloroethane	131	7.346	7.346	0.000	96	42983	5.00	4.78	
90 m-Xylene & p-Xylene	106	7.432	7.432	0.000	98	58810	5.00	4.80	
91 o-Xylene	106	7.761	7.761	0.000	97	60971	5.00	4.77	
92 Styrene	104	7.779	7.779	0.000	94	103449	5.00	5.10	
95 Bromoform	173	7.980	7.980	0.000	95	26832	5.00	4.88	
94 Isopropylbenzene	105	8.047	8.047	0.000	96	153660	5.00	4.22	
101 Bromobenzene	156	8.334	8.334	0.000	92	47370	5.00	4.72	
97 1,1,2,2-Tetrachloroethane	83	8.358	8.358	0.000	95	55810	5.00	4.84	
99 N-Propylbenzene	91	8.389	8.389	0.000	99	194062	5.00	4.49	
100 1,2,3-Trichloropropane	110	8.389	8.389	0.000	86	14432	5.00	4.98	
98 trans-1,4-Dichloro-2-butene	53	8.395	8.395	0.000	76	11931	5.00	4.52	
103 2-Chlorotoluene	126	8.480	8.480	0.000	97	41920	5.00	4.70	
102 1,3,5-Trimethylbenzene	105	8.529	8.529	0.000	94	142570	5.00	4.42	
105 4-Chlorotoluene	126	8.572	8.572	0.000	97	44921	5.00	5.05	
106 tert-Butylbenzene	134	8.797	8.797	0.000	95	25890	5.00	4.14	
107 1,2,4-Trimethylbenzene	105	8.846	8.846	0.000	97	150881	5.00	4.55	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.980	8.980	0.000	95	174363	5.00	4.24	
110 4-Isopropyltoluene	119	9.096	9.096	0.000	97	153992	5.00	4.32	
111 1,3-Dichlorobenzene	146	9.108	9.108	0.000	98	94587	5.00	4.98	
113 1,4-Dichlorobenzene	146	9.181	9.181	0.000	96	98159	5.00	4.96	
115 n-Butylbenzene	91	9.443	9.443	0.000	99	142892	5.00	4.30	
116 1,2-Dichlorobenzene	146	9.504	9.504	0.000	98	99216	5.00	4.89	
117 1,2-Dibromo-3-Chloropropane	75	10.181	10.181	0.000	82	10175	5.00	4.64	
119 1,2,4-Trichlorobenzene	180	10.846	10.846	0.000	95	68004	5.00	4.50	
120 Hexachlorobutadiene	225	10.949	10.949	0.000	98	31405	5.00	4.46	
121 Naphthalene	128	11.059	11.059	0.000	97	170464	5.00	4.25	
122 1,2,3-Trichlorobenzene	180	11.254	11.254	0.000	95	70833	5.00	4.49	
S 125 1,2-Dichloroethene, Total	1				0			9.75	
S 126 1,3-Dichloropropene, Total	1				0			9.71	
S 124 Xylenes, Total	1				0			9.57	
S 123 Total BTEX	1				0			24.2	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00224	Amount Added:	5.00	Units: uL	
GAS CORP mix_00513	Amount Added:	5.00	Units: uL	
D 8260 IS/SUR_00041	Amount Added:	1.00	Units: uL	Run Reagent

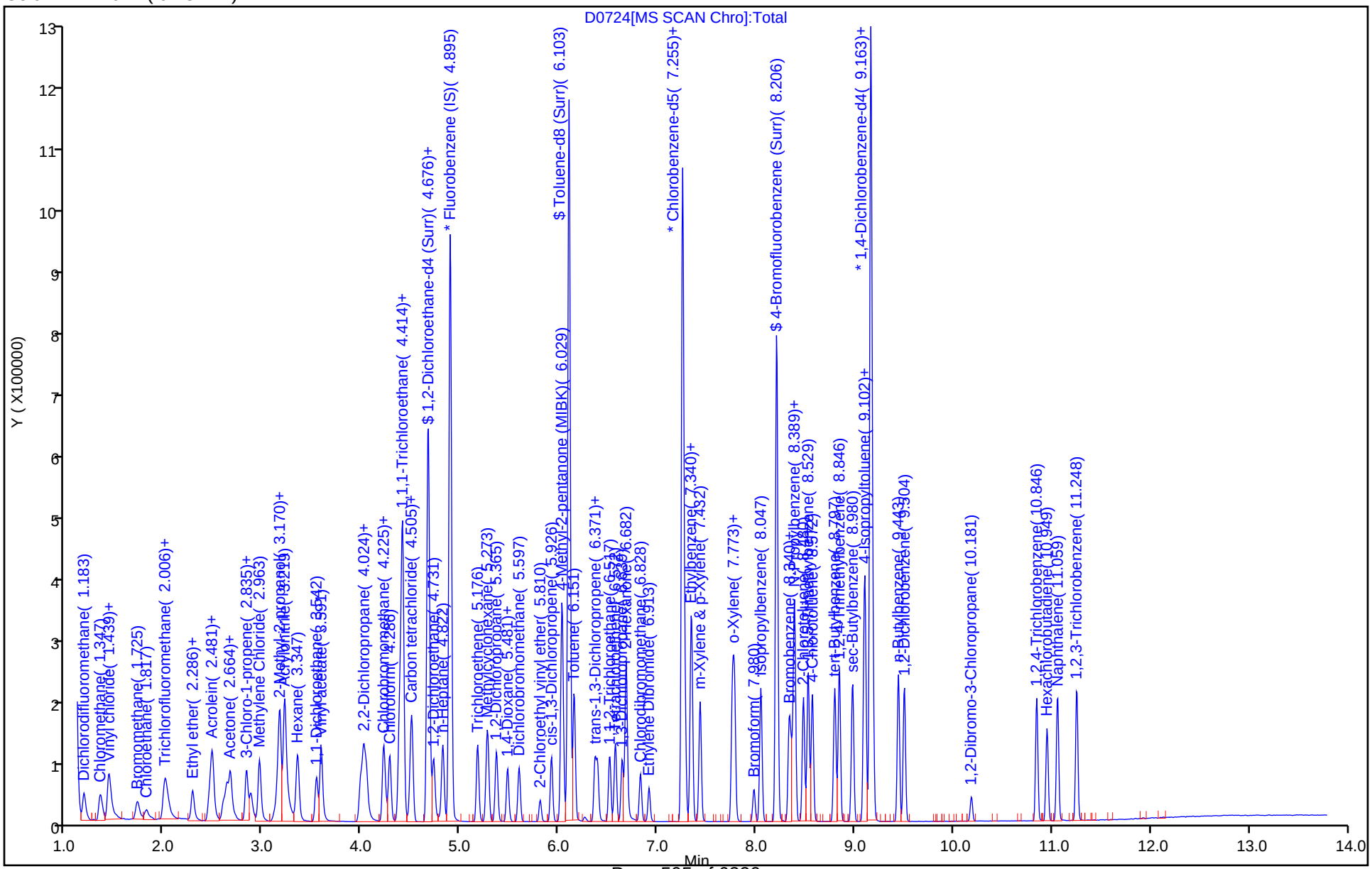
Report Date: 10-Jun-2022 12:36:26 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0724.D

Injection Date:	09-Jun-2022 16:06:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	IC 3			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Report Date: 10-Jun-2022 12:36:29 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0725.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 09-Jun-2022 16:28:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0105984-014
Operator ID: AK Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Jun-2022 12:36:28 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: kiwana Date: 10-Jun-2022 09:36:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.895	4.895	0.000	98	153197	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.255	7.255	0.000	88	279385	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.163	9.163	0.000	95	312199	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.414	4.414	0.000	92	263239	25.0	25.5	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.670	4.670	0.000	98	141907	25.0	25.4	
$ 5 Toluene-d8 (Surr)	98	6.102	6.103	-0.001	95	723843	25.0	25.9	
$ 6 4-Bromofluorobenzene (Surr)	174	8.212	8.206	0.006	93	217286	25.0	25.1	
10 Dichlorodifluoromethane	85	1.183	1.183	0.000	98	118333	10.0	11.6	
12 Chloromethane	50	1.353	1.347	0.006	98	129057	10.0	10.2	
13 Vinyl chloride	62	1.427	1.427	0.000	98	95050	10.0	11.0	
144 Butadiene	54	1.445	1.439	0.006	94	84915	10.0	11.5	
14 Bromomethane	94	1.719	1.725	-0.006	93	61279	10.0	10.6	
15 Chloroethane	64	1.811	1.817	-0.006	96	43018	10.0	10.8	
17 Trichlorofluoromethane	101	2.006	2.000	0.006	98	123693	10.0	11.2	
16 Dichlorofluoromethane	67	2.012	2.018	-0.006	97	124919	10.0	10.5	
18 Ethyl ether	59	2.286	2.286	0.000	98	71698	10.0	11.0	
20 Acrolein	56	2.451	2.451	0.000	100	77743	50.0	53.5	
21 112TCTFE	101	2.475	2.475	0.000	94	74470	10.0	10.5	
22 1,1-Dichloroethene	96	2.487	2.487	0.000	94	73437	10.0	11.1	
23 Acetone	43	2.603	2.603	0.000	99	190973	50.0	51.3	
25 Iodomethane	142	2.634	2.634	0.000	99	167865	10.0	11.4	
26 Carbon disulfide	76	2.670	2.670	0.000	100	261533	10.0	11.5	
28 3-Chloro-1-propene	41	2.835	2.829	0.006	90	169965	10.0	11.3	
27 Methyl acetate	43	2.877	2.878	-0.001	100	180653	20.0	20.8	
30 Methylene Chloride	84	2.963	2.963	0.000	95	94614	10.0	11.1	
31 2-Methyl-2-propanol	59	3.121	3.121	0.000	98	116571	100.0	111.8	
32 Methyl tert-butyl ether	73	3.158	3.158	0.000	98	215825	10.0	10.7	
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.000	93	87979	10.0	11.7	
33 Acrylonitrile	53	3.219	3.219	0.000	98	460338	100.0	107.2	
35 Hexane	57	3.347	3.347	0.000	95	135593	10.0	10.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.542	3.542	0.000	97	181667	10.0	11.4	
37 Vinyl acetate	43	3.591	3.591	0.000	96	451079	20.0	21.6	
44 2,2-Dichloropropane	77	3.993	3.993	0.000	92	115312	10.0	11.6	
45 cis-1,2-Dichloroethene	96	4.024	4.024	0.000	85	97510	10.0	11.3	
43 2-Butanone (MEK)	43	4.048	4.048	0.000	97	264265	50.0	49.6	
48 Chlorobromomethane	128	4.219	4.219	0.000	94	58529	10.0	11.3	
49 Tetrahydrofuran	42	4.237	4.237	0.000	93	67105	20.0	20.6	
50 Chloroform	83	4.286	4.286	0.000	96	169847	10.0	10.8	
51 1,1,1-Trichloroethane	97	4.383	4.383	0.000	97	137893	10.0	10.9	
52 Cyclohexane	56	4.389	4.389	0.000	95	177034	10.0	10.8	
55 Carbon tetrachloride	117	4.499	4.499	0.000	96	127335	10.0	10.9	
54 1,1-Dichloropropene	75	4.511	4.511	0.000	93	114253	10.0	10.7	
57 Benzene	78	4.676	4.676	0.000	96	319544	10.0	11.2	
53 Isobutyl alcohol	43	4.682	4.682	0.000	93	126953	250.0	260.0	
58 1,2-Dichloroethane	62	4.731	4.731	0.000	96	135325	10.0	10.4	
59 n-Heptane	43	4.822	4.822	0.000	96	148050	10.0	10.2	
62 Trichloroethene	95	5.176	5.176	0.000	96	88745	10.0	11.3	
64 Methylcyclohexane	83	5.273	5.273	0.000	98	134272	10.0	10.7	
65 1,2-Dichloropropane	63	5.365	5.365	0.000	93	91024	10.0	10.8	
66 1,4-Dioxane	88	5.475	5.475	0.000	35	11459	200.0	215.6	
67 Dibromomethane	93	5.481	5.481	0.000	97	61918	10.0	10.6	
68 Dichlorobromomethane	83	5.596	5.597	-0.001	97	115877	10.0	10.8	
69 2-Chloroethyl vinyl ether	63	5.810	5.810	0.000	93	34300	10.0	8.62	
72 cis-1,3-Dichloropropene	75	5.926	5.926	0.000	91	115893	10.0	10.7	
73 4-Methyl-2-pentanone (MIBK)	43	6.029	6.029	0.000	98	586137	50.0	56.9	
74 Toluene	92	6.157	6.151	0.006	97	174807	10.0	11.2	
77 trans-1,3-Dichloropropene	75	6.365	6.365	0.000	96	98428	10.0	10.7	
75 Ethyl methacrylate	69	6.389	6.389	0.000	95	82114	10.0	11.1	
79 1,1,2-Trichloroethane	83	6.517	6.517	0.000	93	57032	10.0	10.9	
81 Tetrachloroethene	166	6.572	6.572	0.000	96	85200	10.0	11.0	
82 1,3-Dichloropropane	76	6.639	6.639	0.000	96	99310	10.0	10.7	
80 2-Hexanone	43	6.682	6.682	0.000	99	422077	50.0	59.2	
83 Chlorodibromomethane	129	6.828	6.828	0.000	91	85617	10.0	10.7	
84 Ethylene Dibromide	107	6.913	6.913	0.000	99	73623	10.0	10.6	
87 Chlorobenzene	112	7.279	7.279	0.000	98	204539	10.0	11.0	
88 Ethylbenzene	91	7.340	7.340	0.000	99	315353	10.0	10.6	
89 1,1,1,2-Tetrachloroethane	131	7.346	7.346	0.000	96	94207	10.0	11.5	
90 m-Xylene & p-Xylene	106	7.431	7.432	-0.001	98	123672	10.0	10.7	
91 o-Xylene	106	7.761	7.761	0.000	97	129155	10.0	10.7	
92 Styrene	104	7.779	7.779	0.000	95	206849	10.0	11.2	
95 Bromoform	173	7.980	7.980	0.000	96	52391	10.0	10.5	
94 Isopropylbenzene	105	8.047	8.047	0.000	96	346962	10.0	9.83	
101 Bromobenzene	156	8.334	8.334	0.000	91	92673	10.0	10.7	
97 1,1,2,2-Tetrachloroethane	83	8.358	8.358	0.000	95	103615	10.0	10.4	
99 N-Propylbenzene	91	8.389	8.389	0.000	99	406279	10.0	10.1	
100 1,2,3-Trichloropropane	110	8.389	8.389	0.000	89	26382	10.0	10.5	
98 trans-1,4-Dichloro-2-butene	53	8.395	8.395	0.000	77	24342	10.0	9.81	
103 2-Chlorotoluene	126	8.480	8.480	0.000	97	88385	10.0	11.4	
102 1,3,5-Trimethylbenzene	105	8.529	8.529	0.000	94	309146	10.0	10.2	
105 4-Chlorotoluene	126	8.571	8.572	-0.001	97	86716	10.0	11.3	
106 tert-Butylbenzene	134	8.797	8.797	0.000	95	60050	10.0	9.77	
107 1,2,4-Trimethylbenzene	105	8.846	8.846	0.000	97	319123	10.0	10.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.980	8.980	0.000	95	397460	10.0	10.1	
110 4-Isopropyltoluene	119	9.096	9.096	0.000	98	347231	10.0	10.2	
111 1,3-Dichlorobenzene	146	9.108	9.108	0.000	98	177746	10.0	10.8	
113 1,4-Dichlorobenzene	146	9.181	9.181	0.000	95	182871	10.0	10.7	
115 n-Butylbenzene	91	9.443	9.443	0.000	99	332438	10.0	10.7	
116 1,2-Dichlorobenzene	146	9.504	9.504	0.000	99	195528	10.0	11.1	
117 1,2-Dibromo-3-Chloropropane	75	10.181	10.181	0.000	84	19975	10.0	10.5	
119 1,2,4-Trichlorobenzene	180	10.845	10.846	-0.001	95	152090	10.0	11.6	
120 Hexachlorobutadiene	225	10.949	10.949	0.000	98	71526	10.0	11.7	
121 Naphthalene	128	11.059	11.059	0.000	97	385867	10.0	11.1	
122 1,2,3-Trichlorobenzene	180	11.254	11.254	0.000	96	158672	10.0	11.6	
S 125 1,2-Dichloroethene, Total	1				0			23.0	
S 126 1,3-Dichloropropene, Total	1				0			21.4	
S 124 Xylenes, Total	1				0			21.4	
S 123 Total BTEX	1				0			54.3	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00224	Amount Added:	5.00	Units: uL	
GAS CORP mix_00513	Amount Added:	5.00	Units: uL	
D 8260 IS/SUR_00041	Amount Added:	1.00	Units: uL	Run Reagent

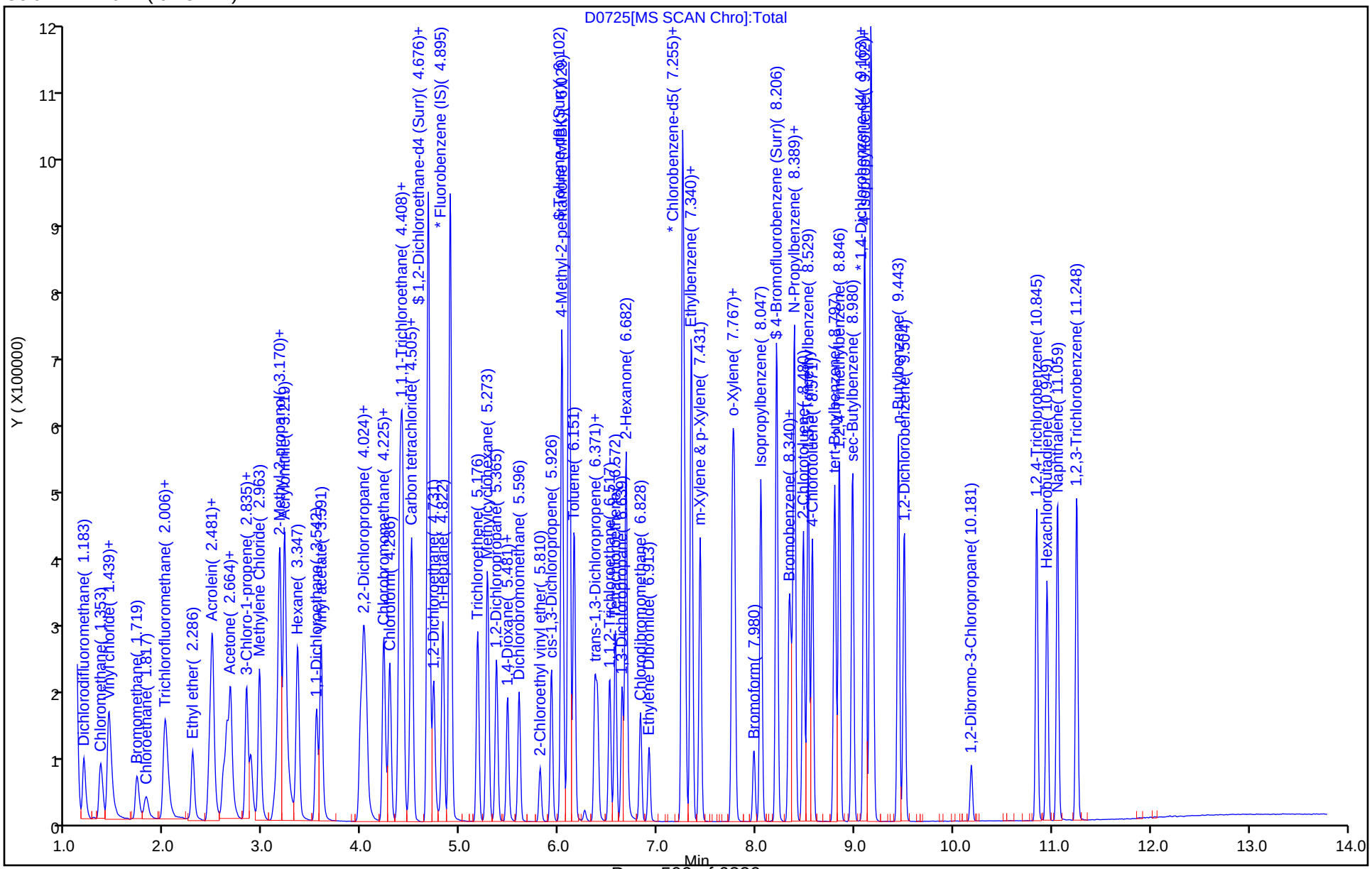
Report Date: 10-Jun-2022 12:36:29 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0725.D

Injection Date:	09-Jun-2022 16:28:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	IC 4			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0726.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 09-Jun-2022 16:50:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0105984-015
Operator ID: AK Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Jun-2022 12:36:31 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: kiwana Date: 10-Jun-2022 09:29:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.896	4.896	0.000	98	157193	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.255	7.255	0.000	89	301108	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.163	9.163	0.000	95	320818	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.414	4.414	0.000	94	258760	25.0	24.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.670	4.670	0.000	98	141414	25.0	24.7	
$ 5 Toluene-d8 (Surr)	98	6.103	6.103	0.000	94	762113	25.0	25.3	
$ 6 4-Bromofluorobenzene (Surr)	174	8.212	8.212	0.000	94	234617	25.0	25.2	
10 Dichlorodifluoromethane	85	1.177	1.177	0.000	99	282572	25.0	26.9	
12 Chloromethane	50	1.347	1.347	0.000	99	326165	25.0	25.0	
13 Vinyl chloride	62	1.421	1.421	0.000	98	228896	25.0	25.9	
144 Butadiene	54	1.445	1.445	0.000	94	207920	25.0	27.4	
14 Bromomethane	94	1.713	1.713	0.000	93	143243	25.0	24.1	
15 Chloroethane	64	1.805	1.805	0.000	97	105306	25.0	25.7	
17 Trichlorofluoromethane	101	2.000	2.000	0.000	97	301165	25.0	26.6	
16 Dichlorofluoromethane	67	2.006	2.006	0.000	98	300313	25.0	24.5	
18 Ethyl ether	59	2.286	2.286	0.000	98	172351	25.0	25.8	
20 Acrolein	56	2.451	2.451	0.000	99	192820	125.0	129.4	
21 112TCTFE	101	2.475	2.475	0.000	94	173264	25.0	23.2	
22 1,1-Dichloroethene	96	2.487	2.487	0.000	94	171481	25.0	24.9	
23 Acetone	43	2.597	2.597	0.000	99	455363	125.0	119.1	
25 Iodomethane	142	2.634	2.634	0.000	99	407034	25.0	27.0	
26 Carbon disulfide	76	2.664	2.664	0.000	100	622315	25.0	26.7	
28 3-Chloro-1-propene	41	2.829	2.829	0.000	90	396995	25.0	25.7	
27 Methyl acetate	43	2.872	2.872	0.000	100	424816	50.0	47.6	
30 Methylene Chloride	84	2.963	2.963	0.000	95	224484	25.0	25.9	
31 2-Methyl-2-propanol	59	3.115	3.115	0.000	98	281330	250.0	263.1	
32 Methyl tert-butyl ether	73	3.158	3.158	0.000	98	541180	25.0	26.2	
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.000	94	208340	25.0	27.1	
33 Acrylonitrile	53	3.213	3.213	0.000	98	1048837	250.0	238.1	
35 Hexane	57	3.347	3.347	0.000	95	329814	25.0	24.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.542	3.542	0.000	96	426202	25.0	26.0	
37 Vinyl acetate	43	3.585	3.585	0.000	96	1121576	50.0	52.4	
44 2,2-Dichloropropane	77	3.993	3.993	0.000	95	278653	25.0	27.3	
45 cis-1,2-Dichloroethene	96	4.018	4.018	0.000	84	239148	25.0	27.0	
43 2-Butanone (MEK)	43	4.042	4.042	0.000	97	651204	125.0	119.2	
48 Chlorobromomethane	128	4.219	4.219	0.000	94	142543	25.0	26.8	
49 Tetrahydrofuran	42	4.231	4.231	0.000	93	162337	50.0	48.5	
50 Chloroform	83	4.286	4.286	0.000	96	410419	25.0	25.5	
51 1,1,1-Trichloroethane	97	4.383	4.383	0.000	98	331657	25.0	25.3	
52 Cyclohexane	56	4.390	4.390	0.000	94	428617	25.0	25.0	
55 Carbon tetrachloride	117	4.499	4.499	0.000	98	305073	25.0	25.0	
54 1,1-Dichloropropene	75	4.505	4.505	0.000	92	273143	25.0	24.5	
57 Benzene	78	4.676	4.676	0.000	97	773230	25.0	26.4	
53 Isobutyl alcohol	43	4.676	4.676	0.000	56	312613	625.0	623.9	
58 1,2-Dichloroethane	62	4.731	4.731	0.000	97	331450	25.0	24.7	
59 n-Heptane	43	4.822	4.822	0.000	97	390244	25.0	25.5	
62 Trichloroethene	95	5.176	5.176	0.000	96	218101	25.0	27.1	
64 Methylcyclohexane	83	5.274	5.274	0.000	98	328521	25.0	24.7	
65 1,2-Dichloropropane	63	5.365	5.365	0.000	94	229840	25.0	26.5	
66 1,4-Dioxane	88	5.475	5.475	0.000	92	31532	500.0	527.6	
67 Dibromomethane	93	5.475	5.475	0.000	97	153006	25.0	25.6	
68 Dichlorobromomethane	83	5.597	5.597	0.000	97	291211	25.0	26.5	
69 2-Chloroethyl vinyl ether	63	5.810	5.810	0.000	92	102399	25.0	23.6	
72 cis-1,3-Dichloropropene	75	5.926	5.926	0.000	92	309118	25.0	27.8	
73 4-Methyl-2-pentanone (MIBK)	43	6.029	6.029	0.000	98	1404732	125.0	126.6	
74 Toluene	92	6.151	6.151	0.000	97	451291	25.0	26.7	
77 trans-1,3-Dichloropropene	75	6.365	6.365	0.000	96	271928	25.0	27.5	
75 Ethyl methacrylate	69	6.389	6.389	0.000	95	214892	25.0	27.0	
79 1,1,2-Trichloroethane	83	6.511	6.511	0.000	93	147404	25.0	26.1	
81 Tetrachloroethene	166	6.572	6.572	0.000	95	212991	25.0	25.1	
82 1,3-Dichloropropane	76	6.639	6.639	0.000	97	264043	25.0	26.3	
80 2-Hexanone	43	6.682	6.682	0.000	98	978380	125.0	127.3	
83 Chlorodibromomethane	129	6.828	6.828	0.000	90	229653	25.0	26.7	
84 Ethylene Dibromide	107	6.913	6.913	0.000	98	194964	25.0	26.0	
87 Chlorobenzene	112	7.279	7.279	0.000	97	528691	25.0	26.3	
88 Ethylbenzene	91	7.340	7.340	0.000	99	831219	25.0	25.5	
89 1,1,1,2-Tetrachloroethane	131	7.346	7.346	0.000	97	233311	25.0	26.5	
90 m-Xylene & p-Xylene	106	7.432	7.432	0.000	99	320376	25.0	25.3	
91 o-Xylene	106	7.761	7.761	0.000	97	336886	25.0	25.5	
92 Styrene	104	7.779	7.779	0.000	95	539505	25.0	27.2	
95 Bromoform	173	7.974	7.974	0.000	96	143322	25.0	26.6	
94 Isopropylbenzene	105	8.047	8.047	0.000	96	895127	25.0	23.6	
101 Bromobenzene	156	8.334	8.334	0.000	92	237809	25.0	26.6	
97 1,1,2,2-Tetrachloroethane	83	8.358	8.358	0.000	95	264904	25.0	25.8	
99 N-Propylbenzene	91	8.383	8.383	0.000	100	1031319	25.0	24.3	
100 1,2,3-Trichloropropane	110	8.389	8.389	0.000	86	66096	25.0	25.6	
98 trans-1,4-Dichloro-2-butene	53	8.395	8.395	0.000	77	67101	25.0	25.3	
103 2-Chlorotoluene	126	8.480	8.480	0.000	97	223014	25.0	28.1	
102 1,3,5-Trimethylbenzene	105	8.529	8.529	0.000	94	772759	25.0	24.0	
105 4-Chlorotoluene	126	8.572	8.572	0.000	97	221549	25.0	28.0	
106 tert-Butylbenzene	134	8.797	8.797	0.000	94	155921	25.0	23.5	
107 1,2,4-Trimethylbenzene	105	8.846	8.846	0.000	97	793676	25.0	24.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.980	8.980	0.000	95	1006676	25.0	23.9	
110 4-Isopropyltoluene	119	9.096	9.096	0.000	98	885050	25.0	24.4	
111 1,3-Dichlorobenzene	146	9.108	9.108	0.000	99	447942	25.0	26.5	
113 1,4-Dichlorobenzene	146	9.181	9.181	0.000	96	454862	25.0	25.8	
115 n-Butylbenzene	91	9.443	9.443	0.000	99	817933	25.0	25.0	
116 1,2-Dichlorobenzene	146	9.504	9.504	0.000	99	472353	25.0	26.2	
117 1,2-Dibromo-3-Chloropropane	75	10.181	10.181	0.000	84	51446	25.0	26.4	
119 1,2,4-Trichlorobenzene	180	10.846	10.846	0.000	95	384988	25.0	28.7	
120 Hexachlorobutadiene	225	10.949	10.949	0.000	98	182552	25.0	29.1	
121 Naphthalene	128	11.059	11.059	0.000	97	1023420	25.0	28.7	
122 1,2,3-Trichlorobenzene	180	11.254	11.254	0.000	96	395520	25.0	28.2	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00224	Amount Added: 12.50	Units: uL	
GAS CORP mix_00513	Amount Added: 12.50	Units: uL	
D 8260 IS/SUR_00041	Amount Added: 1.00	Units: uL	Run Reagent

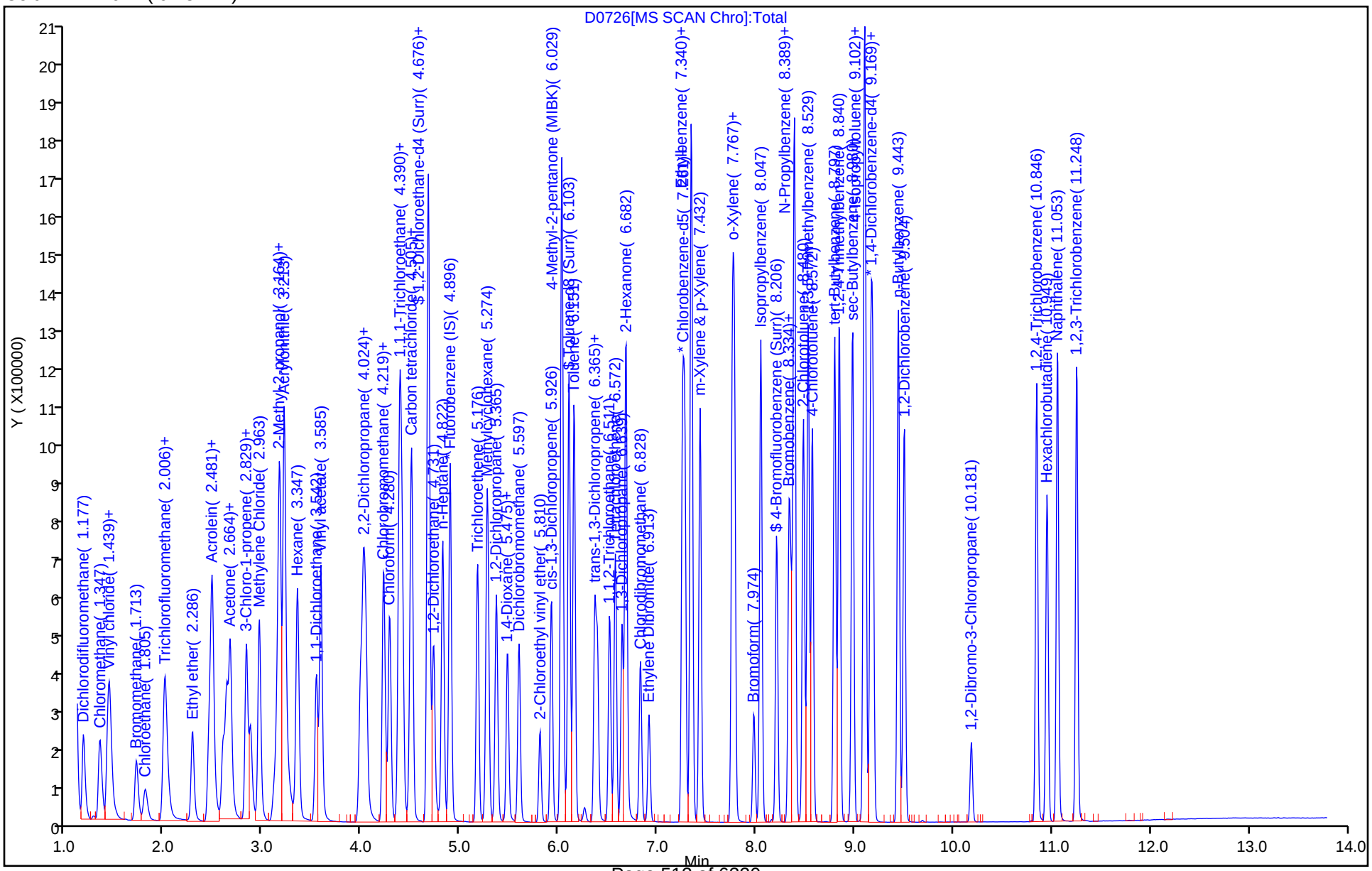
Report Date: 10-Jun-2022 12:36:31 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0726.D

Injection Date:	09-Jun-2022 16:50:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	ICIS 5			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Report Date: 10-Jun-2022 12:36:34 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0727.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 09-Jun-2022 17:12:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0105984-016
Operator ID: AK Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Jun-2022 12:36:33 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: kiwana Date: 10-Jun-2022 09:37:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.895	4.896	-0.001	98	159199	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.255	7.255	0.000	95	304640	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.163	9.163	0.000	94	301372	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.414	4.414	0.000	94	259654	25.0	24.2	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.670	4.670	0.000	99	140920	25.0	24.3	
$ 5 Toluene-d8 (Surr)	98	6.102	6.103	-0.001	94	765569	25.0	25.1	
$ 6 4-Bromofluorobenzene (Surr)	174	8.206	8.212	-0.006	93	226541	25.0	24.0	
10 Dichlorodifluoromethane	85	1.177	1.177	0.000	99	567917	50.0	53.3	
12 Chloromethane	50	1.347	1.347	0.000	99	637757	50.0	48.3	
13 Vinyl chloride	62	1.420	1.421	-0.001	98	467953	50.0	52.3	
144 Butadiene	54	1.445	1.445	0.000	93	422488	50.0	55.0	
14 Bromomethane	94	1.713	1.713	0.000	92	286466	50.0	47.7	
15 Chloroethane	64	1.804	1.805	-0.001	97	207663	50.0	50.0	
17 Trichlorofluoromethane	101	2.000	2.000	0.000	98	607236	50.0	52.9	
16 Dichlorofluoromethane	67	2.012	2.006	0.006	98	603703	50.0	48.6	
18 Ethyl ether	59	2.286	2.286	0.000	99	334286	50.0	49.4	
20 Acrolein	56	2.451	2.451	0.000	100	382499	250.0	253.4	
21 112TCTFE	101	2.475	2.475	0.000	94	403194	50.0	52.5	
22 1,1-Dichloroethene	96	2.487	2.487	0.000	95	359813	50.0	51.2	
23 Acetone	43	2.597	2.597	0.000	99	898347	250.0	232.0	
25 Iodomethane	142	2.634	2.634	0.000	99	825473	50.0	54.1	
26 Carbon disulfide	76	2.670	2.664	0.006	100	1312968	50.0	55.6	
28 3-Chloro-1-propene	41	2.829	2.829	0.000	90	798097	50.0	51.0	
27 Methyl acetate	43	2.871	2.872	-0.001	100	841124	100.0	93.1	
30 Methylene Chloride	84	2.963	2.963	0.000	96	451466	50.0	51.5	
31 2-Methyl-2-propanol	59	3.115	3.115	0.000	97	570936	500.0	527.1	
32 Methyl tert-butyl ether	73	3.158	3.158	0.000	99	1104876	50.0	52.9	
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.000	93	428814	50.0	55.1	
33 Acrylonitrile	53	3.213	3.213	0.000	98	2169437	500.0	486.3	
35 Hexane	57	3.347	3.347	0.000	95	690708	50.0	51.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.542	3.542	0.000	96	872966	50.0	52.5	
37 Vinyl acetate	43	3.585	3.585	0.000	96	2258600	100.0	104.2	
44 2,2-Dichloropropane	77	3.993	3.993	0.000	95	578407	50.0	55.9	
45 cis-1,2-Dichloroethene	96	4.017	4.018	-0.001	87	483132	50.0	53.8	
43 2-Butanone (MEK)	43	4.042	4.042	0.000	97	1261490	250.0	228.0	
48 Chlorobromomethane	128	4.219	4.219	0.000	95	283532	50.0	52.6	
49 Tetrahydrofuran	42	4.231	4.231	0.000	94	325351	100.0	96.0	
50 Chloroform	83	4.286	4.286	0.000	96	818211	50.0	50.2	
51 1,1,1-Trichloroethane	97	4.383	4.383	0.000	98	685251	50.0	51.3	
52 Cyclohexane	56	4.389	4.390	-0.001	94	905405	50.0	51.7	
55 Carbon tetrachloride	117	4.499	4.499	0.000	98	637748	50.0	51.2	
54 1,1-Dichloropropene	75	4.505	4.505	0.000	93	578357	50.0	51.0	
57 Benzene	78	4.676	4.676	0.000	97	1566731	50.0	52.8	
53 Isobutyl alcohol	43	4.676	4.676	0.000	66	629601	1250.0	1240.7	
58 1,2-Dichloroethane	62	4.731	4.731	0.000	96	656559	50.0	48.4	
59 n-Heptane	43	4.822	4.822	0.000	97	787652	50.0	50.5	
62 Trichloroethene	95	5.176	5.176	0.000	96	452196	50.0	55.4	
64 Methylcyclohexane	83	5.273	5.274	-0.001	98	697251	50.0	51.2	
65 1,2-Dichloropropane	63	5.365	5.365	0.000	94	465765	50.0	53.1	
66 1,4-Dioxane	88	5.475	5.475	-0.001	96	63624	1000.0	1037.5	
67 Dibromomethane	93	5.475	5.475	-0.001	96	302872	50.0	50.0	
68 Dichlorobromomethane	83	5.596	5.597	-0.001	98	593671	50.0	53.3	
69 2-Chloroethyl vinyl ether	63	5.810	5.810	0.000	92	220850	50.0	49.5	
72 cis-1,3-Dichloropropene	75	5.926	5.926	0.000	92	637659	50.0	56.7	
73 4-Methyl-2-pentanone (MIBK)	43	6.029	6.029	0.000	98	2605068	250.0	232.0	
74 Toluene	92	6.151	6.151	0.000	97	922187	50.0	54.0	
77 trans-1,3-Dichloropropene	75	6.365	6.365	0.000	96	548665	50.0	54.9	
75 Ethyl methacrylate	69	6.389	6.389	0.000	96	405608	50.0	50.3	
79 1,1,2-Trichloroethane	83	6.511	6.511	0.000	93	293463	50.0	51.4	
81 Tetrachloroethene	166	6.572	6.572	0.000	96	437798	50.0	50.7	
82 1,3-Dichloropropane	76	6.639	6.639	0.000	97	524396	50.0	51.7	
80 2-Hexanone	43	6.675	6.682	-0.007	98	1720042	250.0	221.3	
83 Chlorodibromomethane	129	6.828	6.828	0.000	90	462892	50.0	53.2	
84 Ethylene Dibromide	107	6.913	6.913	0.000	98	391230	50.0	51.7	
87 Chlorobenzene	112	7.279	7.279	0.000	98	1063288	50.0	52.2	
88 Ethylbenzene	91	7.340	7.340	0.000	99	1691840	50.0	51.0	
89 1,1,1,2-Tetrachloroethane	131	7.346	7.346	0.000	97	470796	50.0	52.9	
90 m-Xylene & p-Xylene	106	7.431	7.432	-0.001	99	651913	50.0	50.5	
91 o-Xylene	106	7.761	7.761	0.000	98	684660	50.0	50.9	
92 Styrene	104	7.779	7.779	0.000	95	1061223	50.0	52.8	
95 Bromoform	173	7.980	7.974	0.006	96	283082	50.0	52.0	
94 Isopropylbenzene	105	8.047	8.047	0.000	96	1839445	50.0	50.7	
101 Bromobenzene	156	8.334	8.334	0.000	91	467096	50.0	55.6	
97 1,1,2,2-Tetrachloroethane	83	8.358	8.358	0.000	95	504695	50.0	52.3	
99 N-Propylbenzene	91	8.389	8.383	0.006	99	2036309	50.0	50.6	
100 1,2,3-Trichloropropane	110	8.389	8.389	0.000	88	124754	50.0	51.5	
98 trans-1,4-Dichloro-2-butene	53	8.395	8.395	0.000	77	125421	50.0	49.7	
103 2-Chlorotoluene	126	8.480	8.480	0.000	97	443666	50.0	59.5	
102 1,3,5-Trimethylbenzene	105	8.529	8.529	0.000	94	1562433	50.0	50.9	
105 4-Chlorotoluene	126	8.571	8.572	-0.001	97	421057	50.0	56.6	
106 tert-Butylbenzene	134	8.797	8.797	0.000	94	323228	50.0	50.9	
107 1,2,4-Trimethylbenzene	105	8.846	8.846	0.000	98	1576222	50.0	51.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.980	8.980	0.000	95	2061663	50.0	51.2	
110 4-Isopropyltoluene	119	9.096	9.096	0.000	98	1777394	50.0	51.3	
111 1,3-Dichlorobenzene	146	9.108	9.108	0.000	99	843016	50.0	53.1	
113 1,4-Dichlorobenzene	146	9.181	9.181	0.000	96	856464	50.0	51.7	
115 n-Butylbenzene	91	9.443	9.443	0.000	99	1584586	50.0	51.1	
116 1,2-Dichlorobenzene	146	9.504	9.504	0.000	98	891524	50.0	52.6	
117 1,2-Dibromo-3-Chloropropane	75	10.181	10.181	0.000	85	98235	50.0	53.6	
119 1,2,4-Trichlorobenzene	180	10.845	10.846	-0.001	95	720866	50.0	57.1	
120 Hexachlorobutadiene	225	10.949	10.949	0.000	98	350649	50.0	59.5	
121 Naphthalene	128	11.053	11.059	-0.006	97	2029203	50.0	60.5	
122 1,2,3-Trichlorobenzene	180	11.254	11.254	0.000	96	745938	50.0	56.6	
S 125 1,2-Dichloroethene, Total	1				0			108.9	
S 126 1,3-Dichloropropene, Total	1				0			111.6	
S 124 Xylenes, Total	1				0			101.4	
S 123 Total BTEX	1				0			259.2	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00224	Amount Added: 25.00	Units: uL	
GAS CORP mix_00513	Amount Added: 25.00	Units: uL	
D 8260 IS/SUR_00041	Amount Added: 1.00	Units: uL	Run Reagent

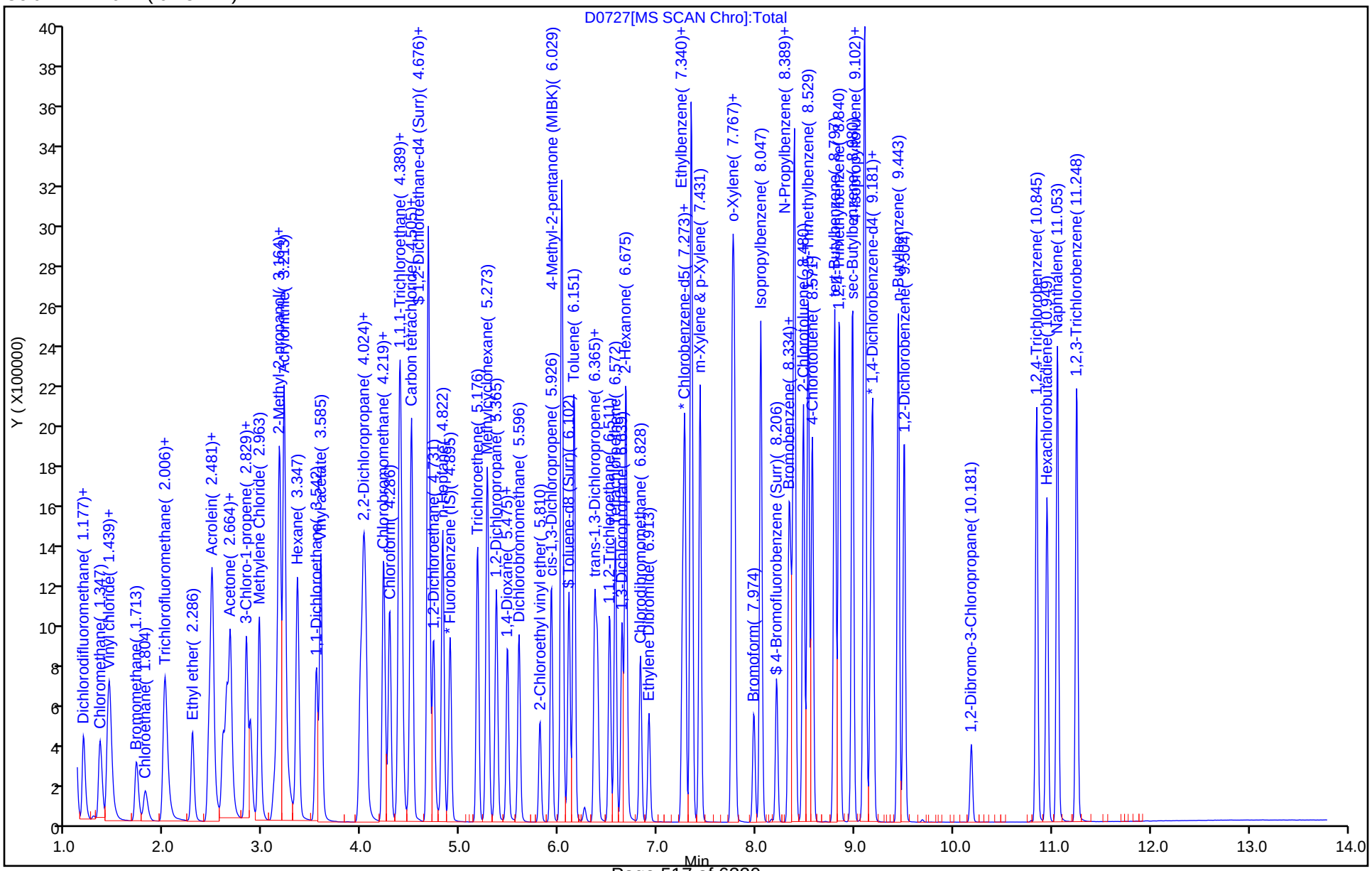
Report Date: 10-Jun-2022 12:36:34 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0727.D

Injection Date:	09-Jun-2022 17:12:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	IC 6			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0728.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 09-Jun-2022 17:34:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0105984-017
Operator ID: AK Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Jun-2022 12:36:36 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: kiwana Date: 10-Jun-2022 09:37:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.895	4.896	-0.001	98	170802	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.255	7.255	0.000	89	335542	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.163	9.163	0.000	95	317956	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.414	4.414	0.000	94	270209	25.0	23.5	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.670	4.670	0.000	98	148045	25.0	23.8	
$ 5 Toluene-d8 (Surr)	98	6.103	6.103	0.000	94	822629	25.0	24.5	
$ 6 4-Bromofluorobenzene (Surr)	174	8.212	8.212	0.000	94	245595	25.0	23.6	
10 Dichlorodifluoromethane	85	1.189	1.177	0.012	99	1166622	100.0	102.1	
12 Chloromethane	50	1.353	1.347	0.006	99	1246864	100.0	88.0	
13 Vinyl chloride	62	1.433	1.421	0.012	98	947727	100.0	98.7	
144 Butadiene	54	1.457	1.445	0.012	93	823875	100.0	99.9	
14 Bromomethane	94	1.725	1.713	0.012	92	589625	100.0	91.4	
15 Chloroethane	64	1.817	1.805	0.012	98	428168	100.0	96.0	
17 Trichlorofluoromethane	101	2.006	2.000	0.006	99	1233032	100.0	100.1	
16 Dichlorofluoromethane	67	2.018	2.006	0.012	98	1217439	100.0	91.4	
18 Ethyl ether	59	2.286	2.286	0.000	98	702940	100.0	96.9	
20 Acrolein	56	2.451	2.451	0.000	99	760826	500.0	469.8	
21 112TCTFE	101	2.475	2.475	0.000	94	820083	100.0	99.1	
22 1,1-Dichloroethene	96	2.487	2.487	0.000	94	744281	100.0	98.3	
23 Acetone	43	2.597	2.597	0.000	99	1781539	500.0	428.8	
25 Iodomethane	142	2.634	2.634	0.000	99	1680493	100.0	102.7	
26 Carbon disulfide	76	2.670	2.664	0.006	100	2680948	100.0	105.9	
28 3-Chloro-1-propene	41	2.835	2.829	0.006	90	1590609	100.0	94.7	
27 Methyl acetate	43	2.871	2.872	-0.001	100	1698967	200.0	175.3	
30 Methylene Chloride	84	2.963	2.963	0.000	96	908202	100.0	96.7	
31 2-Methyl-2-propanol	59	3.121	3.115	0.006	97	1127226	1000.0	970.1	
32 Methyl tert-butyl ether	73	3.158	3.158	0.000	99	2240740	100.0	100.0	
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.000	93	867962	100.0	103.9	
33 Acrylonitrile	53	3.219	3.213	0.006	98	4265864	1000.0	891.3	
35 Hexane	57	3.347	3.347	0.000	95	1435063	100.0	98.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.542	3.542	0.000	96	1791500	100.0	100.5	
37 Vinyl acetate	43	3.585	3.585	0.000	96	4721894	200.0	203.0	
44 2,2-Dichloropropane	77	3.993	3.993	0.000	94	1166908	100.0	105.2	
45 cis-1,2-Dichloroethene	96	4.024	4.018	0.006	86	974854	100.0	101.2	
43 2-Butanone (MEK)	43	4.048	4.042	0.006	97	2635642	500.0	444.0	
48 Chlorobromomethane	128	4.219	4.219	0.000	95	573992	100.0	99.2	
49 Tetrahydrofuran	42	4.237	4.231	0.006	93	657650	200.0	180.8	
50 Chloroform	83	4.286	4.286	0.000	95	1658844	100.0	94.9	
51 1,1,1-Trichloroethane	97	4.383	4.383	0.000	98	1403785	100.0	97.8	
52 Cyclohexane	56	4.389	4.390	-0.001	94	1850345	100.0	98.0	
55 Carbon tetrachloride	117	4.499	4.499	0.000	96	1318341	100.0	98.4	
54 1,1-Dichloropropene	75	4.511	4.505	0.006	93	1210120	100.0	99.3	
57 Benzene	78	4.676	4.676	0.000	97	3213856	100.0	100.9	
53 Isobutyl alcohol	43	4.676	4.676	0.000	92	1226901	2500.0	2253.6	
58 1,2-Dichloroethane	62	4.731	4.731	0.000	97	1355548	100.0	93.1	
59 n-Heptane	43	4.822	4.822	0.000	97	1664161	100.0	99.0	
62 Trichloroethene	95	5.176	5.176	0.000	96	959018	100.0	109.6	
64 Methylcyclohexane	83	5.273	5.274	-0.001	98	1454242	100.0	99.0	
65 1,2-Dichloropropane	63	5.365	5.365	0.000	95	992636	100.0	105.4	
66 1,4-Dioxane	88	5.475	5.475	0.000	97	131658	2000.0	1936.2	
67 Dibromomethane	93	5.481	5.475	0.006	97	635106	100.0	97.7	
68 Dichlorobromomethane	83	5.597	5.597	0.000	98	1267067	100.0	106.0	
69 2-Chloroethyl vinyl ether	63	5.810	5.810	0.000	92	501257	100.0	103.8	
72 cis-1,3-Dichloropropene	75	5.926	5.926	0.000	92	1405839	100.0	116.5	
73 4-Methyl-2-pentanone (MIBK)	43	6.029	6.029	0.000	98	5223834	500.0	422.4	
74 Toluene	92	6.157	6.151	0.006	97	1977705	100.0	105.1	
77 trans-1,3-Dichloropropene	75	6.365	6.365	0.000	96	1205042	100.0	109.5	
75 Ethyl methacrylate	69	6.389	6.389	0.000	96	880729	100.0	99.2	
79 1,1,2-Trichloroethane	83	6.517	6.511	0.006	93	635659	100.0	101.1	
81 Tetrachloroethene	166	6.572	6.572	0.000	95	938525	100.0	98.4	
82 1,3-Dichloropropane	76	6.639	6.639	0.000	97	1141402	100.0	102.2	
80 2-Hexanone	43	6.682	6.682	0.000	97	3404794	500.0	397.6	
83 Chlorodibromomethane	129	6.828	6.828	0.000	90	1016075	100.0	106.0	
84 Ethylene Dibromide	107	6.913	6.913	0.000	98	859806	100.0	103.1	
87 Chlorobenzene	112	7.279	7.279	0.000	95	2300277	100.0	102.6	
88 Ethylbenzene	91	7.340	7.340	0.000	99	3598714	100.0	98.2	
89 1,1,1,2-Tetrachloroethane	131	7.346	7.346	0.000	97	973484	100.0	99.3	
90 m-Xylene & p-Xylene	106	7.432	7.432	0.000	99	1408190	100.0	98.7	
91 o-Xylene	106	7.761	7.761	0.000	96	1456519	100.0	98.1	
92 Styrene	104	7.779	7.779	0.000	93	2296697	100.0	103.8	
95 Bromoform	173	7.980	7.974	0.006	97	632729	100.0	105.5	
94 Isopropylbenzene	105	8.047	8.047	0.000	96	3913414	100.0	101.5	
101 Bromobenzene	156	8.334	8.334	0.000	92	1002263	100.0	113.1	
97 1,1,2,2-Tetrachloroethane	83	8.358	8.358	0.000	94	1044489	100.0	102.6	
99 N-Propylbenzene	91	8.389	8.383	0.006	99	4283302	100.0	100.3	
100 1,2,3-Trichloropropane	110	8.389	8.389	0.000	85	254718	100.0	99.7	
98 trans-1,4-Dichloro-2-butene	53	8.395	8.395	0.000	78	270127	100.0	100.7	
103 2-Chlorotoluene	126	8.480	8.480	0.000	97	934399	100.0	118.7	
102 1,3,5-Trimethylbenzene	105	8.529	8.529	0.000	94	3271086	100.0	100.4	
105 4-Chlorotoluene	126	8.572	8.572	0.000	97	900403	100.0	114.8	
106 tert-Butylbenzene	134	8.797	8.797	0.000	94	684102	100.0	101.4	
107 1,2,4-Trimethylbenzene	105	8.846	8.846	0.000	98	3255103	100.0	99.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.980	8.980	0.000	95	4290351	100.0	100.4	
110 4-Isopropyltoluene	119	9.096	9.096	0.000	97	3661783	100.0	99.6	
111 1,3-Dichlorobenzene	146	9.108	9.108	0.000	98	1752045	100.0	104.6	
113 1,4-Dichlorobenzene	146	9.181	9.181	0.000	96	1804417	100.0	103.3	
115 n-Butylbenzene	91	9.443	9.443	0.000	98	3242526	100.0	98.7	
116 1,2-Dichlorobenzene	146	9.504	9.504	0.000	99	1836026	100.0	102.6	
117 1,2-Dibromo-3-Chloropropane	75	10.181	10.181	0.000	87	200009	100.0	103.4	
119 1,2,4-Trichlorobenzene	180	10.845	10.846	-0.001	95	1433254	100.0	107.6	
120 Hexachlorobutadiene	225	10.949	10.949	0.000	98	738117	100.0	118.7	
121 Naphthalene	128	11.059	11.059	0.000	97	3981091	100.0	112.5	
122 1,2,3-Trichlorobenzene	180	11.254	11.254	0.000	96	1458150	100.0	104.9	
S 125 1,2-Dichloroethene, Total	1				0			205.1	
S 126 1,3-Dichloropropene, Total	1				0			225.9	
S 124 Xylenes, Total	1				0			196.8	
S 123 Total BTEX	1				0			501.0	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00224	Amount Added: 50.00	Units: uL	
GAS CORP mix_00513	Amount Added: 50.00	Units: uL	
D 8260 IS/SUR_00041	Amount Added: 1.00	Units: uL	Run Reagent

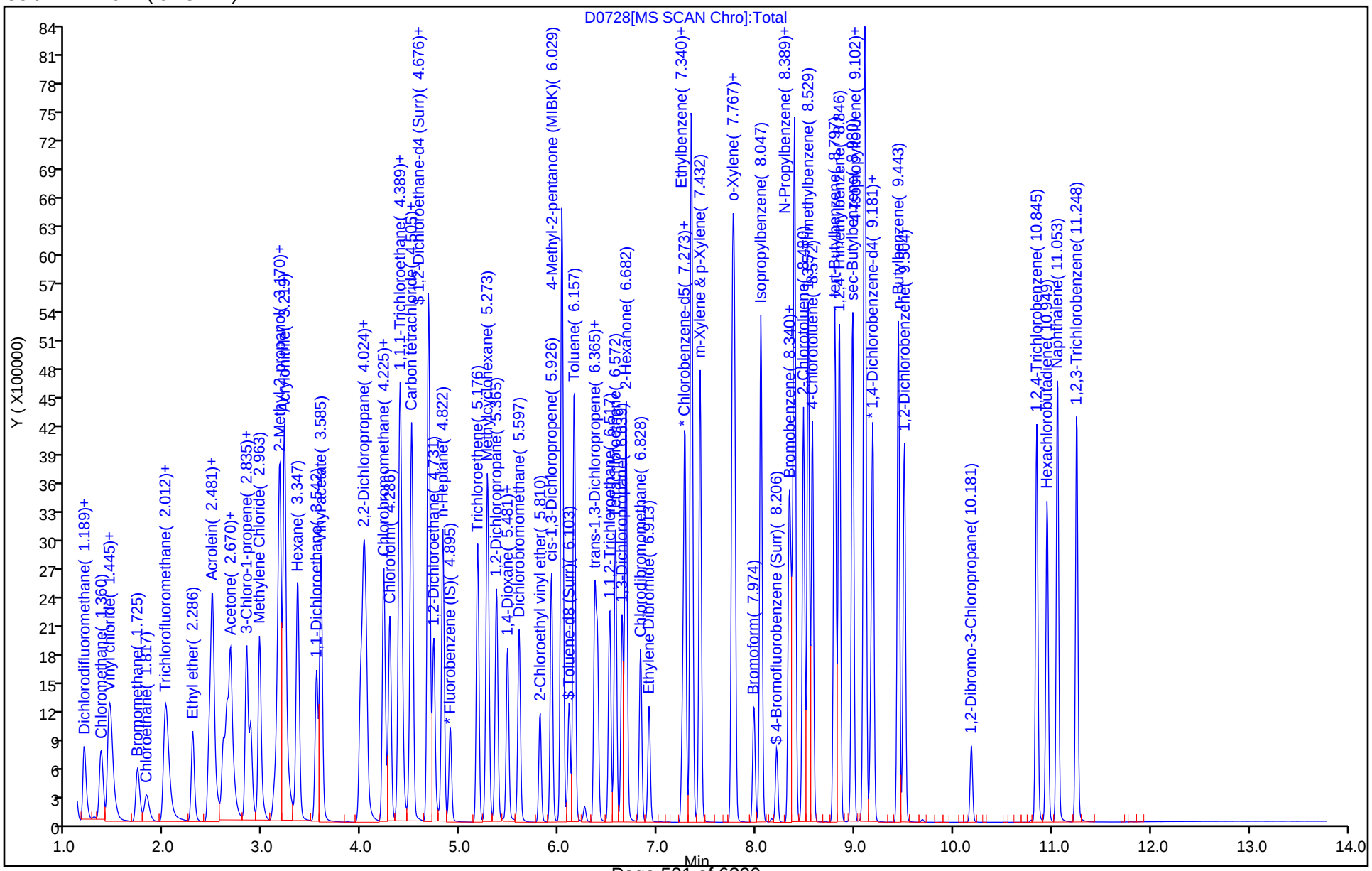
Report Date: 10-Jun-2022 12:36:36 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0728.D

Injection Date:	09-Jun-2022 17:34:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	IC 7			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

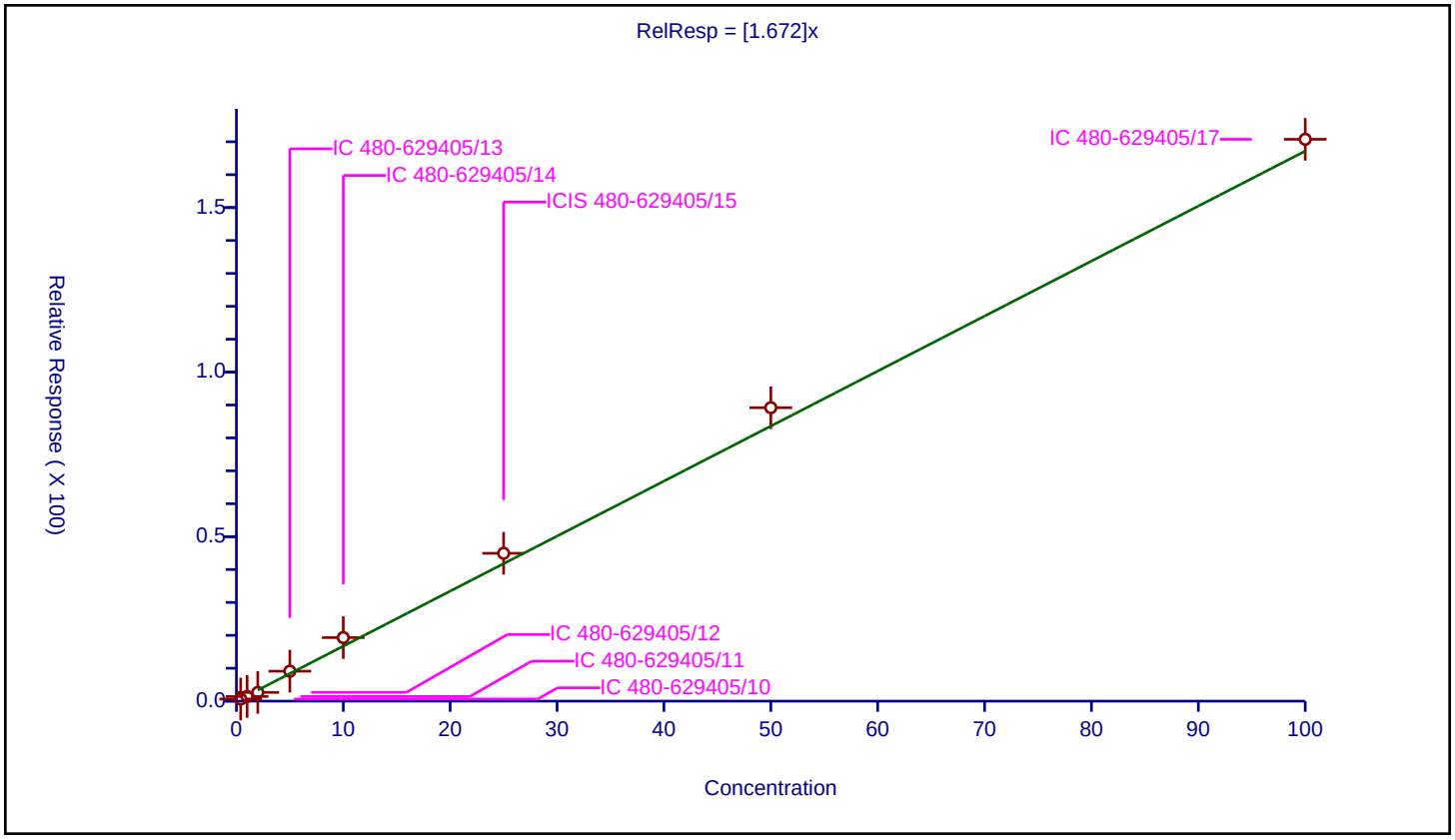
Curve Coefficients

Intercept:	0
Slope:	1.672

Error Coefficients

Standard Error:	504000
Relative Standard Error:	12.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.634669	25.0	150157.0	1.586673	Y
2	IC 480-629405/11	1.0	1.418944	25.0	149125.0	1.418944	Y
3	IC 480-629405/12	2.0	2.654916	25.0	155730.0	1.327458	Y
4	IC 480-629405/13	5.0	9.106361	25.0	160613.0	1.821272	Y
5	IC 480-629405/14	10.0	19.310594	25.0	153197.0	1.931059	Y
6	ICIS 480-629405/15	25.0	44.940296	25.0	157193.0	1.797612	Y
7	IC 480-629405/16	50.0	89.183506	25.0	159199.0	1.78367	Y
8	IC 480-629405/17	100.0	170.75649	25.0	170802.0	1.707565	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

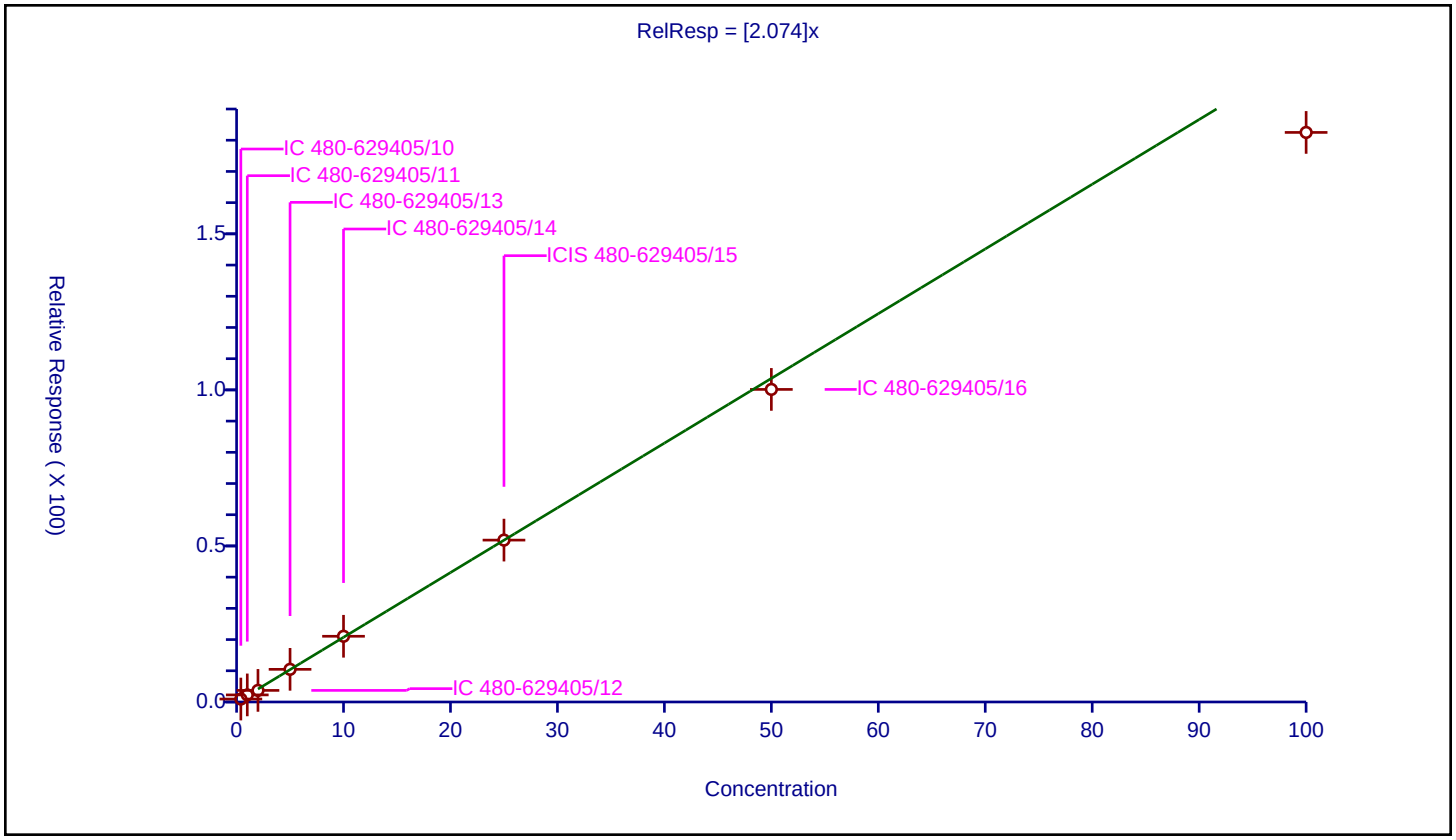
Curve Coefficients

Intercept:	0
Slope:	2.074

Error Coefficients

Standard Error:	546000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.94551	25.0	150157.0	2.363776	Y
2	IC 480-629405/11	1.0	2.266387	25.0	149125.0	2.266387	Y
3	IC 480-629405/12	2.0	3.715565	25.0	155730.0	1.857783	Y
4	IC 480-629405/13	5.0	10.461638	25.0	160613.0	2.092328	Y
5	IC 480-629405/14	10.0	21.060628	25.0	153197.0	2.106063	Y
6	ICIS 480-629405/15	25.0	51.873334	25.0	157193.0	2.074933	Y
7	IC 480-629405/16	50.0	100.150912	25.0	159199.0	2.003018	Y
8	IC 480-629405/17	100.0	182.501376	25.0	170802.0	1.825014	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

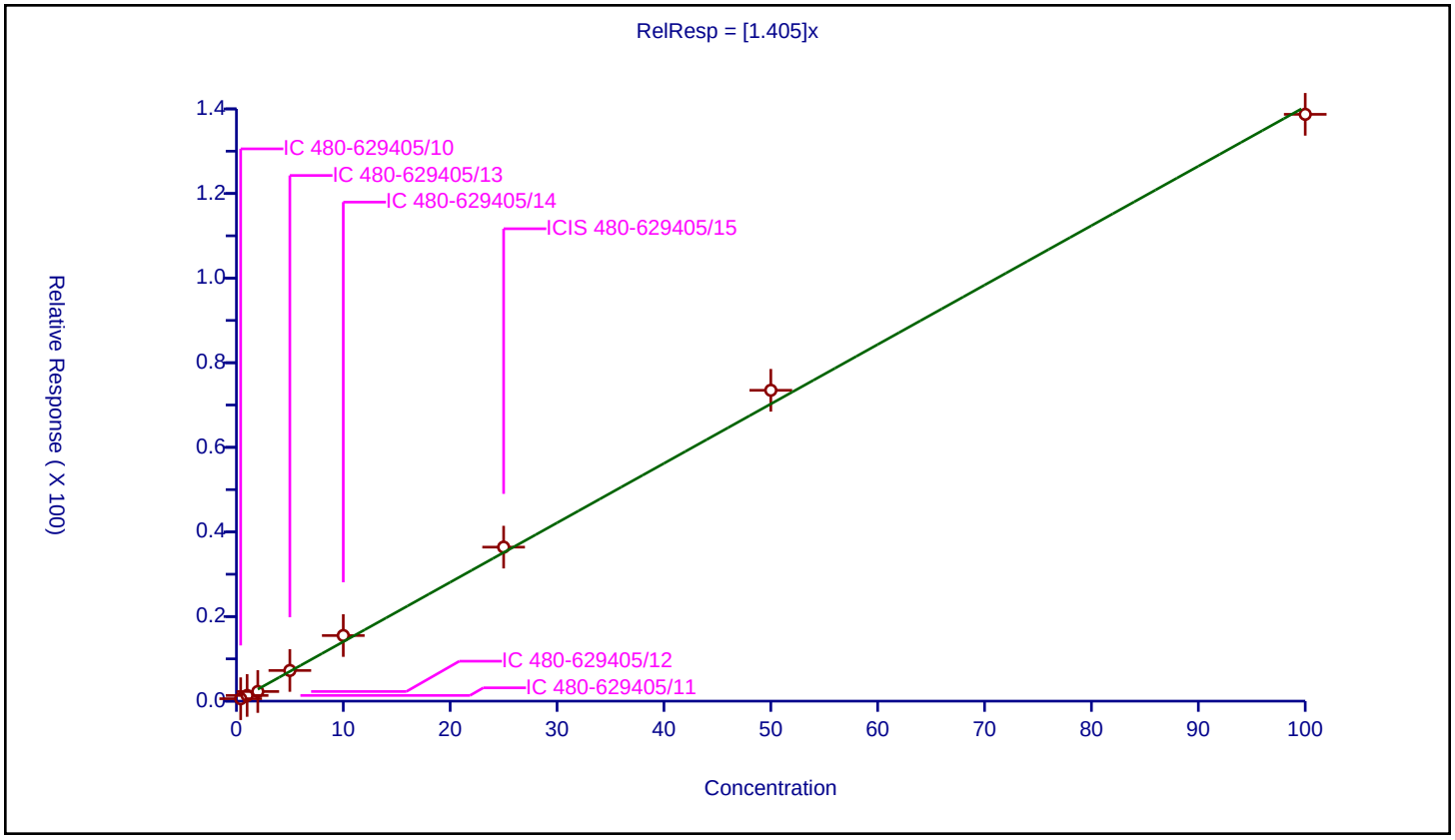
Curve Coefficients

Intercept:	0
Slope:	1.405

Error Coefficients

Standard Error:	411000
Relative Standard Error:	8.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.576896	25.0	150157.0	1.44224	Y
2	IC 480-629405/11	1.0	1.346521	25.0	149125.0	1.346521	Y
3	IC 480-629405/12	2.0	2.276215	25.0	155730.0	1.138108	Y
4	IC 480-629405/13	5.0	7.248324	25.0	160613.0	1.449665	Y
5	IC 480-629405/14	10.0	15.511074	25.0	153197.0	1.551107	Y
6	ICIS 480-629405/15	25.0	36.403657	25.0	157193.0	1.456146	Y
7	IC 480-629405/16	50.0	73.485543	25.0	159199.0	1.469711	Y
8	IC 480-629405/17	100.0	138.717199	25.0	170802.0	1.387172	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

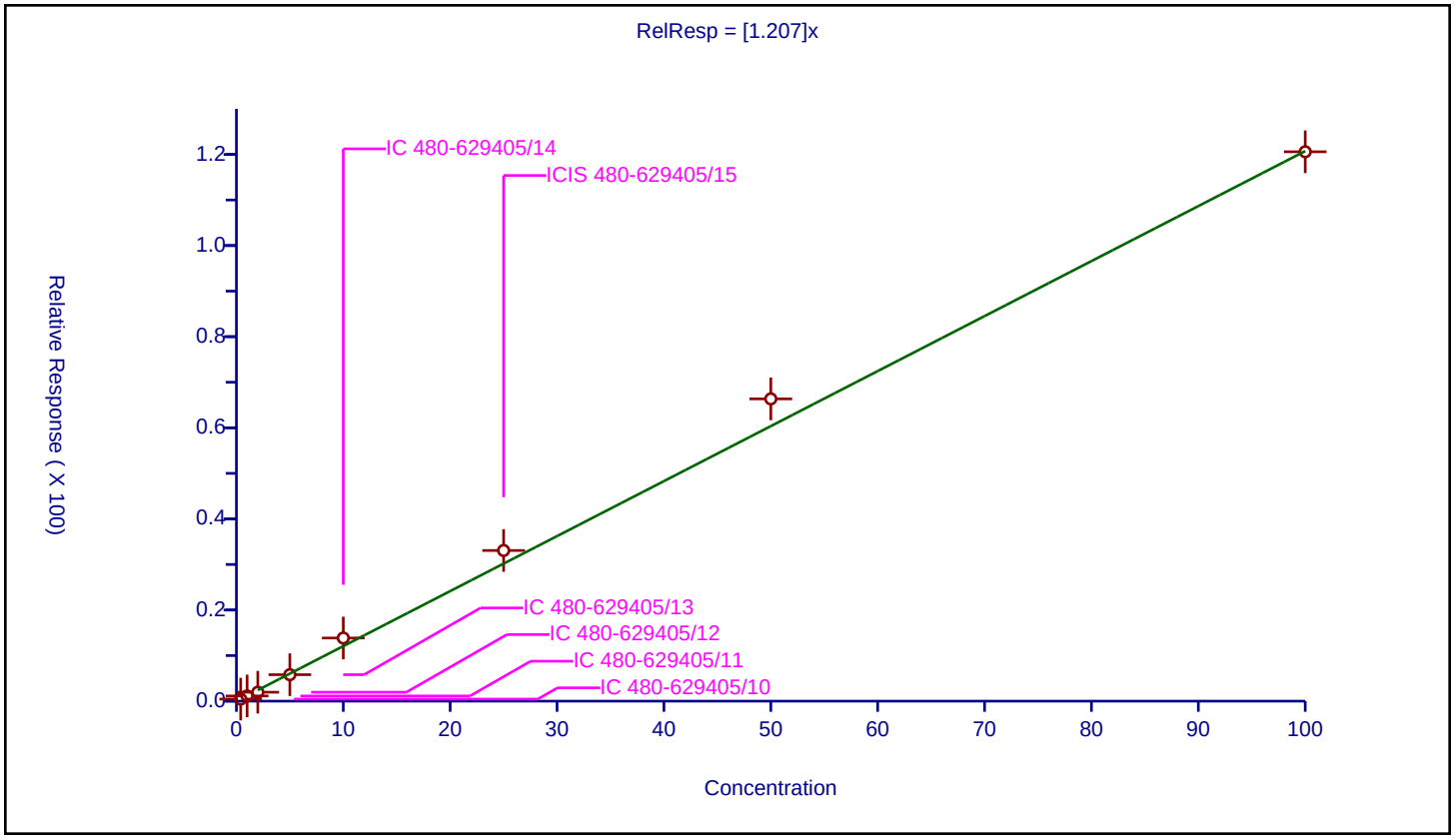
Curve Coefficients

Intercept:	0
Slope:	1.207

Error Coefficients

Standard Error:	360000
Relative Standard Error:	11.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.454857	25.0	150157.0	1.137143	Y
2	IC 480-629405/11	1.0	1.137972	25.0	149125.0	1.137972	Y
3	IC 480-629405/12	2.0	1.961247	25.0	155730.0	0.980624	Y
4	IC 480-629405/13	5.0	5.809461	25.0	160613.0	1.161892	Y
5	IC 480-629405/14	10.0	13.857158	25.0	153197.0	1.385716	Y
6	ICIS 480-629405/15	25.0	33.06763	25.0	157193.0	1.322705	Y
7	IC 480-629405/16	50.0	66.345894	25.0	159199.0	1.326918	Y
8	IC 480-629405/17	100.0	120.589191	25.0	170802.0	1.205892	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

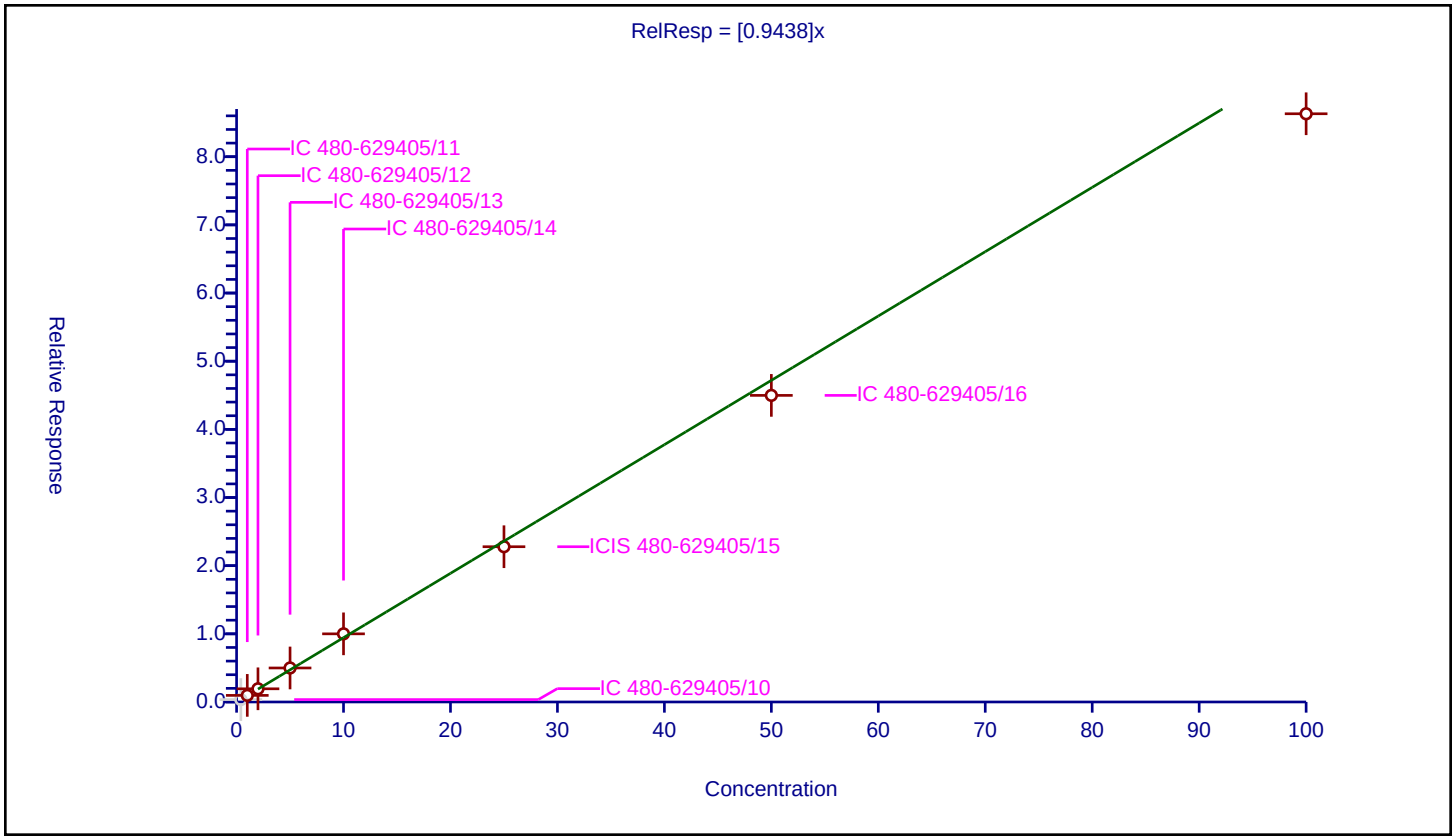
Curve Coefficients

Intercept:	0
Slope:	0.9438

Error Coefficients

Standard Error:	275000
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.355461	25.0	150157.0	0.888653	N
2	IC 480-629405/11	1.0	0.966471	25.0	149125.0	0.966471	Y
3	IC 480-629405/12	2.0	1.936525	25.0	155730.0	0.968262	Y
4	IC 480-629405/13	5.0	4.9901	25.0	160613.0	0.99802	Y
5	IC 480-629405/14	10.0	10.000033	25.0	153197.0	1.000003	Y
6	ICIS 480-629405/15	25.0	22.78139	25.0	157193.0	0.911256	Y
7	IC 480-629405/16	50.0	44.985521	25.0	159199.0	0.89971	Y
8	IC 480-629405/17	100.0	86.302414	25.0	170802.0	0.863024	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

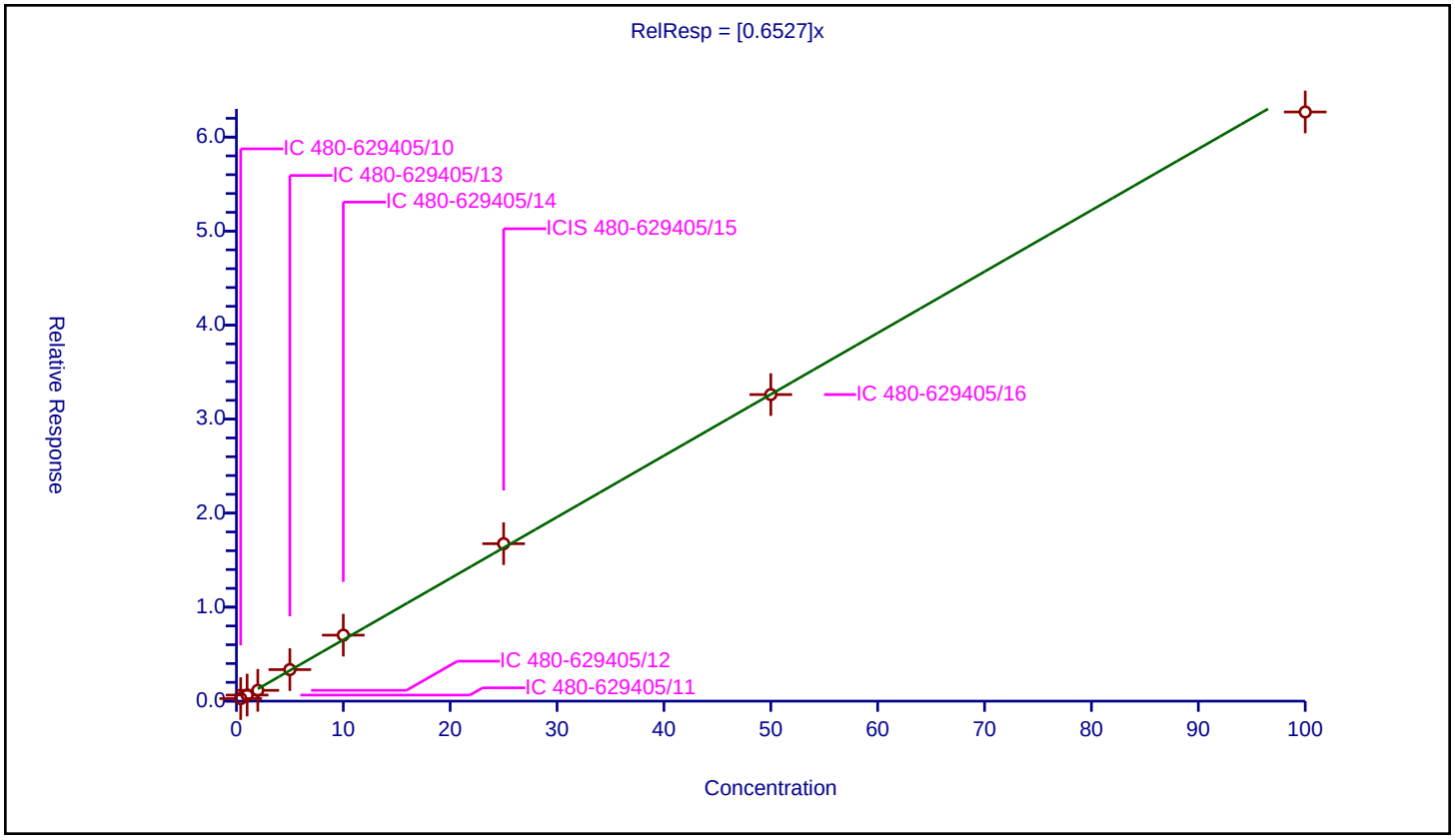
Curve Coefficients

Intercept:	0
Slope:	0.6527

Error Coefficients

Standard Error:	185000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.271882	25.0	150157.0	0.679705	Y
2	IC 480-629405/11	1.0	0.646773	25.0	149125.0	0.646773	Y
3	IC 480-629405/12	2.0	1.147499	25.0	155730.0	0.573749	Y
4	IC 480-629405/13	5.0	3.352624	25.0	160613.0	0.670525	Y
5	IC 480-629405/14	10.0	7.020046	25.0	153197.0	0.702005	Y
6	ICIS 480-629405/15	25.0	16.747883	25.0	157193.0	0.669915	Y
7	IC 480-629405/16	50.0	32.610601	25.0	159199.0	0.652212	Y
8	IC 480-629405/17	100.0	62.670226	25.0	170802.0	0.626702	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

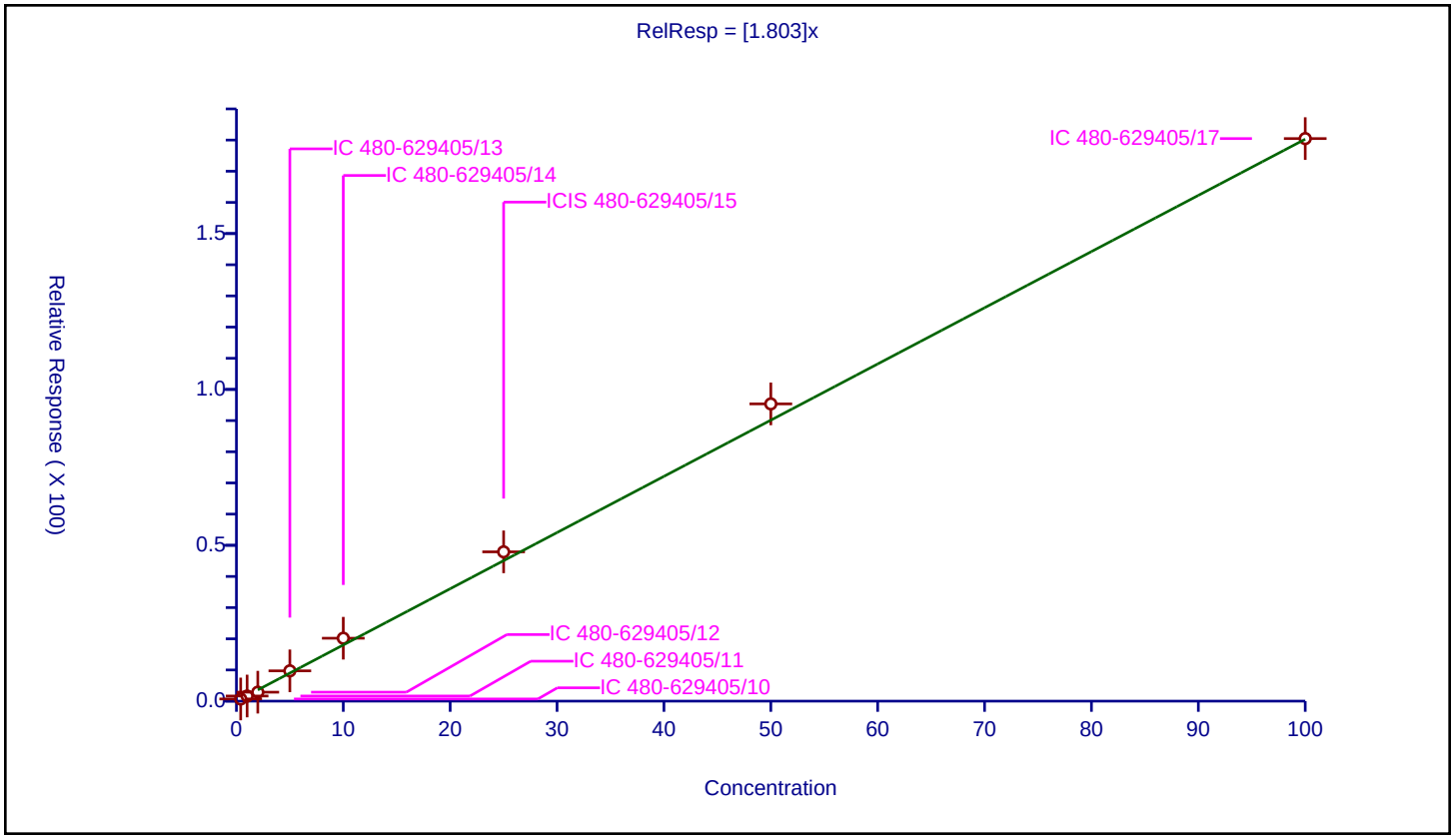
Curve Coefficients

Intercept:	0
Slope:	1.803

Error Coefficients

Standard Error:	534000
Relative Standard Error:	10.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.698269	25.0	150157.0	1.745673	Y
2	IC 480-629405/11	1.0	1.648617	25.0	149125.0	1.648617	Y
3	IC 480-629405/12	2.0	2.876934	25.0	155730.0	1.438467	Y
4	IC 480-629405/13	5.0	9.71808	25.0	160613.0	1.943616	Y
5	IC 480-629405/14	10.0	20.185284	25.0	153197.0	2.018528	Y
6	ICIS 480-629405/15	25.0	47.89733	25.0	157193.0	1.915893	Y
7	IC 480-629405/16	50.0	95.358011	25.0	159199.0	1.90716	Y
8	IC 480-629405/17	100.0	180.476809	25.0	170802.0	1.804768	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

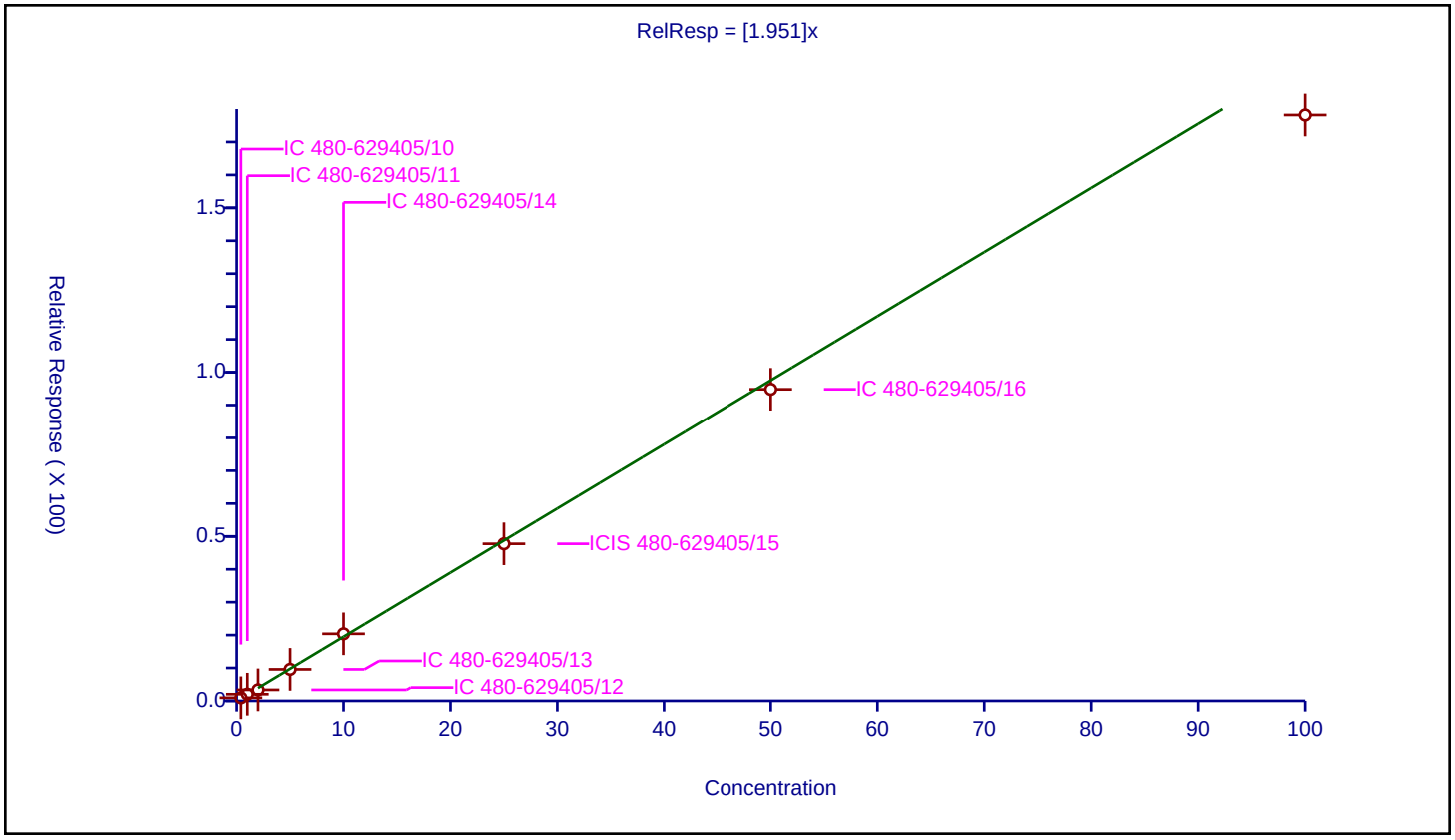
Curve Coefficients

Intercept:	0
Slope:	1.951

Error Coefficients

Standard Error:	529000
Relative Standard Error:	10.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.943013	25.0	150157.0	2.357532	Y
2	IC 480-629405/11	1.0	2.029841	25.0	149125.0	2.029841	Y
3	IC 480-629405/12	2.0	3.351153	25.0	155730.0	1.675576	Y
4	IC 480-629405/13	5.0	9.575968	25.0	160613.0	1.915194	Y
5	IC 480-629405/14	10.0	20.385353	25.0	153197.0	2.038535	Y
6	ICIS 480-629405/15	25.0	47.761828	25.0	157193.0	1.910473	Y
7	IC 480-629405/16	50.0	94.803202	25.0	159199.0	1.896064	Y
8	IC 480-629405/17	100.0	178.194488	25.0	170802.0	1.781945	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

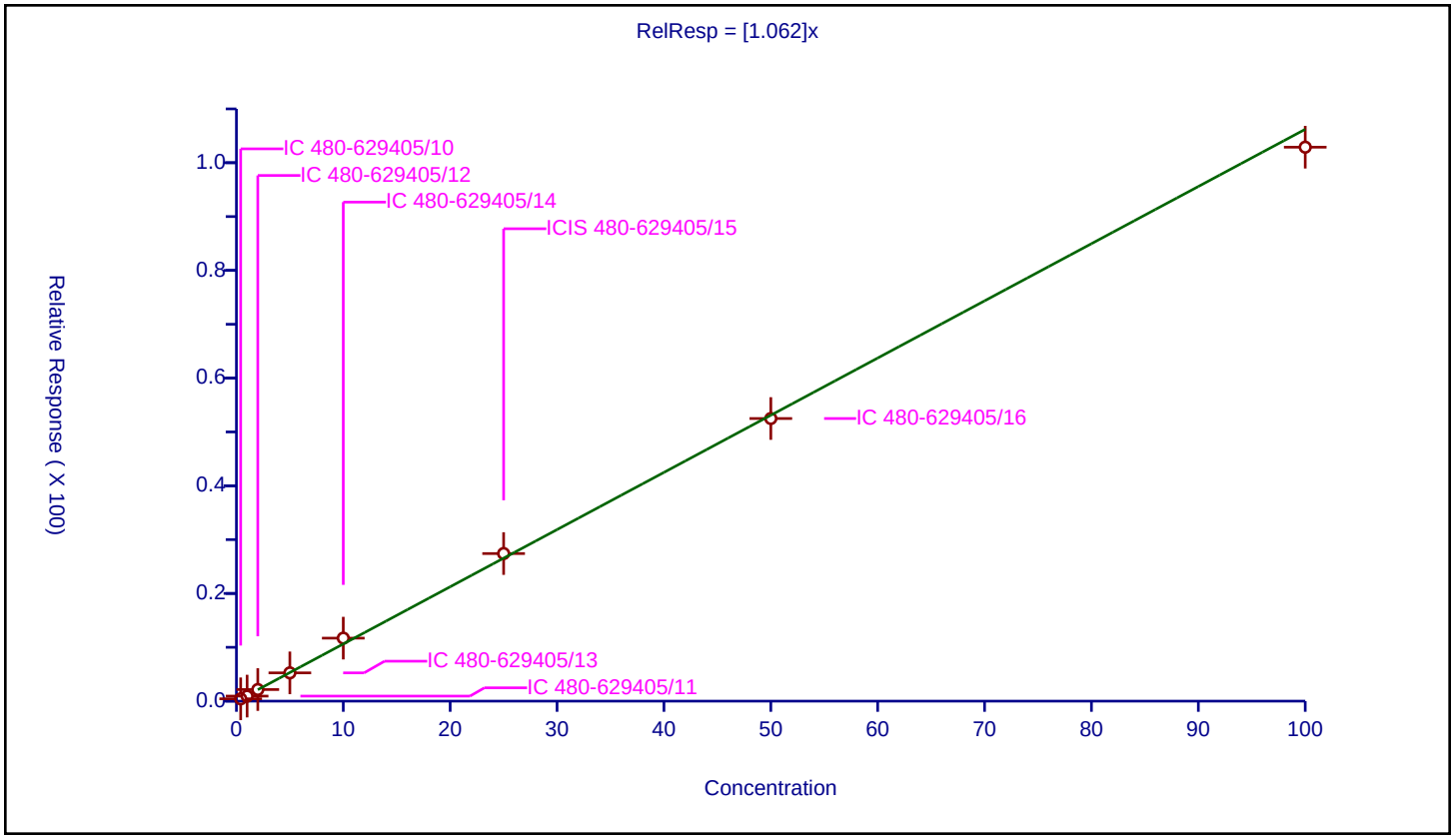
Curve Coefficients

Intercept:	0
Slope:	1.062

Error Coefficients

Standard Error:	303000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.434379	25.0	150157.0	1.085947	Y
2	IC 480-629405/11	1.0	0.938977	25.0	149125.0	0.938977	Y
3	IC 480-629405/12	2.0	2.152443	25.0	155730.0	1.076222	Y
4	IC 480-629405/13	5.0	5.251132	25.0	160613.0	1.050226	Y
5	IC 480-629405/14	10.0	11.700294	25.0	153197.0	1.170029	Y
6	ICIS 480-629405/15	25.0	27.410731	25.0	157193.0	1.096429	Y
7	IC 480-629405/16	50.0	52.494991	25.0	159199.0	1.0499	Y
8	IC 480-629405/17	100.0	102.888139	25.0	170802.0	1.028881	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

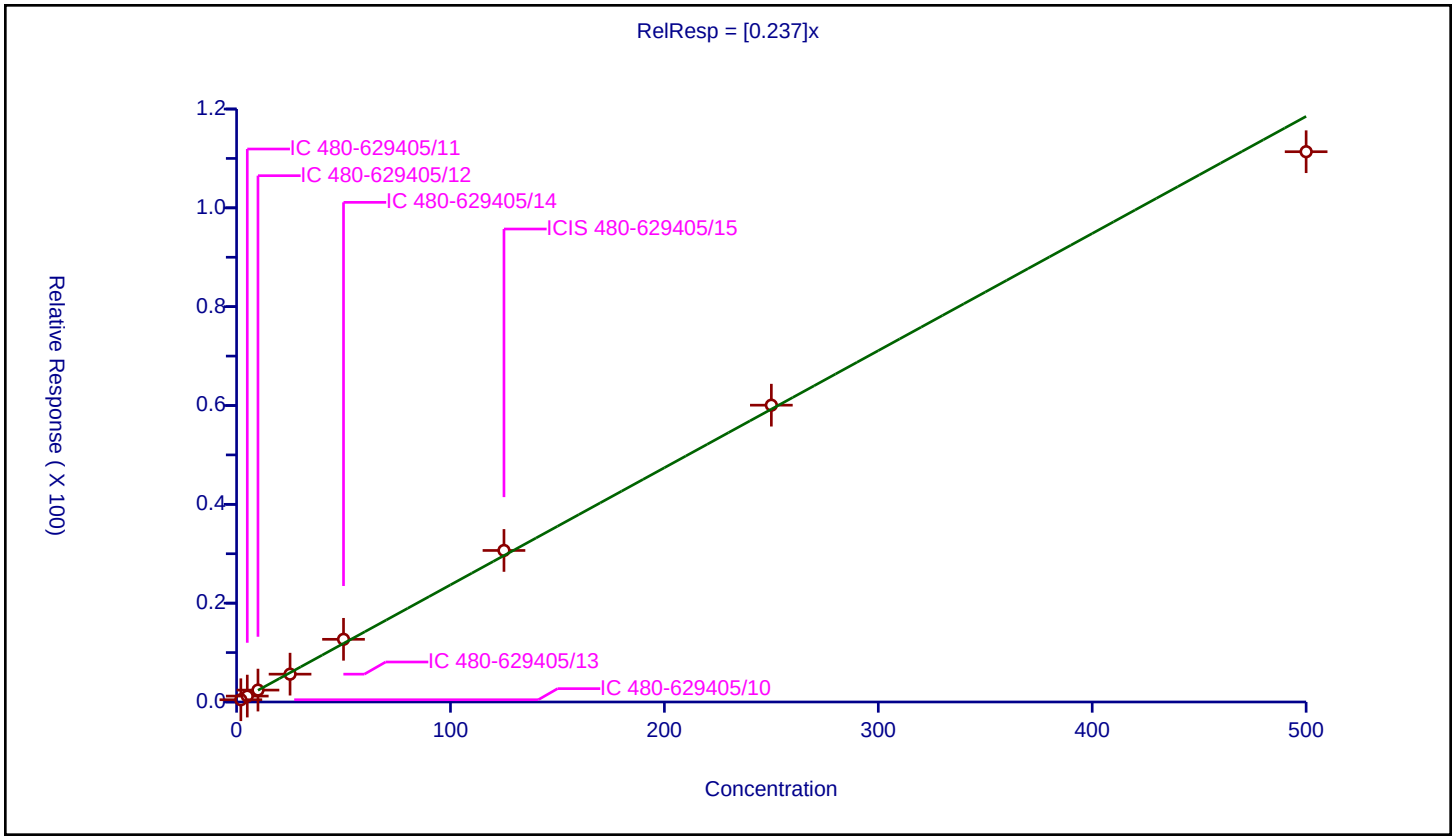
Curve Coefficients

Intercept:	0
Slope:	0.237

Error Coefficients

Standard Error:	332000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	2.0	0.457688	25.0	150157.0	0.228844	Y
2	IC 480-629405/11	5.0	1.194635	25.0	149125.0	0.238927	Y
3	IC 480-629405/12	10.0	2.411385	25.0	155730.0	0.241139	Y
4	IC 480-629405/13	25.0	5.631082	25.0	160613.0	0.225243	Y
5	IC 480-629405/14	50.0	12.686769	25.0	153197.0	0.253735	Y
6	ICIS 480-629405/15	125.0	30.666124	25.0	157193.0	0.245329	Y
7	IC 480-629405/16	250.0	60.066175	25.0	159199.0	0.240265	Y
8	IC 480-629405/17	500.0	111.360815	25.0	170802.0	0.222722	Y



Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

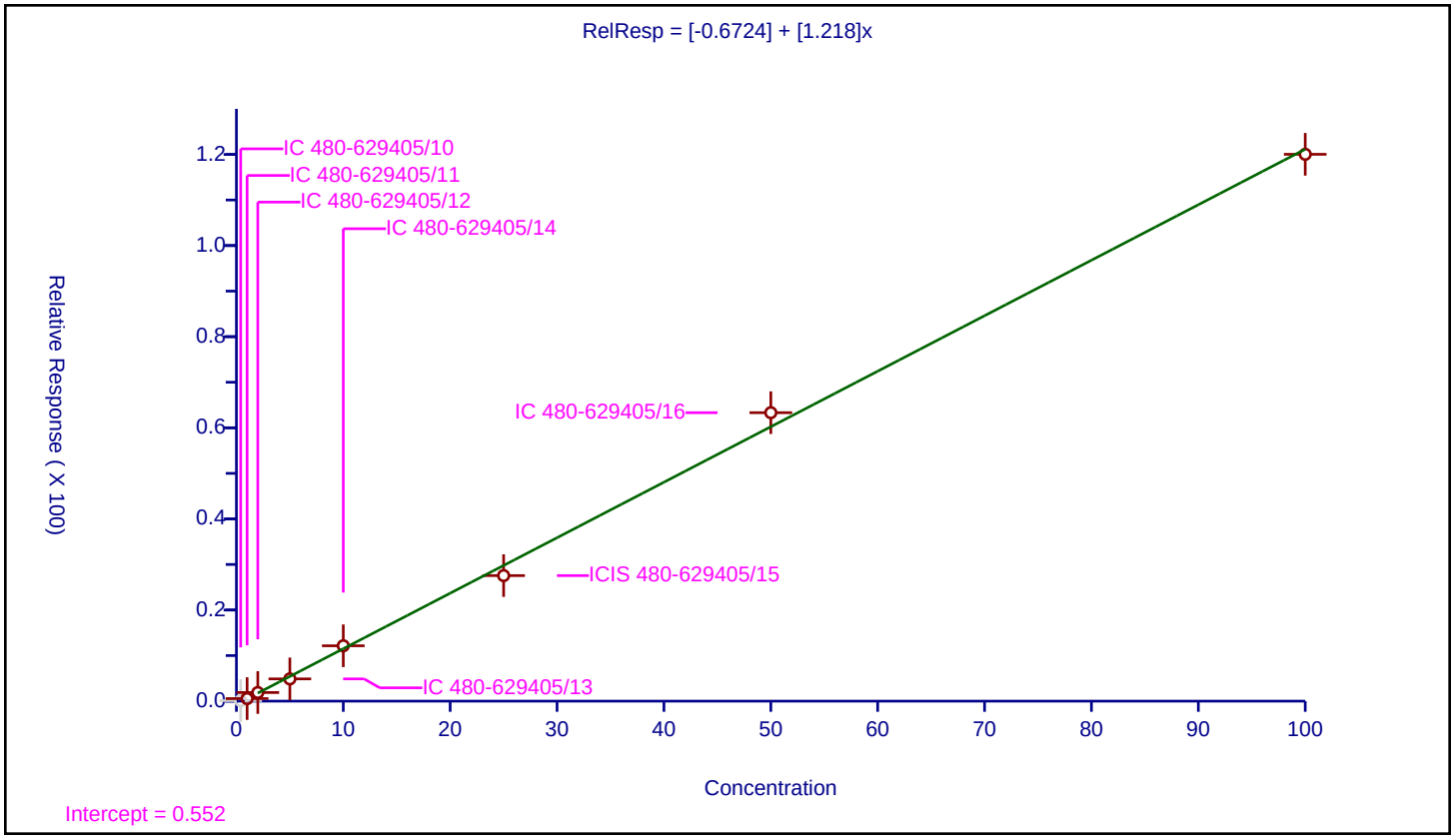
Curve Coefficients

Intercept:	-0.6724
Slope:	1.218

Error Coefficients

Standard Error:	418000
Relative Standard Error:	6.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.115546	25.0	150157.0	0.288864	N
2	IC 480-629405/11	1.0	0.563118	25.0	149125.0	0.563118	Y
3	IC 480-629405/12	2.0	1.891575	25.0	155730.0	0.945788	Y
4	IC 480-629405/13	5.0	4.883011	25.0	160613.0	0.976602	Y
5	IC 480-629405/14	10.0	12.152653	25.0	153197.0	1.215265	Y
6	ICIS 480-629405/15	25.0	27.555934	25.0	157193.0	1.102237	Y
7	IC 480-629405/16	50.0	63.316038	25.0	159199.0	1.266321	Y
8	IC 480-629405/17	100.0	120.034162	25.0	170802.0	1.200342	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

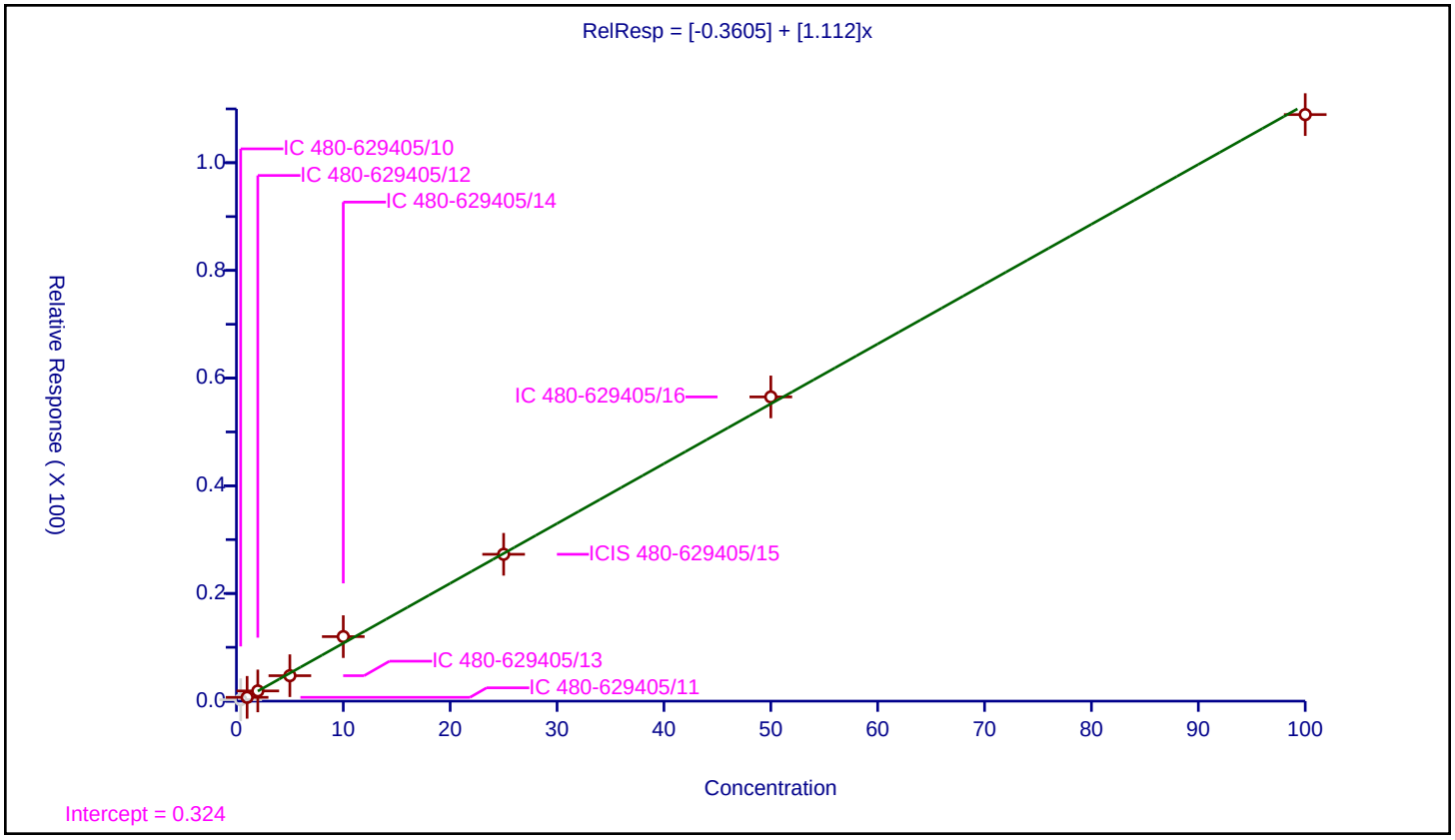
Curve Coefficients

Intercept:	-0.3605
Slope:	1.112

Error Coefficients

Standard Error:	379000
Relative Standard Error:	6.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.268219	25.0	150157.0	0.670548	N
2	IC 480-629405/11	1.0	0.70461	25.0	149125.0	0.70461	Y
3	IC 480-629405/12	2.0	1.896873	25.0	155730.0	0.948436	Y
4	IC 480-629405/13	5.0	4.728602	25.0	160613.0	0.94572	Y
5	IC 480-629405/14	10.0	11.984079	25.0	153197.0	1.198408	Y
6	ICIS 480-629405/15	25.0	27.272366	25.0	157193.0	1.090895	Y
7	IC 480-629405/16	50.0	56.503653	25.0	159199.0	1.130073	Y
8	IC 480-629405/17	100.0	108.939152	25.0	170802.0	1.089392	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

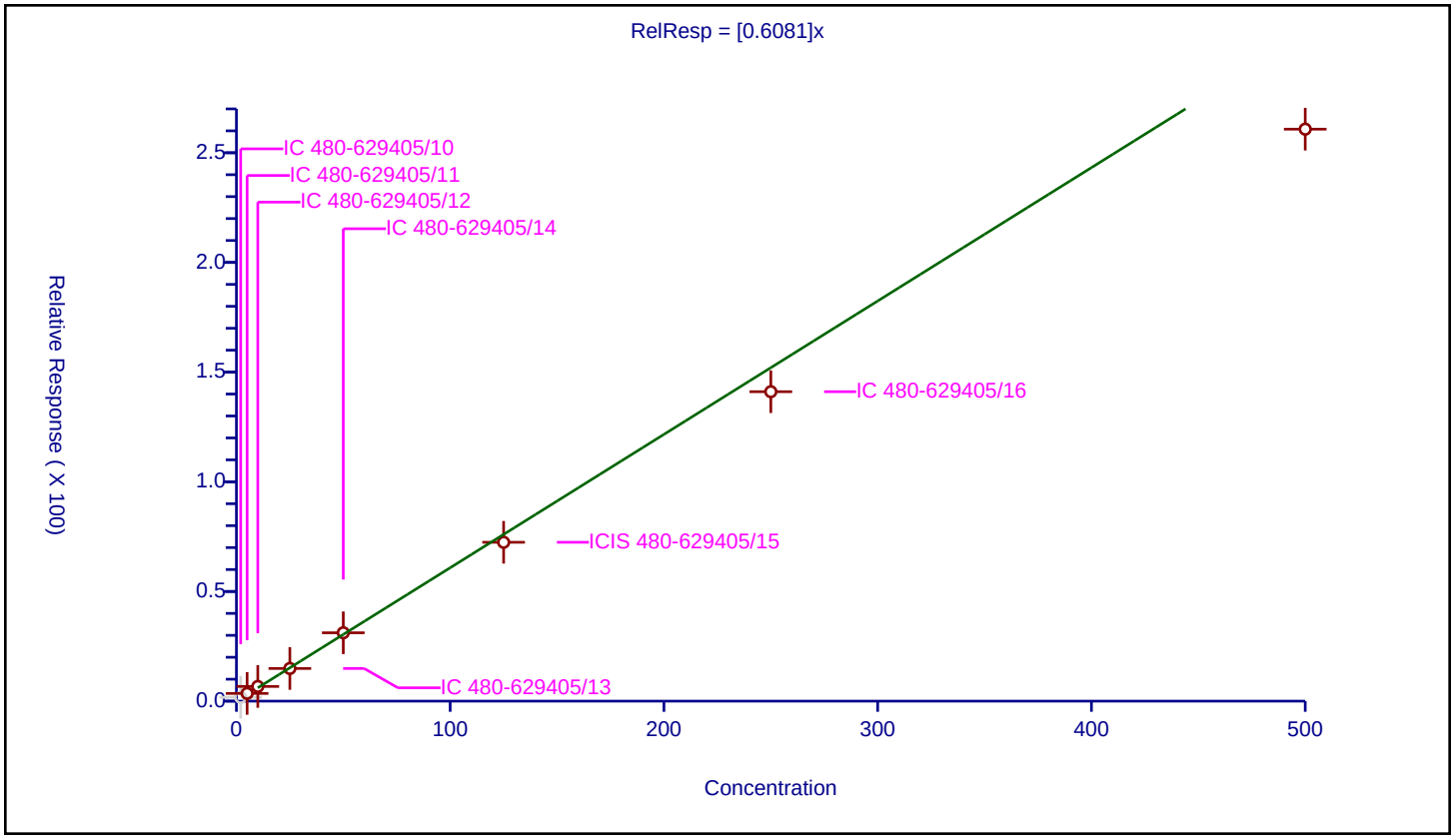
Curve Coefficients

Intercept:	0
Slope:	0.6081

Error Coefficients

Standard Error:	840000
Relative Standard Error:	10.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	2.0	1.735683	25.0	150157.0	0.867842	N
2	IC 480-629405/11	5.0	3.510813	25.0	149125.0	0.702163	Y
3	IC 480-629405/12	10.0	6.700539	25.0	155730.0	0.670054	Y
4	IC 480-629405/13	25.0	14.896833	25.0	160613.0	0.595873	Y
5	IC 480-629405/14	50.0	31.164612	25.0	153197.0	0.623292	Y
6	ICIS 480-629405/15	125.0	72.421005	25.0	157193.0	0.579368	Y
7	IC 480-629405/16	250.0	141.072965	25.0	159199.0	0.564292	Y
8	IC 480-629405/17	500.0	260.760852	25.0	170802.0	0.521522	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

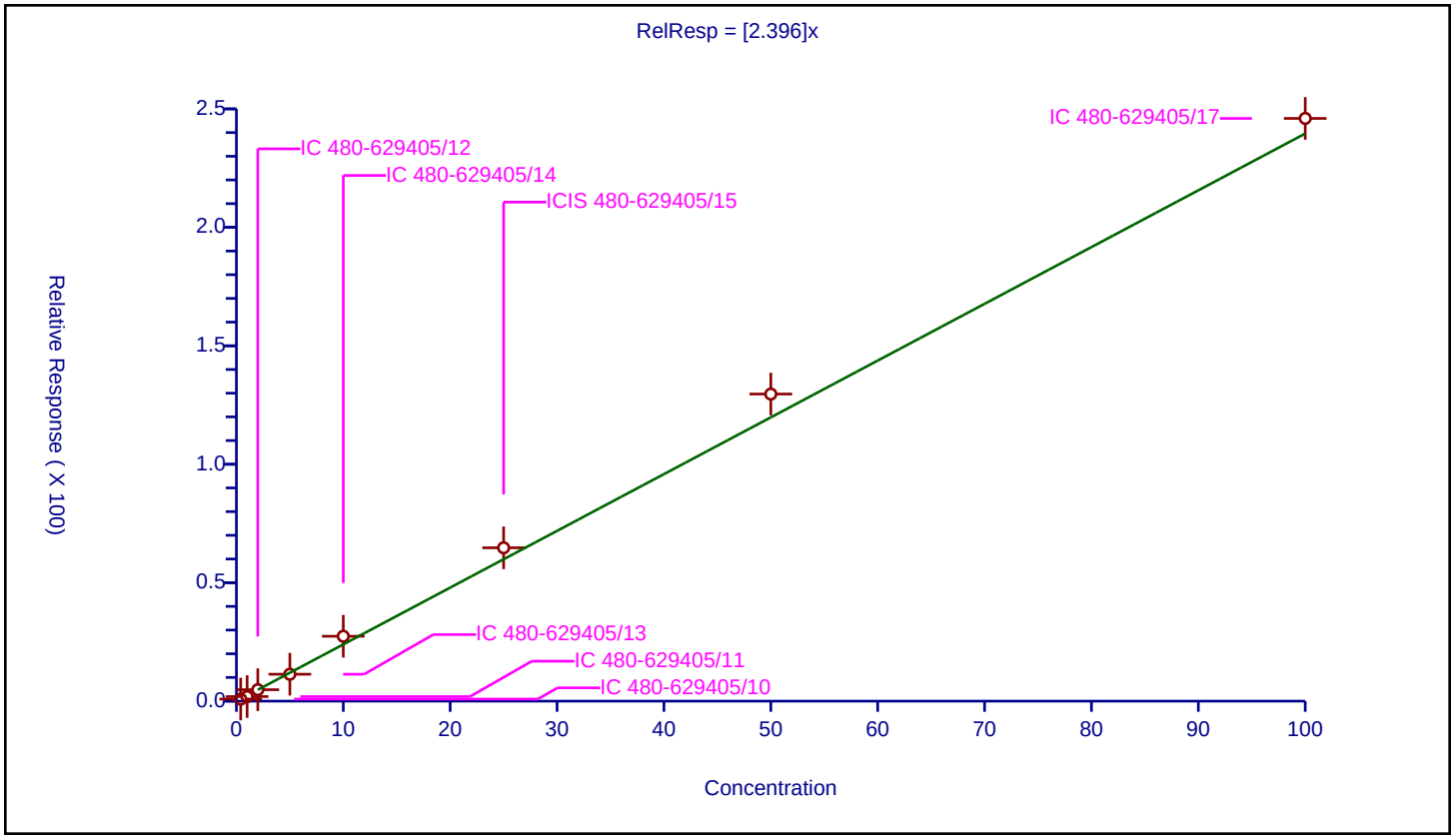
Curve Coefficients

Intercept:	0
Slope:	2.396

Error Coefficients

Standard Error:	727000
Relative Standard Error:	11.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.870589	25.0	150157.0	2.176472	Y
2	IC 480-629405/11	1.0	1.922716	25.0	149125.0	1.922716	Y
3	IC 480-629405/12	2.0	4.827426	25.0	155730.0	2.413713	Y
4	IC 480-629405/13	5.0	11.361471	25.0	160613.0	2.272294	Y
5	IC 480-629405/14	10.0	27.39365	25.0	153197.0	2.739365	Y
6	ICIS 480-629405/15	25.0	64.734753	25.0	157193.0	2.58939	Y
7	IC 480-629405/16	50.0	129.629112	25.0	159199.0	2.592582	Y
8	IC 480-629405/17	100.0	245.97092	25.0	170802.0	2.459709	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

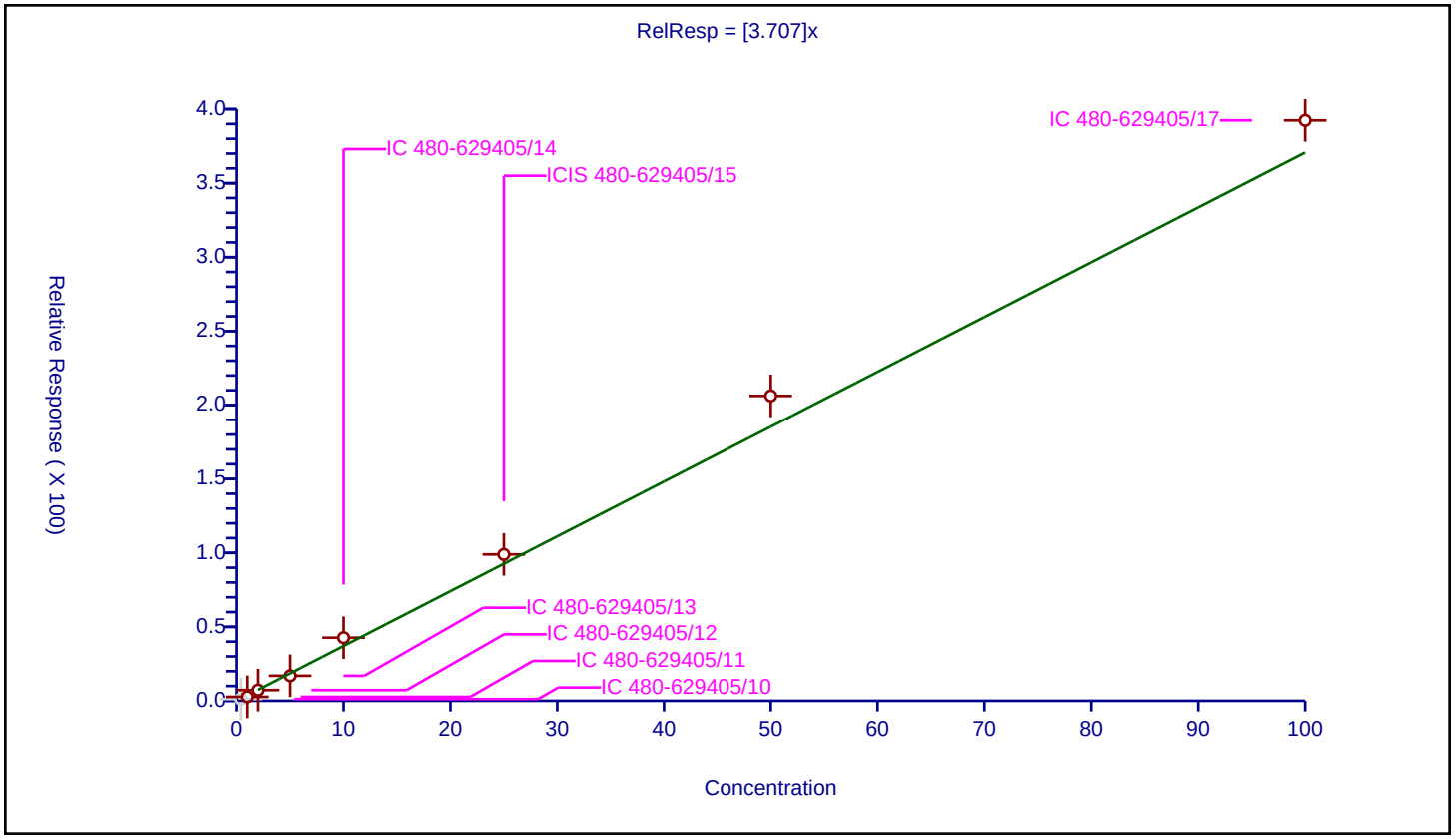
Curve Coefficients

Intercept:	0
Slope:	3.707

Error Coefficients

Standard Error:	1250000
Relative Standard Error:	14.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	1.180265	25.0	150157.0	2.950662	N
2	IC 480-629405/11	1.0	2.672925	25.0	149125.0	2.672925	Y
3	IC 480-629405/12	2.0	7.236563	25.0	155730.0	3.618282	Y
4	IC 480-629405/13	5.0	16.914415	25.0	160613.0	3.382883	Y
5	IC 480-629405/14	10.0	42.679197	25.0	153197.0	4.26792	Y
6	ICIS 480-629405/15	25.0	98.973078	25.0	157193.0	3.958923	Y
7	IC 480-629405/16	50.0	206.183456	25.0	159199.0	4.123669	Y
8	IC 480-629405/17	100.0	392.405827	25.0	170802.0	3.924058	Y



Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

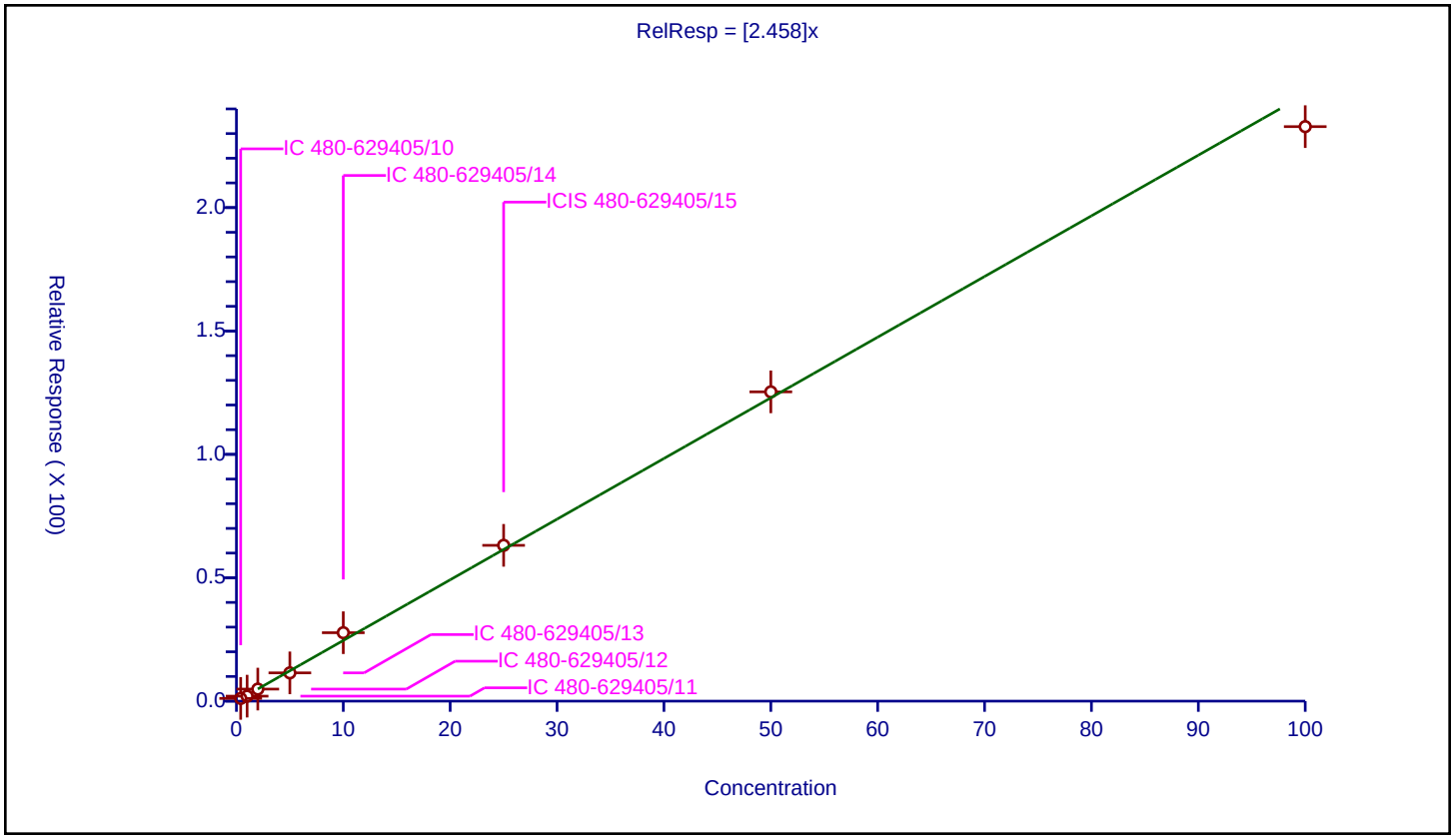
Curve Coefficients

Intercept:	0
Slope:	2.458

Error Coefficients

Standard Error:	693000
Relative Standard Error:	10.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	1.109172	25.0	150157.0	2.772931	Y
2	IC 480-629405/11	1.0	2.026823	25.0	149125.0	2.026823	Y
3	IC 480-629405/12	2.0	4.880563	25.0	155730.0	2.440281	Y
4	IC 480-629405/13	5.0	11.459689	25.0	160613.0	2.291938	Y
5	IC 480-629405/14	10.0	27.736346	25.0	153197.0	2.773635	Y
6	ICIS 480-629405/15	25.0	63.138149	25.0	157193.0	2.525526	Y
7	IC 480-629405/16	50.0	125.33009	25.0	159199.0	2.506602	Y
8	IC 480-629405/17	100.0	232.81475	25.0	170802.0	2.328148	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

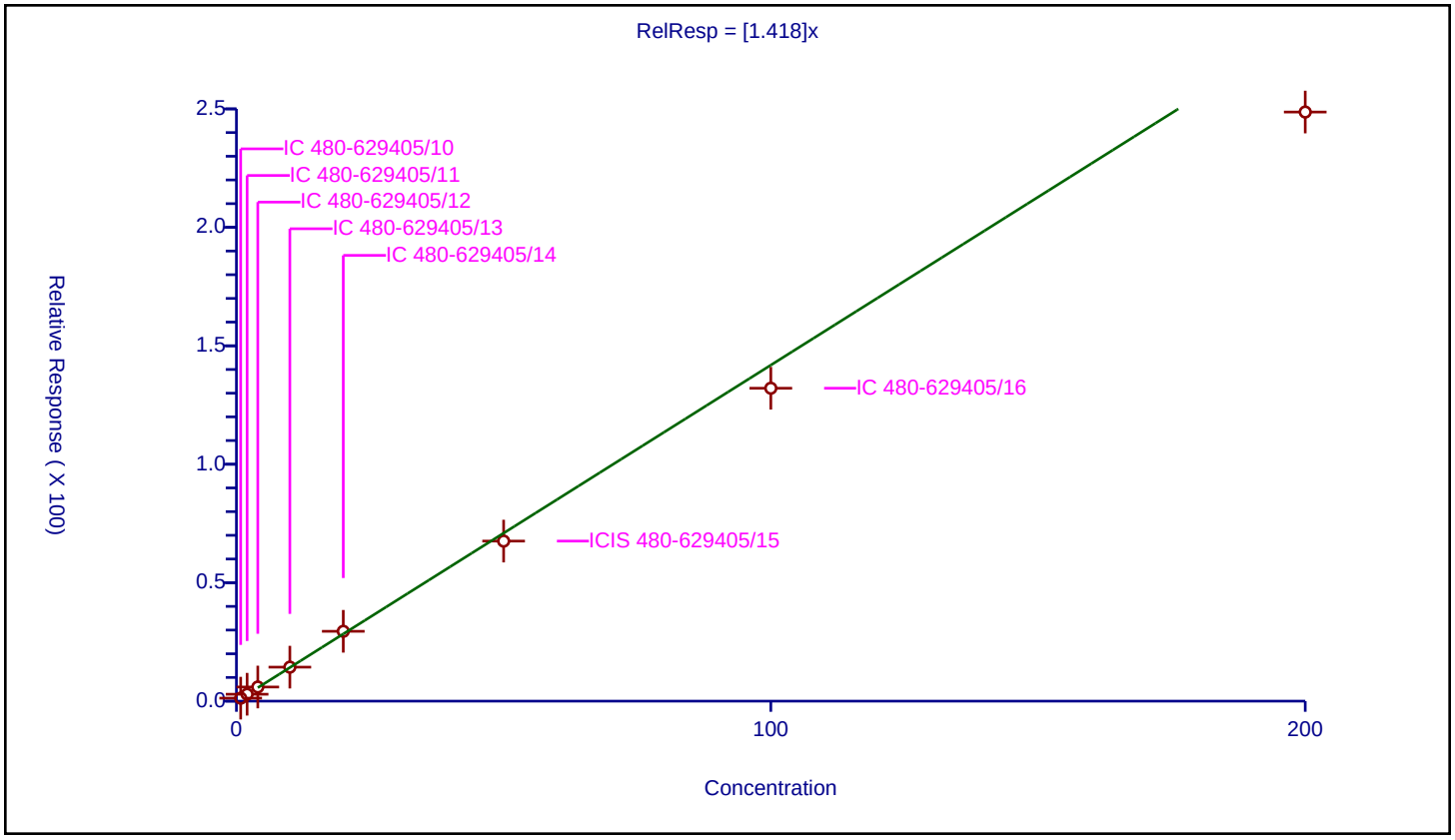
Curve Coefficients

Intercept:	0
Slope:	1.418

Error Coefficients

Standard Error:	738000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.8	1.259848	25.0	150157.0	1.57481	Y
2	IC 480-629405/11	2.0	2.915172	25.0	149125.0	1.457586	Y
3	IC 480-629405/12	4.0	5.963045	25.0	155730.0	1.490761	Y
4	IC 480-629405/13	10.0	14.347998	25.0	160613.0	1.4348	Y
5	IC 480-629405/14	20.0	29.480505	25.0	153197.0	1.474025	Y
6	ICIS 480-629405/15	50.0	67.562805	25.0	157193.0	1.351256	Y
7	IC 480-629405/16	100.0	132.086885	25.0	159199.0	1.320869	Y
8	IC 480-629405/17	200.0	248.674928	25.0	170802.0	1.243375	Y



Calibration / Methylene Chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

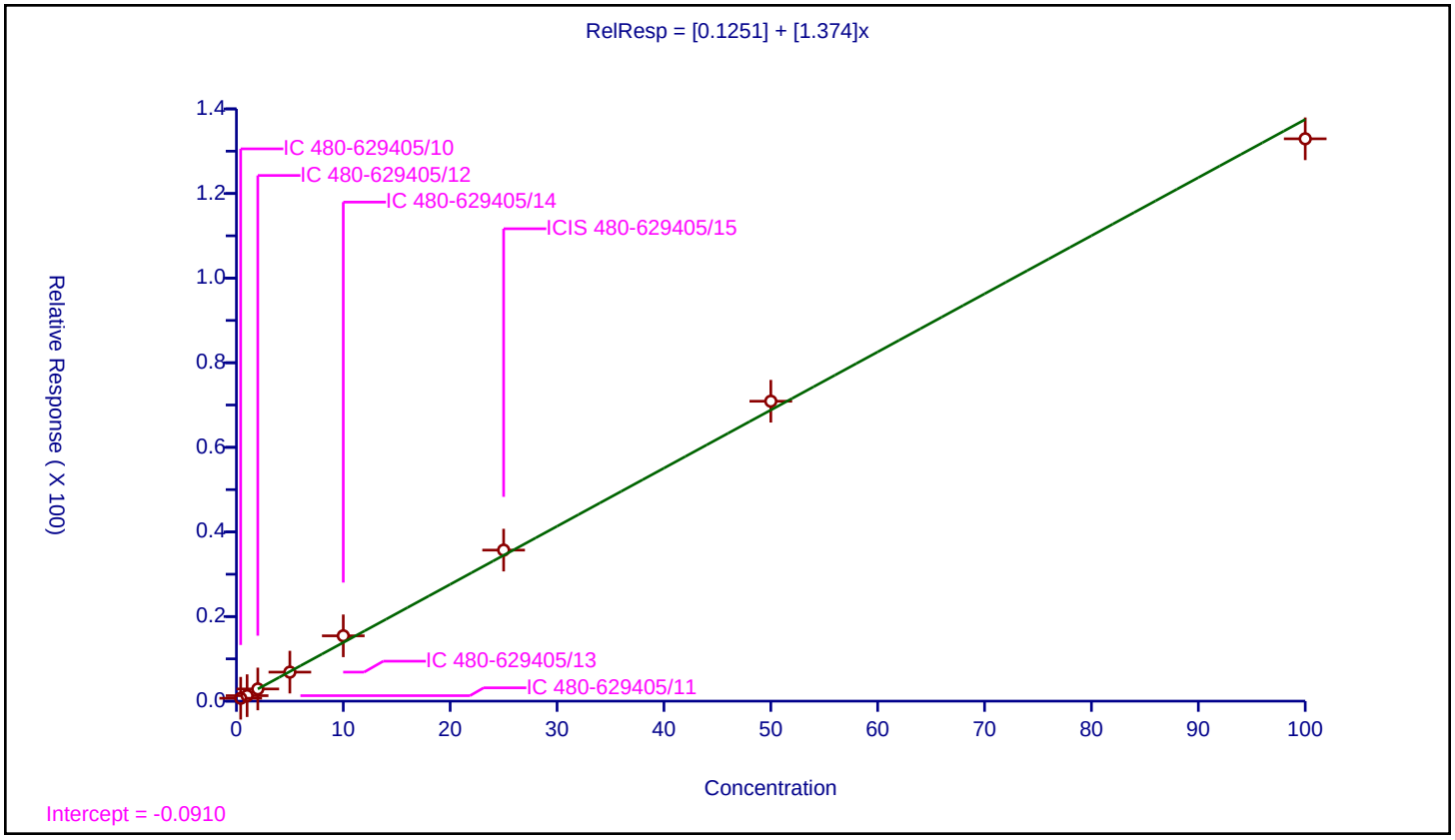
Curve Coefficients

Intercept:	0.1251
Slope:	1.374

Error Coefficients

Standard Error:	426000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.685283	25.0	150157.0	1.713207	Y
2	IC 480-629405/11	1.0	1.29254	25.0	149125.0	1.29254	Y
3	IC 480-629405/12	2.0	2.880306	25.0	155730.0	1.440153	Y
4	IC 480-629405/13	5.0	6.85701	25.0	160613.0	1.371402	Y
5	IC 480-629405/14	10.0	15.439924	25.0	153197.0	1.543992	Y
6	ICIS 480-629405/15	25.0	35.701971	25.0	157193.0	1.428079	Y
7	IC 480-629405/16	50.0	70.896488	25.0	159199.0	1.41793	Y
8	IC 480-629405/17	100.0	132.931991	25.0	170802.0	1.32932	Y



Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

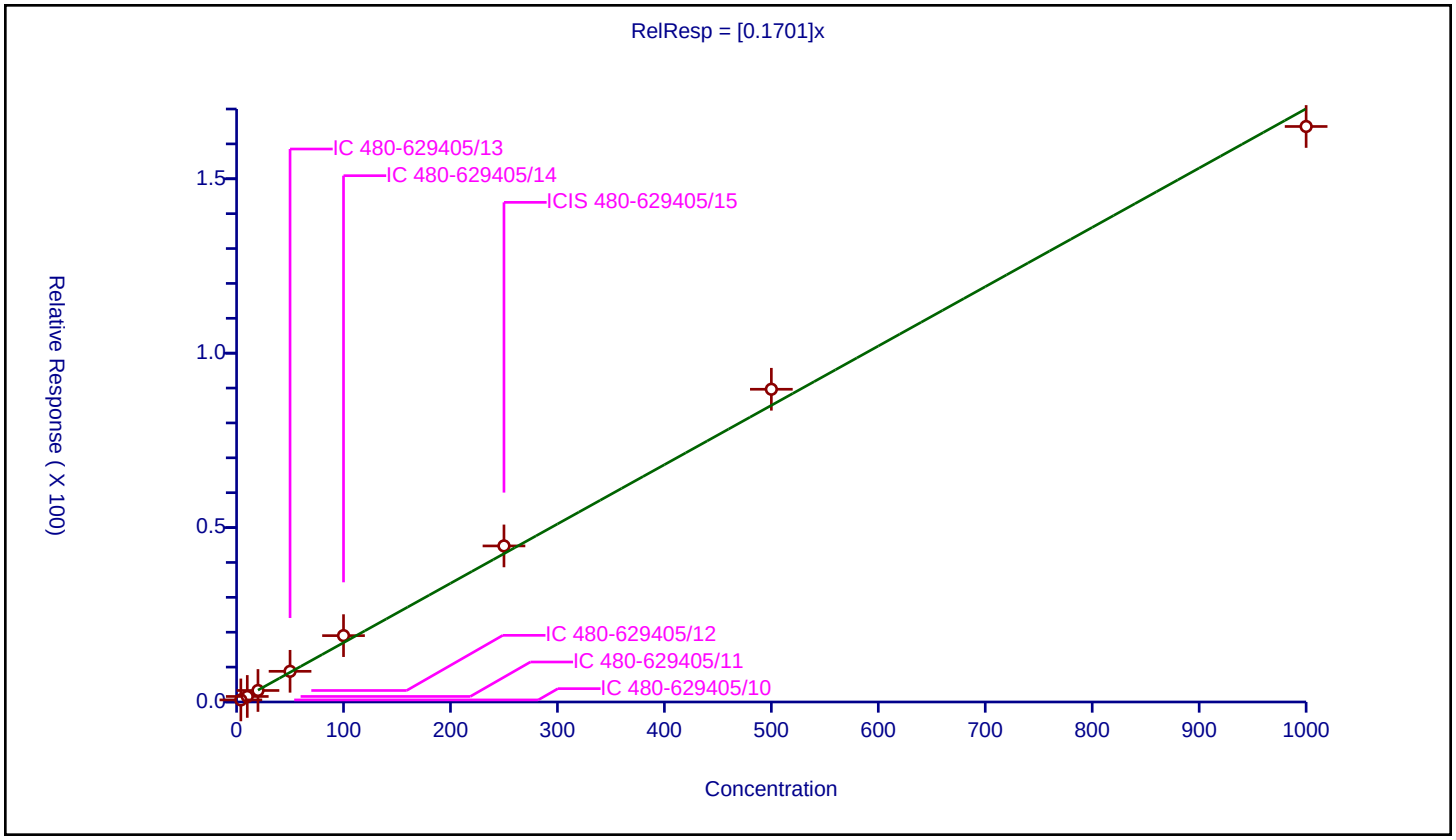
Curve Coefficients

Intercept:	0
Slope:	0.1701

Error Coefficients

Standard Error:	492000
Relative Standard Error:	8.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	4.0	0.591048	25.0	150157.0	0.147762	Y
2	IC 480-629405/11	10.0	1.587091	25.0	149125.0	0.158709	Y
3	IC 480-629405/12	20.0	3.296089	25.0	155730.0	0.164804	Y
4	IC 480-629405/13	50.0	8.794276	25.0	160613.0	0.175886	Y
5	IC 480-629405/14	100.0	19.023055	25.0	153197.0	0.190231	Y
6	ICIS 480-629405/15	250.0	44.742768	25.0	157193.0	0.178971	Y
7	IC 480-629405/16	500.0	89.657598	25.0	159199.0	0.179315	Y
8	IC 480-629405/17	1000.0	164.990164	25.0	170802.0	0.16499	Y



Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

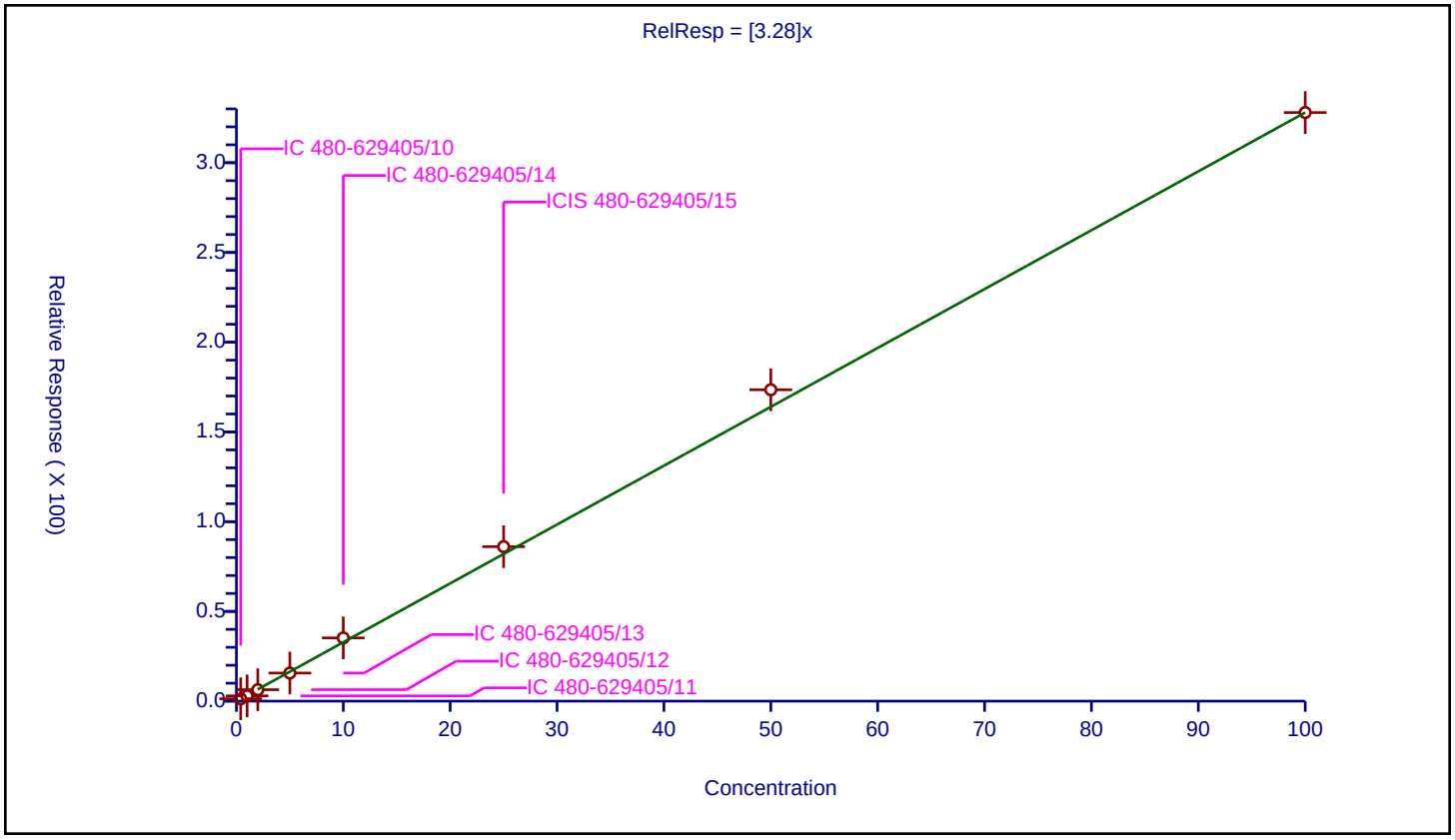
Curve Coefficients

Intercept:	0
Slope:	3.28

Error Coefficients

Standard Error:	970000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	1.313792	25.0	150157.0	3.284479	Y
2	IC 480-629405/11	1.0	2.925566	25.0	149125.0	2.925566	Y
3	IC 480-629405/12	2.0	6.367912	25.0	155730.0	3.183956	Y
4	IC 480-629405/13	5.0	15.649574	25.0	160613.0	3.129915	Y
5	IC 480-629405/14	10.0	35.220174	25.0	153197.0	3.522017	Y
6	ICIS 480-629405/15	25.0	86.069354	25.0	157193.0	3.442774	Y
7	IC 480-629405/16	50.0	173.505487	25.0	159199.0	3.47011	Y
8	IC 480-629405/17	100.0	327.973326	25.0	170802.0	3.279733	Y



Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

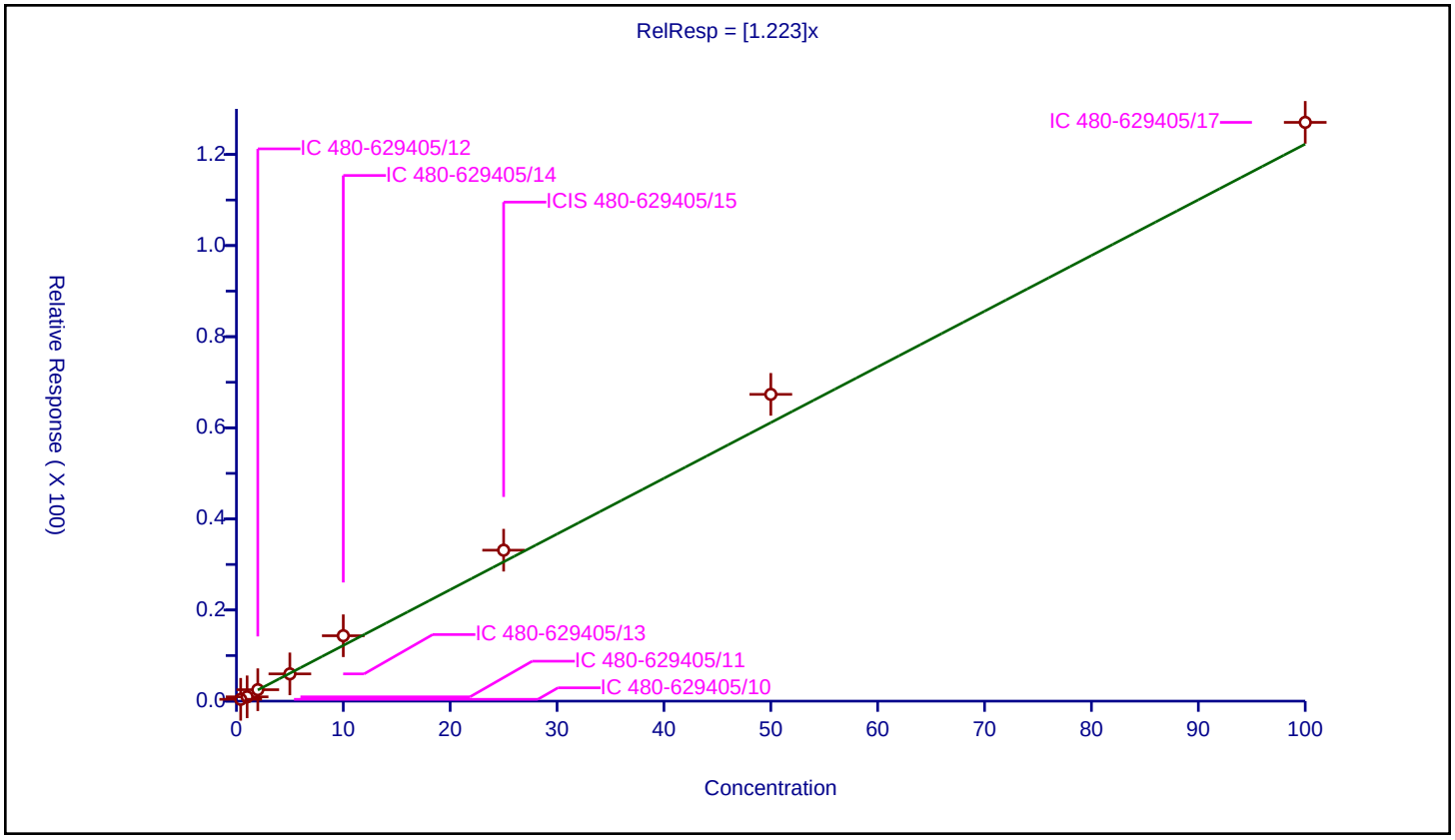
Curve Coefficients

Intercept:	0
Slope:	1.223

Error Coefficients

Standard Error:	376000
Relative Standard Error:	13.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.40158	25.0	150157.0	1.003949	Y
2	IC 480-629405/11	1.0	0.946689	25.0	149125.0	0.946689	Y
3	IC 480-629405/12	2.0	2.512522	25.0	155730.0	1.256261	Y
4	IC 480-629405/13	5.0	5.984727	25.0	160613.0	1.196945	Y
5	IC 480-629405/14	10.0	14.357168	25.0	153197.0	1.435717	Y
6	ICIS 480-629405/15	25.0	33.134427	25.0	157193.0	1.325377	Y
7	IC 480-629405/16	50.0	67.339305	25.0	159199.0	1.346786	Y
8	IC 480-629405/17	100.0	127.042131	25.0	170802.0	1.270421	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

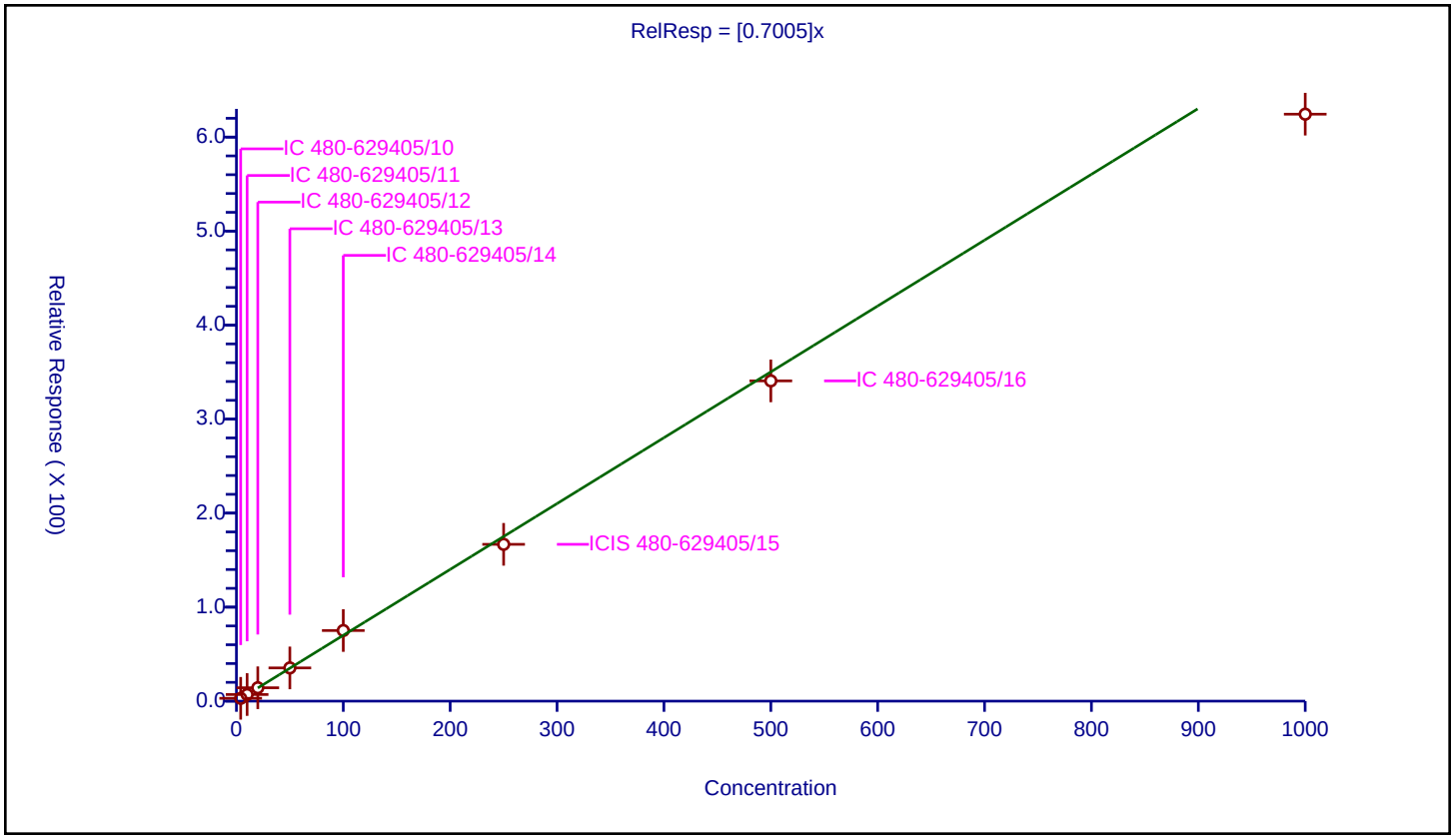
Curve Coefficients

Intercept:	0
Slope:	0.7005

Error Coefficients

Standard Error:	1860000
Relative Standard Error:	6.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	4.0	3.024501	25.0	150157.0	0.756125	Y
2	IC 480-629405/11	10.0	7.04627	25.0	149125.0	0.704627	Y
3	IC 480-629405/12	20.0	14.249502	25.0	155730.0	0.712475	Y
4	IC 480-629405/13	50.0	35.341006	25.0	160613.0	0.70682	Y
5	IC 480-629405/14	100.0	75.121902	25.0	153197.0	0.751219	Y
6	ICIS 480-629405/15	250.0	166.807205	25.0	157193.0	0.667229	Y
7	IC 480-629405/16	500.0	340.680061	25.0	159199.0	0.68136	Y
8	IC 480-629405/17	1000.0	624.387302	25.0	170802.0	0.624387	Y



Calibration / Hexane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

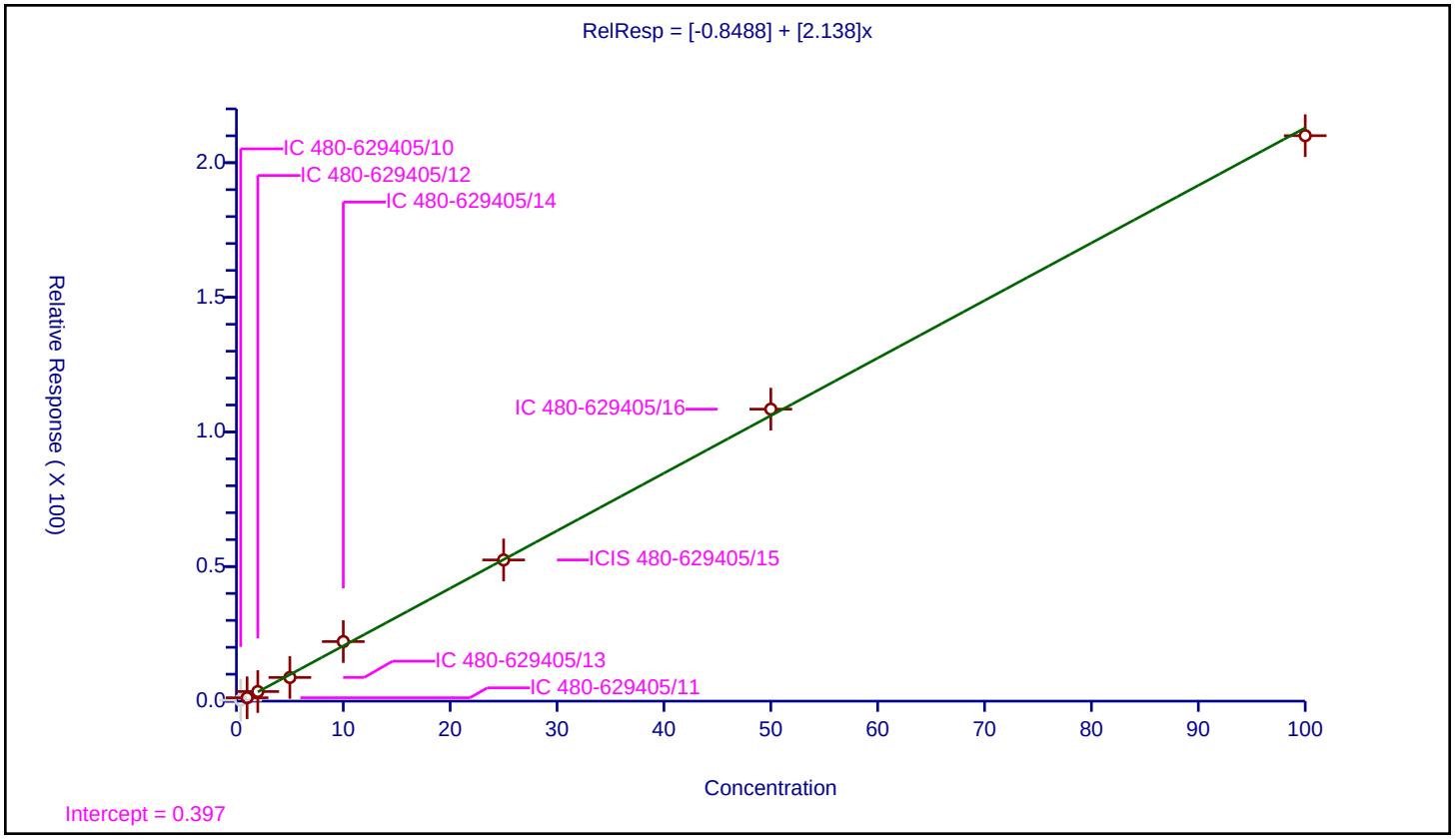
Curve Coefficients

Intercept:	-0.8488
Slope:	2.138

Error Coefficients

Standard Error:	730000
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.364951	25.0	150157.0	0.912378	N
2	IC 480-629405/11	1.0	1.258005	25.0	149125.0	1.258005	Y
3	IC 480-629405/12	2.0	3.565947	25.0	155730.0	1.782974	Y
4	IC 480-629405/13	5.0	8.788205	25.0	160613.0	1.757641	Y
5	IC 480-629405/14	10.0	22.127228	25.0	153197.0	2.212723	Y
6	ICIS 480-629405/15	25.0	52.453672	25.0	157193.0	2.098147	Y
7	IC 480-629405/16	50.0	108.466134	25.0	159199.0	2.169323	Y
8	IC 480-629405/17	100.0	210.047745	25.0	170802.0	2.100477	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

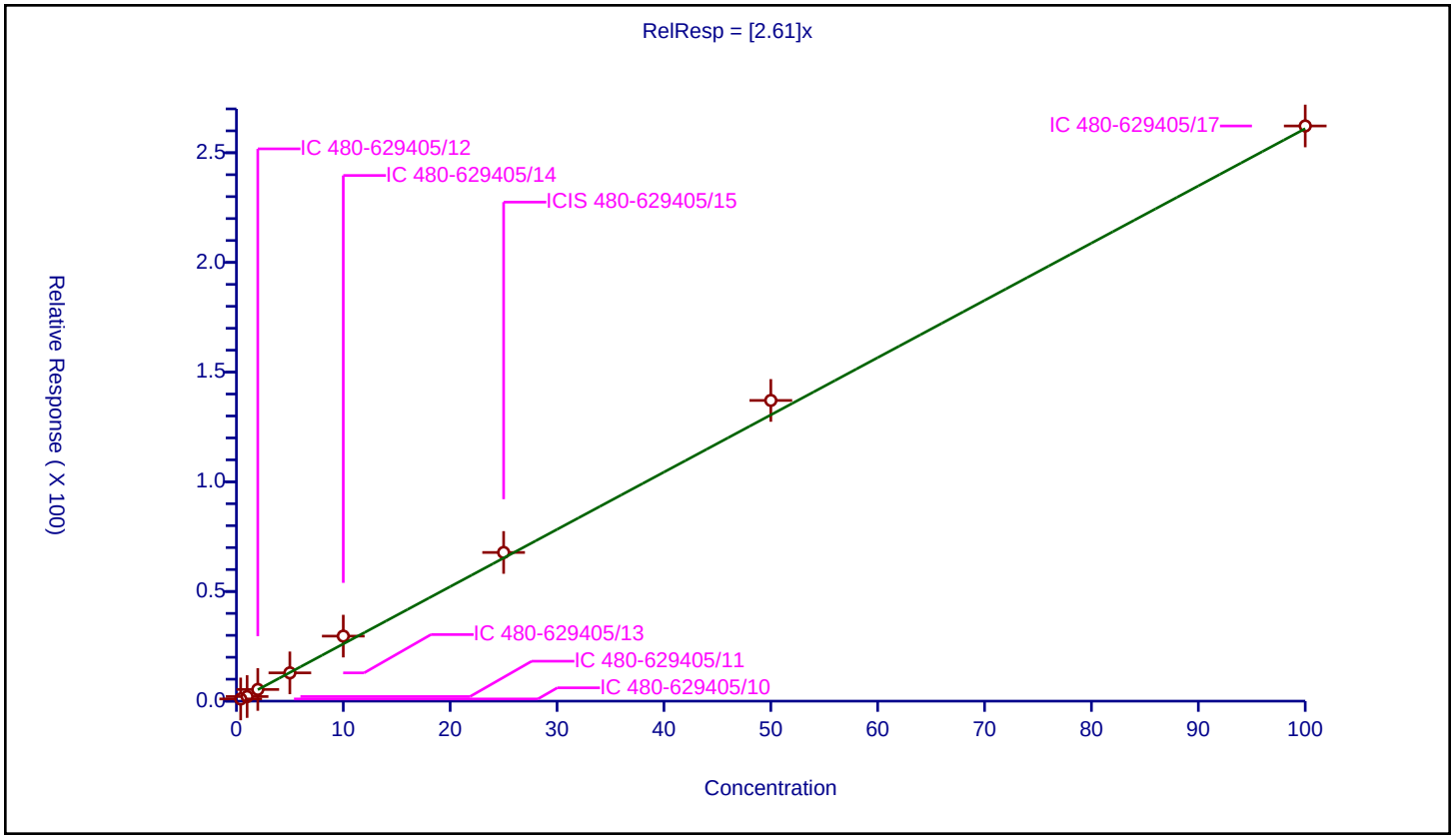
Curve Coefficients

Intercept:	0
Slope:	2.61

Error Coefficients

Standard Error:	774000
Relative Standard Error:	9.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	1.003783	25.0	150157.0	2.509457	Y
2	IC 480-629405/11	1.0	2.091366	25.0	149125.0	2.091366	Y
3	IC 480-629405/12	2.0	5.322353	25.0	155730.0	2.661176	Y
4	IC 480-629405/13	5.0	12.889679	25.0	160613.0	2.577936	Y
5	IC 480-629405/14	10.0	29.645979	25.0	153197.0	2.964598	Y
6	ICIS 480-629405/15	25.0	67.783235	25.0	157193.0	2.711329	Y
7	IC 480-629405/16	50.0	137.08723	25.0	159199.0	2.741745	Y
8	IC 480-629405/17	100.0	262.218826	25.0	170802.0	2.622188	Y



Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

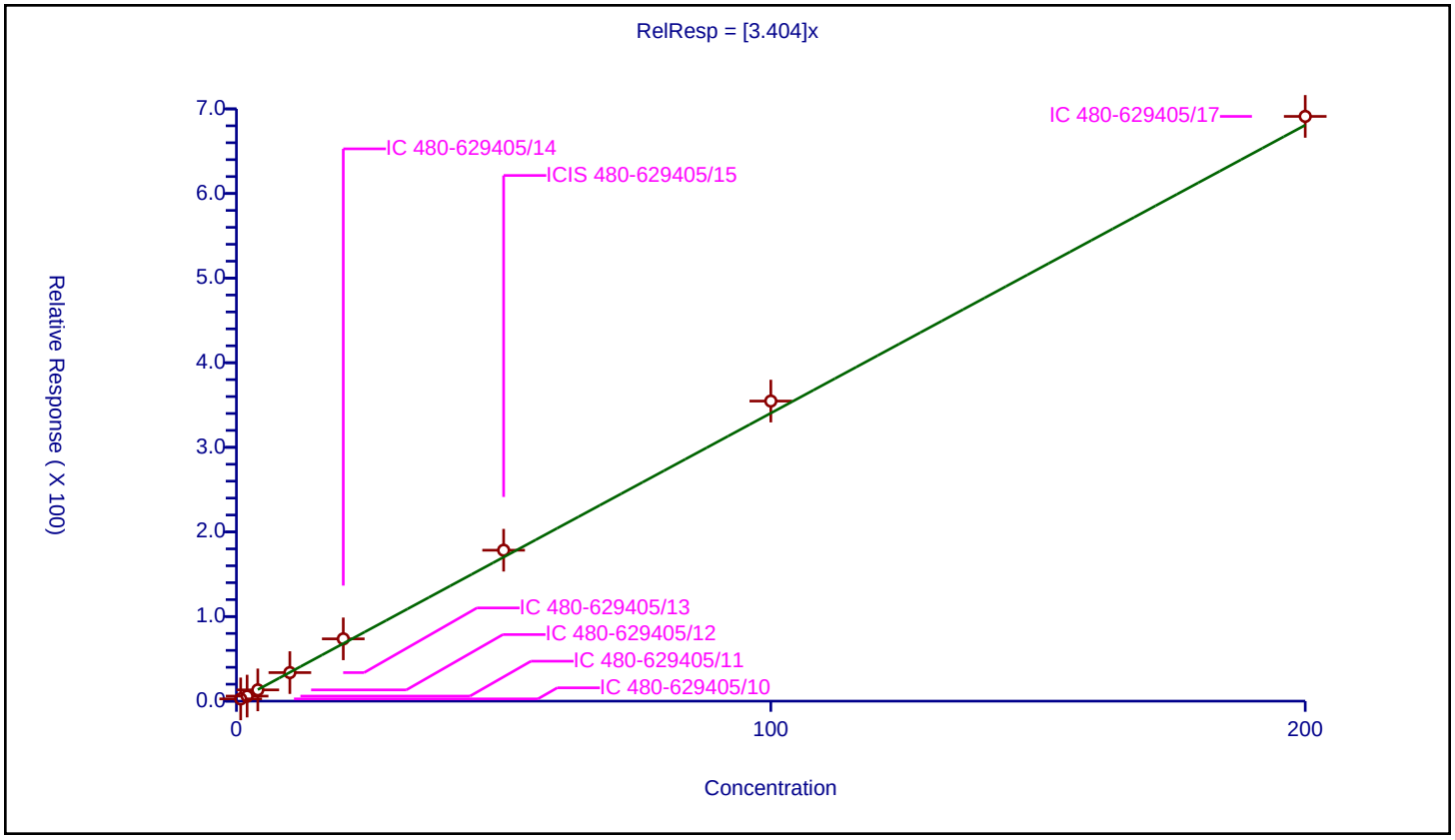
Curve Coefficients

Intercept:	0
Slope:	3.404

Error Coefficients

Standard Error:	2030000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.8	2.64623	25.0	150157.0	3.307788	Y
2	IC 480-629405/11	2.0	5.951215	25.0	149125.0	2.975608	Y
3	IC 480-629405/12	4.0	13.298979	25.0	155730.0	3.324745	Y
4	IC 480-629405/13	10.0	33.736528	25.0	160613.0	3.373653	Y
5	IC 480-629405/14	20.0	73.610939	25.0	153197.0	3.680547	Y
6	ICIS 480-629405/15	50.0	178.375627	25.0	157193.0	3.567513	Y
7	IC 480-629405/16	100.0	354.681876	25.0	159199.0	3.546819	Y
8	IC 480-629405/17	200.0	691.135642	25.0	170802.0	3.455678	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

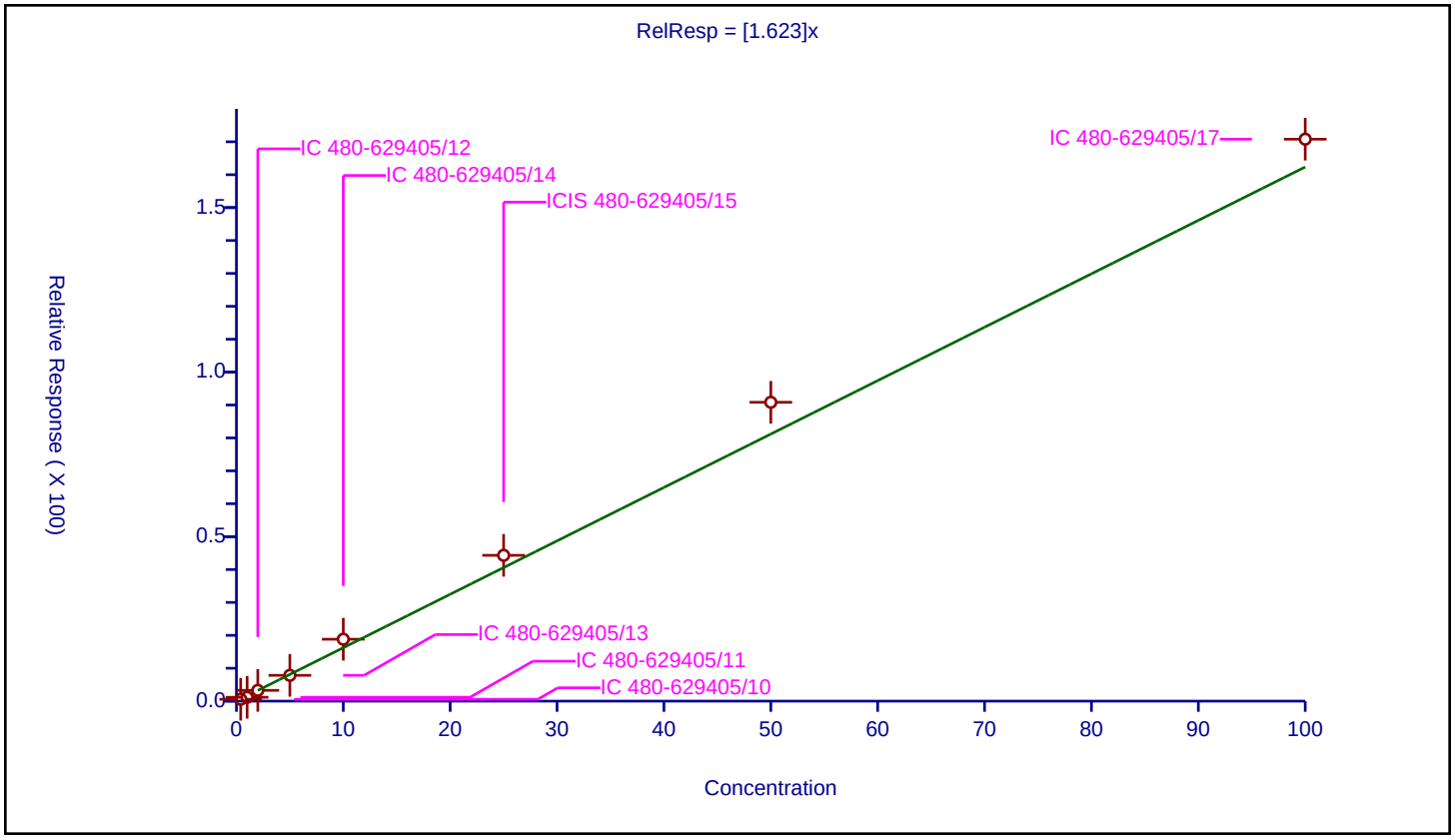
Curve Coefficients

Intercept:	0
Slope:	1.623

Error Coefficients

Standard Error:	506000
Relative Standard Error:	14.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.571735	25.0	150157.0	1.429337	Y
2	IC 480-629405/11	1.0	1.172171	25.0	149125.0	1.172171	Y
3	IC 480-629405/12	2.0	3.27827	25.0	155730.0	1.639135	Y
4	IC 480-629405/13	5.0	7.841053	25.0	160613.0	1.568211	Y
5	IC 480-629405/14	10.0	18.817601	25.0	153197.0	1.88176	Y
6	ICIS 480-629405/15	25.0	44.317018	25.0	157193.0	1.772681	Y
7	IC 480-629405/16	50.0	90.830816	25.0	159199.0	1.816616	Y
8	IC 480-629405/17	100.0	170.798351	25.0	170802.0	1.707984	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

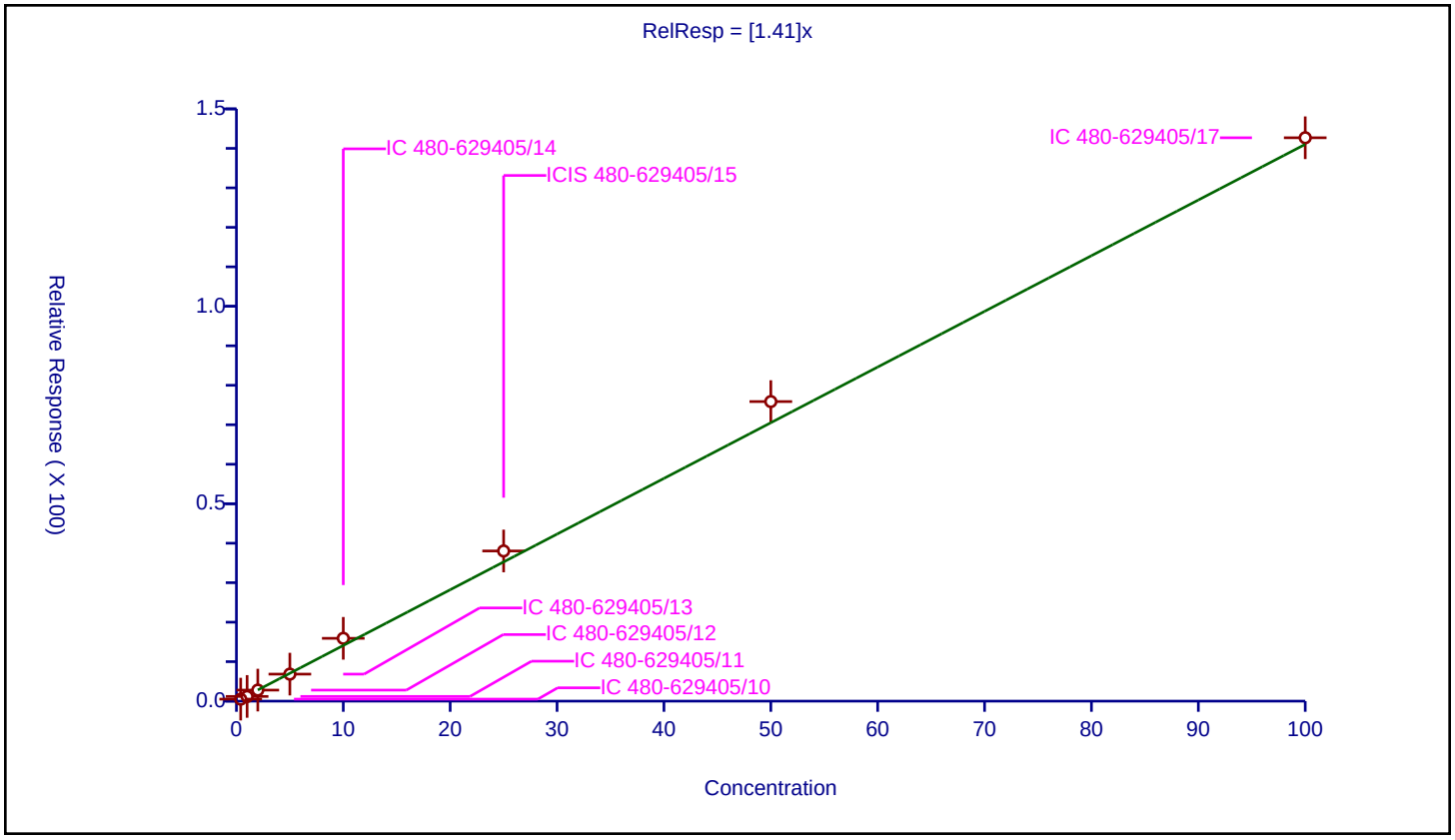
Curve Coefficients

Intercept:	0
Slope:	1.41

Error Coefficients

Standard Error:	423000
Relative Standard Error:	9.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.507469	25.0	150157.0	1.268672	Y
2	IC 480-629405/11	1.0	1.187594	25.0	149125.0	1.187594	Y
3	IC 480-629405/12	2.0	2.799236	25.0	155730.0	1.399618	Y
4	IC 480-629405/13	5.0	6.846115	25.0	160613.0	1.369223	Y
5	IC 480-629405/14	10.0	15.912518	25.0	153197.0	1.591252	Y
6	ICIS 480-629405/15	25.0	38.034136	25.0	157193.0	1.521365	Y
7	IC 480-629405/16	50.0	75.869195	25.0	159199.0	1.517384	Y
8	IC 480-629405/17	100.0	142.687732	25.0	170802.0	1.426877	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

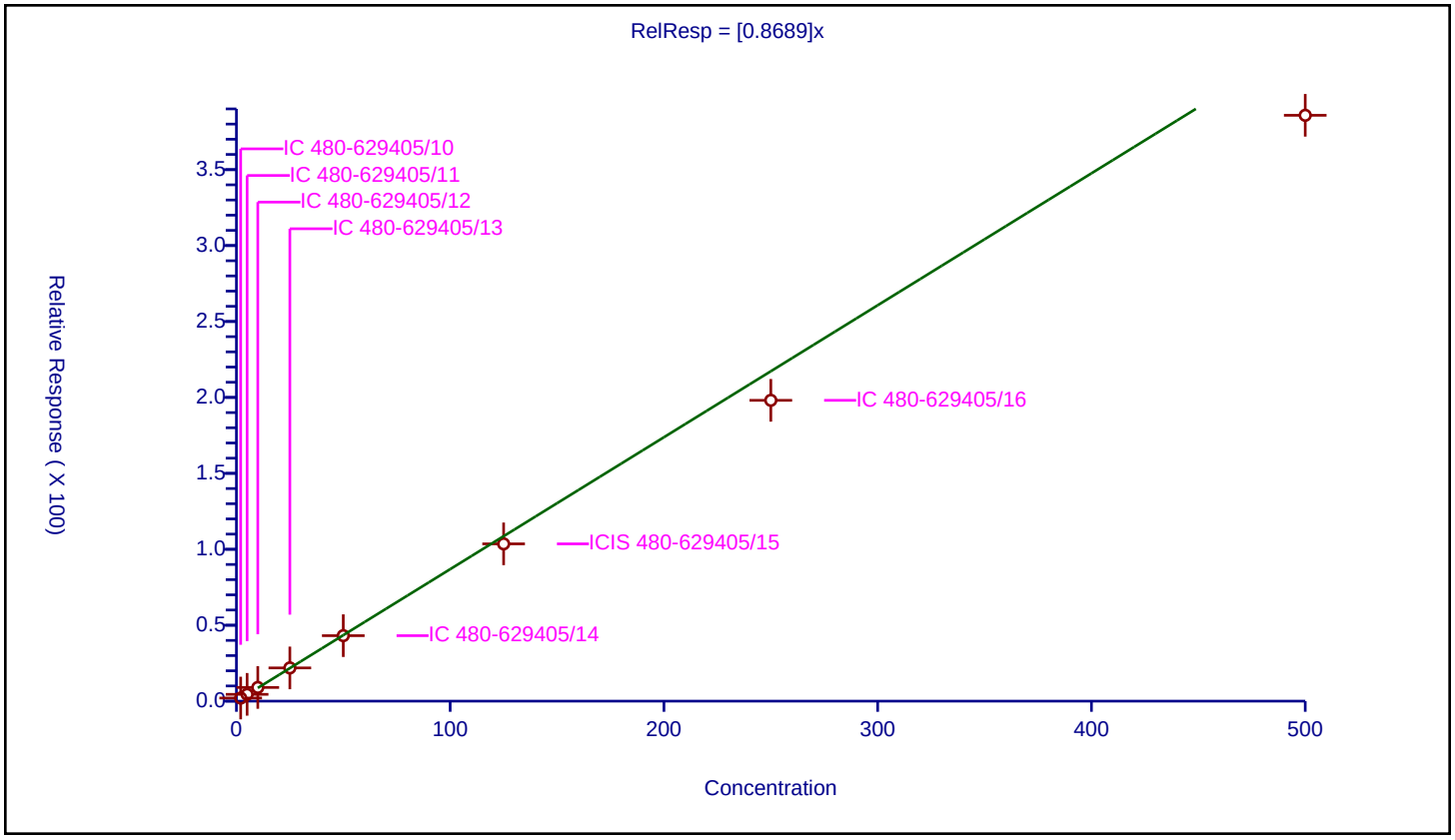
Curve Coefficients

Intercept:	0
Slope:	0.8689

Error Coefficients

Standard Error:	1140000
Relative Standard Error:	9.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	2.0	2.048023	25.0	150157.0	1.024012	Y
2	IC 480-629405/11	5.0	4.485499	25.0	149125.0	0.8971	Y
3	IC 480-629405/12	10.0	9.000995	25.0	155730.0	0.9001	Y
4	IC 480-629405/13	25.0	21.880545	25.0	160613.0	0.875222	Y
5	IC 480-629405/14	50.0	43.125029	25.0	153197.0	0.862501	Y
6	ICIS 480-629405/15	125.0	103.567589	25.0	157193.0	0.828541	Y
7	IC 480-629405/16	250.0	198.099548	25.0	159199.0	0.792398	Y
8	IC 480-629405/17	500.0	385.774464	25.0	170802.0	0.771549	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

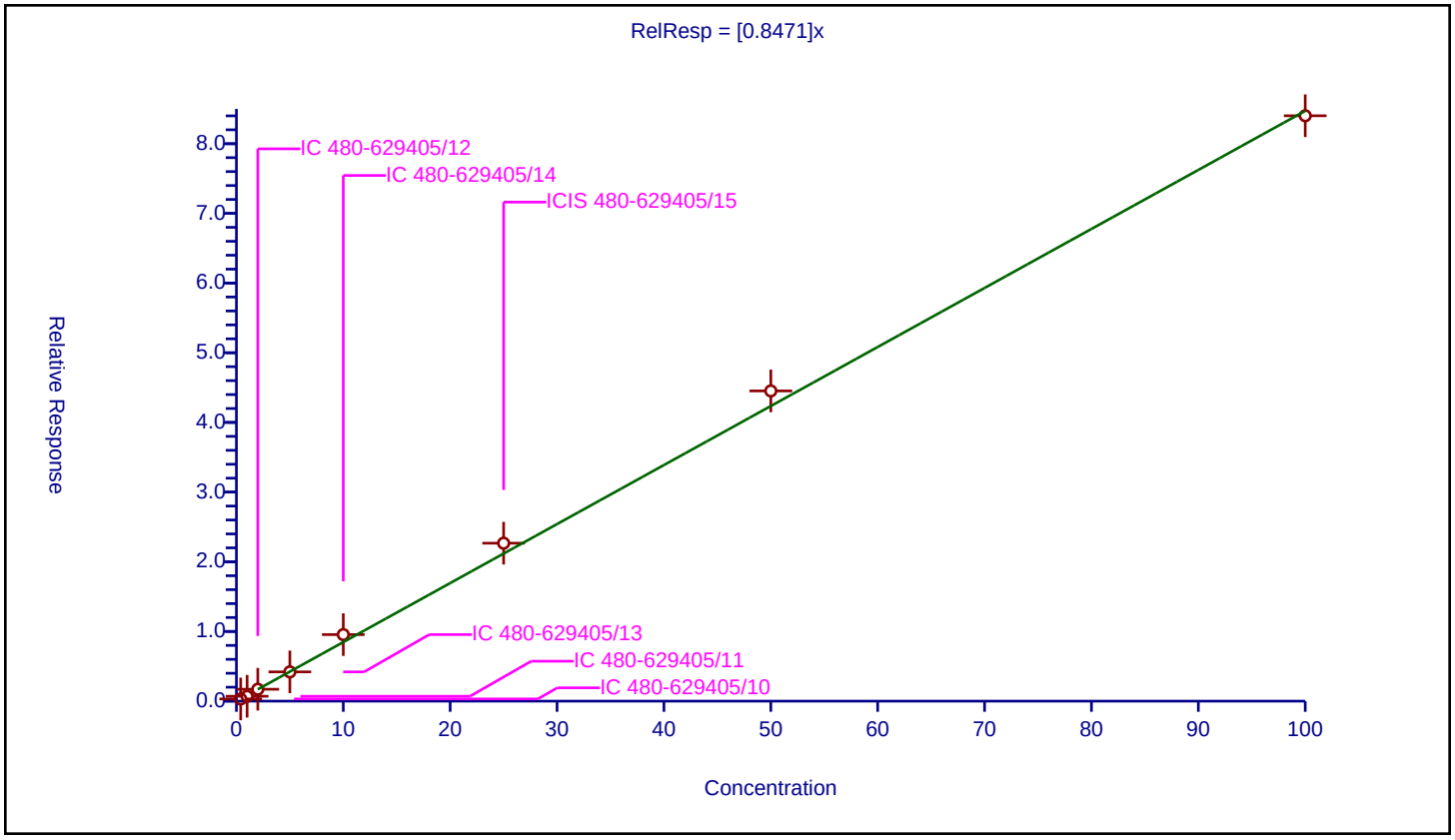
Curve Coefficients

Intercept:	0
Slope:	0.8471

Error Coefficients

Standard Error:	249000
Relative Standard Error:	9.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.316669	25.0	150157.0	0.791671	Y
2	IC 480-629405/11	1.0	0.699916	25.0	149125.0	0.699916	Y
3	IC 480-629405/12	2.0	1.705998	25.0	155730.0	0.852999	Y
4	IC 480-629405/13	5.0	4.19829	25.0	160613.0	0.839658	Y
5	IC 480-629405/14	10.0	9.551264	25.0	153197.0	0.955126	Y
6	ICIS 480-629405/15	25.0	22.670062	25.0	157193.0	0.906802	Y
7	IC 480-629405/16	50.0	44.524777	25.0	159199.0	0.890496	Y
8	IC 480-629405/17	100.0	84.014239	25.0	170802.0	0.840142	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

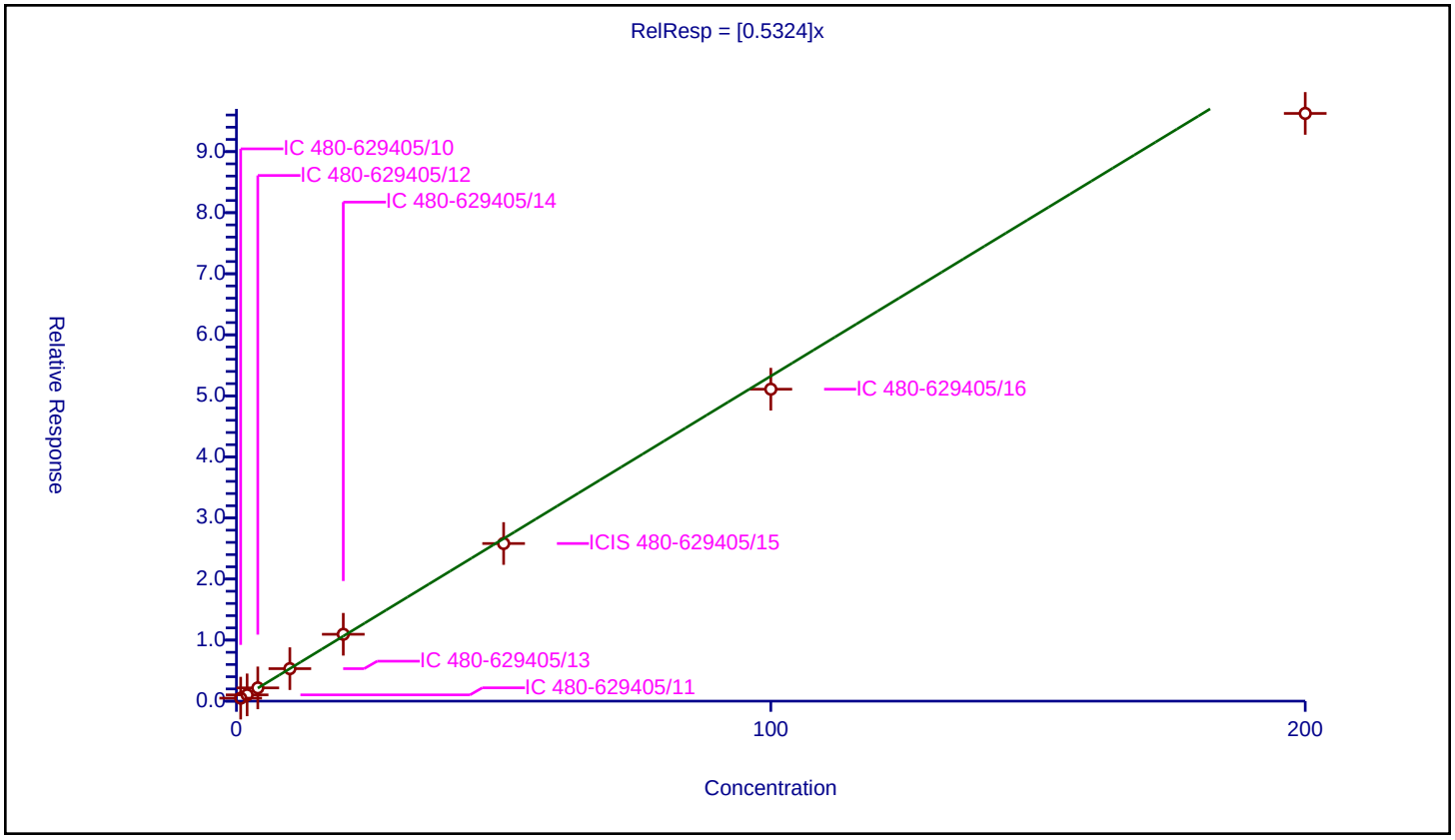
Curve Coefficients

Intercept:	0
Slope:	0.5324

Error Coefficients

Standard Error:	285000
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.8	0.491985	25.0	150157.0	0.614981	Y
2	IC 480-629405/11	2.0	1.02565	25.0	149125.0	0.512825	Y
3	IC 480-629405/12	4.0	2.170905	25.0	155730.0	0.542726	Y
4	IC 480-629405/13	10.0	5.321643	25.0	160613.0	0.532164	Y
5	IC 480-629405/14	20.0	10.950769	25.0	153197.0	0.547538	Y
6	ICIS 480-629405/15	50.0	25.818103	25.0	157193.0	0.516362	Y
7	IC 480-629405/16	100.0	51.091872	25.0	159199.0	0.510919	Y
8	IC 480-629405/17	200.0	96.259119	25.0	170802.0	0.481296	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

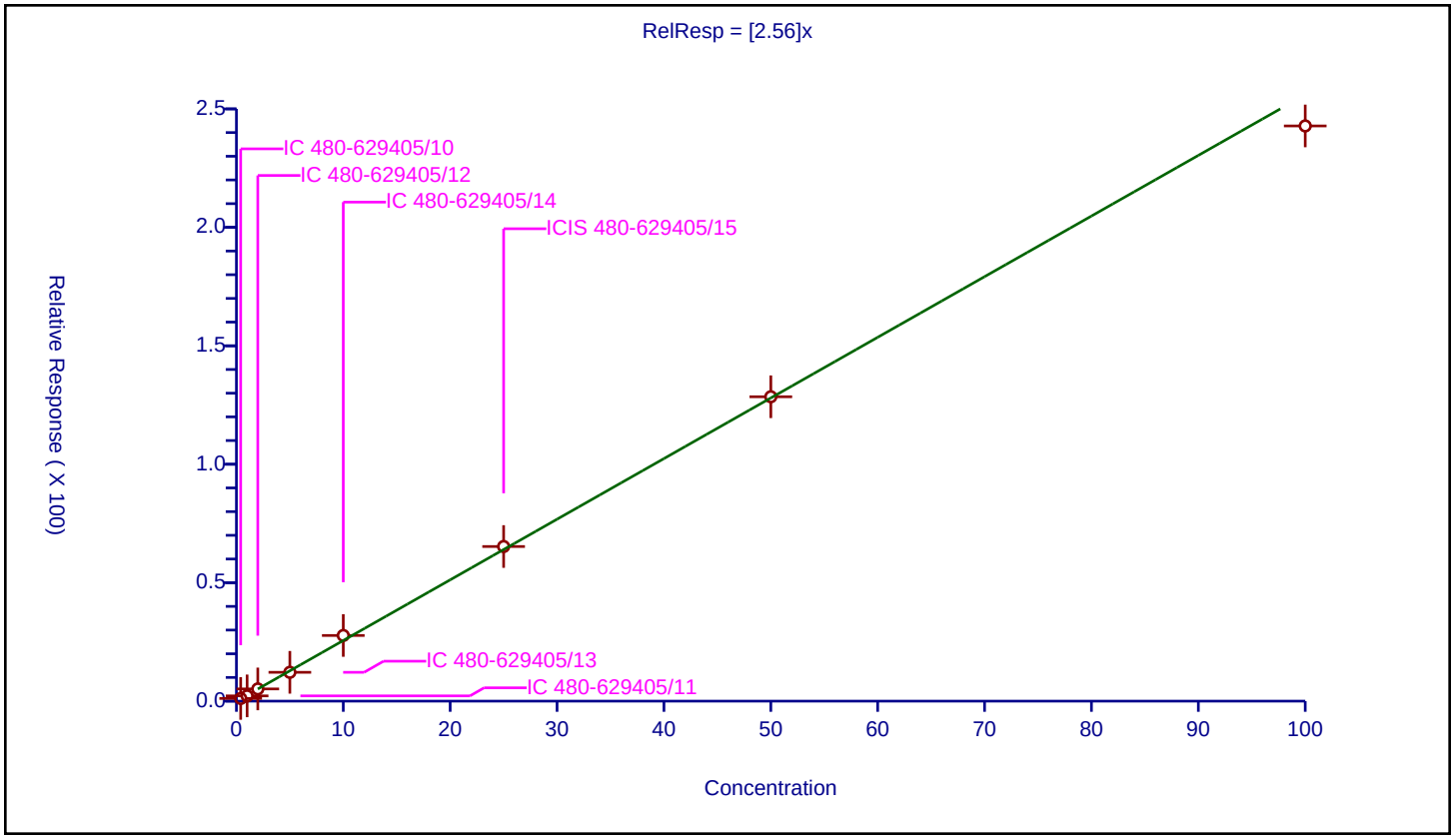
Curve Coefficients

Intercept:	0
Slope:	2.56

Error Coefficients

Standard Error:	720000
Relative Standard Error:	7.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	1.145135	25.0	150157.0	2.862837	Y
2	IC 480-629405/11	1.0	2.22347	25.0	149125.0	2.22347	Y
3	IC 480-629405/12	2.0	5.153471	25.0	155730.0	2.576735	Y
4	IC 480-629405/13	5.0	12.169003	25.0	160613.0	2.433801	Y
5	IC 480-629405/14	10.0	27.71709	25.0	153197.0	2.771709	Y
6	ICIS 480-629405/15	25.0	65.273104	25.0	157193.0	2.610924	Y
7	IC 480-629405/16	50.0	128.488715	25.0	159199.0	2.569774	Y
8	IC 480-629405/17	100.0	242.802192	25.0	170802.0	2.428022	Y



Calibration / 1,1,1-Trichloroethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

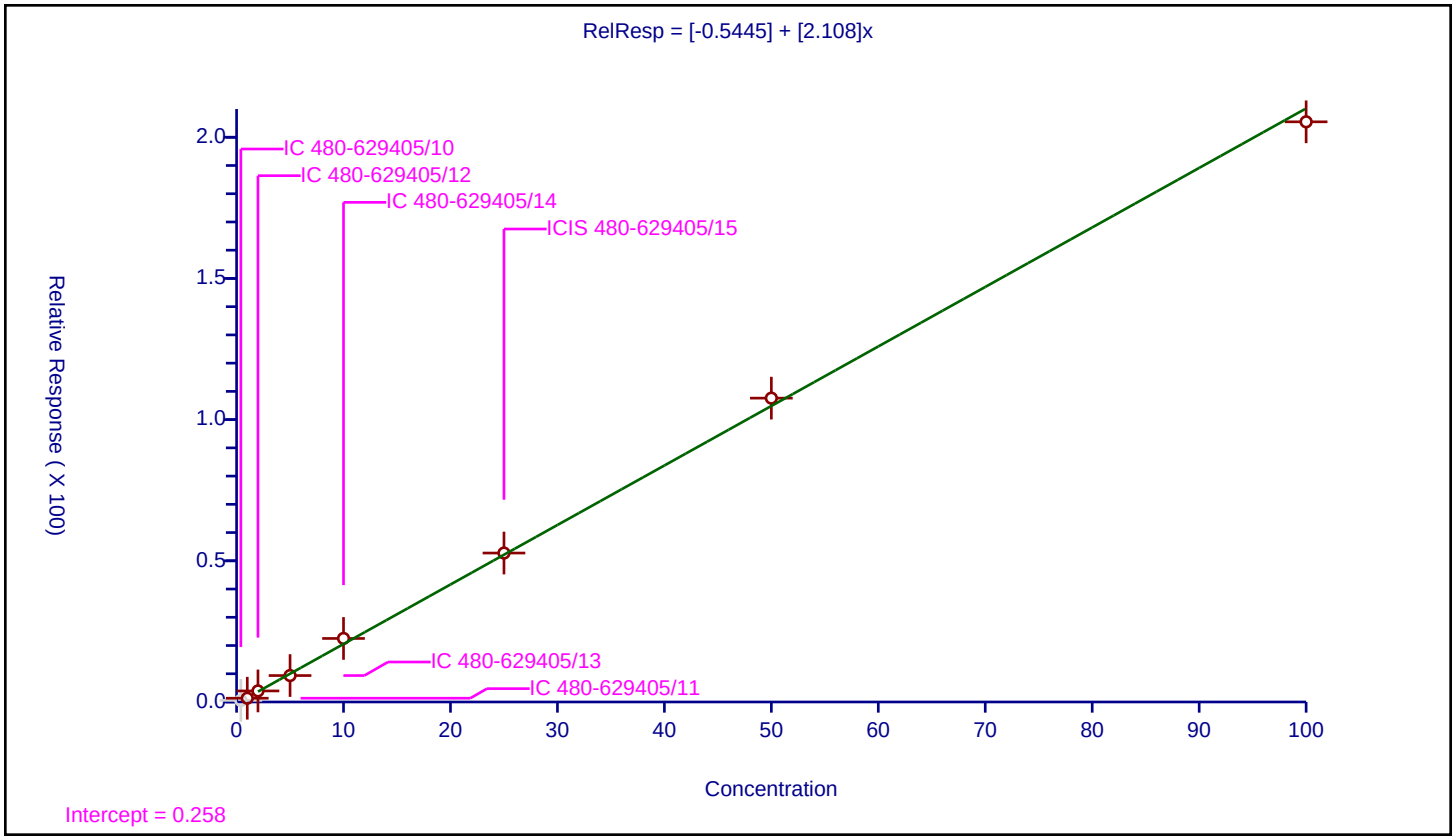
Curve Coefficients

Intercept:	-0.5445
Slope:	2.108

Error Coefficients

Standard Error:	717000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.568405	25.0	150157.0	1.421013	N
2	IC 480-629405/11	1.0	1.338307	25.0	149125.0	1.338307	Y
3	IC 480-629405/12	2.0	3.912541	25.0	155730.0	1.95627	Y
4	IC 480-629405/13	5.0	9.365213	25.0	160613.0	1.873043	Y
5	IC 480-629405/14	10.0	22.502562	25.0	153197.0	2.250256	Y
6	ICIS 480-629405/15	25.0	52.746783	25.0	157193.0	2.109871	Y
7	IC 480-629405/16	50.0	107.609187	25.0	159199.0	2.152184	Y
8	IC 480-629405/17	100.0	205.469637	25.0	170802.0	2.054696	Y



Calibration / Cyclohexane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

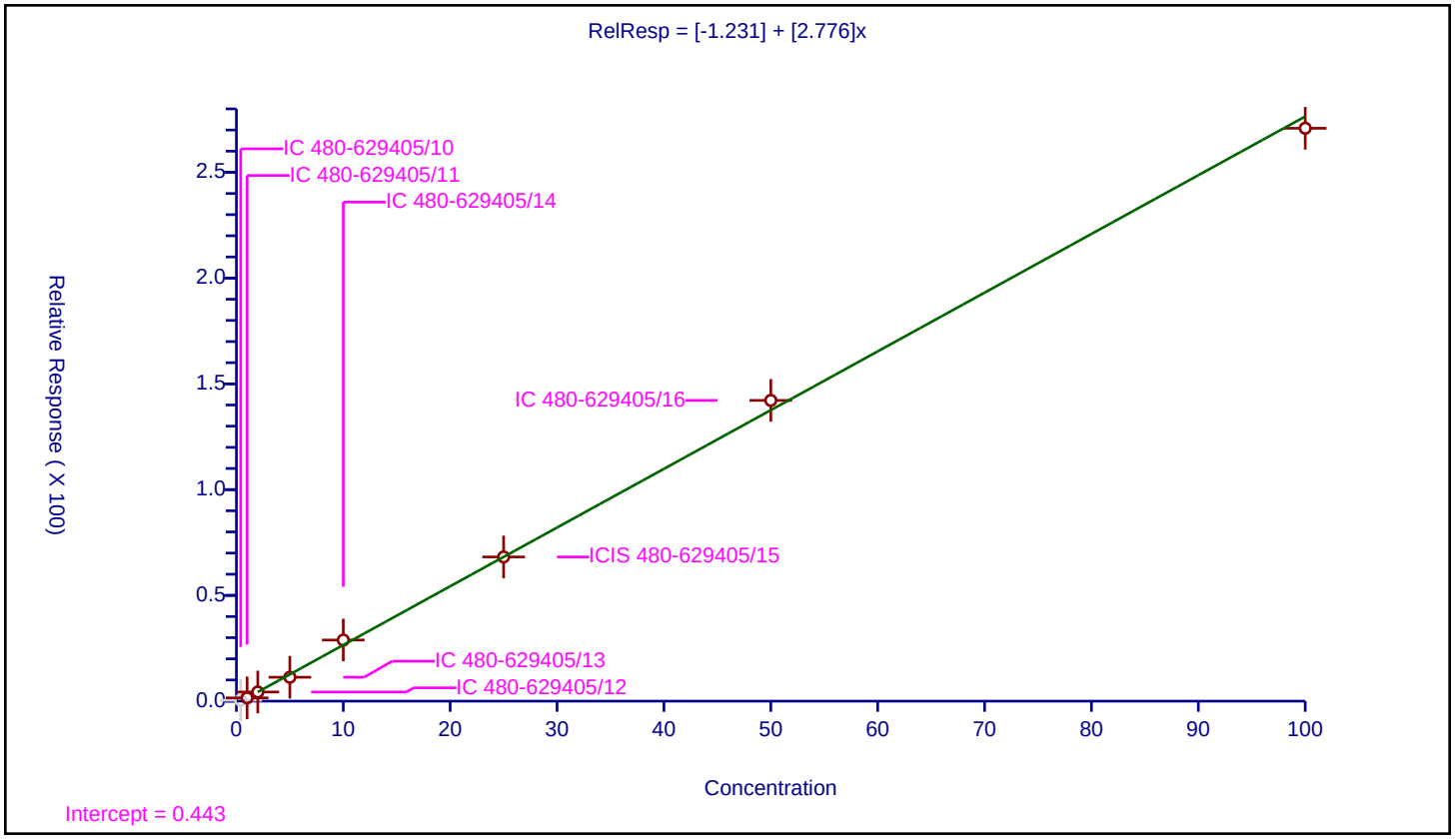
Curve Coefficients

Intercept:	-1.231
Slope:	2.776

Error Coefficients

Standard Error:	945000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.422891	25.0	150157.0	1.057227	N
2	IC 480-629405/11	1.0	1.546018	25.0	149125.0	1.546018	Y
3	IC 480-629405/12	2.0	4.319977	25.0	155730.0	2.159988	Y
4	IC 480-629405/13	5.0	11.298587	25.0	160613.0	2.259717	Y
5	IC 480-629405/14	10.0	28.889926	25.0	153197.0	2.888993	Y
6	ICIS 480-629405/15	25.0	68.167317	25.0	157193.0	2.726693	Y
7	IC 480-629405/16	50.0	142.181327	25.0	159199.0	2.843627	Y
8	IC 480-629405/17	100.0	270.83187	25.0	170802.0	2.708319	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

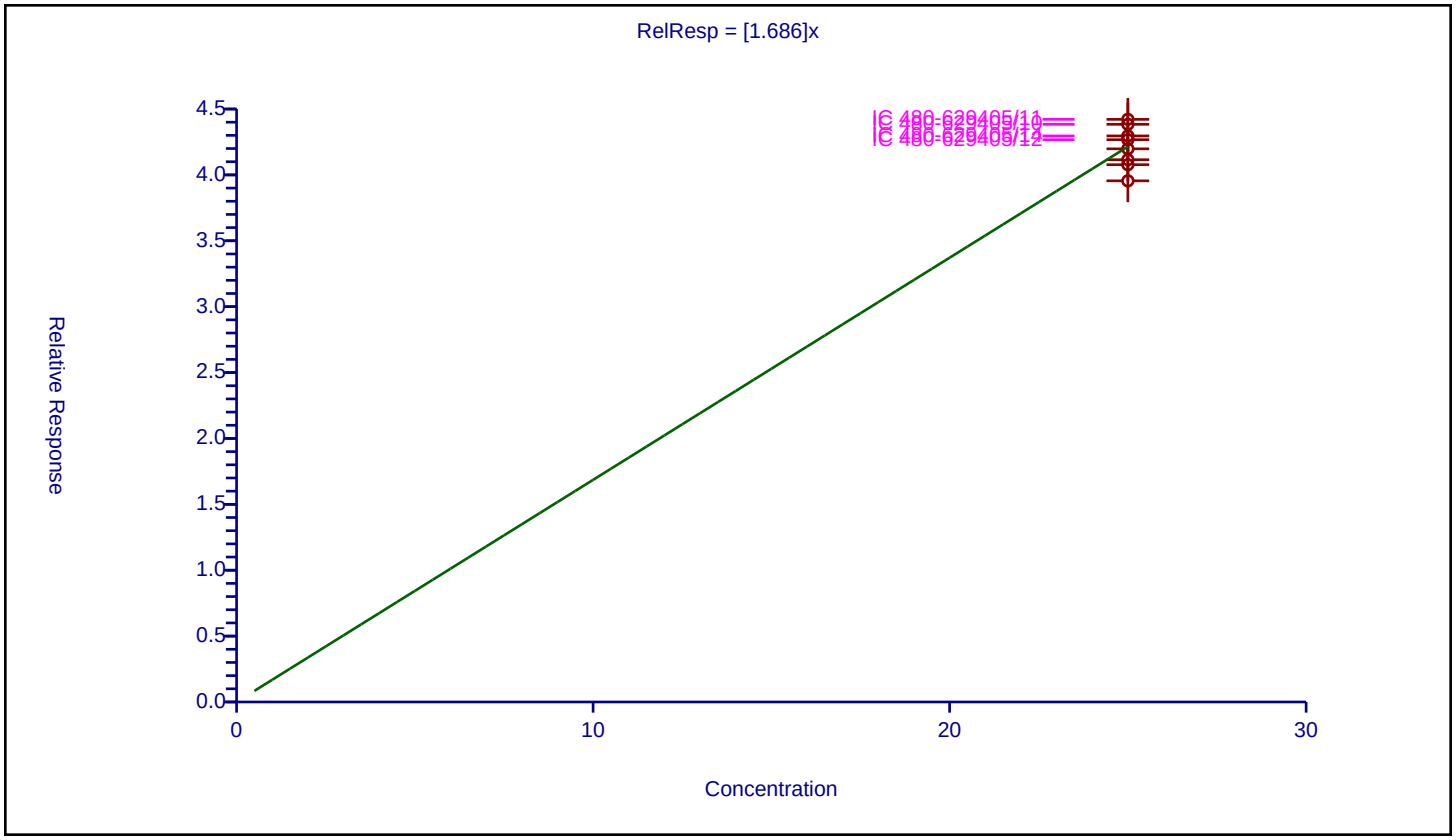
Curve Coefficients

Intercept:	0
Slope:	1.686

Error Coefficients

Standard Error:	283000
Relative Standard Error:	3.8
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	25.0	43.838283	25.0	150157.0	1.753531	Y
2	IC 480-629405/11	25.0	44.215759	25.0	149125.0	1.76863	Y
3	IC 480-629405/12	25.0	42.672895	25.0	155730.0	1.706916	Y
4	IC 480-629405/13	25.0	41.979323	25.0	160613.0	1.679173	Y
5	IC 480-629405/14	25.0	42.957597	25.0	153197.0	1.718304	Y
6	ICIS 480-629405/15	25.0	41.153232	25.0	157193.0	1.646129	Y
7	IC 480-629405/16	25.0	40.775068	25.0	159199.0	1.631003	Y
8	IC 480-629405/17	25.0	39.550035	25.0	170802.0	1.582001	Y



Calibration / Carbon tetrachloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

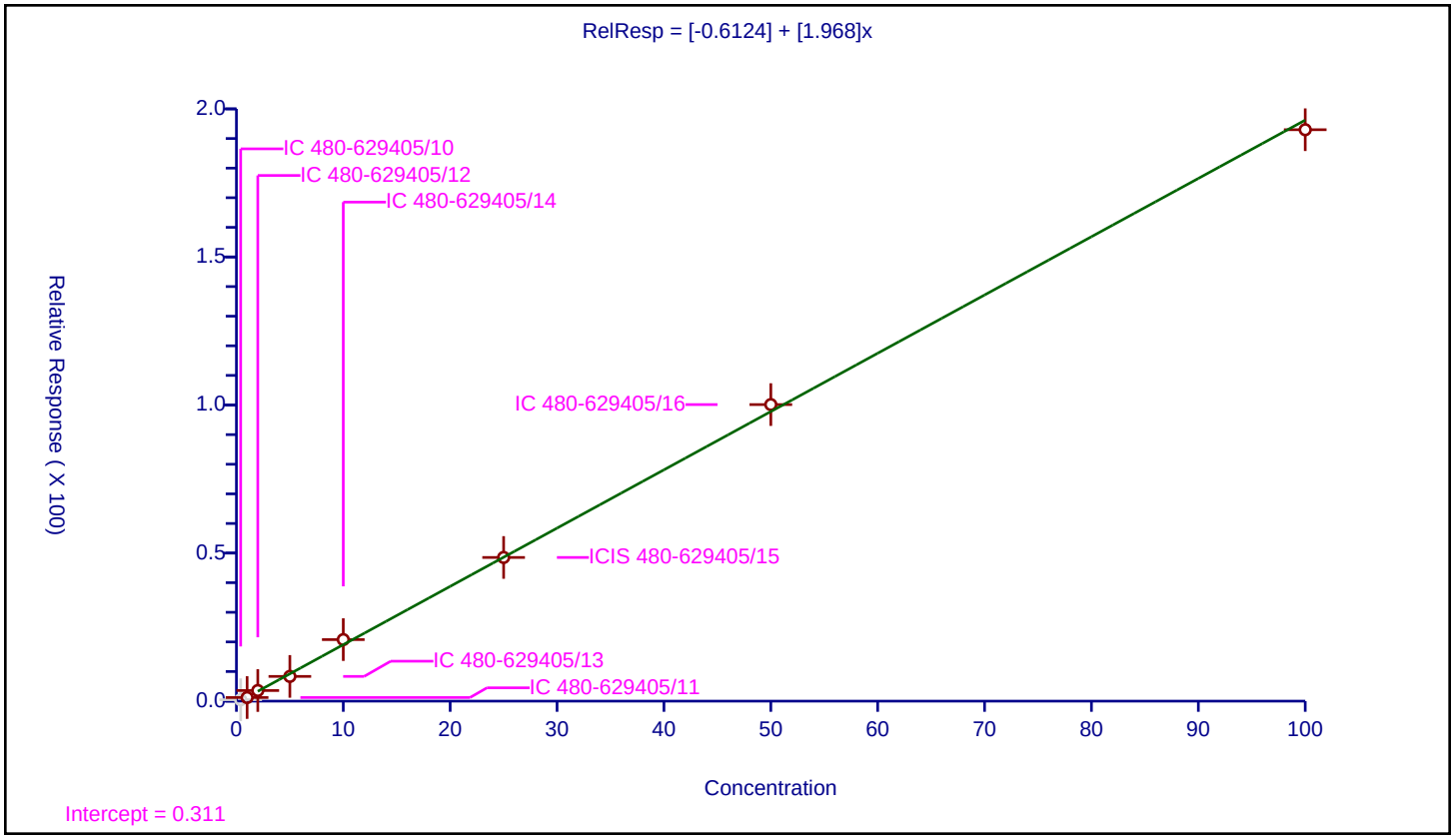
Curve Coefficients

Intercept:	-0.6124
Slope:	1.968

Error Coefficients

Standard Error:	672000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.478499	25.0	150157.0	1.196248	N
2	IC 480-629405/11	1.0	1.216597	25.0	149125.0	1.216597	Y
3	IC 480-629405/12	2.0	3.588101	25.0	155730.0	1.794051	Y
4	IC 480-629405/13	5.0	8.348795	25.0	160613.0	1.669759	Y
5	IC 480-629405/14	10.0	20.779617	25.0	153197.0	2.077962	Y
6	ICIS 480-629405/15	25.0	48.518859	25.0	157193.0	1.940754	Y
7	IC 480-629405/16	50.0	100.149498	25.0	159199.0	2.00299	Y
8	IC 480-629405/17	100.0	192.963344	25.0	170802.0	1.929633	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

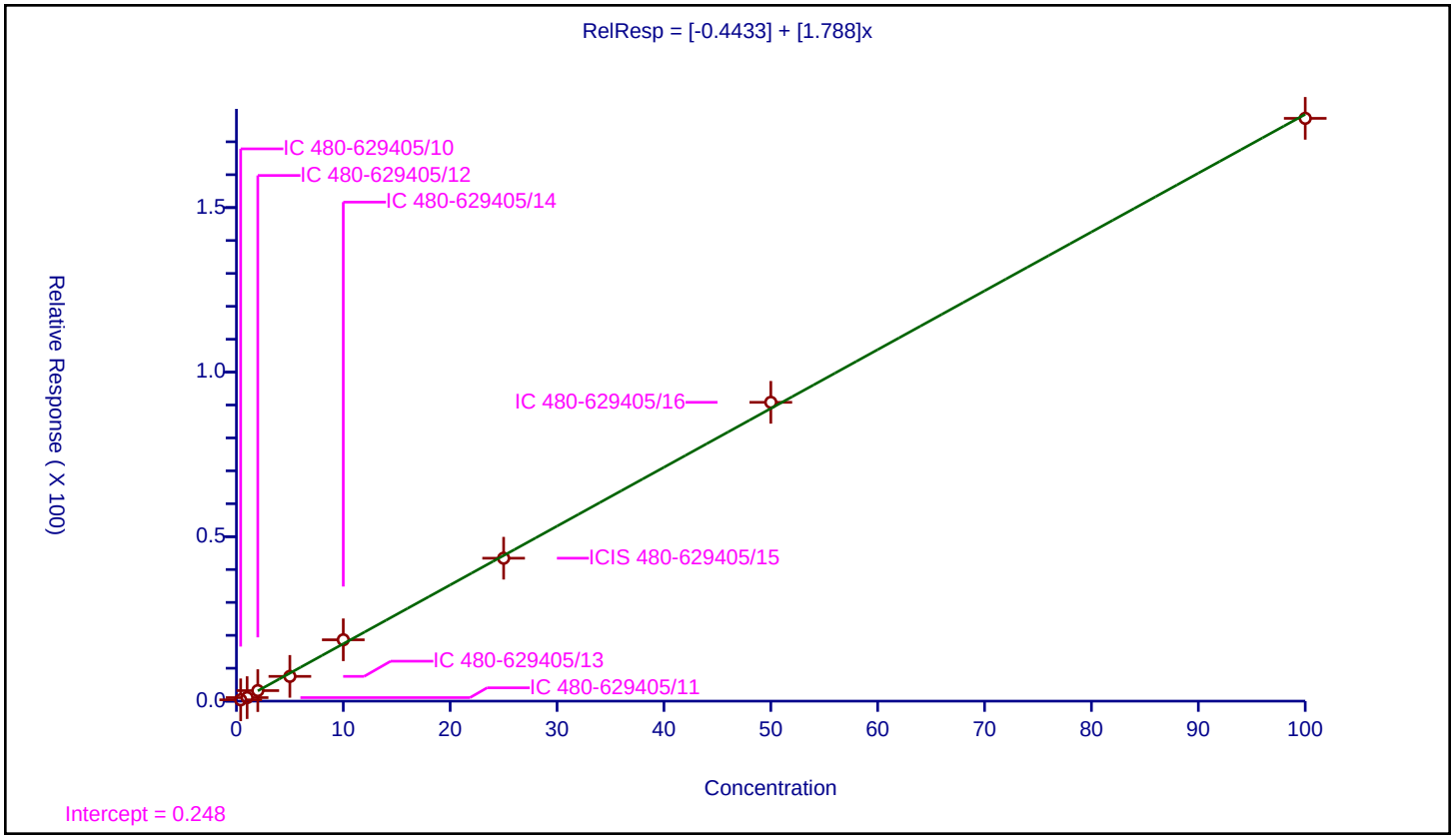
Curve Coefficients

Intercept:	-0.4433
Slope:	1.788

Error Coefficients

Standard Error:	561000
Relative Standard Error:	11.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.399249	25.0	150157.0	0.998122	Y
2	IC 480-629405/11	1.0	1.074602	25.0	149125.0	1.074602	Y
3	IC 480-629405/12	2.0	3.197682	25.0	155730.0	1.598841	Y
4	IC 480-629405/13	5.0	7.520873	25.0	160613.0	1.504175	Y
5	IC 480-629405/14	10.0	18.644784	25.0	153197.0	1.864478	Y
6	ICIS 480-629405/15	25.0	43.440707	25.0	157193.0	1.737628	Y
7	IC 480-629405/16	50.0	90.822964	25.0	159199.0	1.816459	Y
8	IC 480-629405/17	100.0	177.123219	25.0	170802.0	1.771232	Y



Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

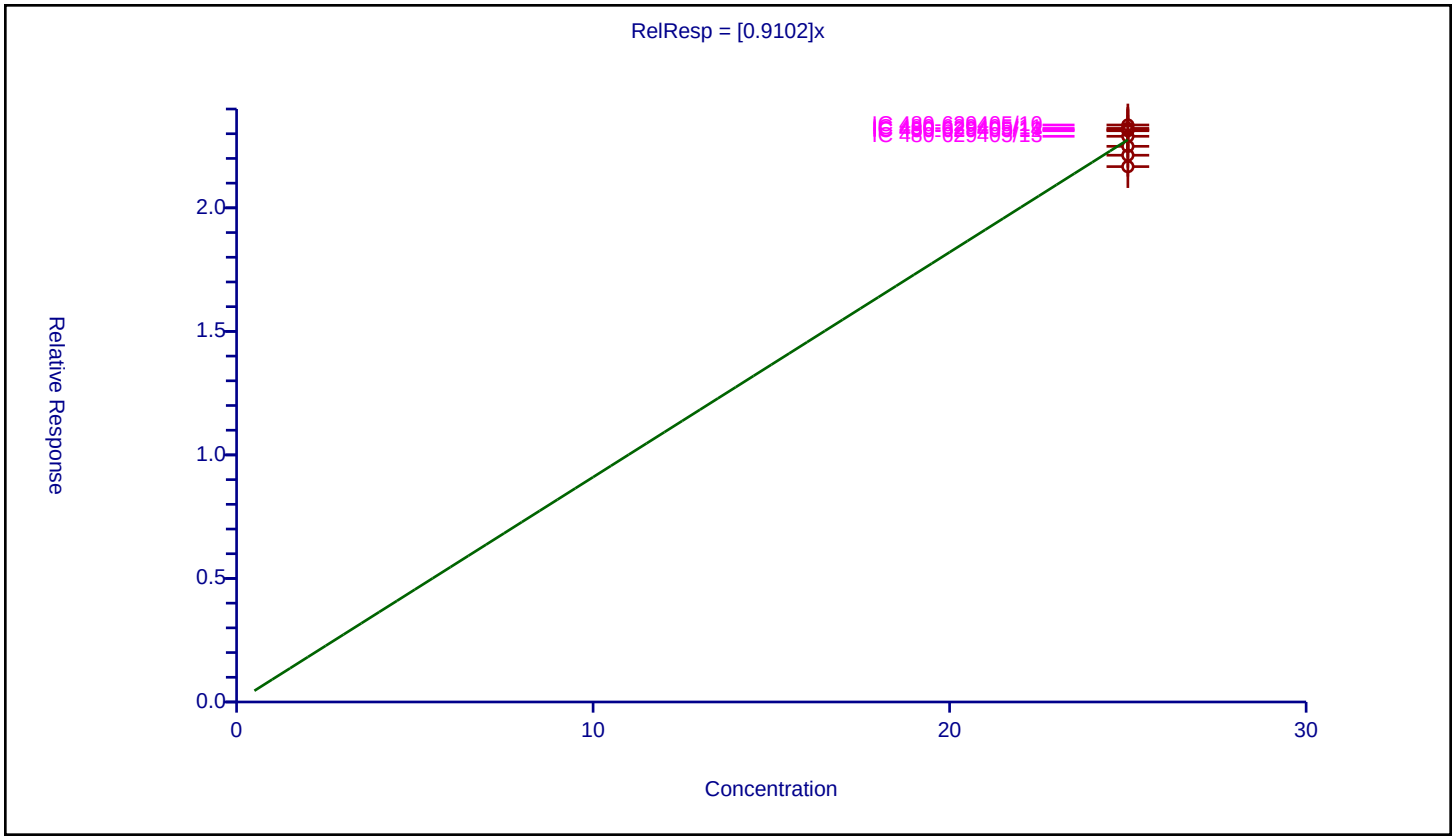
Curve Coefficients

Intercept:	0
Slope:	0.9102

Error Coefficients

Standard Error:	153000
Relative Standard Error:	2.6
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	25.0	23.353224	25.0	150157.0	0.934129	Y
2	IC 480-629405/11	25.0	23.215088	25.0	149125.0	0.928604	Y
3	IC 480-629405/12	25.0	23.120304	25.0	155730.0	0.924812	Y
4	IC 480-629405/13	25.0	22.895407	25.0	160613.0	0.915816	Y
5	IC 480-629405/14	25.0	23.157601	25.0	153197.0	0.926304	Y
6	ICIS 480-629405/15	25.0	22.490505	25.0	157193.0	0.89962	Y
7	IC 480-629405/16	25.0	22.129536	25.0	159199.0	0.885181	Y
8	IC 480-629405/17	25.0	21.669096	25.0	170802.0	0.866764	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

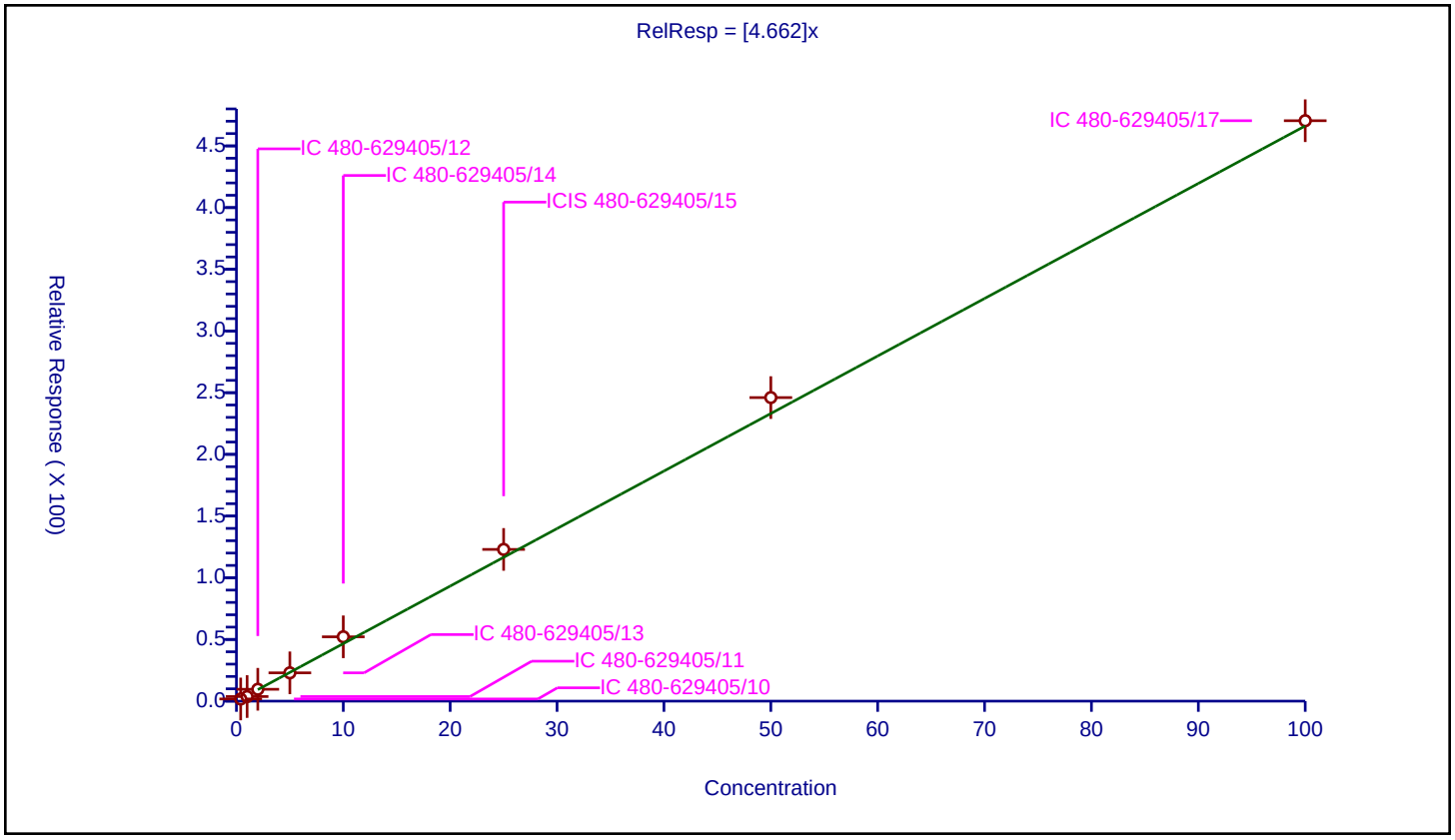
Curve Coefficients

Intercept:	0
Slope:	4.662

Error Coefficients

Standard Error:	1390000
Relative Standard Error:	9.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	1.763488	25.0	150157.0	4.408719	Y
2	IC 480-629405/11	1.0	3.733613	25.0	149125.0	3.733613	Y
3	IC 480-629405/12	2.0	9.613594	25.0	155730.0	4.806797	Y
4	IC 480-629405/13	5.0	22.940858	25.0	160613.0	4.588172	Y
5	IC 480-629405/14	10.0	52.14593	25.0	153197.0	5.214593	Y
6	ICIS 480-629405/15	25.0	122.974624	25.0	157193.0	4.918985	Y
7	IC 480-629405/16	50.0	246.033424	25.0	159199.0	4.920668	Y
8	IC 480-629405/17	100.0	470.40667	25.0	170802.0	4.704067	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

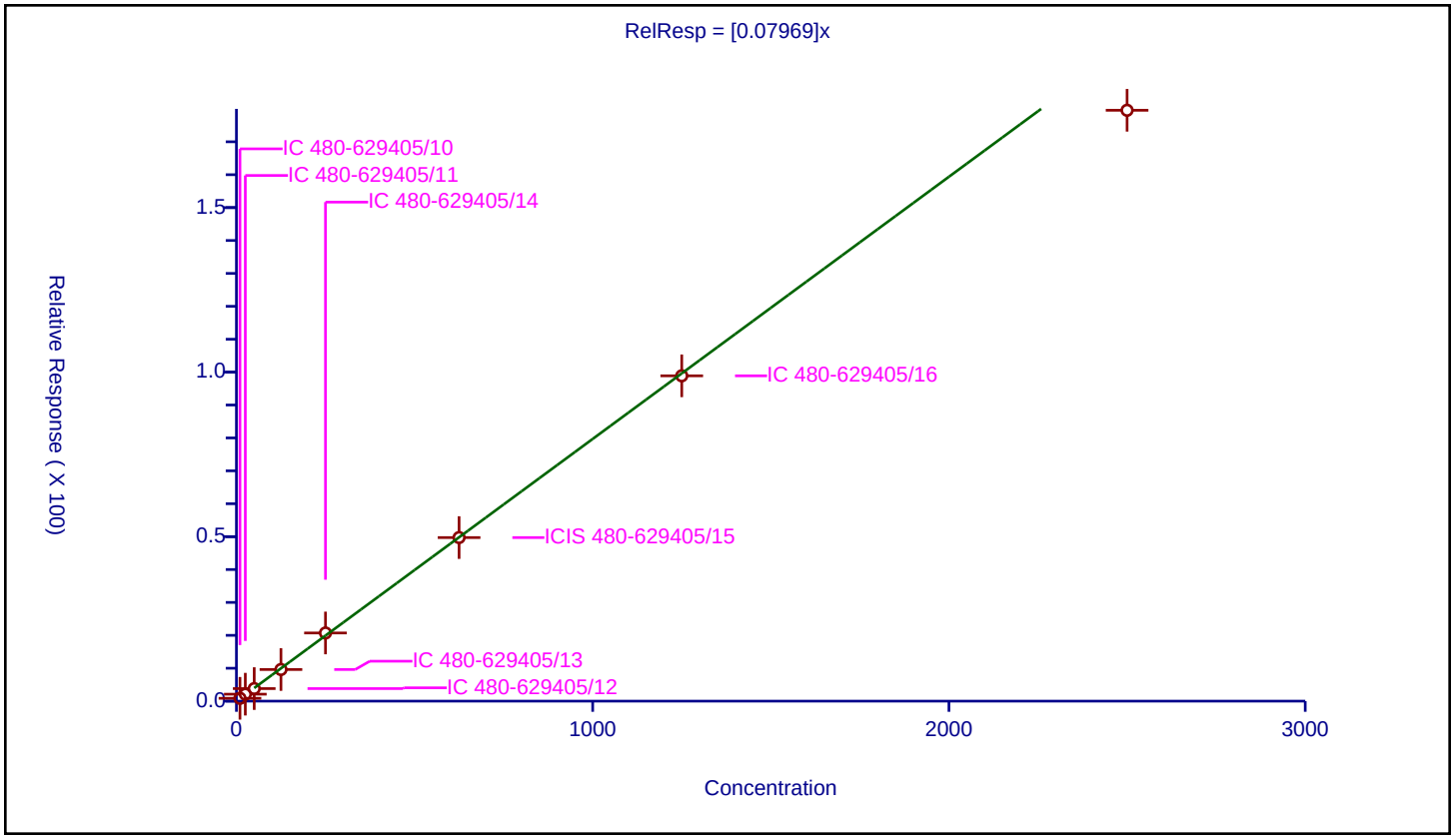
Curve Coefficients

Intercept:	0
Slope:	0.07969

Error Coefficients

Standard Error:	537000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	10.0	0.86293	25.0	150157.0	0.086293	Y
2	IC 480-629405/11	25.0	2.113328	25.0	149125.0	0.084533	Y
3	IC 480-629405/12	50.0	3.820073	25.0	155730.0	0.076401	Y
4	IC 480-629405/13	125.0	9.614415	25.0	160613.0	0.076915	Y
5	IC 480-629405/14	250.0	20.717279	25.0	153197.0	0.082869	Y
6	ICIS 480-629405/15	625.0	49.718022	25.0	157193.0	0.079549	Y
7	IC 480-629405/16	1250.0	98.870125	25.0	159199.0	0.079096	Y
8	IC 480-629405/17	2500.0	179.579425	25.0	170802.0	0.071832	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

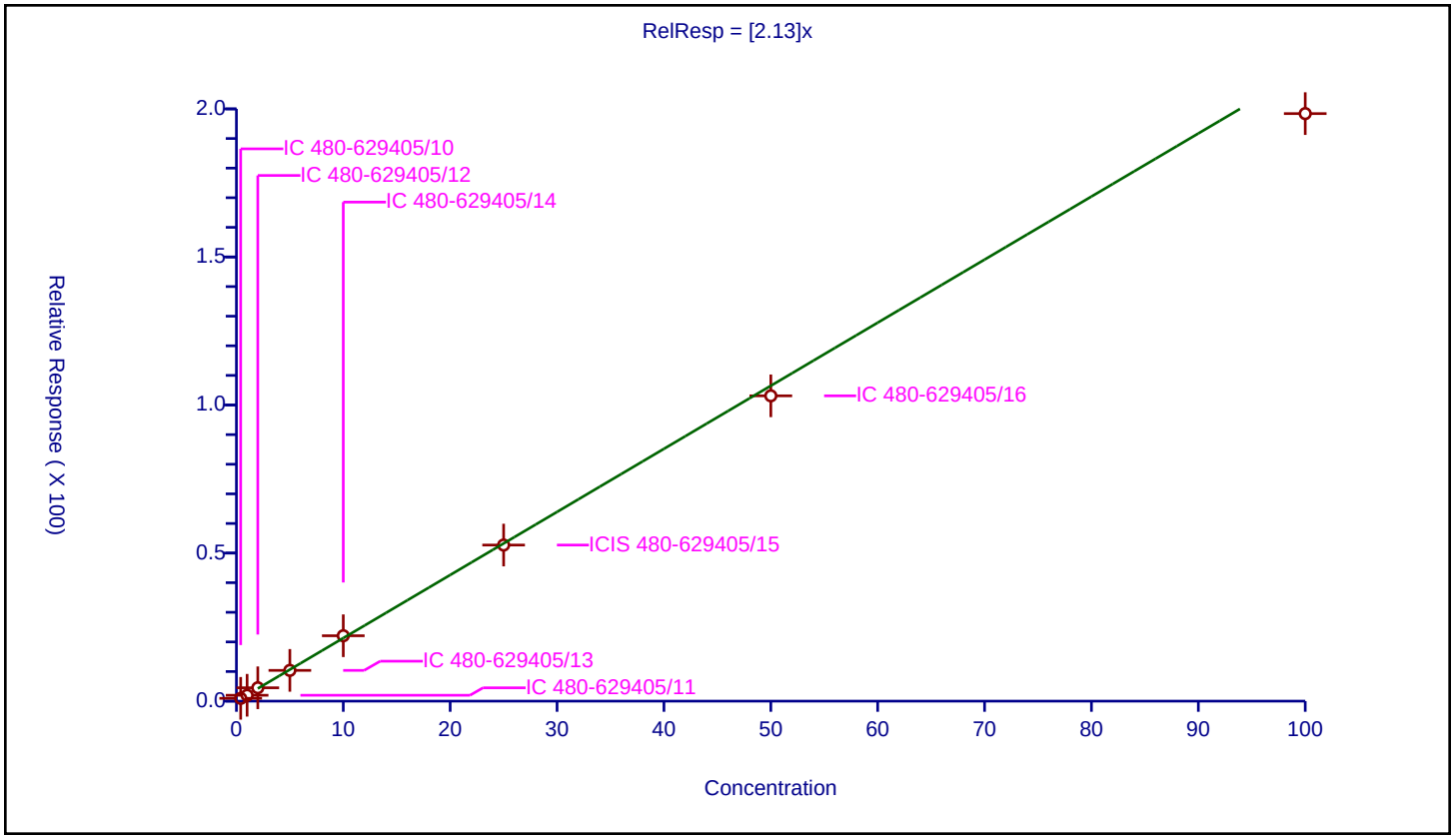
Curve Coefficients

Intercept:	0
Slope:	2.13

Error Coefficients

Standard Error:	586000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.944678	25.0	150157.0	2.361695	Y
2	IC 480-629405/11	1.0	1.983906	25.0	149125.0	1.983906	Y
3	IC 480-629405/12	2.0	4.508926	25.0	155730.0	2.254463	Y
4	IC 480-629405/13	5.0	10.386768	25.0	160613.0	2.077354	Y
5	IC 480-629405/14	10.0	22.083494	25.0	153197.0	2.208349	Y
6	ICIS 480-629405/15	25.0	52.713861	25.0	157193.0	2.108554	Y
7	IC 480-629405/16	50.0	103.103506	25.0	159199.0	2.06207	Y
8	IC 480-629405/17	100.0	198.409269	25.0	170802.0	1.984093	Y



Calibration / n-Heptane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

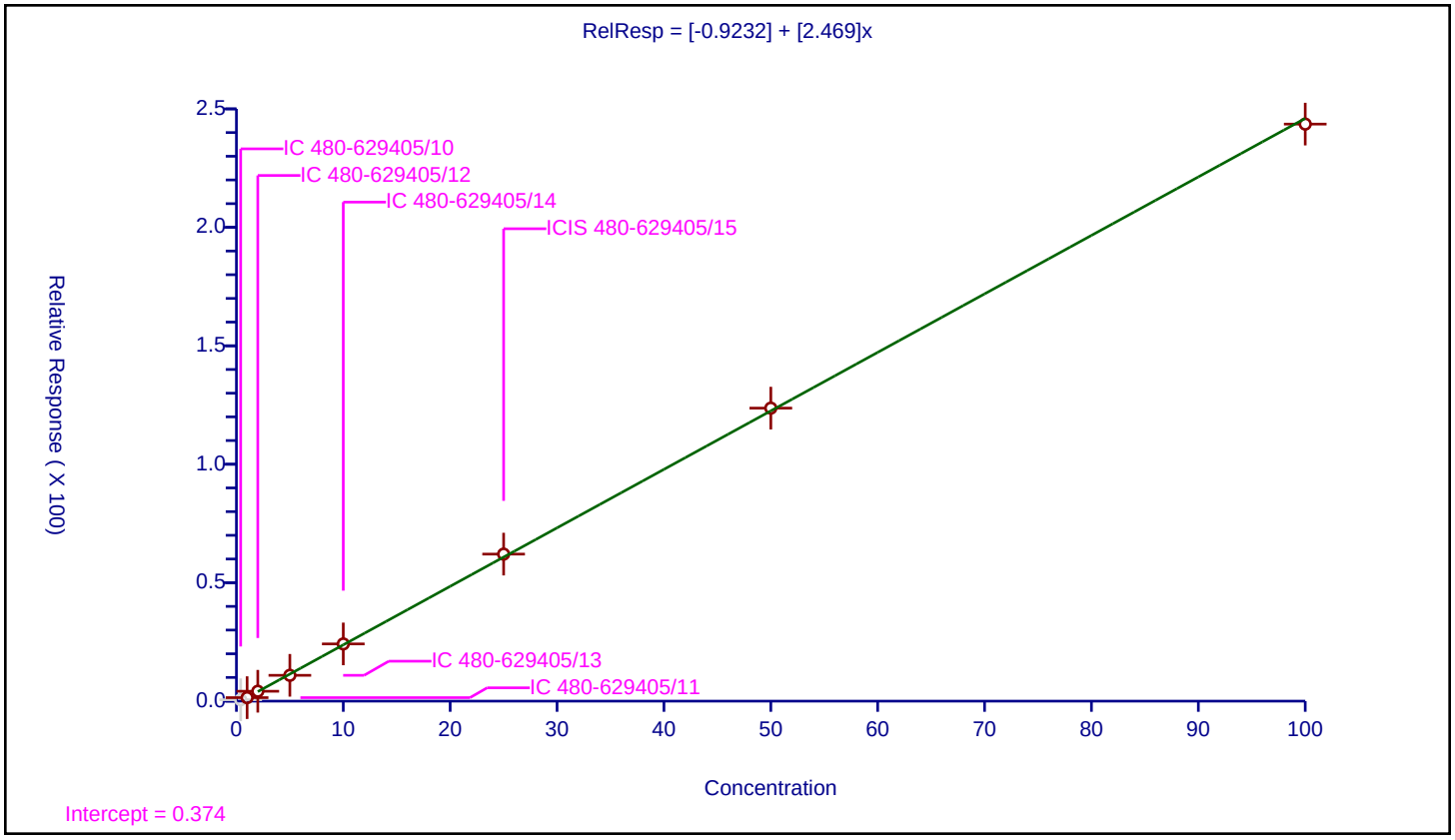
Curve Coefficients

Intercept:	-0.9232
Slope:	2.469

Error Coefficients

Standard Error:	845000
Relative Standard Error:	2.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.592213	25.0	150157.0	1.480534	N
2	IC 480-629405/11	1.0	1.481811	25.0	149125.0	1.481811	Y
3	IC 480-629405/12	2.0	4.171804	25.0	155730.0	2.085902	Y
4	IC 480-629405/13	5.0	10.90276	25.0	160613.0	2.180552	Y
5	IC 480-629405/14	10.0	24.160068	25.0	153197.0	2.416007	Y
6	ICIS 480-629405/15	25.0	62.064469	25.0	157193.0	2.482579	Y
7	IC 480-629405/16	50.0	123.689847	25.0	159199.0	2.473797	Y
8	IC 480-629405/17	100.0	243.580432	25.0	170802.0	2.435804	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

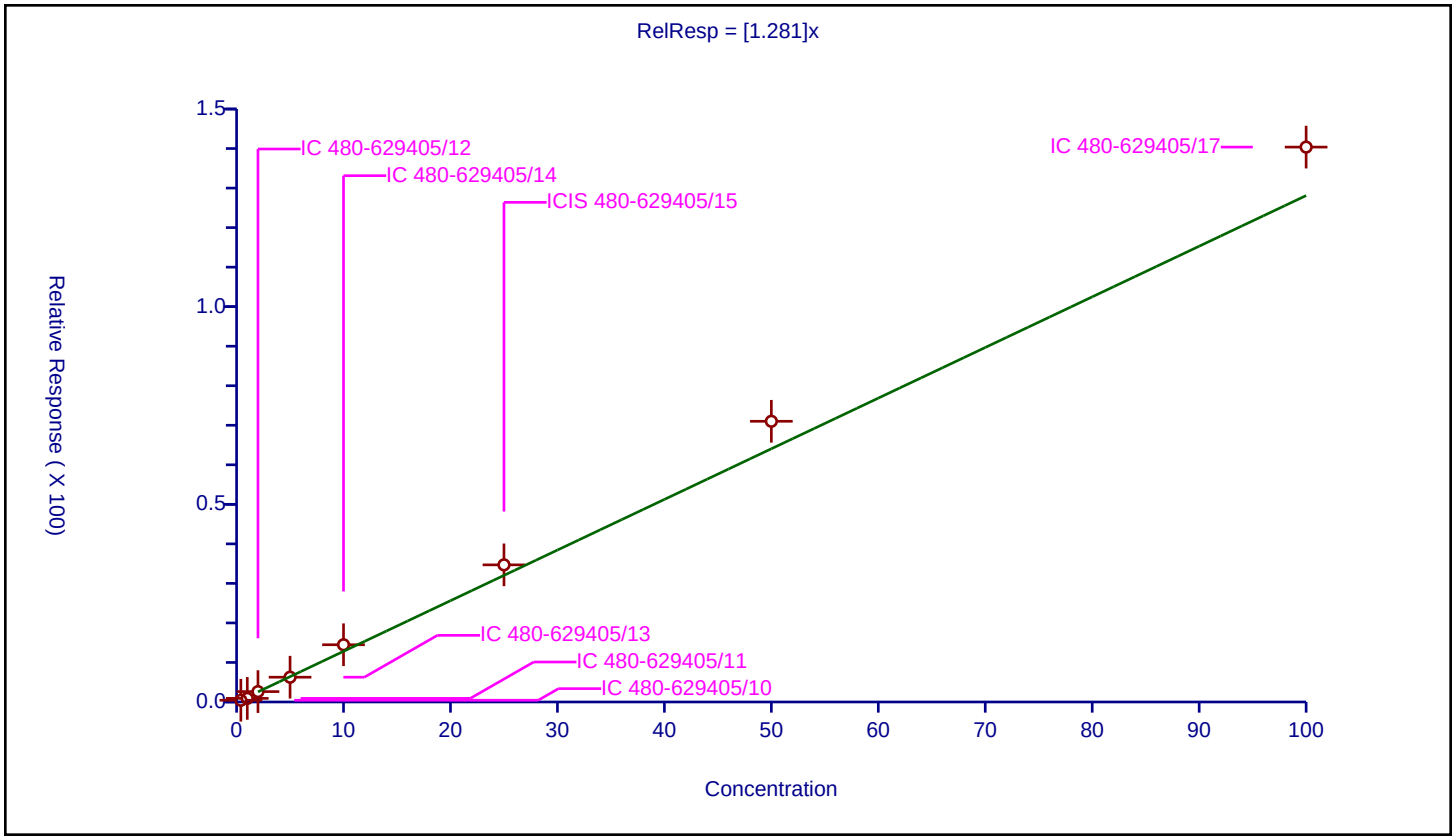
Curve Coefficients

Intercept:	0
Slope:	1.281

Error Coefficients

Standard Error:	411000
Relative Standard Error:	14.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.443369	25.0	150157.0	1.108423	Y
2	IC 480-629405/11	1.0	0.913998	25.0	149125.0	0.913998	Y
3	IC 480-629405/12	2.0	2.625538	25.0	155730.0	1.312769	Y
4	IC 480-629405/13	5.0	6.267239	25.0	160613.0	1.253448	Y
5	IC 480-629405/14	10.0	14.48217	25.0	153197.0	1.448217	Y
6	ICIS 480-629405/15	25.0	34.686818	25.0	157193.0	1.387473	Y
7	IC 480-629405/16	50.0	71.011124	25.0	159199.0	1.420222	Y
8	IC 480-629405/17	100.0	140.369843	25.0	170802.0	1.403698	Y



Calibration / Methylcyclohexane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

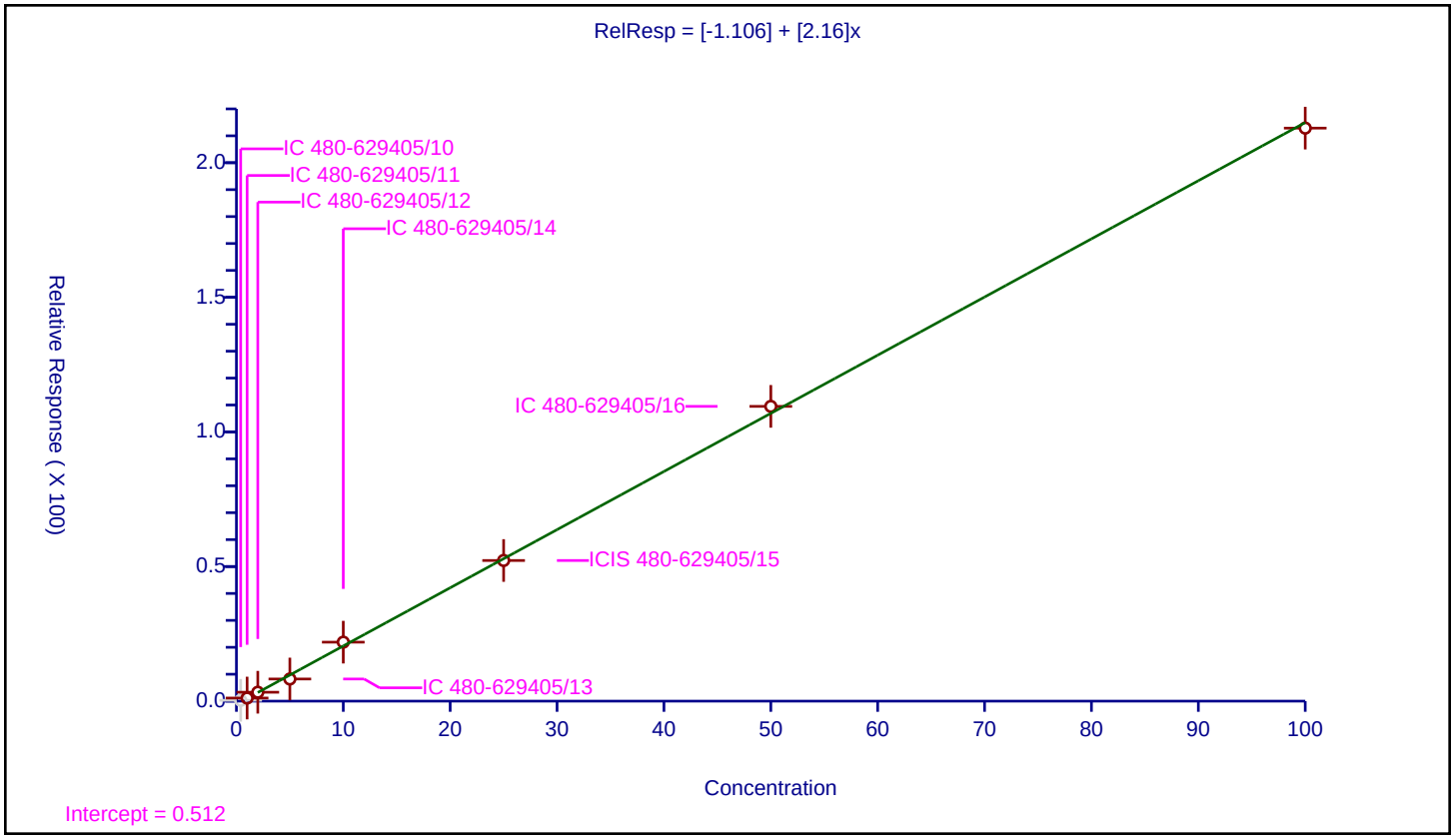
Curve Coefficients

Intercept:	-1.106
Slope:	2.16

Error Coefficients

Standard Error:	739000
Relative Standard Error:	7.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.314171	25.0	150157.0	0.785428	N
2	IC 480-629405/11	1.0	1.155909	25.0	149125.0	1.155909	Y
3	IC 480-629405/12	2.0	3.307166	25.0	155730.0	1.653583	Y
4	IC 480-629405/13	5.0	8.227229	25.0	160613.0	1.645446	Y
5	IC 480-629405/14	10.0	21.911656	25.0	153197.0	2.191166	Y
6	ICIS 480-629405/15	25.0	52.248033	25.0	157193.0	2.089921	Y
7	IC 480-629405/16	50.0	109.493621	25.0	159199.0	2.189872	Y
8	IC 480-629405/17	100.0	212.854943	25.0	170802.0	2.128549	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

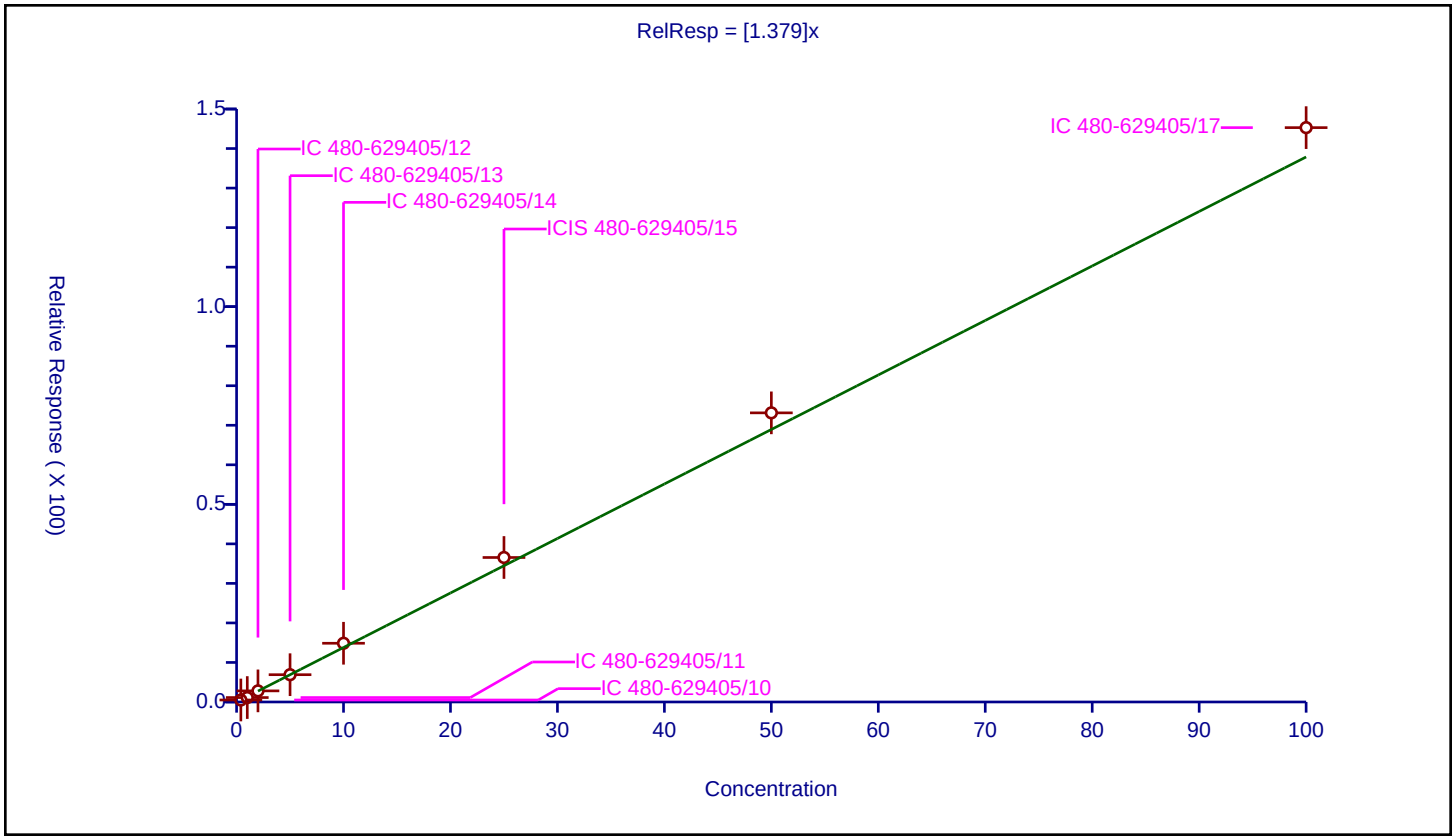
Curve Coefficients

Intercept:	0
Slope:	1.379

Error Coefficients

Standard Error:	425000
Relative Standard Error:	9.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.502807	25.0	150157.0	1.257018	Y
2	IC 480-629405/11	1.0	1.123889	25.0	149125.0	1.123889	Y
3	IC 480-629405/12	2.0	2.810152	25.0	155730.0	1.405076	Y
4	IC 480-629405/13	5.0	6.901372	25.0	160613.0	1.380274	Y
5	IC 480-629405/14	10.0	14.854077	25.0	153197.0	1.485408	Y
6	ICIS 480-629405/15	25.0	36.553791	25.0	157193.0	1.462152	Y
7	IC 480-629405/16	50.0	73.141948	25.0	159199.0	1.462839	Y
8	IC 480-629405/17	100.0	145.290453	25.0	170802.0	1.452905	Y



Calibration / 1,4-Dioxane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

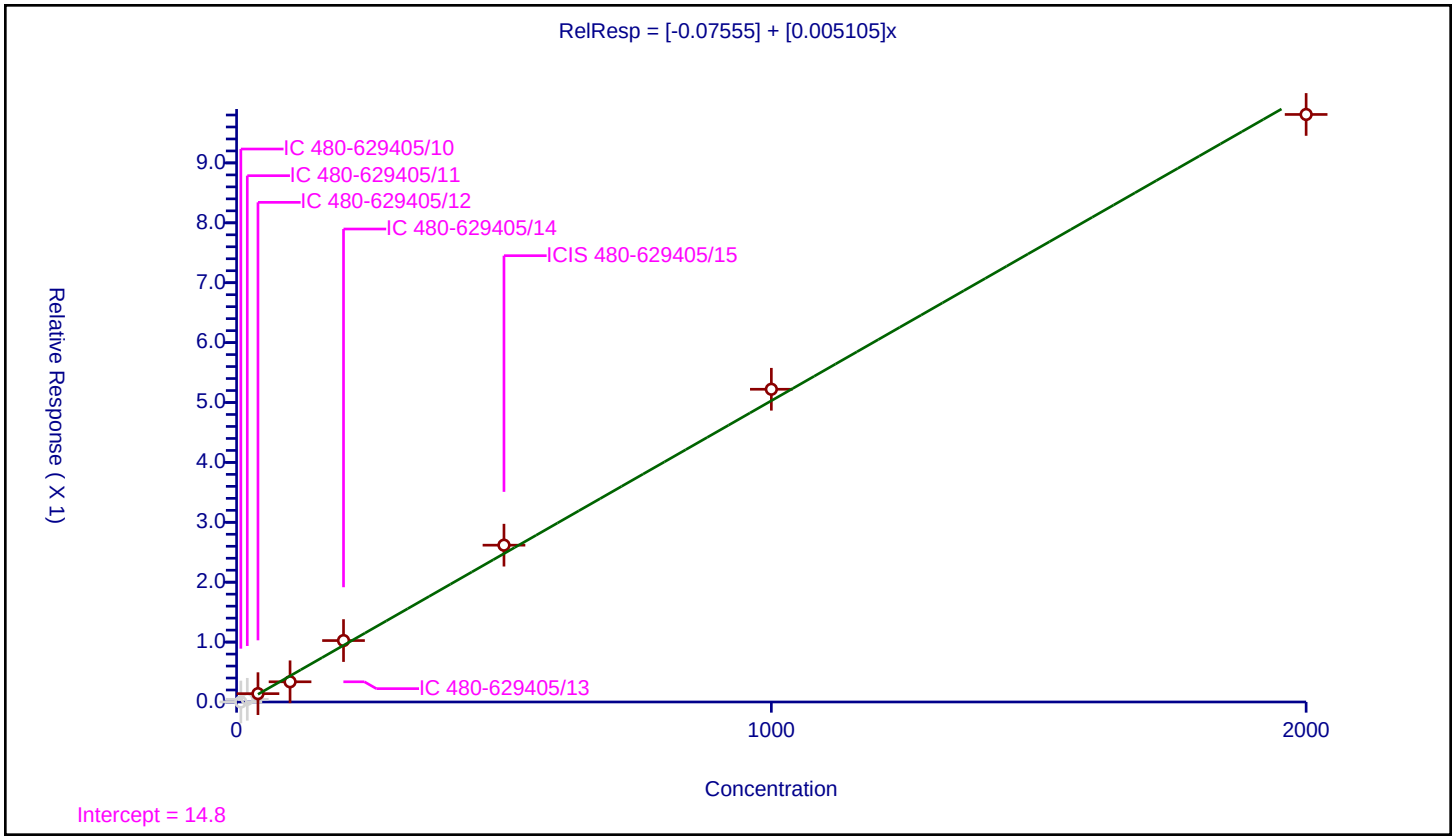
Curve Coefficients

Intercept:	-0.07555
Slope:	0.005105

Error Coefficients

Standard Error:	75000
Relative Standard Error:	11.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	8.0	0.0	25.0	289074.0	0.0	N
2	IC 480-629405/11	20.0	0.044658	25.0	280462.0	0.002233	N
3	IC 480-629405/12	40.0	0.139292	25.0	295064.0	0.003482	Y
4	IC 480-629405/13	100.0	0.337349	25.0	307619.0	0.003373	Y
5	IC 480-629405/14	200.0	1.025377	25.0	279385.0	0.005127	Y
6	ICIS 480-629405/15	500.0	2.617998	25.0	301108.0	0.005236	Y
7	IC 480-629405/16	1000.0	5.221245	25.0	304640.0	0.005221	Y
8	IC 480-629405/17	2000.0	9.809353	25.0	335542.0	0.004905	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

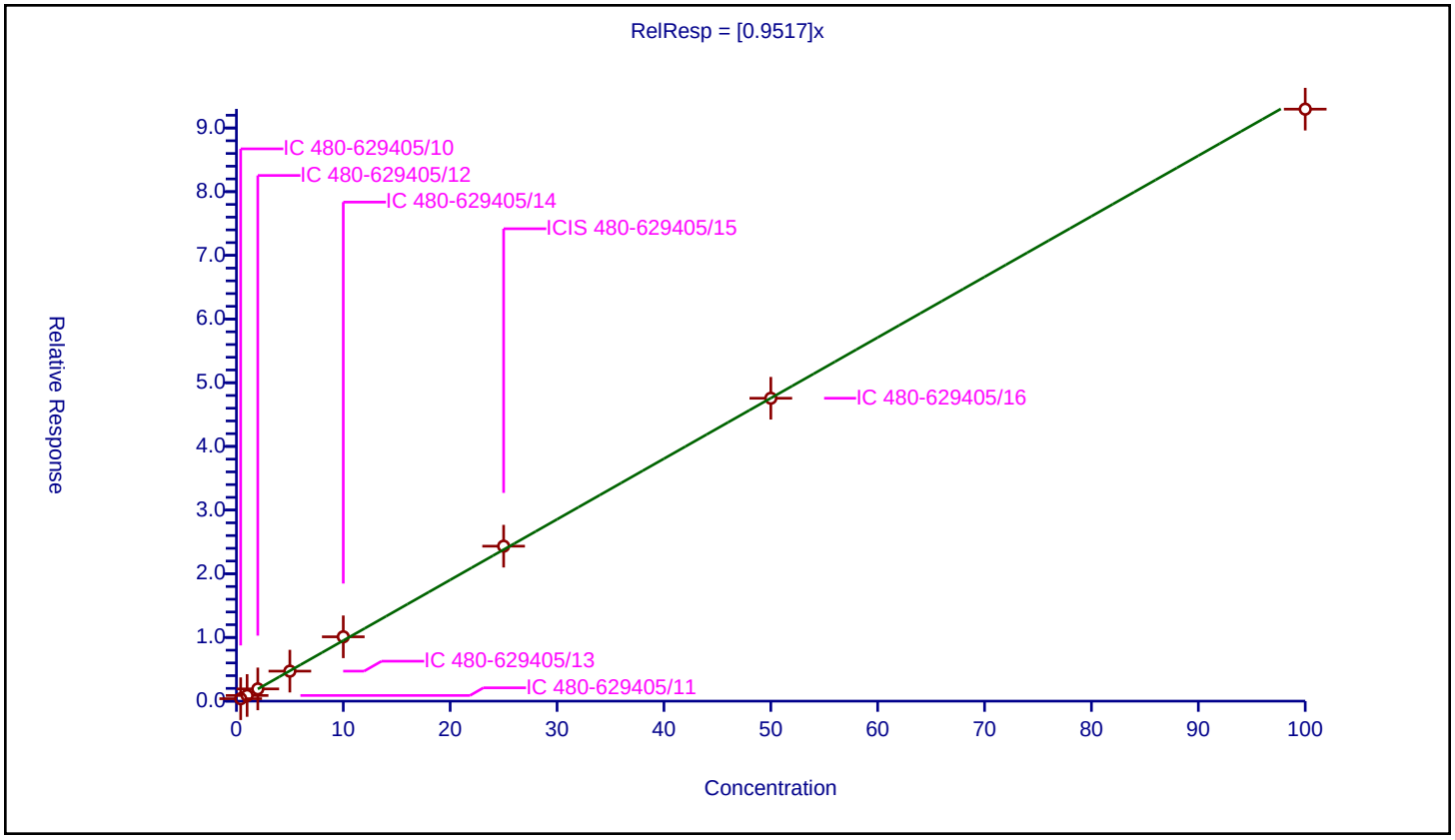
Curve Coefficients

Intercept:	0
Slope:	0.9517

Error Coefficients

Standard Error:	273000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.383099	25.0	150157.0	0.957748	Y
2	IC 480-629405/11	1.0	0.889187	25.0	149125.0	0.889187	Y
3	IC 480-629405/12	2.0	1.920311	25.0	155730.0	0.960155	Y
4	IC 480-629405/13	5.0	4.709457	25.0	160613.0	0.941891	Y
5	IC 480-629405/14	10.0	10.10431	25.0	153197.0	1.010431	Y
6	ICIS 480-629405/15	25.0	24.334099	25.0	157193.0	0.973364	Y
7	IC 480-629405/16	50.0	47.561857	25.0	159199.0	0.951237	Y
8	IC 480-629405/17	100.0	92.959392	25.0	170802.0	0.929594	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

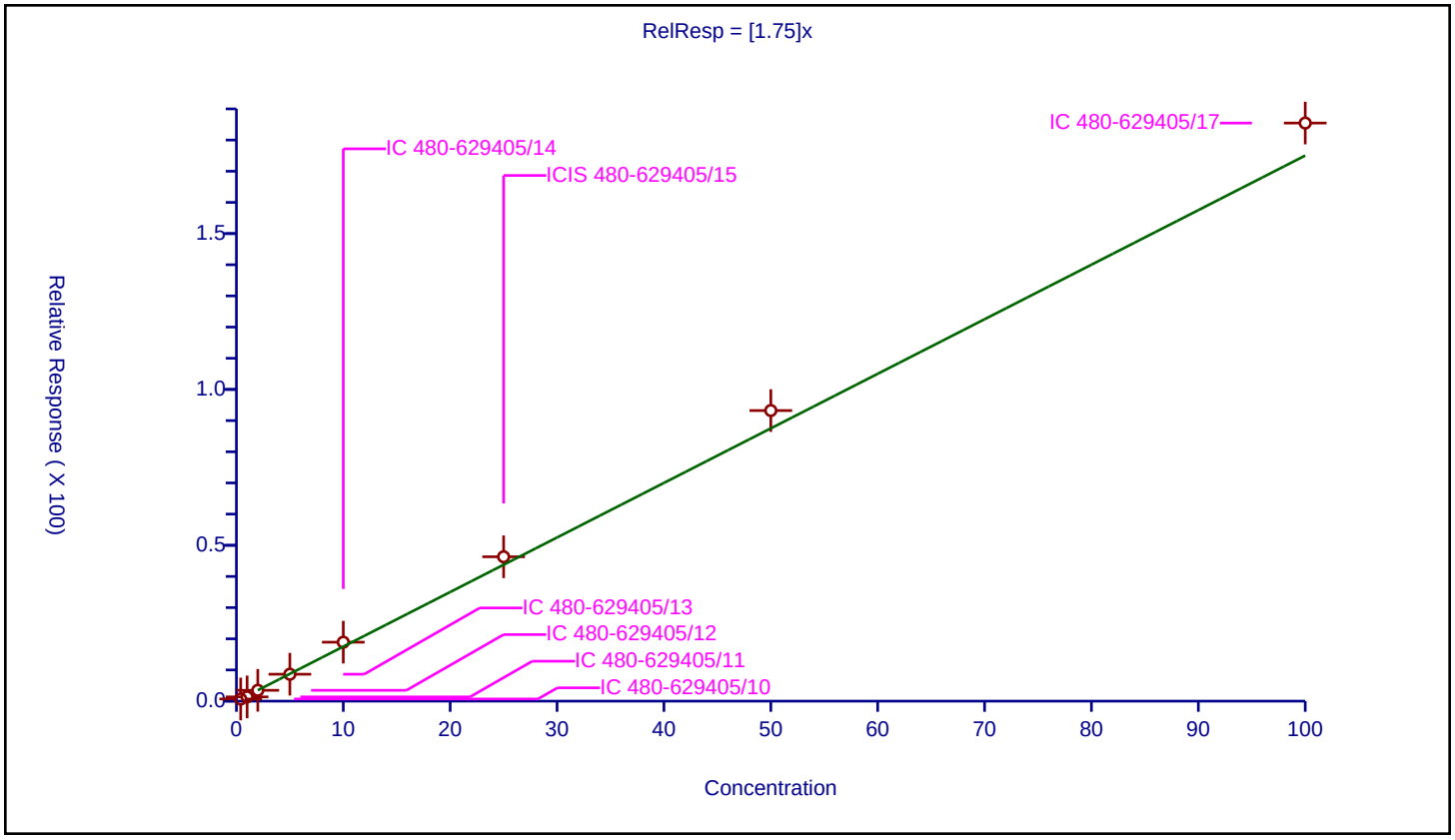
Curve Coefficients

Intercept:	0
Slope:	1.75

Error Coefficients

Standard Error:	542000
Relative Standard Error:	9.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.68495	25.0	150157.0	1.712374	Y
2	IC 480-629405/11	1.0	1.361274	25.0	149125.0	1.361274	Y
3	IC 480-629405/12	2.0	3.475246	25.0	155730.0	1.737623	Y
4	IC 480-629405/13	5.0	8.637999	25.0	160613.0	1.7276	Y
5	IC 480-629405/14	10.0	18.909802	25.0	153197.0	1.89098	Y
6	ICIS 480-629405/15	25.0	46.314244	25.0	157193.0	1.85257	Y
7	IC 480-629405/16	50.0	93.227816	25.0	159199.0	1.864556	Y
8	IC 480-629405/17	100.0	185.458455	25.0	170802.0	1.854585	Y



Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

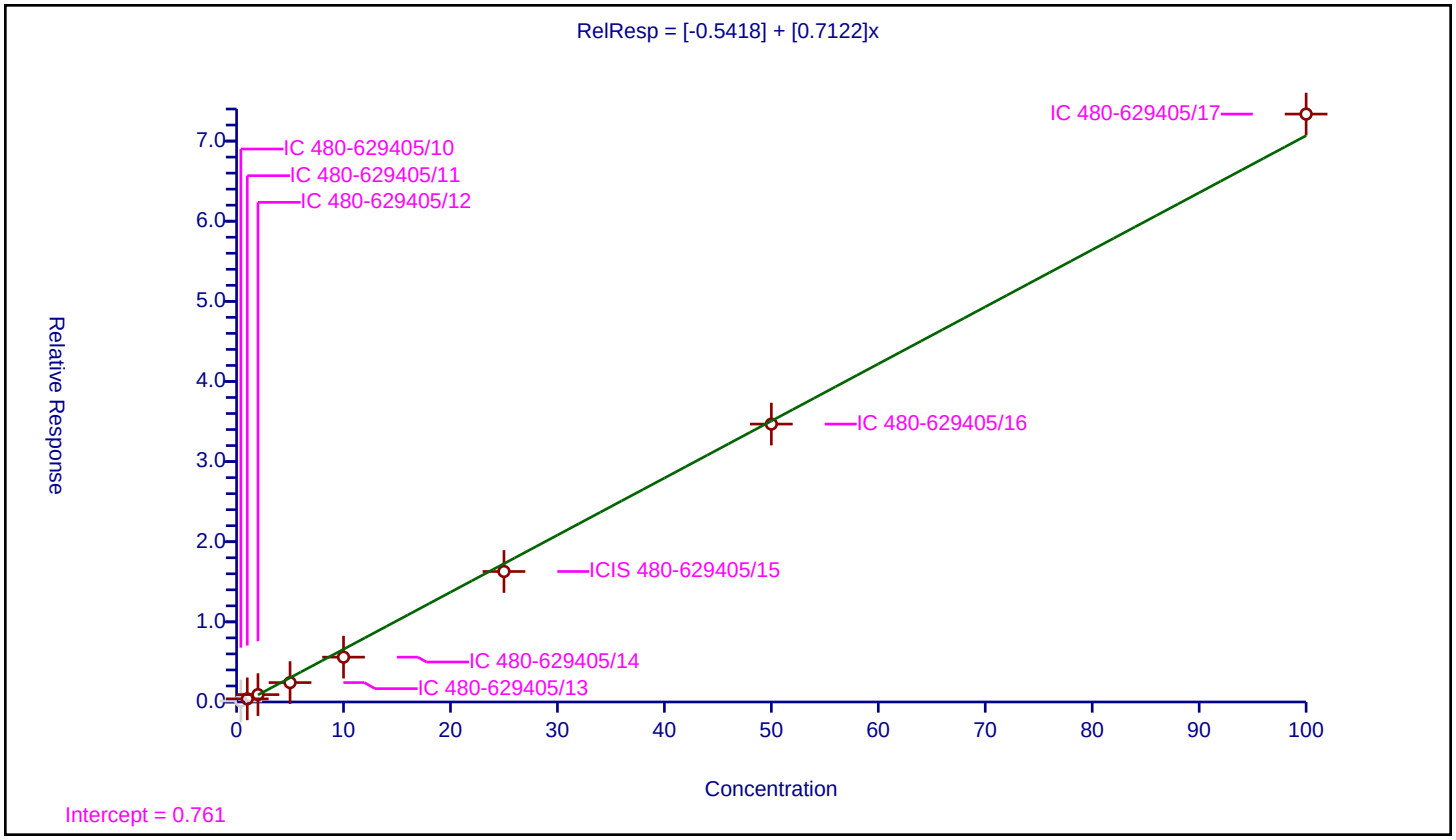
Curve Coefficients

Intercept:	-0.5418
Slope:	0.7122

Error Coefficients

Standard Error:	250000
Relative Standard Error:	17.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.126534	25.0	150157.0	0.316336	N
2	IC 480-629405/11	1.0	0.389606	25.0	149125.0	0.389606	Y
3	IC 480-629405/12	2.0	0.91938	25.0	155730.0	0.45969	Y
4	IC 480-629405/13	5.0	2.422593	25.0	160613.0	0.484519	Y
5	IC 480-629405/14	10.0	5.597368	25.0	153197.0	0.559737	Y
6	ICIS 480-629405/15	25.0	16.285553	25.0	157193.0	0.651422	Y
7	IC 480-629405/16	50.0	34.681436	25.0	159199.0	0.693629	Y
8	IC 480-629405/17	100.0	73.36814	25.0	170802.0	0.733681	Y



Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

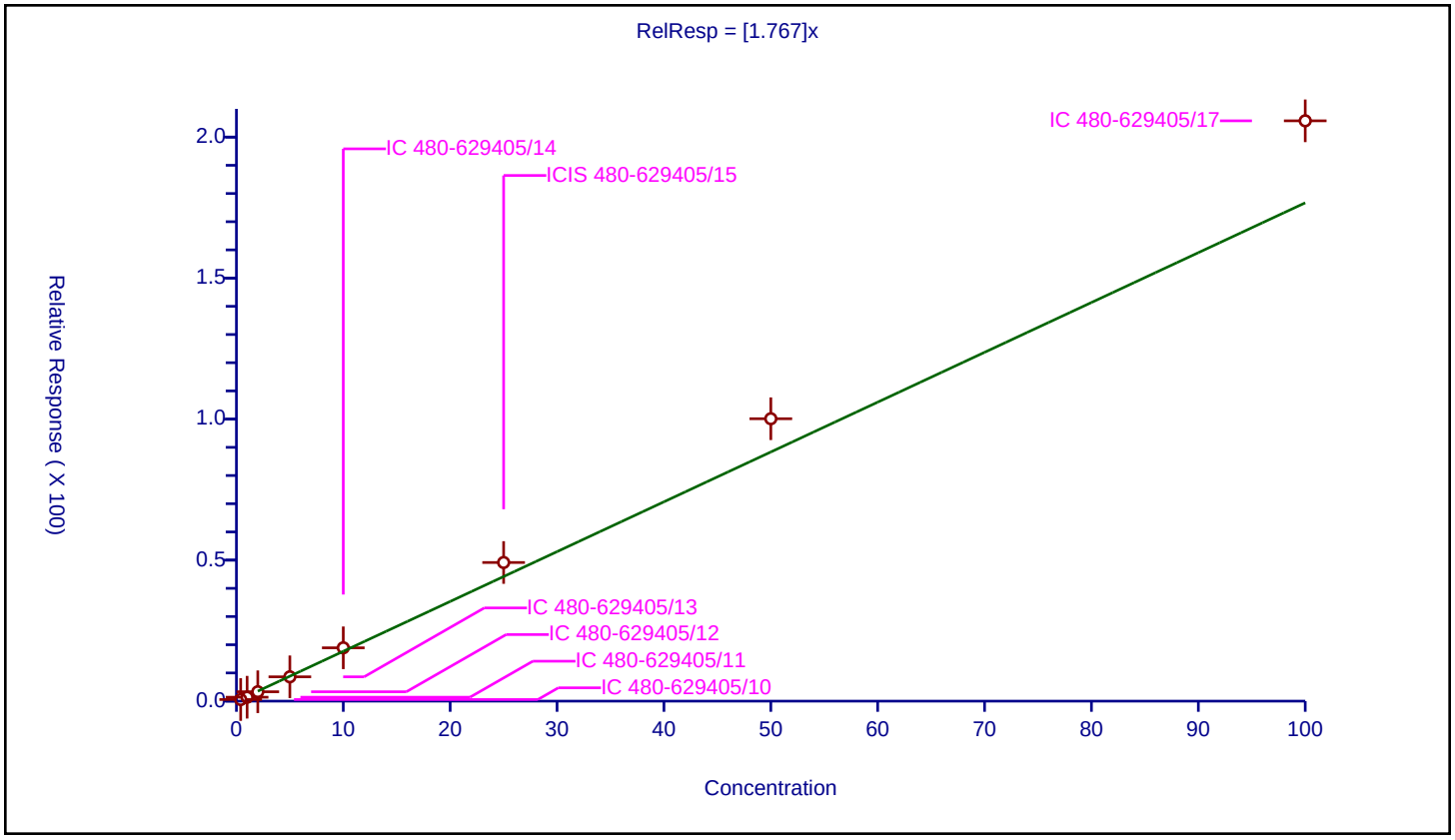
Curve Coefficients

Intercept:	0
Slope:	1.767

Error Coefficients

Standard Error:	597000
Relative Standard Error:	14.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.575564	25.0	150157.0	1.438911	Y
2	IC 480-629405/11	1.0	1.390109	25.0	149125.0	1.390109	Y
3	IC 480-629405/12	2.0	3.325307	25.0	155730.0	1.662653	Y
4	IC 480-629405/13	5.0	8.627415	25.0	160613.0	1.725483	Y
5	IC 480-629405/14	10.0	18.912413	25.0	153197.0	1.891241	Y
6	ICIS 480-629405/15	25.0	49.162176	25.0	157193.0	1.966487	Y
7	IC 480-629405/16	50.0	100.135522	25.0	159199.0	2.00271	Y
8	IC 480-629405/17	100.0	205.770278	25.0	170802.0	2.057703	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

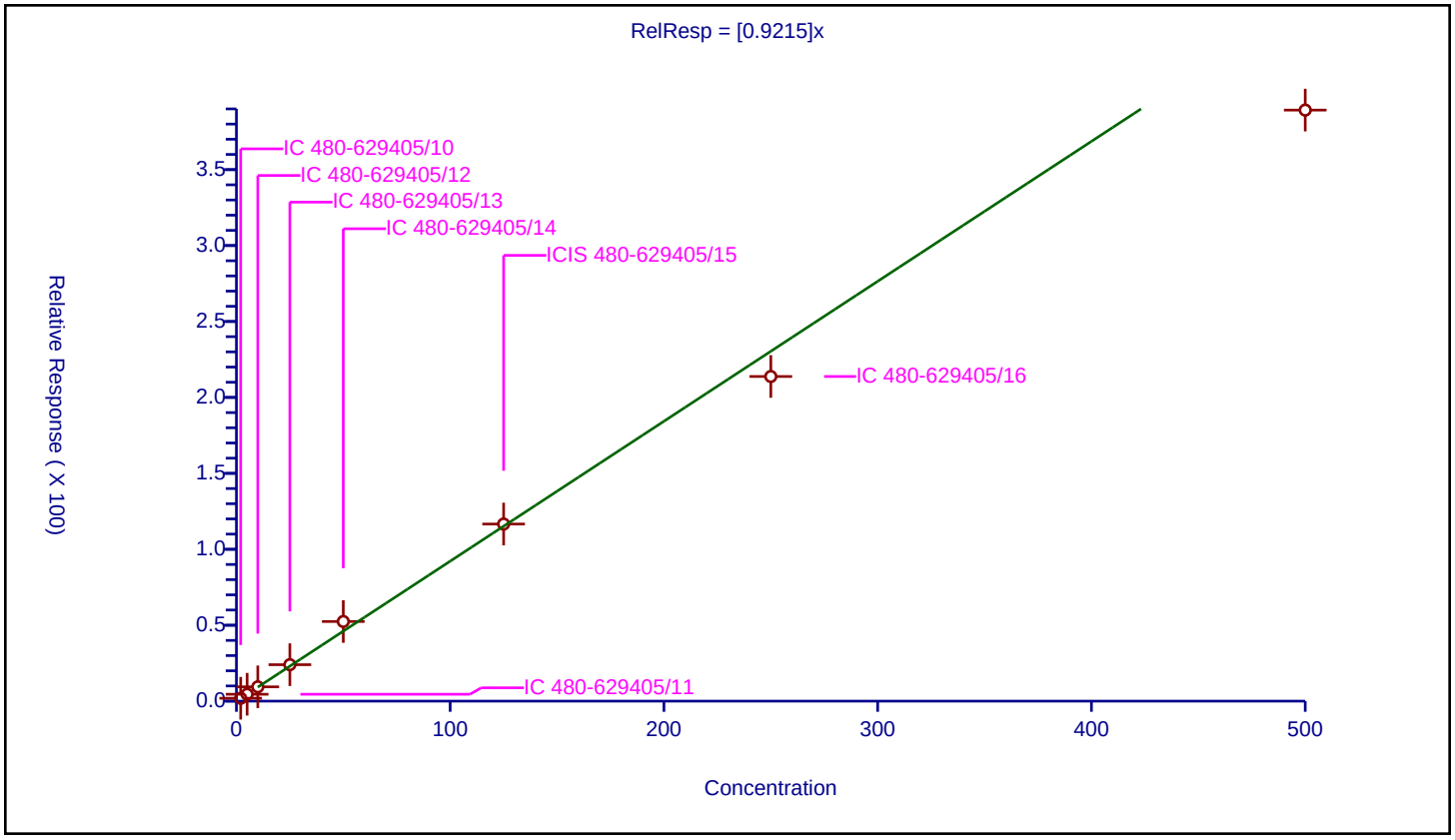
Curve Coefficients

Intercept:	0
Slope:	0.9215

Error Coefficients

Standard Error:	2280000
Relative Standard Error:	8.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	2.0	1.897611	25.0	289074.0	0.948805	Y
2	IC 480-629405/11	5.0	4.530828	25.0	280462.0	0.906166	Y
3	IC 480-629405/12	10.0	9.416432	25.0	295064.0	0.941643	Y
4	IC 480-629405/13	25.0	24.001687	25.0	307619.0	0.960067	Y
5	IC 480-629405/14	50.0	52.448861	25.0	279385.0	1.048977	Y
6	ICIS 480-629405/15	125.0	116.630246	25.0	301108.0	0.933042	Y
7	IC 480-629405/16	250.0	213.782497	25.0	304640.0	0.85513	Y
8	IC 480-629405/17	500.0	389.208653	25.0	335542.0	0.778417	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

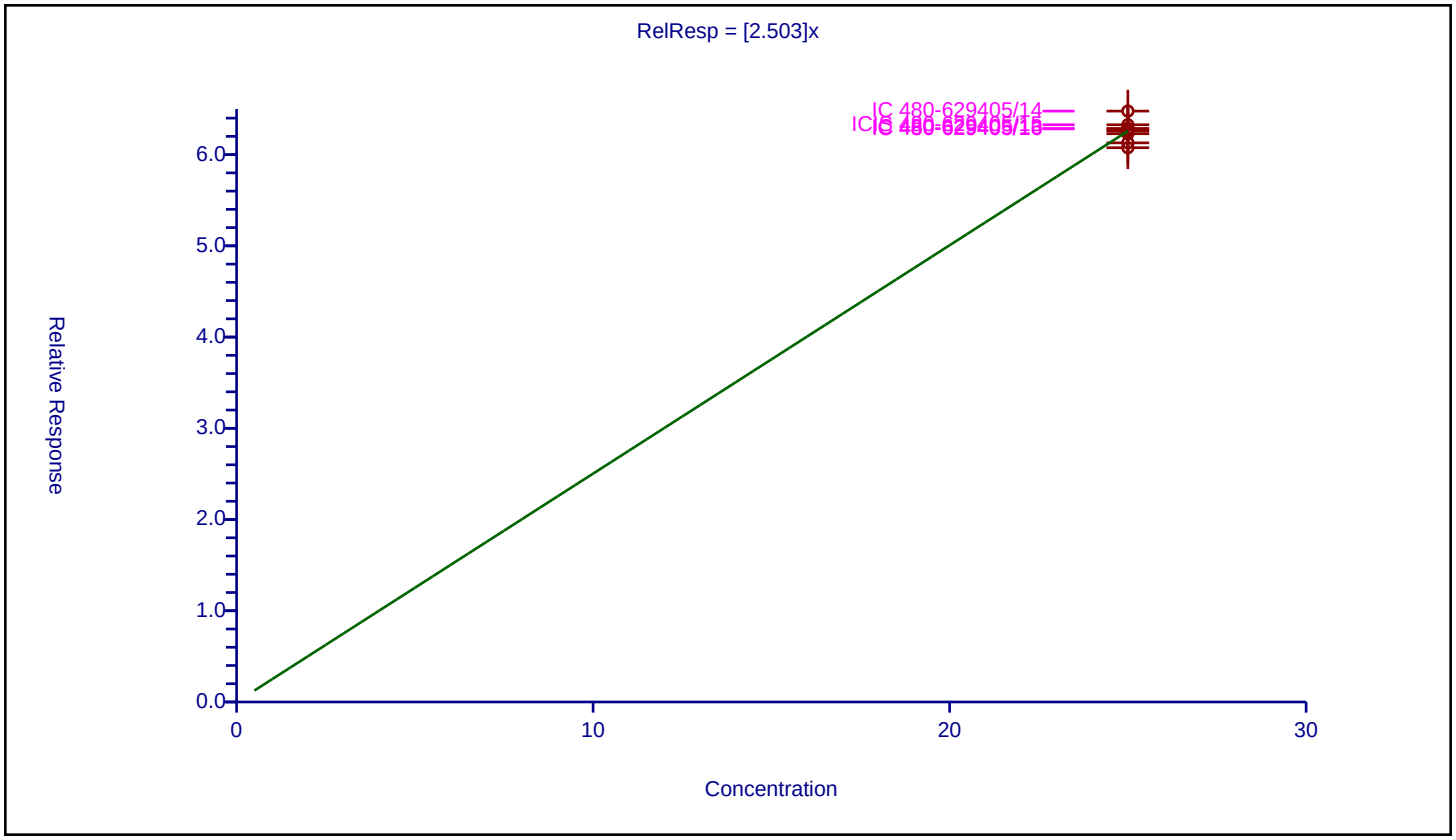
Curve Coefficients

Intercept:	0
Slope:	2.503

Error Coefficients

Standard Error:	801000
Relative Standard Error:	2.0
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	25.0	60.75728	25.0	289074.0	2.430291	Y
2	IC 480-629405/11	25.0	62.289544	25.0	280462.0	2.491582	Y
3	IC 480-629405/12	25.0	62.576848	25.0	295064.0	2.503074	Y
4	IC 480-629405/13	25.0	62.860145	25.0	307619.0	2.514406	Y
5	IC 480-629405/14	25.0	64.771104	25.0	279385.0	2.590844	Y
6	ICIS 480-629405/15	25.0	63.275718	25.0	301108.0	2.531029	Y
7	IC 480-629405/16	25.0	62.825712	25.0	304640.0	2.513028	Y
8	IC 480-629405/17	25.0	61.29106	25.0	335542.0	2.451642	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

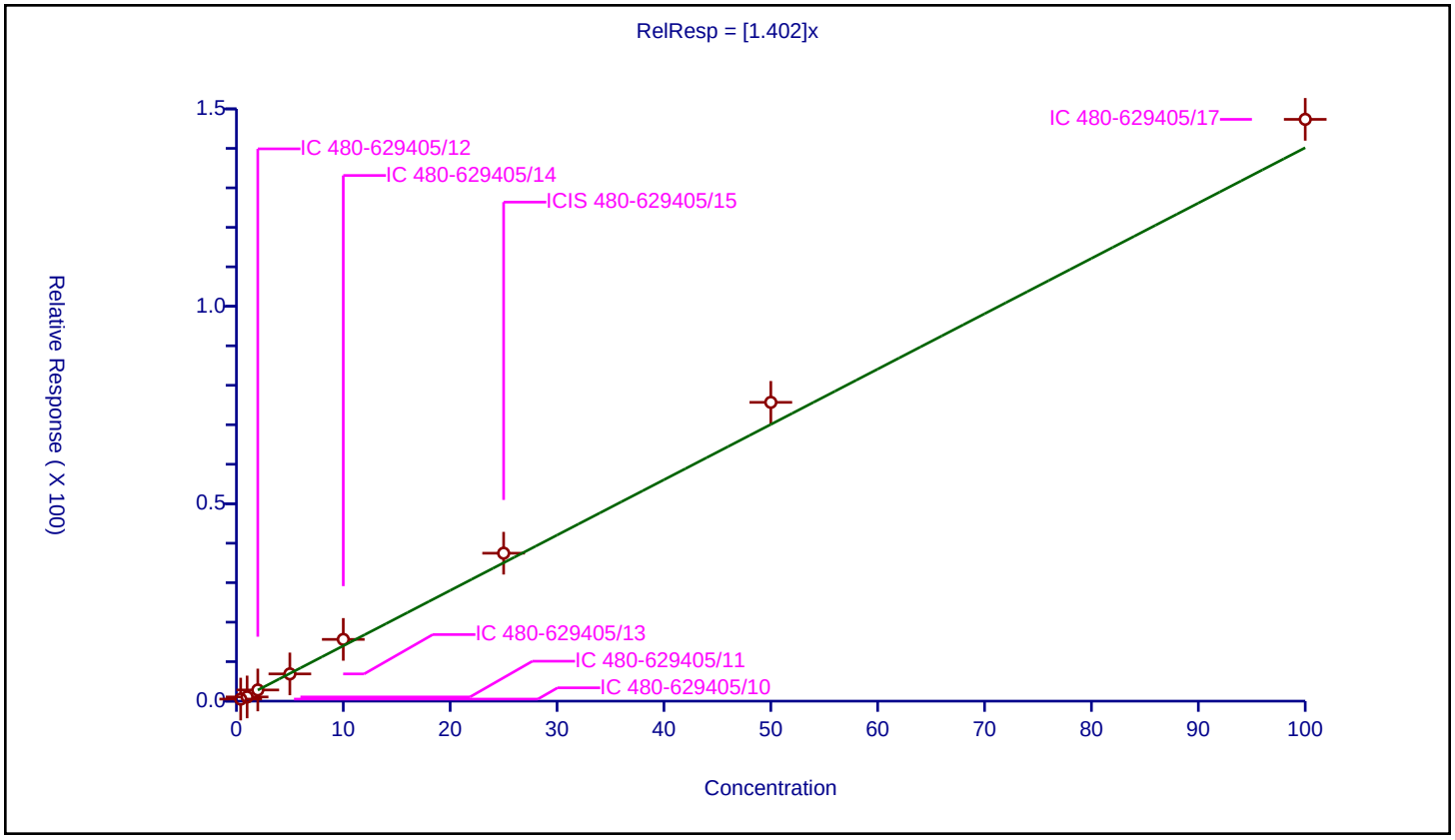
Curve Coefficients

Intercept:	0
Slope:	1.402

Error Coefficients

Standard Error:	845000
Relative Standard Error:	11.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.523914	25.0	289074.0	1.309786	Y
2	IC 480-629405/11	1.0	1.060393	25.0	280462.0	1.060393	Y
3	IC 480-629405/12	2.0	2.826929	25.0	295064.0	1.413465	Y
4	IC 480-629405/13	5.0	6.896681	25.0	307619.0	1.379336	Y
5	IC 480-629405/14	10.0	15.642125	25.0	279385.0	1.564212	Y
6	ICIS 480-629405/15	25.0	37.469197	25.0	301108.0	1.498768	Y
7	IC 480-629405/16	50.0	75.678424	25.0	304640.0	1.513568	Y
8	IC 480-629405/17	100.0	147.351524	25.0	335542.0	1.473515	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

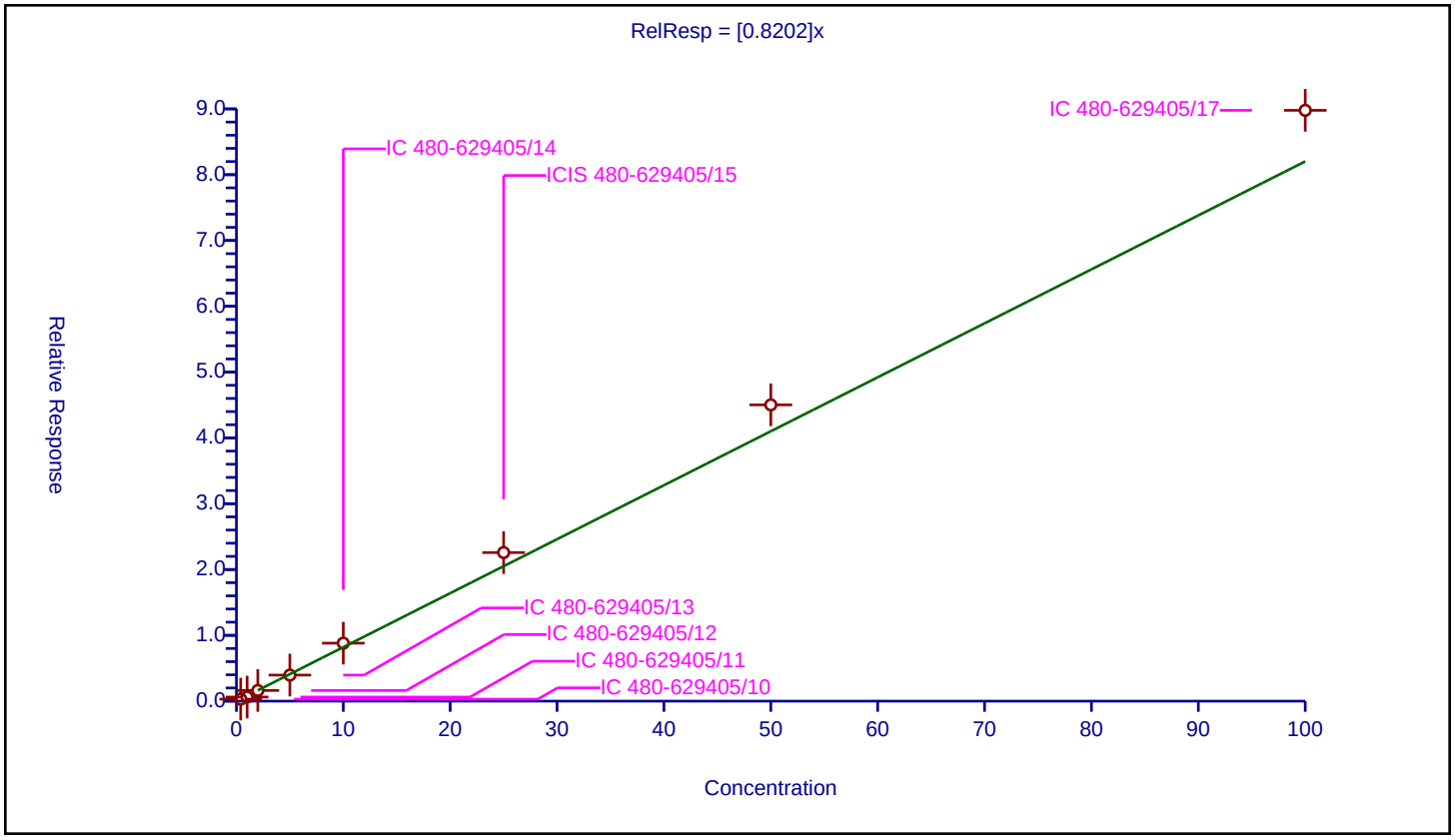
Curve Coefficients

Intercept:	0
Slope:	0.8202

Error Coefficients

Standard Error:	513000
Relative Standard Error:	11.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.301653	25.0	289074.0	0.754132	Y
2	IC 480-629405/11	1.0	0.622901	25.0	280462.0	0.622901	Y
3	IC 480-629405/12	2.0	1.620835	25.0	295064.0	0.810417	Y
4	IC 480-629405/13	5.0	3.958631	25.0	307619.0	0.791726	Y
5	IC 480-629405/14	10.0	8.807559	25.0	279385.0	0.880756	Y
6	ICIS 480-629405/15	25.0	22.577281	25.0	301108.0	0.903091	Y
7	IC 480-629405/16	50.0	45.025686	25.0	304640.0	0.900514	Y
8	IC 480-629405/17	100.0	89.783246	25.0	335542.0	0.897832	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

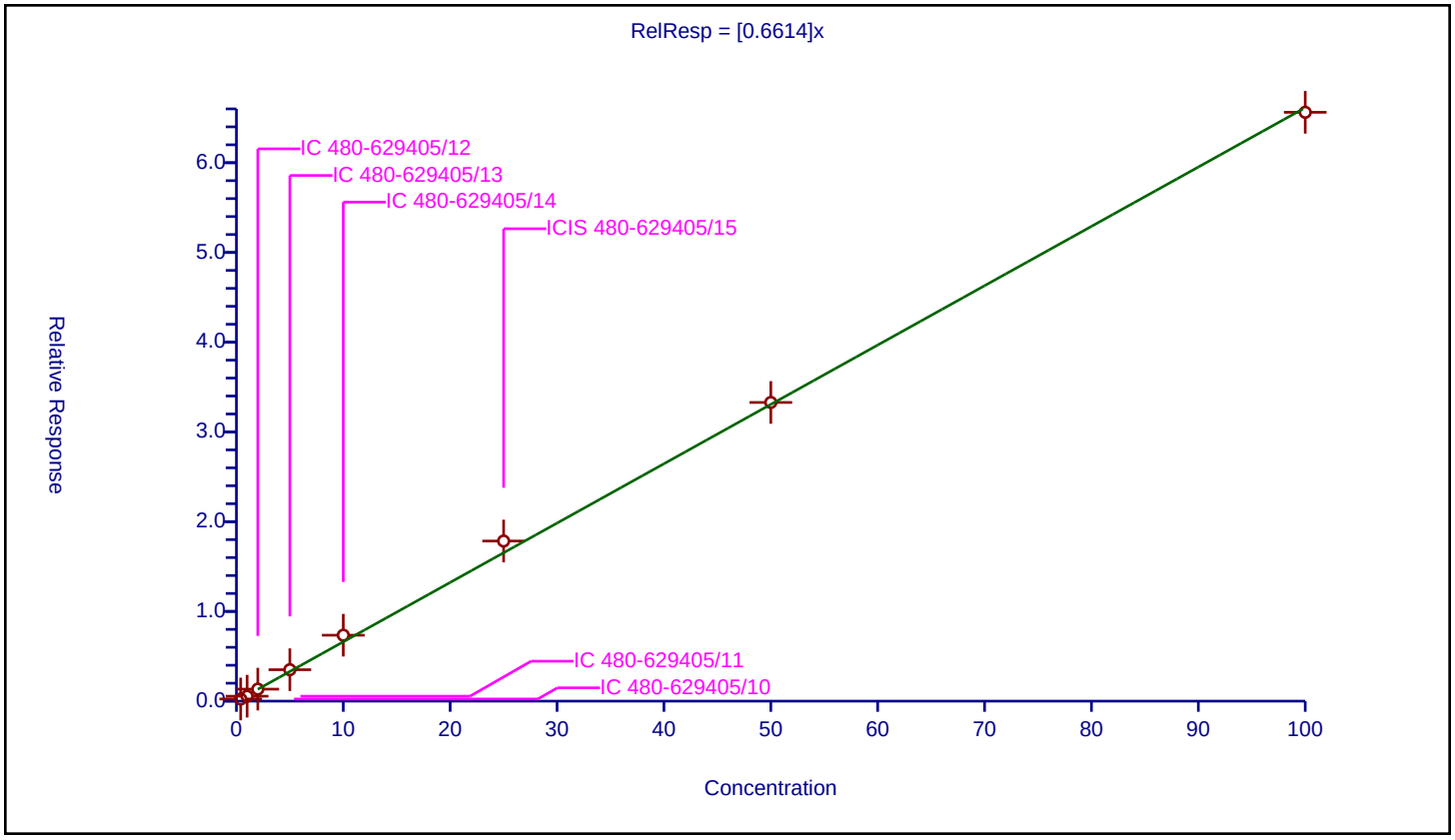
Curve Coefficients

Intercept:	0
Slope:	0.6614

Error Coefficients

Standard Error:	377000
Relative Standard Error:	9.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.24025	25.0	289074.0	0.600625	Y
2	IC 480-629405/11	1.0	0.551055	25.0	280462.0	0.551055	Y
3	IC 480-629405/12	2.0	1.336066	25.0	295064.0	0.668033	Y
4	IC 480-629405/13	5.0	3.503847	25.0	307619.0	0.700769	Y
5	IC 480-629405/14	10.0	7.347746	25.0	279385.0	0.734775	Y
6	ICIS 480-629405/15	25.0	17.841771	25.0	301108.0	0.713671	Y
7	IC 480-629405/16	50.0	33.285846	25.0	304640.0	0.665717	Y
8	IC 480-629405/17	100.0	65.619878	25.0	335542.0	0.656199	Y



Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

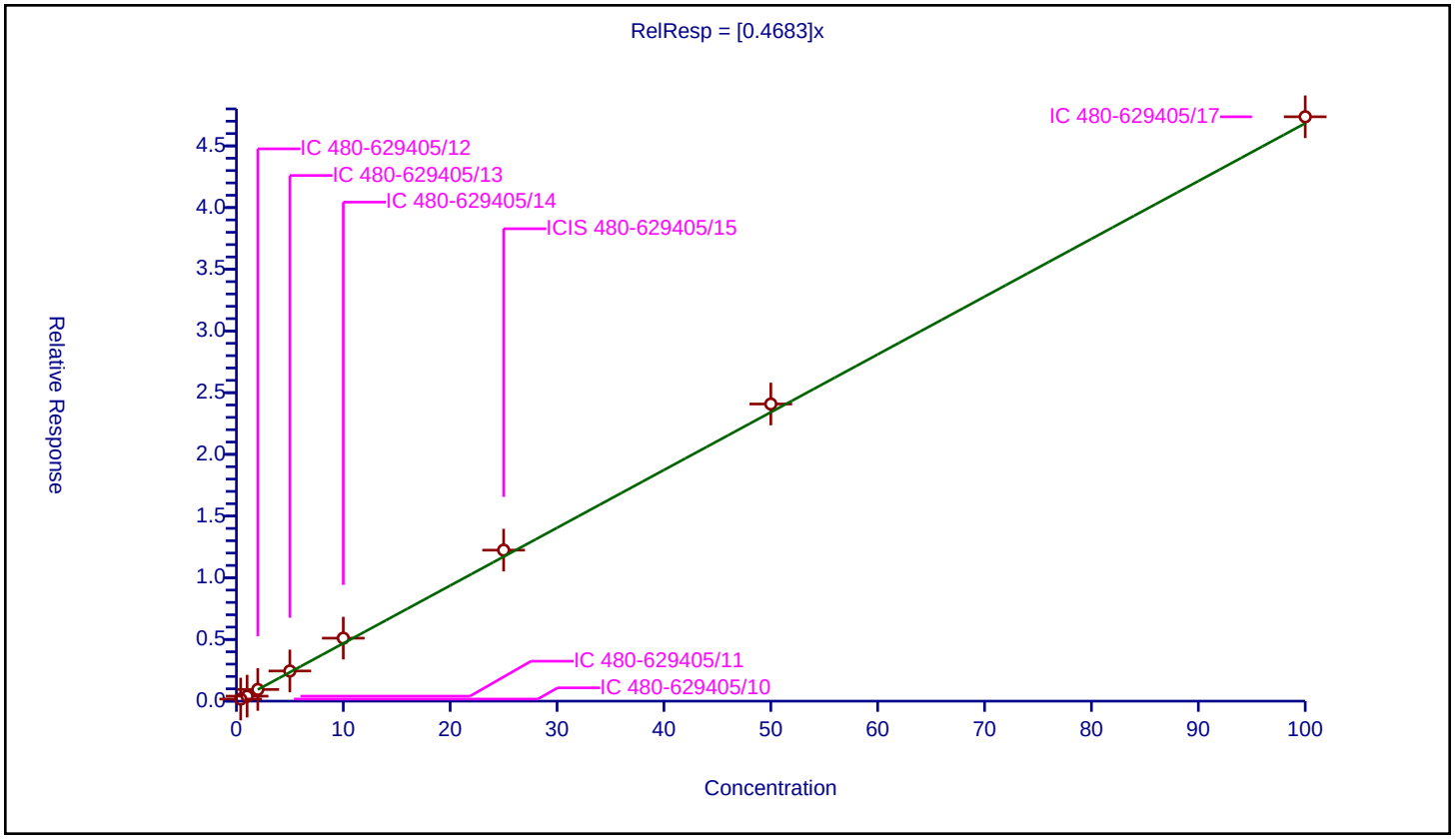
Curve Coefficients

Intercept:	0
Slope:	0.4683

Error Coefficients

Standard Error:	272000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.169507	25.0	289074.0	0.423767	Y
2	IC 480-629405/11	1.0	0.405403	25.0	280462.0	0.405403	Y
3	IC 480-629405/12	2.0	0.94632	25.0	295064.0	0.47316	Y
4	IC 480-629405/13	5.0	2.445395	25.0	307619.0	0.489079	Y
5	IC 480-629405/14	10.0	5.103352	25.0	279385.0	0.510335	Y
6	ICIS 480-629405/15	25.0	12.238466	25.0	301108.0	0.489539	Y
7	IC 480-629405/16	50.0	24.08277	25.0	304640.0	0.481655	Y
8	IC 480-629405/17	100.0	47.360614	25.0	335542.0	0.473606	Y



Calibration / Tetrachloroethene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

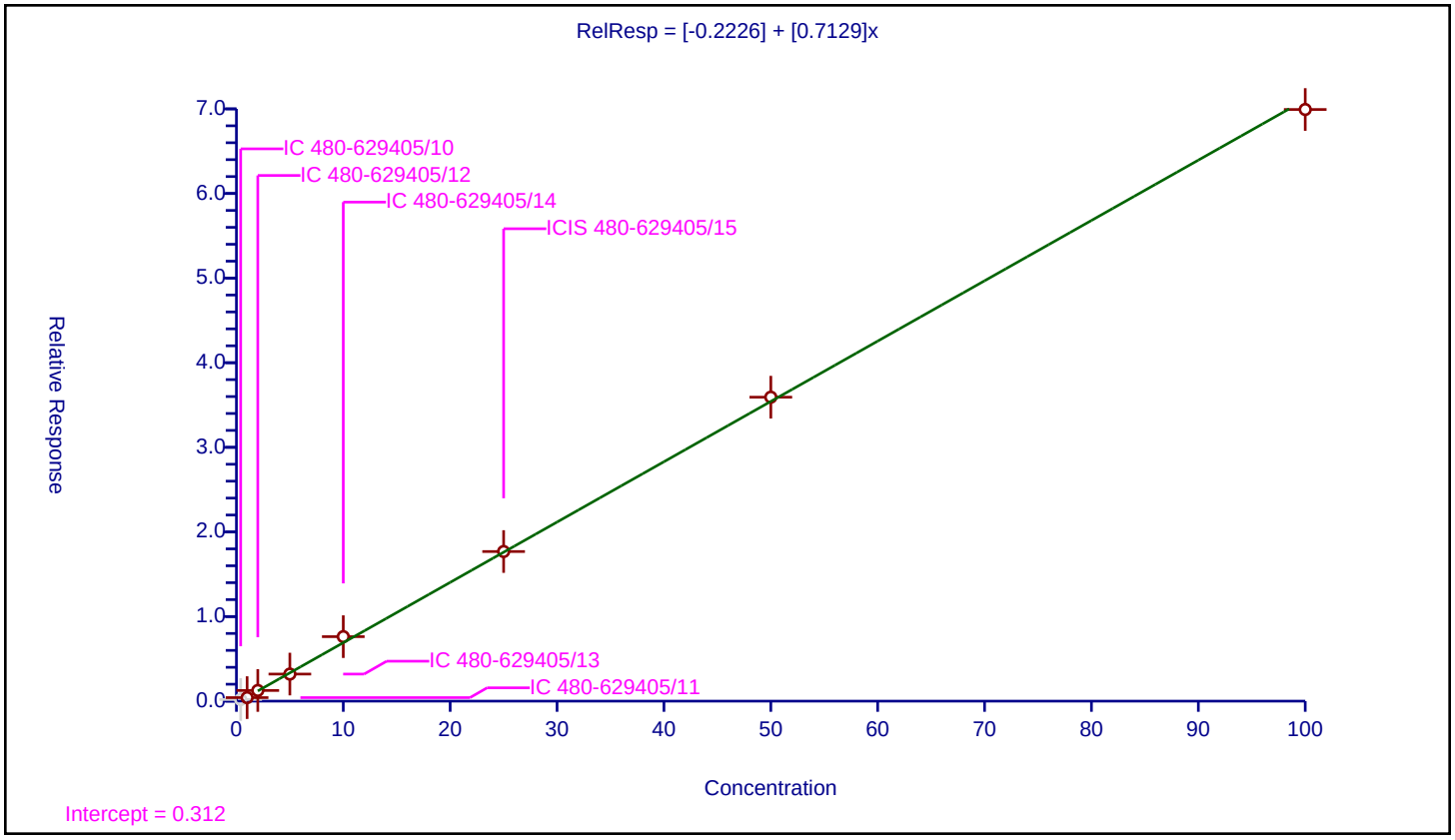
Curve Coefficients

Intercept:	-0.2226
Slope:	0.7129

Error Coefficients

Standard Error:	475000
Relative Standard Error:	7.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.193895	25.0	289074.0	0.484737	N
2	IC 480-629405/11	1.0	0.416188	25.0	280462.0	0.416188	Y
3	IC 480-629405/12	2.0	1.260998	25.0	295064.0	0.630499	Y
4	IC 480-629405/13	5.0	3.200387	25.0	307619.0	0.640077	Y
5	IC 480-629405/14	10.0	7.623888	25.0	279385.0	0.762389	Y
6	ICIS 480-629405/15	25.0	17.683937	25.0	301108.0	0.707357	Y
7	IC 480-629405/16	50.0	35.927488	25.0	304640.0	0.71855	Y
8	IC 480-629405/17	100.0	69.926045	25.0	335542.0	0.69926	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

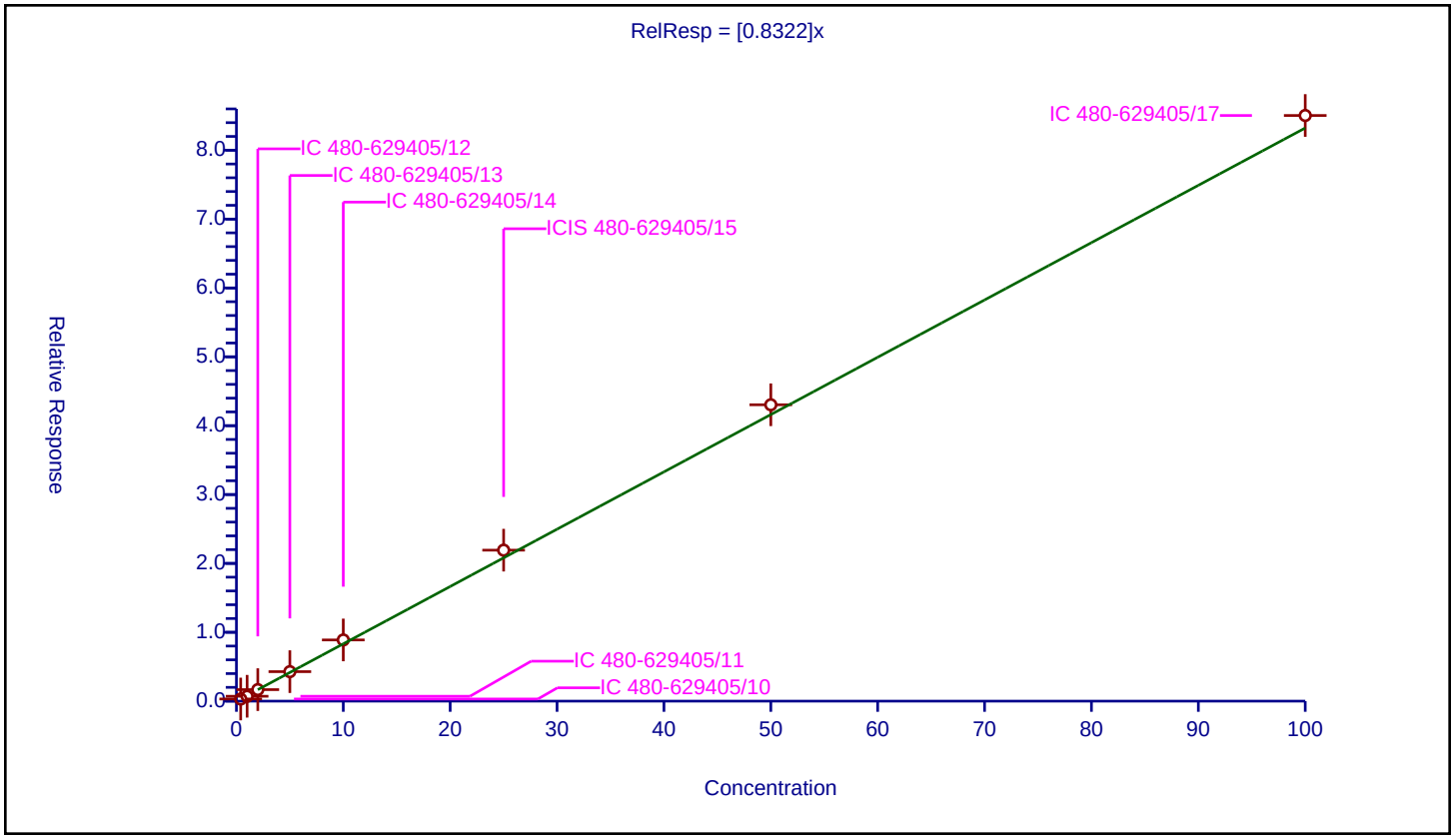
Curve Coefficients

Intercept:	0
Slope:	0.8322

Error Coefficients

Standard Error:	487000
Relative Standard Error:	7.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.310474	25.0	289074.0	0.776185	Y
2	IC 480-629405/11	1.0	0.711415	25.0	280462.0	0.711415	Y
3	IC 480-629405/12	2.0	1.674128	25.0	295064.0	0.837064	Y
4	IC 480-629405/13	5.0	4.282652	25.0	307619.0	0.85653	Y
5	IC 480-629405/14	10.0	8.886483	25.0	279385.0	0.888648	Y
6	ICIS 480-629405/15	25.0	21.922616	25.0	301108.0	0.876905	Y
7	IC 480-629405/16	50.0	43.034073	25.0	304640.0	0.860681	Y
8	IC 480-629405/17	100.0	85.041664	25.0	335542.0	0.850417	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

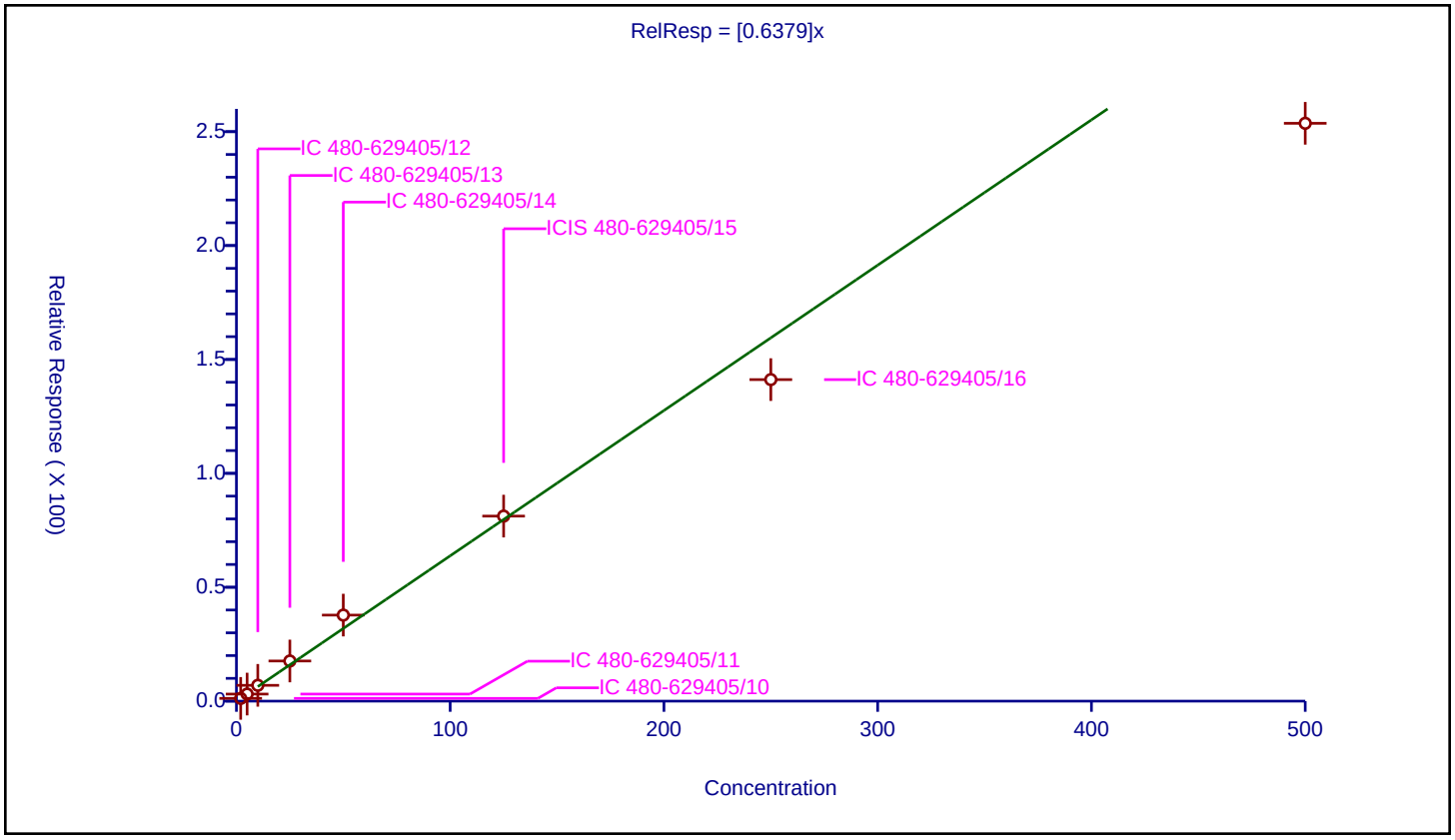
Curve Coefficients

Intercept:	0
Slope:	0.6379

Error Coefficients

Standard Error:	1500000
Relative Standard Error:	12.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	2.0	1.214568	25.0	289074.0	0.607284	Y
2	IC 480-629405/11	5.0	3.099618	25.0	280462.0	0.619924	Y
3	IC 480-629405/12	10.0	6.940698	25.0	295064.0	0.69407	Y
4	IC 480-629405/13	25.0	17.628219	25.0	307619.0	0.705129	Y
5	IC 480-629405/14	50.0	37.768402	25.0	279385.0	0.755368	Y
6	ICIS 480-629405/15	125.0	81.231651	25.0	301108.0	0.649853	Y
7	IC 480-629405/16	250.0	141.153657	25.0	304640.0	0.564615	Y
8	IC 480-629405/17	500.0	253.678675	25.0	335542.0	0.507357	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

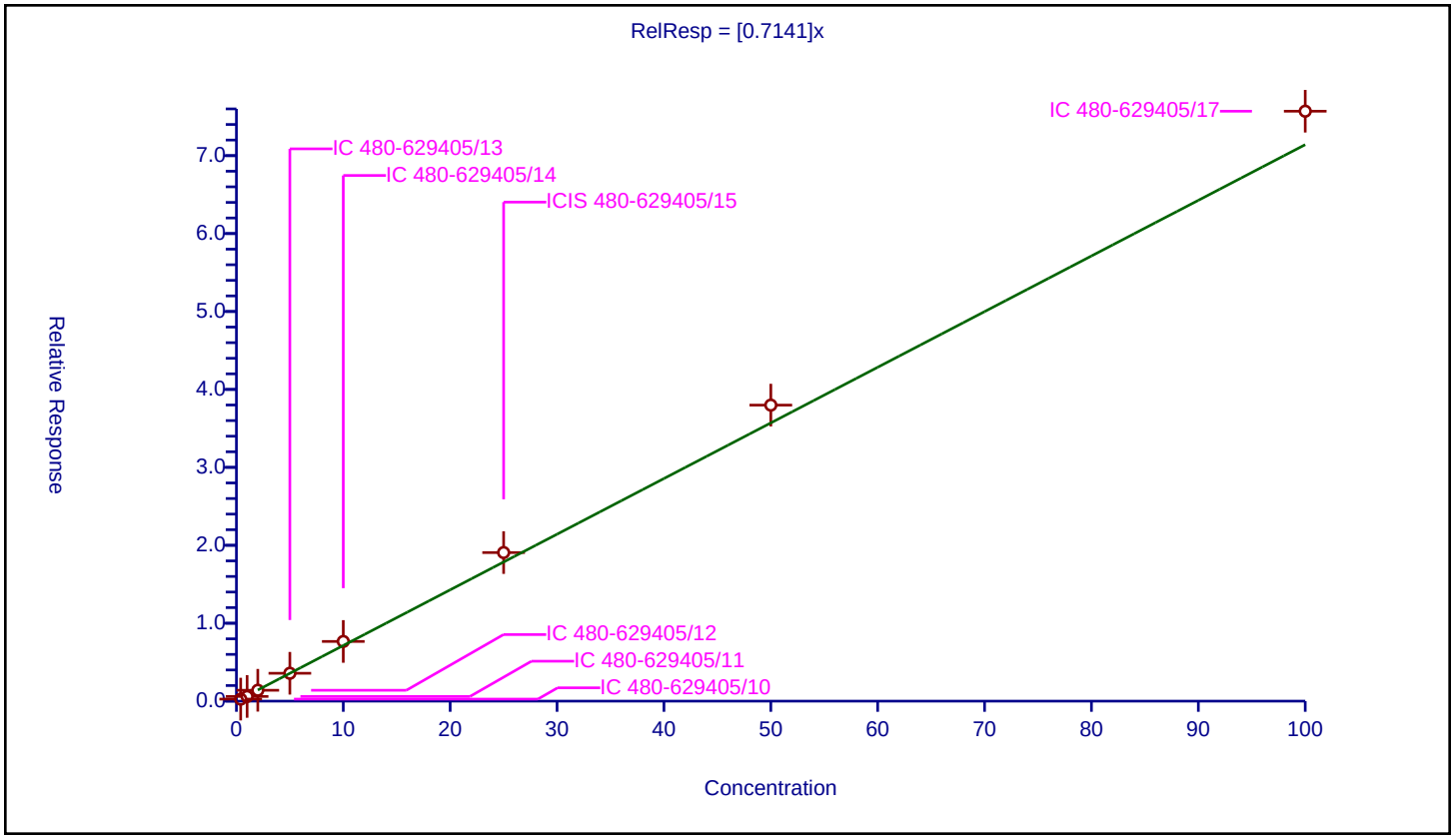
Curve Coefficients

Intercept:	0
Slope:	0.7141

Error Coefficients

Standard Error:	432000
Relative Standard Error:	8.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.260314	25.0	289074.0	0.650785	Y
2	IC 480-629405/11	1.0	0.603469	25.0	280462.0	0.603469	Y
3	IC 480-629405/12	2.0	1.395375	25.0	295064.0	0.697688	Y
4	IC 480-629405/13	5.0	3.575689	25.0	307619.0	0.715138	Y
5	IC 480-629405/14	10.0	7.661202	25.0	279385.0	0.76612	Y
6	ICIS 480-629405/15	25.0	19.067328	25.0	301108.0	0.762693	Y
7	IC 480-629405/16	50.0	37.986804	25.0	304640.0	0.759736	Y
8	IC 480-629405/17	100.0	75.70401	25.0	335542.0	0.75704	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

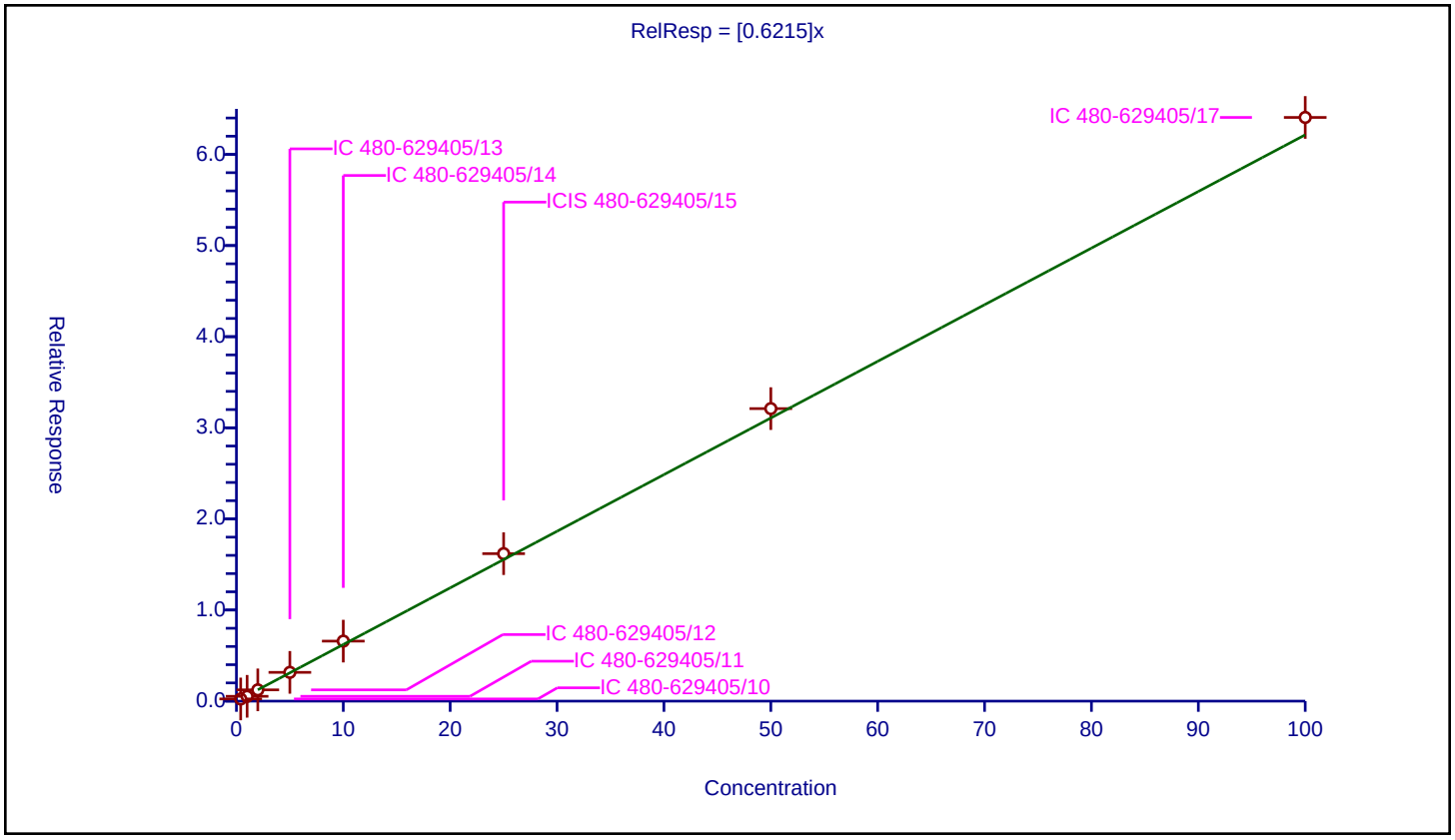
Curve Coefficients

Intercept:	0
Slope:	0.6215

Error Coefficients

Standard Error:	366000
Relative Standard Error:	6.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.240509	25.0	289074.0	0.601273	Y
2	IC 480-629405/11	1.0	0.531712	25.0	280462.0	0.531712	Y
3	IC 480-629405/12	2.0	1.23685	25.0	295064.0	0.618425	Y
4	IC 480-629405/13	5.0	3.158534	25.0	307619.0	0.631707	Y
5	IC 480-629405/14	10.0	6.587952	25.0	279385.0	0.658795	Y
6	ICIS 480-629405/15	25.0	16.187215	25.0	301108.0	0.647489	Y
7	IC 480-629405/16	50.0	32.105928	25.0	304640.0	0.642119	Y
8	IC 480-629405/17	100.0	64.060982	25.0	335542.0	0.64061	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

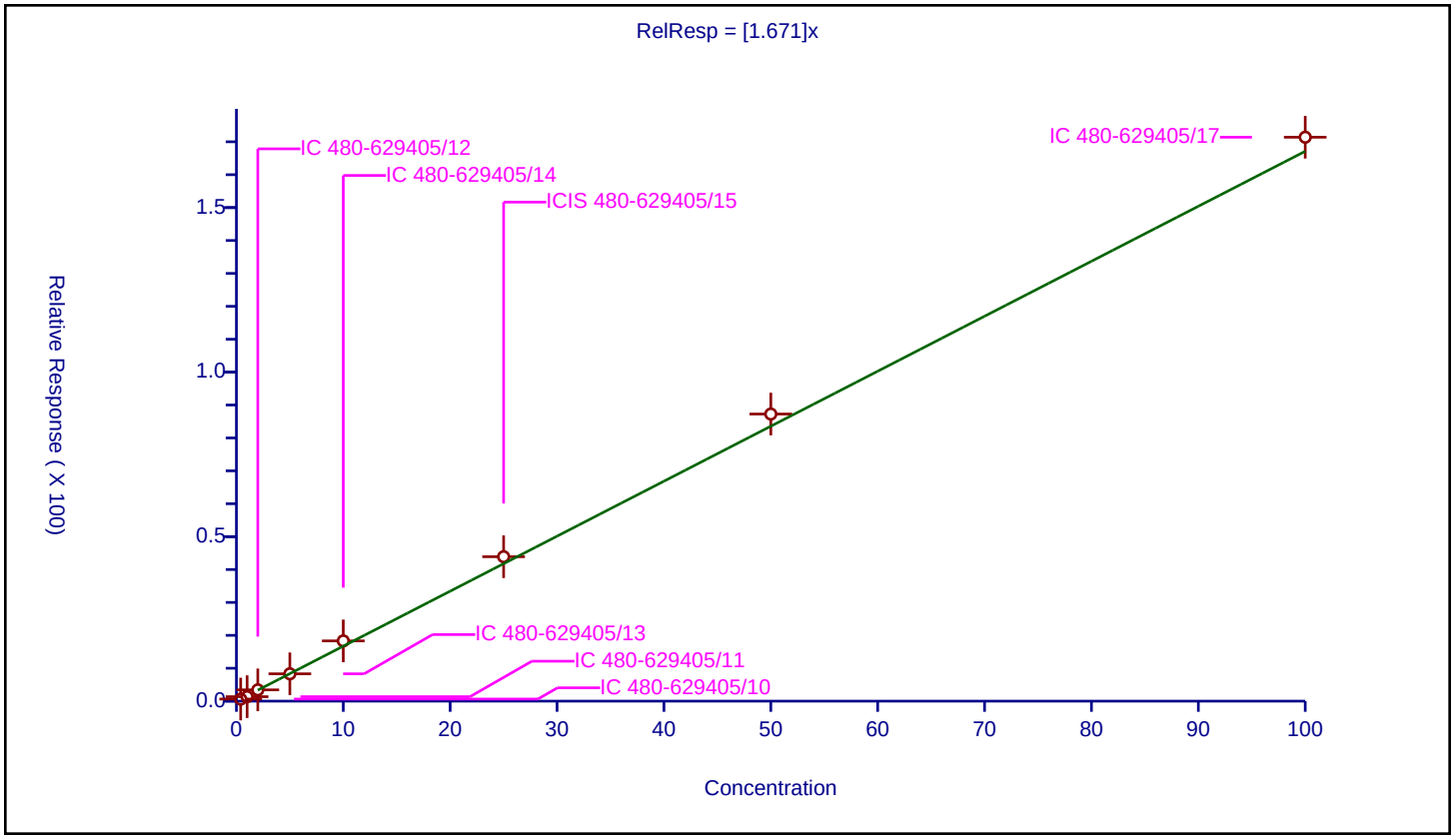
Curve Coefficients

Intercept:	0
Slope:	1.671

Error Coefficients

Standard Error:	982000
Relative Standard Error:	8.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.636688	25.0	289074.0	1.59172	Y
2	IC 480-629405/11	1.0	1.355442	25.0	280462.0	1.355442	Y
3	IC 480-629405/12	2.0	3.430781	25.0	295064.0	1.715391	Y
4	IC 480-629405/13	5.0	8.306867	25.0	307619.0	1.661373	Y
5	IC 480-629405/14	10.0	18.302611	25.0	279385.0	1.830261	Y
6	ICIS 480-629405/15	25.0	43.895463	25.0	301108.0	1.755819	Y
7	IC 480-629405/16	50.0	87.257747	25.0	304640.0	1.745155	Y
8	IC 480-629405/17	100.0	171.385177	25.0	335542.0	1.713852	Y



Calibration / Ethylbenzene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

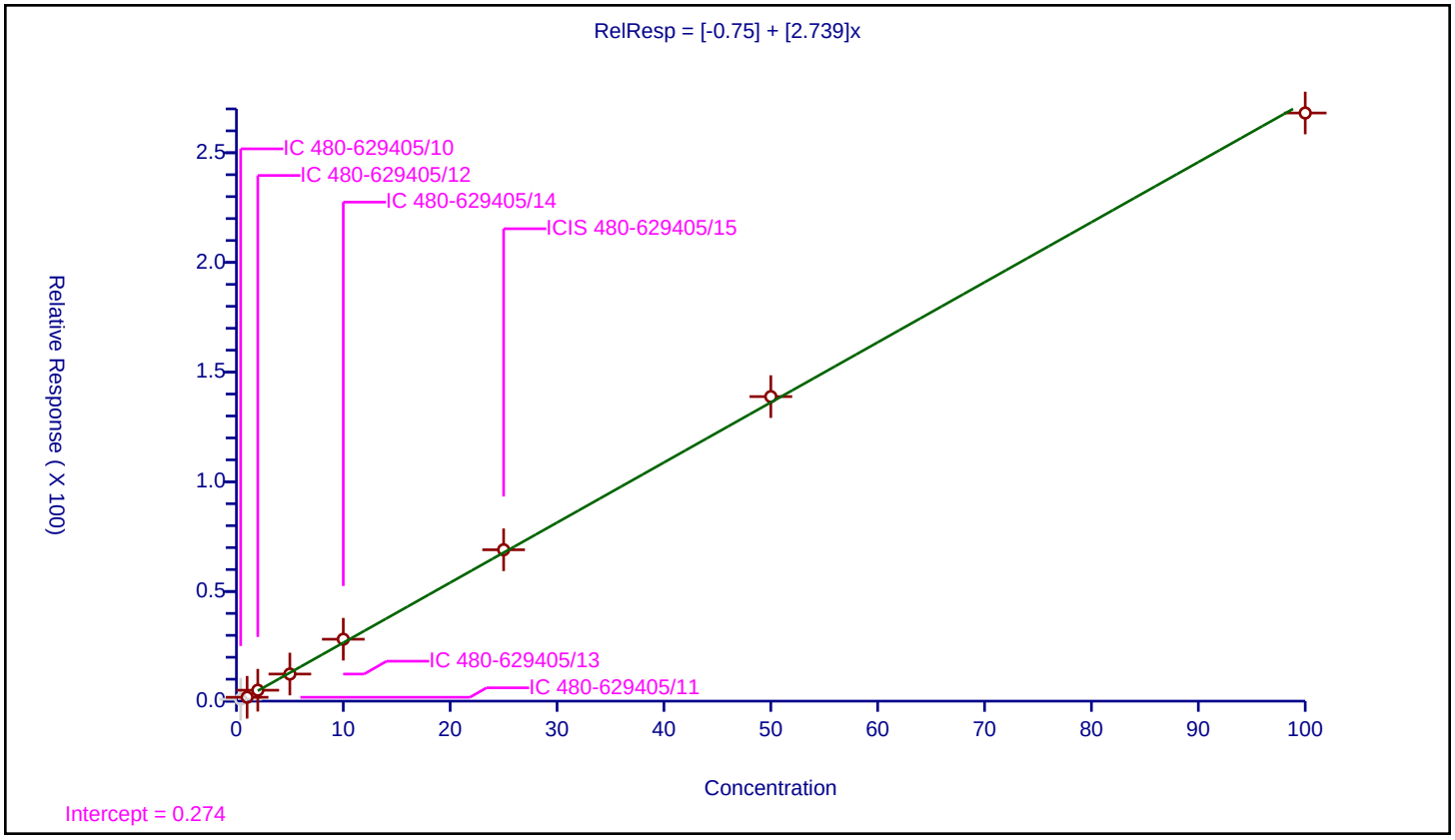
Curve Coefficients

Intercept:	-0.75
Slope:	2.739

Error Coefficients

Standard Error:	1820000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.871057	25.0	289074.0	2.177643	N
2	IC 480-629405/11	1.0	1.766104	25.0	280462.0	1.766104	Y
3	IC 480-629405/12	2.0	4.97875	25.0	295064.0	2.489375	Y
4	IC 480-629405/13	5.0	12.359526	25.0	307619.0	2.471905	Y
5	IC 480-629405/14	10.0	28.218498	25.0	279385.0	2.82185	Y
6	ICIS 480-629405/15	25.0	69.013361	25.0	301108.0	2.760534	Y
7	IC 480-629405/16	50.0	138.839286	25.0	304640.0	2.776786	Y
8	IC 480-629405/17	100.0	268.126941	25.0	335542.0	2.681269	Y



Calibration / 1,1,1,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

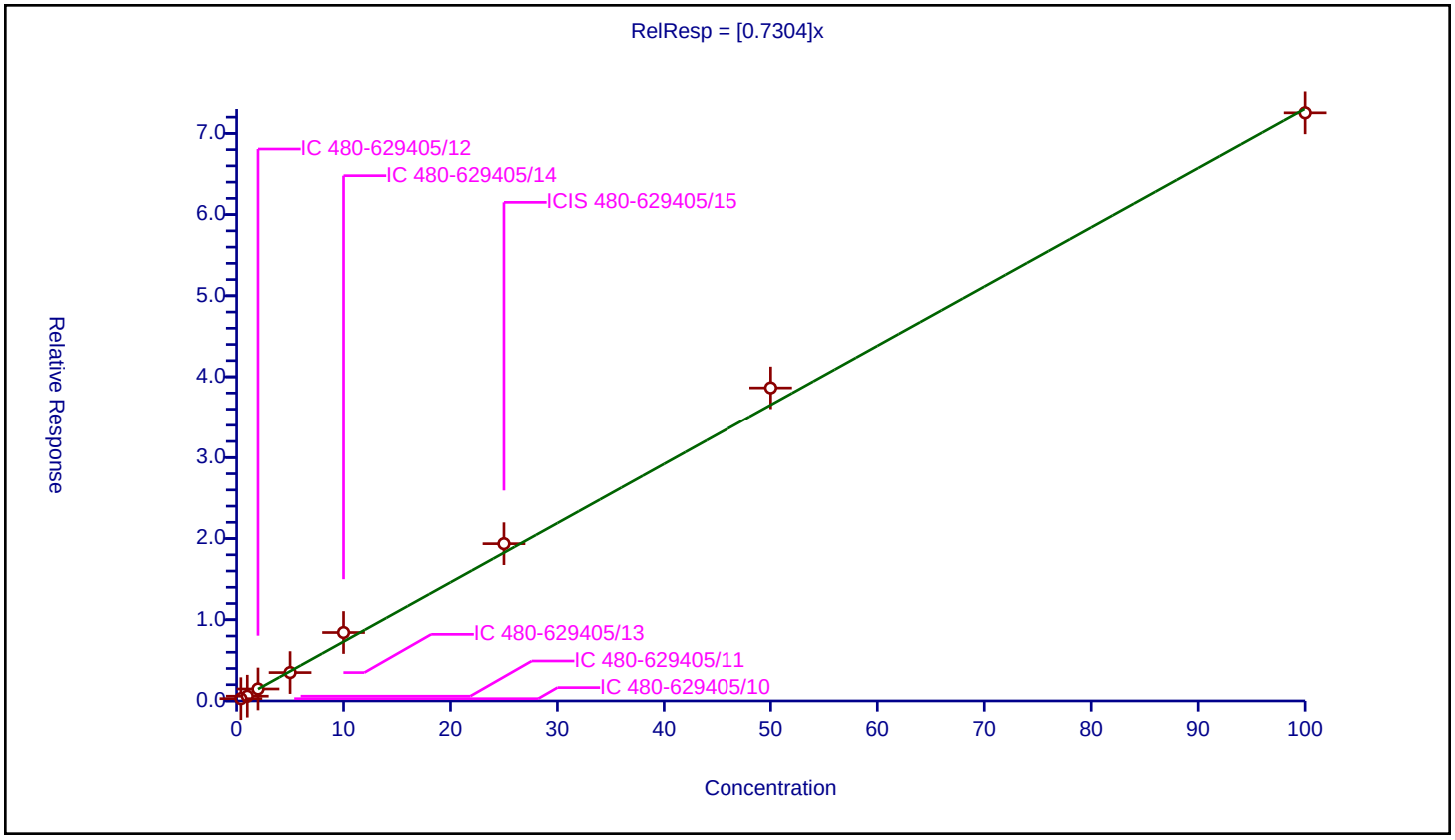
Curve Coefficients

Intercept:	0
Slope:	0.7304

Error Coefficients

Standard Error:	420000
Relative Standard Error:	10.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.281935	25.0	289074.0	0.704837	Y
2	IC 480-629405/11	1.0	0.586443	25.0	280462.0	0.586443	Y
3	IC 480-629405/12	2.0	1.474511	25.0	295064.0	0.737255	Y
4	IC 480-629405/13	5.0	3.493201	25.0	307619.0	0.69864	Y
5	IC 480-629405/14	10.0	8.429855	25.0	279385.0	0.842985	Y
6	ICIS 480-629405/15	25.0	19.37104	25.0	301108.0	0.774842	Y
7	IC 480-629405/16	50.0	38.635439	25.0	304640.0	0.772709	Y
8	IC 480-629405/17	100.0	72.530712	25.0	335542.0	0.725307	Y



Calibration / m-Xylene & p-Xylene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

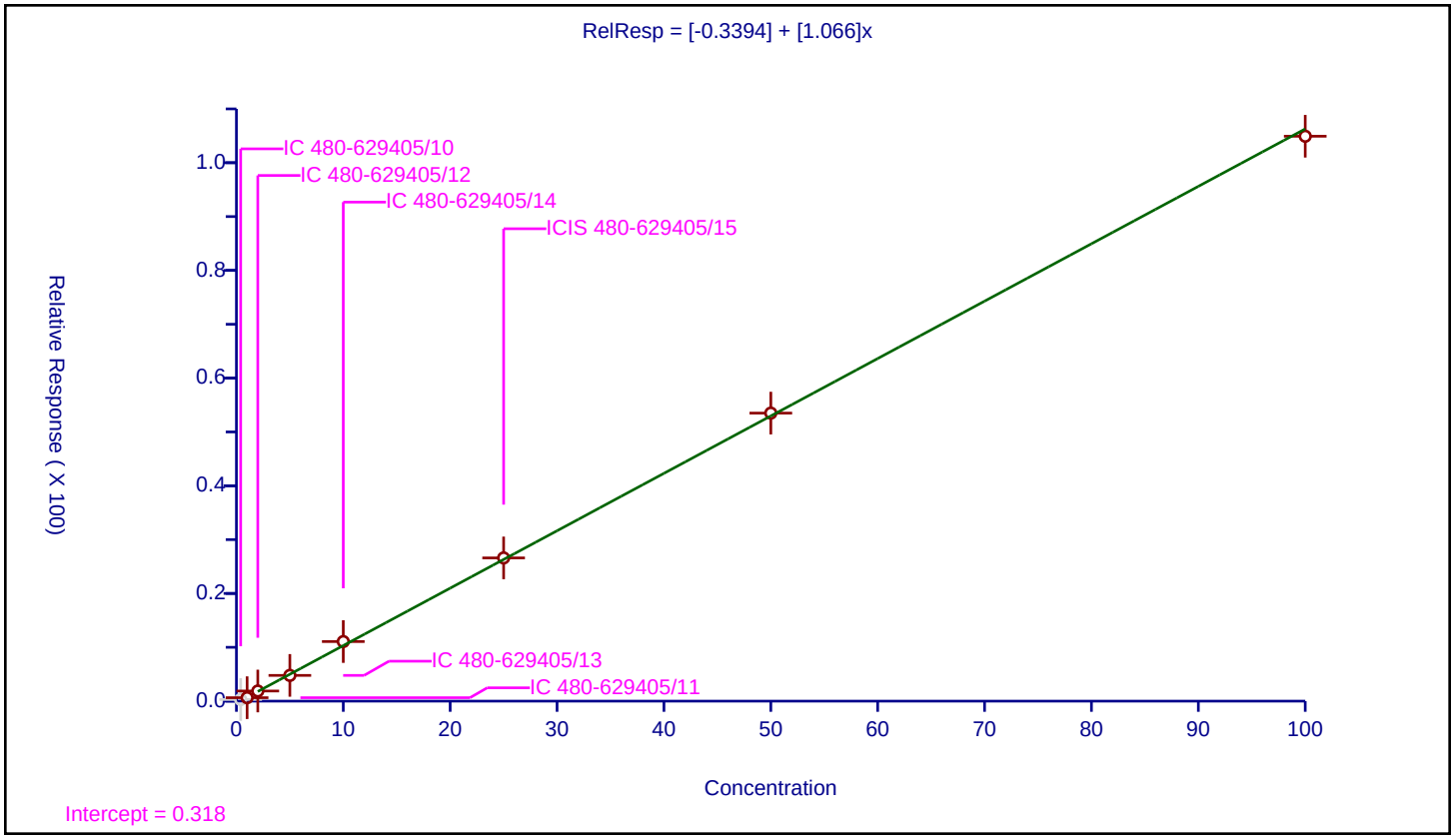
Curve Coefficients

Intercept:	-0.3394
Slope:	1.066

Error Coefficients

Standard Error:	711000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.304247	25.0	289074.0	0.760618	N
2	IC 480-629405/11	1.0	0.641442	25.0	280462.0	0.641442	Y
3	IC 480-629405/12	2.0	1.882304	25.0	295064.0	0.941152	Y
4	IC 480-629405/13	5.0	4.779451	25.0	307619.0	0.95589	Y
5	IC 480-629405/14	10.0	11.06645	25.0	279385.0	1.106645	Y
6	ICIS 480-629405/15	25.0	26.599758	25.0	301108.0	1.06399	Y
7	IC 480-629405/16	50.0	53.498638	25.0	304640.0	1.069973	Y
8	IC 480-629405/17	100.0	104.919056	25.0	335542.0	1.049191	Y



Calibration / o-Xylene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

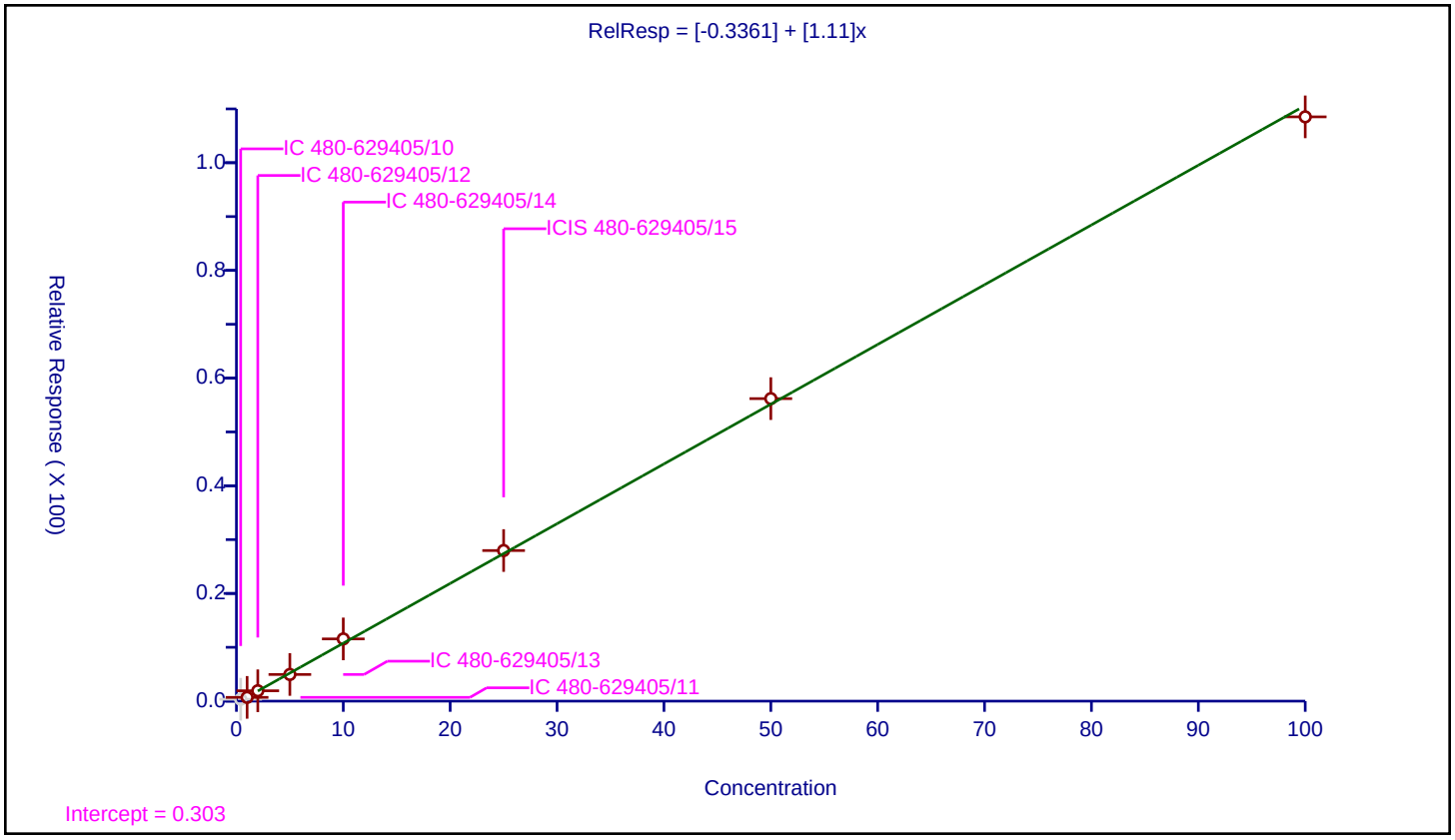
Curve Coefficients

Intercept:	-0.3361
Slope:	1.11

Error Coefficients

Standard Error:	738000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.35484	25.0	289074.0	0.8871	N
2	IC 480-629405/11	1.0	0.700897	25.0	280462.0	0.700897	Y
3	IC 480-629405/12	2.0	1.927972	25.0	295064.0	0.963986	Y
4	IC 480-629405/13	5.0	4.955074	25.0	307619.0	0.991015	Y
5	IC 480-629405/14	10.0	11.557081	25.0	279385.0	1.155708	Y
6	ICIS 480-629405/15	25.0	27.970529	25.0	301108.0	1.118821	Y
7	IC 480-629405/16	50.0	56.18599	25.0	304640.0	1.12372	Y
8	IC 480-629405/17	100.0	108.519872	25.0	335542.0	1.085199	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

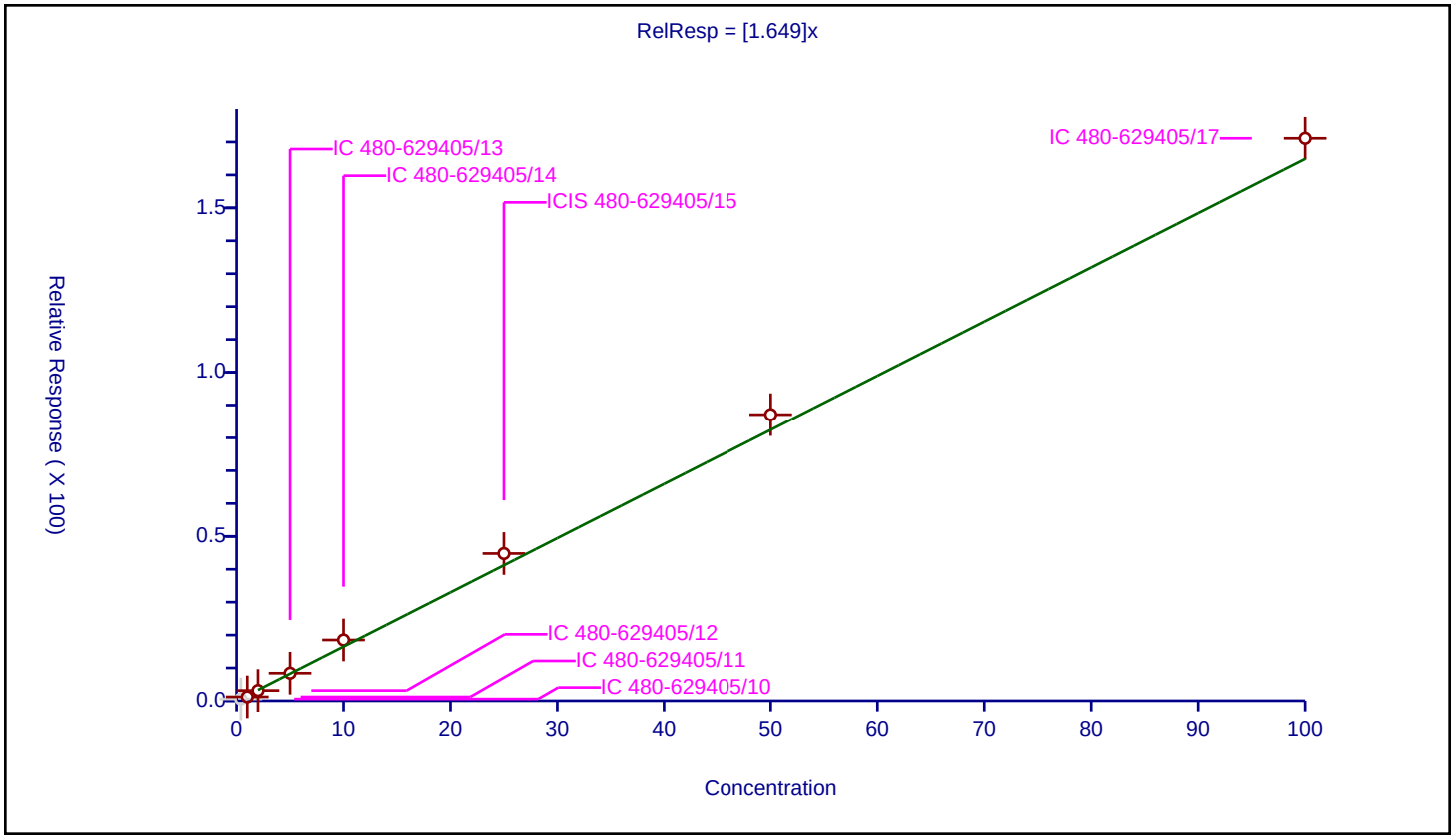
Curve Coefficients

Intercept:	0
Slope:	1.649

Error Coefficients

Standard Error:	1060000
Relative Standard Error:	13.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.563178	25.0	289074.0	1.407944	N
2	IC 480-629405/11	1.0	1.198202	25.0	280462.0	1.198202	Y
3	IC 480-629405/12	2.0	3.133049	25.0	295064.0	1.566525	Y
4	IC 480-629405/13	5.0	8.407234	25.0	307619.0	1.681447	Y
5	IC 480-629405/14	10.0	18.509315	25.0	279385.0	1.850932	Y
6	ICIS 480-629405/15	25.0	44.793313	25.0	301108.0	1.791733	Y
7	IC 480-629405/16	50.0	87.088285	25.0	304640.0	1.741766	Y
8	IC 480-629405/17	100.0	171.118444	25.0	335542.0	1.711184	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

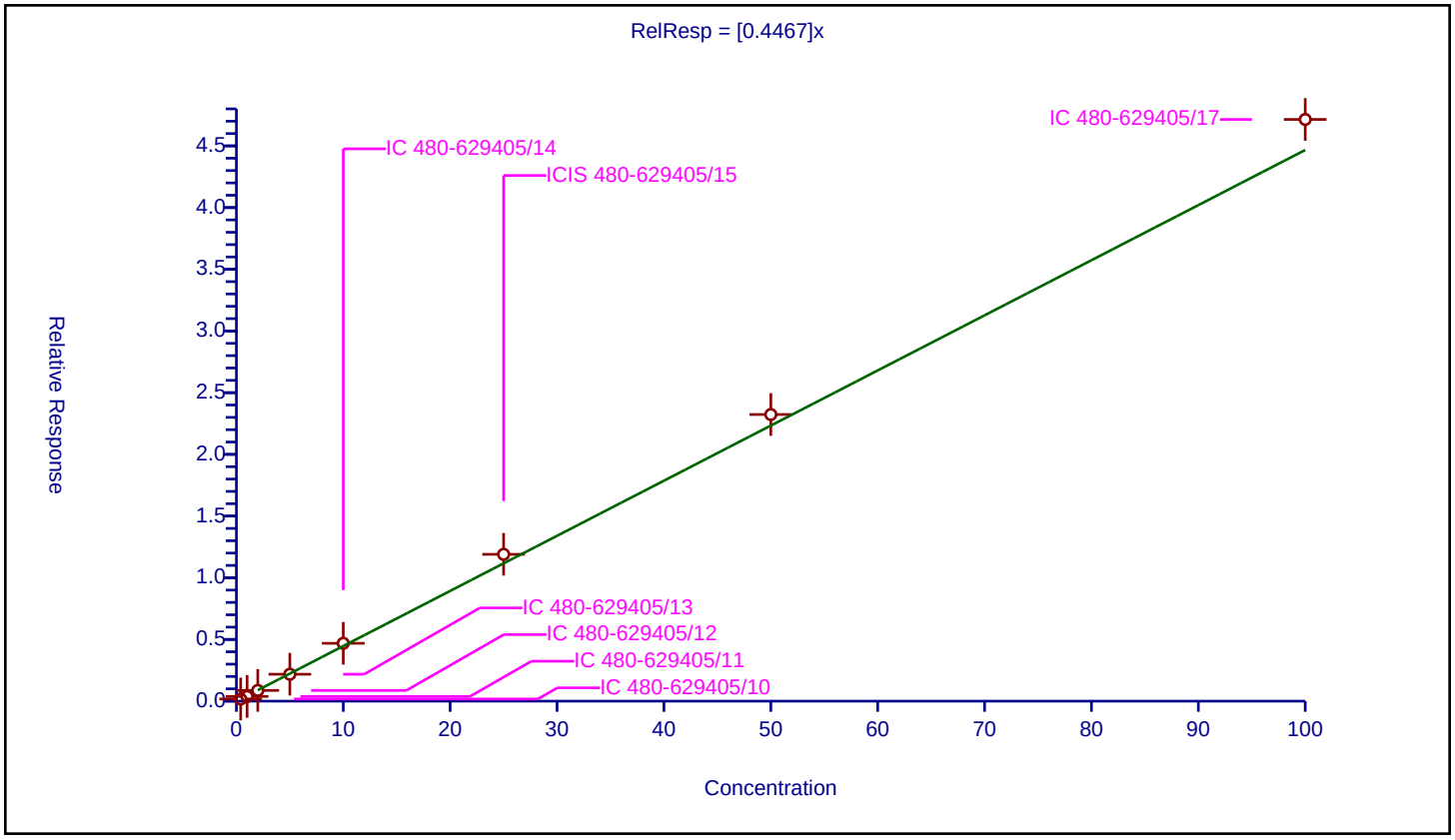
Curve Coefficients

Intercept:	0
Slope:	0.4467

Error Coefficients

Standard Error:	268000
Relative Standard Error:	6.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.175734	25.0	289074.0	0.439334	Y
2	IC 480-629405/11	1.0	0.38285	25.0	280462.0	0.38285	Y
3	IC 480-629405/12	2.0	0.868286	25.0	295064.0	0.434143	Y
4	IC 480-629405/13	5.0	2.18062	25.0	307619.0	0.436124	Y
5	IC 480-629405/14	10.0	4.688065	25.0	279385.0	0.468806	Y
6	ICIS 480-629405/15	25.0	11.899551	25.0	301108.0	0.475982	Y
7	IC 480-629405/16	50.0	23.230863	25.0	304640.0	0.464617	Y
8	IC 480-629405/17	100.0	47.14231	25.0	335542.0	0.471423	Y



Calibration / Isopropylbenzene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

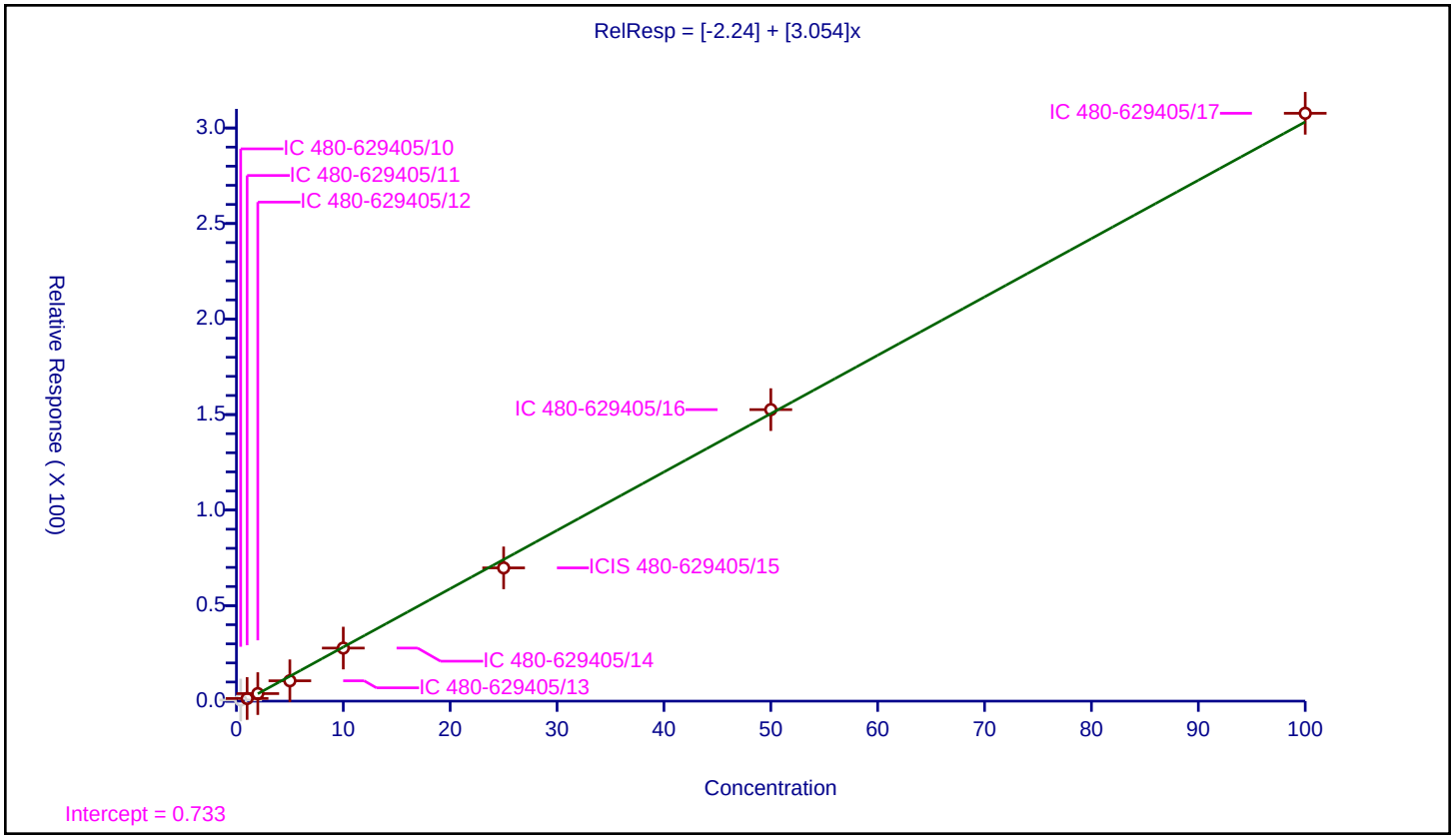
Curve Coefficients

Intercept:	-2.24
Slope:	3.054

Error Coefficients

Standard Error:	1980000
Relative Standard Error:	11.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.597811	25.0	343378.0	1.494526	N
2	IC 480-629405/11	1.0	1.386258	25.0	331035.0	1.386258	Y
3	IC 480-629405/12	2.0	3.955118	25.0	353327.0	1.977559	Y
4	IC 480-629405/13	5.0	10.654408	25.0	360555.0	2.130882	Y
5	IC 480-629405/14	10.0	27.783721	25.0	312199.0	2.778372	Y
6	ICIS 480-629405/15	25.0	69.75349	25.0	320818.0	2.79014	Y
7	IC 480-629405/16	50.0	152.589242	25.0	301372.0	3.051785	Y
8	IC 480-629405/17	100.0	307.700908	25.0	317956.0	3.077009	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

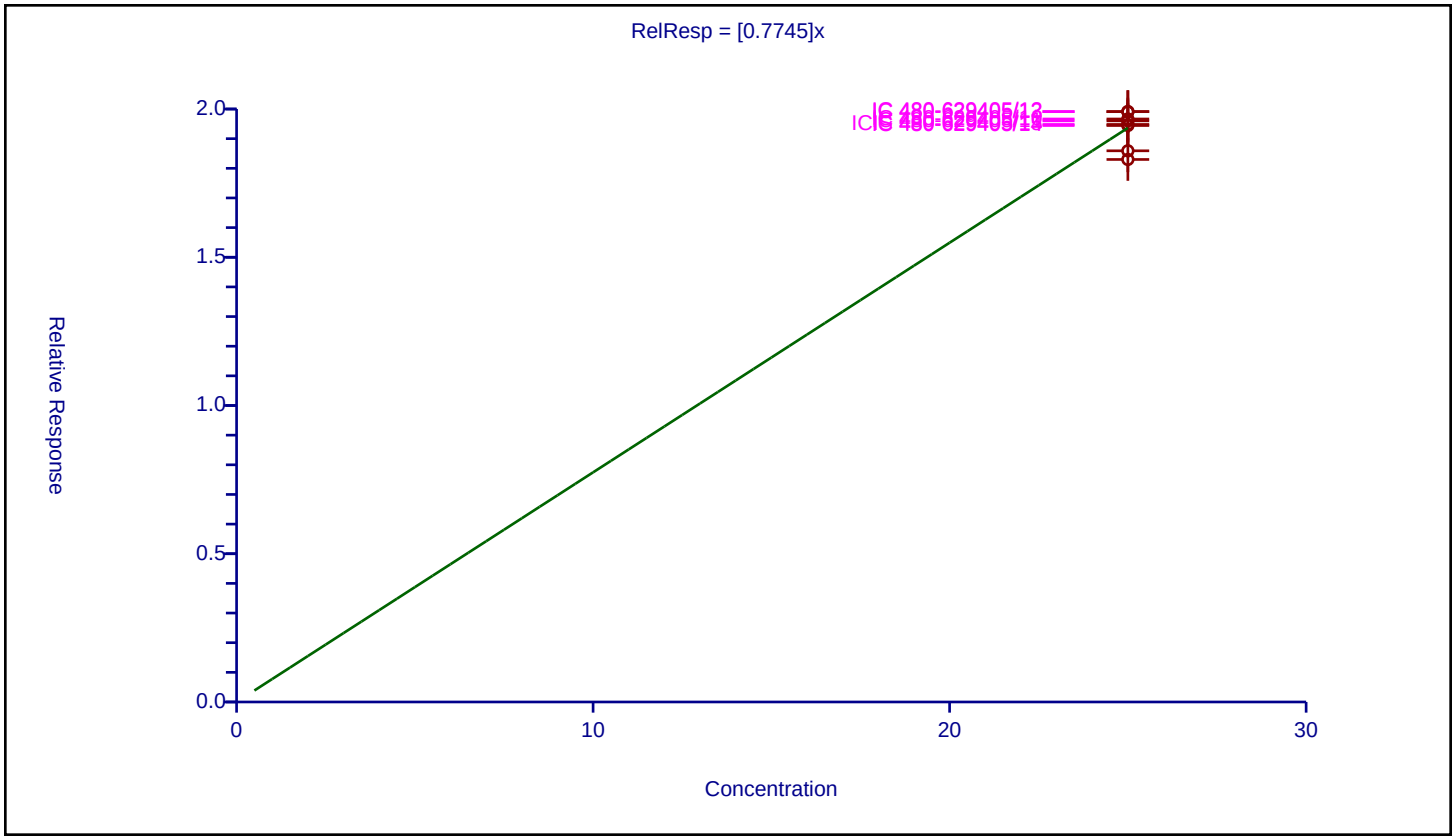
Curve Coefficients

Intercept:	0
Slope:	0.7745

Error Coefficients

Standard Error:	248000
Relative Standard Error:	3.1
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	25.0	19.663737	25.0	289074.0	0.786549	Y
2	IC 480-629405/11	25.0	19.600427	25.0	280462.0	0.784017	Y
3	IC 480-629405/12	25.0	19.913815	25.0	295064.0	0.796553	Y
4	IC 480-629405/13	25.0	19.910344	25.0	307619.0	0.796414	Y
5	IC 480-629405/14	25.0	19.443241	25.0	279385.0	0.77773	Y
6	ICIS 480-629405/15	25.0	19.479472	25.0	301108.0	0.779179	Y
7	IC 480-629405/16	25.0	18.590878	25.0	304640.0	0.743635	Y
8	IC 480-629405/17	25.0	18.29838	25.0	335542.0	0.731935	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

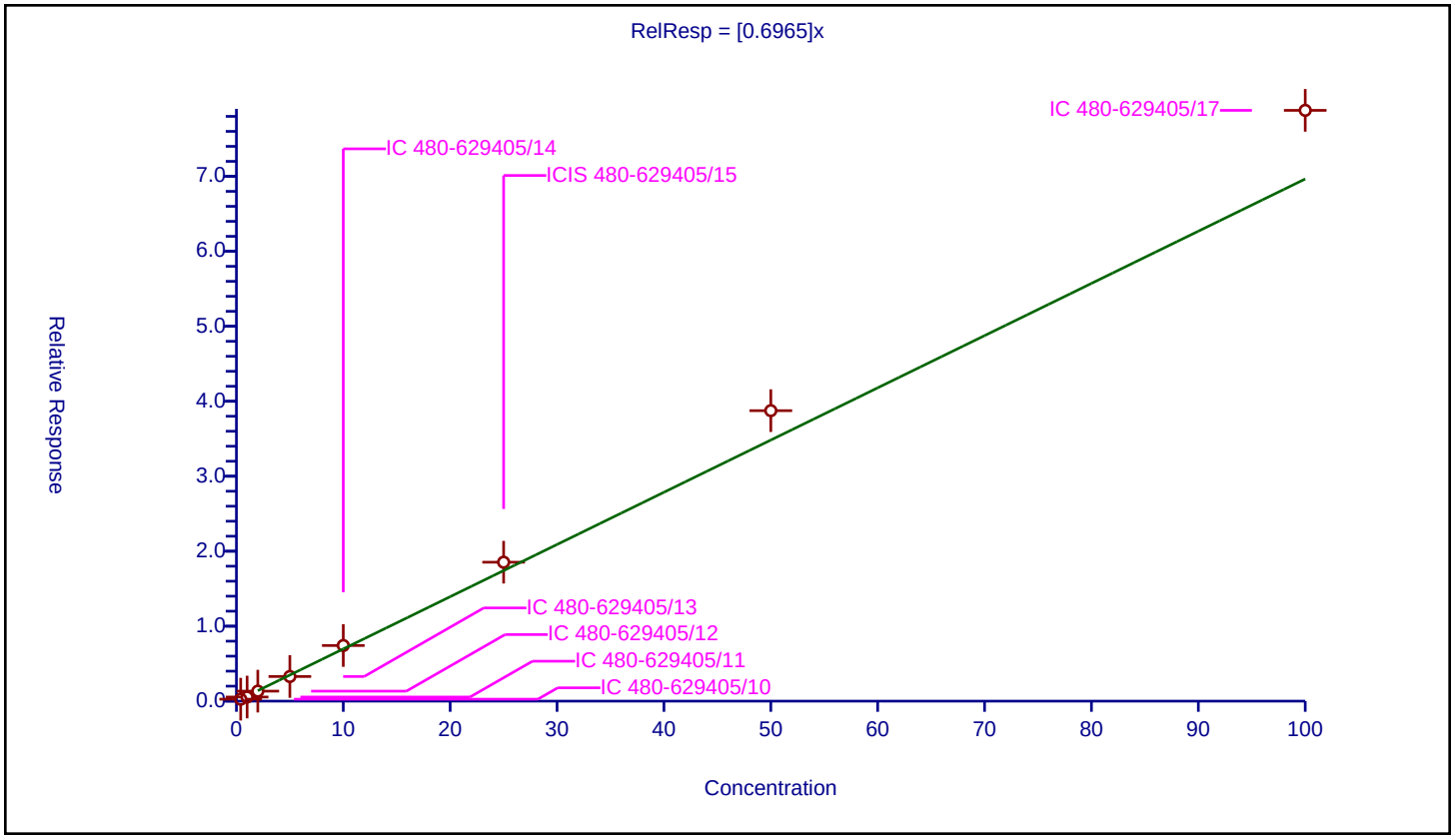
Curve Coefficients

Intercept:	0
Slope:	0.6965

Error Coefficients

Standard Error:	429000
Relative Standard Error:	11.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.26101	25.0	343378.0	0.652524	Y
2	IC 480-629405/11	1.0	0.550093	25.0	331035.0	0.550093	Y
3	IC 480-629405/12	2.0	1.332406	25.0	353327.0	0.666203	Y
4	IC 480-629405/13	5.0	3.28452	25.0	360555.0	0.656904	Y
5	IC 480-629405/14	10.0	7.420988	25.0	312199.0	0.742099	Y
6	ICIS 480-629405/15	25.0	18.531457	25.0	320818.0	0.741258	Y
7	IC 480-629405/16	50.0	38.747462	25.0	301372.0	0.774949	Y
8	IC 480-629405/17	100.0	78.805165	25.0	317956.0	0.788052	Y



Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

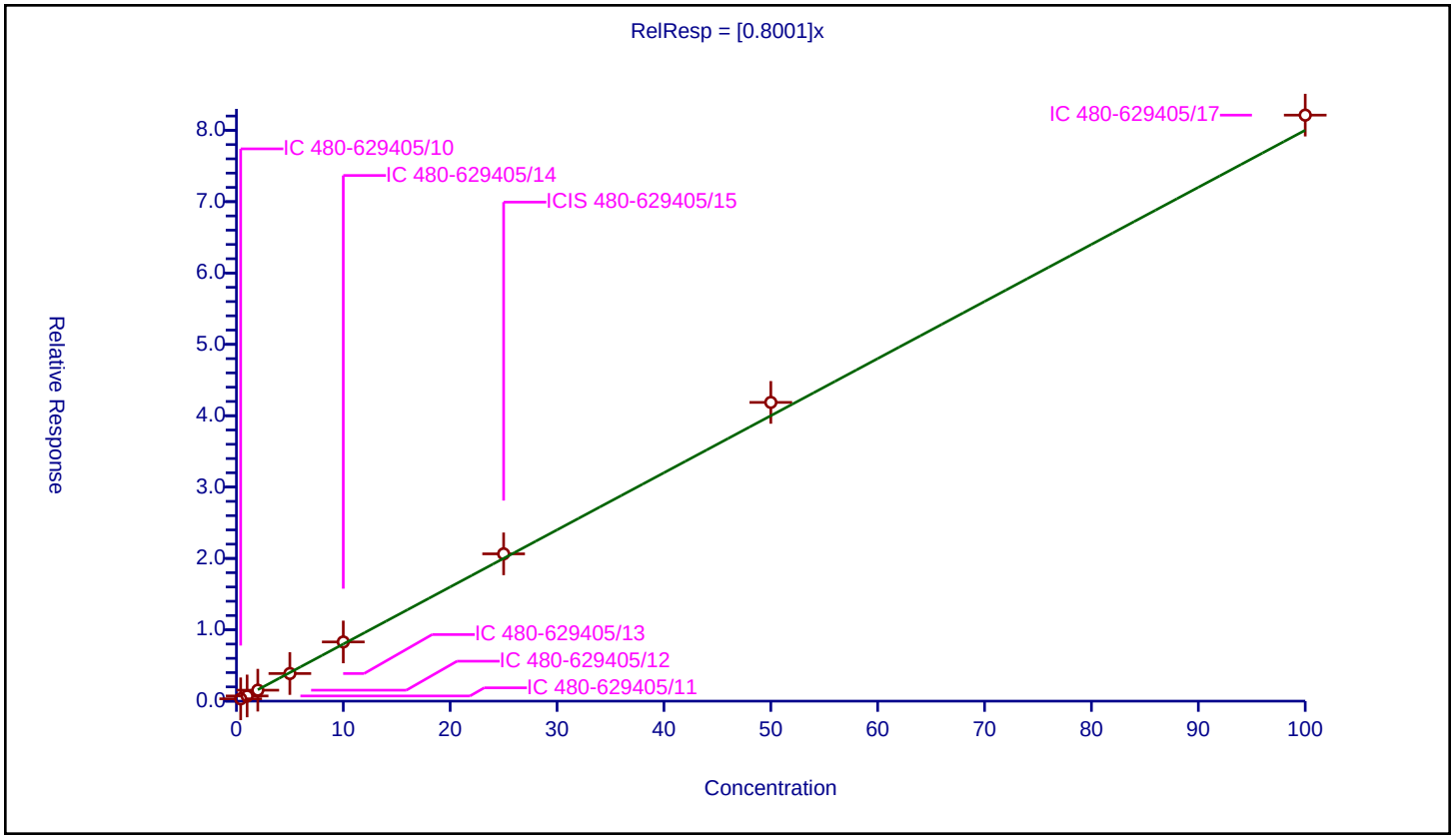
Curve Coefficients

Intercept:	0
Slope:	0.8001

Error Coefficients

Standard Error:	452000
Relative Standard Error:	5.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.328355	25.0	343378.0	0.820888	Y
2	IC 480-629405/11	1.0	0.724319	25.0	331035.0	0.724319	Y
3	IC 480-629405/12	2.0	1.535476	25.0	353327.0	0.767738	Y
4	IC 480-629405/13	5.0	3.869729	25.0	360555.0	0.773946	Y
5	IC 480-629405/14	10.0	8.297192	25.0	312199.0	0.829719	Y
6	ICIS 480-629405/15	25.0	20.642857	25.0	320818.0	0.825714	Y
7	IC 480-629405/16	50.0	41.866447	25.0	301372.0	0.837329	Y
8	IC 480-629405/17	100.0	82.125278	25.0	317956.0	0.821253	Y



Calibration / N-Propylbenzene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

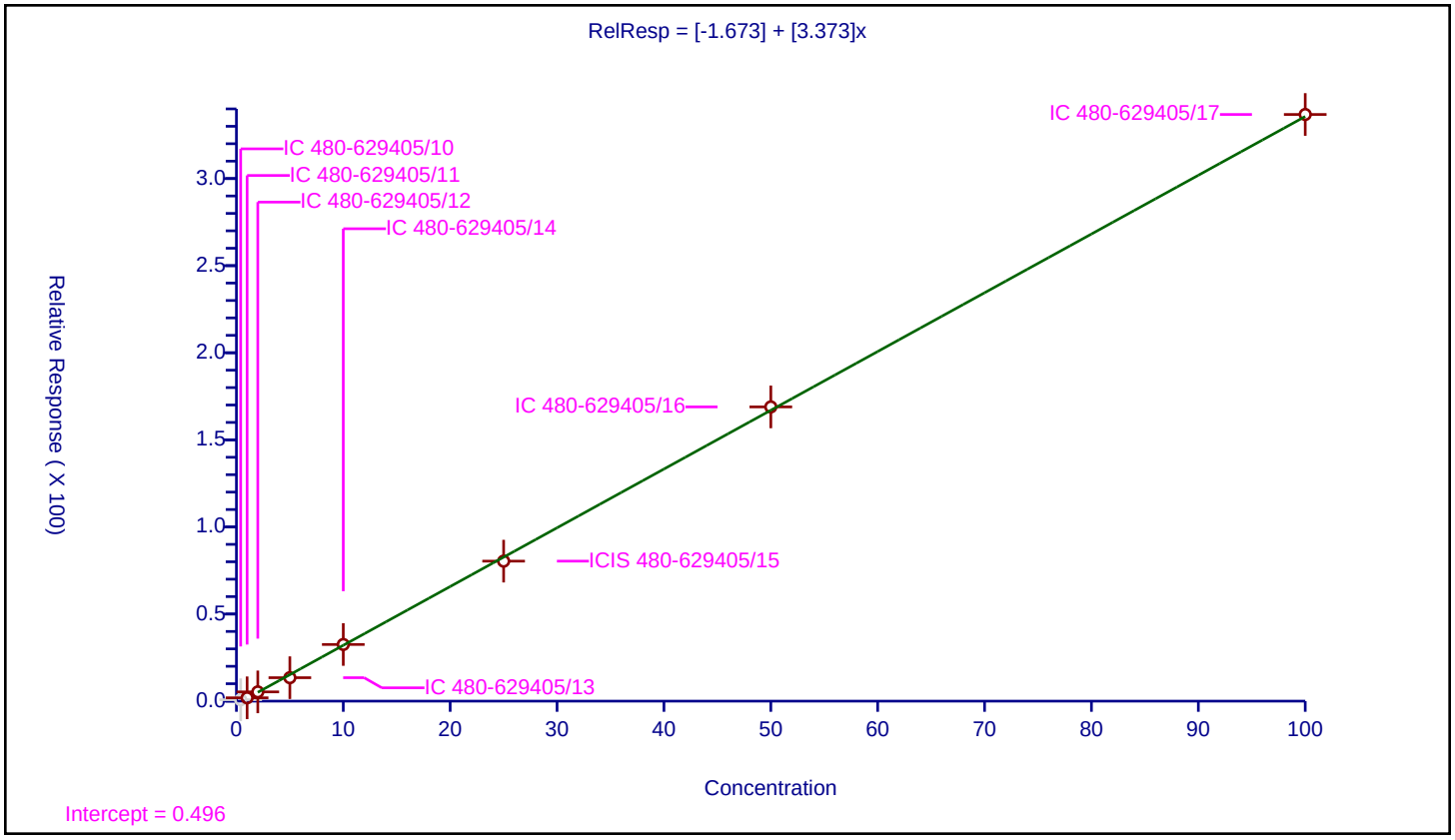
Curve Coefficients

Intercept:	-1.673
Slope:	3.373

Error Coefficients

Standard Error:	2180000
Relative Standard Error:	5.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.816738	25.0	343378.0	2.041846	N
2	IC 480-629405/11	1.0	1.922606	25.0	331035.0	1.922606	Y
3	IC 480-629405/12	2.0	5.308892	25.0	353327.0	2.654446	Y
4	IC 480-629405/13	5.0	13.455783	25.0	360555.0	2.691157	Y
5	IC 480-629405/14	10.0	32.533656	25.0	312199.0	3.253366	Y
6	ICIS 480-629405/15	25.0	80.36636	25.0	320818.0	3.214654	Y
7	IC 480-629405/16	50.0	168.91989	25.0	301372.0	3.378398	Y
8	IC 480-629405/17	100.0	336.784178	25.0	317956.0	3.367842	Y



Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

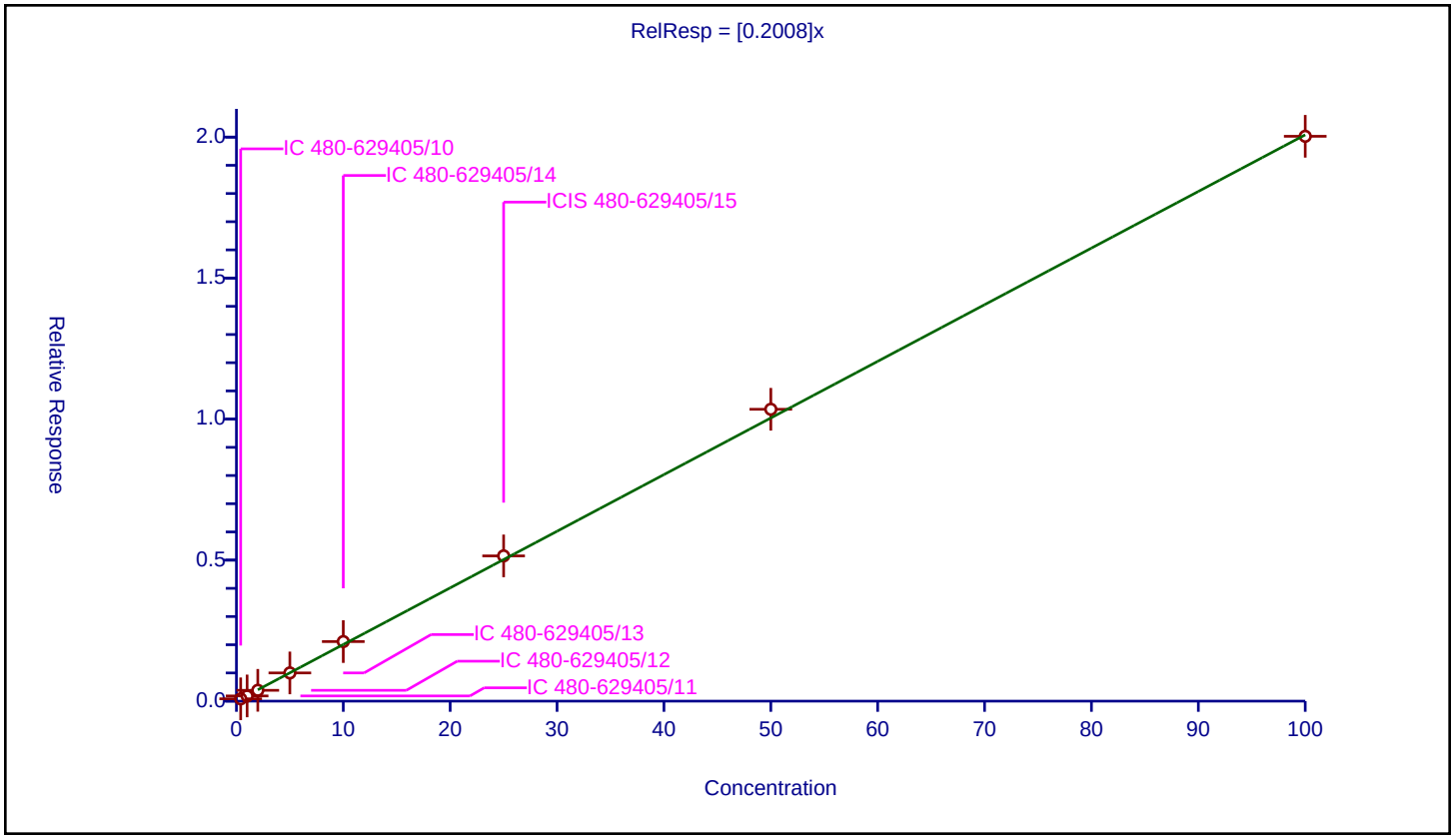
Curve Coefficients

Intercept:	0
Slope:	0.2008

Error Coefficients

Standard Error:	111000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.082198	25.0	343378.0	0.205495	Y
2	IC 480-629405/11	1.0	0.184271	25.0	331035.0	0.184271	Y
3	IC 480-629405/12	2.0	0.384063	25.0	353327.0	0.192032	Y
4	IC 480-629405/13	5.0	1.00068	25.0	360555.0	0.200136	Y
5	IC 480-629405/14	10.0	2.112595	25.0	312199.0	0.211259	Y
6	ICIS 480-629405/15	25.0	5.150584	25.0	320818.0	0.206023	Y
7	IC 480-629405/16	50.0	10.348838	25.0	301372.0	0.206977	Y
8	IC 480-629405/17	100.0	20.027771	25.0	317956.0	0.200278	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

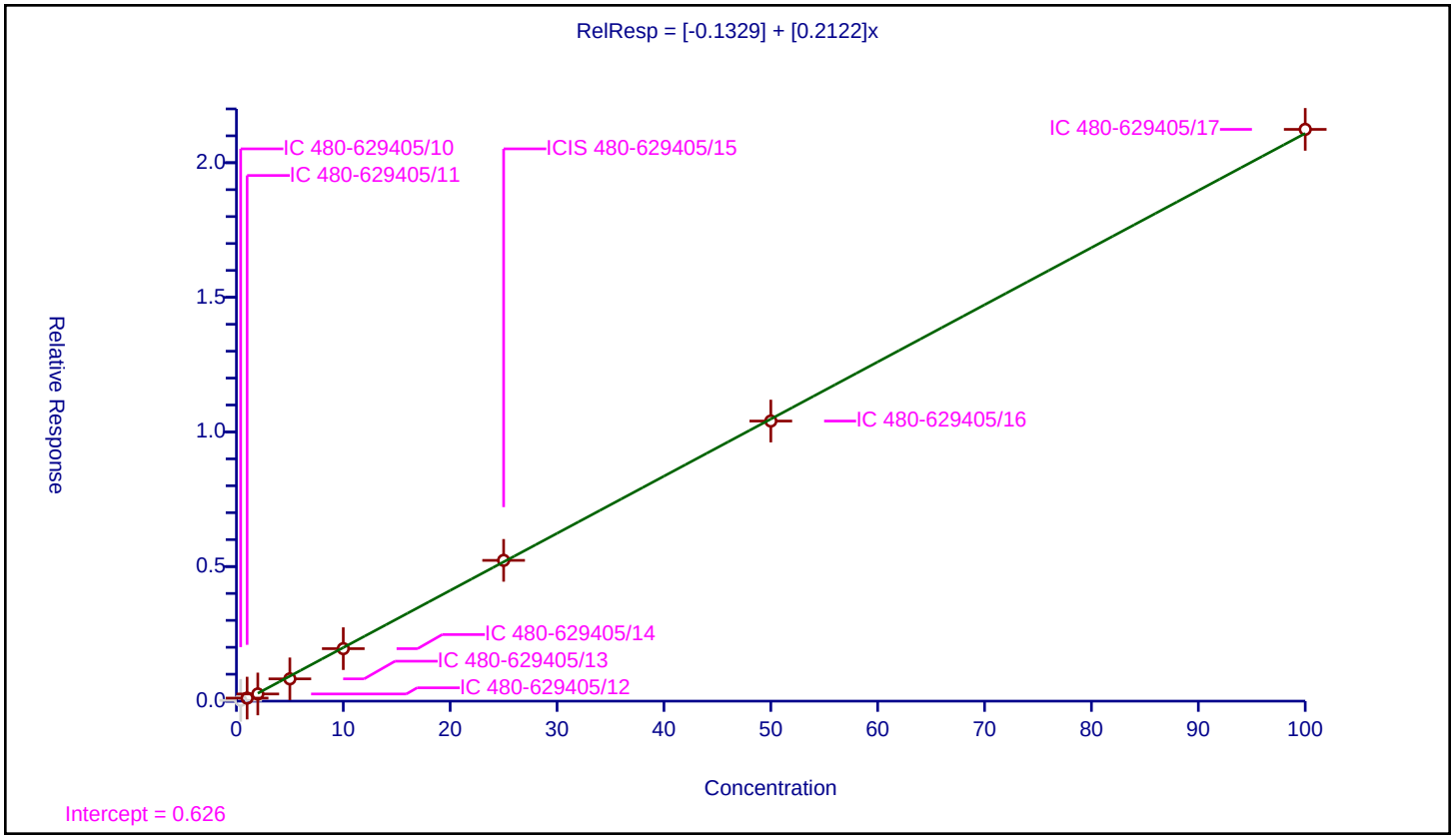
Curve Coefficients

Intercept:	-0.1329
Slope:	0.2122

Error Coefficients

Standard Error:	137000
Relative Standard Error:	8.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.029268	25.0	343378.0	0.07317	N
2	IC 480-629405/11	1.0	0.113508	25.0	331035.0	0.113508	Y
3	IC 480-629405/12	2.0	0.266962	25.0	353327.0	0.133481	Y
4	IC 480-629405/13	5.0	0.827266	25.0	360555.0	0.165453	Y
5	IC 480-629405/14	10.0	1.949238	25.0	312199.0	0.194924	Y
6	ICIS 480-629405/15	25.0	5.228899	25.0	320818.0	0.209156	Y
7	IC 480-629405/16	50.0	10.404168	25.0	301372.0	0.208083	Y
8	IC 480-629405/17	100.0	21.239338	25.0	317956.0	0.212393	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

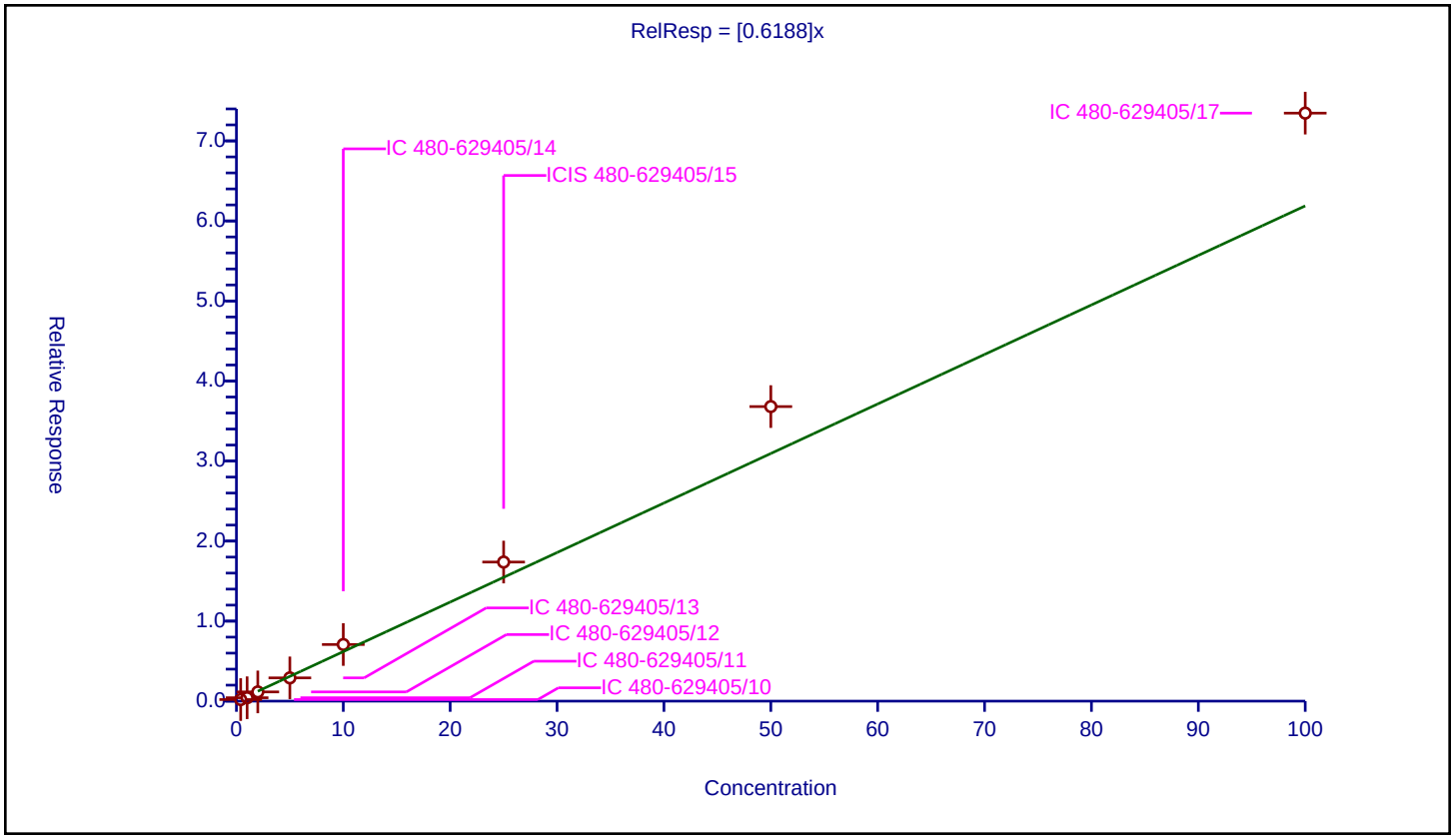
Curve Coefficients

Intercept:	0
Slope:	0.6188

Error Coefficients

Standard Error:	402000
Relative Standard Error:	19.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.961

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.198615	25.0	343378.0	0.496537	Y
2	IC 480-629405/11	1.0	0.423067	25.0	331035.0	0.423067	Y
3	IC 480-629405/12	2.0	1.151837	25.0	353327.0	0.575918	Y
4	IC 480-629405/13	5.0	2.90663	25.0	360555.0	0.581326	Y
5	IC 480-629405/14	10.0	7.077617	25.0	312199.0	0.707762	Y
6	ICIS 480-629405/15	25.0	17.378545	25.0	320818.0	0.695142	Y
7	IC 480-629405/16	50.0	36.80385	25.0	301372.0	0.736077	Y
8	IC 480-629405/17	100.0	73.469206	25.0	317956.0	0.734692	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

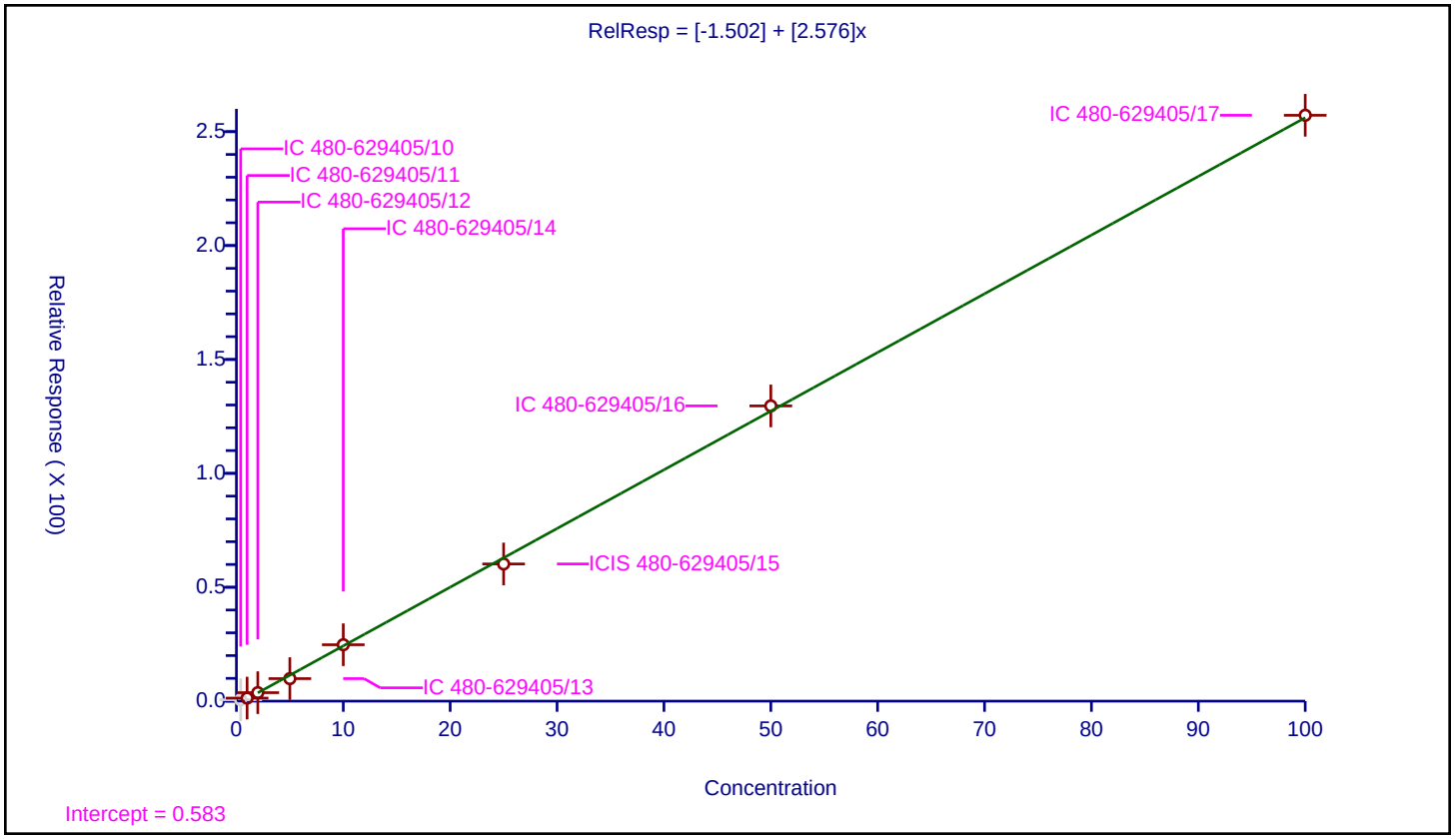
Curve Coefficients

Intercept:	-1.502
Slope:	2.576

Error Coefficients

Standard Error:	1660000
Relative Standard Error:	7.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.607275	25.0	343378.0	1.518188	N
2	IC 480-629405/11	1.0	1.339209	25.0	331035.0	1.339209	Y
3	IC 480-629405/12	2.0	3.723038	25.0	353327.0	1.861519	Y
4	IC 480-629405/13	5.0	9.885454	25.0	360555.0	1.977091	Y
5	IC 480-629405/14	10.0	24.755525	25.0	312199.0	2.475552	Y
6	ICIS 480-629405/15	25.0	60.217865	25.0	320818.0	2.408715	Y
7	IC 480-629405/16	50.0	129.61	25.0	301372.0	2.5922	Y
8	IC 480-629405/17	100.0	257.196436	25.0	317956.0	2.571964	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

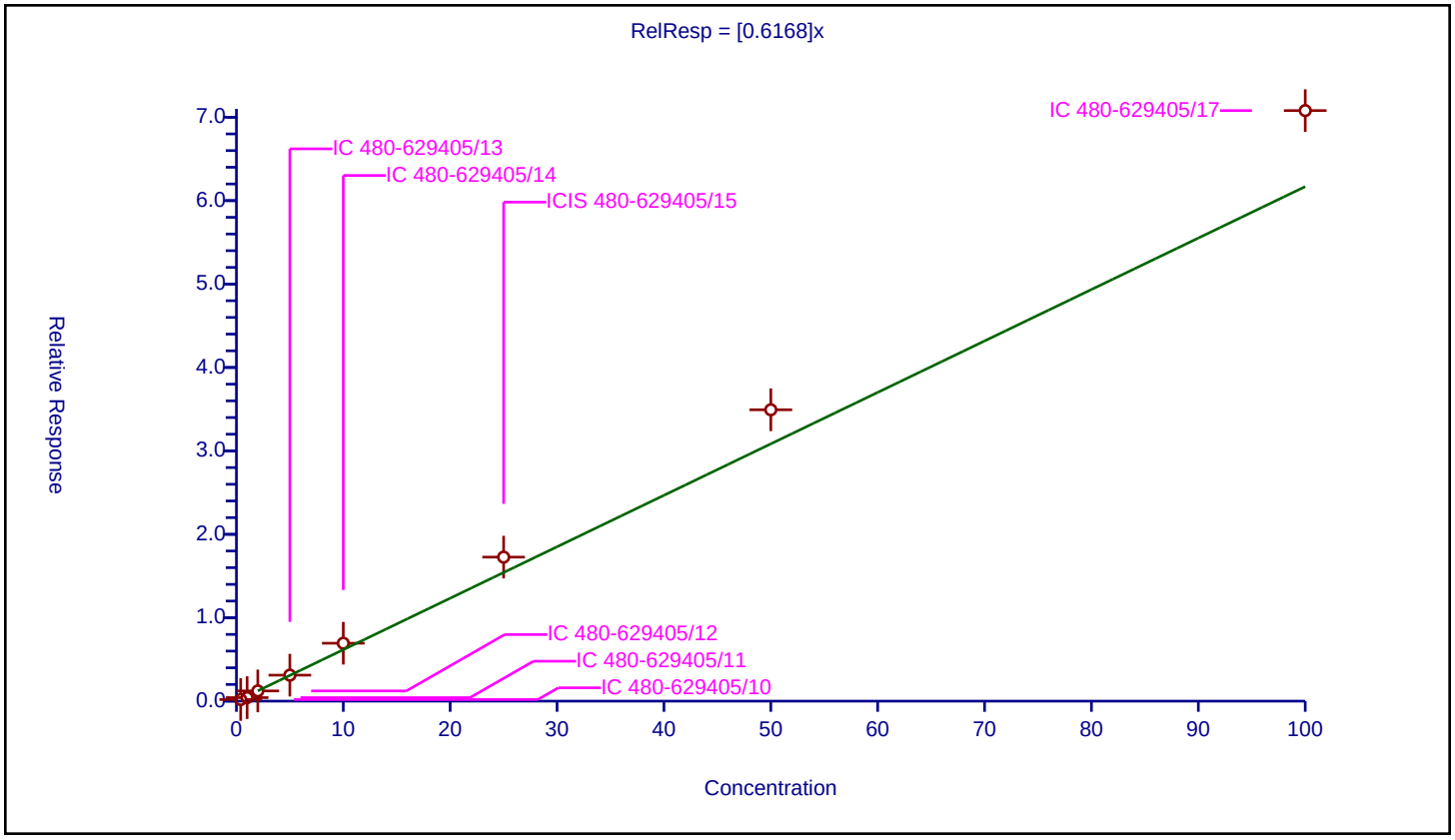
Curve Coefficients

Intercept:	0
Slope:	0.6168

Error Coefficients

Standard Error:	387000
Relative Standard Error:	17.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.967

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.194101	25.0	343378.0	0.485252	Y
2	IC 480-629405/11	1.0	0.422765	25.0	331035.0	0.422765	Y
3	IC 480-629405/12	2.0	1.224574	25.0	353327.0	0.612287	Y
4	IC 480-629405/13	5.0	3.114712	25.0	360555.0	0.622942	Y
5	IC 480-629405/14	10.0	6.943968	25.0	312199.0	0.694397	Y
6	ICIS 480-629405/15	25.0	17.264384	25.0	320818.0	0.690575	Y
7	IC 480-629405/16	50.0	34.928344	25.0	301372.0	0.698567	Y
8	IC 480-629405/17	100.0	70.796195	25.0	317956.0	0.707962	Y



Calibration / tert-Butylbenzene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

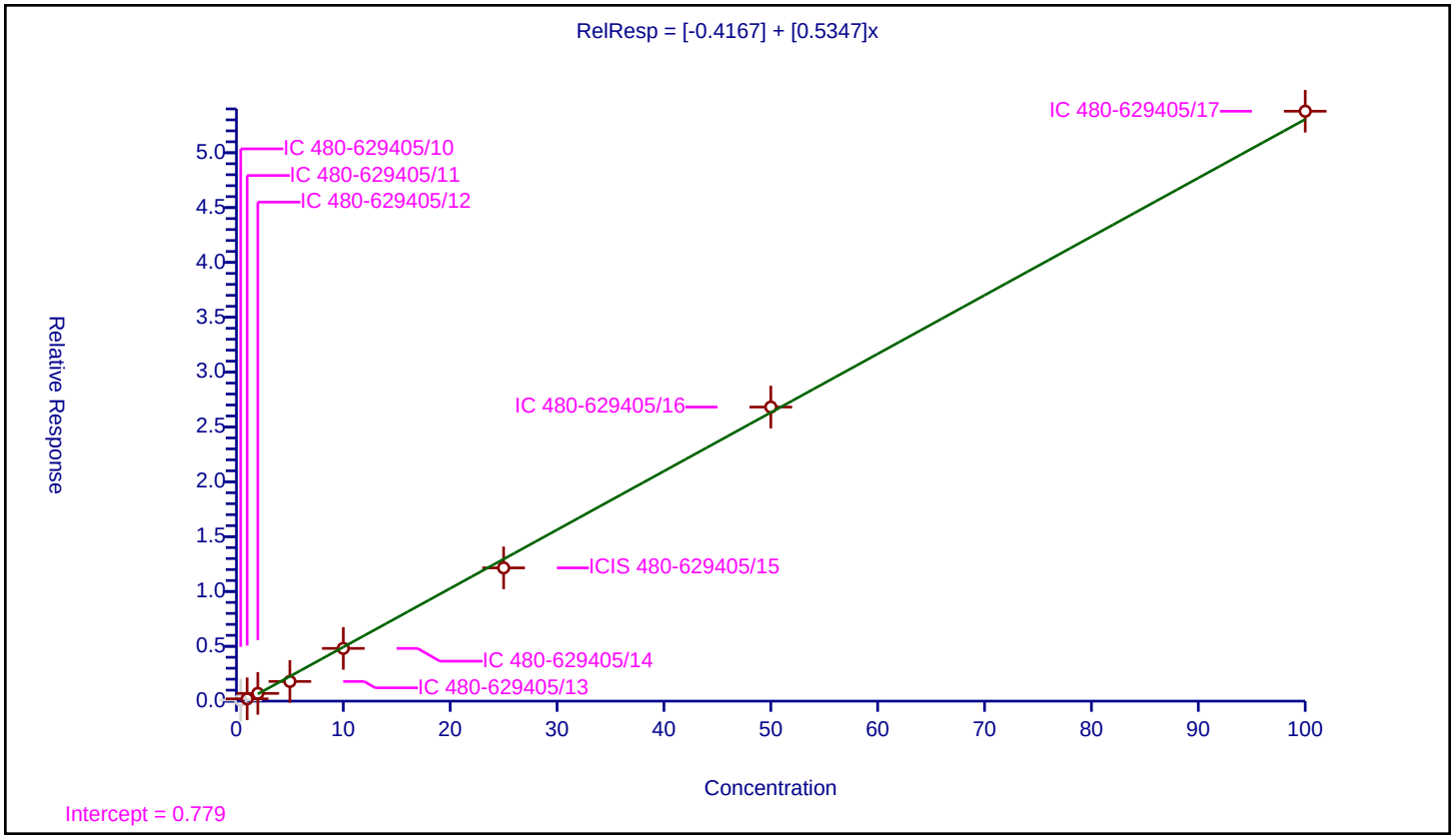
Curve Coefficients

Intercept:	-0.4167
Slope:	0.5347

Error Coefficients

Standard Error:	347000
Relative Standard Error:	11.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.099526	25.0	343378.0	0.248815	N
2	IC 480-629405/11	1.0	0.21108	25.0	331035.0	0.21108	Y
3	IC 480-629405/12	2.0	0.704588	25.0	353327.0	0.352294	Y
4	IC 480-629405/13	5.0	1.795149	25.0	360555.0	0.35903	Y
5	IC 480-629405/14	10.0	4.808632	25.0	312199.0	0.480863	Y
6	ICIS 480-629405/15	25.0	12.150269	25.0	320818.0	0.486011	Y
7	IC 480-629405/16	50.0	26.813042	25.0	301372.0	0.536261	Y
8	IC 480-629405/17	100.0	53.789046	25.0	317956.0	0.53789	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

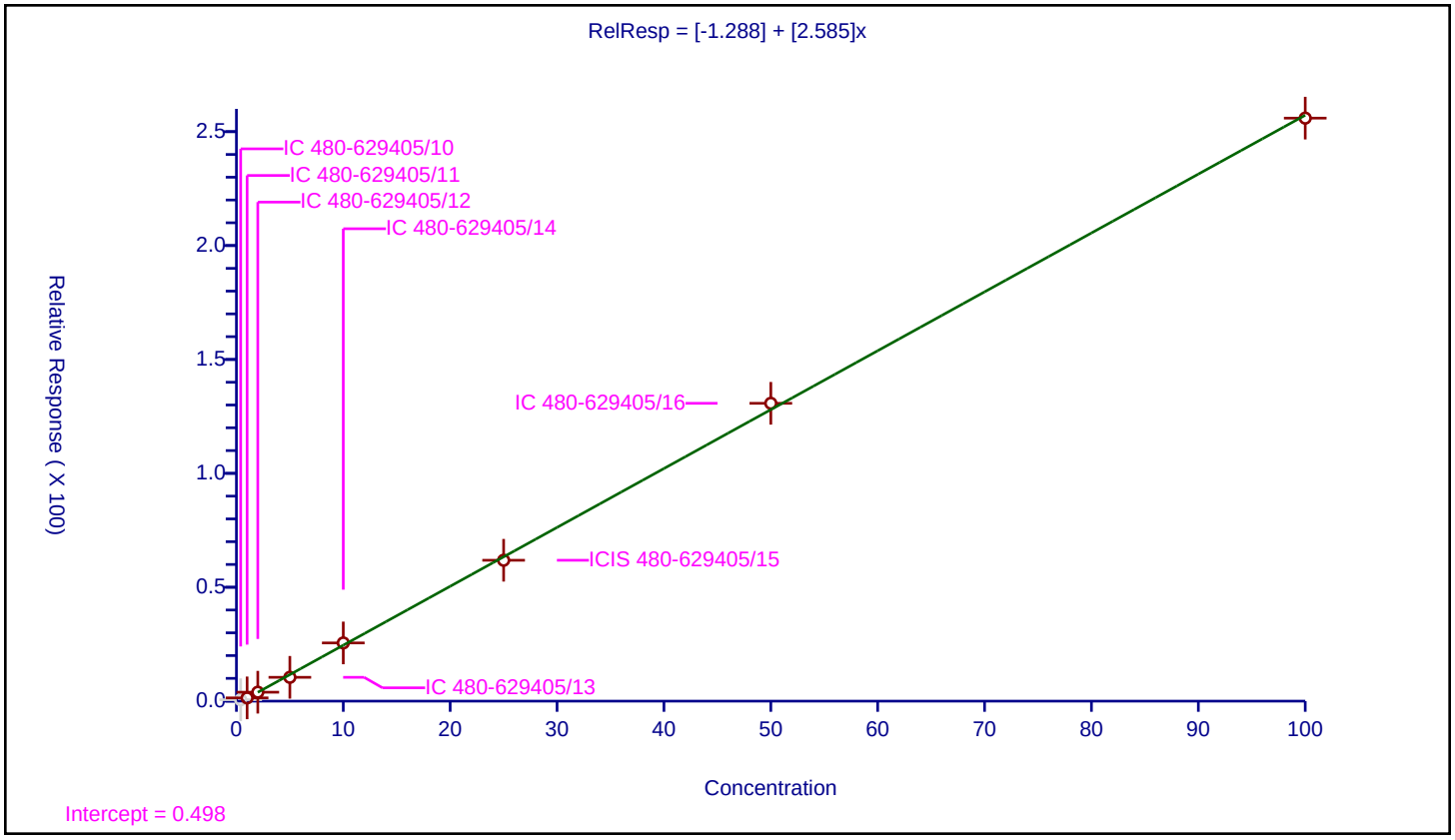
Curve Coefficients

Intercept:	-1.288
Slope:	2.585

Error Coefficients

Standard Error:	1660000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.622419	25.0	343378.0	1.556048	N
2	IC 480-629405/11	1.0	1.430664	25.0	331035.0	1.430664	Y
3	IC 480-629405/12	2.0	3.918962	25.0	353327.0	1.959481	Y
4	IC 480-629405/13	5.0	10.461719	25.0	360555.0	2.092344	Y
5	IC 480-629405/14	10.0	25.554454	25.0	312199.0	2.555445	Y
6	ICIS 480-629405/15	25.0	61.847839	25.0	320818.0	2.473914	Y
7	IC 480-629405/16	50.0	130.753852	25.0	301372.0	2.615077	Y
8	IC 480-629405/17	100.0	255.939737	25.0	317956.0	2.559397	Y



Calibration / sec-Butylbenzene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

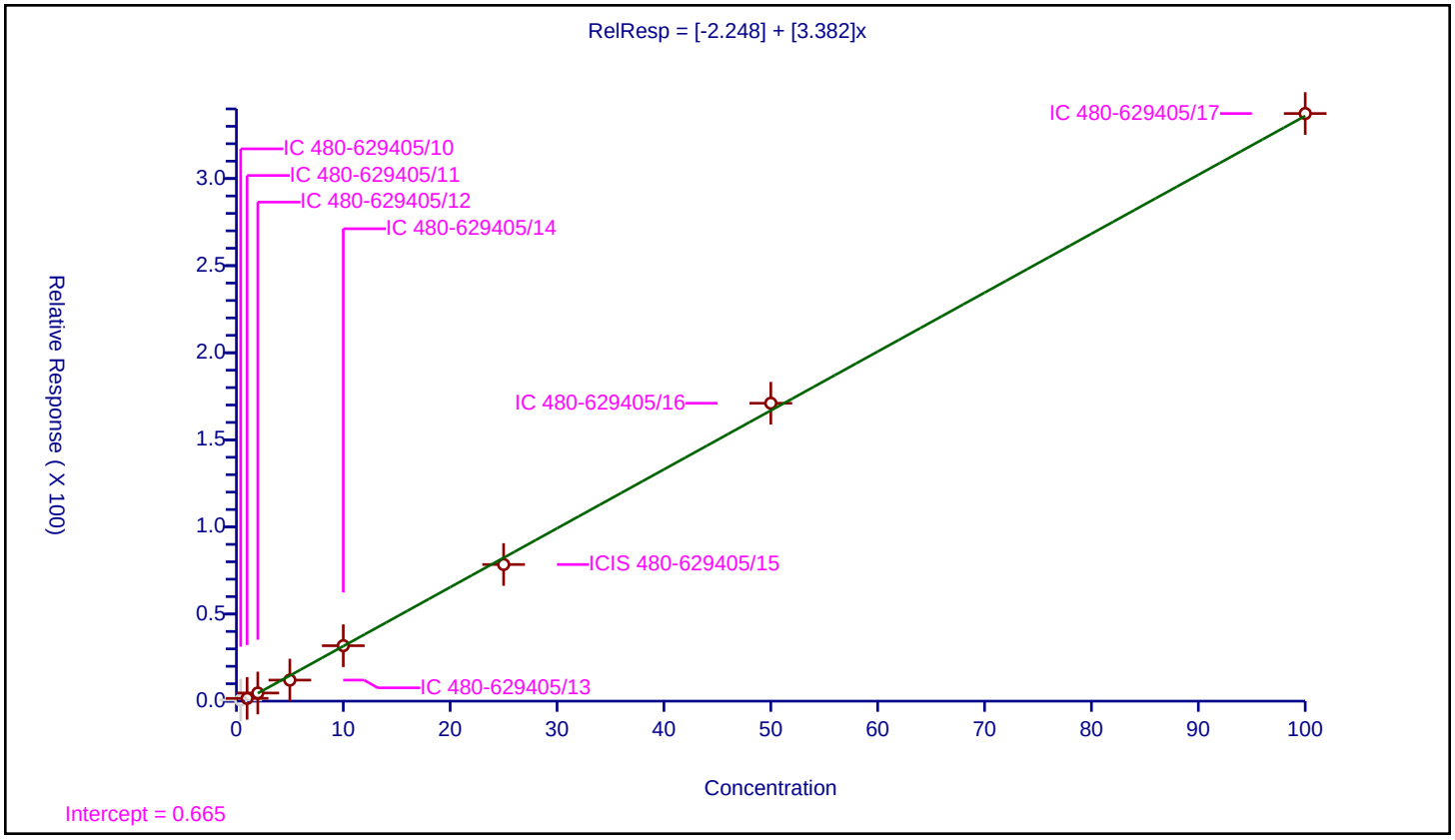
Curve Coefficients

Intercept:	-2.248
Slope:	3.382

Error Coefficients

Standard Error:	2180000
Relative Standard Error:	9.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.646518	25.0	343378.0	1.616295	N
2	IC 480-629405/11	1.0	1.598698	25.0	331035.0	1.598698	Y
3	IC 480-629405/12	2.0	4.677749	25.0	353327.0	2.338874	Y
4	IC 480-629405/13	5.0	12.089903	25.0	360555.0	2.417981	Y
5	IC 480-629405/14	10.0	31.827456	25.0	312199.0	3.182746	Y
6	ICIS 480-629405/15	25.0	78.446035	25.0	320818.0	3.137841	Y
7	IC 480-629405/16	50.0	171.023104	25.0	301372.0	3.420462	Y
8	IC 480-629405/17	100.0	337.338421	25.0	317956.0	3.373384	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

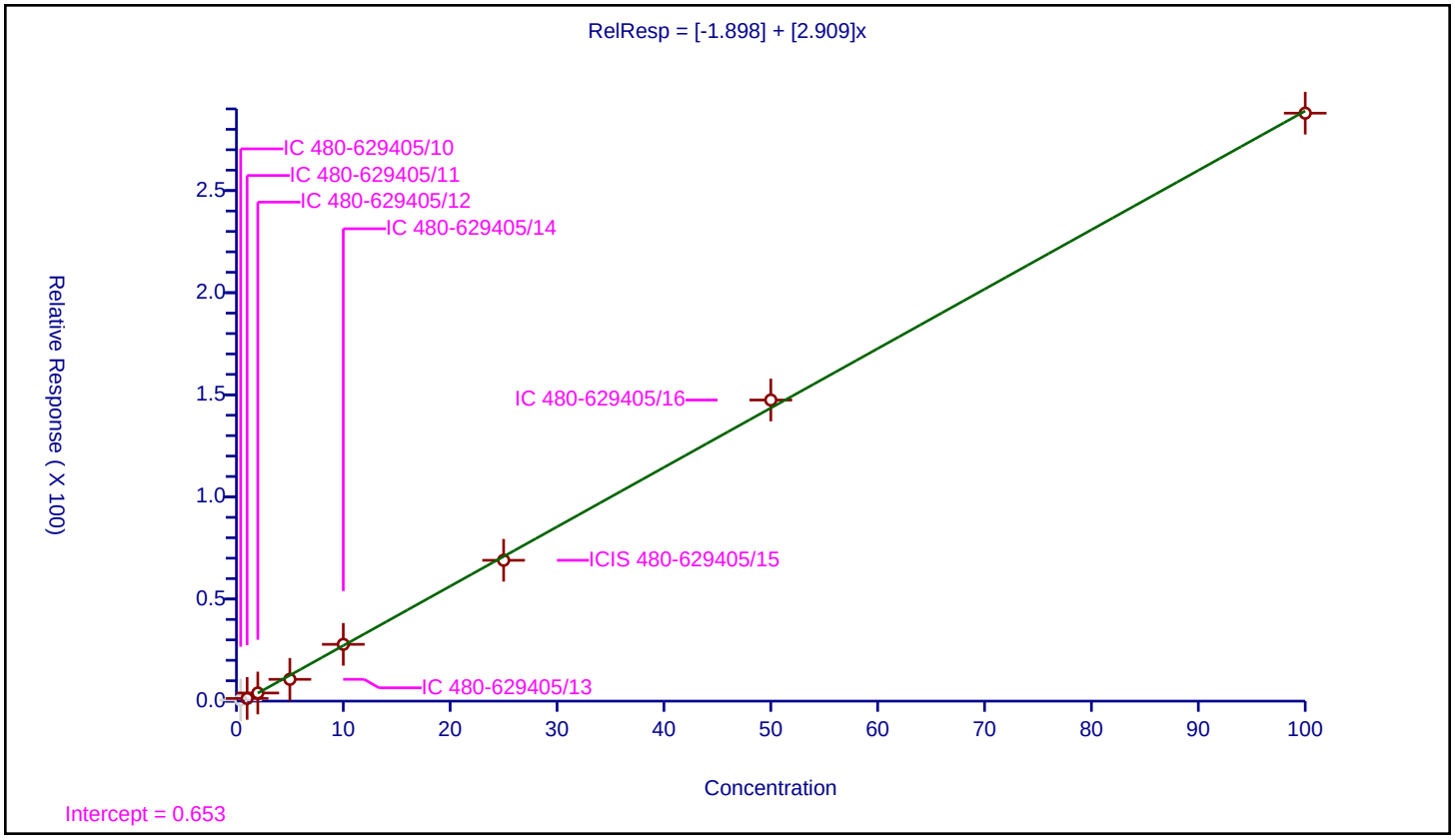
Curve Coefficients

Intercept:	-1.898
Slope:	2.909

Error Coefficients

Standard Error:	1870000
Relative Standard Error:	7.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.567596	25.0	343378.0	1.41899	N
2	IC 480-629405/11	1.0	1.31761	25.0	331035.0	1.31761	Y
3	IC 480-629405/12	2.0	3.982784	25.0	353327.0	1.991392	Y
4	IC 480-629405/13	5.0	10.677428	25.0	360555.0	2.135486	Y
5	IC 480-629405/14	10.0	27.805262	25.0	312199.0	2.780526	Y
6	ICIS 480-629405/15	25.0	68.968231	25.0	320818.0	2.758729	Y
7	IC 480-629405/16	50.0	147.441866	25.0	301372.0	2.948837	Y
8	IC 480-629405/17	100.0	287.915859	25.0	317956.0	2.879159	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

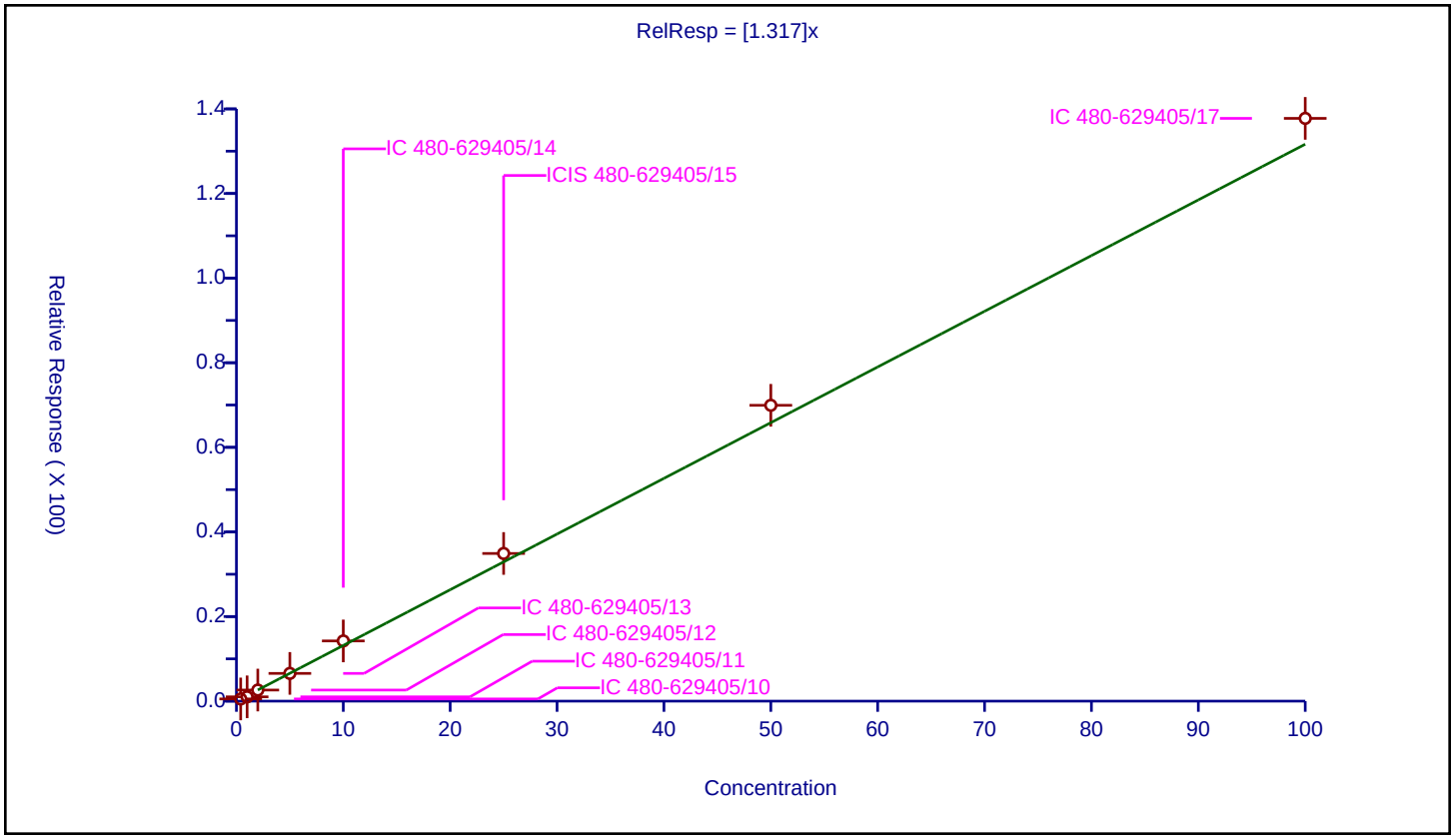
Curve Coefficients

Intercept:	0
Slope:	1.317

Error Coefficients

Standard Error:	758000
Relative Standard Error:	9.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.517651	25.0	343378.0	1.294128	Y
2	IC 480-629405/11	1.0	1.018019	25.0	331035.0	1.018019	Y
3	IC 480-629405/12	2.0	2.624976	25.0	353327.0	1.312488	Y
4	IC 480-629405/13	5.0	6.558431	25.0	360555.0	1.311686	Y
5	IC 480-629405/14	10.0	14.23339	25.0	312199.0	1.423339	Y
6	ICIS 480-629405/15	25.0	34.90624	25.0	320818.0	1.39625	Y
7	IC 480-629405/16	50.0	69.931513	25.0	301372.0	1.39863	Y
8	IC 480-629405/17	100.0	137.758448	25.0	317956.0	1.377584	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

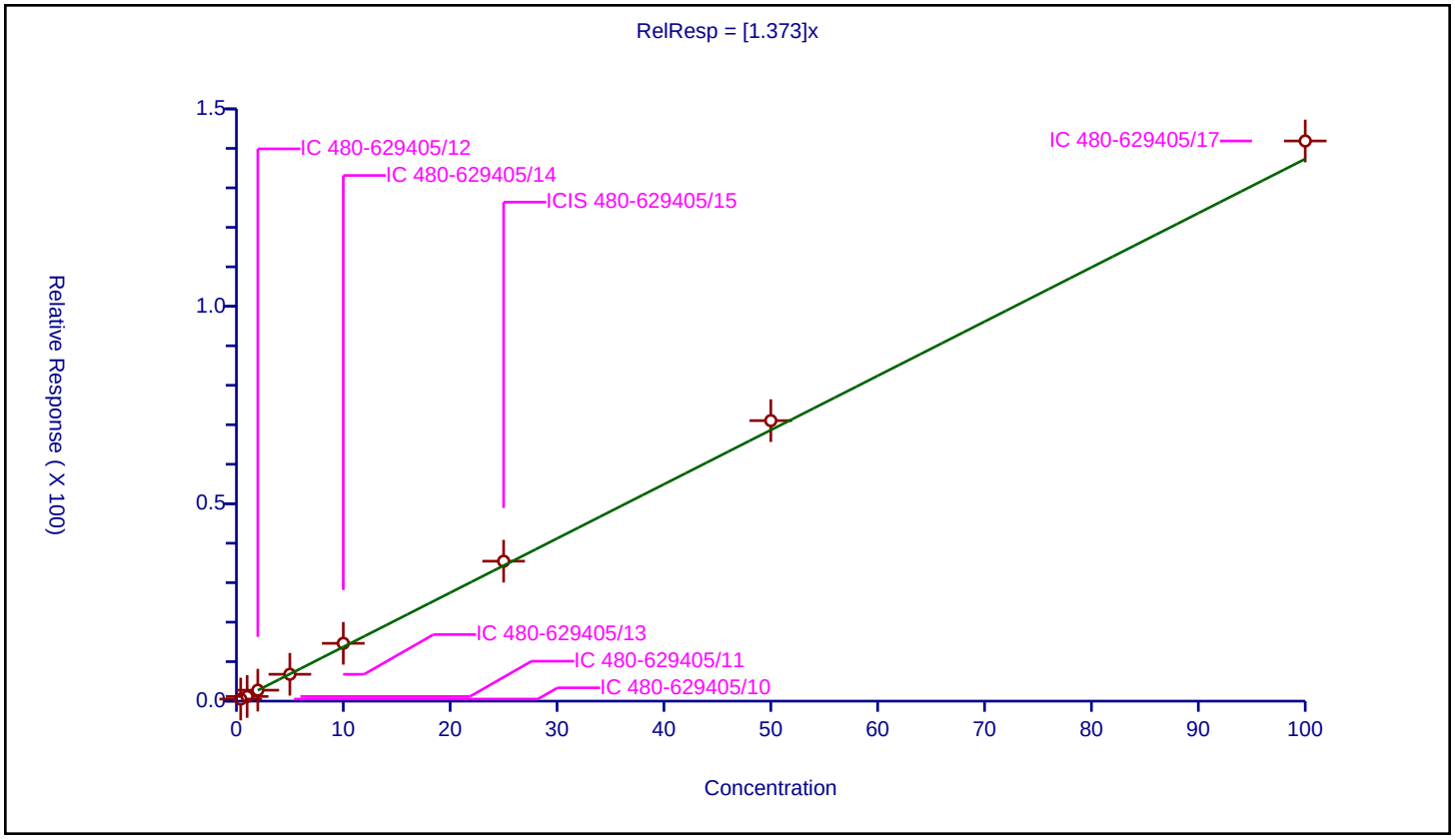
Curve Coefficients

Intercept:	0
Slope:	1.373

Error Coefficients

Standard Error:	778000
Relative Standard Error:	6.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.531557	25.0	343378.0	1.328893	Y
2	IC 480-629405/11	1.0	1.184089	25.0	331035.0	1.184089	Y
3	IC 480-629405/12	2.0	2.778941	25.0	353327.0	1.389471	Y
4	IC 480-629405/13	5.0	6.806104	25.0	360555.0	1.361221	Y
5	IC 480-629405/14	10.0	14.643785	25.0	312199.0	1.464378	Y
6	ICIS 480-629405/15	25.0	35.445486	25.0	320818.0	1.417819	Y
7	IC 480-629405/16	50.0	71.047078	25.0	301372.0	1.420942	Y
8	IC 480-629405/17	100.0	141.876313	25.0	317956.0	1.418763	Y



Calibration / n-Butylbenzene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

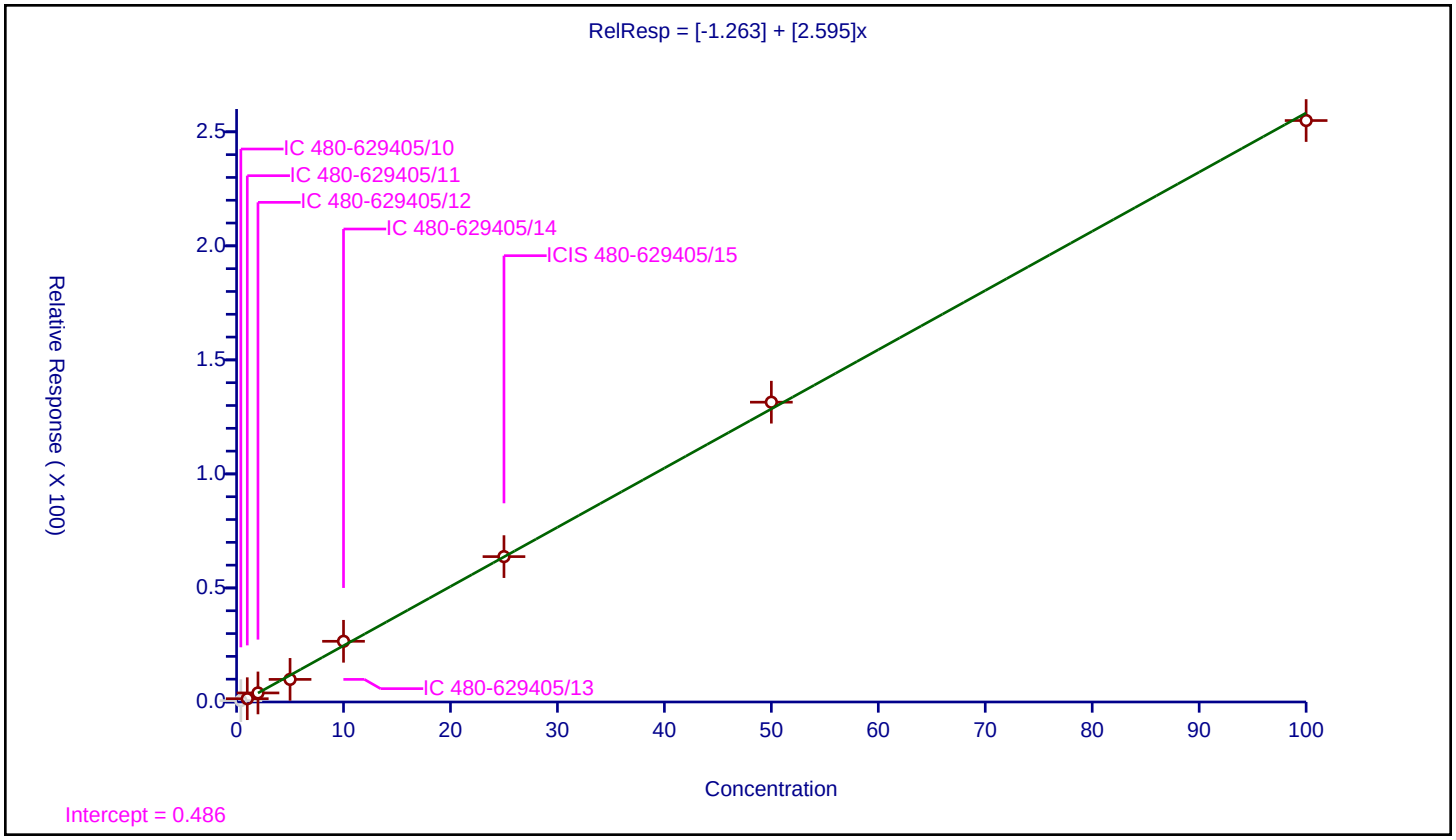
Curve Coefficients

Intercept:	-1.263
Slope:	2.595

Error Coefficients

Standard Error:	1660000
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.603708	25.0	343378.0	1.50927	N
2	IC 480-629405/11	1.0	1.449394	25.0	331035.0	1.449394	Y
3	IC 480-629405/12	2.0	3.97217	25.0	353327.0	1.986085	Y
4	IC 480-629405/13	5.0	9.907781	25.0	360555.0	1.981556	Y
5	IC 480-629405/14	10.0	26.620681	25.0	312199.0	2.662068	Y
6	ICIS 480-629405/15	25.0	63.738085	25.0	320818.0	2.549523	Y
7	IC 480-629405/16	50.0	131.447679	25.0	301372.0	2.628954	Y
8	IC 480-629405/17	100.0	254.950842	25.0	317956.0	2.549508	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

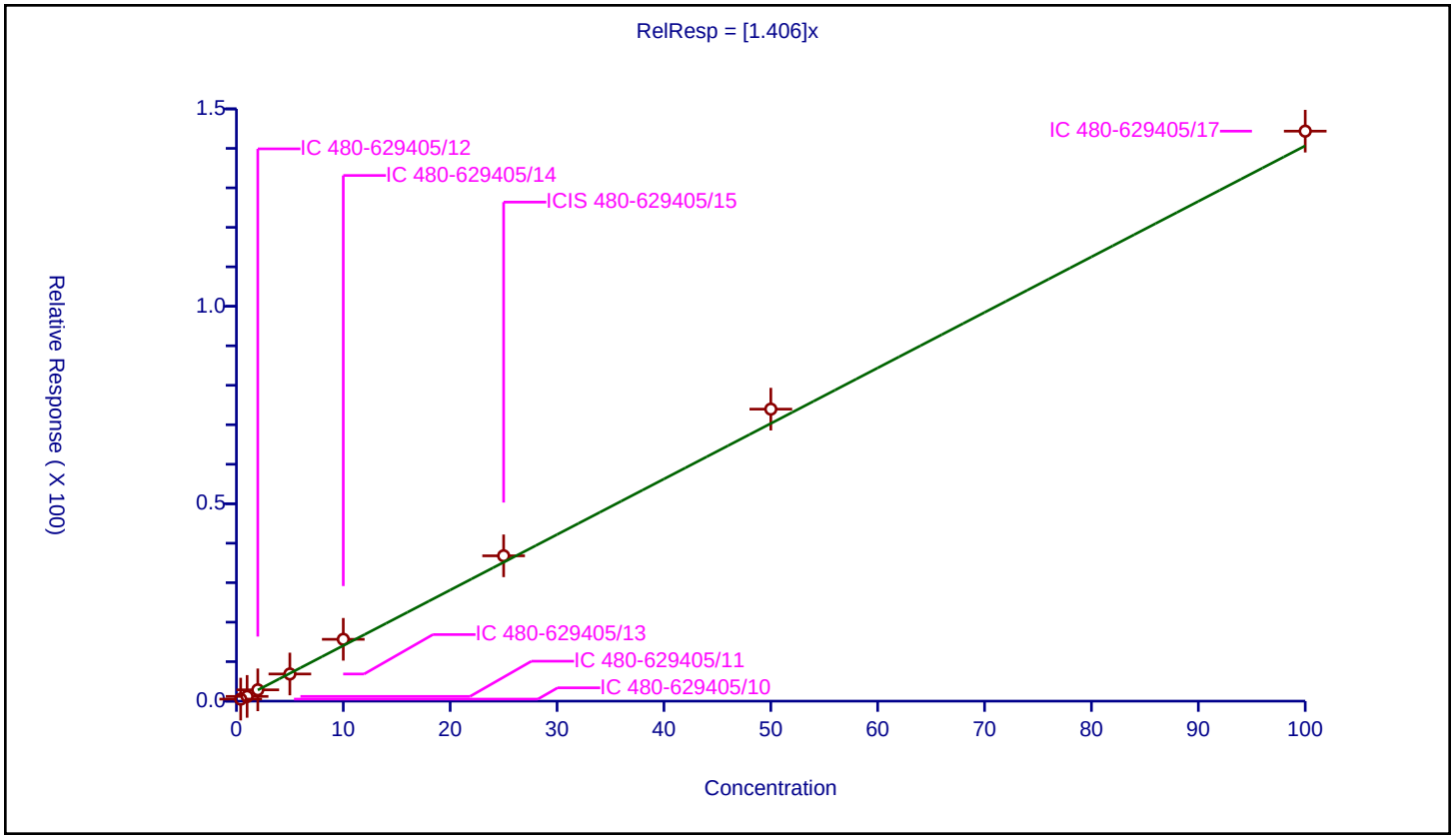
Curve Coefficients

Intercept:	0
Slope:	1.406

Error Coefficients

Standard Error:	796000
Relative Standard Error:	8.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.513865	25.0	343378.0	1.284663	Y
2	IC 480-629405/11	1.0	1.198665	25.0	331035.0	1.198665	Y
3	IC 480-629405/12	2.0	2.863707	25.0	353327.0	1.431853	Y
4	IC 480-629405/13	5.0	6.879394	25.0	360555.0	1.375879	Y
5	IC 480-629405/14	10.0	15.657321	25.0	312199.0	1.565732	Y
6	ICIS 480-629405/15	25.0	36.808486	25.0	320818.0	1.472339	Y
7	IC 480-629405/16	50.0	73.955444	25.0	301372.0	1.479109	Y
8	IC 480-629405/17	100.0	144.361641	25.0	317956.0	1.443616	Y



Calibration / 1,2-Dibromo-3-Chloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

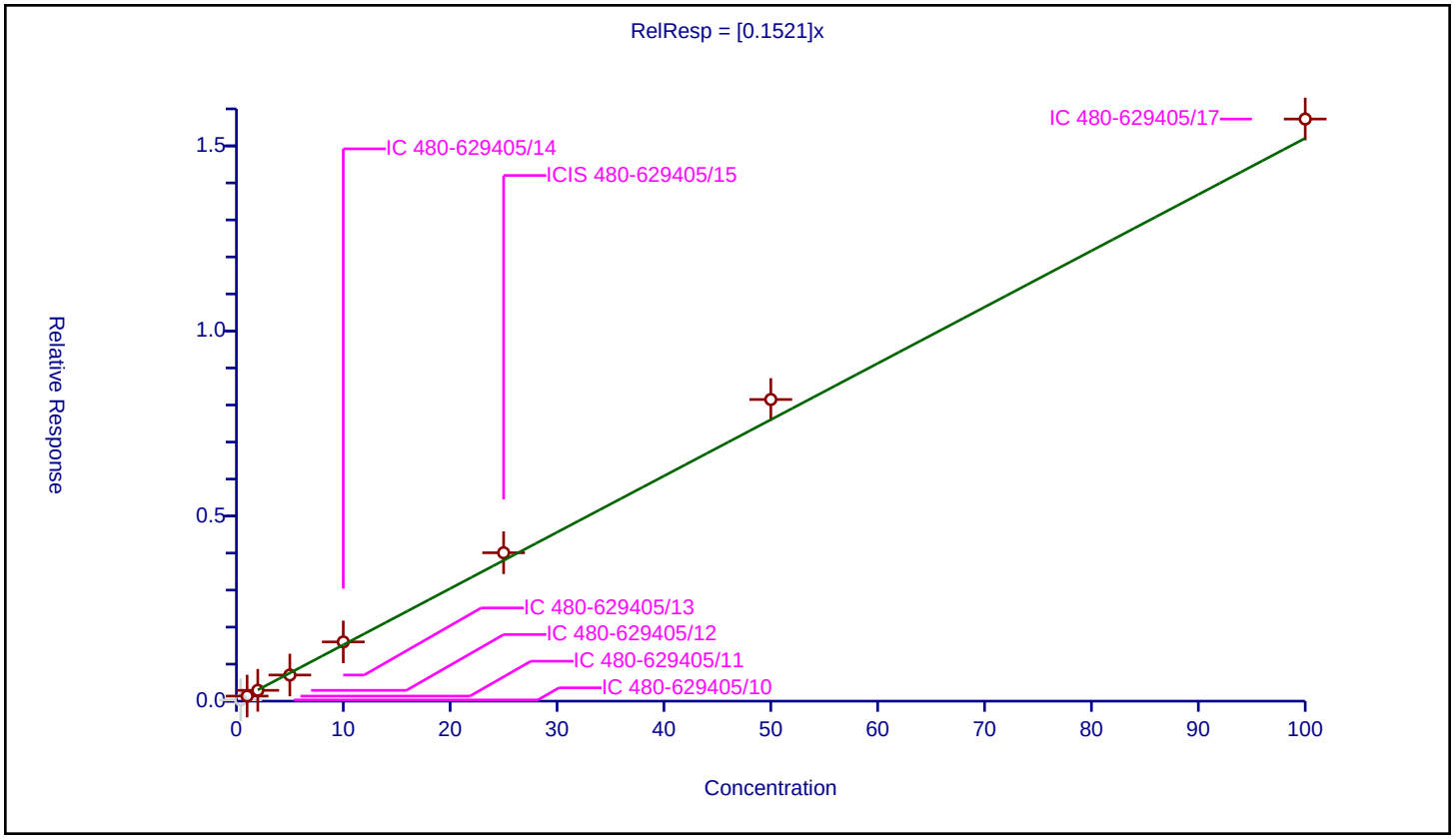
Curve Coefficients

Intercept:	0
Slope:	0.1521

Error Coefficients

Standard Error:	93800
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.032908	25.0	343378.0	0.082271	N
2	IC 480-629405/11	1.0	0.136844	25.0	331035.0	0.136844	Y
3	IC 480-629405/12	2.0	0.29201	25.0	353327.0	0.146005	Y
4	IC 480-629405/13	5.0	0.70551	25.0	360555.0	0.141102	Y
5	IC 480-629405/14	10.0	1.599541	25.0	312199.0	0.159954	Y
6	ICIS 480-629405/15	25.0	4.008971	25.0	320818.0	0.160359	Y
7	IC 480-629405/16	50.0	8.148982	25.0	301372.0	0.16298	Y
8	IC 480-629405/17	100.0	15.726154	25.0	317956.0	0.157262	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

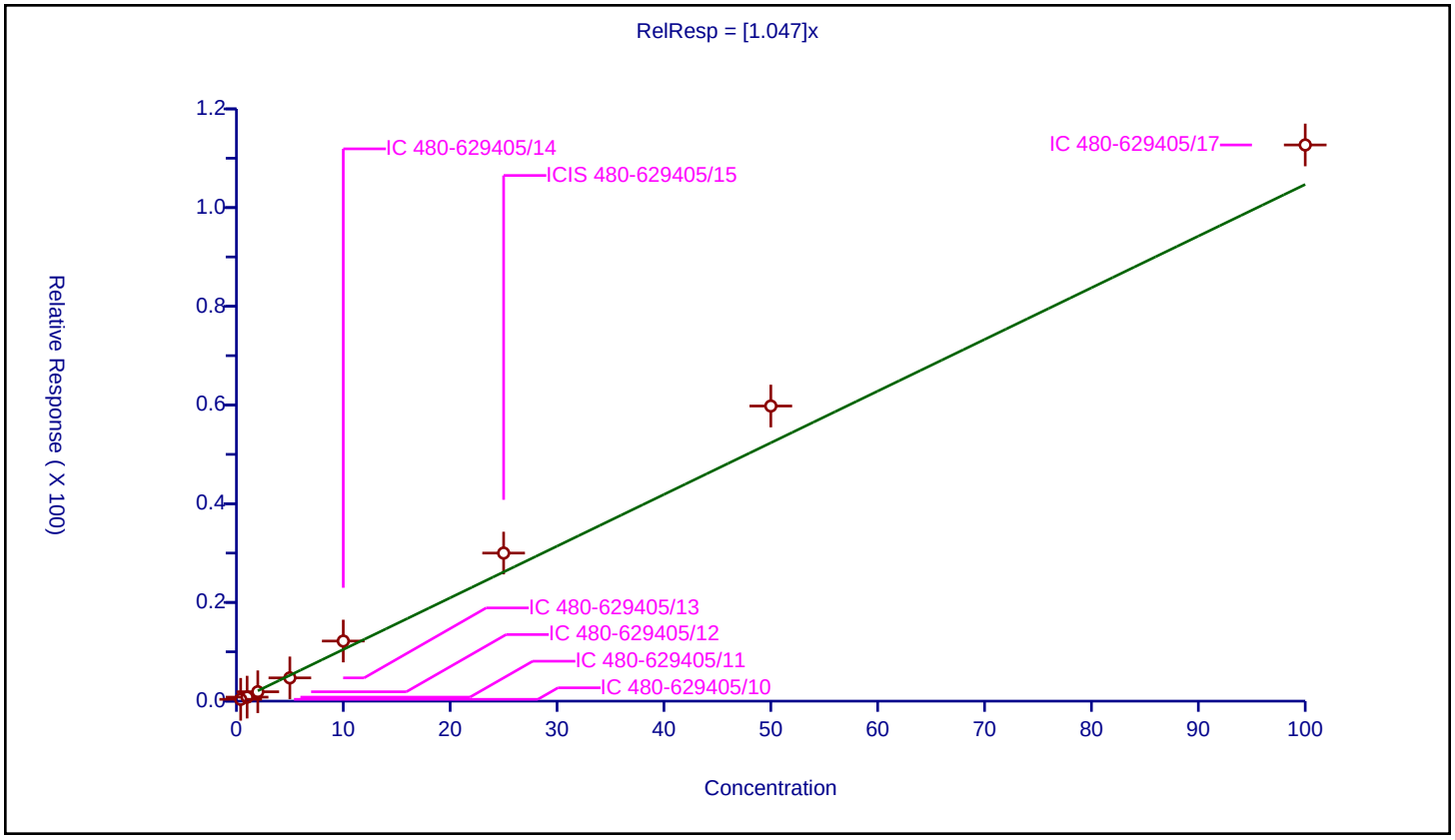
Curve Coefficients

Intercept:	0
Slope:	1.047

Error Coefficients

Standard Error:	627000
Relative Standard Error:	14.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.371457	25.0	343378.0	0.928641	Y
2	IC 480-629405/11	1.0	0.811395	25.0	331035.0	0.811395	Y
3	IC 480-629405/12	2.0	1.902982	25.0	353327.0	0.951491	Y
4	IC 480-629405/13	5.0	4.715231	25.0	360555.0	0.943046	Y
5	IC 480-629405/14	10.0	12.178931	25.0	312199.0	1.217893	Y
6	ICIS 480-629405/15	25.0	30.000499	25.0	320818.0	1.20002	Y
7	IC 480-629405/16	50.0	59.798687	25.0	301372.0	1.195974	Y
8	IC 480-629405/17	100.0	112.692794	25.0	317956.0	1.126928	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

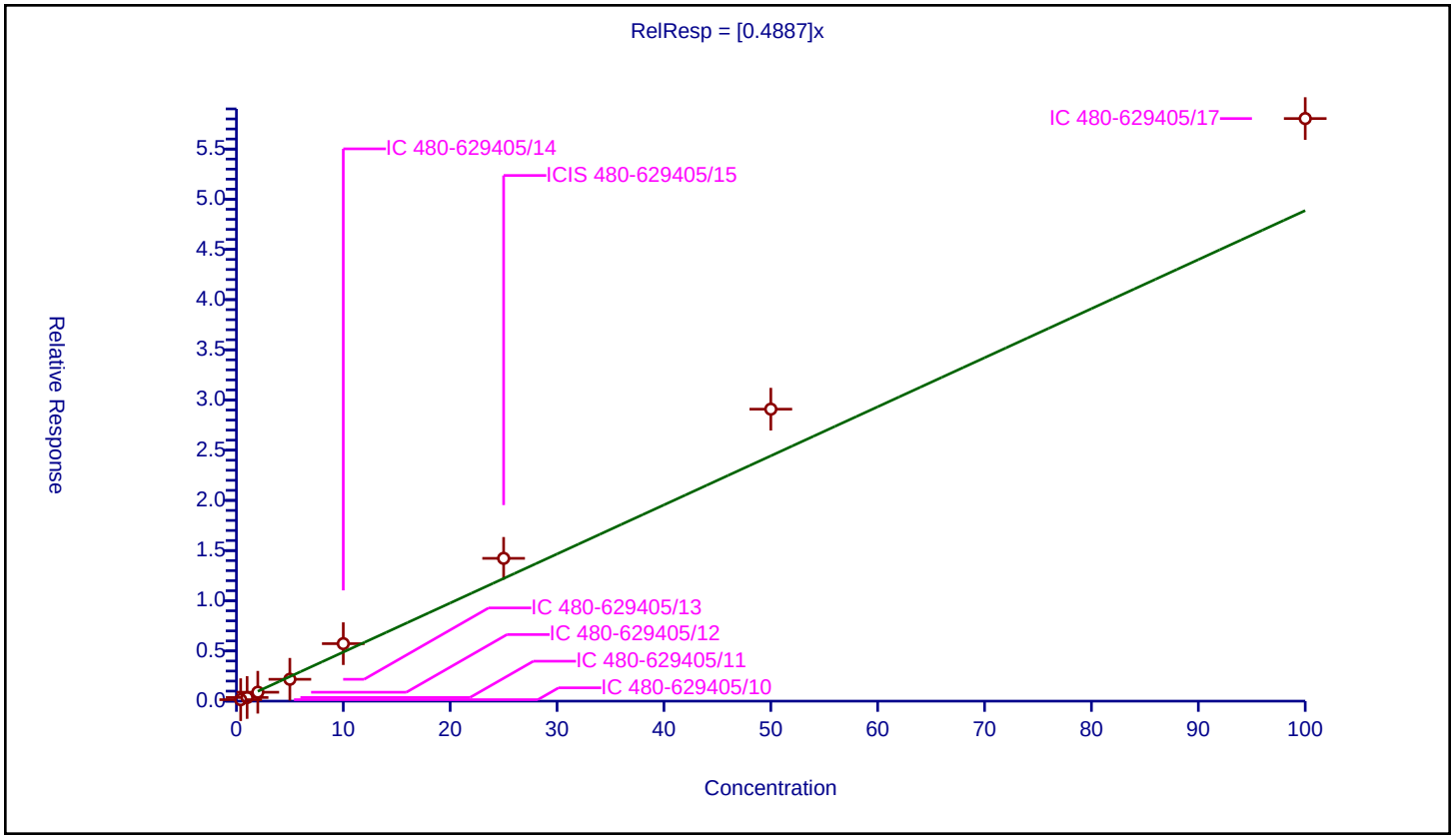
Curve Coefficients

Intercept:	0
Slope:	0.4887

Error Coefficients

Standard Error:	318000
Relative Standard Error:	20.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.958

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.146267	25.0	343378.0	0.365668	Y
2	IC 480-629405/11	1.0	0.360838	25.0	331035.0	0.360838	Y
3	IC 480-629405/12	2.0	0.887846	25.0	353327.0	0.443923	Y
4	IC 480-629405/13	5.0	2.177546	25.0	360555.0	0.435509	Y
5	IC 480-629405/14	10.0	5.727597	25.0	312199.0	0.57276	Y
6	ICIS 480-629405/15	25.0	14.225511	25.0	320818.0	0.56902	Y
7	IC 480-629405/16	50.0	29.087722	25.0	301372.0	0.581754	Y
8	IC 480-629405/17	100.0	58.036096	25.0	317956.0	0.580361	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

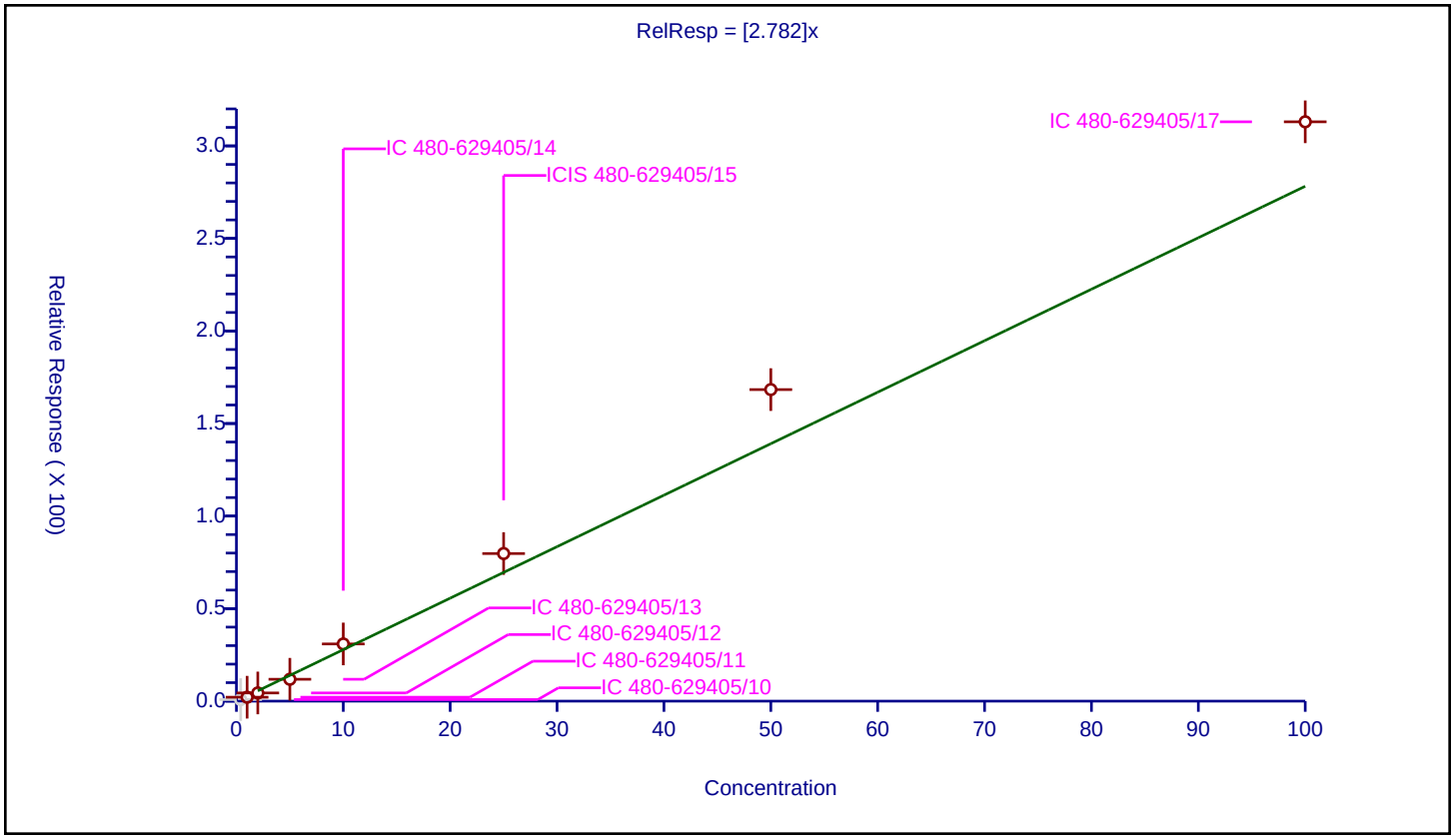
Curve Coefficients

Intercept:	0
Slope:	2.782

Error Coefficients

Standard Error:	1880000
Relative Standard Error:	18.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.961

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.857146	25.0	343378.0	2.142864	N
2	IC 480-629405/11	1.0	2.117148	25.0	331035.0	2.117148	Y
3	IC 480-629405/12	2.0	4.431447	25.0	353327.0	2.215724	Y
4	IC 480-629405/13	5.0	11.819556	25.0	360555.0	2.363911	Y
5	IC 480-629405/14	10.0	30.899122	25.0	312199.0	3.089912	Y
6	ICIS 480-629405/15	25.0	79.750824	25.0	320818.0	3.190033	Y
7	IC 480-629405/16	50.0	168.330419	25.0	301372.0	3.366608	Y
8	IC 480-629405/17	100.0	313.022163	25.0	317956.0	3.130222	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

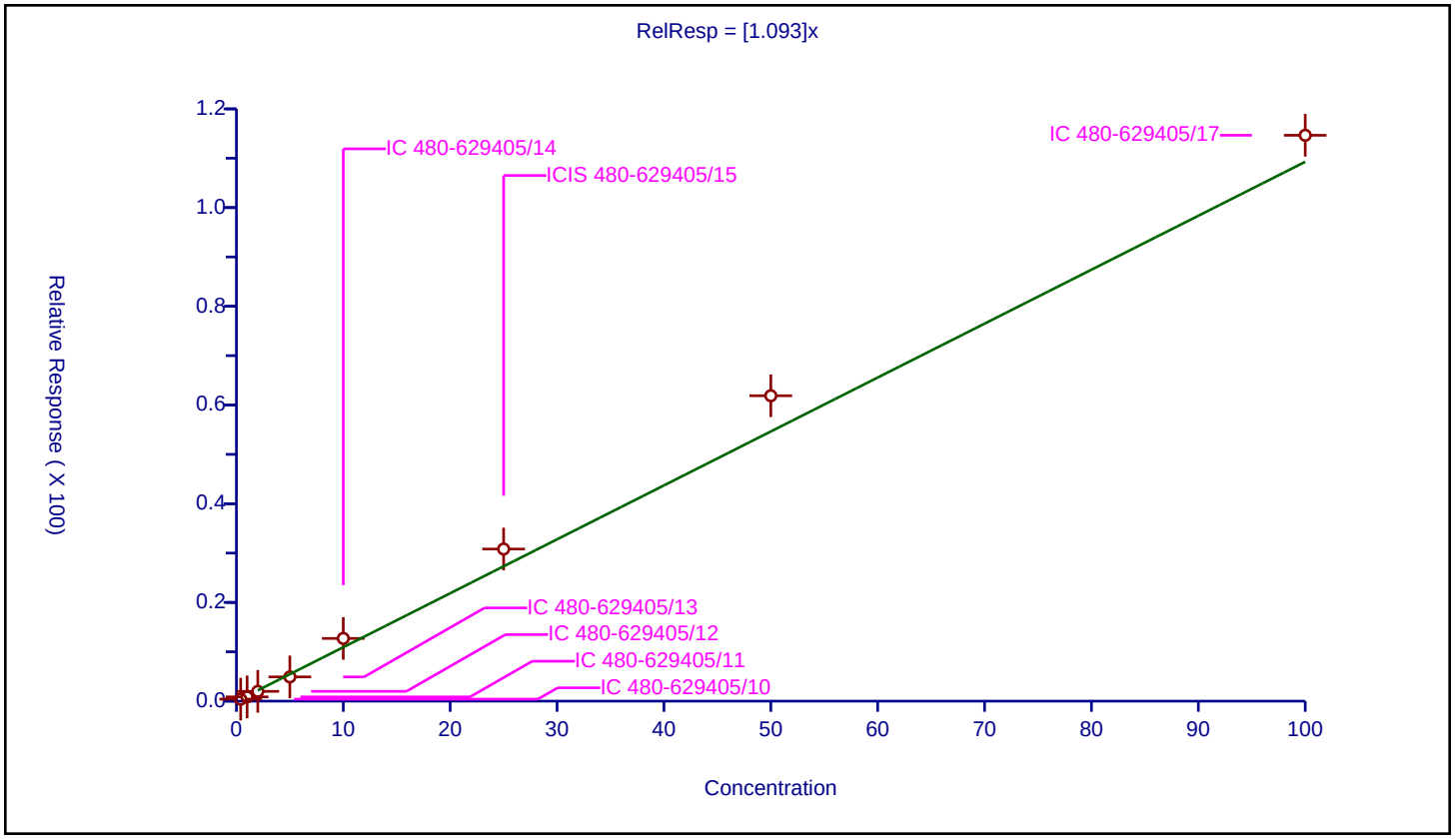
Curve Coefficients

Intercept:	0
Slope:	1.093

Error Coefficients

Standard Error:	640000
Relative Standard Error:	13.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-629405/10	0.4	0.40684	25.0	343378.0	1.017101	Y
2	IC 480-629405/11	1.0	0.861918	25.0	331035.0	0.861918	Y
3	IC 480-629405/12	2.0	1.985837	25.0	353327.0	0.992919	Y
4	IC 480-629405/13	5.0	4.911387	25.0	360555.0	0.982277	Y
5	IC 480-629405/14	10.0	12.705998	25.0	312199.0	1.2706	Y
6	ICIS 480-629405/15	25.0	30.821213	25.0	320818.0	1.232849	Y
7	IC 480-629405/16	50.0	61.878509	25.0	301372.0	1.23757	Y
8	IC 480-629405/17	100.0	114.650298	25.0	317956.0	1.146503	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: ICV 480-628923/30 Calibration Date: 06/07/2022 01:57

Instrument ID: HP5973N Calib Start Date: 06/06/2022 17:50

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 06/06/2022 20:33

Lab File ID: N5177.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.346	1.424	0.1000	26.4	25.0	5.8	50.0
Chloromethane	Ave	2.259	2.172	0.1000	24.0	25.0	-3.9	30.0
Vinyl chloride	Ave	1.370	1.553	0.1000	28.3	25.0	13.3	30.0
Butadiene	Ave	1.837	1.880		25.6	25.0	2.4	30.0
Bromomethane	Ave	0.8768	0.8579	0.1000	24.5	25.0	-2.2	50.0
Chloroethane	Ave	0.9761	0.9762	0.1000	25.0	25.0	0.0	50.0
Trichlorofluoromethane	Ave	1.938	2.041	0.1000	26.3	25.0	5.3	30.0
Dichlorofluoromethane	Ave	2.212	2.160		24.4	25.0	-2.3	30.0
Ethyl ether	Ave	1.579	1.556		24.6	25.0	-1.4	30.0
Acrolein	Ave	0.3291	0.2862		109	125	-13.0	50.0
1,1-Dichloroethene	Ave	1.061	1.104	0.1000	26.0	25.0	4.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.127	1.211	0.1000	26.9	25.0	7.4	30.0
Acetone	Ave	0.8452	0.7003	0.1000	104	125	-17.1	50.0
Iodomethane	Ave	1.860	1.962		26.4	25.0	5.5	30.0
Carbon disulfide	Ave	3.555	3.744	0.1000	26.3	25.0	5.3	30.0
Allyl chloride	Ave	2.782	2.757		24.8	25.0	-0.9	30.0
Methyl acetate	Ave	1.951	1.824	0.1000	46.7	50.0	-6.5	50.0
Methylene Chloride	Lin1		1.371	0.1000	27.1	25.0	8.6	30.0
2-Methyl-2-propanol	Ave	0.2419	0.1761		182	250	-27.2	50.0
Methyl tert-butyl ether	Ave	4.511	4.553	0.1000	25.2	25.0	0.9	30.0
trans-1,2-Dichloroethene	Ave	1.247	1.315	0.1000	26.4	25.0	5.5	30.0
Acrylonitrile	Ave	0.9659	0.9250		239	250	-4.2	30.0
Hexane	Ave	2.556	2.727		26.7	25.0	6.7	30.0
1,1-Dichloroethane	Ave	2.958	2.951	0.2000	24.9	25.0	-0.2	30.0
Vinyl acetate	Ave	5.078	5.010		49.3	50.0	-1.3	30.0
2,2-Dichloropropane	Ave	1.756	1.606		22.9	25.0	-8.5	30.0
cis-1,2-Dichloroethene	Ave	1.423	1.429	0.1000	25.1	25.0	0.4	30.0
2-Butanone (MEK)	Ave	1.262	1.179	0.1000	117	125	-6.6	30.0
Chlorobromomethane	Ave	0.7461	0.7539		25.3	25.0	1.0	30.0
Tetrahydrofuran	Ave	0.7904	0.7620		48.2	50.0	-3.6	30.0
Chloroform	Ave	2.590	2.638	0.2000	25.5	25.0	1.9	30.0
1,1,1-Trichloroethane	Ave	2.162	2.273	0.1000	26.3	25.0	5.1	30.0
Cyclohexane	Ave	3.064	3.348	0.1000	27.3	25.0	9.3	30.0
Carbon tetrachloride	Ave	1.946	2.101	0.1000	27.0	25.0	7.9	30.0
1,1-Dichloropropene	Ave	1.919	2.003		26.1	25.0	4.4	30.0
Benzene	Ave	5.585	5.717	0.5000	25.6	25.0	2.4	30.0
Isobutyl alcohol	Ave	0.1085	0.0861		496	625	-20.6	50.0
1,2-Dichloroethane	Ave	2.861	2.778	0.1000	24.3	25.0	-2.9	30.0
n-Heptane	Ave	2.984	3.085		25.8	25.0	3.4	30.0
Trichloroethene	Ave	1.422	1.457	0.2000	25.6	25.0	2.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: ICV 480-628923/30 Calibration Date: 06/07/2022 01:57

Instrument ID: HP5973N Calib Start Date: 06/06/2022 17:50

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 06/06/2022 20:33

Lab File ID: N5177.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.257	2.454	0.1000	27.2	25.0	8.7	30.0
1,2-Dichloropropane	Ave	1.590	1.639	0.1000	25.8	25.0	3.1	30.0
Dibromomethane	Ave	0.9239	0.9199	0.1000	24.9	25.0	-0.4	30.0
1,4-Dioxane	Ave	0.0030	0.0022		365	500	-27.0	50.0
Bromodichloromethane	Ave	1.908	1.977	0.2000	25.9	25.0	3.6	30.0
2-Chloroethyl vinyl ether	Ave	1.124	1.171		26.0	25.0	4.2	30.0
cis-1,3-Dichloropropene	Ave	2.253	2.380	0.2000	26.4	25.0	5.7	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2577	0.2515	0.1000	122	125	-2.4	30.0
Toluene	Ave	1.008	1.014	0.4000	25.1	25.0	0.6	30.0
trans-1,3-Dichloropropene	Ave	0.6281	0.6231	0.1000	24.8	25.0	-0.8	30.0
Ethyl methacrylate	Ave	0.5338	0.5371		25.2	25.0	0.6	30.0
1,1,2-Trichloroethane	Ave	0.3104	0.3054	0.1000	24.6	25.0	-1.6	30.0
Tetrachloroethene	Ave	0.4186	0.4262	0.2000	25.5	25.0	1.8	30.0
1,3-Dichloropropane	Ave	0.6408	0.6496		25.3	25.0	1.4	30.0
2-Hexanone	Ave	0.5188	0.4818	0.1000	116	125	-7.1	30.0
Dibromochloromethane	Ave	0.3826	0.3942	0.1000	25.8	25.0	3.0	30.0
1,2-Dibromoethane	Ave	0.3869	0.3878		25.1	25.0	0.2	30.0
Chlorobenzene	Ave	1.091	1.133	0.5000	26.0	25.0	3.8	30.0
Ethylbenzene	Ave	1.872	1.916	0.1000	25.6	25.0	2.3	30.0
1,1,1,2-Tetrachloroethane	Ave	0.4150	0.4245		25.6	25.0	2.3	30.0
m,p-Xylene	Ave	0.7358	0.7443	0.1000	25.3	25.0	1.2	30.0
o-Xylene	Ave	0.7147	0.7353	0.3000	25.7	25.0	2.9	30.0
Styrene	Ave	1.177	1.258	0.3000	26.7	25.0	6.9	30.0
Bromoform	Ave	0.2423	0.2556	0.1000	26.4	25.0	5.5	50.0
Isopropylbenzene	Ave	3.741	3.780	0.1000	25.3	25.0	1.1	30.0
Bromobenzene	Ave	0.9024	0.8450		23.4	25.0	-6.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.9815	0.9412	0.3000	24.0	25.0	-4.1	30.0
N-Propylbenzene	Ave	4.220	4.268		25.3	25.0	1.1	30.0
1,2,3-Trichloropropane	Ave	0.3215	0.2925		22.7	25.0	-9.0	30.0
trans-1,4-Dichloro-2-butene	Ave	0.4391	0.4237		24.1	25.0	-3.5	50.0
2-Chlorotoluene	Ave	0.8203	0.8123		24.8	25.0	-1.0	30.0
1,3,5-Trimethylbenzene	Ave	3.069	3.202		26.1	25.0	4.3	30.0
4-Chlorotoluene	Ave	2.782	2.689		24.2	25.0	-3.4	30.0
tert-Butylbenzene	Ave	0.6386	0.6230		24.4	25.0	-2.4	30.0
1,2,4-Trimethylbenzene	Ave	3.113	3.195		25.7	25.0	2.6	30.0
sec-Butylbenzene	Ave	3.859	4.053		26.3	25.0	5.0	30.0
1,3-Dichlorobenzene	Ave	1.688	1.643	0.6000	24.3	25.0	-2.7	30.0
4-Isopropyltoluene	Ave	3.277	3.391		25.9	25.0	3.5	30.0
1,4-Dichlorobenzene	Ave	1.730	1.687	0.5000	24.4	25.0	-2.5	30.0
n-Butylbenzene	Ave	2.920	2.986		25.6	25.0	2.3	30.0
1,2-Dichlorobenzene	Ave	1.662	1.634	0.4000	24.6	25.0	-1.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: ICV 480-628923/30 Calibration Date: 06/07/2022 01:57

Instrument ID: HP5973N Calib Start Date: 06/06/2022 17:50

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 06/06/2022 20:33

Lab File ID: N5177.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.2046	0.1971	0.0500	24.1	25.0	-3.7	50.0
1,2,4-Trichlorobenzene	Ave	1.094	1.118	0.2000	25.6	25.0	2.2	30.0
Hexachlorobutadiene	Ave	0.5303	0.5708		26.9	25.0	7.6	30.0
Naphthalene	Ave	3.024	3.070		25.4	25.0	1.5	30.0
1,2,3-Trichlorobenzene	Ave	1.045	1.075		25.7	25.0	2.9	30.0
Dibromofluoromethane (Surr)	Ave	1.194	1.234		25.8	25.0	3.4	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.760	1.776		25.2	25.0	0.9	30.0
Toluene-d8 (Surr)	Ave	1.257	1.254		24.9	25.0	-0.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4096	0.4065		24.8	25.0	-0.8	30.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5177.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 07-Jun-2022 01:57:30 ALS Bottle#: 50 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 480-0105916-030
Operator ID: LH Instrument ID: HP5973N
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jun-2022 10:08:51 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1667

First Level Reviewer: HillL Date: 07-Jun-2022 10:05:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.241	5.241	0.000	97	213849	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.222	8.222	0.000	91	754962	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.637	10.637	0.000	95	404062	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.669	4.669	0.000	92	263945	25.0	25.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.973	4.973	0.000	60	379727	25.0	25.2	
$ 6 Toluene-d8 (Surr)	98	6.743	6.743	0.000	95	947016	25.0	24.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.481	9.481	0.000	85	306921	25.0	24.8	
11 Dichlorodifluoromethane	85	1.213	1.207	0.006	98	304549	25.0	26.4	
13 Chloromethane	50	1.371	1.371	0.000	98	464445	25.0	24.0	
14 Vinyl chloride	62	1.463	1.457	0.006	97	332118	25.0	28.3	
144 Butadiene	54	1.481	1.475	0.006	92	402006	25.0	25.6	
15 Bromomethane	94	1.767	1.761	0.006	92	183458	25.0	24.5	
16 Chloroethane	64	1.828	1.828	0.000	96	208757	25.0	25.0	
17 Dichlorofluoromethane	67	2.047	2.047	0.000	94	461941	25.0	24.4	
18 Trichlorofluoromethane	101	2.041	2.047	-0.006	77	436529	25.0	26.3	
19 Ethyl ether	59	2.308	2.308	0.000	97	332839	25.0	24.6	
20 Acrolein	56	2.479	2.479	0.000	100	306030	125.0	108.7	
22 1,1-Dichloroethene	96	2.515	2.509	0.006	89	236195	25.0	26.0	
21 112TCTFE	101	2.521	2.521	0.000	94	259042	25.0	26.9	
23 Acetone	43	2.637	2.631	0.006	97	748783	125.0	103.6	
24 Iodomethane	142	2.667	2.667	0.000	99	419606	25.0	26.4	
25 Carbon disulfide	76	2.704	2.704	0.000	99	800603	25.0	26.3	
27 3-Chloro-1-propene	41	2.880	2.874	0.006	84	589507	25.0	24.8	
28 Methyl acetate	43	2.923	2.923	0.000	100	779972	50.0	46.7	
30 Methylene Chloride	84	3.020	3.020	0.000	91	293257	25.0	27.1	
31 2-Methyl-2-propanol	59	3.197	3.196	0.000	99	376539	250.0	181.9	
32 Methyl tert-butyl ether	73	3.227	3.227	0.000	97	973610	25.0	25.2	
33 trans-1,2-Dichloroethene	96	3.239	3.245	-0.006	89	281309	25.0	26.4	
34 Acrylonitrile	53	3.300	3.300	0.000	97	1978007	250.0	239.4	
35 Hexane	57	3.434	3.434	0.000	94	583243	25.0	26.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.653	3.653	0.000	97	631053	25.0	24.9	
39 Vinyl acetate	43	3.714	3.708	0.006	97	2142833	50.0	49.3	
42 2,2-Dichloropropane	77	4.164	4.164	0.000	88	343366	25.0	22.9	
43 cis-1,2-Dichloroethene	96	4.206	4.200	0.006	87	305612	25.0	25.1	
44 2-Butanone (MEK)	43	4.237	4.237	0.000	97	1260475	125.0	116.8	
47 Chlorobromomethane	128	4.438	4.431	0.007	87	161214	25.0	25.3	
49 Tetrahydrofuran	42	4.456	4.450	0.006	92	325914	50.0	48.2	
50 Chloroform	83	4.517	4.517	0.000	96	564131	25.0	25.5	
51 1,1,1-Trichloroethane	97	4.620	4.620	0.000	94	486086	25.0	26.3	
52 Cyclohexane	56	4.626	4.626	0.000	95	715949	25.0	27.3	
53 Carbon tetrachloride	117	4.754	4.754	0.000	94	449266	25.0	27.0	
54 1,1-Dichloropropene	75	4.772	4.772	0.000	87	428337	25.0	26.1	
55 Benzene	78	4.973	4.973	0.000	93	1222595	25.0	25.6	
56 Isobutyl alcohol	43	5.009	5.009	0.000	91	460484	625.0	496.0	
57 1,2-Dichloroethane	62	5.046	5.040	0.006	96	594072	25.0	24.3	
59 n-Heptane	43	5.155	5.155	0.000	95	659711	25.0	25.8	
60 Trichloroethene	95	5.581	5.581	0.000	94	311602	25.0	25.6	
62 Methylcyclohexane	83	5.697	5.697	0.000	95	524853	25.0	27.2	
63 1,2-Dichloropropane	63	5.819	5.819	0.001	85	350485	25.0	25.8	
64 Dibromomethane	93	5.952	5.958	-0.006	95	196711	25.0	24.9	
66 1,4-Dioxane	88	5.958	5.965	-0.006	31	33499	500.0	364.8	M
67 Dichlorobromomethane	83	6.111	6.111	0.000	95	422852	25.0	25.9	
69 2-Chloroethyl vinyl ether	63	6.390	6.396	-0.006	93	250359	25.0	26.0	
71 cis-1,3-Dichloropropene	75	6.524	6.524	0.000	86	509051	25.0	26.4	
72 4-Methyl-2-pentanone (MIBK)	58	6.676	6.676	0.000	99	949241	125.0	122.0	
73 Toluene	92	6.810	6.810	0.000	97	765376	25.0	25.1	
75 trans-1,3-Dichloropropene	75	7.096	7.096	0.000	94	470451	25.0	24.8	
77 Ethyl methacrylate	69	7.145	7.145	0.000	90	405472	25.0	25.2	
78 1,1,2-Trichloroethane	83	7.285	7.285	0.000	94	230547	25.0	24.6	
79 Tetrachloroethene	166	7.339	7.339	0.000	94	321746	25.0	25.5	
80 1,3-Dichloropropane	76	7.443	7.443	0.000	95	490453	25.0	25.3	
82 2-Hexanone	43	7.510	7.516	-0.006	98	1818710	125.0	116.1	
83 Chlorodibromomethane	129	7.674	7.674	0.000	89	297608	25.0	25.8	
84 Ethylene Dibromide	107	7.777	7.777	0.000	99	292792	25.0	25.1	
85 Chlorobenzene	112	8.252	8.252	0.000	91	855535	25.0	26.0	
88 Ethylbenzene	91	8.349	8.349	0.000	99	1446357	25.0	25.6	
89 1,1,1,2-Tetrachloroethane	131	8.355	8.349	0.006	92	320448	25.0	25.6	
90 m-Xylene & p-Xylene	106	8.471	8.471	0.000	98	561954	25.0	25.3	
91 o-Xylene	106	8.897	8.897	0.000	98	555142	25.0	25.7	
92 Styrene	104	8.927	8.927	0.000	93	949797	25.0	26.7	
93 Bromoform	173	9.171	9.171	0.000	95	192986	25.0	26.4	
95 Isopropylbenzene	105	9.280	9.280	0.000	97	1527512	25.0	25.3	
97 Bromobenzene	156	9.627	9.627	0.000	94	341427	25.0	23.4	
98 1,1,2,2-Tetrachloroethane	83	9.694	9.700	-0.006	95	380317	25.0	24.0	
100 N-Propylbenzene	91	9.718	9.718	0.000	99	1724702	25.0	25.3	
99 1,2,3-Trichloropropane	110	9.724	9.724	0.000	89	118190	25.0	22.7	
101 trans-1,4-Dichloro-2-butene	53	9.742	9.742	0.000	81	171205	25.0	24.1	
102 2-Chlorotoluene	126	9.822	9.822	0.000	94	328203	25.0	24.8	
104 1,3,5-Trimethylbenzene	105	9.901	9.901	0.000	93	1293844	25.0	26.1	
105 4-Chlorotoluene	91	9.931	9.937	-0.006	99	1086461	25.0	24.2	
106 tert-Butylbenzene	134	10.223	10.223	0.000	95	251724	25.0	24.4	
108 1,2,4-Trimethylbenzene	105	10.278	10.278	0.000	98	1291136	25.0	25.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.436	10.436	0.000	95	1637749	25.0	26.3	
110 1,3-Dichlorobenzene	146	10.570	10.570	0.000	95	663896	25.0	24.3	
111 4-Isopropyltoluene	119	10.576	10.576	0.000	98	1370290	25.0	25.9	
113 1,4-Dichlorobenzene	146	10.655	10.661	-0.006	92	681581	25.0	24.4	
115 n-Butylbenzene	91	10.965	10.965	0.000	98	1206652	25.0	25.6	
116 1,2-Dichlorobenzene	146	11.014	11.014	0.000	95	660210	25.0	24.6	
117 1,2-Dibromo-3-Chloropropane	75	11.750	11.750	0.000	75	79659	25.0	24.1	
119 1,2,4-Trichlorobenzene	180	12.425	12.425	0.000	94	451787	25.0	25.6	
120 Hexachlorobutadiene	225	12.541	12.541	0.000	96	230631	25.0	26.9	
121 Naphthalene	128	12.638	12.638	0.000	98	1240348	25.0	25.4	
122 1,2,3-Trichlorobenzene	180	12.845	12.845	0.000	95	434274	25.0	25.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SS GAS CORP_00455	Amount Added:	12.50	Units: uL	
SS 8260 CORP_00101	Amount Added:	12.50	Units: uL	
N_8260_Surr_00440	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00232	Amount Added:	1.00	Units: uL	Run Reagent

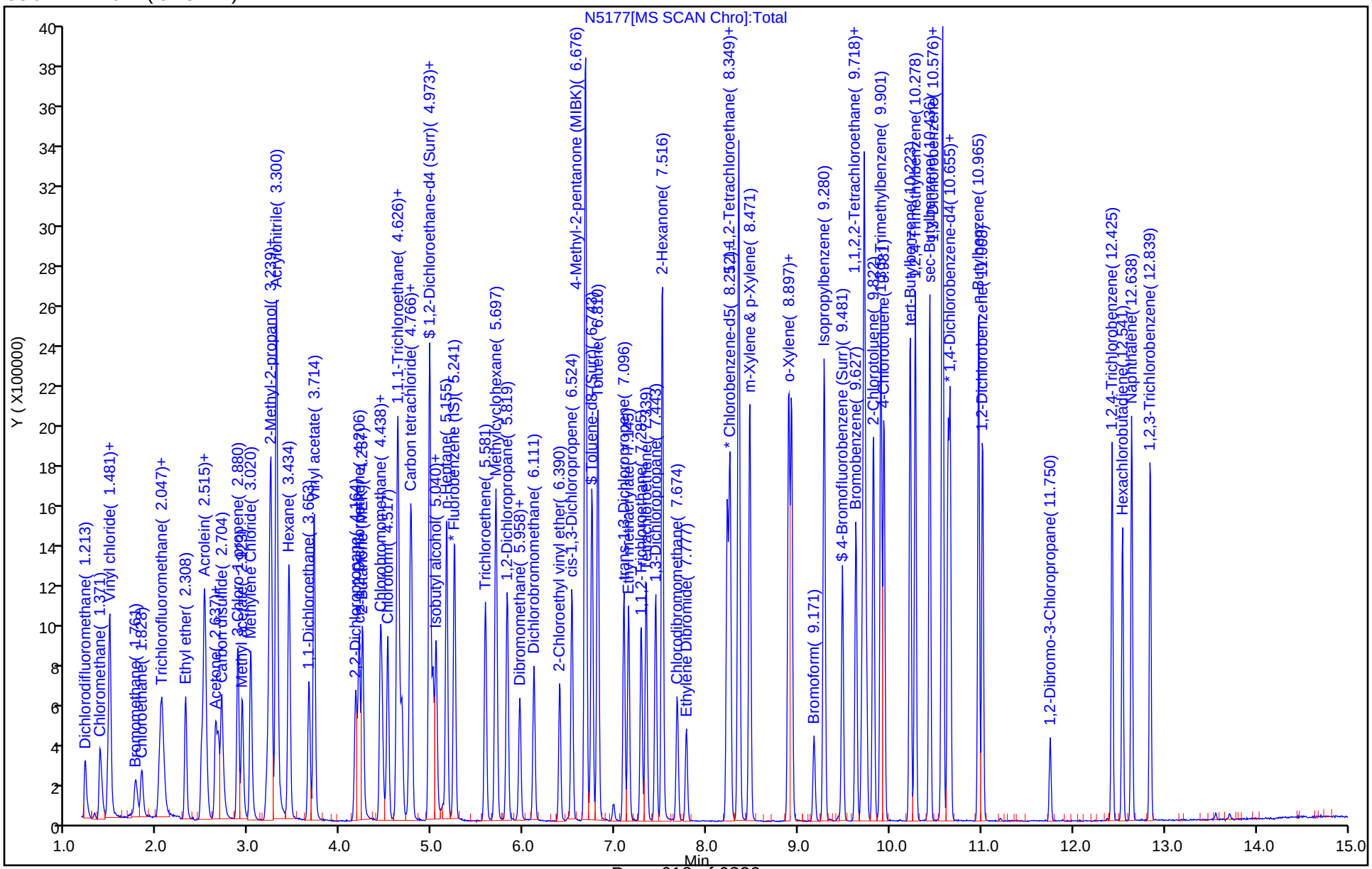
Report Date: 07-Jun-2022 10:13:05 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5177.D

Injection Date:	07-Jun-2022 01:57:30	Instrument ID:	HP5973N	Operator ID:	LH
Lims ID:	ICV			Worklist Smp#:	30
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	50
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

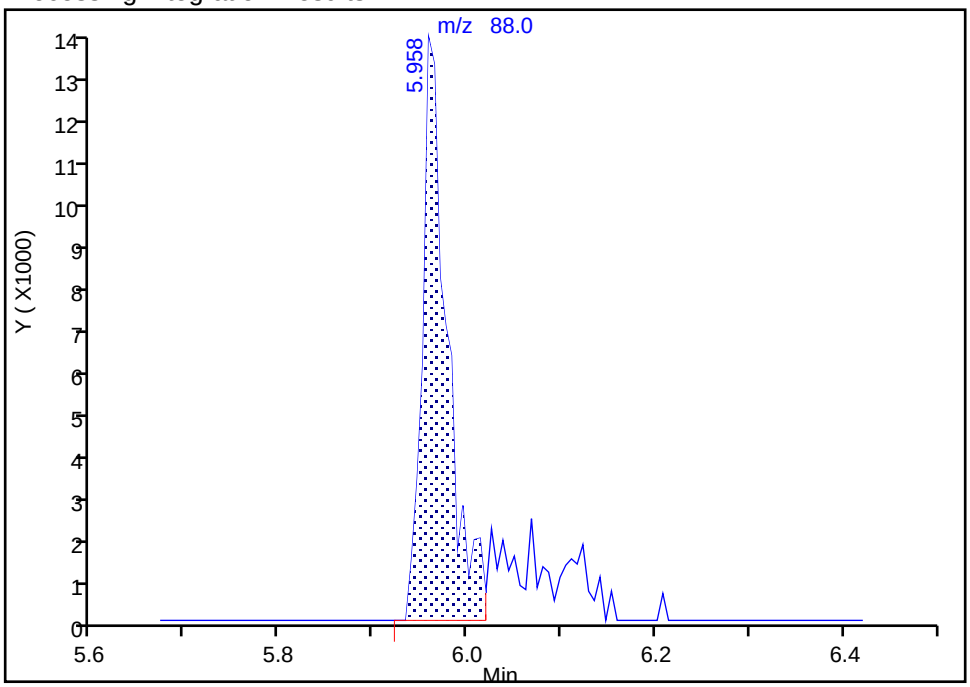
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5177.D
Injection Date: 07-Jun-2022 01:57:30 Instrument ID: HP5973N
Lims ID: ICV
Client ID:
Operator ID: LH ALS Bottle#: 50 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

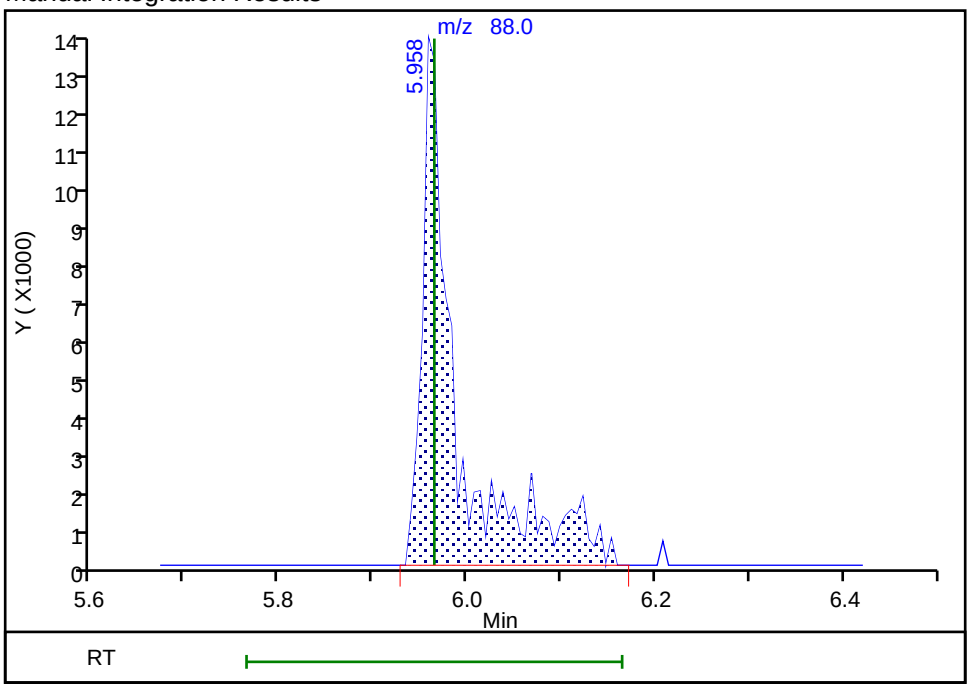
Processing Integration Results

RT: 5.96
Area: 24492
Amount: 266.6961
Amount Units: ug/L



Manual Integration Results

RT: 5.96
Area: 33499
Amount: 364.7743
Amount Units: ug/L



Reviewer: HillL, 07-Jun-2022 10:05:19
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: CCVIS 480-630178/4 Calibration Date: 06/15/2022 19:26

Instrument ID: HP5973N Calib Start Date: 06/06/2022 17:50

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 06/06/2022 20:33

Lab File ID: N5620.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.346	1.291	0.1000	24.0	25.0	-4.1	50.0
Chloromethane	Ave	2.259	1.990	0.1000	22.0	25.0	-11.9	20.0
Vinyl chloride	Ave	1.370	1.376	0.1000	25.1	25.0	0.4	20.0
Butadiene	Ave	1.837	1.767		24.1	25.0	-3.8	20.0
Bromomethane	Ave	0.8768	0.7855	0.1000	22.4	25.0	-10.4	50.0
Chloroethane	Ave	0.9761	0.8527	0.1000	21.8	25.0	-12.6	50.0
Dichlorofluoromethane	Ave	2.212	1.917		21.7	25.0	-13.3	20.0
Trichlorofluoromethane	Ave	1.938	1.766	0.1000	22.8	25.0	-8.9	20.0
Ethyl ether	Ave	1.579	1.392		22.0	25.0	-11.9	20.0
Acrolein	Ave	0.3291	0.2767		105	125	-15.9	50.0
1,1-Dichloroethene	Ave	1.061	0.8620	0.1000	20.3	25.0	-18.7	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.127	0.9282	0.1000	20.6	25.0	-17.7	20.0
Acetone	Ave	0.8452	0.7596	0.1000	112	125	-10.1	50.0
Iodomethane	Ave	1.860	1.628		21.9	25.0	-12.5	20.0
Carbon disulfide	Ave	3.555	2.786	0.1000	19.6	25.0	-21.6*	20.0
Allyl chloride	Ave	2.782	2.418		21.7	25.0	-13.1	20.0
Methyl acetate	Ave	1.951	1.521	0.1000	39.0	50.0	-22.1	50.0
Methylene Chloride	Lin1		1.177	0.1000	23.3	25.0	-6.8	20.0
2-Methyl-2-propanol	Ave	0.2419	0.1781		184	250	-26.4	50.0
Methyl tert-butyl ether	Ave	4.511	4.053	0.1000	22.5	25.0	-10.1	20.0
trans-1,2-Dichloroethene	Ave	1.247	1.081	0.1000	21.7	25.0	-13.3	20.0
Acrylonitrile	Ave	0.9659	0.8125		210	250	-15.9	20.0
Hexane	Ave	2.556	2.115		20.7	25.0	-17.2	20.0
1,1-Dichloroethane	Ave	2.958	2.445	0.2000	20.7	25.0	-17.4	20.0
Vinyl acetate	Ave	5.078	4.435		43.7	50.0	-12.7	20.0
2,2-Dichloropropane	Ave	1.756	1.563		22.3	25.0	-11.0	20.0
cis-1,2-Dichloroethene	Ave	1.423	1.258	0.1000	22.1	25.0	-11.6	20.0
2-Butanone (MEK)	Ave	1.262	1.080	0.1000	107	125	-14.4	20.0
Chlorobromomethane	Ave	0.7461	0.6483		21.7	25.0	-13.1	20.0
Tetrahydrofuran	Ave	0.7904	0.6621		41.9	50.0	-16.2	20.0
Chloroform	Ave	2.590	2.242	0.2000	21.6	25.0	-13.4	20.0
1,1,1-Trichloroethane	Ave	2.162	1.886	0.1000	21.8	25.0	-12.8	20.0
Cyclohexane	Ave	3.064	2.597	0.1000	21.2	25.0	-15.2	20.0
Carbon tetrachloride	Ave	1.946	1.631	0.1000	20.9	25.0	-16.2	20.0
1,1-Dichloropropene	Ave	1.919	1.585		20.7	25.0	-17.4	20.0
Benzene	Ave	5.585	4.816	0.5000	21.6	25.0	-13.8	20.0
Isobutyl alcohol	Ave	0.1085	0.0848		488	625	-21.9	50.0
1,2-Dichloroethane	Ave	2.861	2.445	0.1000	21.4	25.0	-14.5	20.0
n-Heptane	Ave	2.984	2.409		20.2	25.0	-19.3	20.0
Trichloroethene	Ave	1.422	1.238	0.2000	21.8	25.0	-12.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: CCVIS 480-630178/4 Calibration Date: 06/15/2022 19:26

Instrument ID: HP5973N Calib Start Date: 06/06/2022 17:50

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 06/06/2022 20:33

Lab File ID: N5620.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.257	1.884	0.1000	20.9	25.0	-16.5	20.0
1,2-Dichloropropane	Ave	1.590	1.444	0.1000	22.7	25.0	-9.2	20.0
Dibromomethane	Ave	0.9239	0.8331	0.1000	22.5	25.0	-9.8	20.0
1,4-Dioxane	Ave	0.0030	0.0025		414	500	-17.3	50.0
Bromodichloromethane	Ave	1.908	1.744	0.2000	22.9	25.0	-8.6	20.0
2-Chloroethyl vinyl ether	Ave	1.124	1.059		23.6	25.0	-5.8	20.0
cis-1,3-Dichloropropene	Ave	2.253	2.197	0.2000	24.4	25.0	-2.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2577	0.2355	0.1000	114	125	-8.6	20.0
Toluene	Ave	1.008	0.8702	0.4000	21.6	25.0	-13.7	20.0
trans-1,3-Dichloropropene	Ave	0.6281	0.5566	0.1000	22.2	25.0	-11.4	20.0
Ethyl methacrylate	Ave	0.5338	0.5169		24.2	25.0	-3.2	20.0
1,1,2-Trichloroethane	Ave	0.3104	0.2716	0.1000	21.9	25.0	-12.5	20.0
Tetrachloroethene	Ave	0.4186	0.3728	0.2000	22.3	25.0	-11.0	20.0
1,3-Dichloropropane	Ave	0.6408	0.5752		22.4	25.0	-10.2	20.0
2-Hexanone	Ave	0.5188	0.4614	0.1000	111	125	-11.1	20.0
Dibromochloromethane	Ave	0.3826	0.3351	0.1000	21.9	25.0	-12.4	20.0
1,2-Dibromoethane	Ave	0.3869	0.3474		22.4	25.0	-10.2	20.0
Chlorobenzene	Ave	1.091	0.9710	0.5000	22.2	25.0	-11.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4150	0.3453		20.8	25.0	-16.8	20.0
Ethylbenzene	Ave	1.872	1.531	0.1000	20.4	25.0	-18.2	20.0
m,p-Xylene	Ave	0.7358	0.6108	0.1000	20.8	25.0	-17.0	20.0
o-Xylene	Ave	0.7147	0.6077	0.3000	21.3	25.0	-15.0	20.0
Styrene	Ave	1.177	1.029	0.3000	21.9	25.0	-12.6	20.0
Bromoform	Ave	0.2423	0.1989	0.1000	20.5	25.0	-17.9	50.0
Isopropylbenzene	Ave	3.741	3.296	0.1000	22.0	25.0	-11.9	20.0
Bromobenzene	Ave	0.9024	0.8205		22.7	25.0	-9.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.9815	0.8971	0.3000	22.8	25.0	-8.6	20.0
N-Propylbenzene	Ave	4.220	3.768		22.3	25.0	-10.7	20.0
1,2,3-Trichloropropane	Ave	0.3215	0.2816		21.9	25.0	-12.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.4391	0.3081		17.5	25.0	-29.8	50.0
2-Chlorotoluene	Ave	0.8203	0.7526		22.9	25.0	-8.2	20.0
1,3,5-Trimethylbenzene	Ave	3.069	2.776		22.6	25.0	-9.6	20.0
4-Chlorotoluene	Ave	2.782	2.451		22.0	25.0	-11.9	20.0
tert-Butylbenzene	Ave	0.6386	0.5816		22.8	25.0	-8.9	20.0
1,2,4-Trimethylbenzene	Ave	3.113	2.875		23.1	25.0	-7.7	20.0
sec-Butylbenzene	Ave	3.859	3.473		22.5	25.0	-10.0	20.0
1,3-Dichlorobenzene	Ave	1.688	1.531	0.6000	22.7	25.0	-9.3	20.0
4-Isopropyltoluene	Ave	3.277	2.958		22.6	25.0	-9.8	20.0
1,4-Dichlorobenzene	Ave	1.730	1.579	0.5000	22.8	25.0	-8.7	20.0
n-Butylbenzene	Ave	2.920	2.603		22.3	25.0	-10.9	20.0
1,2-Dichlorobenzene	Ave	1.662	1.519	0.4000	22.8	25.0	-8.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: CCVIS 480-630178/4 Calibration Date: 06/15/2022 19:26

Instrument ID: HP5973N Calib Start Date: 06/06/2022 17:50

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 06/06/2022 20:33

Lab File ID: N5620.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.2046	0.1765	0.0500	21.6	25.0	-13.7	50.0
1,2,4-Trichlorobenzene	Ave	1.094	1.060	0.2000	24.2	25.0	-3.1	20.0
Hexachlorobutadiene	Ave	0.5303	0.4724		22.3	25.0	-10.9	20.0
Naphthalene	Ave	3.024	2.845		23.5	25.0	-5.9	20.0
1,2,3-Trichlorobenzene	Ave	1.045	1.002		24.0	25.0	-4.1	20.0
Dibromofluoromethane (Surr)	Ave	1.194	1.067		22.3	25.0	-10.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.760	1.542		21.9	25.0	-12.4	20.0
Toluene-d8 (Surr)	Ave	1.257	1.175		23.4	25.0	-6.5	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4096	0.3813		23.3	25.0	-6.9	20.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5620.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 15-Jun-2022 19:26:30 ALS Bottle#: 24 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0106089-004
Operator ID: CR/AK Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 15-Jun-2022 23:43:41 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: lapointec Date: 15-Jun-2022 23:43:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.241	5.241	0.000	97	210086	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.222	8.222	0.000	89	779295	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.637	10.637	0.000	96	369656	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.669	4.669	0.000	92	224113	25.0	22.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.973	4.973	0.000	60	324056	25.0	21.9	
$ 6 Toluene-d8 (Surr)	98	6.743	6.743	0.000	94	915742	25.0	23.4	
$ 7 4-Bromofluorobenzene (Surr)	174	9.481	9.481	0.000	85	297122	25.0	23.3	
11 Dichlorodifluoromethane	85	1.207	1.207	0.000	98	271191	25.0	24.0	
13 Chloromethane	50	1.372	1.372	0.000	99	418028	25.0	22.0	
14 Vinyl chloride	62	1.463	1.463	0.000	98	289091	25.0	25.1	
144 Butadiene	54	1.475	1.475	0.000	93	371255	25.0	24.1	
15 Bromomethane	94	1.761	1.761	0.000	92	165030	25.0	22.4	
16 Chloroethane	64	1.822	1.822	0.000	96	179148	25.0	21.8	
17 Dichlorofluoromethane	67	2.041	2.041	0.000	94	402693	25.0	21.7	
18 Trichlorofluoromethane	101	2.047	2.047	0.000	80	371086	25.0	22.8	
19 Ethyl ether	59	2.302	2.302	0.000	98	292369	25.0	22.0	
20 Acrolein	56	2.479	2.479	0.000	98	290609	125.0	105.1	
22 1,1-Dichloroethene	96	2.509	2.509	0.000	89	181092	25.0	20.3	
21 112TCTFE	101	2.515	2.515	0.000	61	195006	25.0	20.6	
23 Acetone	43	2.631	2.631	0.000	97	797889	125.0	112.3	
24 Iodomethane	142	2.667	2.667	0.000	99	341947	25.0	21.9	
25 Carbon disulfide	76	2.698	2.698	0.000	98	585203	25.0	19.6	
27 3-Chloro-1-propene	41	2.874	2.874	0.000	84	507990	25.0	21.7	
28 Methyl acetate	43	2.923	2.923	0.000	100	638934	50.0	39.0	
30 Methylene Chloride	84	3.014	3.014	0.000	91	247367	25.0	23.3	
31 2-Methyl-2-propanol	59	3.191	3.191	0.000	93	374109	250.0	184.0	
32 Methyl tert-butyl ether	73	3.227	3.227	0.000	98	851581	25.0	22.5	
33 trans-1,2-Dichloroethene	96	3.239	3.239	0.000	89	227175	25.0	21.7	
34 Acrylonitrile	53	3.300	3.300	0.000	98	1707020	250.0	210.3	
35 Hexane	57	3.434	3.434	0.000	95	444379	25.0	20.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.653	3.653	0.000	97	513656	25.0	20.7	
39 Vinyl acetate	43	3.708	3.708	0.000	97	1863354	50.0	43.7	
42 2,2-Dichloropropane	77	4.164	4.164	0.000	87	328407	25.0	22.3	
43 cis-1,2-Dichloroethene	96	4.200	4.200	0.000	88	264289	25.0	22.1	
44 2-Butanone (MEK)	43	4.237	4.237	0.000	97	1134818	125.0	107.0	
47 Chlorobromomethane	128	4.432	4.432	0.000	87	136194	25.0	21.7	
49 Tetrahydrofuran	42	4.450	4.450	0.000	93	278182	50.0	41.9	
50 Chloroform	83	4.511	4.511	0.000	96	470968	25.0	21.6	
51 1,1,1-Trichloroethane	97	4.620	4.620	0.000	95	396202	25.0	21.8	
52 Cyclohexane	56	4.626	4.626	0.000	95	545540	25.0	21.2	
53 Carbon tetrachloride	117	4.760	4.760	0.000	94	342612	25.0	20.9	
54 1,1-Dichloropropene	75	4.772	4.772	0.000	86	333060	25.0	20.7	
55 Benzene	78	4.973	4.973	0.000	93	1011707	25.0	21.6	
56 Isobutyl alcohol	43	5.010	5.010	0.000	93	445467	625.0	488.4	
57 1,2-Dichloroethane	62	5.040	5.040	0.000	95	513620	25.0	21.4	
59 n-Heptane	43	5.156	5.156	0.000	96	506113	25.0	20.2	
60 Trichloroethene	95	5.581	5.581	0.000	94	260141	25.0	21.8	
62 Methylcyclohexane	83	5.697	5.697	0.000	96	395868	25.0	20.9	
63 1,2-Dichloropropane	63	5.819	5.819	0.000	87	303264	25.0	22.7	
64 Dibromomethane	93	5.953	5.953	0.000	94	175014	25.0	22.5	
66 1,4-Dioxane	88	5.965	5.965	0.000	33	39218	500.0	413.7	M
67 Dichlorobromomethane	83	6.111	6.111	0.000	95	366472	25.0	22.9	
69 2-Chloroethyl vinyl ether	63	6.391	6.391	0.000	91	222462	25.0	23.6	
71 cis-1,3-Dichloropropene	75	6.524	6.524	0.000	89	461609	25.0	24.4	
72 4-Methyl-2-pentanone (MIBK)	58	6.676	6.676	0.000	99	917577	125.0	114.2	
73 Toluene	92	6.810	6.810	0.000	96	678107	25.0	21.6	
75 trans-1,3-Dichloropropene	75	7.096	7.096	0.000	97	433771	25.0	22.2	
77 Ethyl methacrylate	69	7.145	7.145	0.000	93	402827	25.0	24.2	
78 1,1,2-Trichloroethane	83	7.285	7.285	0.000	95	211629	25.0	21.9	
79 Tetrachloroethene	166	7.340	7.340	0.000	96	290496	25.0	22.3	
80 1,3-Dichloropropane	76	7.443	7.443	0.000	93	448274	25.0	22.4	
82 2-Hexanone	43	7.510	7.510	0.000	99	1797927	125.0	111.2	
83 Chlorodibromomethane	129	7.674	7.674	0.000	89	261168	25.0	21.9	
84 Ethylene Dibromide	107	7.778	7.778	0.000	97	270706	25.0	22.4	
85 Chlorobenzene	112	8.252	8.252	0.000	91	756733	25.0	22.2	
88 Ethylbenzene	91	8.349	8.349	0.000	99	1192814	25.0	20.4	
89 1,1,1,2-Tetrachloroethane	131	8.349	8.349	0.000	92	269054	25.0	20.8	
90 m-Xylene & p-Xylene	106	8.471	8.471	0.000	98	476007	25.0	20.8	
91 o-Xylene	106	8.897	8.897	0.000	97	473553	25.0	21.3	
92 Styrene	104	8.927	8.927	0.000	94	801925	25.0	21.9	
93 Bromoform	173	9.171	9.171	0.000	94	155037	25.0	20.5	
95 Isopropylbenzene	105	9.280	9.280	0.000	97	1218424	25.0	22.0	
97 Bromobenzene	156	9.627	9.627	0.000	92	303315	25.0	22.7	
98 1,1,2,2-Tetrachloroethane	83	9.700	9.700	0.000	96	331601	25.0	22.8	
100 N-Propylbenzene	91	9.718	9.718	0.000	99	1393026	25.0	22.3	
99 1,2,3-Trichloropropane	110	9.724	9.724	0.000	90	104090	25.0	21.9	
101 trans-1,4-Dichloro-2-butene	53	9.743	9.743	0.000	75	113903	25.0	17.5	
102 2-Chlorotoluene	126	9.822	9.822	0.000	94	278218	25.0	22.9	
104 1,3,5-Trimethylbenzene	105	9.901	9.901	0.000	93	1026010	25.0	22.6	
105 4-Chlorotoluene	91	9.931	9.931	0.000	99	906014	25.0	22.0	
106 tert-Butylbenzene	134	10.223	10.223	0.000	94	214981	25.0	22.8	
108 1,2,4-Trimethylbenzene	105	10.278	10.278	0.000	98	1062708	25.0	23.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.436	10.436	0.000	96	1283700	25.0	22.5	
110 1,3-Dichlorobenzene	146	10.570	10.570	0.000	96	565972	25.0	22.7	
111 4-Isopropyltoluene	119	10.576	10.576	0.000	97	1093275	25.0	22.6	
113 1,4-Dichlorobenzene	146	10.661	10.661	0.000	92	583582	25.0	22.8	
115 n-Butylbenzene	91	10.971	10.971	0.000	98	962208	25.0	22.3	
116 1,2-Dichlorobenzene	146	11.014	11.014	0.000	95	561429	25.0	22.8	
117 1,2-Dibromo-3-Chloropropane	75	11.750	11.750	0.000	71	65257	25.0	21.6	
119 1,2,4-Trichlorobenzene	180	12.425	12.425	0.000	93	391700	25.0	24.2	
120 Hexachlorobutadiene	225	12.541	12.541	0.000	96	174615	25.0	22.3	
121 Naphthalene	128	12.638	12.638	0.000	97	1051842	25.0	23.5	
122 1,2,3-Trichlorobenzene	180	12.845	12.845	0.000	95	370454	25.0	24.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00225	Amount Added:	12.50	Units: uL	
GAS CORP mix_00514	Amount Added:	12.50	Units: uL	
N_8260_Surr_00440	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00232	Amount Added:	1.00	Units: uL	Run Reagent

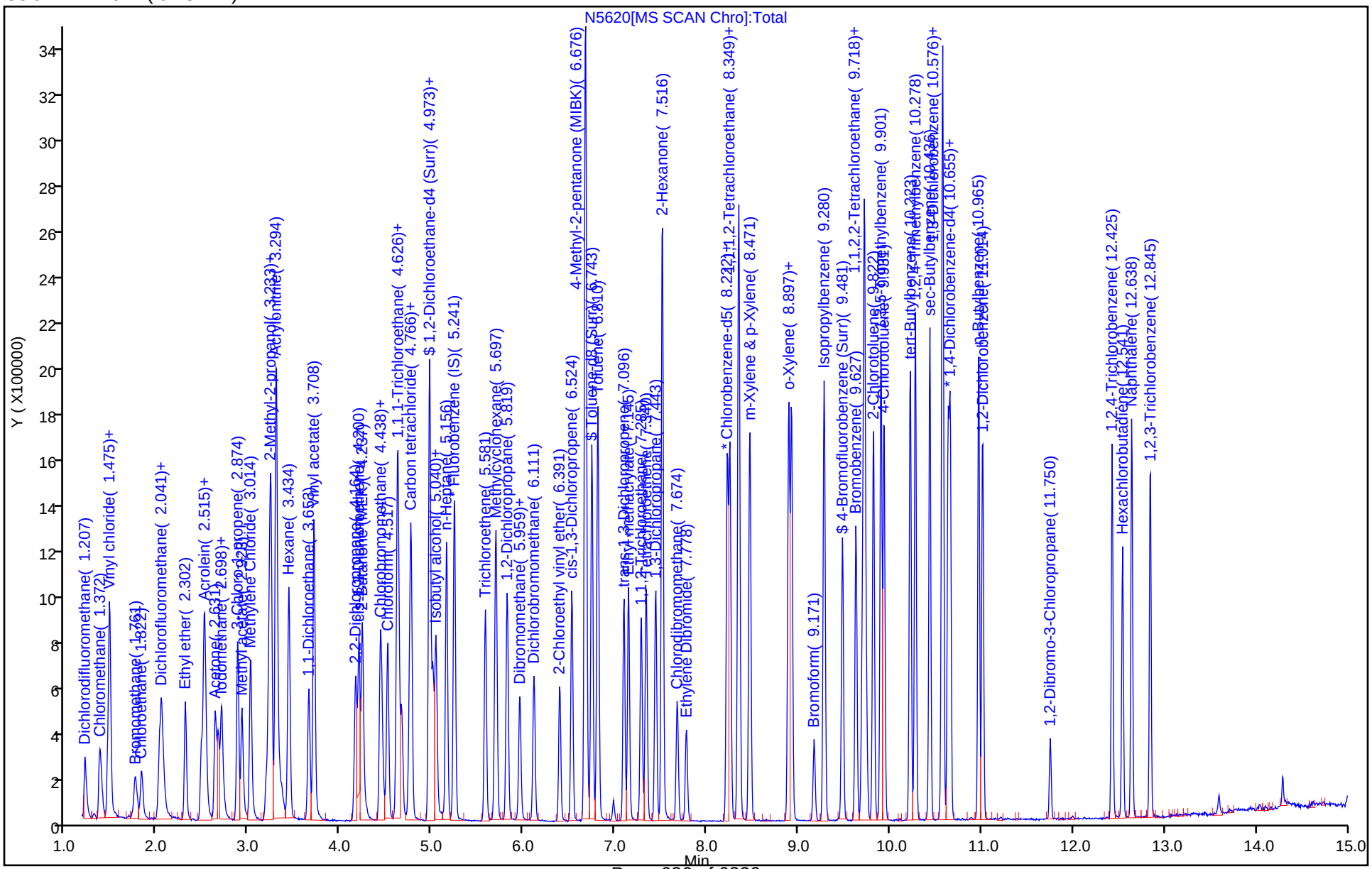
Report Date: 15-Jun-2022 23:43:42 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5620.D

Injection Date:	15-Jun-2022 19:26:30	Instrument ID:	HP5973N	Operator ID:	CR/AK
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

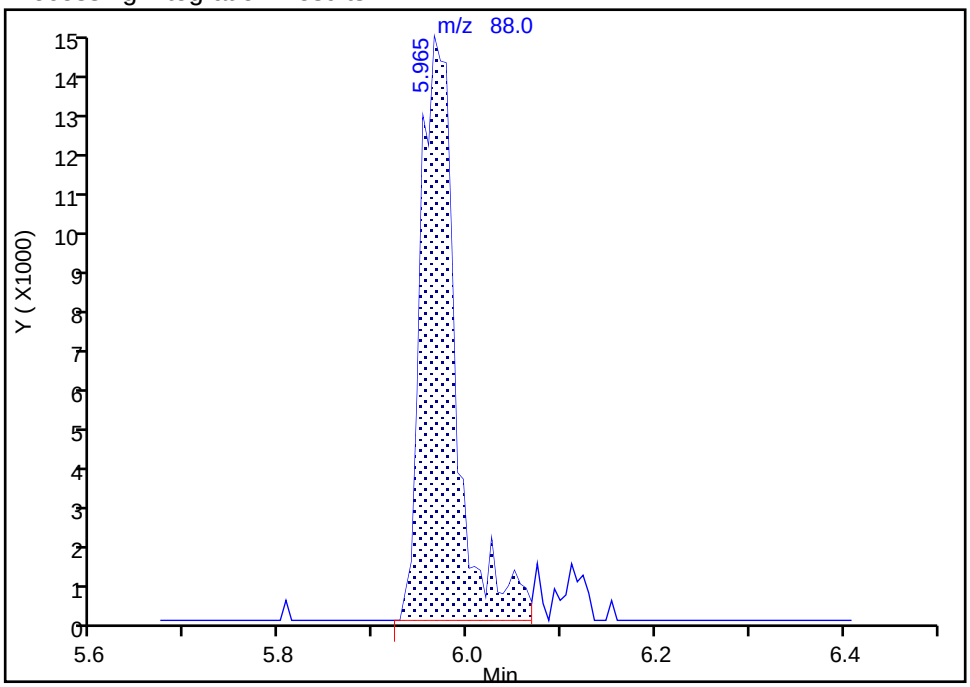
Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5620.D
Injection Date: 15-Jun-2022 19:26:30 Instrument ID: HP5973N
Lims ID: CCVIS
Client ID:
Operator ID: CR/AK ALS Bottle#: 24 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

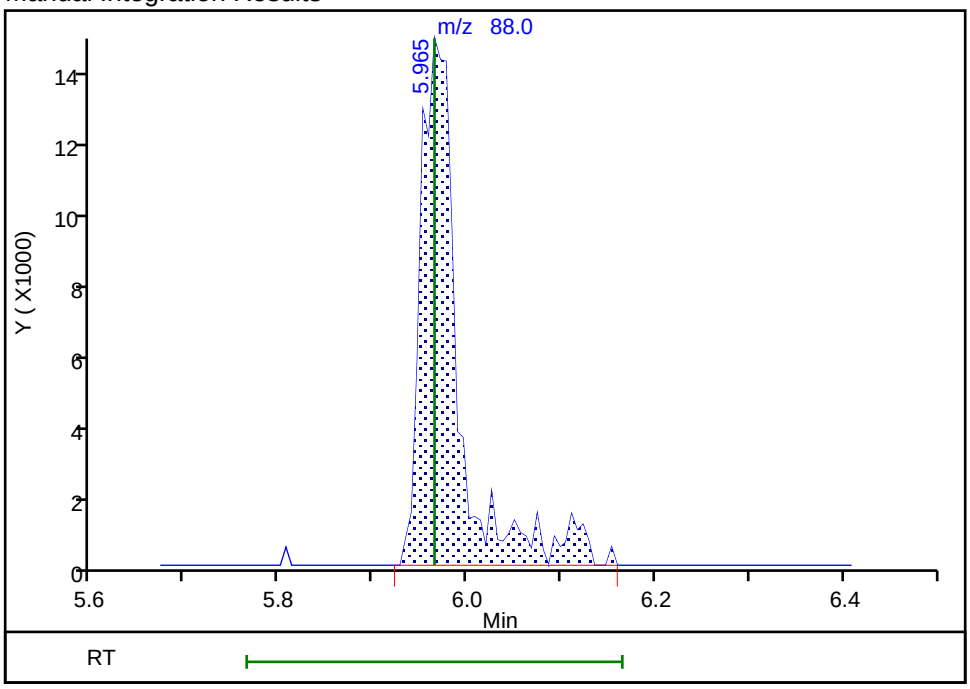
Processing Integration Results

RT: 5.96
Area: 36252
Amount: 382.4262
Amount Units: ug/L



Manual Integration Results

RT: 5.96
Area: 39218
Amount: 413.7148
Amount Units: ug/L



Reviewer: lapointec, 15-Jun-2022 23:43:27
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: ICV 480-629635/3 Calibration Date: 06/10/2022 14:15

Instrument ID: HP5975D Calib Start Date: 06/09/2022 15:00

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 06/09/2022 17:34

Lab File ID: D0745.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.672	1.642	0.1000	24.6	25.0	-1.8	50.0
Chloromethane	Ave	2.074	1.877	0.1000	22.6	25.0	-9.5	30.0
Vinyl chloride	Ave	1.405	1.394	0.1000	24.8	25.0	-0.8	30.0
Butadiene	Ave	1.207	1.201		24.9	25.0	-0.5	30.0
Bromomethane	Ave	0.9438	0.7534	0.1000	20.0	25.0	-20.2	50.0
Chloroethane	Ave	0.6527	0.5518	0.1000	21.1	25.0	-15.5	50.0
Trichlorofluoromethane	Ave	1.803	1.792	0.1000	24.9	25.0	-0.6	30.0
Dichlorofluoromethane	Ave	1.951	1.857		23.8	25.0	-4.8	30.0
Ethyl ether	Ave	1.062	0.9562		22.5	25.0	-10.0	30.0
Acrolein	Ave	0.2370	0.2460		130	125	3.8	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin1		1.119	0.1000	23.5	25.0	-5.9	30.0
1,1-Dichloroethene	Lin1		1.134	0.1000	25.8	25.0	3.3	30.0
Acetone	Ave	0.6081	0.6624	0.1000	136	125	8.9	50.0
Iodomethane	Ave	2.396	2.646		27.6	25.0	10.4	30.0
Carbon disulfide	Ave	3.707	4.154	0.1000	28.0	25.0	12.1	30.0
Allyl chloride	Ave	2.458	2.659		27.0	25.0	8.2	30.0
Methyl acetate	Ave	1.418	1.407	0.1000	49.6	50.0	-0.8	50.0
Methylene Chloride	Lin1		1.474	0.1000	26.7	25.0	6.9	30.0
2-Methyl-2-propanol	Ave	0.1701	0.2096		308	250	23.2	50.0
Methyl tert-butyl ether	Ave	3.280	3.657	0.1000	27.9	25.0	11.5	30.0
trans-1,2-Dichloroethene	Ave	1.223	1.372	0.1000	28.1	25.0	12.2	30.0
Acrylonitrile	Ave	0.7005	0.7181		256	250	2.5	30.0
Hexane	Lin1		2.185		26.0	25.0	3.8	30.0
1,1-Dichloroethane	Ave	2.610	2.848	0.2000	27.3	25.0	9.1	30.0
Vinyl acetate	Ave	3.404	3.788		55.6	50.0	11.3	30.0
2,2-Dichloropropane	Ave	1.623	1.902		29.3	25.0	17.1	30.0
cis-1,2-Dichloroethene	Ave	1.410	1.541	0.1000	27.3	25.0	9.3	30.0
2-Butanone (MEK)	Ave	0.8689	0.9023	0.1000	130	125	3.8	30.0
Chlorobromomethane	Ave	0.8471	0.9054		26.7	25.0	6.9	30.0
Tetrahydrofuran	Ave	0.5324	0.5759		54.1	50.0	8.2	30.0
Chloroform	Ave	2.560	2.678	0.2000	26.2	25.0	4.6	30.0
1,1,1-Trichloroethane	Lin1		2.233	0.1000	26.7	25.0	7.0	30.0
Cyclohexane	Lin1		2.839	0.1000	26.0	25.0	4.0	30.0
Carbon tetrachloride	Lin1		2.037	0.1000	26.2	25.0	4.7	30.0
1,1-Dichloropropene	Lin1		1.836		25.9	25.0	3.7	30.0
Benzene	Ave	4.662	5.008	0.5000	26.9	25.0	7.4	30.0
Isobutyl alcohol	Ave	0.0797	0.0928		728	625	16.4	50.0
1,2-Dichloroethane	Ave	2.130	2.161	0.1000	25.4	25.0	1.4	30.0
n-Heptane	Lin1		2.505		25.7	25.0	3.0	30.0
Trichloroethene	Ave	1.281	1.449	0.2000	28.3	25.0	13.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: ICV 480-629635/3 Calibration Date: 06/10/2022 14:15

Instrument ID: HP5975D Calib Start Date: 06/09/2022 15:00

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 06/09/2022 17:34

Lab File ID: D0745.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Lin1		2.174	0.1000	25.7	25.0	2.7	30.0
1,2-Dichloropropane	Ave	1.379	1.504	0.1000	27.3	25.0	9.1	30.0
1,4-Dioxane	Lin1		0.0074		743	500	48.7	50.0
Dibromomethane	Ave	0.9517	0.9870	0.1000	25.9	25.0	3.7	30.0
Bromodichloromethane	Ave	1.750	1.891	0.2000	27.0	25.0	8.0	30.0
2-Chloroethyl vinyl ether	Lin1		0.7205		26.1	25.0	4.2	30.0
cis-1,3-Dichloropropene	Ave	1.767	2.051	0.2000	29.0	25.0	16.1	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.9215	0.9356	0.1000	127	125	1.5	30.0
Toluene	Ave	1.402	1.508	0.4000	26.9	25.0	7.6	30.0
trans-1,3-Dichloropropene	Ave	0.8202	0.9382	0.1000	28.6	25.0	14.4	30.0
Ethyl methacrylate	Ave	0.6614	0.7166		27.1	25.0	8.4	30.0
1,1,2-Trichloroethane	Ave	0.4683	0.4954	0.1000	26.4	25.0	5.8	30.0
Tetrachloroethene	Lin1		0.7232	0.2000	25.7	25.0	2.7	30.0
1,3-Dichloropropane	Ave	0.8322	0.8751		26.3	25.0	5.2	30.0
2-Hexanone	Ave	0.6379	0.6448	0.1000	126	125	1.1	30.0
Dibromochloromethane	Ave	0.7141	0.7625	0.1000	26.7	25.0	6.8	30.0
1,2-Dibromoethane	Ave	0.6215	0.6525		26.2	25.0	5.0	30.0
Chlorobenzene	Ave	1.671	1.744	0.5000	26.1	25.0	4.3	30.0
Ethylbenzene	Lin1		2.799	0.1000	25.8	25.0	3.3	30.0
1,1,1,2-Tetrachloroethane	Ave	0.7304	0.7822		26.8	25.0	7.1	30.0
m,p-Xylene	Lin1		1.078	0.1000	25.6	25.0	2.4	30.0
o-Xylene	Lin1		1.141	0.3000	26.0	25.0	4.0	30.0
Styrene	Ave	1.649	1.774	0.3000	26.9	25.0	7.6	30.0
Bromoform	Ave	0.4467	0.4779	0.1000	26.7	25.0	7.0	50.0
Isopropylbenzene	Lin1		3.029	0.1000	25.5	25.0	2.1	30.0
Bromobenzene	Ave	0.6965	0.7706		27.7	25.0	10.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8001	0.8641	0.3000	27.0	25.0	8.0	30.0
N-Propylbenzene	Lin1		3.412		25.8	25.0	3.1	30.0
1,2,3-Trichloropropane	Ave	0.2008	0.2184		27.2	25.0	8.8	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.2471		29.7	25.0	18.9	50.0
2-Chlorotoluene	Ave	0.6188	0.7398		29.9	25.0	19.6	30.0
1,3,5-Trimethylbenzene	Lin1		2.583		25.6	25.0	2.6	30.0
4-Chlorotoluene	Ave	0.6168	0.7099		28.8	25.0	15.1	30.0
tert-Butylbenzene	Lin1		0.5279		25.5	25.0	1.9	30.0
1,2,4-Trimethylbenzene	Lin1		2.627		25.9	25.0	3.6	30.0
sec-Butylbenzene	Lin1		3.367		25.5	25.0	2.2	30.0
4-Isopropyltoluene	Lin1		2.955		26.1	25.0	4.2	30.0
1,3-Dichlorobenzene	Ave	1.317	1.417	0.6000	26.9	25.0	7.7	30.0
1,4-Dichlorobenzene	Ave	1.373	1.458	0.5000	26.6	25.0	6.2	30.0
n-Butylbenzene	Lin1		2.671		26.2	25.0	4.9	30.0
1,2-Dichlorobenzene	Ave	1.406	1.500	0.4000	26.7	25.0	6.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: ICV 480-629635/3 Calibration Date: 06/10/2022 14:15

Instrument ID: HP5975D Calib Start Date: 06/09/2022 15:00

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 06/09/2022 17:34

Lab File ID: D0745.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1521	0.1705	0.0500	28.0	25.0	12.1	50.0
1,2,4-Trichlorobenzene	Ave	1.047	1.254	0.2000	29.9	25.0	19.7	30.0
Hexachlorobutadiene	Ave	0.4887	0.6092		31.2	25.0	24.6	30.0
Naphthalene	Ave	2.782	3.421		30.7	25.0	23.0	30.0
1,2,3-Trichlorobenzene	Ave	1.093	1.312		30.0	25.0	20.0	30.0
Dibromofluoromethane (Surr)	Ave	1.686	1.668		24.7	25.0	-1.1	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.9102	0.9206		25.3	25.0	1.1	30.0
Toluene-d8 (Surr)	Ave	2.503	2.479		24.8	25.0	-1.0	30.0
4-Bromofluorobenzene (Surr)	Ave	0.7745	0.7416		23.9	25.0	-4.2	30.0

Report Date: 10-Jun-2022 14:34:54 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220610-106018.b\D0745.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 10-Jun-2022 14:15:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 480-0106018-003
Operator ID: AK Instrument ID: HP5975D
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220610-106018.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Jun-2022 12:29:53 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: kiwana Date: 10-Jun-2022 14:34:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.895	4.895	0.000	98	158773	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.249	7.255	-0.006	94	304381	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.163	9.163	0.000	95	305145	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.408	4.414	-0.006	94	264819	25.0	24.7	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.664	4.670	-0.006	98	146165	25.0	25.3	
$ 5 Toluene-d8 (Surr)	98	6.096	6.097	-0.007	94	754589	25.0	24.8	
$ 6 4-Bromofluorobenzene (Surr)	174	8.206	8.205	-0.006	92	225744	25.0	23.9	
10 Dichlorodifluoromethane	85	1.177	1.177	0.000	99	260749	25.0	24.6	
12 Chloromethane	50	1.347	1.347	0.000	99	298087	25.0	22.6	
13 Vinyl chloride	62	1.421	1.421	-0.001	98	221276	25.0	24.8	
144 Butadiene	54	1.439	1.445	-0.006	95	190753	25.0	24.9	
14 Bromomethane	94	1.713	1.713	0.000	92	119620	25.0	20.0	
15 Chloroethane	64	1.805	1.805	0.000	97	87606	25.0	21.1	
17 Trichlorofluoromethane	101	1.994	2.000	-0.006	98	284588	25.0	24.9	
16 Dichlorofluoromethane	67	2.006	2.006	0.000	98	294913	25.0	23.8	
18 Ethyl ether	59	2.280	2.286	-0.006	97	151820	25.0	22.5	
20 Acrolein	56	2.445	2.451	-0.006	99	195316	125.0	129.7	
21 112TCTFE	101	2.469	2.475	-0.006	94	177672	25.0	23.5	
22 1,1-Dichloroethene	96	2.481	2.487	-0.006	94	180084	25.0	25.8	
23 Acetone	43	2.597	2.597	0.000	99	525870	125.0	136.2	
25 Iodomethane	142	2.628	2.634	-0.006	99	420117	25.0	27.6	
26 Carbon disulfide	76	2.664	2.664	0.000	100	659620	25.0	28.0	
28 3-Chloro-1-propene	41	2.823	2.829	-0.006	89	422221	25.0	27.0	
27 Methyl acetate	43	2.871	2.872	-0.001	100	446877	50.0	49.6	
30 Methylene Chloride	84	2.957	2.963	-0.006	95	234014	25.0	26.7	
31 2-Methyl-2-propanol	59	3.127	3.115	0.012	99	332729	250.0	308.0	
32 Methyl tert-butyl ether	73	3.152	3.158	-0.006	98	580580	25.0	27.9	
34 trans-1,2-Dichloroethene	96	3.164	3.170	-0.006	94	217887	25.0	28.1	
33 Acrylonitrile	53	3.213	3.213	0.000	98	1140132	250.0	256.3	
35 Hexane	57	3.341	3.347	-0.006	95	346996	25.0	26.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.536	3.542	-0.006	96	452210	25.0	27.3	
37 Vinyl acetate	43	3.585	3.585	0.000	96	1202708	50.0	55.6	
44 2,2-Dichloropropane	77	3.987	3.993	-0.006	94	301915	25.0	29.3	
45 cis-1,2-Dichloroethene	96	4.018	4.018	0.000	85	244702	25.0	27.3	
43 2-Butanone (MEK)	43	4.042	4.042	0.000	97	716338	125.0	129.8	
48 Chlorobromomethane	128	4.219	4.219	0.000	94	143758	25.0	26.7	
49 Tetrahydrofuran	42	4.231	4.231	0.000	94	182886	50.0	54.1	
50 Chloroform	83	4.280	4.286	-0.006	95	425215	25.0	26.2	
51 1,1,1-Trichloroethane	97	4.377	4.383	-0.006	98	354498	25.0	26.7	
52 Cyclohexane	56	4.383	4.390	-0.007	94	450688	25.0	26.0	
55 Carbon tetrachloride	117	4.493	4.499	-0.006	98	323351	25.0	26.2	
54 1,1-Dichloropropene	75	4.505	4.505	0.000	93	291437	25.0	25.9	
57 Benzene	78	4.676	4.676	0.000	96	795160	25.0	26.9	
53 Isobutyl alcohol	43	4.676	4.676	0.000	94	368312	625.0	727.8	
58 1,2-Dichloroethane	62	4.725	4.731	-0.006	96	343030	25.0	25.4	
59 n-Heptane	43	4.816	4.822	-0.006	97	397758	25.0	25.7	
62 Trichloroethene	95	5.170	5.176	-0.006	96	230019	25.0	28.3	
64 Methylcyclohexane	83	5.273	5.274	-0.001	97	345202	25.0	25.7	
65 1,2-Dichloropropane	63	5.365	5.365	0.000	95	238751	25.0	27.3	
66 1,4-Dioxane	88	5.475	5.470	0.000	39	45282	500.0	743.3	
67 Dibromomethane	93	5.475	5.475	0.000	97	156711	25.0	25.9	
68 Dichlorobromomethane	83	5.590	5.597	-0.007	97	300167	25.0	27.0	
69 2-Chloroethyl vinyl ether	63	5.804	5.810	-0.006	92	114390	25.0	26.1	
72 cis-1,3-Dichloropropene	75	5.920	5.926	-0.006	92	325597	25.0	29.0	
73 4-Methyl-2-pentanone (MIBK)	43	6.023	6.024	-0.006	98	1423847	125.0	126.9	
74 Toluene	92	6.151	6.146	0.000	97	459075	25.0	26.9	
77 trans-1,3-Dichloropropene	75	6.359	6.359	-0.006	96	285568	25.0	28.6	
75 Ethyl methacrylate	69	6.389	6.384	0.000	95	218113	25.0	27.1	
79 1,1,2-Trichloroethane	83	6.511	6.506	0.000	93	150781	25.0	26.4	
81 Tetrachloroethene	166	6.572	6.567	0.000	96	220128	25.0	25.7	
82 1,3-Dichloropropane	76	6.639	6.634	0.000	97	266374	25.0	26.3	
80 2-Hexanone	43	6.676	6.676	-0.006	98	981254	125.0	126.3	
83 Chlorodibromomethane	129	6.822	6.822	-0.006	90	232096	25.0	26.7	
84 Ethylene Dibromide	107	6.907	6.908	-0.006	98	198615	25.0	26.2	
87 Chlorobenzene	112	7.273	7.273	-0.006	96	530692	25.0	26.1	
88 Ethylbenzene	91	7.340	7.334	0.000	99	851888	25.0	25.8	
89 1,1,1,2-Tetrachloroethane	131	7.346	7.340	0.000	97	238073	25.0	26.8	
90 m-Xylene & p-Xylene	106	7.432	7.425	0.000	99	328181	25.0	25.6	
91 o-Xylene	106	7.755	7.754	-0.006	98	347227	25.0	26.0	
92 Styrene	104	7.779	7.773	0.000	95	540042	25.0	26.9	
95 Bromoform	173	7.974	7.968	0.000	96	145460	25.0	26.7	
94 Isopropylbenzene	105	8.047	8.047	0.000	96	924184	25.0	25.5	
101 Bromobenzene	156	8.334	8.334	0.000	92	235153	25.0	27.7	
97 1,1,2,2-Tetrachloroethane	83	8.352	8.358	-0.006	95	263676	25.0	27.0	
99 N-Propylbenzene	91	8.383	8.383	0.000	99	1041111	25.0	25.8	
100 1,2,3-Trichloropropane	110	8.389	8.389	0.000	86	66648	25.0	27.2	
98 trans-1,4-Dichloro-2-butene	53	8.389	8.395	-0.006	78	75390	25.0	29.7	
103 2-Chlorotoluene	126	8.480	8.480	0.000	97	225748	25.0	29.9	
102 1,3,5-Trimethylbenzene	105	8.523	8.529	-0.006	94	788263	25.0	25.6	
105 4-Chlorotoluene	126	8.565	8.572	-0.007	97	216634	25.0	28.8	
106 tert-Butylbenzene	134	8.797	8.797	0.000	94	161099	25.0	25.5	
107 1,2,4-Trimethylbenzene	105	8.840	8.846	-0.006	98	801625	25.0	25.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.974	8.980	-0.006	95	1027275	25.0	25.5	
110 4-Isopropyltoluene	119	9.096	9.096	0.000	98	901788	25.0	26.1	
111 1,3-Dichlorobenzene	146	9.102	9.108	-0.006	98	432466	25.0	26.9	
113 1,4-Dichlorobenzene	146	9.181	9.181	0.000	95	445035	25.0	26.6	
115 n-Butylbenzene	91	9.437	9.443	-0.006	99	815047	25.0	26.2	
116 1,2-Dichlorobenzene	146	9.498	9.504	-0.006	99	457687	25.0	26.7	
117 1,2-Dibromo-3-Chloropropane	75	10.181	10.181	0.000	85	52012	25.0	28.0	
119 1,2,4-Trichlorobenzene	180	10.845	10.846	-0.001	94	382523	25.0	29.9	
120 Hexachlorobutadiene	225	10.949	10.949	0.000	98	185889	25.0	31.2	
121 Naphthalene	128	11.053	11.059	-0.006	97	1043781	25.0	30.7	
122 1,2,3-Trichlorobenzene	180	11.248	11.254	-0.006	96	400289	25.0	30.0	

QC Flag Legend

Processing Flags

Reagents:

SS 8260 CORP_00101	Amount Added: 12.50	Units: uL	
SS GAS CORP_00456	Amount Added: 12.50	Units: uL	
D 8260 IS/SUR_00040	Amount Added: 1.00	Units: uL	Run Reagent

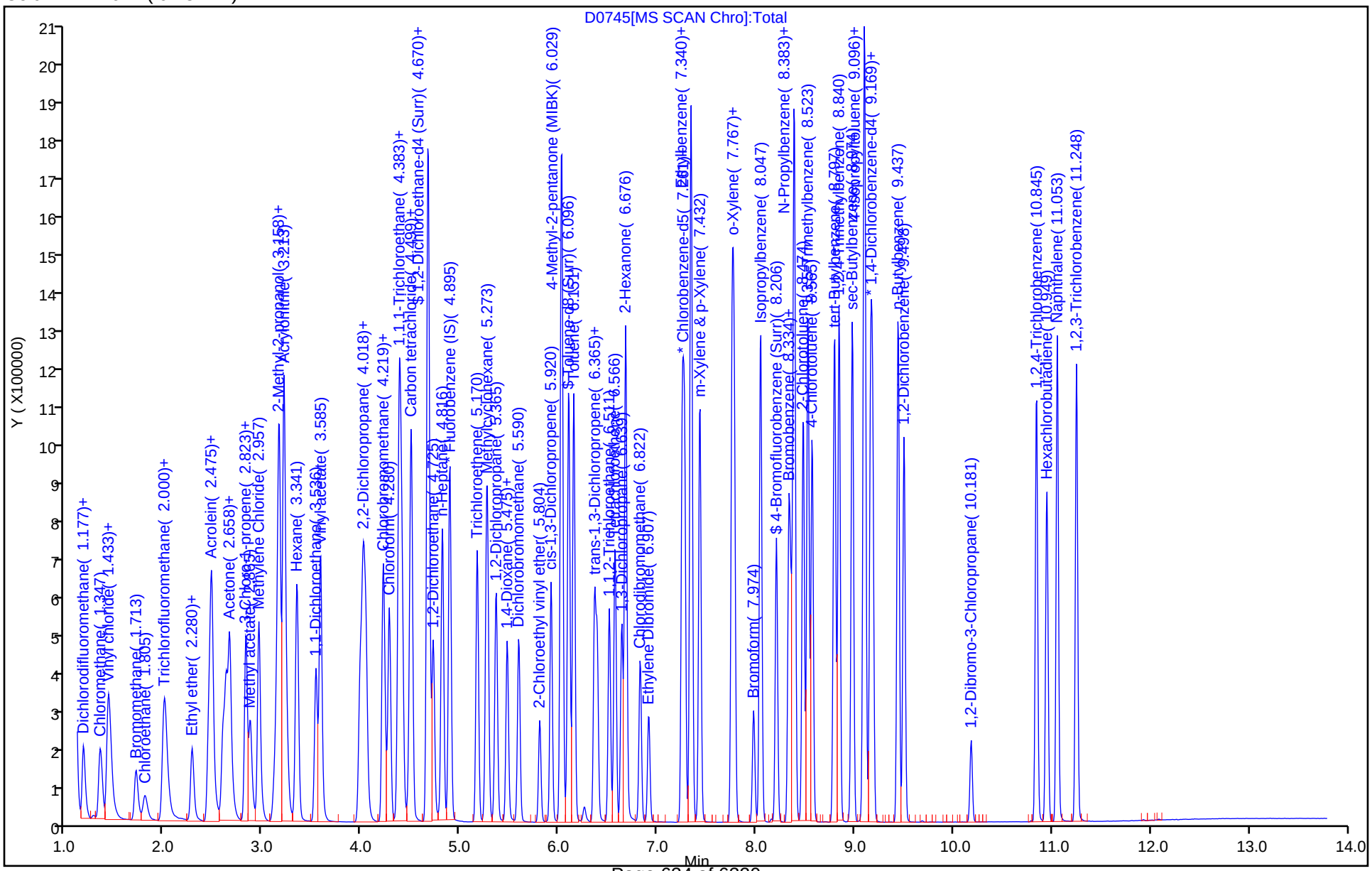
Report Date: 10-Jun-2022 14:34:54 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220610-106018.b\D0745.D

Injection Date:	10-Jun-2022 14:15:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	ICV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: CCVIS 480-629695/4 Calibration Date: 06/11/2022 23:15

Instrument ID: HP5975D Calib Start Date: 06/09/2022 15:00

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 06/09/2022 17:34

Lab File ID: D0810.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.672	1.560	0.1000	23.3	25.0	-6.7	50.0
Chloromethane	Ave	2.074	1.741	0.1000	21.0	25.0	-16.0	20.0
Vinyl chloride	Ave	1.405	1.296	0.1000	23.1	25.0	-7.7	20.0
Butadiene	Ave	1.207	1.116		23.1	25.0	-7.6	20.0
Bromomethane	Ave	0.9438	0.8486	0.1000	22.5	25.0	-10.1	50.0
Chloroethane	Ave	0.6527	0.6239	0.1000	23.9	25.0	-4.4	50.0
Trichlorofluoromethane	Ave	1.803	1.799	0.1000	24.9	25.0	-0.2	20.0
Dichlorofluoromethane	Ave	1.951	1.833		23.5	25.0	-6.0	20.0
Ethyl ether	Ave	1.062	1.053		24.8	25.0	-0.8	20.0
Acrolein	Ave	0.2370	0.2369		125	125	-0.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin1		1.105	0.1000	23.2	25.0	-7.1	20.0
1,1-Dichloroethene	Lin1		1.154	0.1000	26.3	25.0	5.1	20.0
Acetone	Ave	0.6081	0.5576	0.1000	115	125	-8.3	50.0
Iodomethane	Ave	2.396	2.572		26.8	25.0	7.4	20.0
Carbon disulfide	Ave	3.707	4.038	0.1000	27.2	25.0	8.9	20.0
Allyl chloride	Ave	2.458	2.331		23.7	25.0	-5.2	20.0
Methyl acetate	Ave	1.418	1.366	0.1000	48.2	50.0	-3.7	50.0
Methylene Chloride	Lin1		1.430	0.1000	25.9	25.0	3.8	20.0
2-Methyl-2-propanol	Ave	0.1701	0.1836		270	250	7.9	50.0
Methyl tert-butyl ether	Ave	3.280	3.477	0.1000	26.5	25.0	6.0	20.0
trans-1,2-Dichloroethene	Ave	1.223	1.362	0.1000	27.8	25.0	11.4	20.0
Acrylonitrile	Ave	0.7005	0.7002		250	250	-0.0	20.0
Hexane	Lin1		2.121		25.2	25.0	0.8	20.0
1,1-Dichloroethane	Ave	2.610	2.807	0.2000	26.9	25.0	7.6	20.0
Vinyl acetate	Ave	3.404	3.581		52.6	50.0	5.2	20.0
2,2-Dichloropropane	Ave	1.623	1.762		27.1	25.0	8.5	20.0
cis-1,2-Dichloroethene	Ave	1.410	1.511	0.1000	26.8	25.0	7.1	20.0
2-Butanone (MEK)	Ave	0.8689	0.8350	0.1000	120	125	-3.9	20.0
Chlorobromomethane	Ave	0.8471	0.8890		26.2	25.0	4.9	20.0
Tetrahydrofuran	Ave	0.5324	0.5403		50.7	50.0	1.5	20.0
Chloroform	Ave	2.560	2.620	0.2000	25.6	25.0	2.4	20.0
1,1,1-Trichloroethane	Lin1		2.192	0.1000	26.3	25.0	5.0	20.0
Cyclohexane	Lin1		2.795	0.1000	25.6	25.0	2.4	20.0
Carbon tetrachloride	Lin1		2.047	0.1000	26.3	25.0	5.2	20.0
1,1-Dichloropropene	Lin1		1.850		26.1	25.0	4.5	20.0
Benzene	Ave	4.662	5.040	0.5000	27.0	25.0	8.1	20.0
Isobutyl alcohol	Ave	0.0797	0.0795		623	625	-0.3	50.0
1,2-Dichloroethane	Ave	2.130	2.167	0.1000	25.4	25.0	1.7	20.0
n-Heptane	Lin1		2.347		24.1	25.0	-3.4	20.0
Trichloroethene	Ave	1.281	1.454	0.2000	28.4	25.0	13.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: CCVIS 480-629695/4 Calibration Date: 06/11/2022 23:15

Instrument ID: HP5975D Calib Start Date: 06/09/2022 15:00

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 06/09/2022 17:34

Lab File ID: D0810.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Lin1		2.121	0.1000	25.1	25.0	0.2	20.0
1,2-Dichloropropane	Ave	1.379	1.505	0.1000	27.3	25.0	9.2	20.0
1,4-Dioxane	Lin1		0.0047		478	500	-4.5	50.0
Dibromomethane	Ave	0.9517	0.9882	0.1000	26.0	25.0	3.8	20.0
Bromodichloromethane	Ave	1.750	1.929	0.2000	27.5	25.0	10.2	20.0
2-Chloroethyl vinyl ether	Lin1		0.5547		20.2	25.0	-19.1	20.0
cis-1,3-Dichloropropene	Ave	1.767	2.056	0.2000	29.1	25.0	16.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.9215	0.9249	0.1000	125	125	0.4	20.0
Toluene	Ave	1.402	1.547	0.4000	27.6	25.0	10.3	20.0
trans-1,3-Dichloropropene	Ave	0.8202	0.9470	0.1000	28.9	25.0	15.5	20.0
Ethyl methacrylate	Ave	0.6614	0.7378		27.9	25.0	11.6	20.0
1,1,2-Trichloroethane	Ave	0.4683	0.5033	0.1000	26.9	25.0	7.5	20.0
Tetrachloroethene	Lin1		0.7265	0.2000	25.8	25.0	3.1	20.0
1,3-Dichloropropane	Ave	0.8322	0.9114		27.4	25.0	9.5	20.0
2-Hexanone	Ave	0.6379	0.6397	0.1000	125	125	0.3	20.0
Dibromochloromethane	Ave	0.7141	0.7925	0.1000	27.7	25.0	11.0	20.0
1,2-Dibromoethane	Ave	0.6215	0.6690		26.9	25.0	7.6	20.0
Chlorobenzene	Ave	1.671	1.786	0.5000	26.7	25.0	6.9	20.0
Ethylbenzene	Lin1		2.810	0.1000	25.9	25.0	3.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.7304	0.7792		26.7	25.0	6.7	20.0
m,p-Xylene	Lin1		1.083	0.1000	25.7	25.0	2.8	20.0
o-Xylene	Lin1		1.111	0.3000	25.3	25.0	1.4	20.0
Styrene	Ave	1.649	1.822	0.3000	27.6	25.0	10.5	20.0
Bromoform	Ave	0.4467	0.4928	0.1000	27.6	25.0	10.3	50.0
Isopropylbenzene	Lin1		2.934	0.1000	24.7	25.0	-1.0	20.0
Bromobenzene	Ave	0.6965	0.7758		27.8	25.0	11.4	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8001	0.8408	0.3000	26.3	25.0	5.1	20.0
N-Propylbenzene	Lin1		3.334		25.2	25.0	0.8	20.0
1,2,3-Trichloropropane	Ave	0.2008	0.2174		27.1	25.0	8.3	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.2009		24.3	25.0	-2.8	50.0
2-Chlorotoluene	Ave	0.6188	0.7174		29.0	25.0	15.9	20.0
1,3,5-Trimethylbenzene	Lin1		2.509		24.9	25.0	-0.3	20.0
4-Chlorotoluene	Ave	0.6168	0.7091		28.7	25.0	14.9	20.0
tert-Butylbenzene	Lin1		0.5117		24.7	25.0	-1.2	20.0
1,2,4-Trimethylbenzene	Lin1		2.565		25.3	25.0	1.2	20.0
sec-Butylbenzene	Lin1		3.307		25.1	25.0	0.4	20.0
4-Isopropyltoluene	Lin1		2.866		25.3	25.0	1.1	20.0
1,3-Dichlorobenzene	Ave	1.317	1.421	0.6000	27.0	25.0	7.9	20.0
1,4-Dichlorobenzene	Ave	1.373	1.443	0.5000	26.3	25.0	5.1	20.0
n-Butylbenzene	Lin1		2.606		25.6	25.0	2.3	20.0
1,2-Dichlorobenzene	Ave	1.406	1.493	0.4000	26.5	25.0	6.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: CCVIS 480-629695/4 Calibration Date: 06/11/2022 23:15

Instrument ID: HP5975D Calib Start Date: 06/09/2022 15:00

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 06/09/2022 17:34

Lab File ID: D0810.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1521	0.1722	0.0500	28.3	25.0	13.3	50.0
1,2,4-Trichlorobenzene	Ave	1.047	1.214	0.2000	29.0	25.0	15.9	20.0
Hexachlorobutadiene	Ave	0.4887	0.5946		30.4	25.0	21.7*	20.0
Naphthalene	Ave	2.782	3.287		29.5	25.0	18.2	20.0
1,2,3-Trichlorobenzene	Ave	1.093	1.263		28.9	25.0	15.5	20.0
Dibromofluoromethane (Surr)	Ave	1.686	1.632		24.2	25.0	-3.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.9102	0.9082		24.9	25.0	-0.2	20.0
Toluene-d8 (Surr)	Ave	2.503	2.509		25.1	25.0	0.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7745	0.7583		24.5	25.0	-2.1	20.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0810.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 11-Jun-2022 23:15:30 ALS Bottle#: 34 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0106025-004
Operator ID: AK Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 12-Jun-2022 17:30:02 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: lapointec Date: 12-Jun-2022 17:09:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.895	4.895	0.000	98	157399	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.255	7.255	0.000	91	303158	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.163	9.163	0.000	95	310029	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.414	4.414	0.000	95	256940	25.0	24.2	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.670	4.670	0.000	99	142950	25.0	24.9	
$ 5 Toluene-d8 (Surr)	98	6.102	6.102	0.000	94	760610	25.0	25.1	
$ 6 4-Bromofluorobenzene (Surr)	174	8.206	8.206	0.000	92	229898	25.0	24.5	
10 Dichlorodifluoromethane	85	1.183	1.183	0.000	99	245500	25.0	23.3	
12 Chloromethane	50	1.353	1.353	0.000	99	274065	25.0	21.0	
13 Vinyl chloride	62	1.426	1.426	0.000	98	204020	25.0	23.1	
144 Butadiene	54	1.439	1.439	0.000	95	175635	25.0	23.1	
14 Bromomethane	94	1.719	1.719	0.000	93	133570	25.0	22.5	
15 Chloroethane	64	1.811	1.811	0.000	97	98208	25.0	23.9	
17 Trichlorofluoromethane	101	2.000	2.000	0.000	98	283123	25.0	24.9	
16 Dichlorofluoromethane	67	2.012	2.012	0.000	98	288480	25.0	23.5	
18 Ethyl ether	59	2.280	2.280	0.000	98	165756	25.0	24.8	
20 Acrolein	56	2.451	2.451	0.000	100	186412	125.0	124.9	
21 112TCTFE	101	2.469	2.469	0.000	93	173937	25.0	23.2	
22 1,1-Dichloroethene	96	2.481	2.481	0.000	96	181649	25.0	26.3	
23 Acetone	43	2.597	2.597	0.000	99	438792	125.0	114.6	
25 Iodomethane	142	2.634	2.634	0.000	99	404865	25.0	26.8	
26 Carbon disulfide	76	2.664	2.664	0.000	100	635605	25.0	27.2	
28 3-Chloro-1-propene	41	2.829	2.829	0.000	90	366908	25.0	23.7	
27 Methyl acetate	43	2.871	2.871	0.000	100	430093	50.0	48.2	
30 Methylene Chloride	84	2.963	2.963	0.000	95	225135	25.0	25.9	
31 2-Methyl-2-propanol	59	3.121	3.121	0.000	98	288943	250.0	269.8	
32 Methyl tert-butyl ether	73	3.152	3.152	0.000	99	547257	25.0	26.5	
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.000	93	214346	25.0	27.8	
33 Acrylonitrile	53	3.213	3.213	0.000	98	1102035	250.0	249.9	
35 Hexane	57	3.347	3.347	0.000	95	333802	25.0	25.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.536	3.536	0.000	97	441870	25.0	26.9	
37 Vinyl acetate	43	3.585	3.585	0.000	96	1127432	50.0	52.6	
44 2,2-Dichloropropane	77	3.987	3.987	0.000	94	277375	25.0	27.1	
45 cis-1,2-Dichloroethene	96	4.017	4.017	0.000	86	237761	25.0	26.8	
43 2-Butanone (MEK)	43	4.042	4.042	0.000	97	657113	125.0	120.1	
48 Chlorobromomethane	128	4.219	4.219	0.000	95	139922	25.0	26.2	
49 Tetrahydrofuran	42	4.231	4.231	0.000	93	170078	50.0	50.7	
50 Chloroform	83	4.280	4.280	0.000	96	412448	25.0	25.6	
51 1,1,1-Trichloroethane	97	4.377	4.377	0.000	98	344965	25.0	26.3	
52 Cyclohexane	56	4.389	4.389	0.000	94	439959	25.0	25.6	
55 Carbon tetrachloride	117	4.493	4.493	0.000	96	322189	25.0	26.3	
54 1,1-Dichloropropene	75	4.505	4.505	0.000	94	291146	25.0	26.1	
57 Benzene	78	4.676	4.676	0.000	96	793322	25.0	27.0	
53 Isobutyl alcohol	43	4.676	4.676	0.000	93	312733	625.0	623.3	
58 1,2-Dichloroethane	62	4.725	4.725	0.000	96	341085	25.0	25.4	
59 n-Heptane	43	4.822	4.822	0.000	97	369459	25.0	24.1	
62 Trichloroethene	95	5.170	5.170	0.000	96	228864	25.0	28.4	
64 Methylcyclohexane	83	5.273	5.273	0.000	98	333862	25.0	25.1	
65 1,2-Dichloropropane	63	5.365	5.365	0.000	94	236952	25.0	27.3	
66 1,4-Dioxane	88	5.474	5.474	0.000	34	28648	500.0	477.6	
67 Dibromomethane	93	5.474	5.474	0.000	96	155544	25.0	26.0	
68 Dichlorobromomethane	83	5.590	5.590	0.000	98	303552	25.0	27.5	
69 2-Chloroethyl vinyl ether	63	5.804	5.804	0.000	92	87311	25.0	20.2	
72 cis-1,3-Dichloropropene	75	5.920	5.920	0.000	93	323676	25.0	29.1	
73 4-Methyl-2-pentanone (MIBK)	43	6.029	6.029	0.000	98	1401885	125.0	125.5	
74 Toluene	92	6.151	6.151	0.000	97	468861	25.0	27.6	
77 trans-1,3-Dichloropropene	75	6.365	6.365	0.000	97	287105	25.0	28.9	
75 Ethyl methacrylate	69	6.389	6.389	0.000	96	223670	25.0	27.9	
79 1,1,2-Trichloroethane	83	6.511	6.511	0.000	93	152582	25.0	26.9	
81 Tetrachloroethene	166	6.572	6.572	0.000	96	220241	25.0	25.8	
82 1,3-Dichloropropane	76	6.639	6.639	0.000	96	276310	25.0	27.4	
80 2-Hexanone	43	6.675	6.675	0.000	99	969678	125.0	125.3	
83 Chlorodibromomethane	129	6.828	6.828	0.000	90	240259	25.0	27.7	
84 Ethylene Dibromide	107	6.913	6.913	0.000	99	202811	25.0	26.9	
87 Chlorobenzene	112	7.273	7.273	0.000	97	541454	25.0	26.7	
88 Ethylbenzene	91	7.340	7.340	0.000	99	851957	25.0	25.9	
89 1,1,1,2-Tetrachloroethane	131	7.346	7.346	0.000	96	236218	25.0	26.7	
90 m-Xylene & p-Xylene	106	7.431	7.431	0.000	99	328273	25.0	25.7	
91 o-Xylene	106	7.761	7.761	0.000	98	336928	25.0	25.3	
92 Styrene	104	7.779	7.779	0.000	94	552368	25.0	27.6	
95 Bromoform	173	7.974	7.974	0.000	96	149390	25.0	27.6	
94 Isopropylbenzene	105	8.047	8.047	0.000	96	909593	25.0	24.7	
101 Bromobenzene	156	8.334	8.334	0.000	92	240516	25.0	27.8	
97 1,1,2,2-Tetrachloroethane	83	8.358	8.358	0.000	96	260675	25.0	26.3	
99 N-Propylbenzene	91	8.382	8.382	0.000	99	1033581	25.0	25.2	
100 1,2,3-Trichloropropane	110	8.389	8.389	0.000	87	67411	25.0	27.1	
98 trans-1,4-Dichloro-2-butene	53	8.395	8.395	0.000	77	62273	25.0	24.3	
103 2-Chlorotoluene	126	8.480	8.480	0.000	97	222414	25.0	29.0	
102 1,3,5-Trimethylbenzene	105	8.529	8.529	0.000	94	777892	25.0	24.9	
105 4-Chlorotoluene	126	8.571	8.571	0.000	97	219828	25.0	28.7	
106 tert-Butylbenzene	134	8.797	8.797	0.000	94	158642	25.0	24.7	
107 1,2,4-Trimethylbenzene	105	8.840	8.840	0.000	97	795308	25.0	25.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.974	8.974	0.000	95	1025338	25.0	25.1	
110 4-Isopropyltoluene	119	9.096	9.096	0.000	98	888389	25.0	25.3	
111 1,3-Dichlorobenzene	146	9.108	9.108	0.000	98	440468	25.0	27.0	
113 1,4-Dichlorobenzene	146	9.181	9.181	0.000	95	447252	25.0	26.3	
115 n-Butylbenzene	91	9.443	9.443	0.000	98	807810	25.0	25.6	
116 1,2-Dichlorobenzene	146	9.504	9.504	0.000	99	462990	25.0	26.5	
117 1,2-Dibromo-3-Chloropropane	75	10.181	10.181	0.000	85	53402	25.0	28.3	
119 1,2,4-Trichlorobenzene	180	10.845	10.845	0.000	95	376281	25.0	29.0	
120 Hexachlorobutadiene	225	10.949	10.949	0.000	98	184333	25.0	30.4	
121 Naphthalene	128	11.053	11.053	0.000	97	1019128	25.0	29.5	
122 1,2,3-Trichlorobenzene	180	11.248	11.248	0.000	96	391433	25.0	28.9	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00224	Amount Added: 12.50	Units: uL	
GAS CORP mix_00513	Amount Added: 12.50	Units: uL	
D 8260 IS/SUR_00040	Amount Added: 1.00	Units: uL	Run Reagent

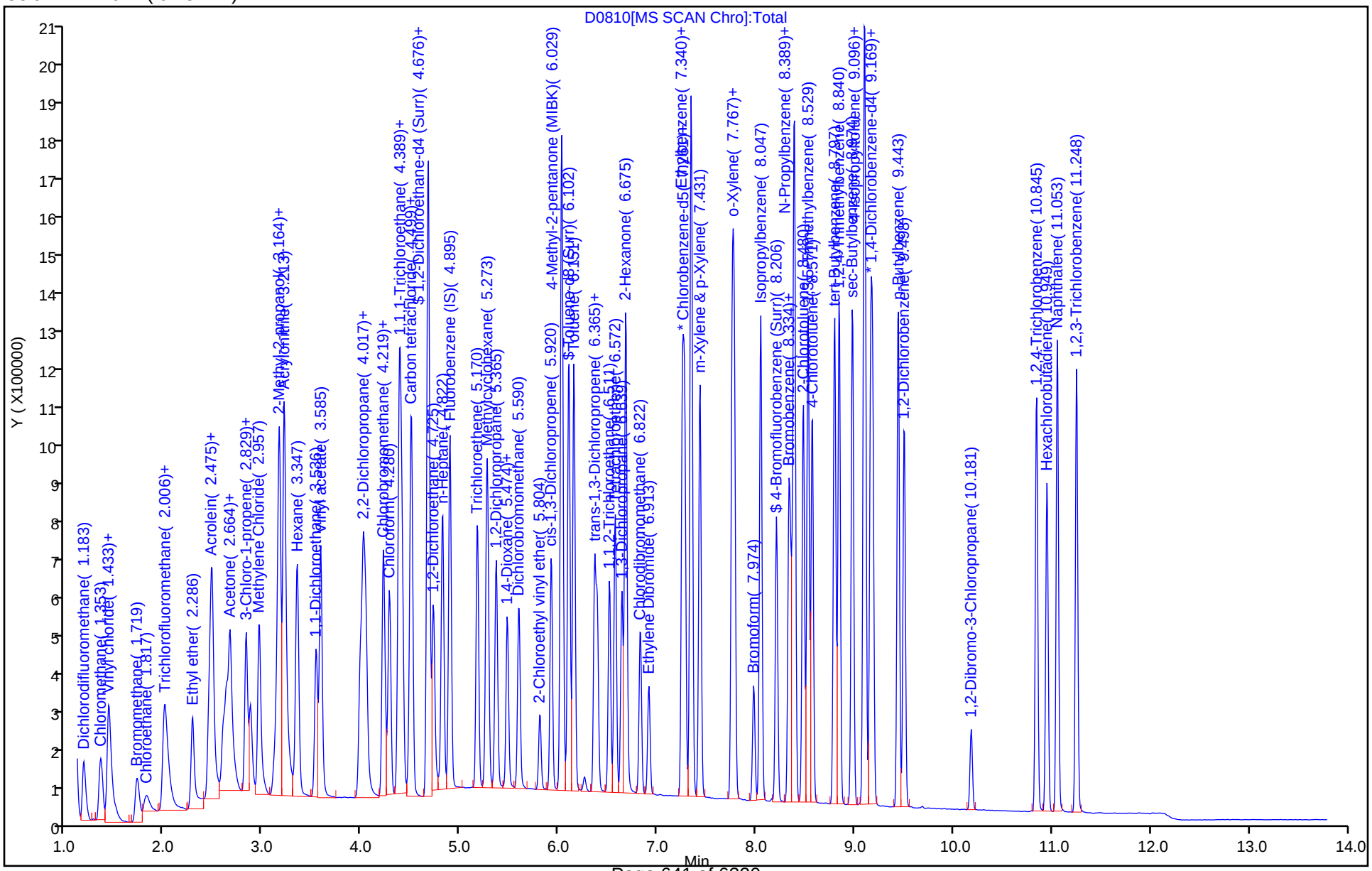
Report Date: 12-Jun-2022 17:30:02 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0810.D

Injection Date:	11-Jun-2022 23:15:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5154.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 06-Jun-2022 16:59:30 ALS Bottle#: 27 Worklist Smp#: 7
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0105916-007
Operator ID: LH Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jun-2022 17:11:57 Calib Date: 18-May-2022 21:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220518-105585.b\N4543.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1601

First Level Reviewer: HillL Date: 06-Jun-2022 17:11:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 4 BFB	95	4.759	4.759	0.000	88	229741	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

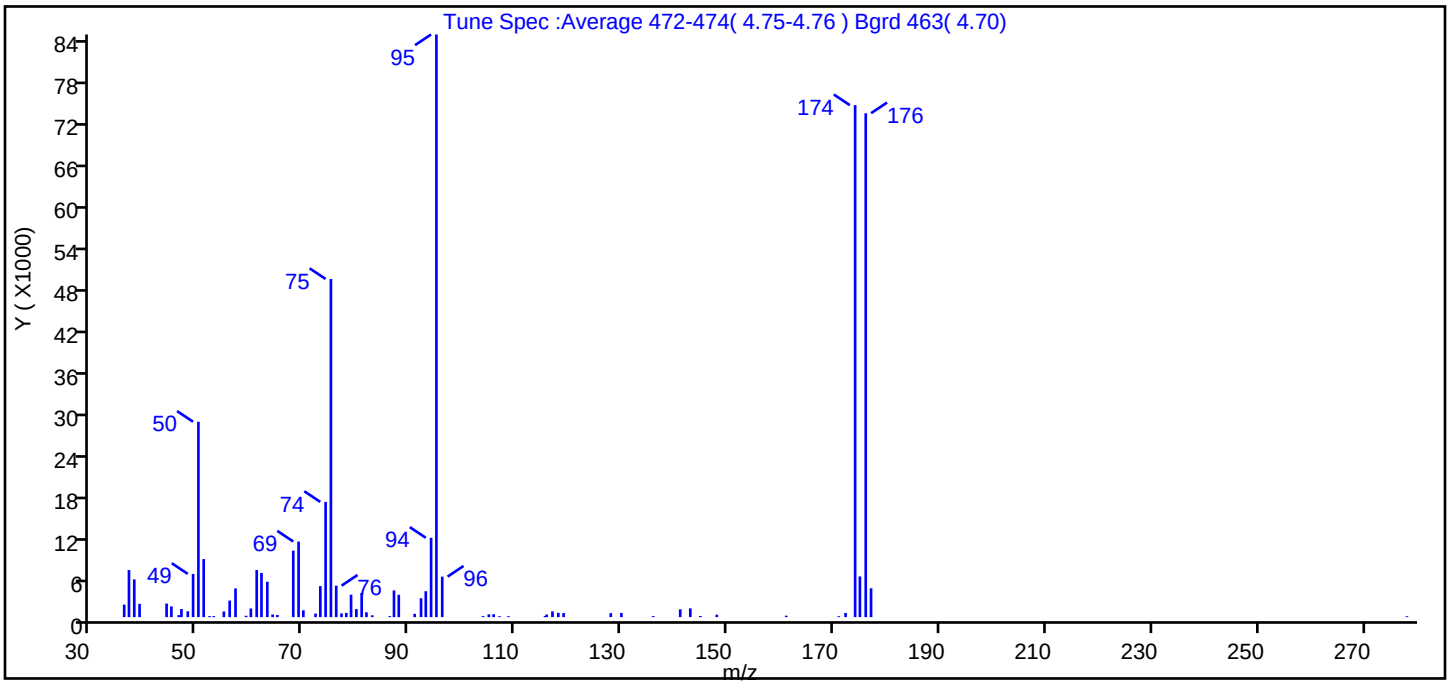
BFB_WRK_00135 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5154.D
Injection Date: 06-Jun-2022 16:59:30 Instrument ID: HP5973N
Lims ID: BFB
Client ID:
Operator ID: LH ALS Bottle#: 27 Worklist Smp#: 7
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	33.5
75	30 to 60% of m/z 95	58.0
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	87.9
175	5 to 9% of m/z 174	7.0 (8.0)
176	Greater than 95% but less than 101% of m/z 174	86.5 (98.4)
177	5 to 9% of m/z 176	5.0 (5.7)

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5154.D\N-8260.rslt\spectra.d
Injection Date: 06-Jun-2022 16:59:30
Spectrum: Tune Spec :Average 472-474(4.75-4.76) Bgrd 463(4.70)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 73

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1826	61.00	6868	83.00	266	119.00	596
37.00	6873	62.00	6445	86.00	145	128.00	580
38.00	5506	63.00	5159	87.00	3896	130.00	607
39.00	1938	64.00	389	88.00	3257	136.00	154
44.00	1984	65.00	314	91.00	479	141.00	1141
45.00	1559	68.00	9698	92.00	2751	143.00	1281
46.00	295	69.00	11025	93.00	3781	145.00	172
47.00	1186	70.00	1003	94.00	11570	148.00	356
48.00	856	72.00	523	95.00	84952	161.00	218
49.00	6308	73.00	4522	96.00	5906	171.00	133
50.00	28488	74.00	16800	104.00	151	172.00	602
51.00	8469	75.00	49304	105.00	405	174.00	74648
52.00	151	76.00	4590	106.00	431	175.00	5939
53.00	154	77.00	540	107.00	134	176.00	73472
55.00	831	78.00	617	109.00	138	177.00	4206
56.00	2415	79.00	3271	116.00	170	278.00	133
57.00	4192	80.00	1180	116.00	381		
59.00	202	81.00	3529	117.00	848		
60.00	1262	82.00	705	118.00	629		

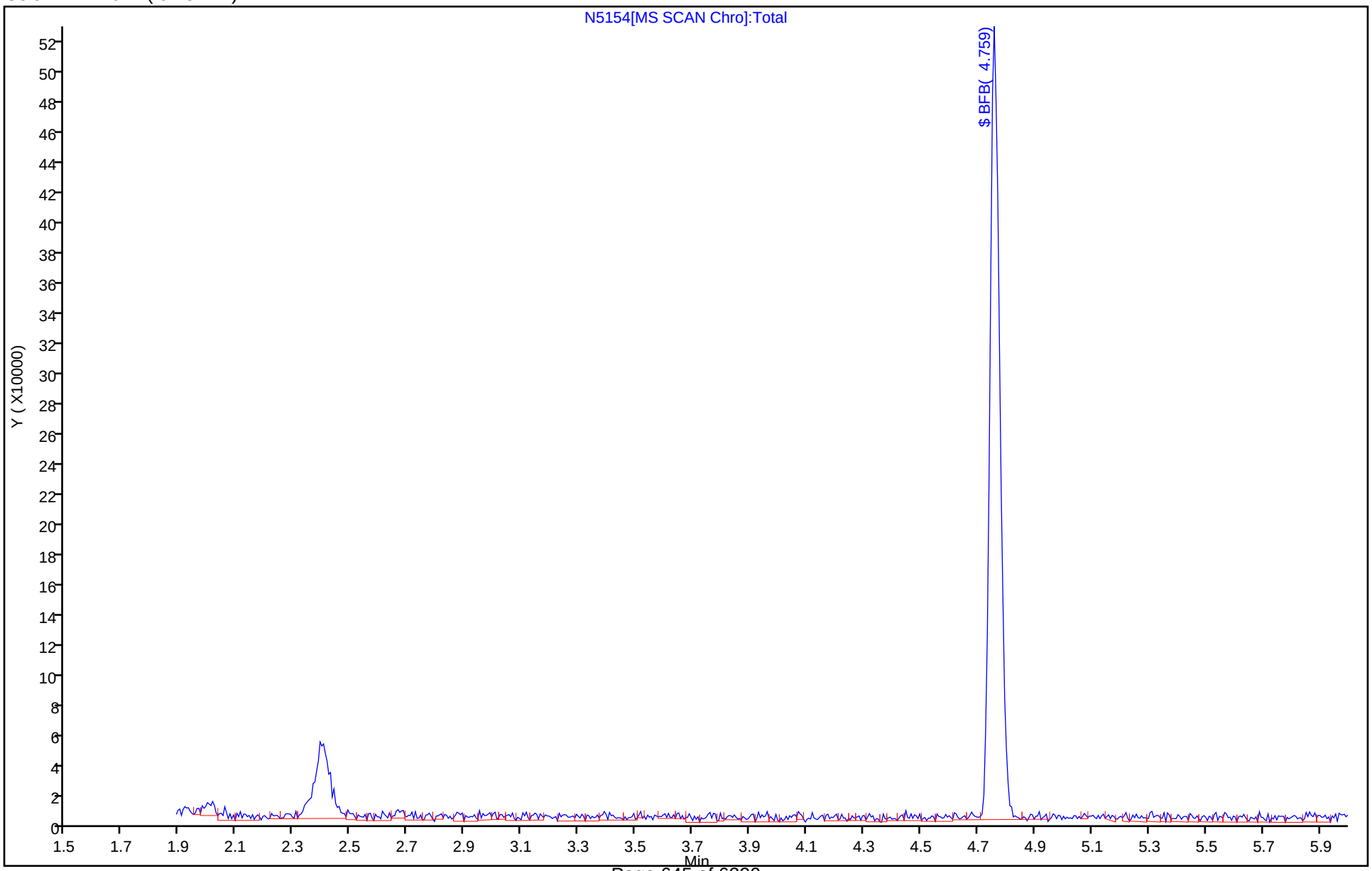
Report Date: 06-Jun-2022 17:11:57 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5154.D

Injection Date:	06-Jun-2022 16:59:30	Instrument ID:	HP5973N	Operator ID:	LH
Lims ID:	BFB			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5618.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 15-Jun-2022 18:40:30 ALS Bottle#: 22 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0106089-002
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 15-Jun-2022 23:42:48 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: lapointec Date: 15-Jun-2022 23:42:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 4 BFB	95	4.862	4.862	0.000	85	1631077	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

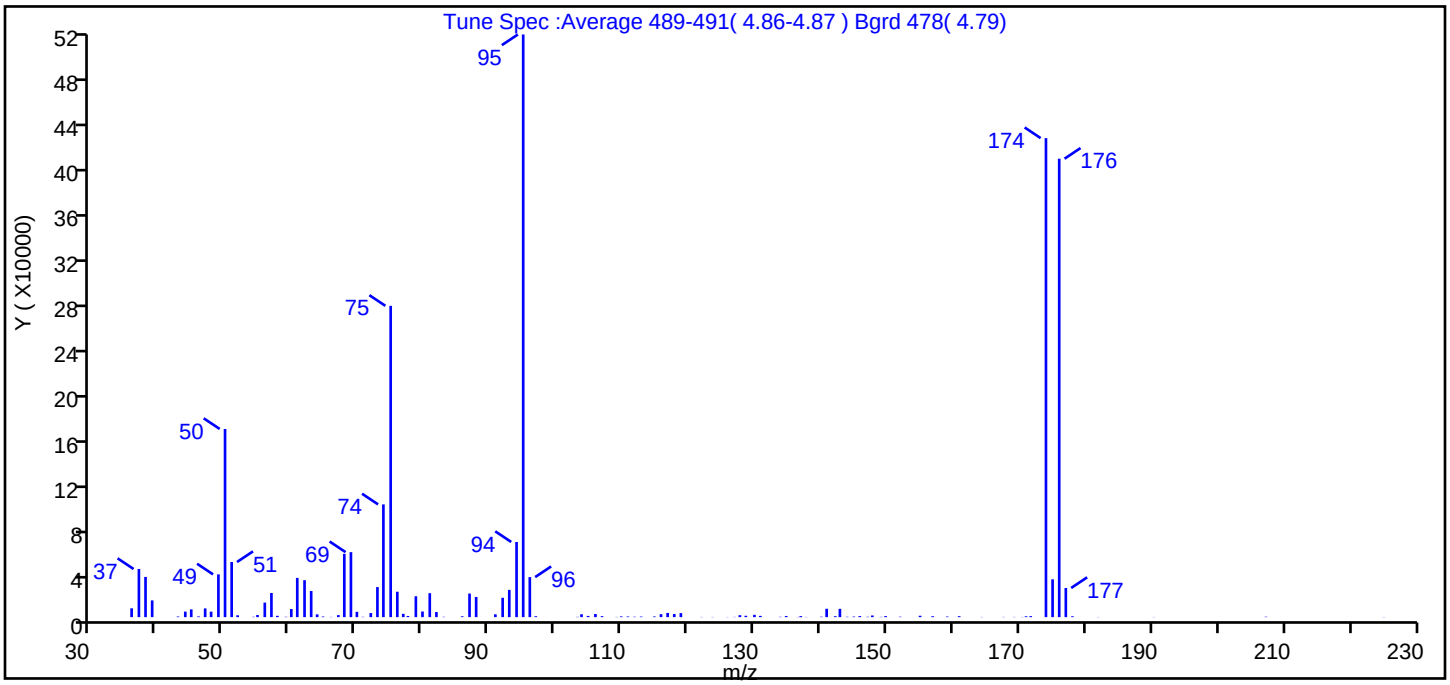
BFB_WRK_00135 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5618.D
Injection Date: 15-Jun-2022 18:40:30 Instrument ID: HP5973N
Lims ID: BFB
Client ID:
Operator ID: CR/AK ALS Bottle#: 22 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	32.3
75	30 to 60% of m/z 95	53.4
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	82.2
175	5 to 9% of m/z 174	6.5 (7.9)
176	Greater than 95% but less than 101% of m/z 174	78.7 (95.7)
177	5 to 9% of m/z 176	5.0 (6.4)

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5618.D\N-8260.rslt\spectra.d
Injection Date: 15-Jun-2022 18:40:30
Spectrum: Tune Spec :Average 489-491(4.86-4.87) Bgrd 478(4.79)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 113

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	7866	69.00	57952	107.00	876	145.00	506
37.00	42936	70.00	4754	109.00	193	146.00	938
38.00	35880	71.00	294	110.00	671	147.00	329
39.00	14934	72.00	3635	111.00	590	148.00	1478
43.00	562	73.00	26808	112.00	366	149.00	250
44.00	4933	74.00	100552	113.00	512	150.00	937
45.00	6929	75.00	277632	115.00	611	152.00	369
46.00	639	76.00	22656	116.00	2631	155.00	1248
47.00	7787	77.00	2970	117.00	3738	157.00	820
48.00	4913	78.00	1050	118.00	2792	159.00	540
49.00	38128	79.00	18624	119.00	3572	161.00	862
50.00	167808	80.00	5014	122.00	171	164.00	173
51.00	49152	81.00	21352	124.00	173	168.00	193
52.00	1658	82.00	4583	126.00	141	169.00	193
54.00	309	83.00	299	127.00	206	170.00	161
55.00	1914	86.00	737	128.00	1767	171.00	763
56.00	12977	87.00	21064	129.00	1239	172.00	902
57.00	21560	88.00	17992	130.00	2079	174.00	427200
58.00	1202	91.00	2527	131.00	1139	175.00	33736
59.00	331	92.00	17280	134.00	298	176.00	408832
60.00	7230	93.00	24304	135.00	1046	177.00	26008
61.00	35008	94.00	67024	137.00	190	178.00	765
62.00	32976	95.00	519616	137.00	940	182.00	145
63.00	23304	96.00	35720	138.00	174	190.00	150
64.00	2480	97.00	816	140.00	386	207.00	372
65.00	556	103.00	276	141.00	7472	225.00	139
66.00	197	104.00	2570	142.00	829		
67.00	1817	105.00	1087	143.00	7399		
68.00	56464	106.00	2767	144.00	356		

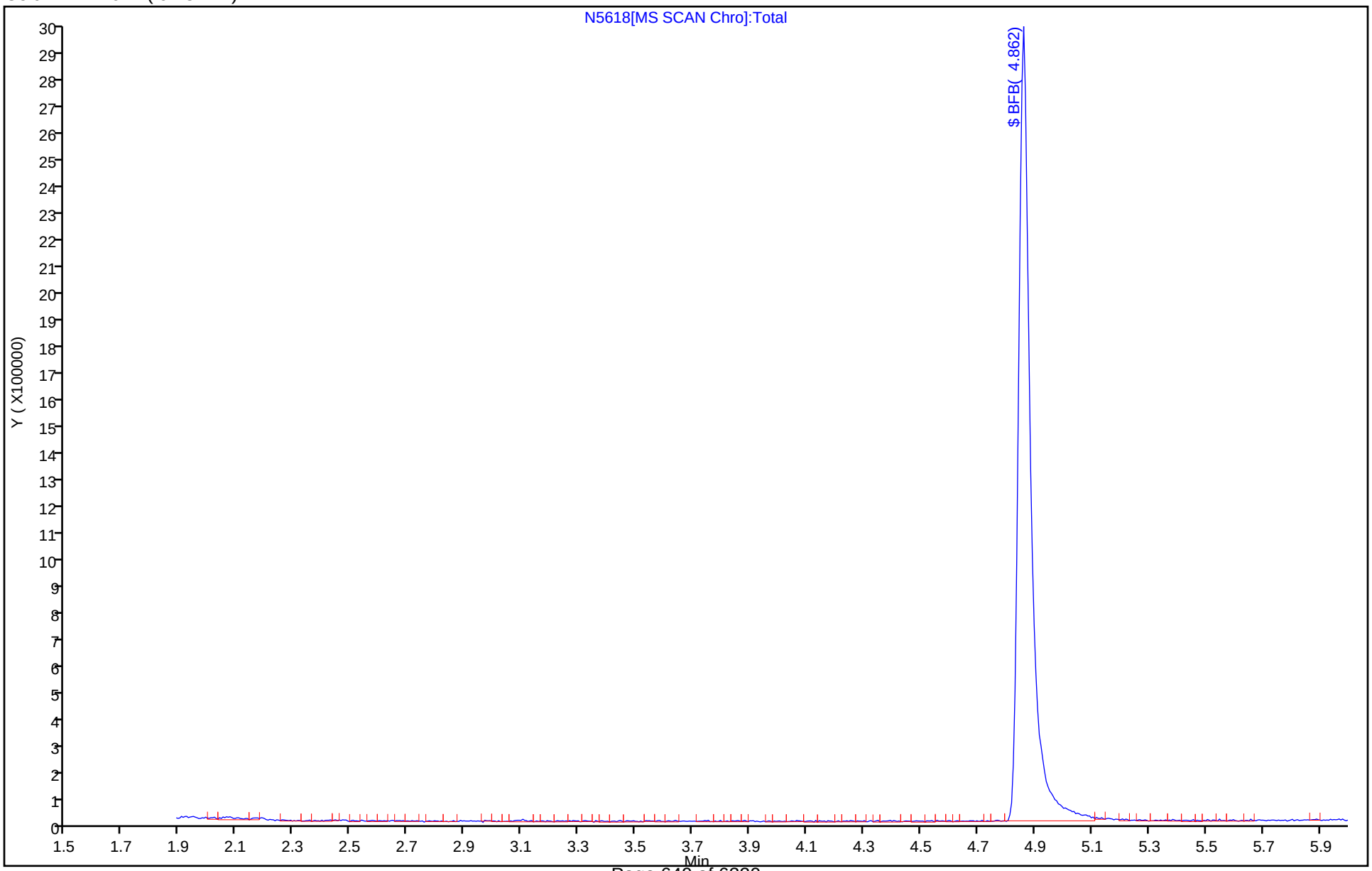
Report Date: 15-Jun-2022 23:42:48 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5618.D

Injection Date:	15-Jun-2022 18:40:30	Instrument ID:	HP5973N	Operator ID:	CR/AK
Lims ID:	BFB			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0719.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 09-Jun-2022 14:17:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0105984-008
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Jun-2022 12:37:33 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: HillL Date: 09-Jun-2022 14:24:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 61 BFB	95	4.007	4.007	0.000	0	122358	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

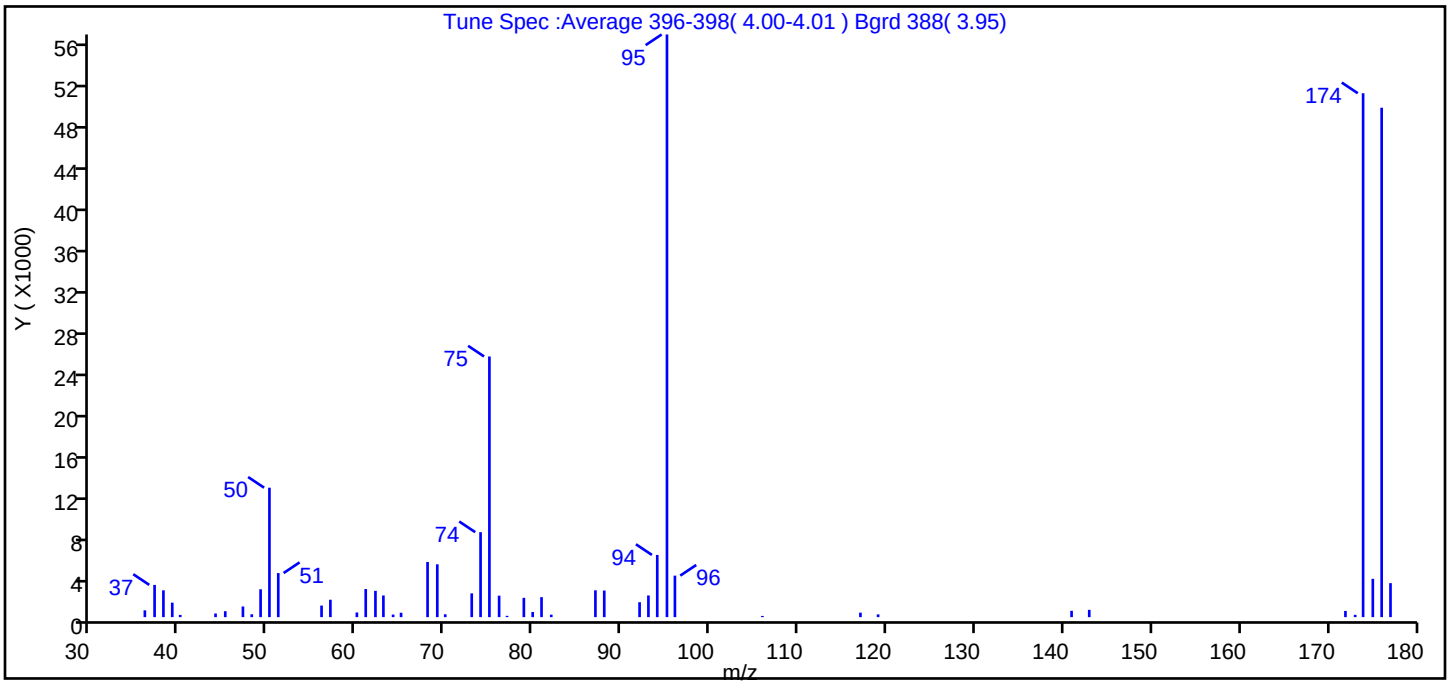
BFB_WRK_00134 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0719.D
Injection Date: 09-Jun-2022 14:17:30 Instrument ID: HP5975D
Lims ID: BFB
Client ID:
Operator ID: AK ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.2
75	30 to 60% of m/z 95	44.7
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.4 (0.4)
174	50 to 120% of m/z 95	89.9
175	5 to 9% of m/z 174	6.6 (7.3)
176	Greater than 95% but less than 101% of m/z 174	87.4 (97.2)
177	5 to 9% of m/z 176	5.8 (6.7)

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0719.D\D-8260.rslt\spectra.d
Injection Date: 09-Jun-2022 14:17:30
Spectrum: Tune Spec :Average 396-398(4.00-4.01) Bgrd 388(3.95)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 50

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	659	57.00	1683	76.00	2076	106.00	118
37.00	3118	60.00	451	77.00	128	117.00	434
38.00	2593	61.00	2717	79.00	1868	119.00	268
39.00	1402	62.00	2544	80.00	495	141.00	613
40.00	214	63.00	2096	81.00	1933	143.00	706
44.00	351	64.00	251	82.00	241	172.00	599
45.00	575	65.00	425	87.00	2594	173.00	223
47.00	1029	68.00	5334	88.00	2573	174.00	50648
48.00	277	69.00	5108	92.00	1443	175.00	3705
49.00	2695	70.00	276	93.00	2095	176.00	49248
50.00	12515	73.00	2299	94.00	6014	177.00	3288
51.00	4263	74.00	8215	95.00	56328		
56.00	1119	75.00	25200	96.00	4013		

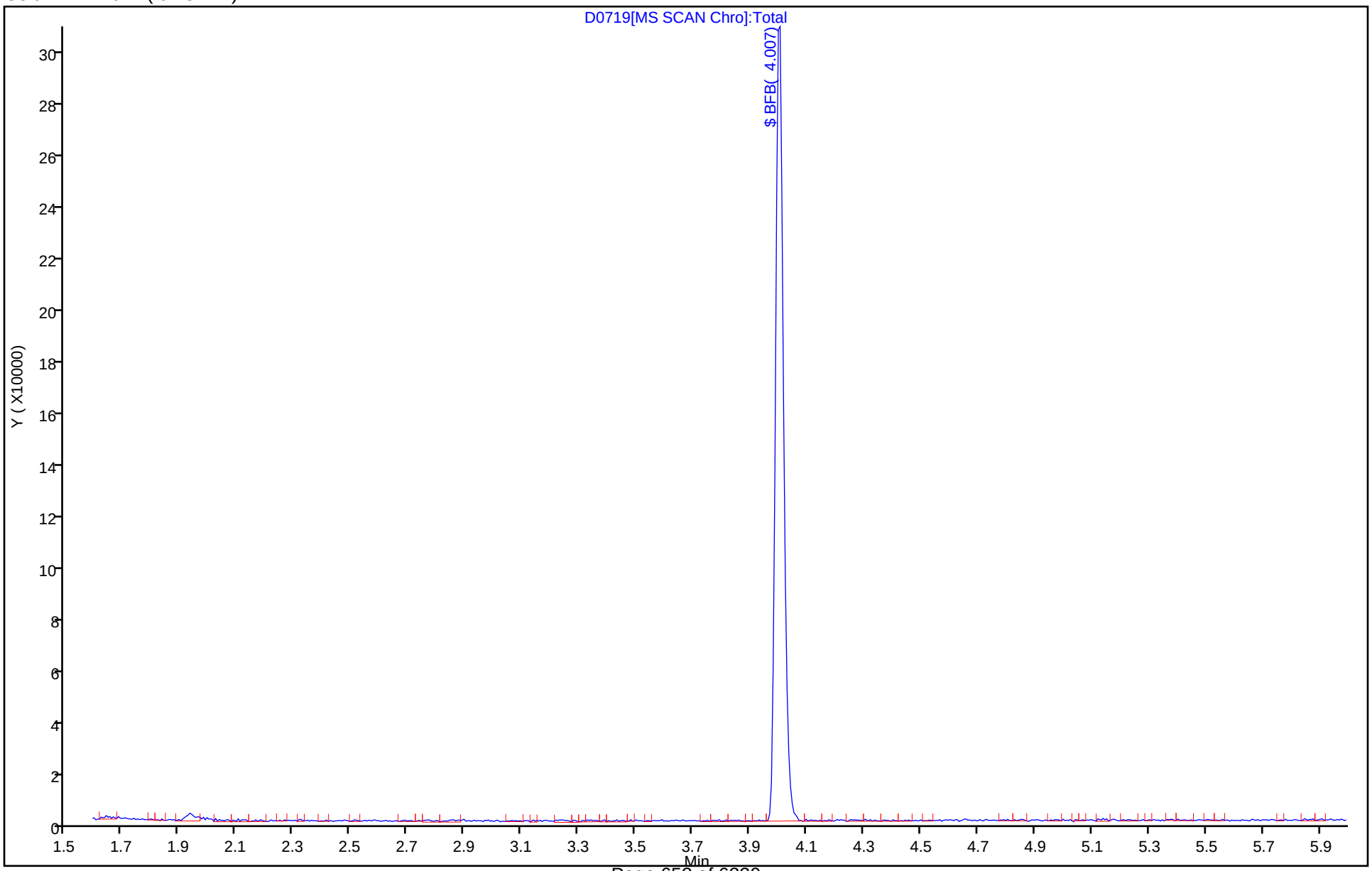
Report Date: 10-Jun-2022 12:37:34 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0719.D

Injection Date:	09-Jun-2022 14:17:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	BFB			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0809.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 11-Jun-2022 22:54:30 ALS Bottle#: 33 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0106025-003
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 12-Jun-2022 17:08:32 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: lapointec Date: 12-Jun-2022 17:08:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 61 BFB	95	4.056	4.056	0.000	0	590343	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

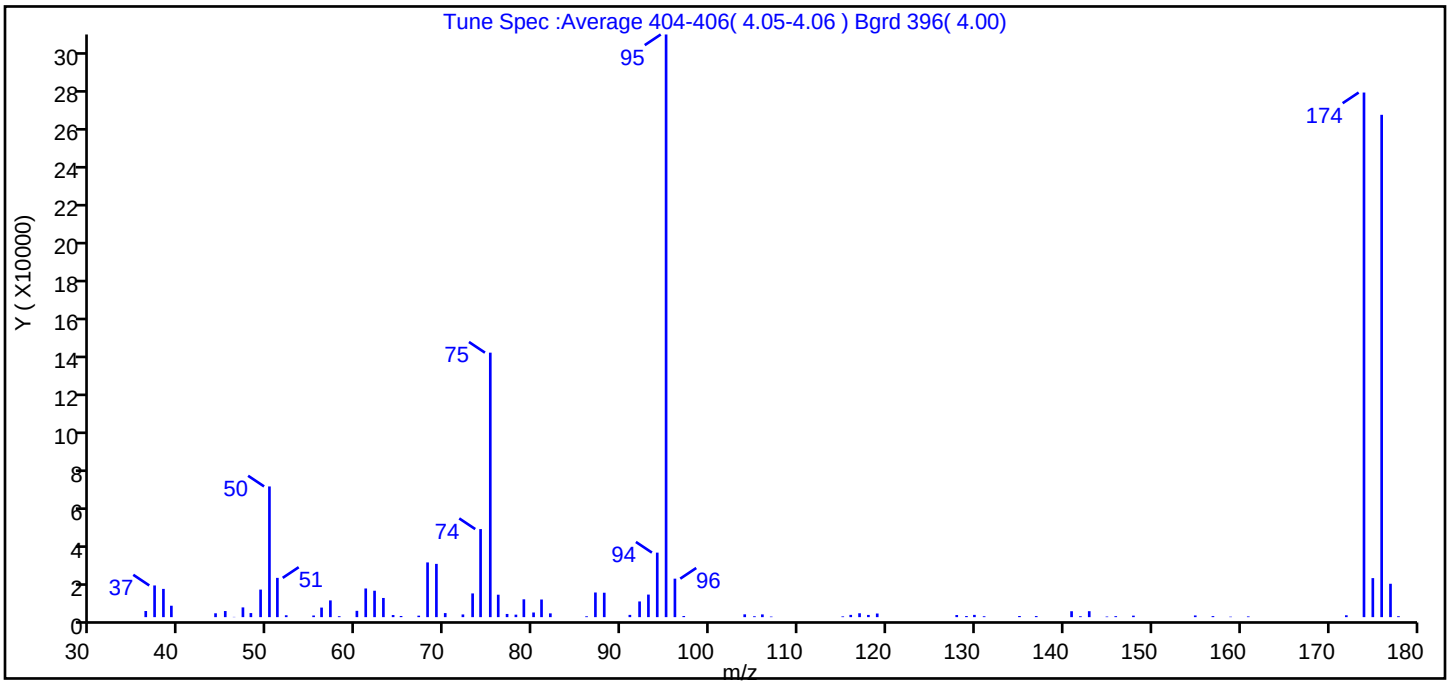
BFB_WRK_00134 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0809.D
Injection Date: 11-Jun-2022 22:54:30 Instrument ID: HP5975D
Lims ID: BFB
Client ID:
Operator ID: AK ALS Bottle#: 33 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.4
75	30 to 60% of m/z 95	45.4
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	90.0
175	5 to 9% of m/z 174	6.7 (7.4)
176	Greater than 95% but less than 101% of m/z 174	86.2 (95.8)
177	5 to 9% of m/z 176	5.7 (6.6)

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0809.D\D-8260.rslt\spectra.d
Injection Date: 11-Jun-2022 22:54:30
Spectrum: Tune Spec :Average 404-406(4.05-4.06) Bgrd 396(4.00)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 79

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3222	63.00	10086	88.00	12842	131.00	468
37.00	16664	64.00	1105	91.00	1191	135.00	601
38.00	14854	65.00	608	92.00	8254	137.00	573
39.00	6002	67.00	775	93.00	11862	141.00	3112
44.00	2027	68.00	28776	94.00	33928	142.00	457
45.00	3209	69.00	28008	95.00	306368	143.00	3134
46.00	123	70.00	2132	96.00	20232	145.00	322
47.00	5120	72.00	1422	97.00	581	146.00	522
48.00	2141	73.00	12470	104.00	1478	148.00	789
49.00	14491	74.00	46304	105.00	472	155.00	884
50.00	68728	75.00	139072	106.00	1446	157.00	545
51.00	20648	76.00	11796	107.00	291	159.00	243
52.00	984	77.00	1682	115.00	398	161.00	378
55.00	861	78.00	1312	116.00	1189	172.00	981
56.00	5032	79.00	9378	117.00	2041	174.00	275840
57.00	8801	80.00	2442	118.00	1166	175.00	20520
58.00	478	81.00	9277	119.00	1909	176.00	264128
60.00	3321	82.00	1988	128.00	1106	177.00	17552
61.00	15074	86.00	456	129.00	578	178.00	479
62.00	13890	87.00	12963	130.00	1191		

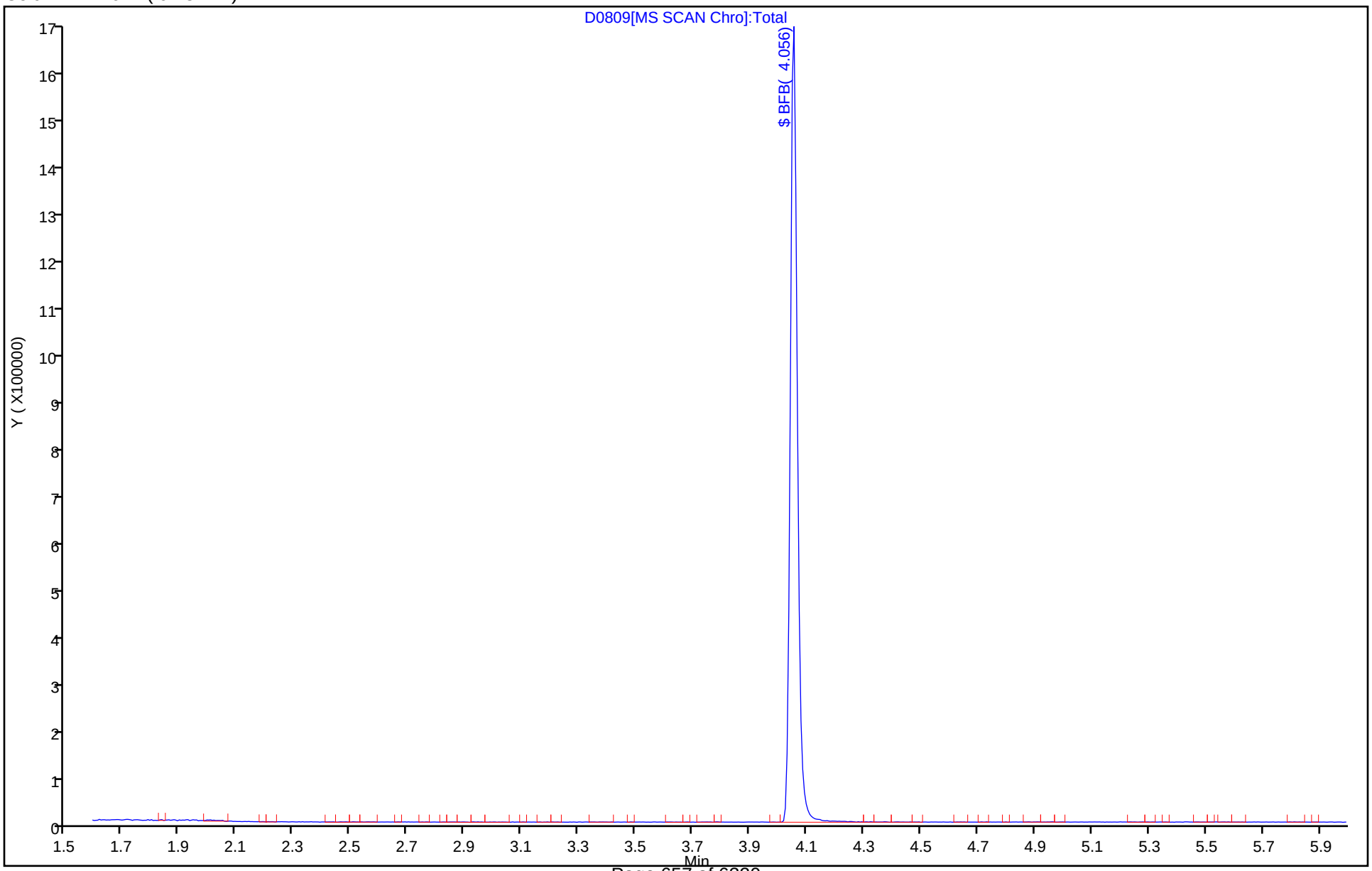
Report Date: 12-Jun-2022 17:08:33 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0809.D

Injection Date:	11-Jun-2022 22:54:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	BFB			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: | Lab Sample ID: MB 480-629695/9

Matrix: Water | Lab File ID: D0815.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2022 01:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: | Lab Sample ID: MB 480-629695/9

Matrix: Water | Lab File ID: D0815.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2022 01:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0815.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 12-Jun-2022 01:04:30 ALS Bottle#: 39 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0106025-009
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 12-Jun-2022 17:30:31 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: lapointec Date: 12-Jun-2022 17:20:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.895	4.895	0.000	98	156166	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.255	7.249	0.006	87	296026	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.163	9.163	0.000	96	335884	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.414	4.414	0.000	93	262359	25.0	24.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.670	4.670	0.000	100	144749	25.0	25.5	
$ 5 Toluene-d8 (Surr)	98	6.103	6.103	0.000	95	725399	25.0	24.5	
$ 6 4-Bromofluorobenzene (Surr)	174	8.206	8.206	0.000	92	232911	25.0	25.4	
10 Dichlorodifluoromethane	85		1.183					ND	
11 Chlorodifluoromethane	51		1.207					ND	
12 Chloromethane	50		1.353					ND	
13 Vinyl chloride	62		1.426					ND	
144 Butadiene	54		1.439					ND	
14 Bromomethane	94		1.719					ND	
15 Chloroethane	64		1.811					ND	
17 Trichlorofluoromethane	101		2.000					ND	
16 Dichlorofluoromethane	67		2.012					ND	
18 Ethyl ether	59		2.280					ND	
141 Ethanol	45		2.298					ND	
19 Propene oxide	58		2.365					ND	
20 Acrolein	56		2.451					ND	
21 112TCTFE	101		2.469					ND	
22 1,1-Dichloroethene	96		2.481					ND	
23 Acetone	43		2.597					ND	
25 Iodomethane	142		2.634					ND	
26 Carbon disulfide	76		2.664					ND	
24 Isopropyl alcohol	45		2.774					ND	
28 3-Chloro-1-propene	41		2.829					ND	
27 Methyl acetate	43		2.871					ND	
29 Acetonitrile	40		2.884					ND	
30 Methylene Chloride	84		2.963					ND	
31 2-Methyl-2-propanol	59		3.121					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73		3.152					ND	
34 trans-1,2-Dichloroethene	96		3.170					ND	
33 Acrylonitrile	53		3.213					ND	
35 Hexane	57		3.347					ND	
39 1,1-Dichloroethane	63		3.536					ND	
36 Isopropyl ether	45		3.554					ND	
132 Halothane	117		3.573					ND	
37 Vinyl acetate	43		3.585					ND	
40 2-Chloro-1,3-butadiene	53		3.591					ND	
38 1,1-Dimethoxyethane	75		3.621					ND	
41 Tert-butyl ethyl ether	59		3.847					ND	
44 2,2-Dichloropropane	77		3.987					ND	
45 cis-1,2-Dichloroethene	96		4.017					ND	
43 2-Butanone (MEK)	43		4.042					ND	
42 Ethyl acetate	43		4.072					ND	
46 Propionitrile	54		4.133					ND	
48 Chlorobromomethane	128		4.219					ND	
47 Methacrylonitrile	41		4.225					ND	
49 Tetrahydrofuran	42		4.231					ND	
50 Chloroform	83		4.280					ND	
51 1,1,1-Trichloroethane	97		4.377					ND	
52 Cyclohexane	56		4.389					ND	
55 Carbon tetrachloride	117		4.493					ND	
54 1,1-Dichloropropene	75		4.505					ND	
146 Isooctane	57		4.670					ND	
57 Benzene	78		4.676					ND	
53 Isobutyl alcohol	43		4.676					ND	
58 1,2-Dichloroethane	62		4.725					ND	
140 t-Amyl alcohol	59		4.731					ND	
56 Tert-amyl methyl ether	73		4.737					ND	
59 n-Heptane	43		4.822					ND	
1 1,4-Difluorobenzene	114		4.975					ND	
154 2,4,4-Trimethyl-1-pentene	55		5.078					ND	
62 Trichloroethene	95		5.170					ND	
60 n-Butanol	56		5.182					ND	
145 Ethyl acrylate	55		5.261					ND	
153 2,4,4-Trimethyl-2-pentene	97		5.267					ND	
64 Methylcyclohexane	83		5.273					ND	
65 1,2-Dichloropropane	63		5.365					ND	
63 Methyl methacrylate	41		5.432					ND	
66 1,4-Dioxane	88		5.474					ND	
67 Dibromomethane	93		5.474					ND	
68 Dichlorobromomethane	83		5.590					ND	
70 2-Nitropropane	43		5.786					ND	
69 2-Chloroethyl vinyl ether	63		5.804					ND	
71 Epichlorohydrin	57		5.883					ND	
72 cis-1,3-Dichloropropene	75		5.920					ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.029					ND	U
74 Toluene	92		6.151					ND	
76 2-Methylthiophene	97		6.261					ND	
77 trans-1,3-Dichloropropene	75		6.365					ND	
75 Ethyl methacrylate	69		6.389					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
78 3-Methylthiophene	97		6.389					ND	
79 1,1,2-Trichloroethane	83		6.511					ND	
81 Tetrachloroethene	166		6.572					ND	
82 1,3-Dichloropropane	76		6.639					ND	
80 2-Hexanone	43		6.675					ND	
155 n-Butyl acetate	43		6.755					ND	
83 Chlorodibromomethane	129		6.828					ND	
84 Ethylene Dibromide	107		6.913					ND	
139 1-Chlorohexane	55		7.224					ND	U
85 3-Chlorobenzotrifluoride	180		7.230					ND	
87 Chlorobenzene	112		7.273					ND	
86 4-Chlorobenzotrifluoride	180		7.279					ND	
88 Ethylbenzene	91		7.340					ND	
89 1,1,1,2-Tetrachloroethane	131		7.346					ND	
90 m-Xylene & p-Xylene	106		7.431					ND	
91 o-Xylene	106		7.761					ND	
92 Styrene	104		7.779					ND	
95 Bromoform	173		7.974					ND	
93 2-Chlorobenzotrifluoride	180		7.980					ND	
94 Isopropylbenzene	105		8.047					ND	
96 Cyclohexanone	55		8.188					ND	
101 Bromobenzene	156		8.334					ND	
97 1,1,2,2-Tetrachloroethane	83		8.358					ND	
99 N-Propylbenzene	91		8.382					ND	
100 1,2,3-Trichloropropane	110		8.389					ND	
98 trans-1,4-Dichloro-2-butene	53		8.395					ND	
103 2-Chlorotoluene	126		8.480					ND	
102 1,3,5-Trimethylbenzene	105		8.529					ND	
104 3-Chlorotoluene	126		8.529					ND	
105 4-Chlorotoluene	126		8.571					ND	
106 tert-Butylbenzene	134		8.797					ND	
107 1,2,4-Trimethylbenzene	105		8.840					ND	
108 Pentachloroethane	167		8.852					ND	
109 sec-Butylbenzene	105		8.974					ND	
110 4-Isopropyltoluene	119		9.096					ND	
111 1,3-Dichlorobenzene	146		9.108					ND	
114 Dicyclopentadiene	66		9.169					ND	
113 1,4-Dichlorobenzene	146		9.181					ND	
112 1,2,3-Trimethylbenzene	105		9.200					ND	
143 Benzyl chloride	91		9.303					ND	
115 n-Butylbenzene	91		9.443					ND	U
116 1,2-Dichlorobenzene	146		9.504					ND	
117 1,2-Dibromo-3-Chloropropane	75		10.181					ND	
118 1,3,5-Trichlorobenzene	180		10.309					ND	
119 1,2,4-Trichlorobenzene	180		10.845					ND	
120 Hexachlorobutadiene	225		10.949					ND	
121 Naphthalene	128		11.053					ND	
122 1,2,3-Trichlorobenzene	180		11.248					ND	
142 2-Methylnaphthalene	142	11.931	11.925	0.006	90	3232		0.1426	
149 Hexachloroethane	117		0.000					ND	
152 cis-1,4-Dichloro-2-butene	88		0.000					ND	
150 Nitrobenzene	77		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 125 1,2-Dichloroethene, Total	1		30.000					ND	7
S 126 1,3-Dichloropropene, Total	1		30.000					ND	7
S 124 Xylenes, Total	1		30.000					ND	7
S 123 Total BTEX	1		30.000					ND	7
S 157 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00040 Amount Added: 1.00 Units: uL Run Reagent

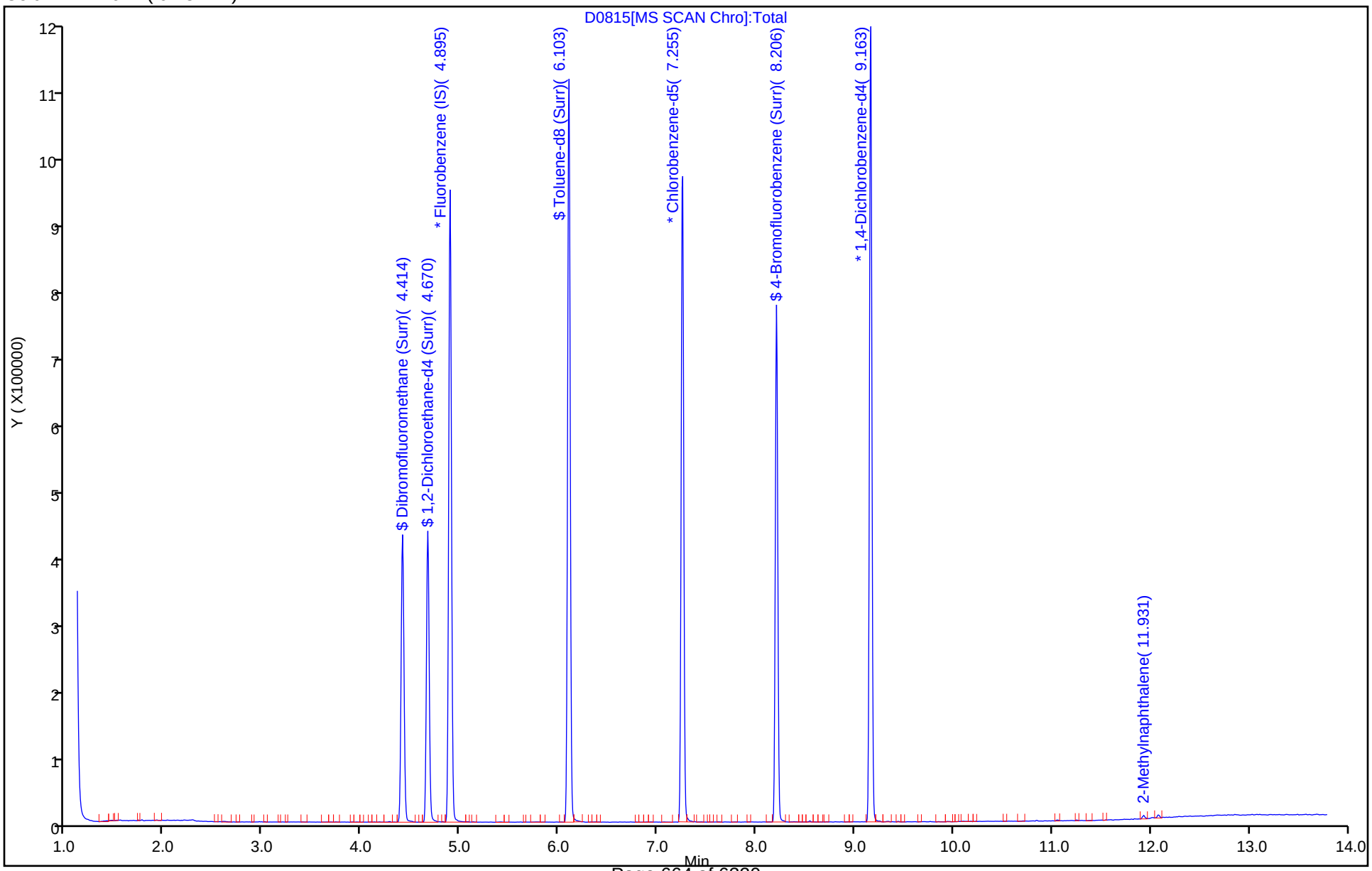
Report Date: 12-Jun-2022 17:31:27 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0815.D

Injection Date:	12-Jun-2022 01:04:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	MB			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	39
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0815.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 12-Jun-2022 01:04:30 ALS Bottle#: 39 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0106025-009
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 12-Jun-2022 17:30:31 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: lapointec Date: 12-Jun-2022 17:20:41

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.9	99.66
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	25.5	101.84
$ 5 Toluene-d8 (Surr)	25.0	24.5	97.89
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.4	101.59

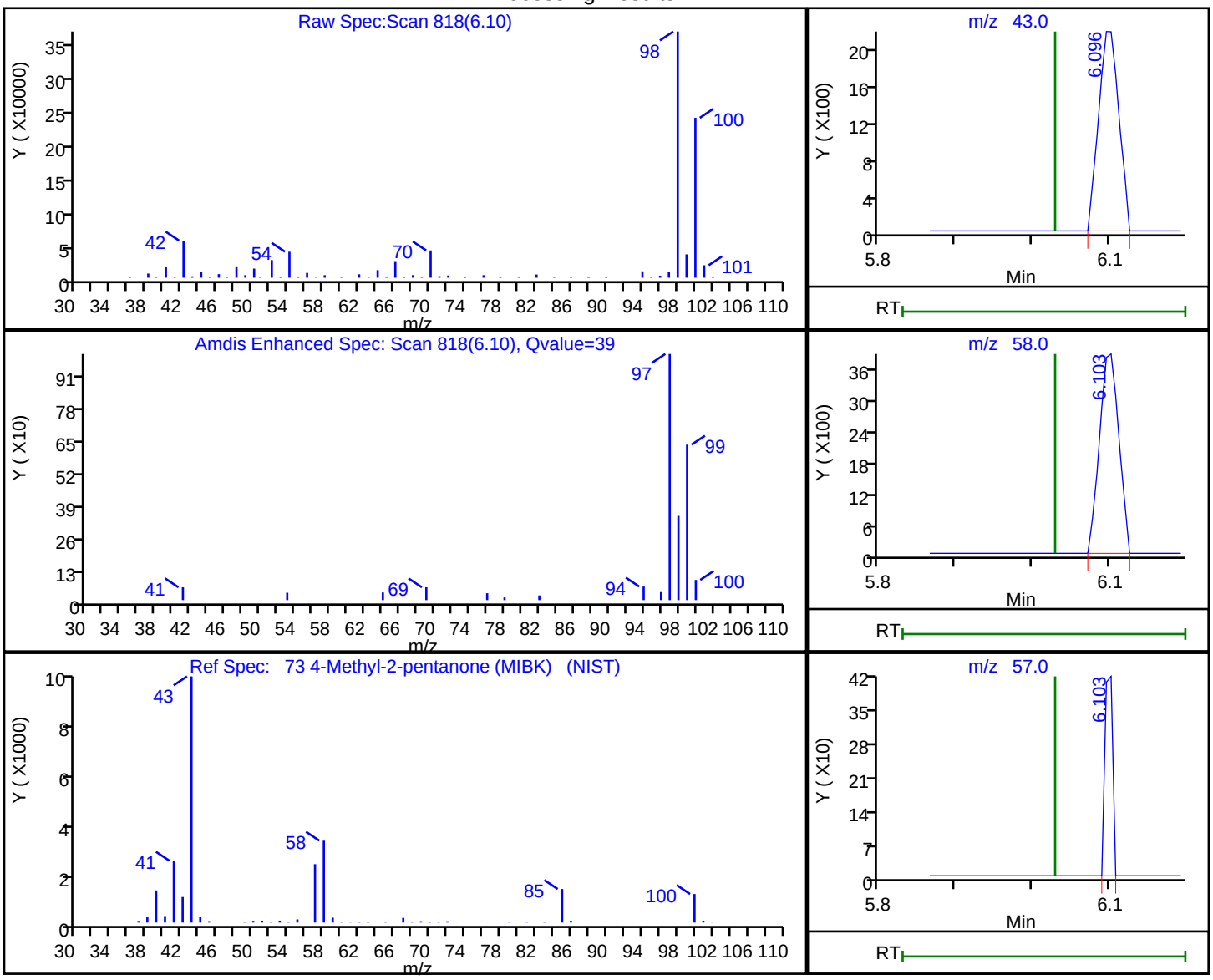
User Disabled Compound Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0815.D
Injection Date: 12-Jun-2022 01:04:30 Instrument ID: HP5975D
Lims ID: MB
Client ID:
Operator ID: AK ALS Bottle#: 39 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

73 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.10	43.00	3939	0.360983
6.10	58.00	6762	
6.10	57.00	300	

Reviewer: lapointec, 12-Jun-2022 17:19:57
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: | Lab Sample ID: MB 480-630178/8

Matrix: Water | Lab File ID: N5624.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/15/2022 20:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: | Lab Sample ID: MB 480-630178/8

Matrix: Water | Lab File ID: N5624.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/15/2022 20:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		77-120
2037-26-5	Toluene-d8 (Surr)	91		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5624.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 15-Jun-2022 20:59:30 ALS Bottle#: 28 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0106089-008
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 15-Jun-2022 23:49:09 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: lapointec Date: 15-Jun-2022 23:49:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.247	5.241	0.006	97	194980	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.222	8.222	0.000	92	700780	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.637	10.637	0.000	96	367020	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.669	4.669	0.000	92	211255	25.0	22.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.973	4.973	0.000	96	308156	25.0	22.4	
$ 6 Toluene-d8 (Surr)	98	6.743	6.743	0.000	95	805889	25.0	22.9	
$ 7 4-Bromofluorobenzene (Surr)	174	9.481	9.481	0.000	87	289787	25.0	25.2	
11 Dichlorodifluoromethane	85		1.207					ND	
12 Chlorodifluoromethane	51		1.232					ND	U
13 Chloromethane	50		1.372					ND	
14 Vinyl chloride	62		1.463					ND	
144 Butadiene	54		1.475					ND	
15 Bromomethane	94		1.761					ND	
16 Chloroethane	64		1.822					ND	
17 Dichlorofluoromethane	67		2.041					ND	
18 Trichlorofluoromethane	101		2.047					ND	
19 Ethyl ether	59		2.302					ND	
141 Ethanol	45		2.327					ND	
81 Propene oxide	58		2.388					ND	
20 Acrolein	56		2.479					ND	
22 1,1-Dichloroethene	96		2.509					ND	
21 112TCTFE	101		2.515					ND	
23 Acetone	43		2.631					ND	
24 Iodomethane	142		2.667					ND	
25 Carbon disulfide	76		2.698					ND	
26 Isopropyl alcohol	45		2.819					ND	U
27 3-Chloro-1-propene	41		2.874					ND	
28 Methyl acetate	43		2.923					ND	
29 Acetonitrile	40		2.941					ND	
30 Methylene Chloride	84		3.014					ND	
31 2-Methyl-2-propanol	59		3.191					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73		3.227					ND	
33 trans-1,2-Dichloroethene	96		3.239					ND	
34 Acrylonitrile	53		3.300					ND	
35 Hexane	57		3.434					ND	
36 1,1-Dichloroethane	63		3.653					ND	
37 Isopropyl ether	45		3.671					ND	
39 Vinyl acetate	43		3.708					ND	
38 2-Chloro-1,3-butadiene	53		3.714					ND	
40 1,1-Dimethoxyethane	75		3.744					ND	
41 Tert-butyl ethyl ether	59		4.006					ND	
42 2,2-Dichloropropane	77		4.164					ND	
43 cis-1,2-Dichloroethene	96		4.200					ND	
44 2-Butanone (MEK)	43		4.237					ND	
45 Ethyl acetate	43		4.273					ND	7
46 Propionitrile	54		4.340					ND	
47 Chlorobromomethane	128		4.432					ND	
48 Methacrylonitrile	67		4.450					ND	
49 Tetrahydrofuran	42		4.450					ND	
50 Chloroform	83		4.511					ND	
51 1,1,1-Trichloroethane	97		4.620					ND	
52 Cyclohexane	56		4.626					ND	
53 Carbon tetrachloride	117		4.760					ND	
54 1,1-Dichloropropene	75		4.772					ND	
146 Isooctane	57		4.973					ND	U
55 Benzene	78		4.973					ND	
56 Isobutyl alcohol	43		5.010					ND	U
57 1,2-Dichloroethane	62		5.040					ND	
58 Tert-amyl methyl ether	73		5.052					ND	
140 t-Amyl alcohol	59		5.064					ND	
59 n-Heptane	43		5.156					ND	
1 1,4-Difluorobenzene	114		5.356					ND	
60 Trichloroethene	95		5.581					ND	
61 n-Butanol	56		5.624					ND	U
62 Methylcyclohexane	83		5.697					ND	
145 Ethyl acrylate	55		5.709					ND	U
63 1,2-Dichloropropane	63		5.819					ND	
65 Methyl methacrylate	41		5.928					ND	
64 Dibromomethane	93		5.953					ND	
66 1,4-Dioxane	88		5.965					ND	
67 Dichlorobromomethane	83		6.111					ND	
68 2-Nitropropane	43		6.360					ND	
69 2-Chloroethyl vinyl ether	63		6.391					ND	
70 Epichlorohydrin	57		6.482					ND	
71 cis-1,3-Dichloropropene	75		6.524					ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.676					ND	U
73 Toluene	92		6.810					ND	
74 2-Methylthiophene	97		6.944					ND	
75 trans-1,3-Dichloropropene	75		7.096					ND	
76 3-Methylthiophene	97		7.108					ND	
77 Ethyl methacrylate	69		7.145					ND	
78 1,1,2-Trichloroethane	83		7.285					ND	7
79 Tetrachloroethene	166		7.340					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
80 1,3-Dichloropropane	76		7.443					ND	
82 2-Hexanone	43		7.510					ND	
149 n-Butyl acetate	43		7.625					ND	
83 Chlorodibromomethane	129		7.674					ND	
84 Ethylene Dibromide	107		7.778					ND	
139 1-Chlorohexane	55		8.209					ND	U
86 3-Chlorobenzotrifluoride	180		8.234					ND	
85 Chlorobenzene	112		8.252					ND	
87 4-Chlorobenzotrifluoride	180		8.295					ND	
88 Ethylbenzene	91		8.349					ND	
89 1,1,1,2-Tetrachloroethane	131		8.349					ND	
90 m-Xylene & p-Xylene	106		8.471					ND	
91 o-Xylene	106		8.897					ND	
92 Styrene	104		8.927					ND	
93 Bromoform	173		9.171					ND	
94 2-Chlorobenzotrifluoride	180		9.207					ND	
95 Isopropylbenzene	105		9.280					ND	
96 Cyclohexanone	55		9.457					ND	7
97 Bromobenzene	156		9.627					ND	
98 1,1,2,2-Tetrachloroethane	83		9.700					ND	
100 N-Propylbenzene	91		9.718					ND	
99 1,2,3-Trichloropropane	110		9.724					ND	
101 trans-1,4-Dichloro-2-butene	53		9.743					ND	
102 2-Chlorotoluene	126		9.822					ND	
103 3-Chlorotoluene	126		9.889					ND	
104 1,3,5-Trimethylbenzene	105		9.901					ND	
105 4-Chlorotoluene	91		9.931					ND	
106 tert-Butylbenzene	134		10.223					ND	
107 Pentachloroethane	167		10.278					ND	
108 1,2,4-Trimethylbenzene	105		10.278					ND	
109 sec-Butylbenzene	105		10.436					ND	
110 1,3-Dichlorobenzene	146		10.570					ND	
111 4-Isopropyltoluene	119		10.576					ND	
112 Dicyclopentadiene	66		10.631					ND	
113 1,4-Dichlorobenzene	146		10.661					ND	
114 1,2,3-Trimethylbenzene	105		10.692					ND	
143 Benzyl chloride	126		10.807					ND	
115 n-Butylbenzene	91		10.971					ND	
116 1,2-Dichlorobenzene	146		11.014					ND	
117 1,2-Dibromo-3-Chloropropane	75		11.750					ND	
118 1,3,5-Trichlorobenzene	180		11.884					ND	
119 1,2,4-Trichlorobenzene	180		12.425					ND	
120 Hexachlorobutadiene	225		12.541					ND	
121 Naphthalene	128		12.638					ND	
122 1,2,3-Trichlorobenzene	180		12.845					ND	
142 2-Methylnaphthalene	142		13.557					ND	U
138 1-Bromopropane	1		0.000					ND	
131 Aziridine TIC	1		0.000					ND	
133 Halothane	1		0.000					ND	
136 Ethylene oxide TIC	1		0.000					ND	
S 124 1,2-Dichloroethene, Total	1		30.000					ND	7
S 126 Xylenes, Total	1		30.000					ND	7

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 123 1,3-Dichloropropene, Total	1		30.000					ND	7
S 125 Total BTEX	1		30.000					ND	7
S 151 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

N_8260_Surr_00440	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00232	Amount Added:	1.00	Units: uL	Run Reagent

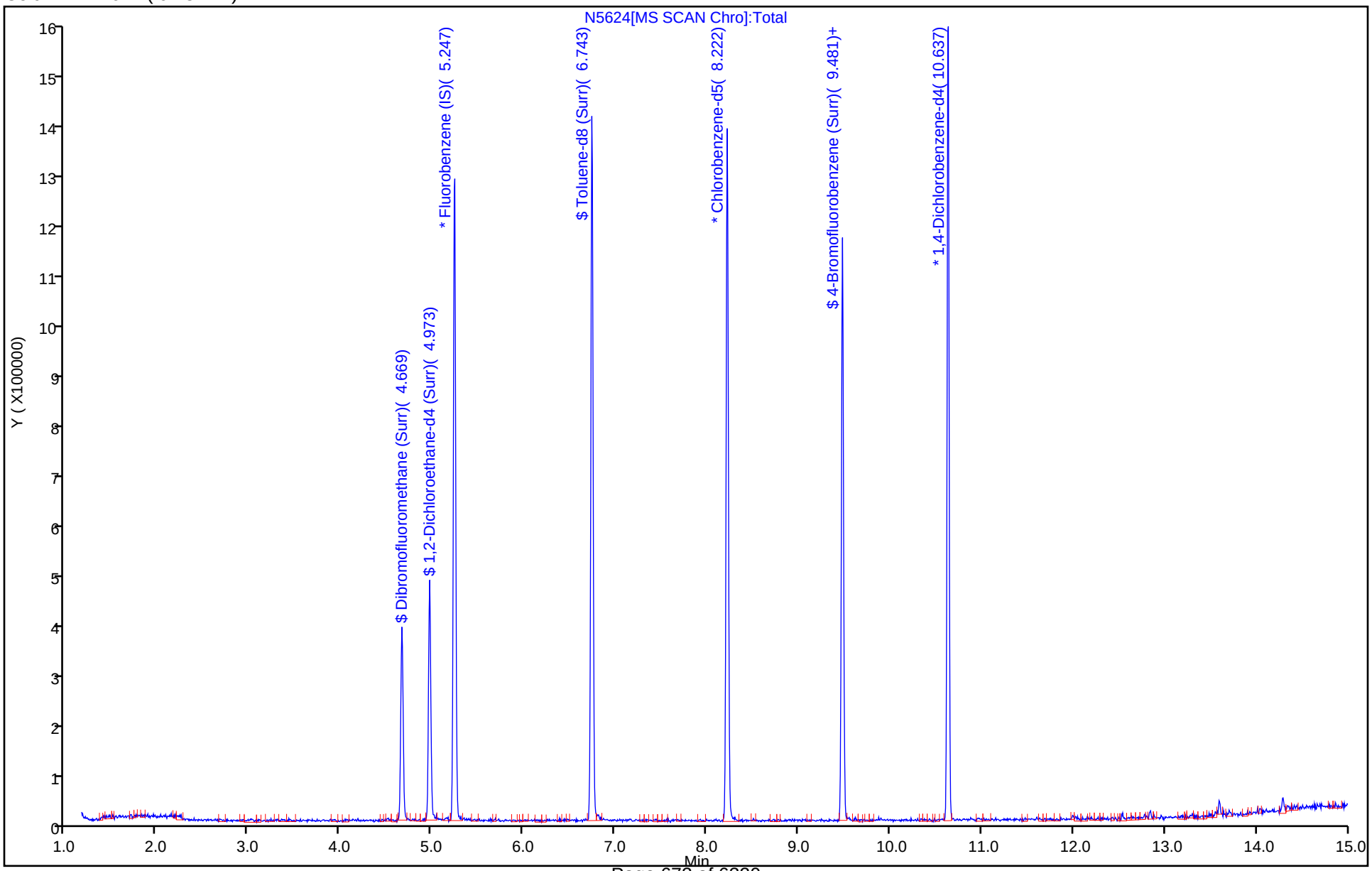
Report Date: 15-Jun-2022 23:49:10 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5624.D

Injection Date:	15-Jun-2022 20:59:30	Instrument ID:	HP5973N	Operator ID:	CR/AK
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5624.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 15-Jun-2022 20:59:30 ALS Bottle#: 28 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0106089-008
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 15-Jun-2022 23:49:09 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: lapointec Date: 15-Jun-2022 23:49:09

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	22.7	90.75
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	22.4	89.79
$ 6 Toluene-d8 (Surr)	25.0	22.9	91.47
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.2	100.95

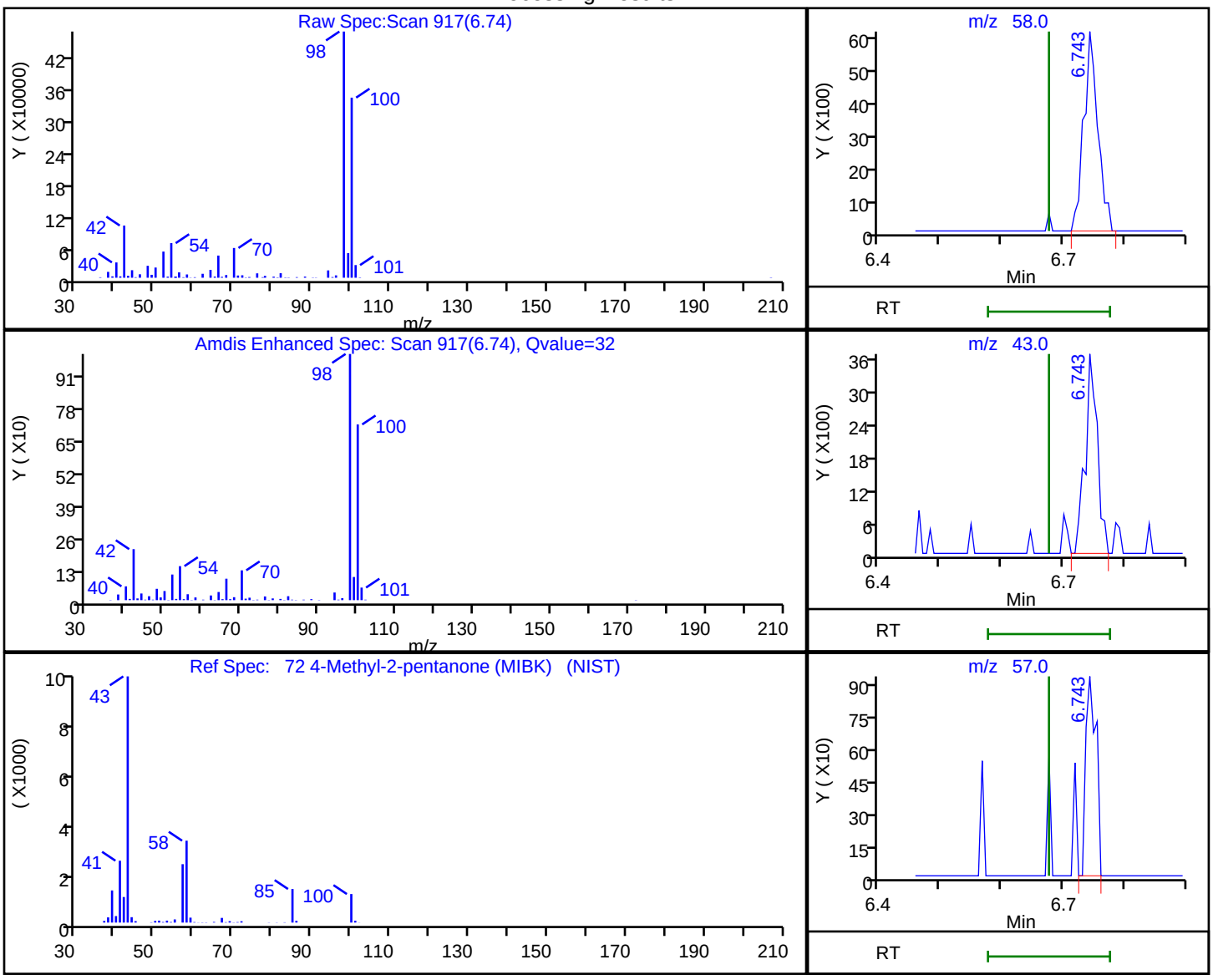
User Disabled Compound Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5624.D
Injection Date: 15-Jun-2022 20:59:30 Instrument ID: HP5973N
Lims ID: MB
Client ID:
Operator ID: CR/AK ALS Bottle#: 28 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.74	58.00	9863	1.365207
6.74	43.00	5059	
6.74	57.00	1105	

Reviewer: lapointec, 15-Jun-2022 23:48:30
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: | Lab Sample ID: LCS 480-629695/6

Matrix: Water | Lab File ID: D0812.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/11/2022 23:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	25.8		1.0	
71-55-6	1,1,1-Trichloroethane	25.9		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	26.4		1.0	
79-00-5	1,1,2-Trichloroethane	25.7		1.0	
75-34-3	1,1-Dichloroethane	27.3		1.0	
75-35-4	1,1-Dichloroethene	25.5		1.0	
96-18-4	1,2,3-Trichloropropane	26.7		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	27.5		1.0	
95-50-1	1,2-Dichlorobenzene	26.3		1.0	
107-06-2	1,2-Dichloroethane	24.9		1.0	
78-87-5	1,2-Dichloropropane	26.7		1.0	
106-46-7	1,4-Dichlorobenzene	25.6		1.0	
78-93-3	2-Butanone (MEK)	213		10	
591-78-6	2-Hexanone	110		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	118		5.0	
67-64-1	Acetone	114		10	
107-13-1	Acrylonitrile	244		5.0	
71-43-2	Benzene	26.7		1.0	
74-97-5	Chlorobromomethane	26.0		1.0	
75-27-4	Bromodichloromethane	27.1		1.0	
75-25-2	Bromoform	25.9		1.0	
74-83-9	Bromomethane	24.0		1.0	
75-15-0	Carbon disulfide	26.9		1.0	
56-23-5	Carbon tetrachloride	25.6		1.0	
108-90-7	Chlorobenzene	25.6		1.0	
124-48-1	Dibromochloromethane	26.1		1.0	
75-00-3	Chloroethane	24.7		1.0	
67-66-3	Chloroform	25.1		1.0	
74-87-3	Chloromethane	22.6		1.0	
156-59-2	cis-1,2-Dichloroethene	27.1		1.0	
10061-01-5	cis-1,3-Dichloropropene	29.2		1.0	
74-95-3	Dibromomethane	25.6		1.0	
100-41-4	Ethylbenzene	25.2		1.0	
106-93-4	1,2-Dibromoethane	26.3		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: | Lab Sample ID: LCS 480-629695/6

Matrix: Water | Lab File ID: D0812.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/11/2022 23:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	26.9		1.0	
75-09-2	Methylene Chloride	25.8		1.0	
100-42-5	Styrene	26.0		1.0	
127-18-4	Tetrachloroethene	26.8		1.0	
75-69-4	Trichlorofluoromethane	25.9		1.0	
79-01-6	Trichloroethene	27.8		1.0	
108-88-3	Toluene	26.5		1.0	
156-60-5	trans-1,2-Dichloroethene	27.6		1.0	
10061-02-6	trans-1,3-Dichloropropene	27.6		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	23.2		1.0	
108-05-4	Vinyl acetate	71.5		5.0	
75-01-4	Vinyl chloride	25.1		1.0	
1330-20-7	Xylenes, Total	49.3		2.0	
179601-23-1	m,p-Xylene	24.8		2.0	
95-47-6	o-Xylene	24.5		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		77-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0812.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 11-Jun-2022 23:59:30 ALS Bottle#: 36 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0106025-006
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 12-Jun-2022 17:30:31 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: lapointec Date: 12-Jun-2022 17:14:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.895	4.895	0.000	98	152961	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.249	7.249	0.000	88	304732	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.163	9.163	0.000	98	302501	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.414	4.414	0.000	94	249250	25.0	24.2	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.670	4.670	0.000	99	149379	25.0	26.8	
$ 5 Toluene-d8 (Surr)	98	6.103	6.103	0.000	94	748073	25.0	24.5	
$ 6 4-Bromofluorobenzene (Surr)	174	8.206	8.206	0.000	96	225882	25.0	23.9	
10 Dichlorodifluoromethane	85	1.177	1.183	-0.006	99	253981	25.0	24.8	
11 Chlorodifluoromethane	51	1.201	1.207	-0.006	97	342686	25.0	27.4	
12 Chloromethane	50	1.347	1.353	-0.006	99	286483	25.0	22.6	
13 Vinyl chloride	62	1.421	1.426	-0.005	98	215363	25.0	25.1	
144 Butadiene	54	1.439	1.439	0.000	94	185236	25.0	25.1	
14 Bromomethane	94	1.719	1.719	0.000	93	138376	25.0	24.0	
15 Chloroethane	64	1.811	1.811	0.000	96	98449	25.0	24.7	
17 Trichlorofluoromethane	101	2.000	2.000	0.000	99	285455	25.0	25.9	
16 Dichlorofluoromethane	67	2.012	2.012	0.000	98	296332	25.0	24.8	
18 Ethyl ether	59	2.286	2.280	0.006	97	162377	25.0	25.0	
141 Ethanol	45	2.286	2.298	-0.012	93	258230	1000.0	2777.3	
19 Propene oxide	58	2.365	2.365	0.000	97	259163	NC	NC	
20 Acrolein	56	2.451	2.451	0.000	99	182905	125.0	126.1	
21 112TCTFE	101	2.469	2.469	0.000	94	170495	25.0	23.4	
22 1,1-Dichloroethene	96	2.481	2.481	0.000	94	171241	25.0	25.5	
23 Acetone	43	2.597	2.597	0.000	99	424561	125.0	114.1	
25 Iodomethane	142	2.634	2.634	0.000	99	394199	25.0	26.9	
26 Carbon disulfide	76	2.664	2.664	0.000	100	609846	25.0	26.9	
24 Isopropyl alcohol	45	2.774	2.774	0.000	99	178913	250.0	325.3	
28 3-Chloro-1-propene	41	2.829	2.829	0.000	89	345471	25.0	23.0	
27 Methyl acetate	43	2.871	2.871	0.000	100	434597	50.0	50.1	
29 Acetonitrile	40	2.884	2.884	0.000	89	192545	250.0	236.2	Ma
30 Methylene Chloride	84	2.963	2.963	0.000	95	217443	25.0	25.8	
31 2-Methyl-2-propanol	59	3.121	3.121	0.000	98	303307	250.0	291.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73	3.152	3.152	0.000	99	546688	25.0	27.2	
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.000	93	206333	25.0	27.6	
33 Acrylonitrile	53	3.213	3.213	0.000	98	1047192	250.0	244.3	
35 Hexane	57	3.347	3.347	0.000	95	315933	25.0	24.5	
39 1,1-Dichloroethane	63	3.536	3.536	0.000	96	435769	25.0	27.3	
36 Isopropyl ether	45	3.554	3.554	0.000	87	878733	25.0	27.2	a
132 Halothane	117	3.573	3.573	0.000	91	162283	25.0	26.5	
37 Vinyl acetate	43	3.585	3.585	0.000	97	1489395	50.0	71.5	
40 2-Chloro-1,3-butadiene	53	3.591	3.591	0.000	93	405868	25.0	30.2	
38 1,1-Dimethoxyethane	75	3.615	3.621	-0.006	95	43348	125.0	98.4	
41 Tert-butyl ethyl ether	59	3.847	3.847	0.000	99	722793	25.0	27.3	
44 2,2-Dichloropropane	77	3.987	3.987	0.000	94	261592	25.0	26.3	
45 cis-1,2-Dichloroethene	96	4.018	4.017	0.001	85	233804	25.0	27.1	
43 2-Butanone (MEK)	43	4.048	4.042	0.006	99	1134003	125.0	213.3	Ma
42 Ethyl acetate	43	4.048	4.072	-0.024	99	1133680	50.0	117.2	M
46 Propionitrile	54	4.127	4.133	-0.006	100	406620	250.0	254.8	
48 Chlorobromomethane	128	4.219	4.219	0.000	93	134607	25.0	26.0	
47 Methacrylonitrile	41	4.225	4.225	0.000	97	1735709	250.0	261.8	
49 Tetrahydrofuran	42	4.231	4.231	0.000	95	219979	50.0	67.5	
50 Chloroform	83	4.280	4.280	0.000	95	393303	25.0	25.1	
51 1,1,1-Trichloroethane	97	4.377	4.377	0.000	98	330600	25.0	25.9	
52 Cyclohexane	56	4.389	4.389	0.000	94	417376	25.0	25.0	
55 Carbon tetrachloride	117	4.499	4.493	0.006	98	304762	25.0	25.6	
54 1,1-Dichloropropene	75	4.505	4.505	0.000	93	277073	25.0	25.6	
146 Isooctane	57	4.670	4.670	0.000	92	827771	25.0	27.8	
57 Benzene	78	4.676	4.676	0.000	97	762830	25.0	26.7	
53 Isobutyl alcohol	43	4.676	4.676	0.000	62	402014	625.0	824.6	
58 1,2-Dichloroethane	62	4.725	4.725	0.000	96	324988	25.0	24.9	
140 t-Amyl alcohol	59	4.725	4.731	-0.006	64	284571	250.0	289.3	
56 Tert-amyl methyl ether	73	4.731	4.737	-0.006	93	656027	25.0	27.9	
59 n-Heptane	43	4.816	4.822	-0.006	97	377635	25.0	25.4	
154 2,4,4-Trimethyl-1-pentene	55	5.078	5.078	0.000	99	173282	NC	NC	
62 Trichloroethene	95	5.170	5.170	0.000	96	218064	25.0	27.8	
60 n-Butanol	56	5.176	5.182	-0.006	91	172029	625.0	744.6	
145 Ethyl acrylate	55	5.267	5.261	0.006	97	1122286	25.0	43.4	
153 2,4,4-Trimethyl-2-pentene	97	5.267	5.267	0.000	89	412894	NC	NC	
64 Methylcyclohexane	83	5.273	5.273	0.000	80	327997	25.0	25.3	
65 1,2-Dichloropropane	63	5.365	5.365	0.000	95	225193	25.0	26.7	
63 Methyl methacrylate	41	5.432	5.432	0.000	93	399661	50.0	53.6	
66 1,4-Dioxane	88	5.475	5.474	0.001	40	29123	500.0	482.8	
67 Dibromomethane	93	5.475	5.474	0.001	95	149133	25.0	25.6	
68 Dichlorobromomethane	83	5.590	5.590	0.000	97	289980	25.0	27.1	
70 2-Nitropropane	43	5.792	5.786	0.006	98	203138	50.0	97.9	
69 2-Chloroethyl vinyl ether	63	5.804	5.804	0.000	90	107573	25.0	25.4	
71 Epichlorohydrin	57	5.883	5.883	0.000	99	240182	250.0	272.9	
72 cis-1,3-Dichloropropene	75	5.920	5.920	0.000	94	315997	25.0	29.2	
73 4-Methyl-2-pentanone (MIBK)	43	6.029	6.029	0.000	98	1323955	125.0	117.9	
74 Toluene	92	6.151	6.151	0.000	97	452971	25.0	26.5	
77 trans-1,3-Dichloropropene	75	6.365	6.365	0.000	97	275718	25.0	27.6	
75 Ethyl methacrylate	69	6.389	6.389	0.000	96	209286	25.0	26.0	
79 1,1,2-Trichloroethane	83	6.511	6.511	0.000	93	146960	25.0	25.7	
81 Tetrachloroethene	166	6.572	6.572	0.000	95	229751	25.0	26.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
82 1,3-Dichloropropane	76	6.639	6.639	0.000	96	264201	25.0	26.0	
80 2-Hexanone	43	6.676	6.675	0.001	99	859055	125.0	110.5	
155 n-Butyl acetate	43	6.755	6.755	0.000	98	389982	25.0	24.4	
83 Chlorodibromomethane	129	6.822	6.828	-0.006	91	227502	25.0	26.1	
84 Ethylene Dibromide	107	6.913	6.913	0.000	97	198944	25.0	26.3	
139 1-Chlorohexane	55	7.224	7.224	0.000	94	213086	25.0	29.7	
85 3-Chlorobenzotrifluoride	180	7.230	7.230	0.000	93	297130	25.0	30.6	
87 Chlorobenzene	112	7.273	7.273	0.000	94	522046	25.0	25.6	
86 4-Chlorobenzotrifluoride	180	7.279	7.279	0.000	95	287943	25.0	32.9	
88 Ethylbenzene	91	7.340	7.340	0.000	99	830658	25.0	25.2	
89 1,1,1,2-Tetrachloroethane	131	7.346	7.346	0.000	96	230086	25.0	25.8	
90 m-Xylene & p-Xylene	106	7.432	7.431	0.001	99	317599	25.0	24.8	
91 o-Xylene	106	7.755	7.761	-0.006	97	327726	25.0	24.5	
92 Styrene	104	7.779	7.779	0.000	95	523316	25.0	26.0	
95 Bromoform	173	7.974	7.974	0.000	95	140987	25.0	25.9	
93 2-Chlorobenzotrifluoride	180	7.980	7.980	0.000	98	324731	25.0	30.9	
94 Isopropylbenzene	105	8.047	8.047	0.000	96	897555	25.0	25.0	
96 Cyclohexanone	55	8.188	8.188	0.000	94	106142	250.0	284.8	
101 Bromobenzene	156	8.334	8.334	0.000	91	229687	25.0	27.3	
97 1,1,2,2-Tetrachloroethane	83	8.352	8.358	-0.006	95	255822	25.0	26.4	
99 N-Propylbenzene	91	8.383	8.382	0.001	99	996749	25.0	24.9	
100 1,2,3-Trichloropropane	110	8.389	8.389	0.000	86	64995	25.0	26.7	
98 trans-1,4-Dichloro-2-butene	53	8.389	8.395	-0.006	76	58049	25.0	23.2	
103 2-Chlorotoluene	126	8.480	8.480	0.000	97	219935	25.0	29.4	
102 1,3,5-Trimethylbenzene	105	8.529	8.529	0.000	95	766326	25.0	25.2	
104 3-Chlorotoluene	126	8.529	8.529	0.000	96	223226	25.0	29.9	
105 4-Chlorotoluene	126	8.572	8.571	0.001	97	231579	25.0	31.0	
106 tert-Butylbenzene	134	8.797	8.797	0.000	94	155515	25.0	24.8	
107 1,2,4-Trimethylbenzene	105	8.840	8.840	0.000	97	774091	25.0	25.2	
108 Pentachloroethane	167	8.852	8.852	0.000	94	154901	25.0	31.5	
109 sec-Butylbenzene	105	8.974	8.974	0.000	95	998877	25.0	25.1	
110 4-Isopropyltoluene	119	9.096	9.096	0.000	98	867179	25.0	25.3	
111 1,3-Dichlorobenzene	146	9.108	9.108	0.000	99	423737	25.0	26.6	
114 Dicyclopentadiene	66	9.169	9.169	0.000	97	1149852	25.0	31.6	
113 1,4-Dichlorobenzene	146	9.181	9.181	0.000	96	425895	25.0	25.6	
112 1,2,3-Trimethylbenzene	105	9.200	9.200	0.000	99	857225	25.0	27.6	
143 Benzyl chloride	91	9.303	9.303	0.000	99	380509	25.0	27.9	
115 n-Butylbenzene	91	9.437	9.443	-0.006	98	765810	25.0	24.9	
116 1,2-Dichlorobenzene	146	9.498	9.504	-0.006	98	447298	25.0	26.3	
117 1,2-Dibromo-3-Chloropropane	75	10.181	10.181	0.000	86	50626	25.0	27.5	
118 1,3,5-Trichlorobenzene	180	10.309	10.309	0.000	98	378385	25.0	28.3	
119 1,2,4-Trichlorobenzene	180	10.846	10.845	0.001	95	366448	25.0	28.9	
120 Hexachlorobutadiene	225	10.949	10.949	0.000	98	176293	25.0	29.8	
121 Naphthalene	128	11.053	11.053	0.000	97	1012704	25.0	30.1	
122 1,2,3-Trichlorobenzene	180	11.248	11.248	0.000	96	383764	25.0	29.0	
142 2-Methylnaphthalene	142	11.931	11.925	0.006	92	677470	25.0	33.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

8260 CORP mix_00224	Amount Added:	12.50	Units: uL	
GAS CORP mix_00513	Amount Added:	12.50	Units: uL	
ADD CORP mix_00125	Amount Added:	12.50	Units: uL	
3_MCP_Add_WRK_00359	Amount Added:	12.50	Units: uL	
D 8260 IS/SUR_00040	Amount Added:	1.00	Units: uL	Run Reagent

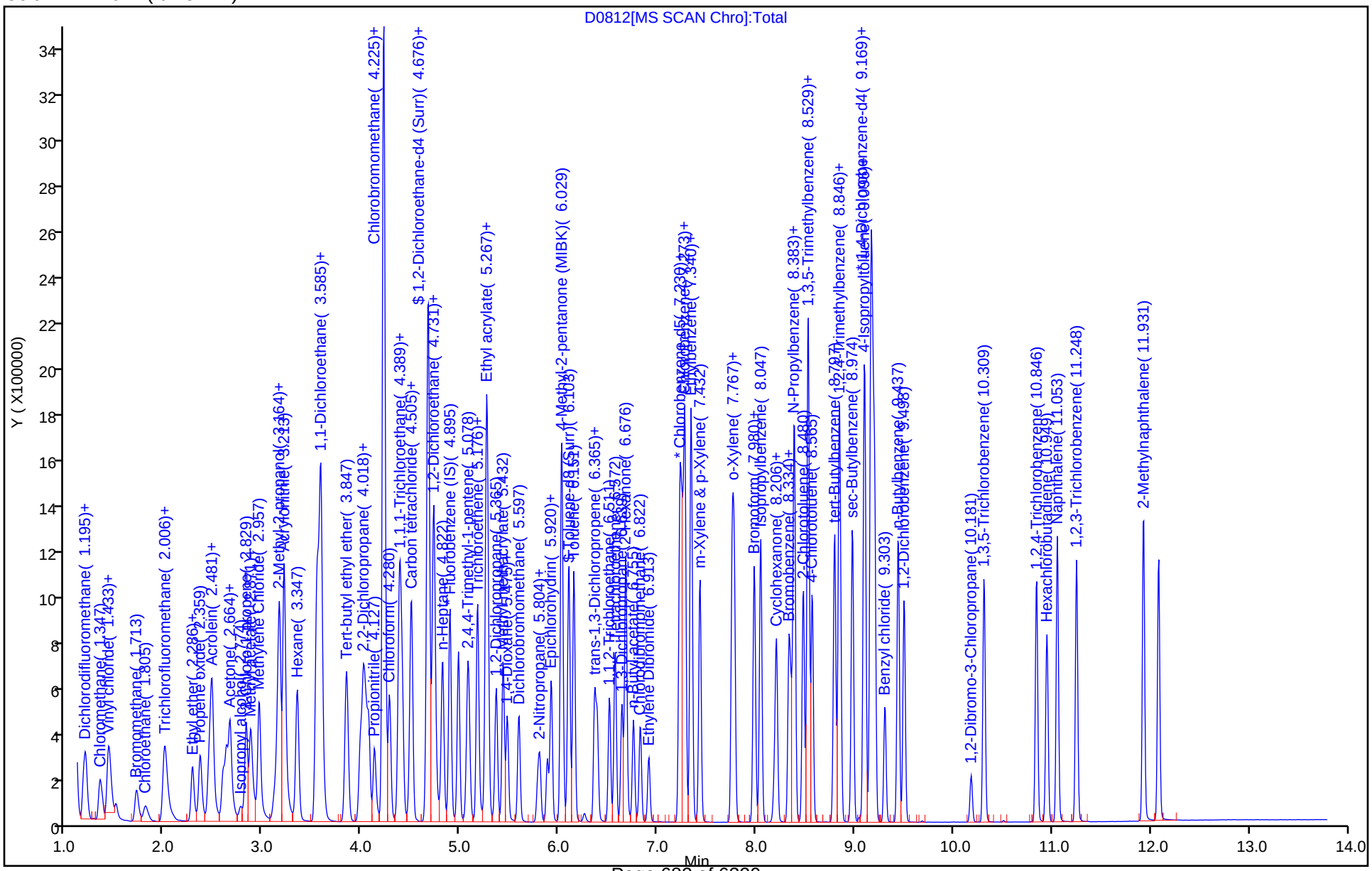
Report Date: 12-Jun-2022 17:30:47 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0812.D

Injection Date:	11-Jun-2022 23:59:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	LCS			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0812.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 11-Jun-2022 23:59:30 ALS Bottle#: 36 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0106025-006
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 12-Jun-2022 17:30:31 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: lapointec Date: 12-Jun-2022 17:14:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	24.2	96.67
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	26.8	107.30
$ 5 Toluene-d8 (Surr)	25.0	24.5	98.07
$ 6 4-Bromofluorobenzene (Surr)	25.0	23.9	95.71

Manual Integration/User Assign Peak Report

Eurofins Buffalo

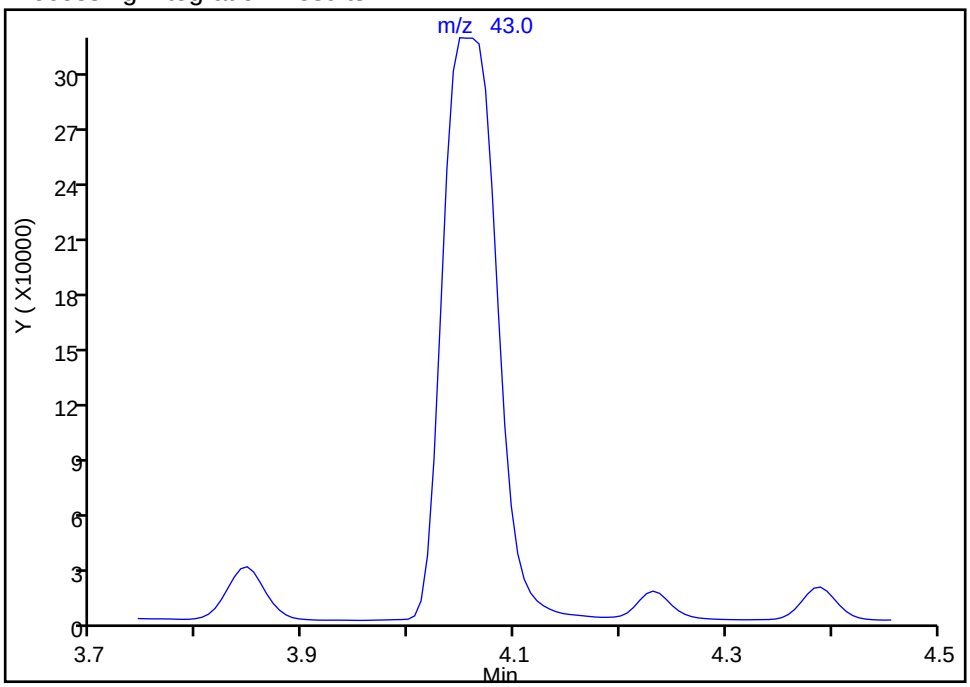
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0812.D
Injection Date: 11-Jun-2022 23:59:30 Instrument ID: HP5975D
Lims ID: LCS
Client ID:
Operator ID: AK ALS Bottle#: 36 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

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

Signal: 1

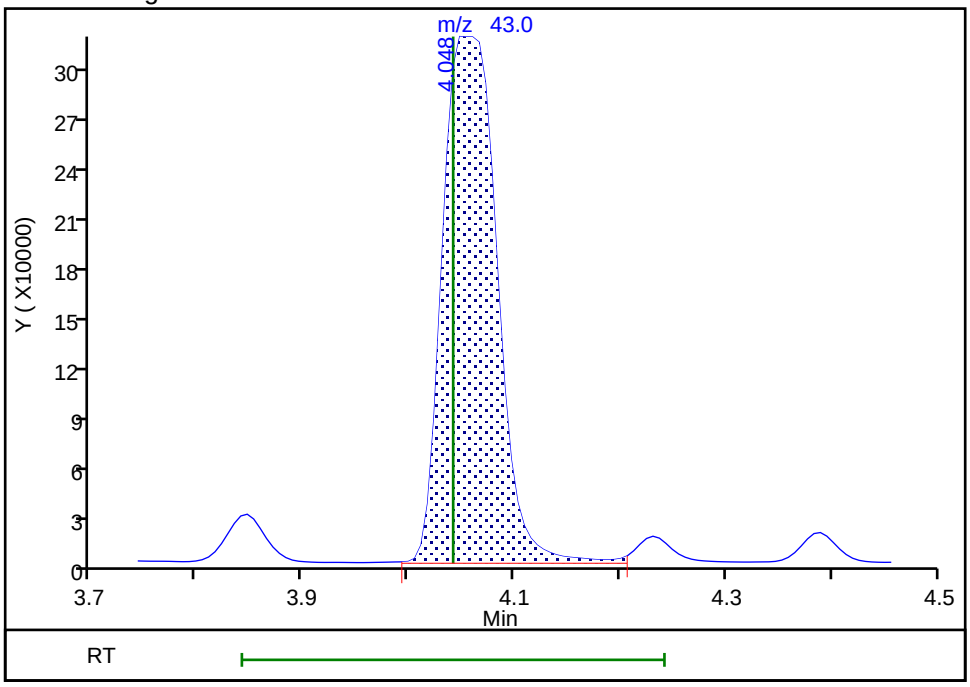
Not Detected
Expected RT: 4.04

Processing Integration Results



Manual Integration Results

RT: 4.05
Area: 1134003
Amount: 213.2995
Amount Units: ug/L



Reviewer: lapointec, 12-Jun-2022 17:12:25
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: | Lab Sample ID: LCS 480-630178/6

Matrix: Water | Lab File ID: N5622.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/15/2022 20:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	22.1		1.0	
71-55-6	1,1,1-Trichloroethane	23.3		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	23.0		1.0	
79-00-5	1,1,2-Trichloroethane	22.6		1.0	
75-34-3	1,1-Dichloroethane	22.9		1.0	
75-35-4	1,1-Dichloroethene	22.3		1.0	
96-18-4	1,2,3-Trichloropropane	21.7		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	21.5		1.0	
95-50-1	1,2-Dichlorobenzene	23.7		1.0	
107-06-2	1,2-Dichloroethane	23.0		1.0	
78-87-5	1,2-Dichloropropane	23.7		1.0	
106-46-7	1,4-Dichlorobenzene	23.0		1.0	
78-93-3	2-Butanone (MEK)	115		10	
591-78-6	2-Hexanone	116		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	113		5.0	
67-64-1	Acetone	127		10	
107-13-1	Acrylonitrile	226		5.0	
71-43-2	Benzene	23.3		1.0	
74-97-5	Chlorobromomethane	23.3		1.0	
75-27-4	Bromodichloromethane	23.6		1.0	
75-25-2	Bromoform	22.4		1.0	
74-83-9	Bromomethane	24.6		1.0	
75-15-0	Carbon disulfide	21.4		1.0	
56-23-5	Carbon tetrachloride	23.2		1.0	
108-90-7	Chlorobenzene	22.8		1.0	
124-48-1	Dibromochloromethane	22.4		1.0	
75-00-3	Chloroethane	23.5		1.0	
67-66-3	Chloroform	23.1		1.0	
74-87-3	Chloromethane	24.0		1.0	
156-59-2	cis-1,2-Dichloroethene	23.0		1.0	
10061-01-5	cis-1,3-Dichloropropene	23.8		1.0	
74-95-3	Dibromomethane	24.3		1.0	
100-41-4	Ethylbenzene	22.8		1.0	
106-93-4	1,2-Dibromoethane	23.3		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: | Lab Sample ID: LCS 480-630178/6

Matrix: Water | Lab File ID: N5622.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/15/2022 20:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	23.8		1.0	
75-09-2	Methylene Chloride	24.2		1.0	
100-42-5	Styrene	24.1		1.0	
127-18-4	Tetrachloroethene	22.6		1.0	
75-69-4	Trichlorofluoromethane	26.0		1.0	
79-01-6	Trichloroethene	23.1		1.0	
108-88-3	Toluene	22.5		1.0	
156-60-5	trans-1,2-Dichloroethene	23.3		1.0	
10061-02-6	trans-1,3-Dichloropropene	22.7		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	17.5		1.0	
108-05-4	Vinyl acetate	46.1		5.0	
75-01-4	Vinyl chloride	28.8		1.0	
1330-20-7	Xylenes, Total	46.6		2.0	
179601-23-1	m,p-Xylene	23.4		2.0	
95-47-6	o-Xylene	23.2		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		77-120
2037-26-5	Toluene-d8 (Surr)	93		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5622.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 15-Jun-2022 20:12:30 ALS Bottle#: 26 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0106089-006
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 15-Jun-2022 23:44:55 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: lapointec Date: 15-Jun-2022 23:44:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.241	5.241	0.000	97	195238	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.222	8.222	0.000	91	708170	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.637	10.637	0.000	96	367621	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.669	4.669	0.000	92	218278	25.0	23.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.973	4.973	0.000	73	316593	25.0	23.0	
$ 6 Toluene-d8 (Surr)	98	6.743	6.743	0.000	95	826217	25.0	23.2	
$ 7 4-Bromofluorobenzene (Surr)	174	9.481	9.481	0.000	89	296218	25.0	25.5	
11 Dichlorodifluoromethane	85	1.207	1.207	0.000	97	285959	25.0	27.2	
13 Chloromethane	50	1.371	1.372	-0.001	98	423562	25.0	24.0	
14 Vinyl chloride	62	1.457	1.463	-0.006	98	308021	25.0	28.8	
144 Butadiene	54	1.481	1.475	0.006	94	393289	25.0	27.4	
15 Bromomethane	94	1.761	1.761	0.000	92	168597	25.0	24.6	
16 Chloroethane	64	1.828	1.822	0.006	96	179090	25.0	23.5	
17 Dichlorofluoromethane	67	2.041	2.041	0.000	96	416058	25.0	24.1	
18 Trichlorofluoromethane	101	2.041	2.047	-0.006	96	392788	25.0	26.0	
19 Ethyl ether	59	2.302	2.302	0.000	98	281645	25.0	22.8	
20 Acrolein	56	2.479	2.479	0.000	99	294835	125.0	114.7	
22 1,1-Dichloroethene	96	2.515	2.509	0.006	89	184434	25.0	22.3	
21 112TCTFE	101	2.515	2.515	0.000	61	200082	25.0	22.7	
23 Acetone	43	2.631	2.631	0.000	98	837517	125.0	126.9	
24 Iodomethane	142	2.667	2.667	0.000	99	346066	25.0	23.8	
25 Carbon disulfide	76	2.698	2.698	0.000	98	592947	25.0	21.4	
27 3-Chloro-1-propene	41	2.874	2.874	0.000	84	515537	25.0	23.7	
28 Methyl acetate	43	2.923	2.923	0.000	100	670503	50.0	44.0	
30 Methylene Chloride	84	3.014	3.014	0.000	92	238594	25.0	24.2	
31 2-Methyl-2-propanol	59	3.190	3.191	-0.001	98	393449	250.0	208.2	
32 Methyl tert-butyl ether	73	3.227	3.227	0.000	97	827424	25.0	23.5	
33 trans-1,2-Dichloroethene	96	3.239	3.239	0.000	88	227346	25.0	23.3	
34 Acrylonitrile	53	3.294	3.300	-0.006	97	1703309	250.0	225.8	
35 Hexane	57	3.434	3.434	0.000	95	437086	25.0	21.9	
36 1,1-Dichloroethane	63	3.653	3.653	0.000	97	529985	25.0	22.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Vinyl acetate	43	3.708	3.708	0.000	97	1828912	50.0	46.1	
42 2,2-Dichloropropane	77	4.164	4.164	0.000	87	333006	25.0	24.3	
43 cis-1,2-Dichloroethene	96	4.200	4.200	0.000	86	255694	25.0	23.0	
44 2-Butanone (MEK)	43	4.237	4.237	0.000	97	1130083	125.0	114.7	
47 Chlorobromomethane	128	4.431	4.432	-0.001	88	135832	25.0	23.3	
49 Tetrahydrofuran	42	4.450	4.450	0.000	91	272135	50.0	44.1	
50 Chloroform	83	4.517	4.511	0.006	95	467631	25.0	23.1	
51 1,1,1-Trichloroethane	97	4.620	4.620	0.000	95	392771	25.0	23.3	
52 Cyclohexane	56	4.626	4.626	0.000	95	554345	25.0	23.2	
53 Carbon tetrachloride	117	4.754	4.760	-0.006	94	352900	25.0	23.2	
54 1,1-Dichloropropene	75	4.772	4.772	0.000	85	349814	25.0	23.3	
55 Benzene	78	4.973	4.973	0.000	93	1018267	25.0	23.3	
56 Isobutyl alcohol	43	5.009	5.010	-0.001	94	467647	625.0	551.7	
57 1,2-Dichloroethane	62	5.046	5.040	0.006	96	512718	25.0	23.0	
59 n-Heptane	43	5.155	5.156	-0.001	95	499011	25.0	21.4	
60 Trichloroethene	95	5.581	5.581	0.000	92	257034	25.0	23.1	
62 Methylcyclohexane	83	5.697	5.697	0.000	96	404071	25.0	22.9	
63 1,2-Dichloropropane	63	5.825	5.819	0.006	87	293762	25.0	23.7	
64 Dibromomethane	93	5.958	5.953	0.005	96	175685	25.0	24.3	
66 1,4-Dioxane	88	5.965	5.965	0.000	34	37326	500.0	433.3	M
67 Dichlorobromomethane	83	6.111	6.111	0.000	96	352063	25.0	23.6	
69 2-Chloroethyl vinyl ether	63	6.396	6.391	0.005	90	203062	25.0	23.1	
71 cis-1,3-Dichloropropene	75	6.524	6.524	0.000	85	418513	25.0	23.8	
72 4-Methyl-2-pentanone (MIBK)	58	6.676	6.676	0.000	99	823898	125.0	112.9	
73 Toluene	92	6.810	6.810	0.000	97	642659	25.0	22.5	
75 trans-1,3-Dichloropropene	75	7.096	7.096	0.000	94	403877	25.0	22.7	
77 Ethyl methacrylate	69	7.145	7.145	0.000	91	366893	25.0	24.3	
78 1,1,2-Trichloroethane	83	7.285	7.285	0.000	94	198857	25.0	22.6	
79 Tetrachloroethene	166	7.339	7.340	-0.001	93	268405	25.0	22.6	
80 1,3-Dichloropropane	76	7.443	7.443	0.000	91	418769	25.0	23.1	
82 2-Hexanone	43	7.516	7.510	0.006	99	1700992	125.0	115.7	
83 Chlorodibromomethane	129	7.674	7.674	0.000	89	243281	25.0	22.4	
84 Ethylene Dibromide	107	7.777	7.778	-0.001	98	255793	25.0	23.3	
85 Chlorobenzene	112	8.252	8.252	0.000	90	704989	25.0	22.8	
88 Ethylbenzene	91	8.343	8.349	-0.006	98	1210940	25.0	22.8	
89 1,1,1,2-Tetrachloroethane	131	8.355	8.349	0.006	92	259909	25.0	22.1	
90 m-Xylene & p-Xylene	106	8.471	8.471	0.000	98	487904	25.0	23.4	
91 o-Xylene	106	8.897	8.897	0.000	97	469806	25.0	23.2	
92 Styrene	104	8.927	8.927	0.000	94	802460	25.0	24.1	
93 Bromoform	173	9.171	9.171	0.000	94	153829	25.0	22.4	
95 Isopropylbenzene	105	9.280	9.280	0.000	97	1265478	25.0	23.0	
97 Bromobenzene	156	9.627	9.627	0.000	94	293862	25.0	22.1	
98 1,1,2,2-Tetrachloroethane	83	9.700	9.700	0.000	94	331444	25.0	23.0	
100 N-Propylbenzene	91	9.718	9.718	0.000	99	1438906	25.0	23.2	
99 1,2,3-Trichloropropane	110	9.724	9.724	0.000	93	102537	25.0	21.7	
101 trans-1,4-Dichloro-2-butene	53	9.742	9.743	-0.001	84	112797	25.0	17.5	
102 2-Chlorotoluene	126	9.822	9.822	0.000	95	278208	25.0	23.1	
104 1,3,5-Trimethylbenzene	105	9.901	9.901	0.000	94	1046352	25.0	23.2	
105 4-Chlorotoluene	91	9.937	9.931	0.006	99	1012937	25.0	24.8	
106 tert-Butylbenzene	134	10.223	10.223	0.000	95	215917	25.0	23.0	
108 1,2,4-Trimethylbenzene	105	10.278	10.278	0.000	98	1079052	25.0	23.6	
109 sec-Butylbenzene	105	10.436	10.436	0.000	95	1309135	25.0	23.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 1,3-Dichlorobenzene	146	10.564	10.570	-0.006	95	572085	25.0	23.0	
111 4-Isopropyltoluene	119	10.576	10.576	0.000	97	1121846	25.0	23.3	
113 1,4-Dichlorobenzene	146	10.655	10.661	-0.006	89	584380	25.0	23.0	
115 n-Butylbenzene	91	10.965	10.971	-0.006	99	973568	25.0	22.7	
116 1,2-Dichlorobenzene	146	11.014	11.014	0.000	95	580252	25.0	23.7	
117 1,2-Dibromo-3-Chloropropane	75	11.750	11.750	0.000	77	64753	25.0	21.5	
119 1,2,4-Trichlorobenzene	180	12.425	12.425	0.000	94	382097	25.0	23.8	
120 Hexachlorobutadiene	225	12.541	12.541	0.000	95	184344	25.0	23.6	
121 Naphthalene	128	12.638	12.638	0.000	98	1066553	25.0	24.0	
122 1,2,3-Trichlorobenzene	180	12.839	12.845	-0.006	94	359253	25.0	23.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00225	Amount Added:	12.50	Units: uL	
GAS CORP mix_00514	Amount Added:	12.50	Units: uL	
N_8260_Surr_00440	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00232	Amount Added:	1.00	Units: uL	Run Reagent

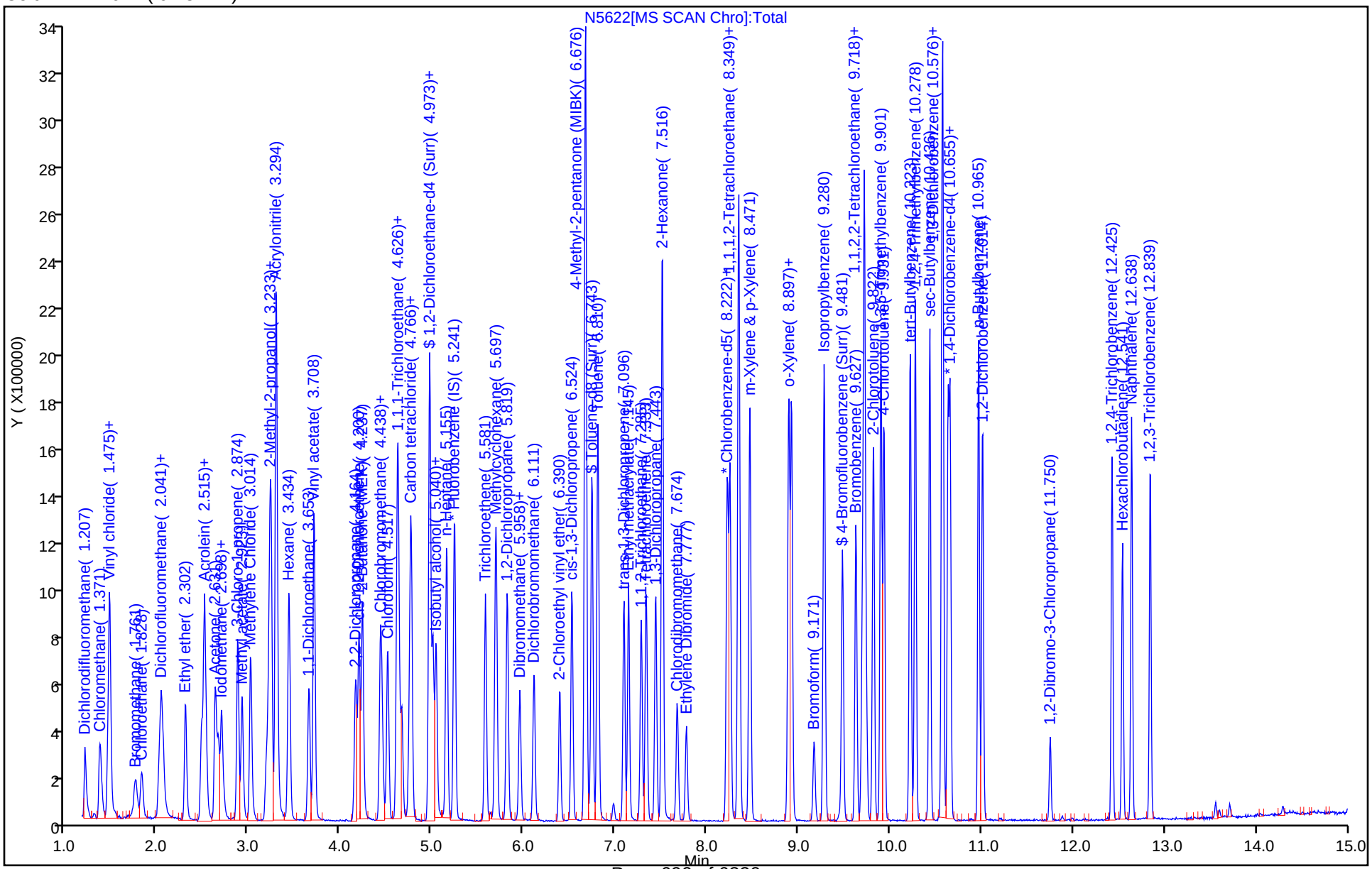
Report Date: 15-Jun-2022 23:44:56 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5622.D

Injection Date:	15-Jun-2022 20:12:30	Instrument ID:	HP5973N	Operator ID:	CR/AK
Lims ID:	LCS			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N5622.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 15-Jun-2022 20:12:30 ALS Bottle#: 26 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0106089-006
Operator ID: CR/AK Instrument ID: HP5973N

Method: \\chromfs\Buffalo\ChromData\HP5973N\20220615-106089.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 15-Jun-2022 23:44:55 Calib Date: 07-Jun-2022 00:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973N\20220606-105916.b\N5174.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: lapointec Date: 15-Jun-2022 23:44:55

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.4	93.64
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	23.0	92.13
$ 6 Toluene-d8 (Surr)	25.0	23.2	92.80
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.5	102.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: | Lab Sample ID: LCSD 480-629695/7

Matrix: Water | Lab File ID: D0813.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2022 00:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	24.5		1.0	
71-55-6	1,1,1-Trichloroethane	23.9		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	26.5		1.0	
79-00-5	1,1,2-Trichloroethane	25.6		1.0	
75-34-3	1,1-Dichloroethane	25.5		1.0	
75-35-4	1,1-Dichloroethene	23.6		1.0	
96-18-4	1,2,3-Trichloropropane	26.7		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	27.6		1.0	
95-50-1	1,2-Dichlorobenzene	25.4		1.0	
107-06-2	1,2-Dichloroethane	24.2		1.0	
78-87-5	1,2-Dichloropropane	25.9		1.0	
106-46-7	1,4-Dichlorobenzene	25.1		1.0	
78-93-3	2-Butanone (MEK)	213		10	
591-78-6	2-Hexanone	110		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	115		5.0	
67-64-1	Acetone	107		10	
107-13-1	Acrylonitrile	234		5.0	
71-43-2	Benzene	25.3		1.0	
74-97-5	Chlorobromomethane	24.6		1.0	
75-27-4	Bromodichloromethane	26.0		1.0	
75-25-2	Bromoform	25.4		1.0	
74-83-9	Bromomethane	21.4		1.0	
75-15-0	Carbon disulfide	24.6		1.0	
56-23-5	Carbon tetrachloride	23.9		1.0	
108-90-7	Chlorobenzene	25.0		1.0	
124-48-1	Dibromochloromethane	25.8		1.0	
75-00-3	Chloroethane	22.3		1.0	
67-66-3	Chloroform	23.5		1.0	
74-87-3	Chloromethane	19.5		1.0	
156-59-2	cis-1,2-Dichloroethene	25.4		1.0	
10061-01-5	cis-1,3-Dichloropropene	28.7		1.0	
74-95-3	Dibromomethane	25.3		1.0	
100-41-4	Ethylbenzene	23.5		1.0	
106-93-4	1,2-Dibromoethane	26.2		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: | Lab Sample ID: LCSD 480-629695/7

Matrix: Water | Lab File ID: D0813.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2022 00:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	25.2		1.0	
75-09-2	Methylene Chloride	24.5		1.0	
100-42-5	Styrene	25.1		1.0	
127-18-4	Tetrachloroethene	25.9		1.0	
75-69-4	Trichlorofluoromethane	23.7		1.0	
79-01-6	Trichloroethene	26.5		1.0	
108-88-3	Toluene	25.6		1.0	
156-60-5	trans-1,2-Dichloroethene	25.9		1.0	
10061-02-6	trans-1,3-Dichloropropene	27.2		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	23.8		1.0	
108-05-4	Vinyl acetate	69.1		5.0	
75-01-4	Vinyl chloride	22.5		1.0	
1330-20-7	Xylenes, Total	47.5		2.0	
179601-23-1	m,p-Xylene	23.7		2.0	
95-47-6	o-Xylene	23.8		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0813.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 12-Jun-2022 00:21:30 ALS Bottle#: 37 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 480-0106025-007
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 12-Jun-2022 17:30:31 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: lapointec Date: 12-Jun-2022 17:17:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.895	4.895	0.000	99	159540	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.249	7.249	0.000	87	316021	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.163	9.163	0.000	96	306078	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.414	4.414	0.000	94	257014	25.0	23.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.670	4.670	0.000	99	148192	25.0	25.5	
$ 5 Toluene-d8 (Surr)	98	6.103	6.103	0.000	94	777899	25.0	24.6	
$ 6 4-Bromofluorobenzene (Surr)	174	8.206	8.206	0.000	92	237042	25.0	24.2	
10 Dichlorodifluoromethane	85	1.183	1.183	0.000	99	239183	25.0	22.4	
11 Chlorodifluoromethane	51	1.207	1.207	0.000	97	320670	25.0	24.6	
12 Chloromethane	50	1.353	1.353	0.000	99	258258	25.0	19.5	
13 Vinyl chloride	62	1.427	1.426	0.001	98	201385	25.0	22.5	
144 Butadiene	54	1.439	1.439	0.000	92	170093	25.0	22.1	
14 Bromomethane	94	1.725	1.719	0.006	92	129187	25.0	21.4	
15 Chloroethane	64	1.811	1.811	0.000	97	92839	25.0	22.3	
17 Trichlorofluoromethane	101	2.000	2.000	0.000	99	273145	25.0	23.7	
16 Dichlorofluoromethane	67	2.012	2.012	0.000	97	280868	25.0	22.6	
18 Ethyl ether	59	2.286	2.280	0.006	99	156681	25.0	23.1	
141 Ethanol	45	2.286	2.298	-0.012	92	257736	1000.0	2658.4	
19 Propene oxide	58	2.365	2.365	0.000	96	248919	NC	NC	
20 Acrolein	56	2.451	2.451	0.000	99	179846	125.0	118.9	
21 112TCTFE	101	2.469	2.469	0.000	93	157664	25.0	20.8	
22 1,1-Dichloroethene	96	2.481	2.481	0.000	94	164874	25.0	23.6	
23 Acetone	43	2.597	2.597	0.000	99	415496	125.0	107.1	
25 Iodomethane	142	2.634	2.634	0.000	99	385441	25.0	25.2	
26 Carbon disulfide	76	2.664	2.664	0.000	100	582872	25.0	24.6	
24 Isopropyl alcohol	45	2.780	2.774	0.006	98	205821	250.0	358.8	
28 3-Chloro-1-propene	41	2.829	2.829	0.000	90	330491	25.0	21.1	
27 Methyl acetate	43	2.871	2.871	0.000	100	435406	50.0	48.1	
29 Acetonitrile	40	2.884	2.884	0.000	91	200779	250.0	236.2	Ma
30 Methylene Chloride	84	2.963	2.963	0.000	96	215938	25.0	24.5	
31 2-Methyl-2-propanol	59	3.121	3.121	0.000	98	323586	250.0	298.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73	3.158	3.152	0.006	99	554887	25.0	26.5	
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.000	93	202149	25.0	25.9	
33 Acrylonitrile	53	3.213	3.213	0.000	98	1047521	250.0	234.3	
35 Hexane	57	3.347	3.347	0.000	95	304101	25.0	22.7	
39 1,1-Dichloroethane	63	3.536	3.536	0.000	96	425244	25.0	25.5	
36 Isopropyl ether	45	3.554	3.554	0.000	86	864605	25.0	25.7	a
132 Halothane	117	3.573	3.573	0.000	92	157346	25.0	24.7	
37 Vinyl acetate	43	3.585	3.585	0.000	97	1500324	50.0	69.1	
40 2-Chloro-1,3-butadiene	53	3.591	3.591	0.000	94	380393	25.0	27.2	
38 1,1-Dimethoxyethane	75	3.615	3.621	-0.006	94	39231	125.0	86.1	a
41 Tert-butyl ethyl ether	59	3.847	3.847	0.000	99	720067	25.0	26.1	
44 2,2-Dichloropropane	77	3.987	3.987	0.000	94	253007	25.0	24.4	
45 cis-1,2-Dichloroethene	96	4.018	4.017	0.001	86	228672	25.0	25.4	
43 2-Butanone (MEK)	43	4.066	4.042	0.024	100	1178704	125.0	212.6	a
42 Ethyl acetate	43	4.066	4.072	-0.006	96	1178704	50.0	116.8	
46 Propionitrile	54	4.133	4.133	0.000	99	417549	250.0	250.8	
48 Chlorobromomethane	128	4.219	4.219	0.000	94	132827	25.0	24.6	
47 Methacrylonitrile	41	4.225	4.225	0.000	96	1773612	250.0	256.5	
49 Tetrahydrofuran	42	4.231	4.231	0.000	95	223359	50.0	65.7	
50 Chloroform	83	4.280	4.280	0.000	95	383845	25.0	23.5	
51 1,1,1-Trichloroethane	97	4.377	4.377	0.000	98	318437	25.0	23.9	
52 Cyclohexane	56	4.389	4.389	0.000	94	401034	25.0	23.1	
55 Carbon tetrachloride	117	4.499	4.493	0.006	97	295708	25.0	23.9	
54 1,1-Dichloropropene	75	4.505	4.505	0.000	93	273081	25.0	24.2	
146 Isooctane	57	4.670	4.670	0.000	92	740759	25.0	23.9	
57 Benzene	78	4.676	4.676	0.000	97	753473	25.0	25.3	
53 Isobutyl alcohol	43	4.676	4.676	0.000	63	396841	625.0	780.4	
58 1,2-Dichloroethane	62	4.731	4.725	0.006	96	328443	25.0	24.2	
140 t-Amyl alcohol	59	4.731	4.731	0.000	62	291816	250.0	284.4	
56 Tert-amyl methyl ether	73	4.731	4.737	-0.006	92	662161	25.0	27.0	
59 n-Heptane	43	4.822	4.822	0.000	97	375735	25.0	24.2	
154 2,4,4-Trimethyl-1-pentene	55	5.078	5.078	0.000	99	156528	NC	NC	
62 Trichloroethene	95	5.170	5.170	0.000	97	216765	25.0	26.5	
60 n-Butanol	56	5.182	5.182	0.000	90	183506	625.0	761.5	
145 Ethyl acrylate	55	5.267	5.261	0.006	96	1103795	25.0	41.0	
153 2,4,4-Trimethyl-2-pentene	97	5.267	5.267	0.000	89	401551	NC	NC	
64 Methylcyclohexane	83	5.273	5.273	0.000	78	319259	25.0	23.7	
65 1,2-Dichloropropane	63	5.365	5.365	0.000	95	227735	25.0	25.9	
63 Methyl methacrylate	41	5.432	5.432	0.000	93	422844	50.0	54.4	
66 1,4-Dioxane	88	5.475	5.474	0.001	37	42532	500.0	673.9	
67 Dibromomethane	93	5.475	5.474	0.001	96	153510	25.0	25.3	
68 Dichlorobromomethane	83	5.590	5.590	0.000	98	290784	25.0	26.0	
70 2-Nitropropane	43	5.792	5.786	0.006	98	209291	50.0	99.7	
69 2-Chloroethyl vinyl ether	63	5.804	5.804	0.000	90	108761	25.0	24.7	
71 Epichlorohydrin	57	5.883	5.883	0.000	99	255949	250.0	278.8	
72 cis-1,3-Dichloropropene	75	5.920	5.920	0.000	94	323372	25.0	28.7	
73 4-Methyl-2-pentanone (MIBK)	43	6.029	6.029	0.000	98	1335884	125.0	114.7	
74 Toluene	92	6.151	6.151	0.000	97	453999	25.0	25.6	
77 trans-1,3-Dichloropropene	75	6.365	6.365	0.000	96	282378	25.0	27.2	
75 Ethyl methacrylate	69	6.389	6.389	0.000	96	215735	25.0	25.8	
79 1,1,2-Trichloroethane	83	6.511	6.511	0.000	93	151590	25.0	25.6	
81 Tetrachloroethene	166	6.572	6.572	0.000	96	230193	25.0	25.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
82 1,3-Dichloropropane	76	6.639	6.639	0.000	96	277250	25.0	26.4	
80 2-Hexanone	43	6.676	6.675	0.001	99	884926	125.0	109.7	
155 n-Butyl acetate	43	6.755	6.755	0.000	98	394640	25.0	23.8	
83 Chlorodibromomethane	129	6.822	6.828	-0.006	90	233305	25.0	25.8	
84 Ethylene Dibromide	107	6.913	6.913	0.000	98	205818	25.0	26.2	
139 1-Chlorohexane	55	7.224	7.224	0.000	91	208257	25.0	28.0	
85 3-Chlorobenzotrifluoride	180	7.230	7.230	0.000	93	292274	25.0	29.7	
87 Chlorobenzene	112	7.273	7.273	0.000	94	527196	25.0	25.0	
86 4-Chlorobenzotrifluoride	180	7.279	7.279	0.000	93	283771	25.0	32.0	
88 Ethylbenzene	91	7.340	7.340	0.000	99	804982	25.0	23.5	
89 1,1,1,2-Tetrachloroethane	131	7.346	7.346	0.000	96	226625	25.0	24.5	
90 m-Xylene & p-Xylene	106	7.432	7.431	0.001	99	314588	25.0	23.7	
91 o-Xylene	106	7.761	7.761	0.000	97	329957	25.0	23.8	
92 Styrene	104	7.779	7.779	0.000	95	522254	25.0	25.1	
95 Bromoform	173	7.974	7.974	0.000	94	143498	25.0	25.4	
93 2-Chlorobenzotrifluoride	180	7.986	7.980	0.006	98	313733	25.0	29.5	
94 Isopropylbenzene	105	8.047	8.047	0.000	96	876368	25.0	24.2	
96 Cyclohexanone	55	8.187	8.188	-0.001	94	110828	250.0	293.9	
101 Bromobenzene	156	8.334	8.334	0.000	98	231412	25.0	27.1	
97 1,1,2,2-Tetrachloroethane	83	8.352	8.358	-0.006	95	259305	25.0	26.5	
99 N-Propylbenzene	91	8.383	8.382	0.001	99	974539	25.0	24.1	
100 1,2,3-Trichloropropane	110	8.389	8.389	0.000	86	65652	25.0	26.7	
98 trans-1,4-Dichloro-2-butene	53	8.395	8.395	0.000	78	60088	25.0	23.8	
103 2-Chlorotoluene	126	8.480	8.480	0.000	97	214591	25.0	28.3	
102 1,3,5-Trimethylbenzene	105	8.529	8.529	0.000	95	737451	25.0	24.0	
104 3-Chlorotoluene	126	8.529	8.529	0.000	96	218256	25.0	28.9	
105 4-Chlorotoluene	126	8.572	8.571	0.001	97	227758	25.0	30.2	
106 tert-Butylbenzene	134	8.797	8.797	0.000	94	152961	25.0	24.1	
107 1,2,4-Trimethylbenzene	105	8.840	8.840	0.000	97	753849	25.0	24.3	
108 Pentachloroethane	167	8.852	8.852	0.000	93	150481	25.0	30.2	
109 sec-Butylbenzene	105	8.974	8.974	0.000	95	961539	25.0	23.9	
110 4-Isopropyltoluene	119	9.096	9.096	0.000	97	830585	25.0	24.0	
111 1,3-Dichlorobenzene	146	9.108	9.108	0.000	99	419908	25.0	26.1	
114 Dicyclopentadiene	66	9.169	9.169	0.000	97	1116812	25.0	30.3	
113 1,4-Dichlorobenzene	146	9.181	9.181	0.000	95	422788	25.0	25.1	
112 1,2,3-Trimethylbenzene	105	9.199	9.200	-0.001	99	834714	25.0	26.5	
143 Benzyl chloride	91	9.303	9.303	0.000	99	377395	25.0	27.4	
115 n-Butylbenzene	91	9.437	9.443	-0.006	98	744118	25.0	23.9	
116 1,2-Dichlorobenzene	146	9.498	9.504	-0.006	98	437190	25.0	25.4	
117 1,2-Dibromo-3-Chloropropane	75	10.181	10.181	0.000	86	51464	25.0	27.6	
118 1,3,5-Trichlorobenzene	180	10.309	10.309	0.000	98	368827	25.0	27.2	
119 1,2,4-Trichlorobenzene	180	10.846	10.845	0.001	95	361954	25.0	28.2	
120 Hexachlorobutadiene	225	10.949	10.949	0.000	97	170106	25.0	28.4	
121 Naphthalene	128	11.053	11.053	0.000	97	1012832	25.0	29.7	
122 1,2,3-Trichlorobenzene	180	11.248	11.248	0.000	96	377698	25.0	28.2	
142 2-Methylnaphthalene	142	11.931	11.925	0.006	92	683748	25.0	33.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

8260 CORP mix_00224	Amount Added:	12.50	Units: uL	
GAS CORP mix_00513	Amount Added:	12.50	Units: uL	
ADD CORP mix_00125	Amount Added:	12.50	Units: uL	
3_MCP_Add_WRK_00359	Amount Added:	12.50	Units: uL	
D 8260 IS/SUR_00040	Amount Added:	1.00	Units: uL	Run Reagent

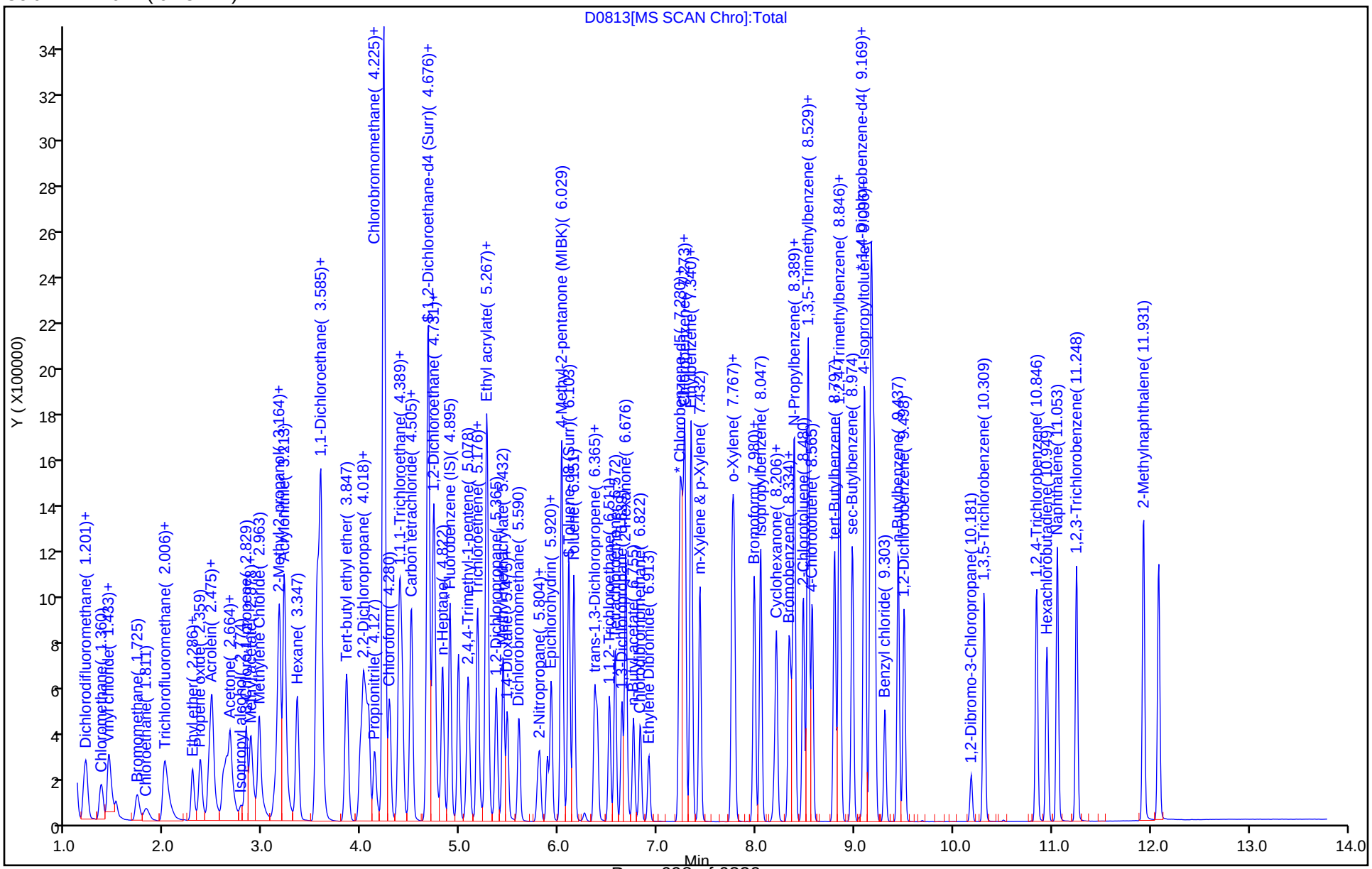
Report Date: 12-Jun-2022 17:31:06 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0813.D

Injection Date:	12-Jun-2022 00:21:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	LCSD			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	37
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0813.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 12-Jun-2022 00:21:30 ALS Bottle#: 37 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 480-0106025-007
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 12-Jun-2022 17:30:31 Calib Date: 09-Jun-2022 21:36:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20220609-105984.b\D0739.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: lapointec Date: 12-Jun-2022 17:17:07

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	23.9	95.57
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	25.5	102.06
$ 5 Toluene-d8 (Surr)	25.0	24.6	98.33
$ 6 4-Bromofluorobenzene (Surr)	25.0	24.2	96.85

Manual Integration/User Assign Peak Report

Eurofins Buffalo

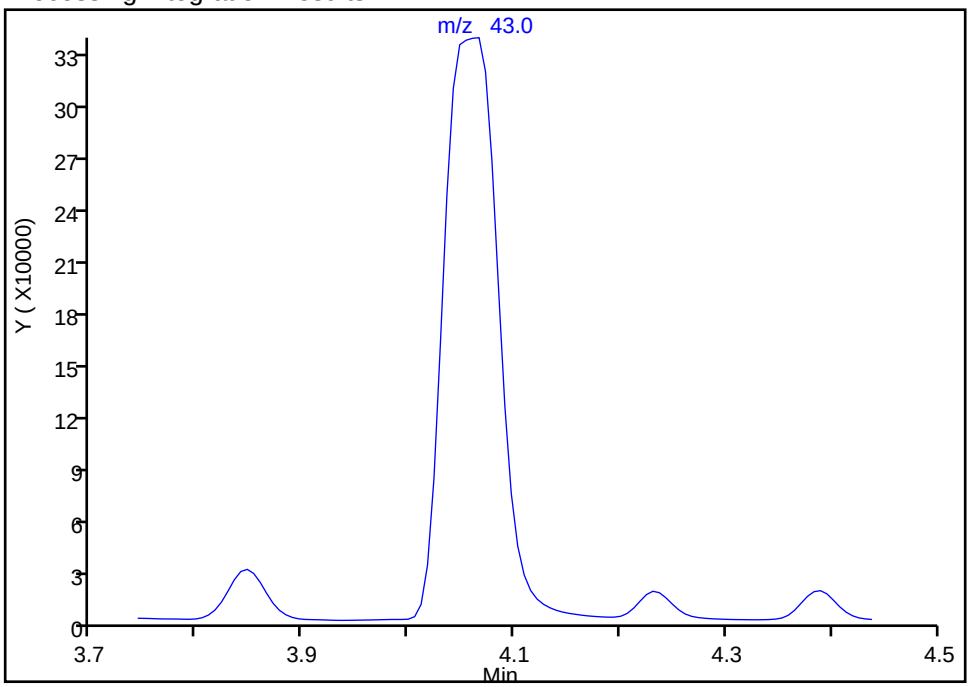
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20220611-106025.b\D0813.D
Injection Date: 12-Jun-2022 00:21:30 Instrument ID: HP5975D
Lims ID: LCSD
Client ID:
Operator ID: AK ALS Bottle#: 37 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

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

Signal: 1

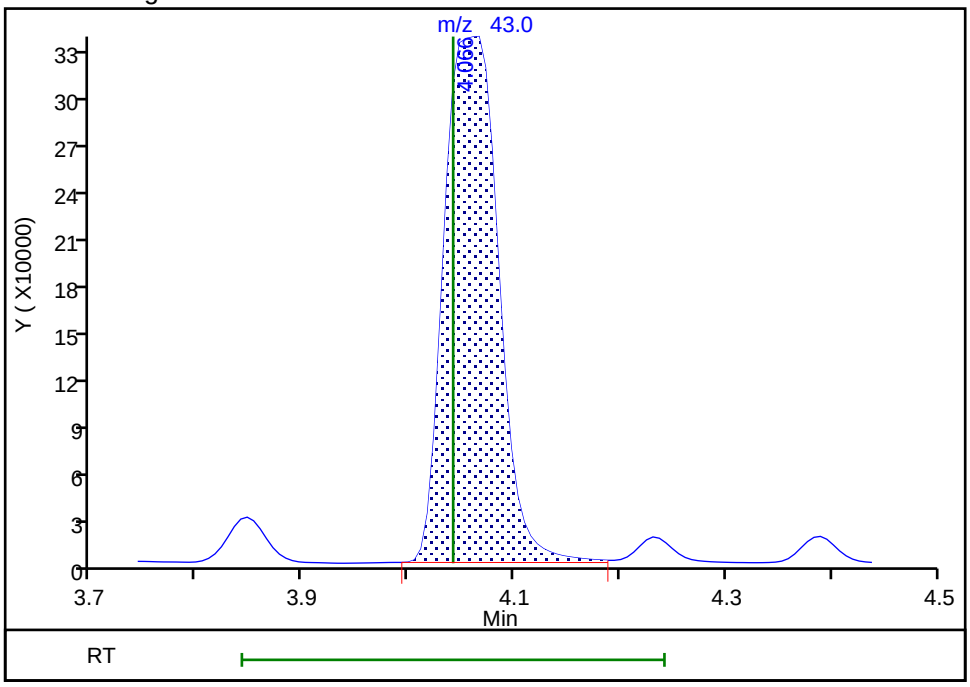
Not Detected
Expected RT: 4.04

Processing Integration Results



Manual Integration Results

RT: 4.07
Area: 1178704
Amount: 212.5649
Amount Units: ug/L



Reviewer: lapointec, 12-Jun-2022 17:16:03
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: HP5973N Start Date: 06/06/2022 16:59

Analysis Batch Number: 628923 End Date: 06/07/2022 02:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-628923/7		06/06/2022 16:59	1	N5154.D	ZB-624 (20) 0.18(mm)
IC 480-628923/9		06/06/2022 17:50	1	N5156.D	ZB-624 (20) 0.18(mm)
IC 480-628923/10		06/06/2022 18:13	1	N5157.D	ZB-624 (20) 0.18(mm)
IC 480-628923/11		06/06/2022 18:37	1	N5158.D	ZB-624 (20) 0.18(mm)
IC 480-628923/12		06/06/2022 19:00	1	N5159.D	ZB-624 (20) 0.18(mm)
IC 480-628923/13		06/06/2022 19:24	1	N5160.D	ZB-624 (20) 0.18(mm)
ICIS 480-628923/14		06/06/2022 19:47	1	N5161.D	ZB-624 (20) 0.18(mm)
IC 480-628923/15		06/06/2022 20:10	1	N5162.D	ZB-624 (20) 0.18(mm)
IC 480-628923/16		06/06/2022 20:33	1	N5163.D	ZB-624 (20) 0.18(mm)
IC 480-628923/21		06/06/2022 22:28	1		ZB-624 (20) 0.18(mm)
IC 480-628923/22		06/06/2022 22:51	1		ZB-624 (20) 0.18(mm)
IC 480-628923/23		06/06/2022 23:14	1		ZB-624 (20) 0.18(mm)
IC 480-628923/24		06/06/2022 23:38	1		ZB-624 (20) 0.18(mm)
IC 480-628923/25		06/07/2022 00:01	1		ZB-624 (20) 0.18(mm)
IC 480-628923/26		06/07/2022 00:24	1		ZB-624 (20) 0.18(mm)
IC 480-628923/27		06/07/2022 00:47	1		ZB-624 (20) 0.18(mm)
ICV 480-628923/30		06/07/2022 01:57	1	N5177.D	ZB-624 (20) 0.18(mm)
ICV 480-628923/31		06/07/2022 02:20	1		ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: HP5973N Start Date: 06/15/2022 18:40

Analysis Batch Number: 630178 End Date: 06/16/2022 06:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-630178/2		06/15/2022 18:40	1	N5618.D	ZB-624 (20) 0.18(mm)
CCVIS 480-630178/4		06/15/2022 19:26	1	N5620.D	ZB-624 (20) 0.18(mm)
CCV 480-630178/5		06/15/2022 19:49	1		ZB-624 (20) 0.18(mm)
LCS 480-630178/6		06/15/2022 20:12	1	N5622.D	ZB-624 (20) 0.18(mm)
RL 480-630178/7		06/15/2022 20:35	1		ZB-624 (20) 0.18(mm)
MB 480-630178/8		06/15/2022 20:59	1	N5624.D	ZB-624 (20) 0.18(mm)
ZZZZZ		06/15/2022 21:22	1		ZB-624 (20) 0.18(mm)
480-198813-1	MW-1A	06/15/2022 22:08	1	N5627.D	ZB-624 (20) 0.18(mm)
480-198813-2	MW-2A	06/15/2022 22:31	1	N5628.D	ZB-624 (20) 0.18(mm)
480-198813-3	MW-2B	06/15/2022 22:55	1	N5629.D	ZB-624 (20) 0.18(mm)
480-198813-4	MW-3A	06/15/2022 23:18	1	N5630.D	ZB-624 (20) 0.18(mm)
480-198813-5	MW-3B	06/15/2022 23:42	1	N5631.D	ZB-624 (20) 0.18(mm)
480-198813-6	MW-4A	06/16/2022 00:04	1	N5632.D	ZB-624 (20) 0.18(mm)
480-198813-7	MW-5A	06/16/2022 00:27	1	N5633.D	ZB-624 (20) 0.18(mm)
480-198813-8	MW-6A	06/16/2022 00:50	1	N5634.D	ZB-624 (20) 0.18(mm)
480-198813-9	MW-6B	06/16/2022 01:13	1	N5635.D	ZB-624 (20) 0.18(mm)
480-198813-10	MW-7A	06/16/2022 01:37	1	N5636.D	ZB-624 (20) 0.18(mm)
480-198813-11	TRIP BLANK 1	06/16/2022 02:00	1	N5637.D	ZB-624 (20) 0.18(mm)
ZZZZZ		06/16/2022 02:22	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/16/2022 02:45	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/16/2022 03:09	20		ZB-624 (20) 0.18(mm)
ZZZZZ		06/16/2022 03:32	2		ZB-624 (20) 0.18(mm)
ZZZZZ		06/16/2022 03:55	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/16/2022 04:18	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/16/2022 04:41	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/16/2022 05:04	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/16/2022 05:28	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/16/2022 05:51	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/16/2022 06:14	20		ZB-624 (20) 0.18(mm)
ZZZZZ		06/16/2022 06:38	20		ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: HP5975D Start Date: 06/09/2022 14:17

Analysis Batch Number: 629405 End Date: 06/09/2022 23:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-629405/8		06/09/2022 14:17	1	D0719.D	ZB-624 (20) 0.18(mm)
IC 480-629405/10		06/09/2022 15:00	1	D0721.D	ZB-624 (20) 0.18(mm)
IC 480-629405/11		06/09/2022 15:22	1	D0722.D	ZB-624 (20) 0.18(mm)
IC 480-629405/12		06/09/2022 15:44	1	D0723.D	ZB-624 (20) 0.18(mm)
IC 480-629405/13		06/09/2022 16:06	1	D0724.D	ZB-624 (20) 0.18(mm)
IC 480-629405/14		06/09/2022 16:28	1	D0725.D	ZB-624 (20) 0.18(mm)
ICIS 480-629405/15		06/09/2022 16:50	1	D0726.D	ZB-624 (20) 0.18(mm)
IC 480-629405/16		06/09/2022 17:12	1	D0727.D	ZB-624 (20) 0.18(mm)
IC 480-629405/17		06/09/2022 17:34	1	D0728.D	ZB-624 (20) 0.18(mm)
ZZZZZ		06/09/2022 18:18	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/09/2022 18:39	1		ZB-624 (20) 0.18(mm)
IC 480-629405/22		06/09/2022 19:23	1		ZB-624 (20) 0.18(mm)
IC 480-629405/23		06/09/2022 19:45	1		ZB-624 (20) 0.18(mm)
IC 480-629405/24		06/09/2022 20:08	1		ZB-624 (20) 0.18(mm)
IC 480-629405/25		06/09/2022 20:30	1		ZB-624 (20) 0.18(mm)
IC 480-629405/26		06/09/2022 20:52	1		ZB-624 (20) 0.18(mm)
IC 480-629405/27		06/09/2022 21:14	1		ZB-624 (20) 0.18(mm)
IC 480-629405/28		06/09/2022 21:36	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/09/2022 22:20	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/09/2022 22:43	1		ZB-624 (20) 0.18(mm)
ICV 480-629405/32		06/09/2022 23:05	1		ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: HP5975D Start Date: 06/10/2022 13:42

Analysis Batch Number: 629635 End Date: 06/10/2022 19:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-629635/2		06/10/2022 13:42	1		ZB-624 (20) 0.18(mm)
ICV 480-629635/3		06/10/2022 14:15	1	D0745.D	ZB-624 (20) 0.18(mm)
CCVIS 480-629635/4		06/10/2022 14:47	1		ZB-624 (20) 0.18(mm)
CCV 480-629635/5		06/10/2022 15:09	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/10/2022 15:31	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/10/2022 15:53	1		ZB-624 (20) 0.18(mm)
RL 480-629635/10		06/10/2022 16:59	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/10/2022 17:22	1		ZB-624 (20) 0.18(mm)
		06/10/2022 19:57	2		ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: HP5975D Start Date: 06/11/2022 22:54

Analysis Batch Number: 629695 End Date: 06/12/2022 07:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-629695/3		06/11/2022 22:54	1	D0809.D	ZB-624 (20) 0.18(mm)
CCVIS 480-629695/4		06/11/2022 23:15	1	D0810.D	ZB-624 (20) 0.18(mm)
CCV 480-629695/5		06/11/2022 23:37	1		ZB-624 (20) 0.18(mm)
LCS 480-629695/6		06/11/2022 23:59	1	D0812.D	ZB-624 (20) 0.18(mm)
LCSD 480-629695/7		06/12/2022 00:21	1	D0813.D	ZB-624 (20) 0.18(mm)
MB 480-629695/9		06/12/2022 01:04	1	D0815.D	ZB-624 (20) 0.18(mm)
ZZZZZ		06/12/2022 01:26	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/12/2022 01:48	1		ZB-624 (20) 0.18(mm)
480-198720-1	CD-1	06/12/2022 02:10	1	D0818.D	ZB-624 (20) 0.18(mm)
480-198720-2	CD-1RA	06/12/2022 02:32	1	D0819.D	ZB-624 (20) 0.18(mm)
480-198720-3	MW-1B	06/12/2022 02:54	1	D0820.D	ZB-624 (20) 0.18(mm)
480-198720-4	DUP CD-1RA	06/12/2022 03:16	1	D0821.D	ZB-624 (20) 0.18(mm)
480-198720-5	TRIP BLANK 1	06/12/2022 03:38	1	D0822.D	ZB-624 (20) 0.18(mm)
ZZZZZ		06/12/2022 04:00	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/12/2022 04:22	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/12/2022 04:44	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/12/2022 05:05	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/12/2022 05:27	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/12/2022 05:49	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/12/2022 06:11	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/12/2022 06:34	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/12/2022 06:56	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/12/2022 07:17	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/12/2022 07:40	1		ZB-624 (20) 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 628923 Batch Start Date: 06/06/22 16:59 Batch Analyst: Hill, Leah C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260 CORP mix 00225	BFB_WRK 00135	GAS CORP mix 00512	N 8260 IS 00232
BFB 480-628923/7		8260C		1 uL	1 uL		1 uL		
IC 480-628923/9		8260C		5 mL	5 mL	0.5 uL		0.5 uL	1 uL
IC 480-628923/10		8260C		5 mL	5 mL	1 uL		1 uL	1 uL
IC 480-628923/11		8260C		5 mL	5 mL	2 uL		2 uL	1 uL
IC 480-628923/12		8260C		5 mL	5 mL	5 uL		5 uL	1 uL
IC 480-628923/13		8260C		5 mL	5 mL	5 uL		5 uL	1 uL
ICIS 480-628923/14		8260C		5 mL	5 mL	12.5 uL		12.5 uL	1 uL
IC 480-628923/15		8260C		5 mL	5 mL	25 uL		25 uL	1 uL
IC 480-628923/16		8260C		5 mL	5 mL	50 uL		50 uL	1 uL
ICV 480-628923/30		8260C		5 mL	5 mL				1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	N_8260_Surr 00440	SS 8260 CORP 00101	SS GAS CORP 00455			
BFB 480-628923/7		8260C							
IC 480-628923/9		8260C		1 uL					
IC 480-628923/10		8260C		1 uL					
IC 480-628923/11		8260C		1 uL					
IC 480-628923/12		8260C		1 uL					
IC 480-628923/13		8260C		1 uL					
ICIS 480-628923/14		8260C		1 uL					
IC 480-628923/15		8260C		1 uL					
IC 480-628923/16		8260C		1 uL					
ICV 480-628923/30		8260C		1 uL	12.5 uL	12.5 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 628923 Batch Start Date: 06/06/22 16:59 Batch Analyst: Hill, Leah C

Batch Method: 8260C Batch End Date:

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629405 Batch Start Date: 06/09/22 14:17 Batch Analyst: Kiwan, Ahmad x

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260 CORP mix 00224	BFB_WRK 00134	D 8260 IS/SUR 00041	GAS CORP mix 00513
BFB 480-629405/8		8260C		1 uL	1 uL		1 uL		
IC 480-629405/10		8260C		5 mL	5 mL	0.4 uL		1 uL	0.4 uL
IC 480-629405/11		8260C		5 mL	5 mL	1 uL		1 uL	1 uL
IC 480-629405/12		8260C		5 mL	5 mL	2 uL		1 uL	2 uL
IC 480-629405/13		8260C		5 mL	5 mL	5 uL		1 uL	5 uL
IC 480-629405/14		8260C		5 mL	5 mL	5 uL		1 uL	5 uL
ICIS 480-629405/15		8260C		5 mL	5 mL	12.5 uL		1 uL	12.5 uL
IC 480-629405/16		8260C		5 mL	5 mL	25 uL		1 uL	25 uL
IC 480-629405/17		8260C		5 mL	5 mL	50 uL		1 uL	50 uL

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629635 Batch Start Date: 06/10/22 13:42 Batch Analyst: Server (DO NOT DELETE), P

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	D 8260 IS/SUR 00040	SS 8260 CORP 00101	SS GAS CORP 00456	
ICV 480-629635/3		8260C		5 mL	5 mL	1 uL	12.5 uL	12.5 uL	

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629695 Batch Start Date: 06/11/22 22:54 Batch Analyst: LaPointe, Cody R

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	3_MCP_Add_WRK 00359	8260 CORP mix 00224	ADD CORP mix 00125
BFB 480-629695/3		8260C		1 uL	1 uL				
CCVIS 480-629695/4		8260C		5 mL	5 mL			12.5 uL	
LCS 480-629695/6		8260C		5 mL	5 mL		12.5 uL	12.5 uL	12.5 uL
LCSD 480-629695/7		8260C		5 mL	5 mL		12.5 uL	12.5 uL	12.5 uL
MB 480-629695/9		8260C		5 mL	5 mL				
480-198720-N-1	CD-1	8260C	T	5 mL	5 mL	<2 SU			
480-198720-N-2	CD-1RA	8260C	T	5 mL	5 mL	<2 SU			
480-198720-N-3	MW-1B	8260C	T	5 mL	5 mL	<2 SU			
480-198720-N-4	DUP CD-1RA	8260C	T	5 mL	5 mL	<2 SU			
480-198720-A-5	TRIP BLANK 1	8260C	T	5 mL	5 mL	<2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	BFB_WRK 00134	D 8260 IS/SUR 00040	GAS CORP mix 00513			
BFB 480-629695/3		8260C		1 uL					
CCVIS 480-629695/4		8260C			1 uL	12.5 uL			
LCS 480-629695/6		8260C			1 uL	12.5 uL			
LCSD 480-629695/7		8260C			1 uL	12.5 uL			
MB 480-629695/9		8260C			1 uL				
480-198720-N-1	CD-1	8260C	T		1 uL				
480-198720-N-2	CD-1RA	8260C	T		1 uL				
480-198720-N-3	MW-1B	8260C	T		1 uL				
480-198720-N-4	DUP CD-1RA	8260C	T		1 uL				
480-198720-A-5	TRIP BLANK 1	8260C	T		1 uL				

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629695 Batch Start Date: 06/11/22 22:54 Batch Analyst: LaPointe, Cody R

Batch Method: 8260C Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 630178 Batch Start Date: 06/15/22 18:40 Batch Analyst: Repka, Carly

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00225	BFB_WRK 00135	GAS CORP mix 00514
BFB 480-630178/2		8260C		1 uL	1 uL			1 uL	
CCVIS 480-630178/4		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-630178/6		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-630178/8		8260C		5 mL	5 mL				
480-198813-M-1	MW-1A	8260C	T	5 mL	5 mL	<2 SU			
480-198813-M-2	MW-2A	8260C	T	5 mL	5 mL	<2 SU			
480-198813-M-3	MW-2B	8260C	T	5 mL	5 mL	<2 SU			
480-198813-M-4	MW-3A	8260C	T	5 mL	5 mL	<2 SU			
480-198813-M-5	MW-3B	8260C	T	5 mL	5 mL	<2 SU			
480-198813-M-6	MW-4A	8260C	T	5 mL	5 mL	<2 SU			
480-198813-M-7	MW-5A	8260C	T	5 mL	5 mL	<2 SU			
480-198813-M-8	MW-6A	8260C	T	5 mL	5 mL	<2 SU			
480-198813-M-9	MW-6B	8260C	T	5 mL	5 mL	<2 SU			
480-198813-M-10	MW-7A	8260C	T	5 mL	5 mL	<2 SU			
480-198813-A-11	TRIP BLANK 1	8260C	T	5 mL	5 mL	<2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	N 8260 IS 00232	N_8260_Surr 00440				
BFB 480-630178/2		8260C							
CCVIS 480-630178/4		8260C		1 uL	1 uL				
LCS 480-630178/6		8260C		1 uL	1 uL				
MB 480-630178/8		8260C		1 uL	1 uL				
480-198813-M-1	MW-1A	8260C	T	1 uL	1 uL				
480-198813-M-2	MW-2A	8260C	T	1 uL	1 uL				
480-198813-M-3	MW-2B	8260C	T	1 uL	1 uL				
480-198813-M-4	MW-3A	8260C	T	1 uL	1 uL				
480-198813-M-5	MW-3B	8260C	T	1 uL	1 uL				
480-198813-M-6	MW-4A	8260C	T	1 uL	1 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 630178 Batch Start Date: 06/15/22 18:40 Batch Analyst: Repka, Carly

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	N 8260 IS 00232	N_8260_Surr 00440				
480-198813-M-7	MW-5A	8260C	T	1 uL	1 uL				
480-198813-M-8	MW-6A	8260C	T	1 uL	1 uL				
480-198813-M-9	MW-6B	8260C	T	1 uL	1 uL				
480-198813-M-10	MW-7A	8260C	T	1 uL	1 uL				
480-198813-A-11	TRIP BLANK 1	8260C	T	1 uL	1 uL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8270D SIM-ID

Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water Level: Low

GC Column (1): RXI-5Sil MS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DXE #
CD-1	480-198722-1	33
CD-1RA	480-198722-2	36
MW-1B	480-198722-3	35
MW-1A	480-198818-1	39
MW-2A	480-198818-2	35
MW-2B	480-198818-3	35
MW-6A	480-198818-4	41
MW-6B	480-198818-5	37
	MB 480-629117/1-A	39
	MB 480-629476/1-A	39
	LCS 480-629117/2-A	38
	LCS 480-629476/2-A	38
	LCSD 480-629117/3-A	38

	QC LIMITS
DXE = 1,4-Dioxane-d8	15-110

Column to be used to flag recovery values

FORM II 8270D SIM ID

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water Level: Low Lab File ID: U331669814.D

Lab ID: LCS 480-629117/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	2.00	2.37	119	40-140	
1,4-Dioxane-d8	20.0	7.58	38	15-110	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water Level: Low Lab File ID: U331669863.D

Lab ID: LCS 480-629476/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	2.00	2.35	118	40-140	
1,4-Dioxane-d8	20.0	7.65	38	15-110	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water Level: Low Lab File ID: U331669815.D

Lab ID: LCSD 480-629117/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,4-Dioxane	2.00	2.36	118	1	20	40-140	
1,4-Dioxane-d8	20.0	7.55	38			15-110	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab File ID: U331669813.D Lab Sample ID: MB 480-629117/1-A

Matrix: Water Date Extracted: 06/07/2022 15:03

Instrument ID: HP5973U Date Analyzed: 06/08/2022 23:40

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-629117/2-A	U331669814.D	06/09/2022 00:03
	LCSD 480-629117/3-A	U331669815.D	06/09/2022 00:25
CD-1	480-198722-1	U331669816.D	06/09/2022 00:47
CD-1RA	480-198722-2	U331669817.D	06/09/2022 01:09
MW-1B	480-198722-3	U331669818.D	06/09/2022 01:31

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab File ID: U331669862.D Lab Sample ID: MB 480-629476/1-A

Matrix: Water Date Extracted: 06/09/2022 14:44

Instrument ID: HP5973U Date Analyzed: 06/10/2022 15:27

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-629476/2-A	U331669863.D	06/10/2022 15:49
MW-1A	480-198818-1	U331669869.D	06/10/2022 18:04
MW-2A	480-198818-2	U331669870.D	06/10/2022 18:27
MW-2B	480-198818-3	U331669871.D	06/10/2022 18:49
MW-6A	480-198818-4	U331669872.D	06/10/2022 19:10
MW-6B	480-198818-5	U331669873.D	06/10/2022 19:33

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab File ID: U33166049.D DFTPP Injection Date: 04/06/2022

Instrument ID: HP5973U DFTPP Injection Time: 16:12

Analysis Batch No.: 620693

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	30.1	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	32.9	
70	Less than 2% of mass 69	0.2	(0.6) 1
127	10-80% of Base Peak	42.2	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.8	
275	10-60% of Base Peak	27.9	
365	Greater than 1% of mass 198	4.4	
441	present but less than 24% of mass 442	19.7	(16.7) 2
442	Greater than 50% of mass 198	118.0	
443	15-24% of mass 442	22.7	(19.2) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-620693/3	U33166050.D	04/06/2022	16:42
	IC 480-620693/4	U33166051.D	04/06/2022	17:04
	IC 480-620693/5	U33166052.D	04/06/2022	17:26
	ICIS 480-620693/6	U33166053.D	04/06/2022	17:48
	IC 480-620693/7	U33166054.D	04/06/2022	18:09
	IC 480-620693/8	U33166055.D	04/06/2022	18:32
	ICV 480-620693/9	U33166056.D	04/06/2022	18:54

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab File ID: U331669811.D DFTPP Injection Date: 06/08/2022

Instrument ID: HP5973U DFTPP Injection Time: 22:46

Analysis Batch No.: 629253

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	26.2	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	31.4	
70	Less than 2% of mass 69	0.2	(0.6) 1
127	10-80% of Base Peak	41.1	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.9	
275	10-60% of Base Peak	30.2	
365	Greater than 1% of mass 198	4.8	
441	present but less than 24% of mass 442	24.3	(16.2) 2
442	Greater than 50% of mass 198	150.1	
443	15-24% of mass 442	28.9	(19.3) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-629253/3	U331669812.D	06/08/2022	23:18
	MB 480-629117/1-A	U331669813.D	06/08/2022	23:40
	LCS 480-629117/2-A	U331669814.D	06/09/2022	0:03
	LCSD 480-629117/3-A	U331669815.D	06/09/2022	0:25
CD-1	480-198722-1	U331669816.D	06/09/2022	0:47
CD-1RA	480-198722-2	U331669817.D	06/09/2022	1:09
MW-1B	480-198722-3	U331669818.D	06/09/2022	1:31

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab File ID: U331669858.D DFTPP Injection Date: 06/10/2022

Instrument ID: HP5973U DFTPP Injection Time: 13:51

Analysis Batch No.: 629619

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	27.3	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	32.1	
70	Less than 2% of mass 69	0.2	(0.5) 1
127	10-80% of Base Peak	42.4	
197	Less than 2% of mass 198	0.1	
198	Base peak	100.0	
199	5-9% of mass 198	6.9	
275	10-60% of Base Peak	29.9	
365	Greater than 1% of mass 198	4.7	
441	present but less than 24% of mass 442	22.7	(15.7) 2
442	Greater than 50% of mass 198	145.0	
443	15-24% of mass 442	27.9	(19.2) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-629619/3	U331669859.D	06/10/2022	14:21
	MB 480-629476/1-A	U331669862.D	06/10/2022	15:27
	LCS 480-629476/2-A	U331669863.D	06/10/2022	15:49
MW-1A	480-198818-1	U331669869.D	06/10/2022	18:04
MW-2A	480-198818-2	U331669870.D	06/10/2022	18:27
MW-2B	480-198818-3	U331669871.D	06/10/2022	18:49
MW-6A	480-198818-4	U331669872.D	06/10/2022	19:10
MW-6B	480-198818-5	U331669873.D	06/10/2022	19:33

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

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Sample No.: ICIS 480-620693/6 Date Analyzed: 04/06/2022 17:48

Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

Lab File ID (Standard): U33166053.D Heated Purge: (Y/N) N

Calibration ID: 43312

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		385552	6.31				
UPPER LIMIT		771104	6.81				
LOWER LIMIT		192776	5.81				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-620693/9		402759	6.31				
CCVIS 480-629253/3		486071	6.31				
CCVIS 480-629619/3		443387	6.31				

DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8270D SIM ID

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

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Sample No.: CCVIS 480-629253/3 Date Analyzed: 06/08/2022 23:18

Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

Lab File ID (Standard): U331669812.D Heated Purge: (Y/N) N

Calibration ID: 43312

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		486071	6.31				
UPPER LIMIT		972142	6.81				
LOWER LIMIT		243036	5.81				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-629117/1-A		447793	6.31				
LCS 480-629117/2-A		439549	6.31				
LCSD 480-629117/3-A		438341	6.31				
480-198722-1	CD-1	463857	6.31				
480-198722-2	CD-1RA	442068	6.31				
480-198722-3	MW-1B	435509	6.31				

DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8270D SIM ID

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

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Sample No.: CCVIS 480-629619/3 Date Analyzed: 06/10/2022 14:21

Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

Lab File ID (Standard): U331669859.D Heated Purge: (Y/N) N

Calibration ID: 43312

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		443387	6.31				
UPPER LIMIT		886774	6.81				
LOWER LIMIT		221694	5.81				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-629476/1-A		416552	6.31				
LCS 480-629476/2-A		439132	6.31				
480-198818-1	MW-1A	426178	6.31				
480-198818-2	MW-2A	423999	6.31				
480-198818-3	MW-2B	424778	6.31				
480-198818-4	MW-6A	416161	6.30				
480-198818-5	MW-6B	441445	6.31				

DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8270D SIM ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: CD-1 | Lab Sample ID: 480-198722-1

Matrix: Water | Lab File ID: U331669816.D

Analysis Method: 8270D SIM ID | Date Collected: 06/06/2022 13:20

Extract. Method: 3510C | Date Extracted: 06/07/2022 15:03

Sample wt/vol: 250(mL) | Date Analyzed: 06/09/2022 00:47

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: | % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 629253 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
123-91-1	1,4-Dioxane	ND		0.20	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	33		15-110

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669816.D
Lims ID: 480-198722-A-1-B
Client ID: CD-1
Sample Type: Client
Inject. Date: 09-Jun-2022 00:47:30 ALS Bottle#: 32 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0105968-007
Operator ID: PJQ Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 09-Jun-2022 11:27:49 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1675

First Level Reviewer: quirkp Date: 09-Jun-2022 11:27:58

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D	1 1,4-Dioxane-d8	96	3.407	3.403	0.004	100	109253	1.67	33.3	
	3 1,4-Dioxane	88		3.448				ND		
*	2 1,4-Dichlorobenzene-d4	152	6.309	6.308	0.001	100	463857	4.00		

QC Flag Legend
Processing Flags

Reagents:
MB_LLIS_WRK_00235 Amount Added: 20.00 Units: uL Run Reagent

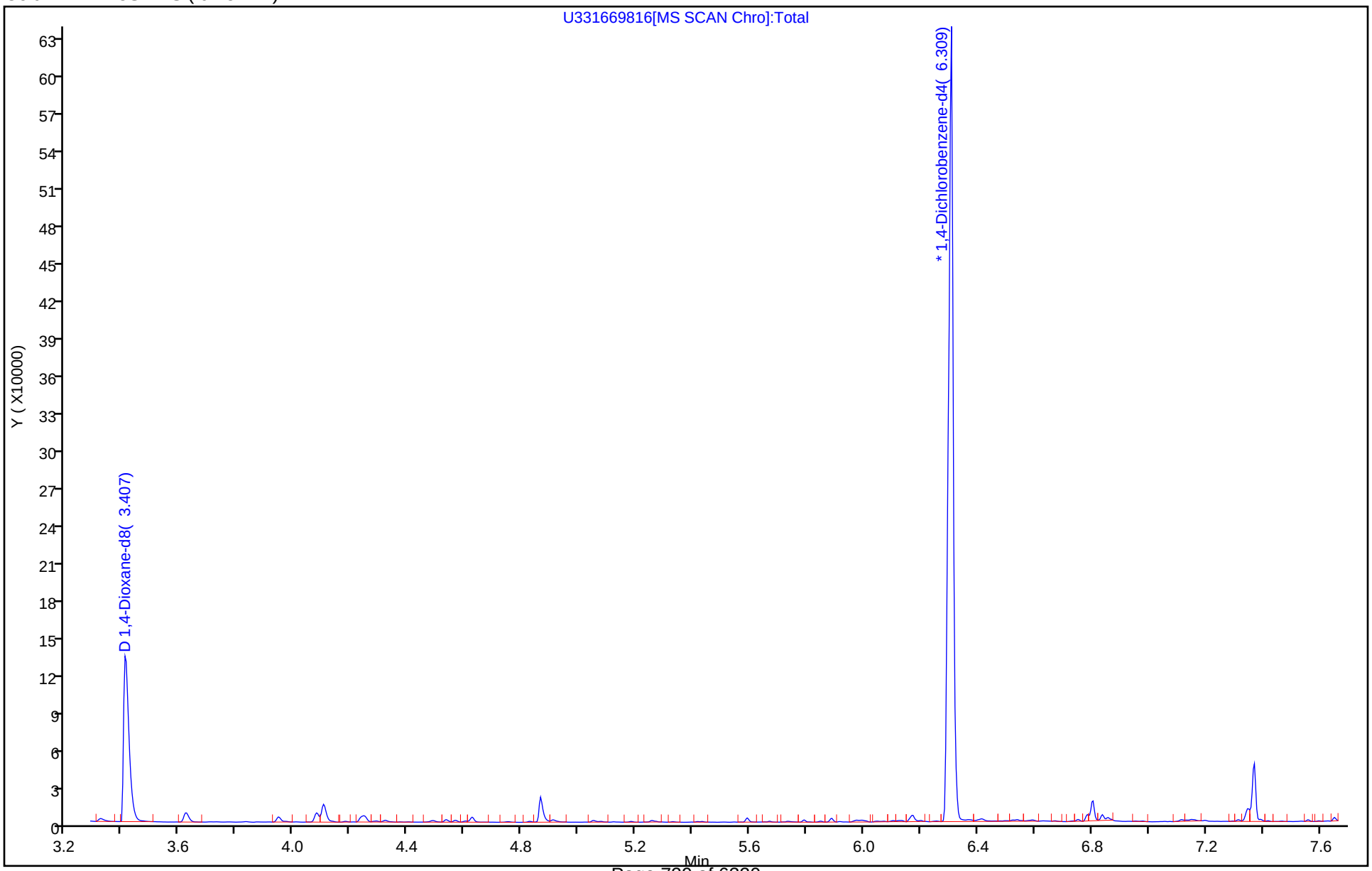
Report Date: 09-Jun-2022 11:27:58 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669816.D

Injection Date:	09-Jun-2022 00:47:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	480-198722-A-1-B	Lab Sample ID:	480-198722-1	Worklist Smp#:	7
Client ID:	CD-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



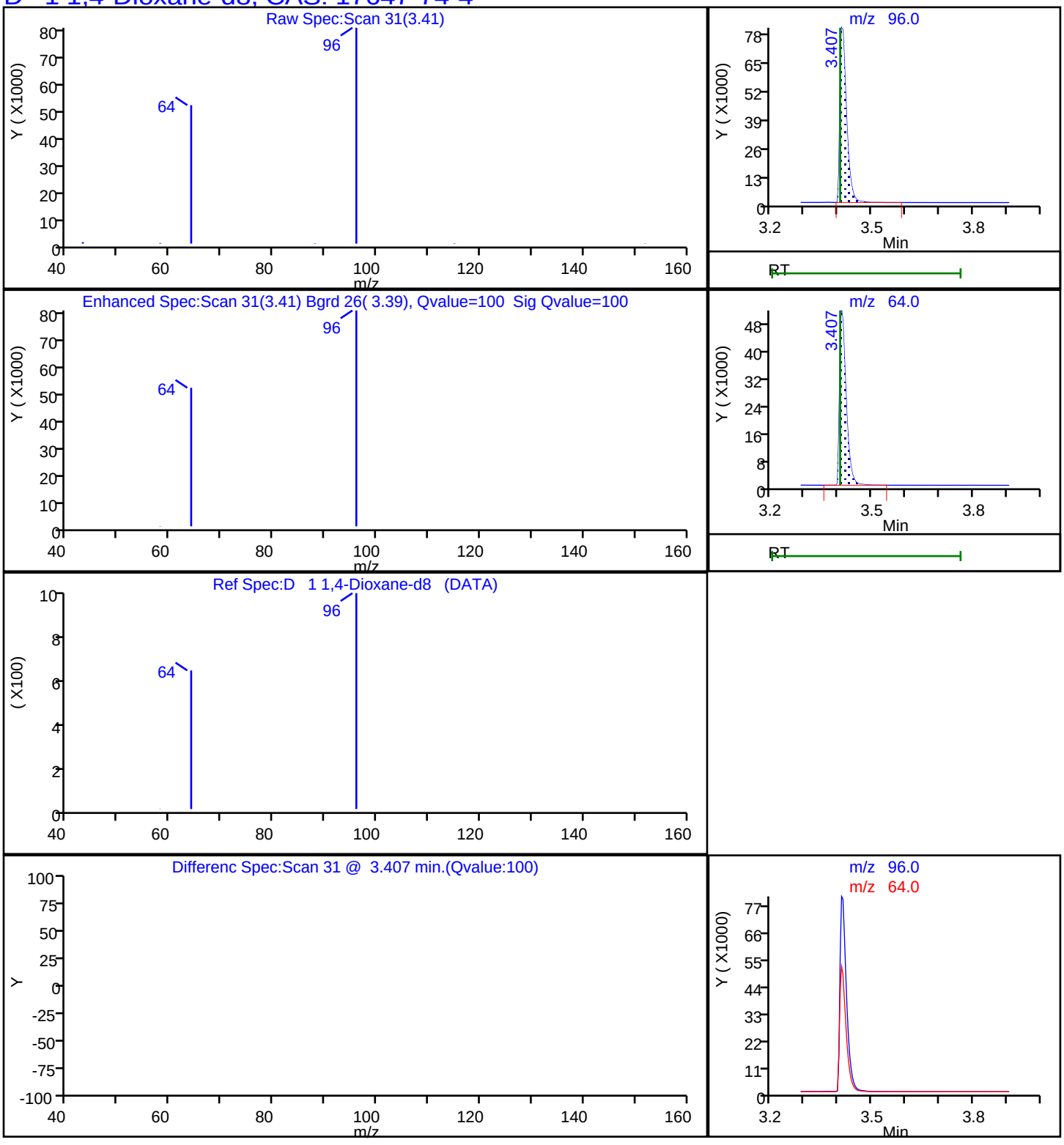
Report Date: 09-Jun-2022 11:27:58 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669816.D

Injection Date:	09-Jun-2022 00:47:30	Instrument ID:	HP5973U		
Lims ID:	480-198722-A-1-B	Lab Sample ID:	480-198722-1		
Client ID:	CD-1				
Operator ID:	PJQ	ALS Bottle#:	32	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: CD-1RA | Lab Sample ID: 480-198722-2

Matrix: Water | Lab File ID: U331669817.D

Analysis Method: 8270D SIM ID | Date Collected: 06/06/2022 12:40

Extract. Method: 3510C | Date Extracted: 06/07/2022 15:03

Sample wt/vol: 250(mL) | Date Analyzed: 06/09/2022 01:09

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: | % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 629253 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
123-91-1	1,4-Dioxane	ND		0.20	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	36		15-110

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669817.D
Lims ID: 480-198722-A-2-B
Client ID: CD-1RA
Sample Type: Client
Inject. Date: 09-Jun-2022 01:09:30 ALS Bottle#: 33 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0105968-008
Operator ID: PJQ Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 09-Jun-2022 11:27:49 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1675

First Level Reviewer: quirkp Date: 09-Jun-2022 11:28:08

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D	1 1,4-Dioxane-d8	96	3.408	3.403	0.005	99	113684	1.82	36.4	
	3 1,4-Dioxane	88		3.448				ND		
*	2 1,4-Dichlorobenzene-d4	152	6.309	6.308	0.001	100	442068	4.00		

QC Flag Legend
Processing Flags

Reagents:
MB_LLIS_WRK_00235 Amount Added: 20.00 Units: uL Run Reagent

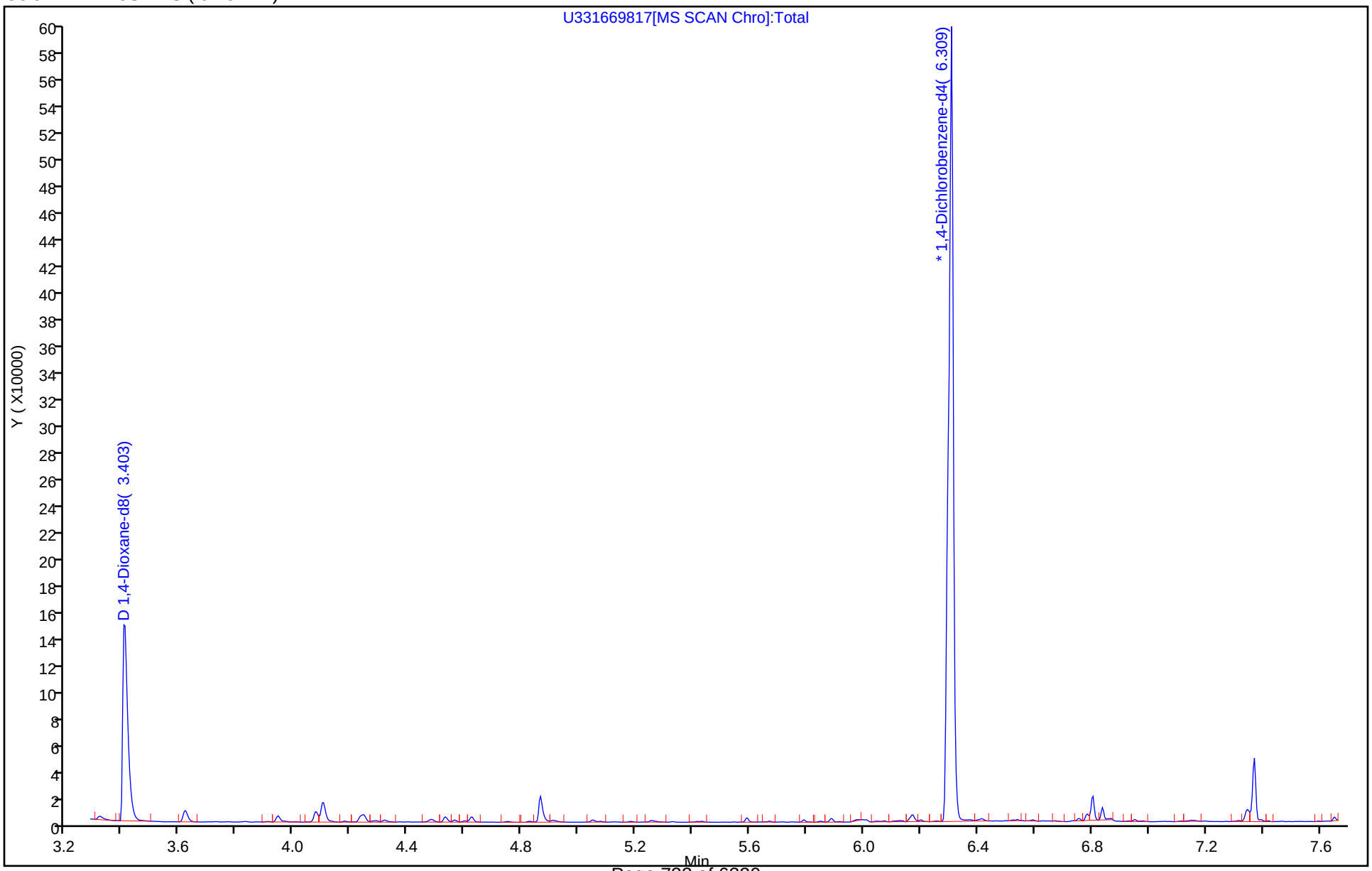
Report Date: 09-Jun-2022 11:28:09 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669817.D

Injection Date:	09-Jun-2022 01:09:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	480-198722-A-2-B	Lab Sample ID:	480-198722-2	Worklist Smp#:	8
Client ID:	CD-1RA				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



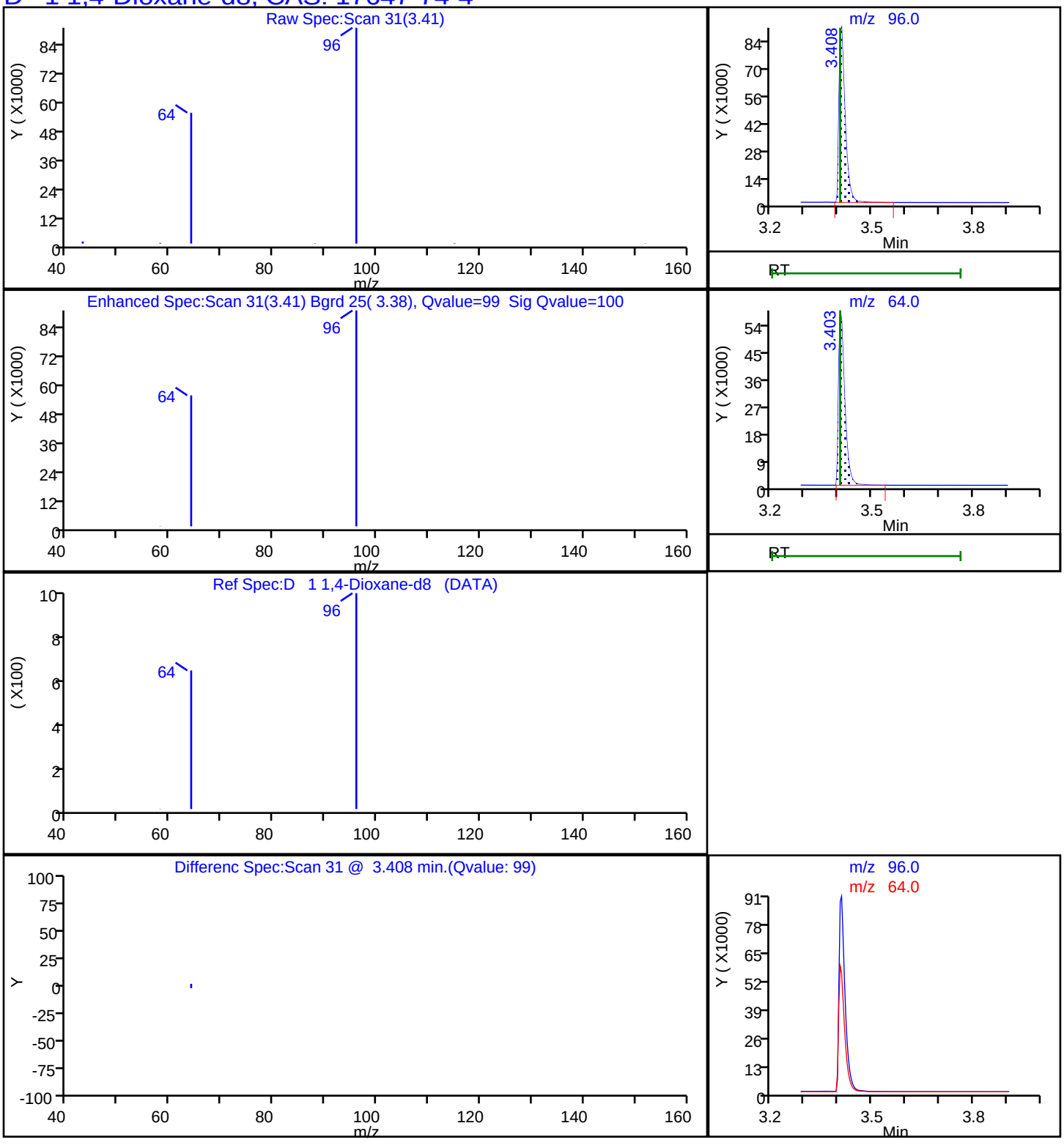
Report Date: 09-Jun-2022 11:28:09 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669817.D

Injection Date:	09-Jun-2022 01:09:30	Instrument ID:	HP5973U		
Lims ID:	480-198722-A-2-B	Lab Sample ID:	480-198722-2		
Client ID:	CD-1RA				
Operator ID:	PJQ	ALS Bottle#:	33	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-1B | Lab Sample ID: 480-198722-3

Matrix: Water | Lab File ID: U331669818.D

Analysis Method: 8270D SIM ID | Date Collected: 06/06/2022 14:40

Extract. Method: 3510C | Date Extracted: 06/07/2022 15:03

Sample wt/vol: 250(mL) | Date Analyzed: 06/09/2022 01:31

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: | % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 629253 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
123-91-1	1,4-Dioxane	ND		0.20	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	35		15-110

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669818.D
Lims ID: 480-198722-B-3-B
Client ID: MW-1B
Sample Type: Client
Inject. Date: 09-Jun-2022 01:31:30 ALS Bottle#: 34 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0105968-009
Operator ID: PJQ Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 09-Jun-2022 11:27:49 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1675

First Level Reviewer: quirkp Date: 09-Jun-2022 11:28:20

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D	1 1,4-Dioxane-d8	96	3.408	3.403	0.005	99	107991	1.75	35.1	
	3 1,4-Dioxane	88	3.460	3.448	0.012	62	619	0.0277		
*	2 1,4-Dichlorobenzene-d4	152	6.309	6.308	0.001	100	435509	4.00		

QC Flag Legend
Processing Flags

Reagents:
MB_LLIS_WRK_00235 Amount Added: 20.00 Units: uL Run Reagent

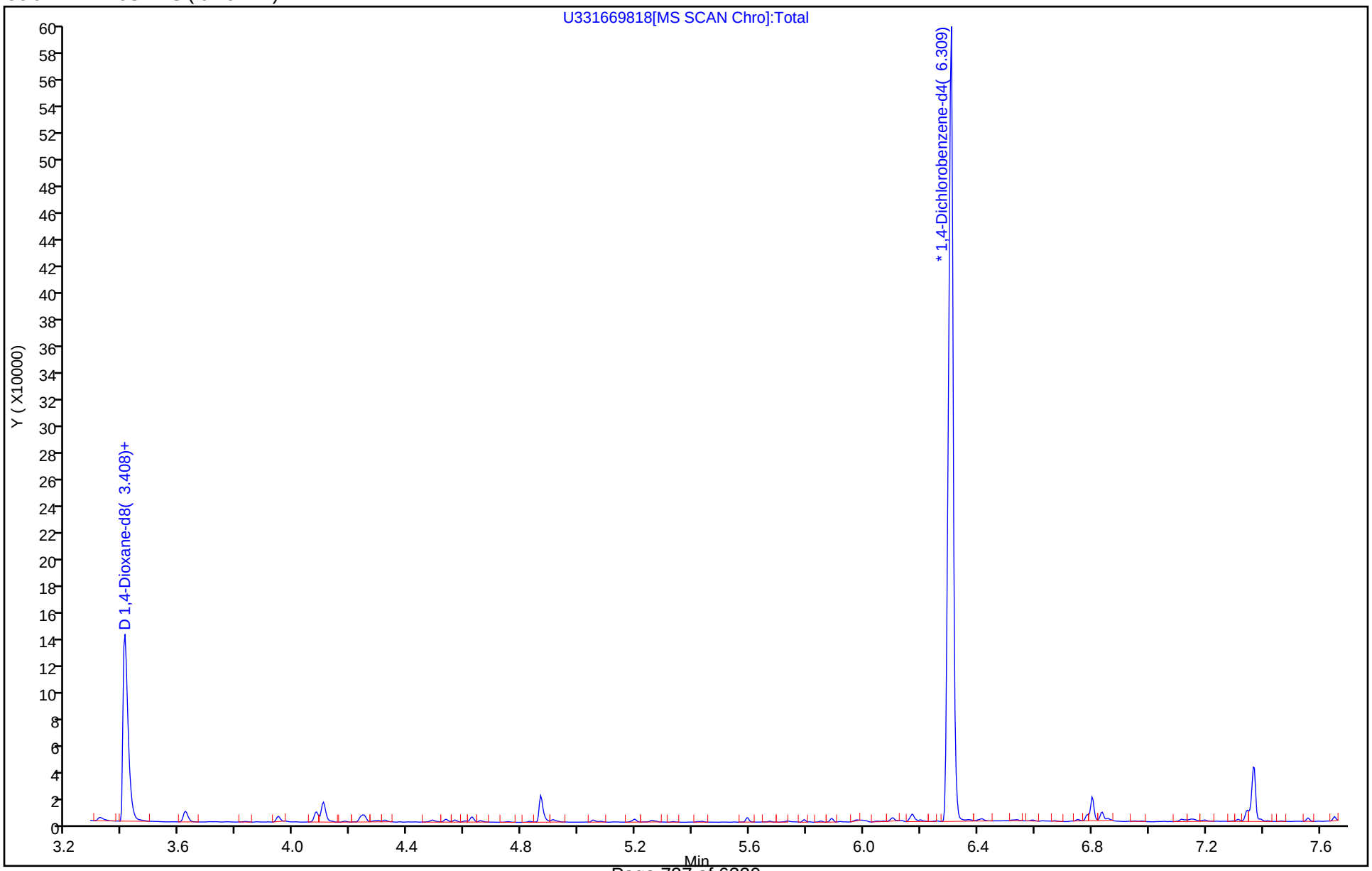
Report Date: 09-Jun-2022 11:28:20 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669818.D

Injection Date:	09-Jun-2022 01:31:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	480-198722-B-3-B	Lab Sample ID:	480-198722-3	Worklist Smp#:	9
Client ID:	MW-1B				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



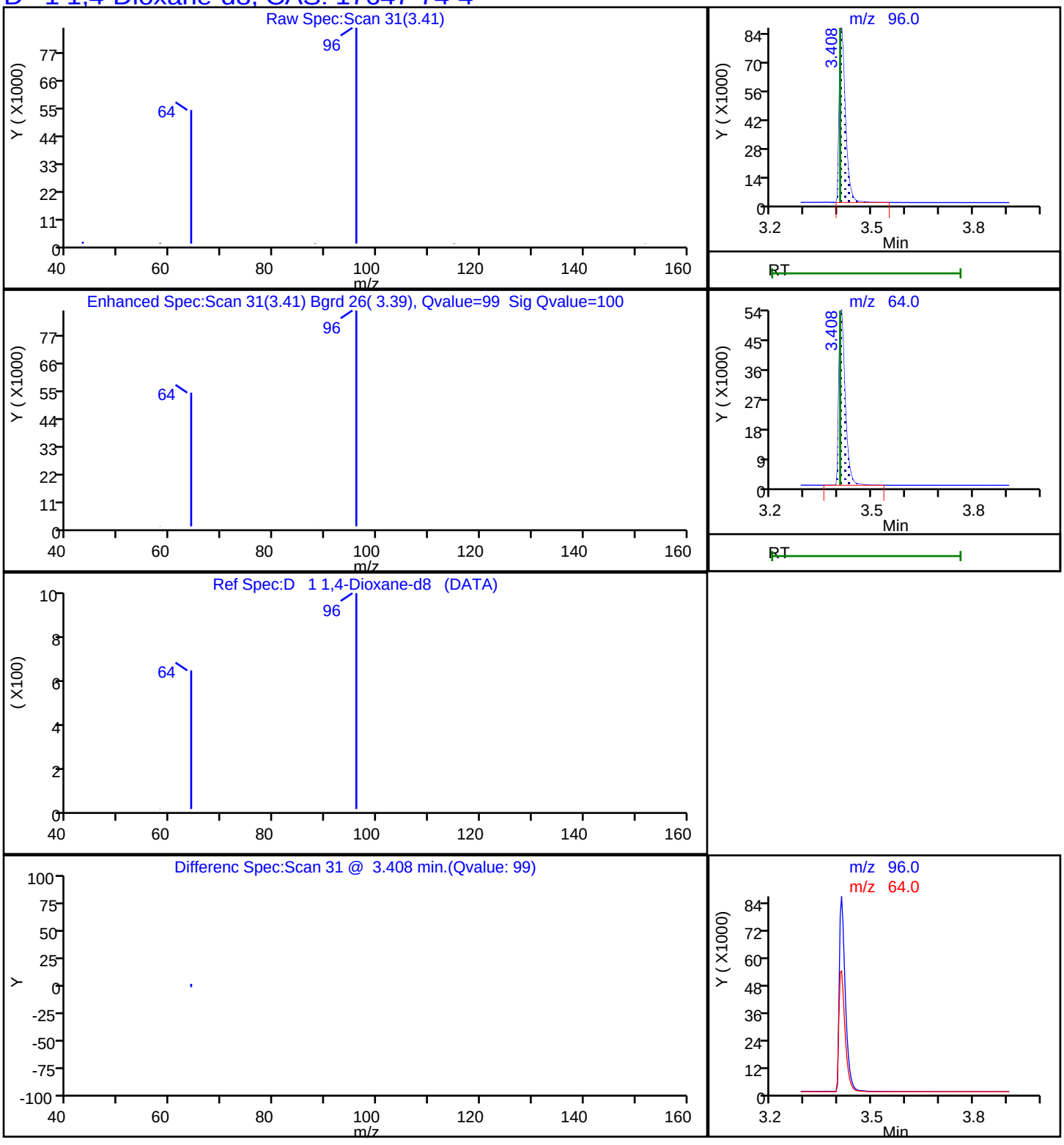
Report Date: 09-Jun-2022 11:28:20 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669818.D

Injection Date:	09-Jun-2022 01:31:30	Instrument ID:	HP5973U		
Lims ID:	480-198722-B-3-B	Lab Sample ID:	480-198722-3		
Client ID:	MW-1B				
Operator ID:	PJQ	ALS Bottle#:	34	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-1A | Lab Sample ID: 480-198818-1

Matrix: Water | Lab File ID: U331669869.D

Analysis Method: 8270D SIM ID | Date Collected: 06/08/2022 10:30

Extract. Method: 3510C | Date Extracted: 06/09/2022 14:44

Sample wt/vol: 250(mL) | Date Analyzed: 06/10/2022 18:04

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 629619 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
123-91-1	1,4-Dioxane	0.24		0.20	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	39		15-110

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669869.D
Lims ID: 480-198818-B-1-A
Client ID: MW-1A
Sample Type: Client
Inject. Date: 10-Jun-2022 18:04:30 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0106015-013
Operator ID: PJQ Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 14-Jun-2022 10:57:15 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1629

First Level Reviewer: quirkp Date: 14-Jun-2022 10:58:20

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D	1 1,4-Dioxane-d8	96	3.411	3.403	0.008	100	118017	1.96	39.2	
	3 1,4-Dioxane	88	3.460	3.448	0.012	91	1458	0.0597		
*	2 1,4-Dichlorobenzene-d4	152	6.308	6.305	0.003	100	426178	4.00		

QC Flag Legend
Processing Flags

Reagents:
MB_LLIS_WRK_00235 Amount Added: 20.00 Units: uL Run Reagent

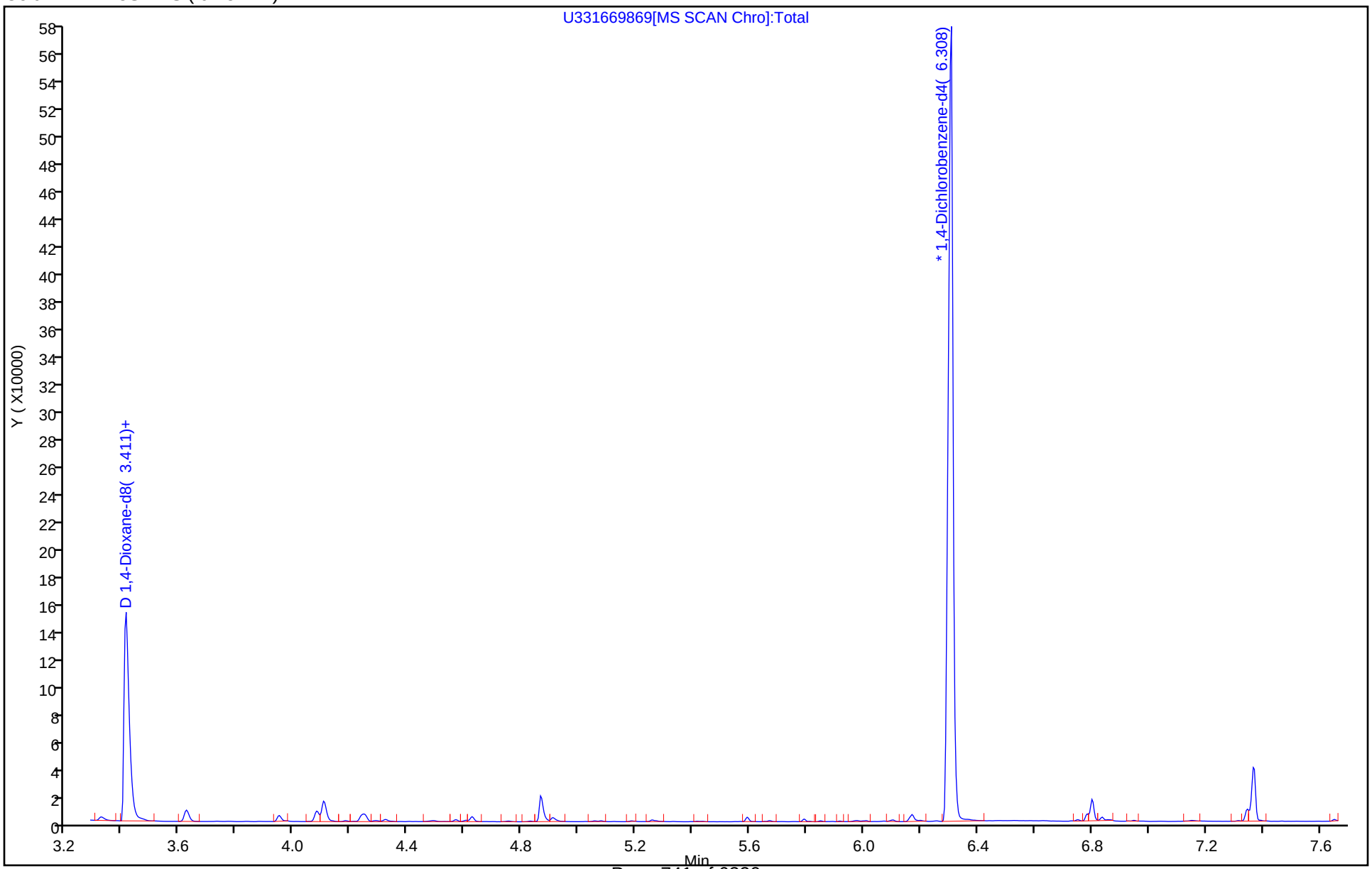
Report Date: 14-Jun-2022 10:58:21 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669869.D

Injection Date:	10-Jun-2022 18:04:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	480-198818-B-1-A	Lab Sample ID:	480-198818-1	Worklist Smp#:	13
Client ID:	MW-1A				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



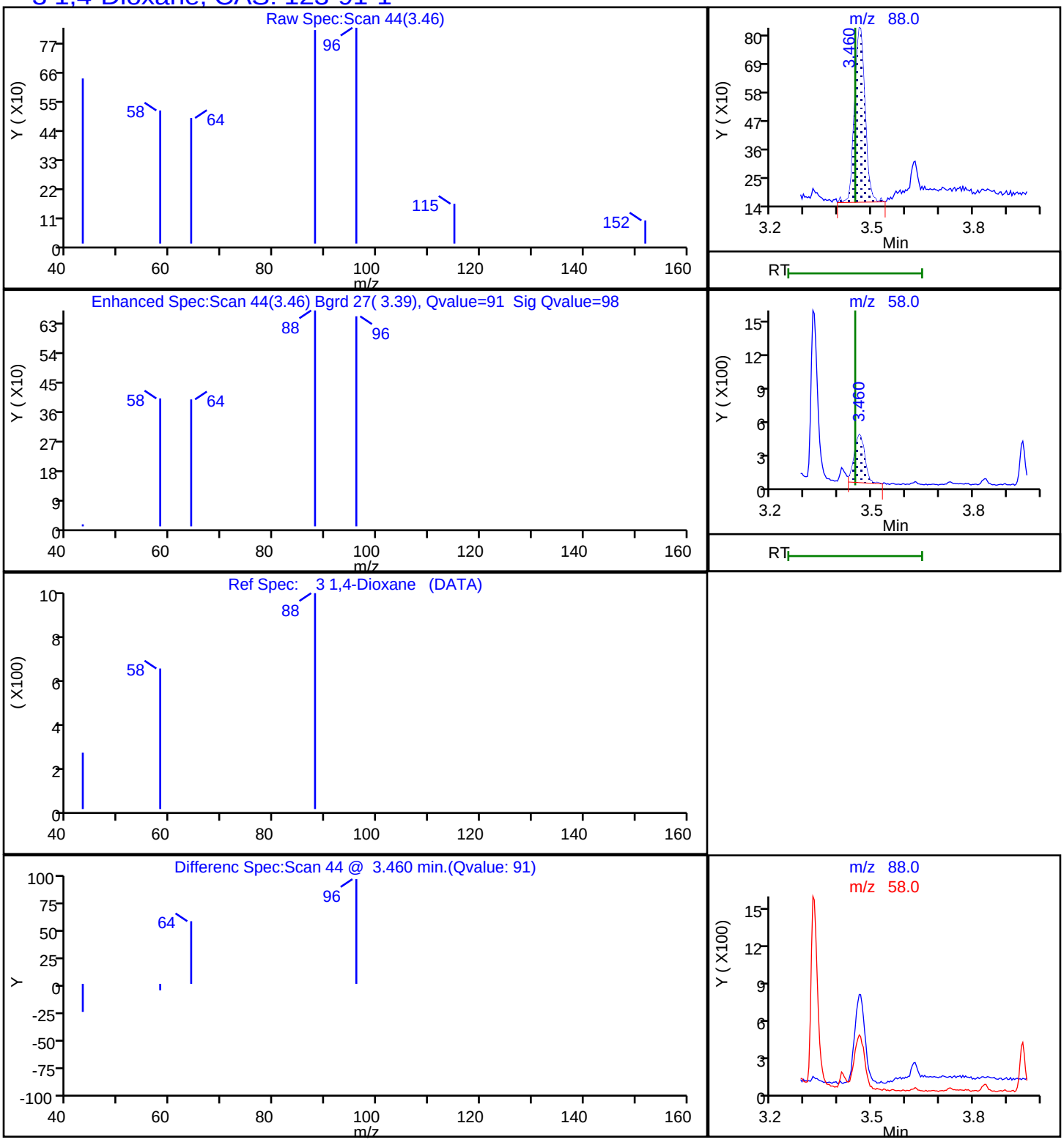
Report Date: 14-Jun-2022 10:58:21 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669869.D

Injection Date:	10-Jun-2022 18:04:30	Instrument ID:	HP5973U
Lims ID:	480-198818-B-1-A	Lab Sample ID:	480-198818-1
Client ID:	MW-1A		
Operator ID:	PJQ	ALS Bottle#:	13 Worklist Smp#: 13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

3 1,4-Dioxane, CAS: 123-91-1



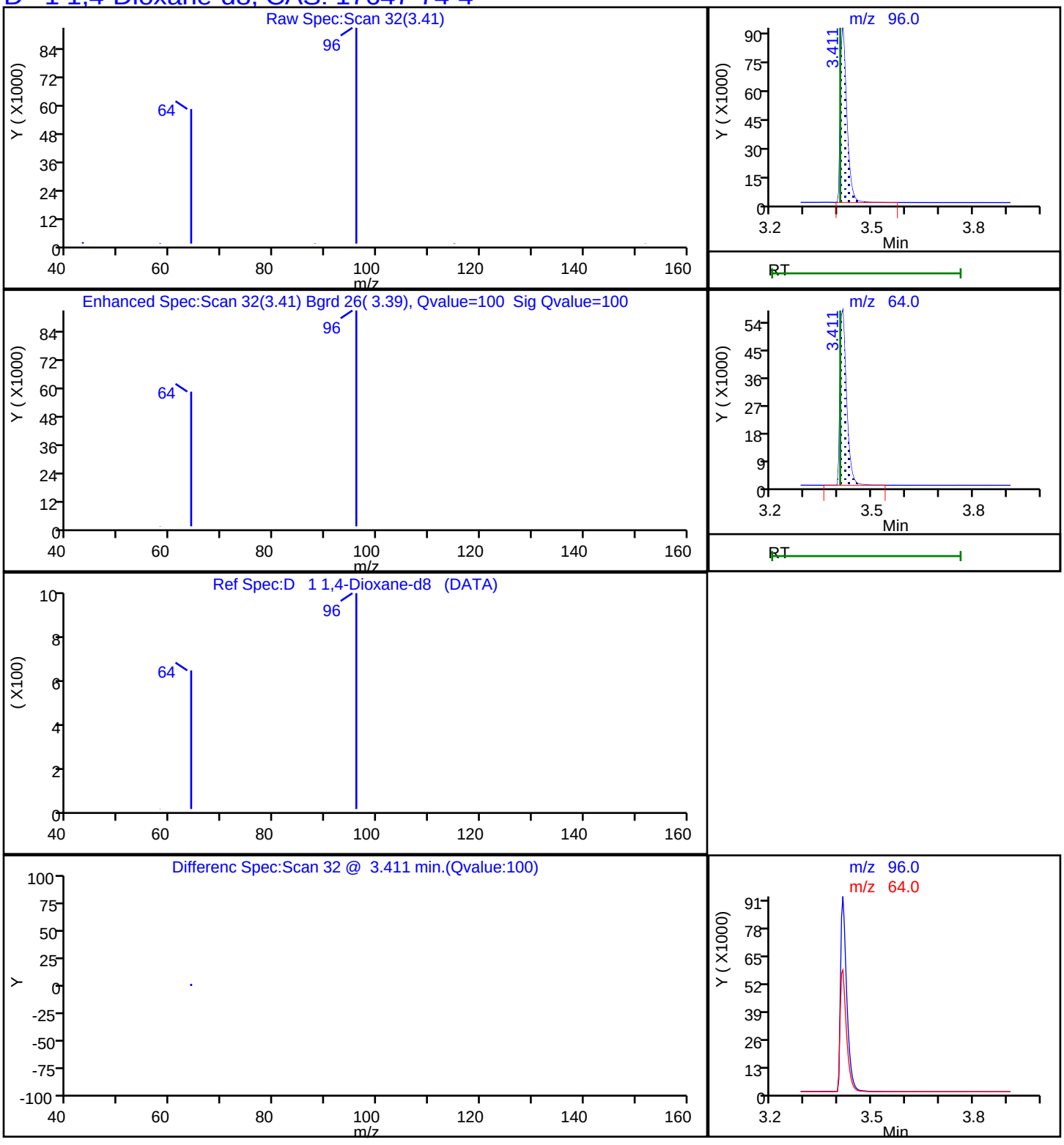
Report Date: 14-Jun-2022 10:58:21 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669869.D

Injection Date:	10-Jun-2022 18:04:30	Instrument ID:	HP5973U		
Lims ID:	480-198818-B-1-A	Lab Sample ID:	480-198818-1		
Client ID:	MW-1A				
Operator ID:	PJQ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-2A | Lab Sample ID: 480-198818-2

Matrix: Water | Lab File ID: U331669870.D

Analysis Method: 8270D SIM ID | Date Collected: 06/08/2022 10:45

Extract. Method: 3510C | Date Extracted: 06/09/2022 14:44

Sample wt/vol: 250(mL) | Date Analyzed: 06/10/2022 18:27

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 629619 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
123-91-1	1,4-Dioxane	3.6		0.20	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	35		15-110

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669870.D
Lims ID: 480-198818-A-2-A
Client ID: MW-2A
Sample Type: Client
Inject. Date: 10-Jun-2022 18:27:30 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0106015-014
Operator ID: PJQ Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 14-Jun-2022 10:57:15 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1629

First Level Reviewer: quirkp Date: 14-Jun-2022 10:58:29

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D	1 1,4-Dioxane-d8	96	3.408	3.403	0.005	99	105762	1.76	35.3	
	3 1,4-Dioxane	88	3.448	3.448	0.000	99	19438	0.8887		
*	2 1,4-Dichlorobenzene-d4	152	6.309	6.305	0.004	100	423999	4.00		

QC Flag Legend
Processing Flags

Reagents:
MB_LLIS_WRK_00235 Amount Added: 20.00 Units: uL Run Reagent

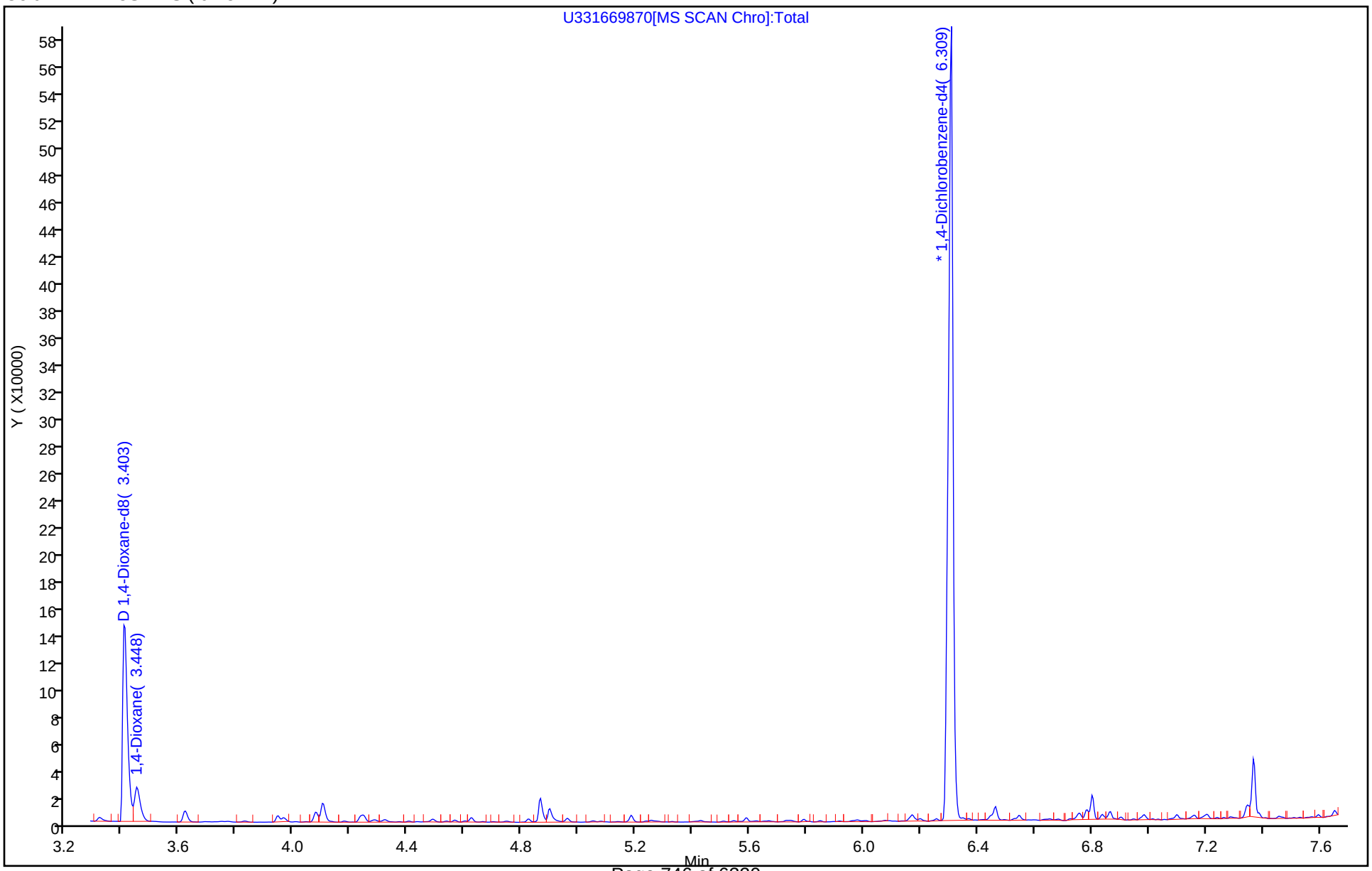
Report Date: 14-Jun-2022 10:58:29 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669870.D

Injection Date:	10-Jun-2022 18:27:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	480-198818-A-2-A	Lab Sample ID:	480-198818-2	Worklist Smp#:	14
Client ID:	MW-2A				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



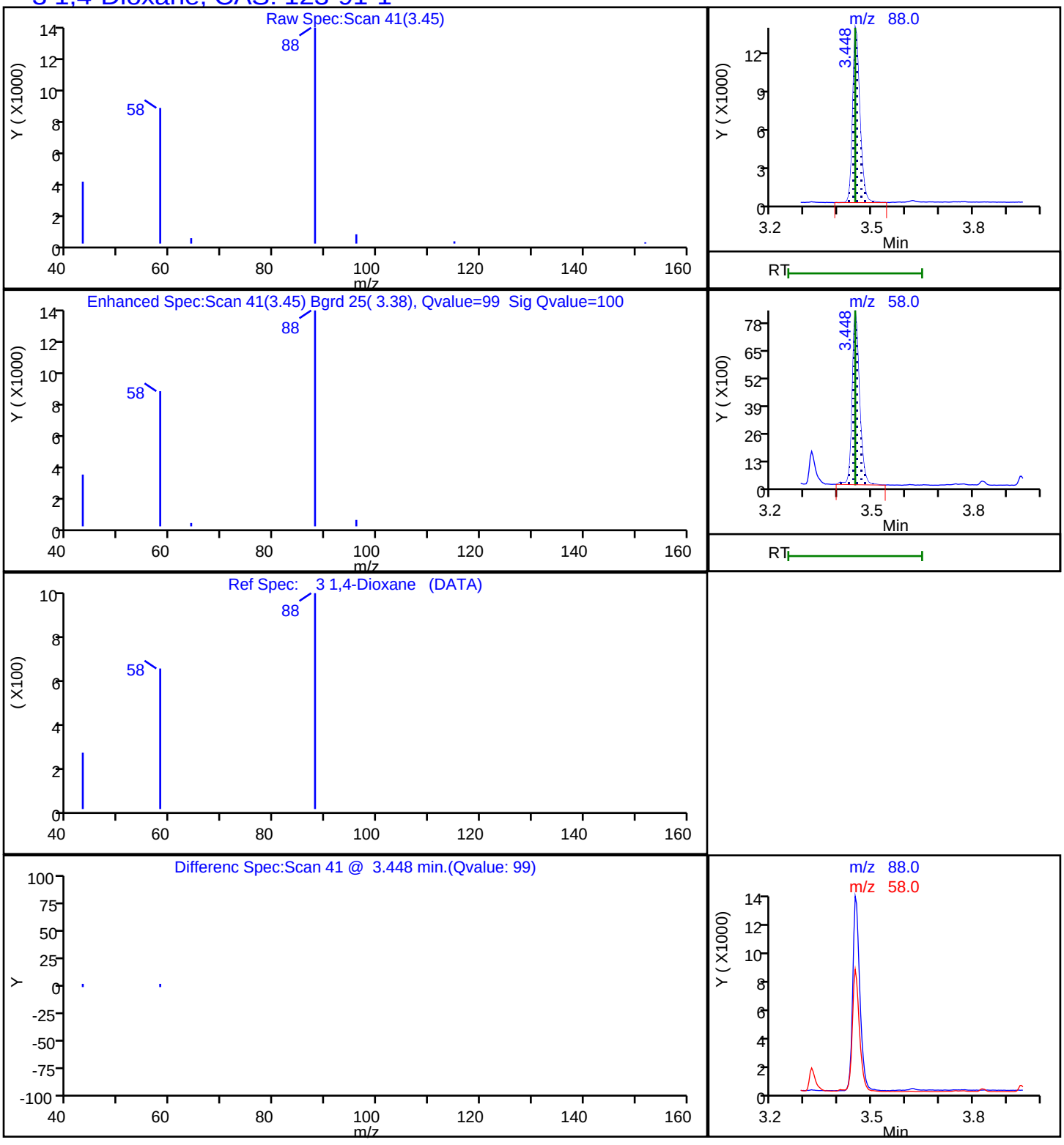
Report Date: 14-Jun-2022 10:58:30 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669870.D

Injection Date:	10-Jun-2022 18:27:30	Instrument ID:	HP5973U
Lims ID:	480-198818-A-2-A	Lab Sample ID:	480-198818-2
Client ID:	MW-2A		
Operator ID:	PJQ	ALS Bottle#:	14 Worklist Smp#: 14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

3 1,4-Dioxane, CAS: 123-91-1



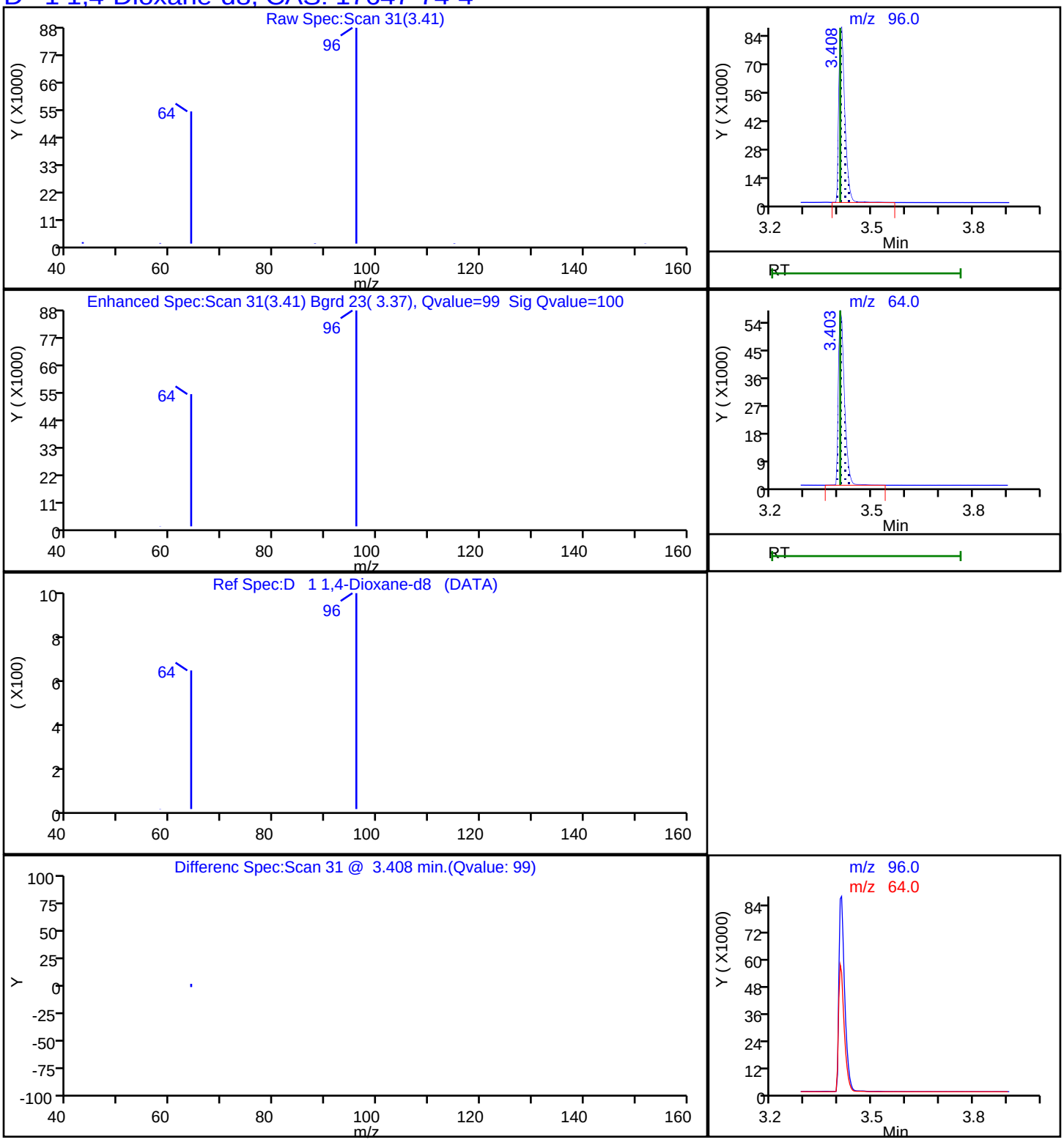
Report Date: 14-Jun-2022 10:58:29 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669870.D

Injection Date:	10-Jun-2022 18:27:30	Instrument ID:	HP5973U		
Lims ID:	480-198818-A-2-A	Lab Sample ID:	480-198818-2		
Client ID:	MW-2A				
Operator ID:	PJQ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-2B | Lab Sample ID: 480-198818-3

Matrix: Water | Lab File ID: U331669871.D

Analysis Method: 8270D SIM ID | Date Collected: 06/08/2022 11:15

Extract. Method: 3510C | Date Extracted: 06/09/2022 14:44

Sample wt/vol: 250(mL) | Date Analyzed: 06/10/2022 18:49

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 629619 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
123-91-1	1,4-Dioxane	15		2.0	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	35		15-110

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669871.D
Lims ID: 480-198818-B-3-A
Client ID: MW-2B
Sample Type: Client
Inject. Date: 10-Jun-2022 18:49:30 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 480-0106015-015
Operator ID: PJQ Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 14-Jun-2022 10:57:15 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1629

First Level Reviewer: quirkp Date: 14-Jun-2022 10:58:40

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D	1 1,4-Dioxane-d8	96	3.420	3.403	0.017	100	10637	0.1772	35.4	
	3 1,4-Dioxane	88	3.460	3.448	0.012	96	8200	0.3728		
*	2 1,4-Dichlorobenzene-d4	152	6.308	6.305	0.003	100	424778	4.00		

QC Flag Legend
Processing Flags

Reagents:
MB_LLIS_WRK_00235 Amount Added: 20.00 Units: uL Run Reagent

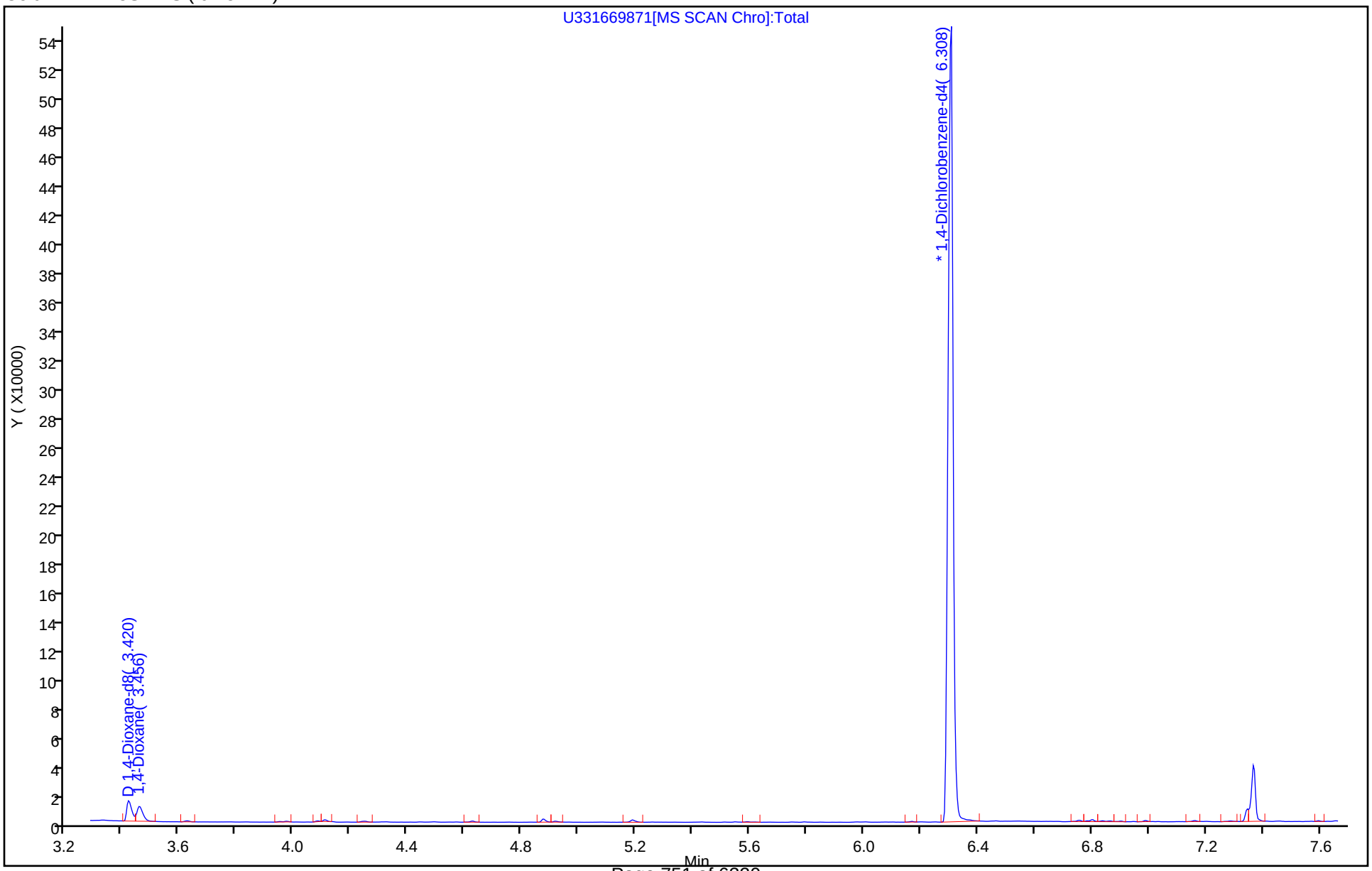
Report Date: 14-Jun-2022 10:58:40 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669871.D

Injection Date:	10-Jun-2022 18:49:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	480-198818-B-3-A	Lab Sample ID:	480-198818-3	Worklist Smp#:	15
Client ID:	MW-2B				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	15
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



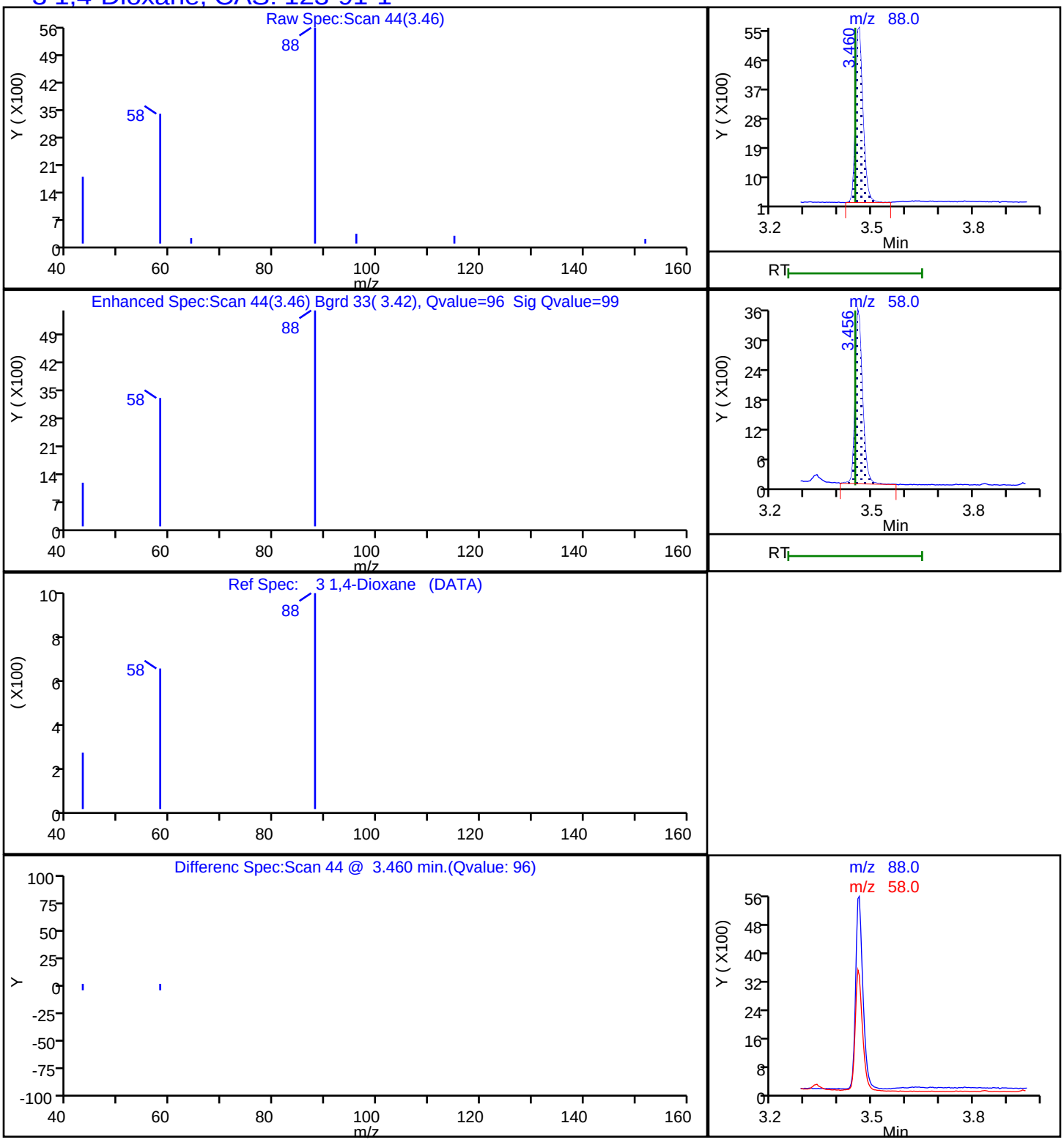
Report Date: 14-Jun-2022 10:58:40 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669871.D

Injection Date:	10-Jun-2022 18:49:30	Instrument ID:	HP5973U
Lims ID:	480-198818-B-3-A	Lab Sample ID:	480-198818-3
Client ID:	MW-2B		
Operator ID:	PJQ	ALS Bottle#:	15 Worklist Smp#: 15
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

3 1,4-Dioxane, CAS: 123-91-1



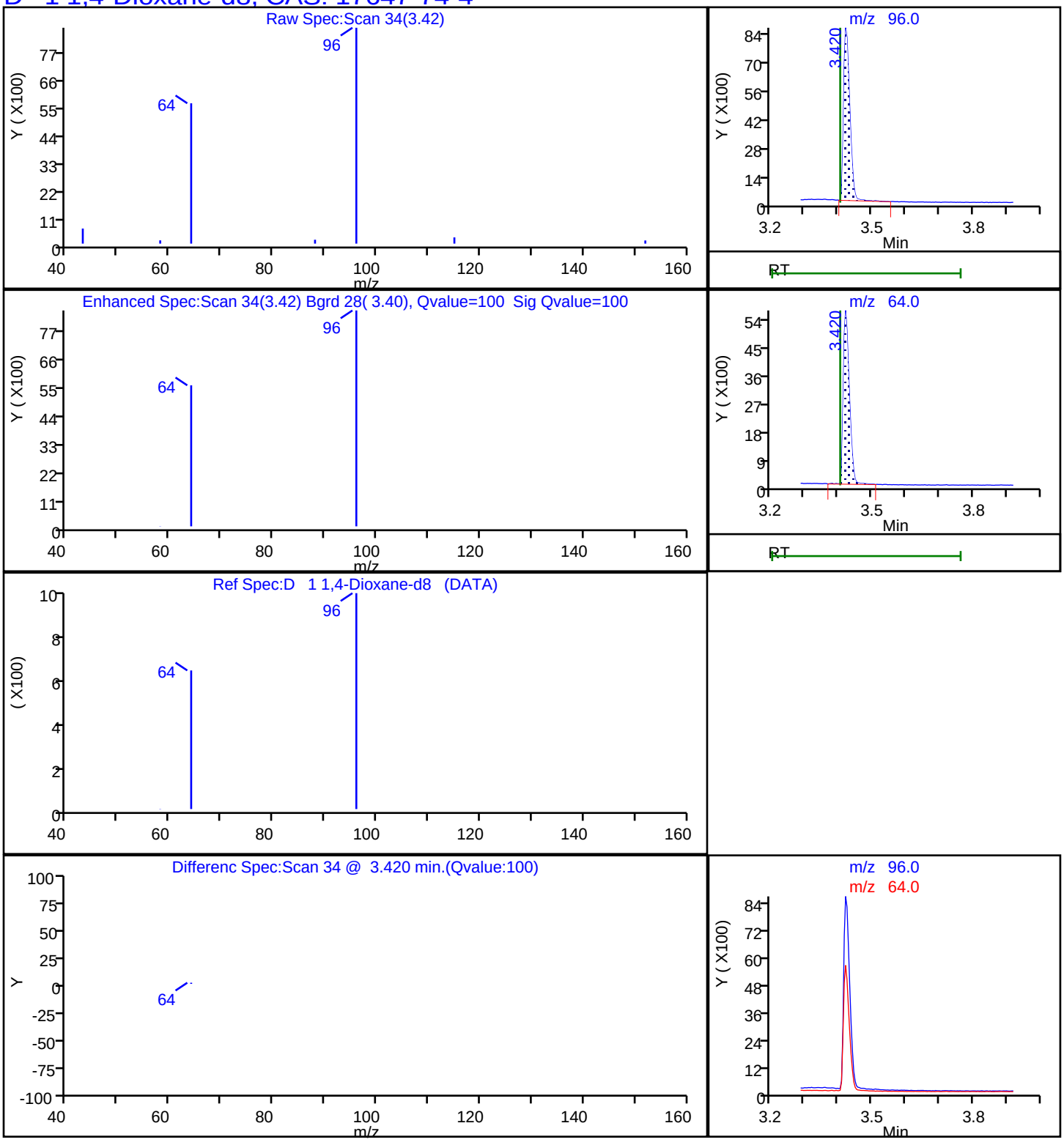
Report Date: 14-Jun-2022 10:58:40 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669871.D

Injection Date:	10-Jun-2022 18:49:30	Instrument ID:	HP5973U
Lims ID:	480-198818-B-3-A	Lab Sample ID:	480-198818-3
Client ID:	MW-2B		
Operator ID:	PJQ	ALS Bottle#:	15 Worklist Smp#: 15
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-6A | Lab Sample ID: 480-198818-4

Matrix: Water | Lab File ID: U331669872.D

Analysis Method: 8270D SIM ID | Date Collected: 06/08/2022 11:55

Extract. Method: 3510C | Date Extracted: 06/09/2022 14:44

Sample wt/vol: 250(mL) | Date Analyzed: 06/10/2022 19:10

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 629619 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
123-91-1	1,4-Dioxane	ND		0.20	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	41		15-110

Report Date: 14-Jun-2022 10:58:54 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669872.D
Lims ID: 480-198818-A-4-A
Client ID: MW-6A
Sample Type: Client
Inject. Date: 10-Jun-2022 19:10:30 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0106015-016
Operator ID: PJQ Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 14-Jun-2022 10:57:15 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1629

First Level Reviewer: quirkp Date: 14-Jun-2022 10:58:54

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D	1 1,4-Dioxane-d8	96	3.407	3.403	0.004	99	119314	2.03	40.6	
	3 1,4-Dioxane	88		3.448				ND		
*	2 1,4-Dichlorobenzene-d4	152	6.304	6.305	-0.001	100	416161	4.00		

QC Flag Legend
Processing Flags

Reagents:
MB_LLIS_WRK_00235 Amount Added: 20.00 Units: uL Run Reagent

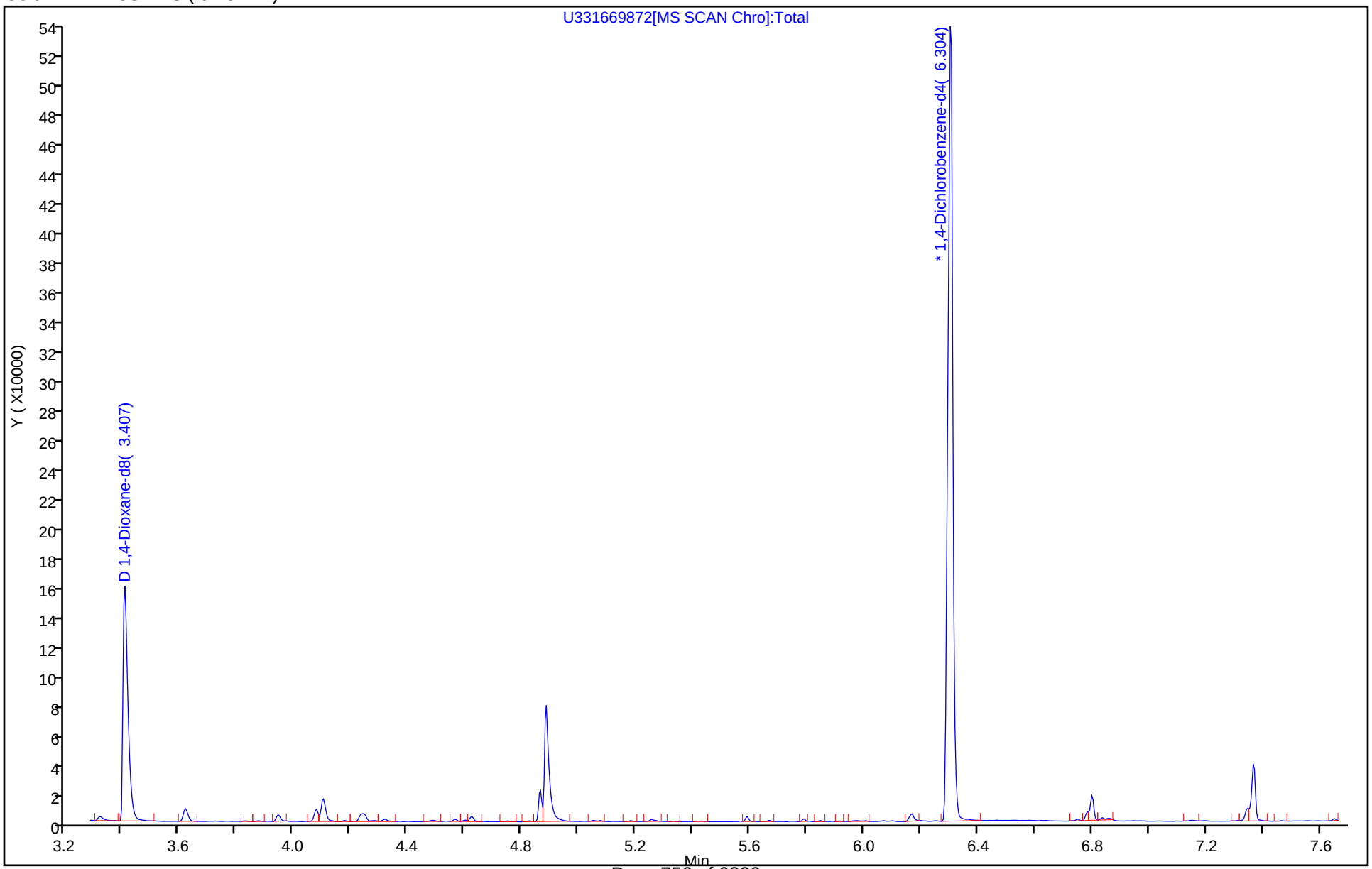
Report Date: 14-Jun-2022 10:58:54 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669872.D

Injection Date:	10-Jun-2022 19:10:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	480-198818-A-4-A	Lab Sample ID:	480-198818-4	Worklist Smp#:	16
Client ID:	MW-6A				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



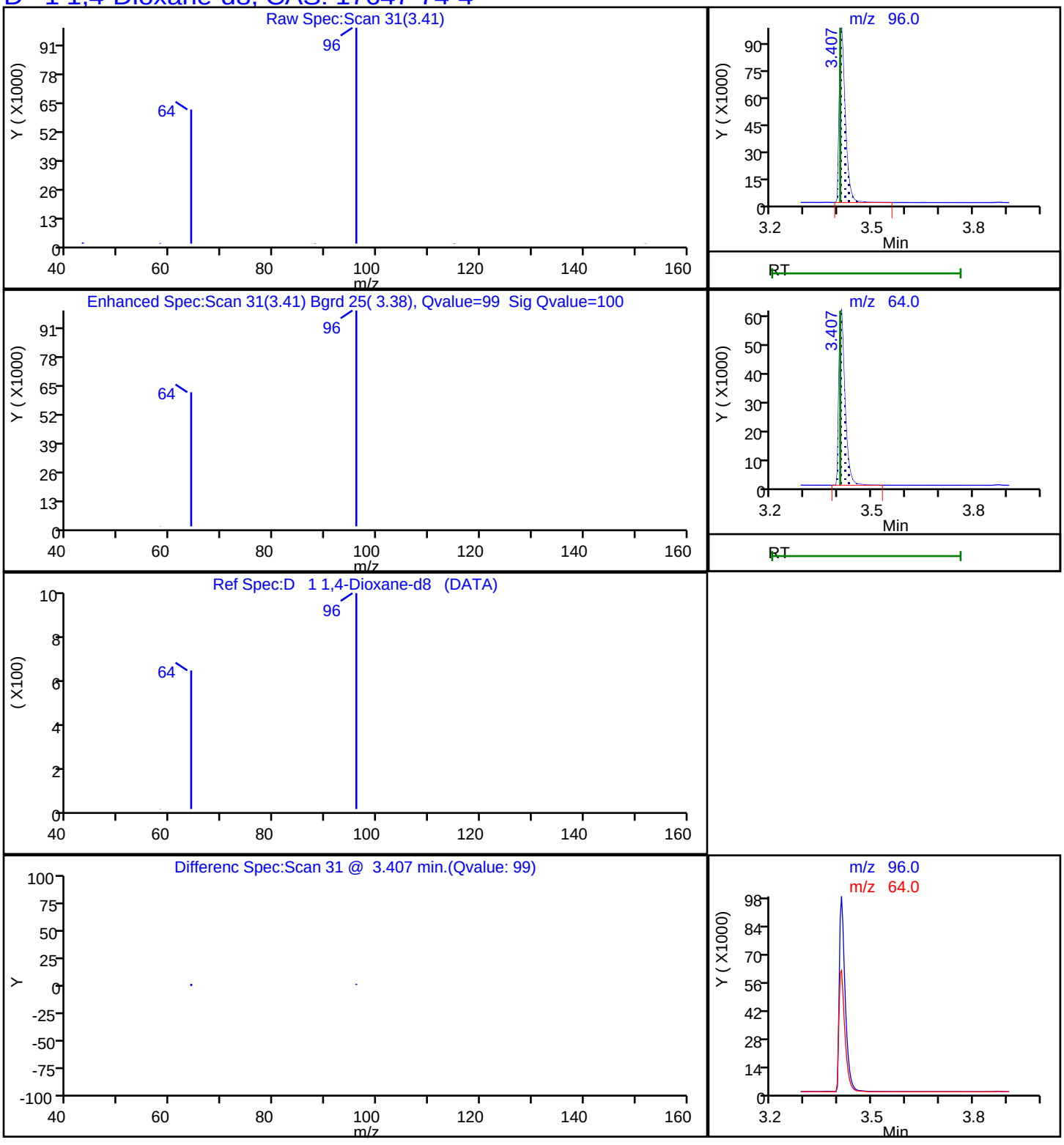
Report Date: 14-Jun-2022 10:58:54 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669872.D

Injection Date:	10-Jun-2022 19:10:30	Instrument ID:	HP5973U		
Lims ID:	480-198818-A-4-A	Lab Sample ID:	480-198818-4		
Client ID:	MW-6A				
Operator ID:	PJQ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-6B | Lab Sample ID: 480-198818-5

Matrix: Water | Lab File ID: U331669873.D

Analysis Method: 8270D SIM ID | Date Collected: 06/08/2022 12:15

Extract. Method: 3510C | Date Extracted: 06/09/2022 14:44

Sample wt/vol: 250(mL) | Date Analyzed: 06/10/2022 19:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: | % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 629619 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
123-91-1	1,4-Dioxane	ND		0.20	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	37		15-110

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669873.D
Lims ID: 480-198818-B-5-A
Client ID: MW-6B
Sample Type: Client
Inject. Date: 10-Jun-2022 19:33:30 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0106015-017
Operator ID: PJQ Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 14-Jun-2022 10:59:22 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1629

First Level Reviewer: quirkp Date: 14-Jun-2022 10:59:22

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D	1 1,4-Dioxane-d8	96	3.407	3.403	0.004	100	113919	1.83	36.5	
	3 1,4-Dioxane	88		3.448				ND		U
*	2 1,4-Dichlorobenzene-d4	152	6.308	6.305	0.003	100	441445	4.00		

QC Flag Legend

Processing Flags
Review Flags
U - Marked Undetected

Reagents:

MB_LLIS_WRK_00235 Amount Added: 20.00 Units: uL Run Reagent

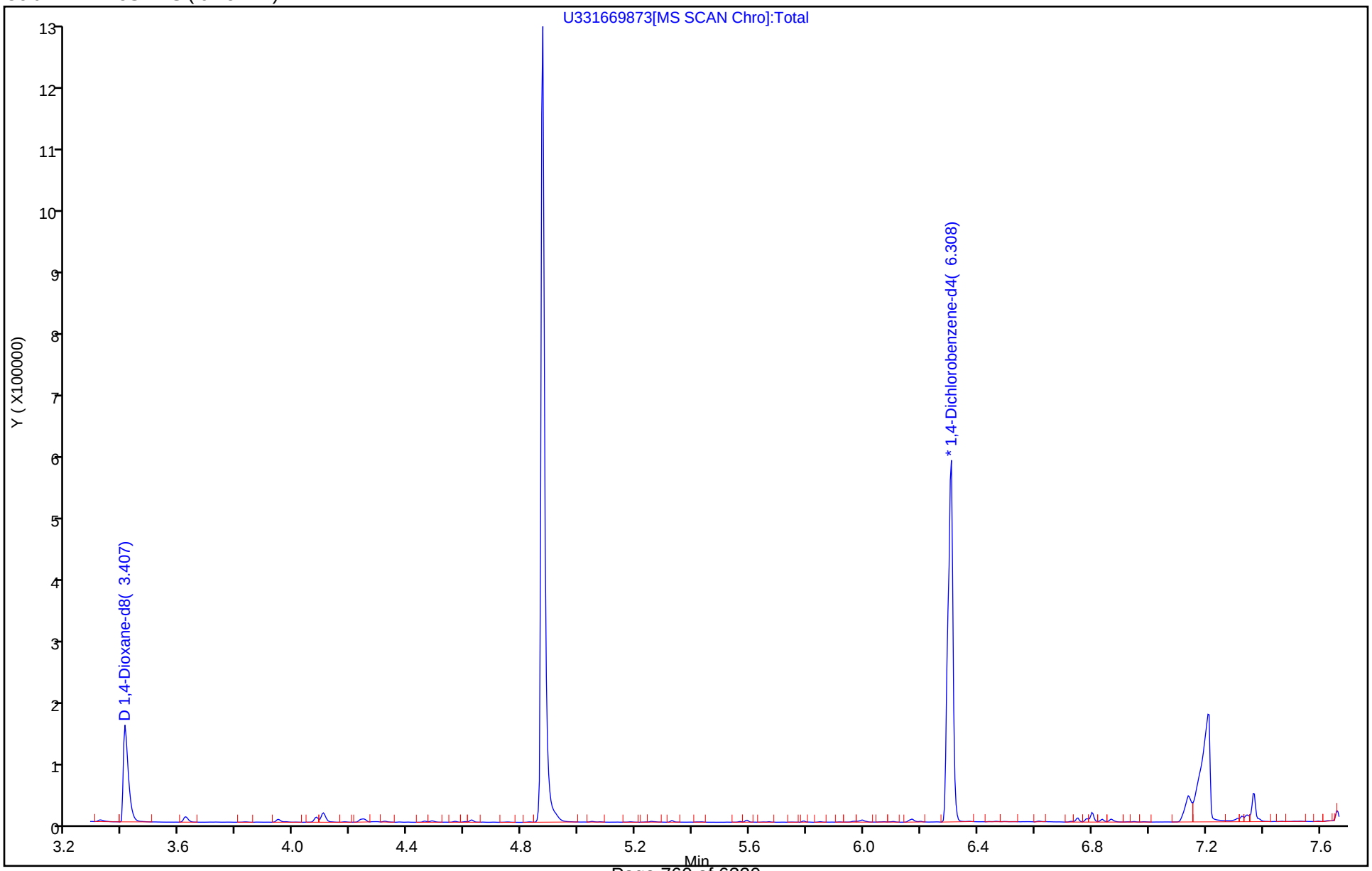
Report Date: 14-Jun-2022 10:59:22 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669873.D

Injection Date:	10-Jun-2022 19:33:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	480-198818-B-5-A	Lab Sample ID:	480-198818-5	Worklist Smp#:	17
Client ID:	MW-6B				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



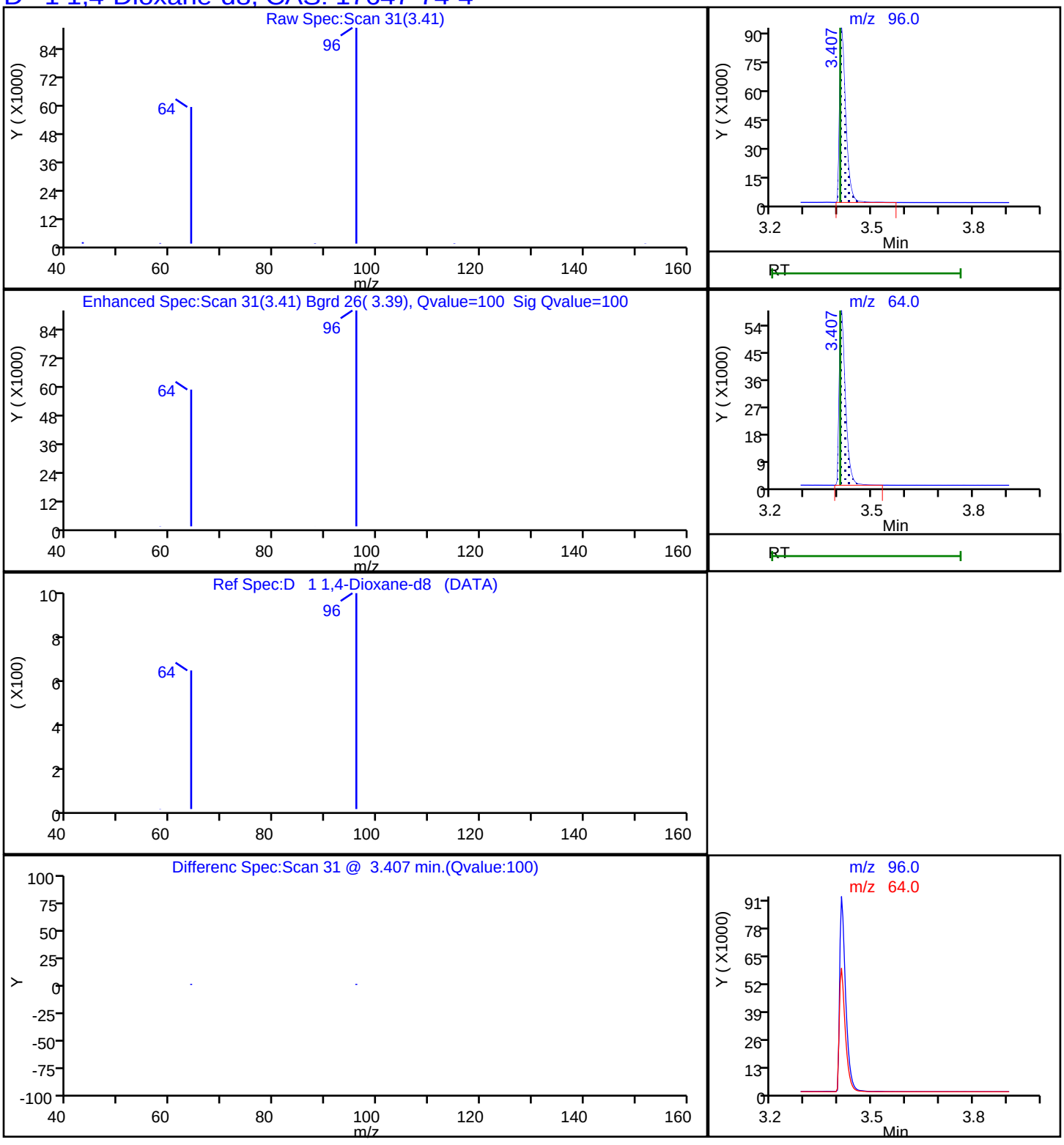
Report Date: 14-Jun-2022 10:59:22 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669873.D

Injection Date:	10-Jun-2022 19:33:30	Instrument ID:	HP5973U		
Lims ID:	480-198818-B-5-A	Lab Sample ID:	480-198818-5		
Client ID:	MW-6B				
Operator ID:	PJQ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



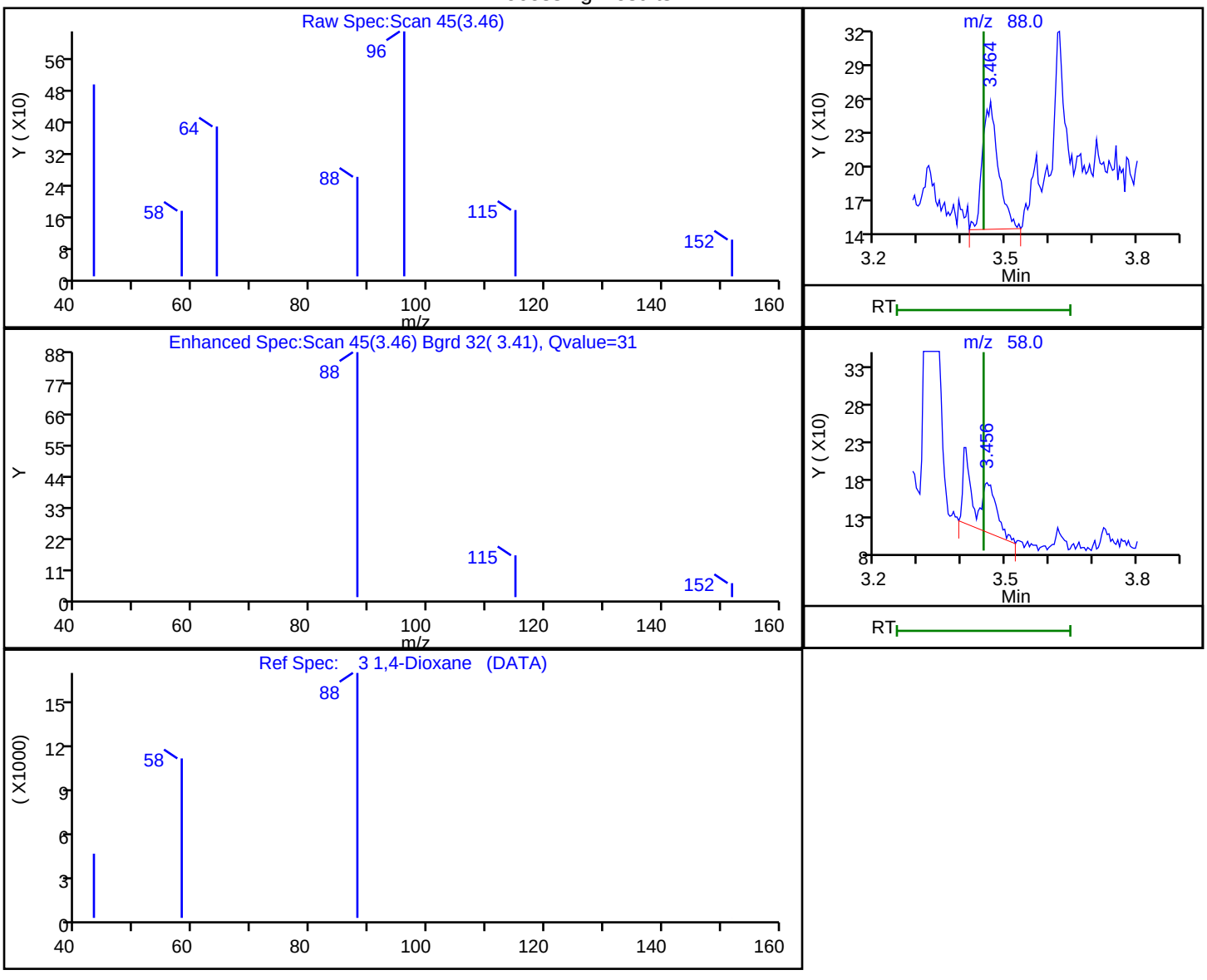
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669873.D				
Injection Date:	10-Jun-2022 19:33:30	Instrument ID:	HP5973U		
Lims ID:	480-198818-B-5-A	Lab Sample ID:	480-198818-5		
Client ID:	MW-6B				
Operator ID:	PJQ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

3 1,4-Dioxane, CAS: 123-91-1

Processing Results



RT	Mass	Response	Amount
3.46	88.00	271	0.011503
3.46	58.00	277	

Reviewer: quirkp, 14-Jun-2022 10:59:10

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

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 620693

SDG No.: 198720

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/06/2022 16:42 Calibration End Date: 04/06/2022 18:32 Calibration ID: 43312

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-620693/3	U33166050.D
Level 2	IC 480-620693/4	U33166051.D
Level 3	IC 480-620693/5	U33166052.D
Level 4	ICIS 480-620693/6	U33166053.D
Level 5	IC 480-620693/7	U33166054.D
Level 6	IC 480-620693/8	U33166055.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	1.0532 1.0193	1.0320	1.0243	1.0385	1.0370	AveID		1.0340			0.0100	1.2		20.0			
1,4-Dioxane-d8	0.5808 0.5138	0.5840	0.5743	0.5691	0.5706	Ave		0.5654			0.0100	4.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 620693

SDG No.: 198720

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/06/2022 16:42 Calibration End Date: 04/06/2022 18:32 Calibration ID: 43312

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-620693/3	U33166050.D
Level 2	IC 480-620693/4	U33166051.D
Level 3	IC 480-620693/5	U33166052.D
Level 4	ICIS 480-620693/6	U33166053.D
Level 5	IC 480-620693/7	U33166054.D
Level 6	IC 480-620693/8	U33166055.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane		AveID	3025 273797	11275	22157	34181	44611	0.0500 5.00	0.200	0.400	0.600	0.800
1,4-Dioxane-d8	DCBd4	Ave	28722 2686089	109253	216308	329142	430209	0.500 50.0	2.00	4.00	6.00	8.00

Curve Type Legend

Ave = Average ISTD
AveID = Average isotope dilution

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-198720-1 Analy Batch No.: 620693

SDG No.: 198720

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/06/2022 16:42 Calibration End Date: 04/06/2022 18:32 Calibration ID: 43312

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-620693/3	U33166050.D
Level 2	IC 480-620693/4	U33166051.D
Level 3	IC 480-620693/5	U33166052.D
Level 4	ICIS 480-620693/6	U33166053.D
Level 5	IC 480-620693/7	U33166054.D
Level 6	IC 480-620693/8	U33166055.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dioxane	1.9	-0.2	-0.9	0.4	0.3	-1.4	30	30	30	30	30	30
1,4-Dioxane-d8	2.7	3.3	1.6	0.7	0.9	-9.1	30	30	30	30	30	30

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166050.D
Lims ID: IC SIM 0.05
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 06-Apr-2022 16:42:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0104766-003
Operator ID: PJQ Instrument ID: HP5973U
Sublist: chrom-1,4_Dx_SIM_HP5973U*sub1

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 07-Apr-2022 11:21:01 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1617

First Level Reviewer: quirkp Date: 07-Apr-2022 11:15:56

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D	1 1,4-Dioxane-d8	96	3.412	3.404	0.008	100	28722	0.5000	0.5136	
	3 1,4-Dioxane	88	3.457	3.445	0.012	100	3025	0.0500	0.0509	
*	2 1,4-Dichlorobenzene-d4	152	6.313	6.313	0.000	100	395630	4.00	4.00	

QC Flag Legend
Processing Flags

Reagents:
MB_1,4SIM_WRK_00129 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00232 Amount Added: 20.00 Units: uL Run Reagent

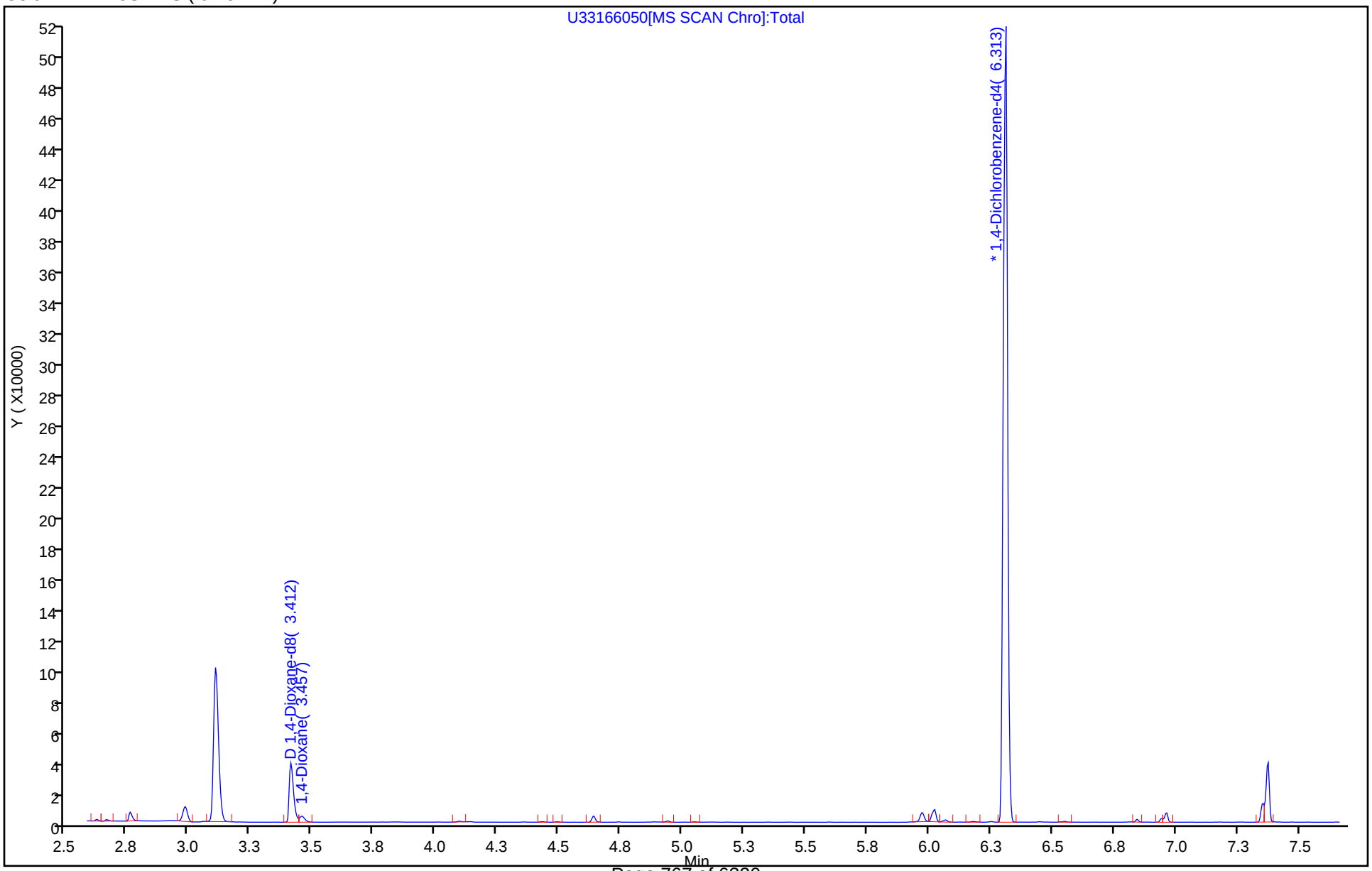
Report Date: 07-Apr-2022 11:21:01 Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166050.D

Injection Date:	06-Apr-2022 16:42:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	IC SIM 0.05			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166051.D
Lims ID: IC SIM 0.2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 06-Apr-2022 17:04:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0104766-004
Operator ID: PJQ Instrument ID: HP5973U
Sublist: chrom-1,4_Dx_SIM_HP5973U*sub1

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 07-Apr-2022 11:21:02 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1617

First Level Reviewer: quirkp Date: 07-Apr-2022 11:16:05

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D	1 1,4-Dioxane-d8	96	3.408	3.404	0.004	99	109253	2.00	2.07	
	3 1,4-Dioxane	88	3.449	3.445	0.004	100	11275	0.2000	0.1996	
*	2 1,4-Dichlorobenzene-d4	152	6.313	6.313	0.000	100	374165	4.00	4.00	

QC Flag Legend
Processing Flags

Reagents:
MB_1,4SIM_WRK_00130 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00232 Amount Added: 20.00 Units: uL Run Reagent

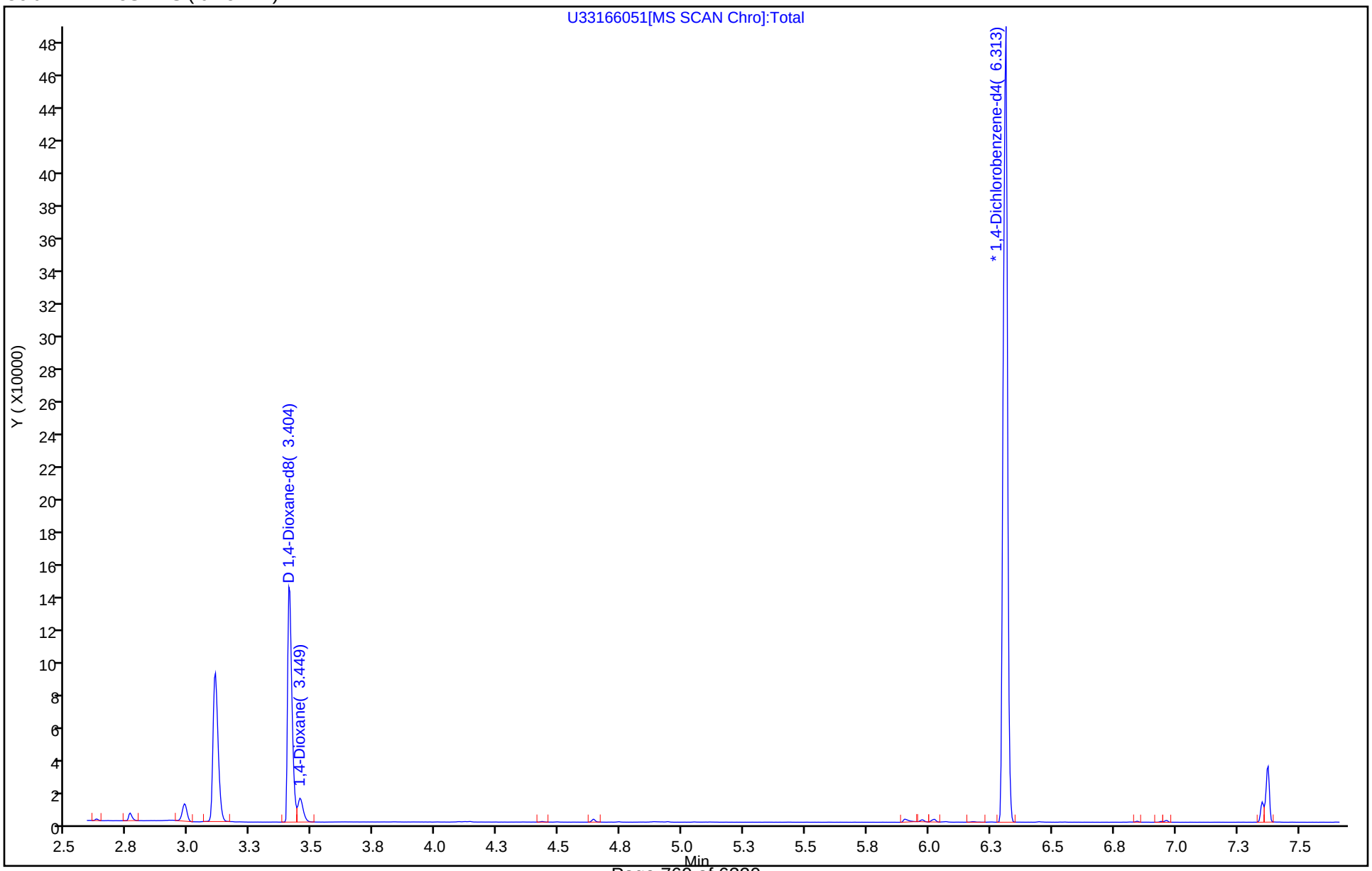
Report Date: 07-Apr-2022 11:21:02 Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166051.D

Injection Date:	06-Apr-2022 17:04:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	IC SIM 0.2			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166052.D
Lims ID: IC SIM 0.4
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 06-Apr-2022 17:26:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0104766-005
Operator ID: PJQ Instrument ID: HP5973U
Sublist: chrom-1,4_Dx_SIM_HP5973U*sub1

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 07-Apr-2022 11:21:02 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1617

First Level Reviewer: quirkp Date: 07-Apr-2022 11:16:14

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D	1 1,4-Dioxane-d8	96	3.404	3.404	0.000	99	216308	4.00	4.06	
	3 1,4-Dioxane	88	3.449	3.449	0.000	99	22157	0.4000	0.3962	
*	2 1,4-Dichlorobenzene-d4	152	6.313	6.313	0.000	100	376664	4.00	4.00	

QC Flag Legend
Processing Flags

Reagents:
MB_1,4SIM_WRK_00131 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00232 Amount Added: 20.00 Units: uL Run Reagent

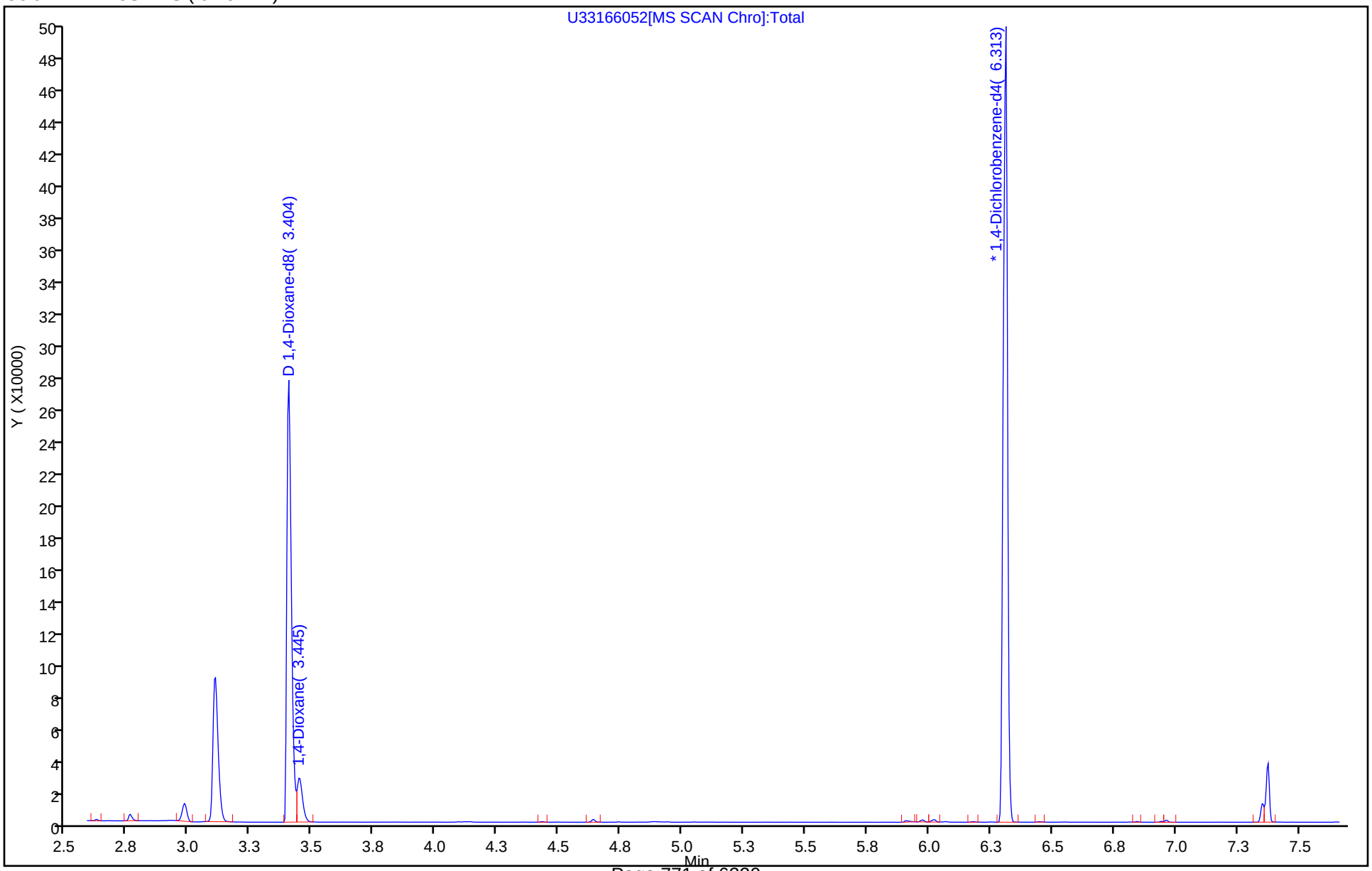
Report Date: 07-Apr-2022 11:21:02 Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166052.D

Injection Date:	06-Apr-2022 17:26:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	IC SIM 0.4			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166053.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 06-Apr-2022 17:48:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0104766-006
Operator ID: PJQ Instrument ID: HP5973U
Sublist: chrom-1,4_Dx_SIM_HP5973U*sub1

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 07-Apr-2022 11:21:03 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1617

First Level Reviewer: quirkp Date: 07-Apr-2022 11:15:41

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D	1 1,4-Dioxane-d8	96	3.404	3.404	0.000	99	329142	6.00	6.04	
	3 1,4-Dioxane	88	3.449	3.449	0.000	99	34181	0.6000	0.6026	
*	2 1,4-Dichlorobenzene-d4	152	6.314	6.314	0.000	100	385552	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_1,4SIM_WRK_00132 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00232 Amount Added: 20.00 Units: uL Run Reagent

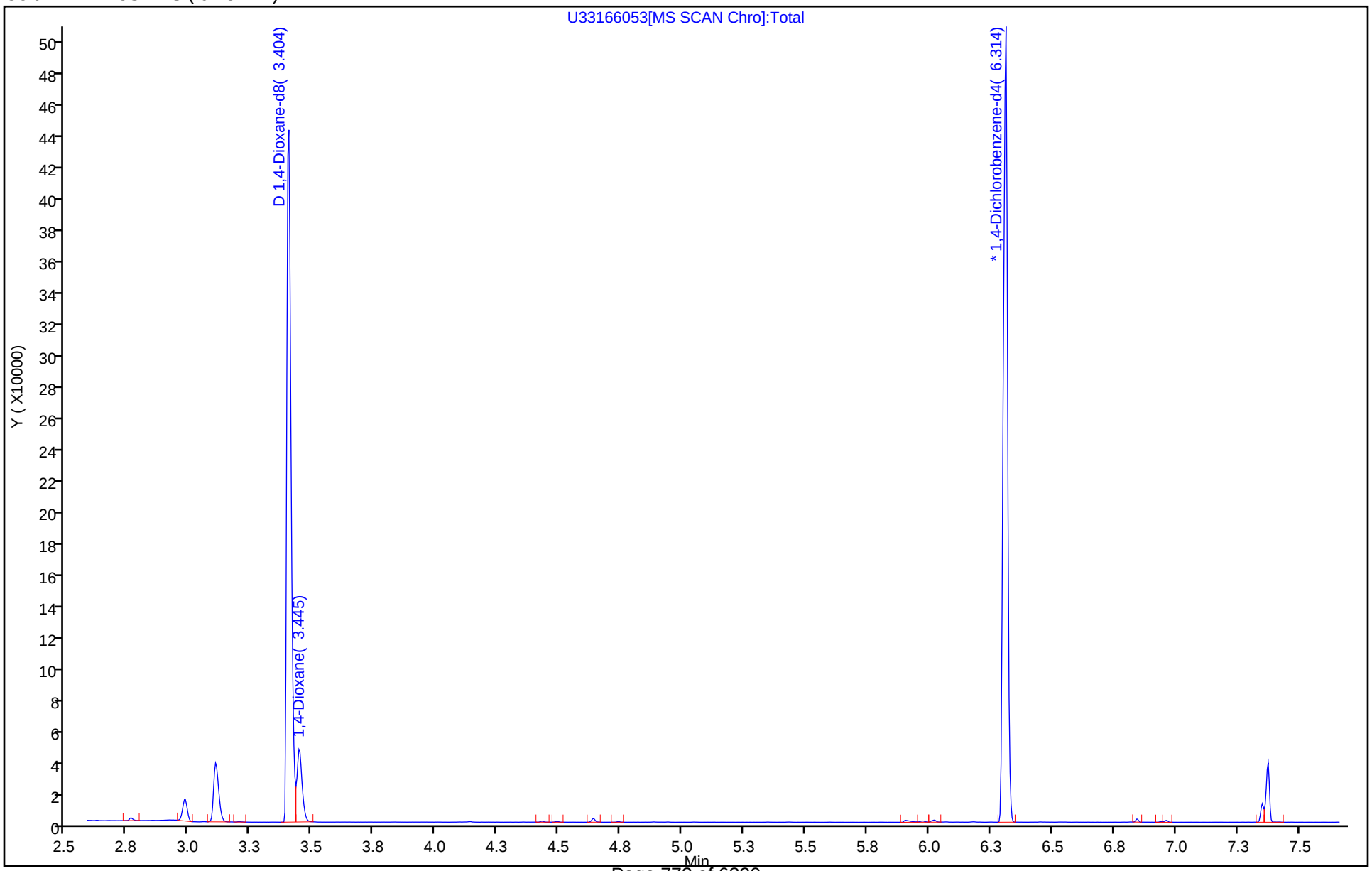
Report Date: 07-Apr-2022 11:21:03 Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166053.D

Injection Date:	06-Apr-2022 17:48:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	ICIS			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166054.D
Lims ID: IC SIM 0.8
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 06-Apr-2022 18:09:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0104766-007
Operator ID: PJQ Instrument ID: HP5973U
Sublist: chrom-1,4_Dx_SIM_HP5973U*sub1

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 07-Apr-2022 11:21:03 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1617

First Level Reviewer: quirkp Date: 07-Apr-2022 11:16:33

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D	1 1,4-Dioxane-d8	96	3.400	3.404	-0.004	100	430209	8.00	8.07	
	3 1,4-Dioxane	88	3.445	3.449	-0.004	99	44611	0.8000	0.8023	
*	2 1,4-Dichlorobenzene-d4	152	6.313	6.314	-0.001	100	376964	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_1,4SIM_WRK_00133 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00232 Amount Added: 20.00 Units: uL Run Reagent

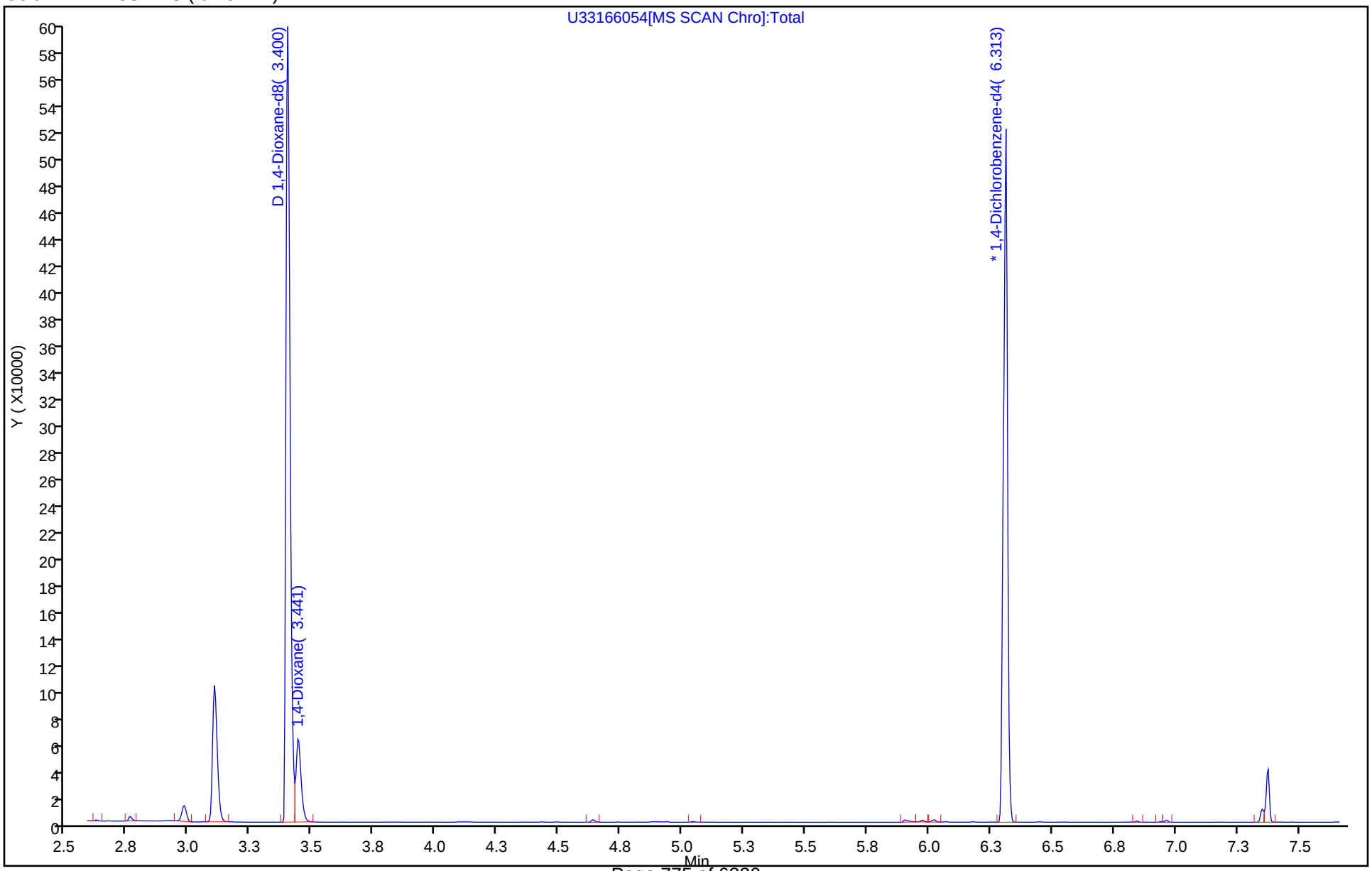
Report Date: 07-Apr-2022 11:21:03 Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166054.D

Injection Date:	06-Apr-2022 18:09:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	IC SIM 0.8			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D
Lims ID: IC SIM 5
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 06-Apr-2022 18:32:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0104766-008
Operator ID: PJQ Instrument ID: HP5973U
Sublist: chrom-1,4_Dx_SIM_HP5973U*sub1

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 07-Apr-2022 11:21:04 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1617

First Level Reviewer: quirkp Date: 07-Apr-2022 11:16:46

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D	1 1,4-Dioxane-d8	96	3.400	3.404	-0.004	100	2686089	50.0	45.4	
	3 1,4-Dioxane	88	3.437	3.449	-0.012	100	273797	5.00	4.93	
*	2 1,4-Dichlorobenzene-d4	152	6.313	6.314	-0.001	100	418271	4.00	4.00	

QC Flag Legend
Processing Flags

Reagents:
MB_1,4SIM_WRK_00134 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00232 Amount Added: 20.00 Units: uL Run Reagent

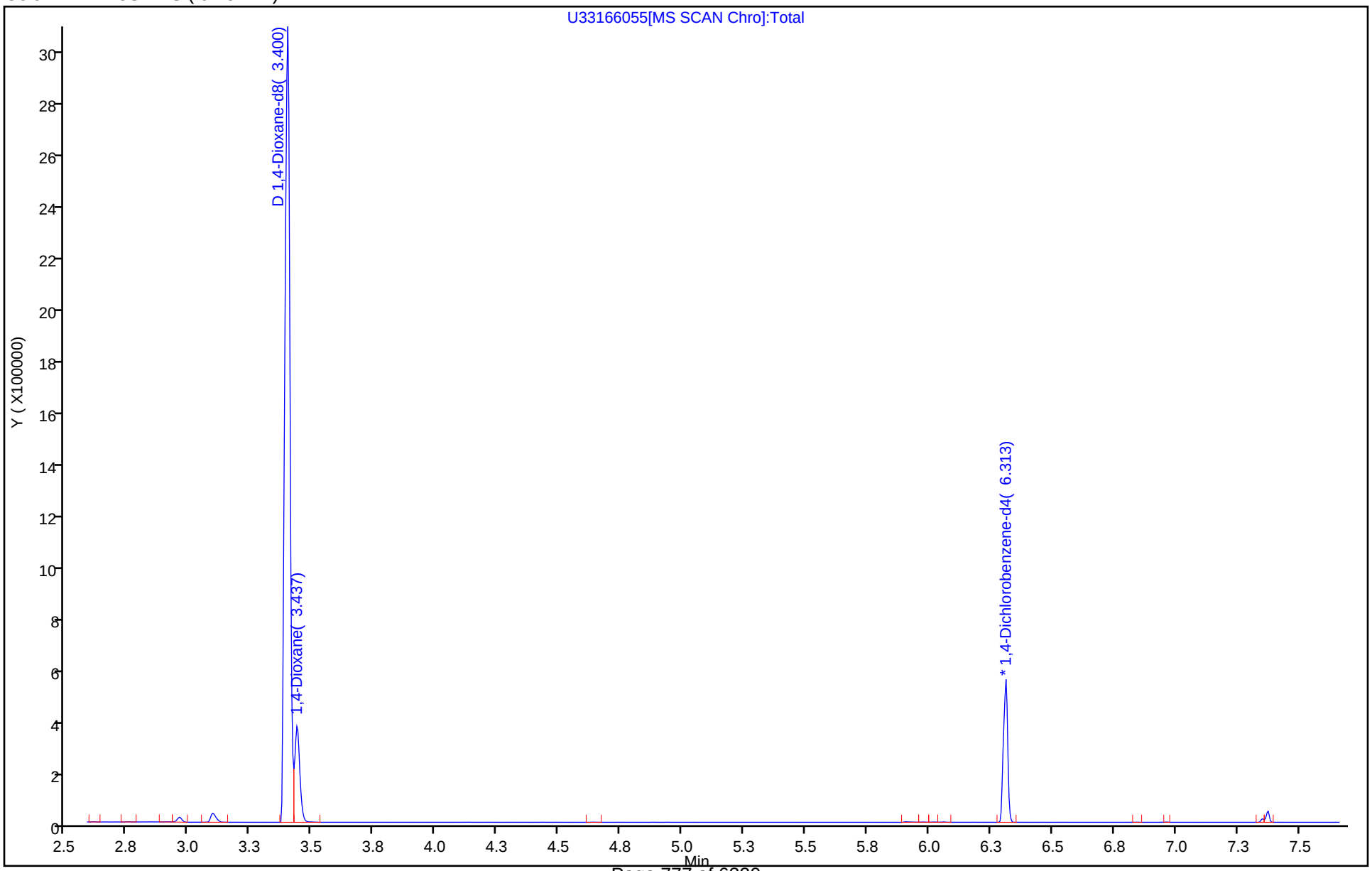
Report Date: 07-Apr-2022 11:21:04 Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Injection Date:	06-Apr-2022 18:32:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	IC SIM 5			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

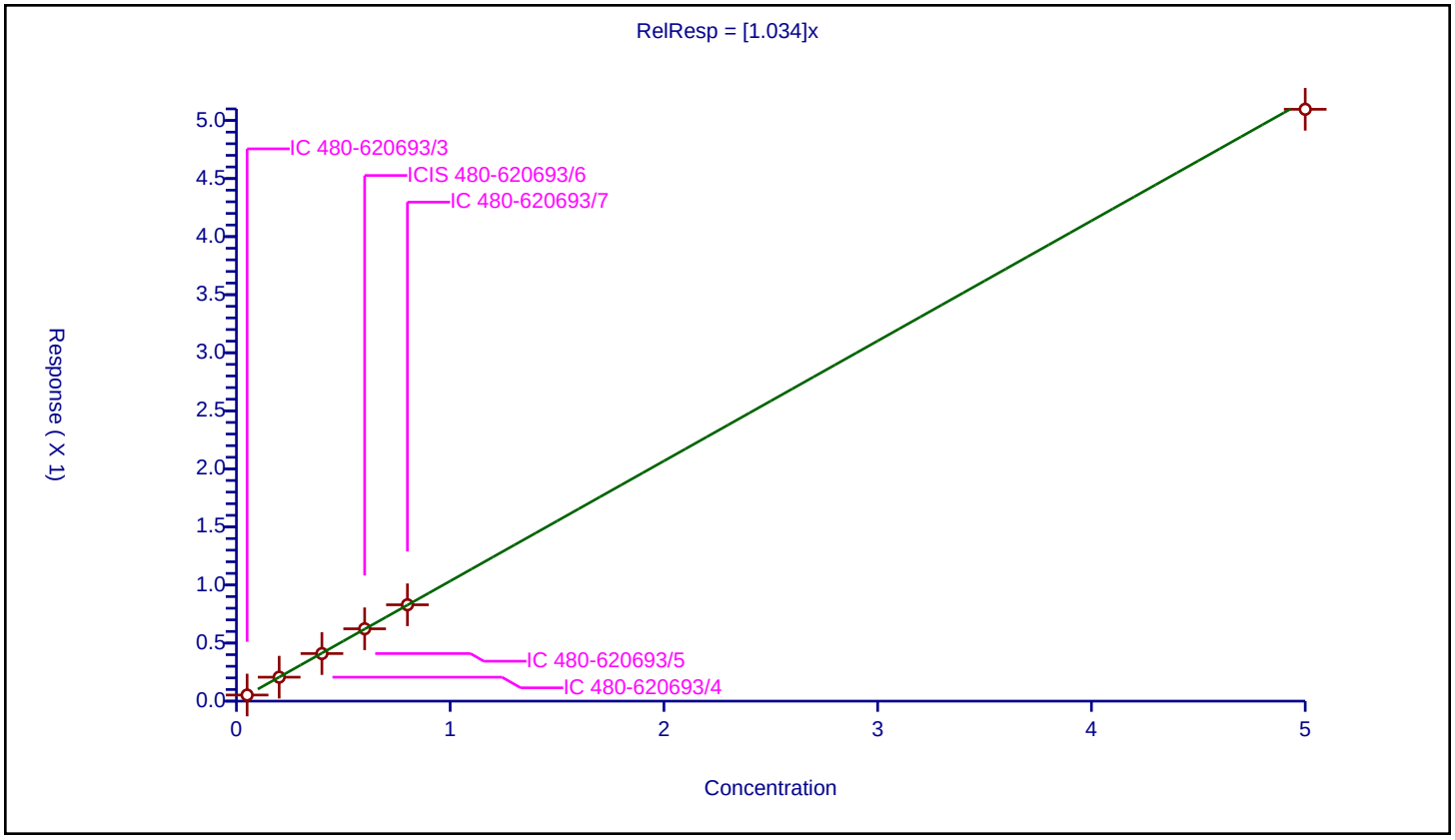
Curve Coefficients

Intercept:	0
Slope:	1.034

Error Coefficients

Standard Error:	125000
Relative Standard Error:	1.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-620693/3	0.05	0.05266	0.5	28722.0	1.0532	Y
2	IC 480-620693/4	0.2	0.206402	2.0	109253.0	1.032008	Y
3	IC 480-620693/5	0.4	0.409731	4.0	216308.0	1.024326	Y
4	ICIS 480-620693/6	0.6	0.623093	6.0	329142.0	1.038488	Y
5	IC 480-620693/7	0.8	0.829569	8.0	430209.0	1.036961	Y
6	IC 480-620693/8	5.0	5.096573	50.0	2686089.0	1.019315	Y



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: ICV 480-620693/9 Calibration Date: 04/06/2022 18:54

Instrument ID: HP5973U Calib Start Date: 04/06/2022 16:42

GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 04/06/2022 18:32

Lab File ID: U33166056.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	AveID	1.034	1.049	0.0100	609	600	1.5	20.0
1,4-Dioxane-d8	Ave	0.5654	0.5534	0.0100	1470	1500	-2.1	20.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166056.D
Lims ID: ICV SIM
Client ID:
Sample Type: ICV
Inject. Date: 06-Apr-2022 18:54:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0104766-009
Operator ID: PJQ Instrument ID: HP5973U
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 07-Apr-2022 11:23:13 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1617

First Level Reviewer: quirkp Date: 07-Apr-2022 11:19:34

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D	1 1,4-Dioxane-d8	96	3.408	3.404	0.004	99	83590	1.50	1.47	
	3 1,4-Dioxane	88	3.445	3.449	-0.004	100	35090	0.6000	0.6089	
*	2 1,4-Dichlorobenzene-d4	152	6.313	6.314	-0.001	100	402759	4.00	4.00	

QC Flag Legend
Processing Flags

Reagents:
MB_SIMSS_WRK_00018 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00232 Amount Added: 20.00 Units: uL Run Reagent

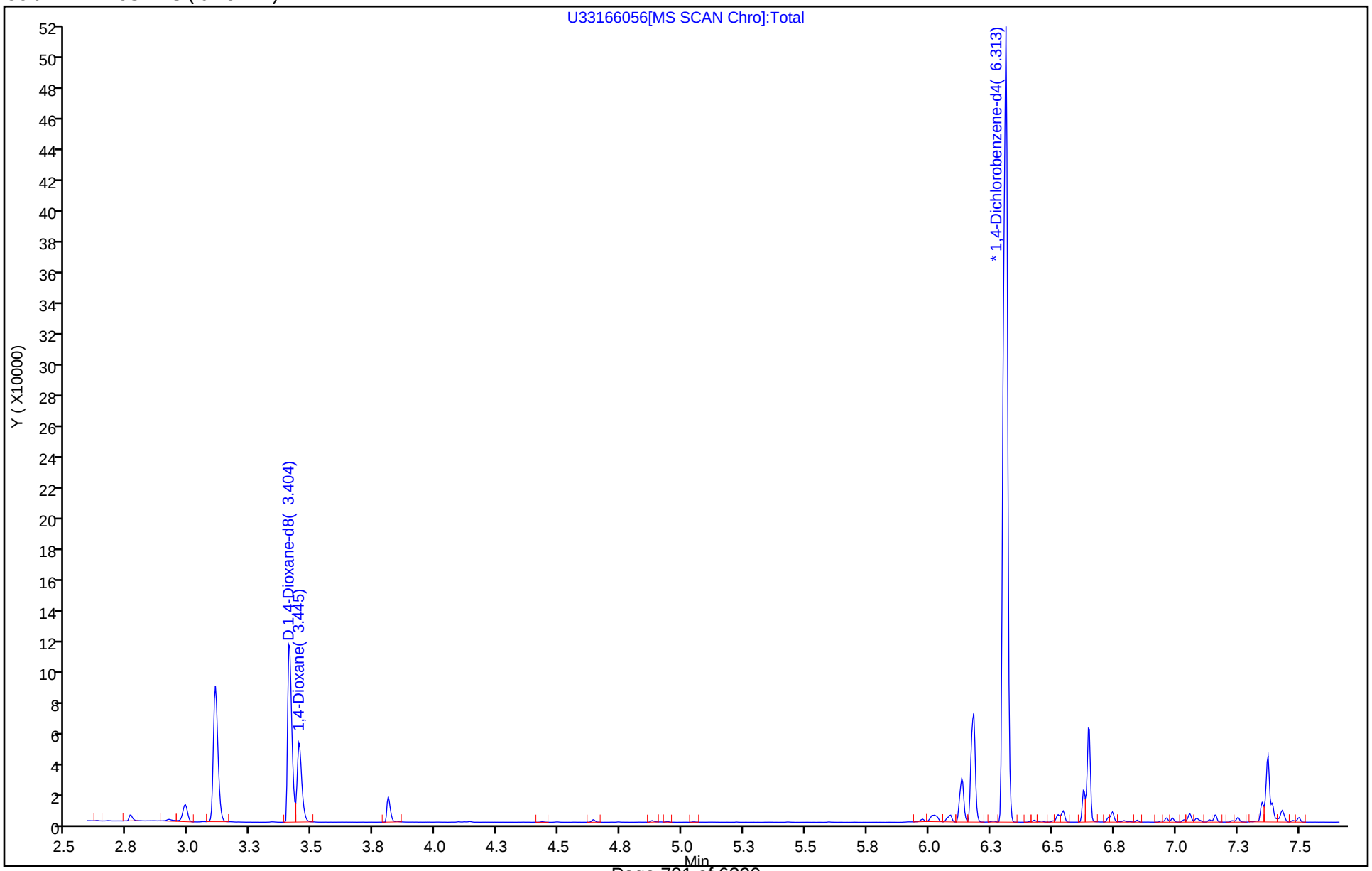
Report Date: 07-Apr-2022 11:23:14 Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166056.D

Injection Date:	06-Apr-2022 18:54:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	ICV SIM			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: CCVIS 480-629253/3 Calibration Date: 06/08/2022 23:18

Instrument ID: HP5973U Calib Start Date: 04/06/2022 16:42

GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 04/06/2022 18:32

Lab File ID: U331669812.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	AveID	1.034	1.092	0.0100	634	600	5.6	20.0
1,4-Dioxane-d8	Ave	0.5654	0.4948	0.0100	5250	6000	-12.5	20.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669812.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 08-Jun-2022 23:18:30 ALS Bottle#: 28 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0105968-003
Operator ID: PJQ Instrument ID: HP5973U
Sublist: chrom-1,4_Dx_SIM_HP5973U*sub1

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 09-Jun-2022 11:16:48 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1675

First Level Reviewer: quirkp Date: 09-Jun-2022 11:16:48

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D	1 1,4-Dioxane-d8	96	3.403	3.403	0.000	98	360796	6.00	5.25	
	3 1,4-Dioxane	88	3.448	3.448	0.000	97	39397	0.6000	0.6336	
*	2 1,4-Dichlorobenzene-d4	152	6.308	6.308	0.000	100	486071	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_1,4SIM_WRK_00136 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00235 Amount Added: 20.00 Units: uL Run Reagent

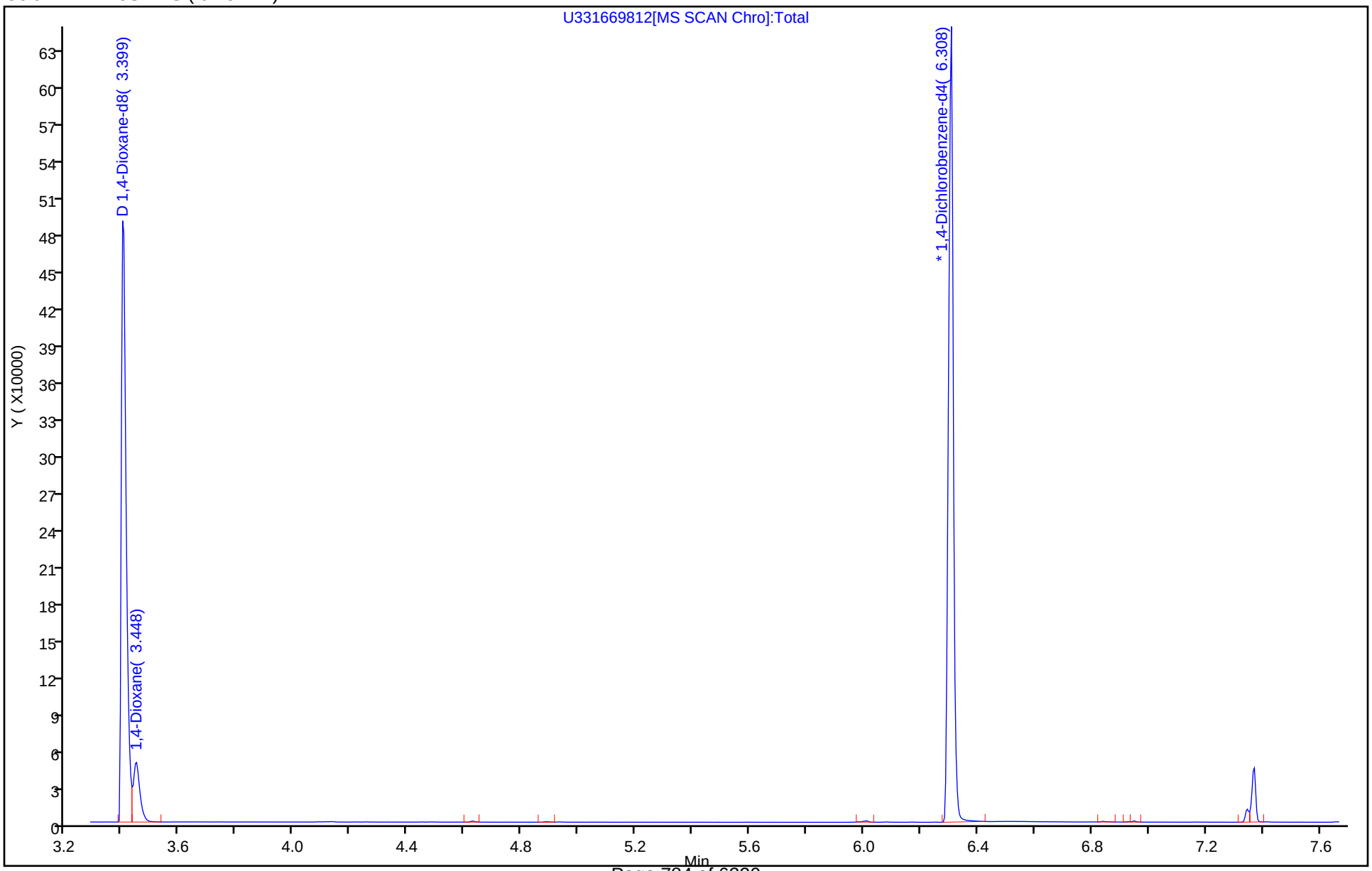
Report Date: 09-Jun-2022 11:16:48 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669812.D

Injection Date:	08-Jun-2022 23:18:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: CCVIS 480-629619/3 Calibration Date: 06/10/2022 14:21

Instrument ID: HP5973U Calib Start Date: 04/06/2022 16:42

GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 04/06/2022 18:32

Lab File ID: U331669859.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	AveID	1.034	1.087	0.0100	631	600	5.2	20.0
1,4-Dioxane-d8	Ave	0.5654	0.5075	0.0100	5380	6000	-10.3	20.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669859.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 10-Jun-2022 14:21:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0106015-003
Operator ID: PJQ Instrument ID: HP5973U
Sublist: chrom-1,4_Dx_SIM_HP5973U*sub1

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 10-Jun-2022 14:35:50 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1626

First Level Reviewer: quirkp Date: 10-Jun-2022 14:35:50

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D	1 1,4-Dioxane-d8	96	3.403	3.403	0.000	99	337502	6.00	5.38	
	3 1,4-Dioxane	88	3.448	3.448	0.000	98	36703	0.6000	0.6310	
*	2 1,4-Dichlorobenzene-d4	152	6.305	6.305	0.000	100	443387	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_1,4SIM_WRK_00136 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00235 Amount Added: 20.00 Units: uL Run Reagent

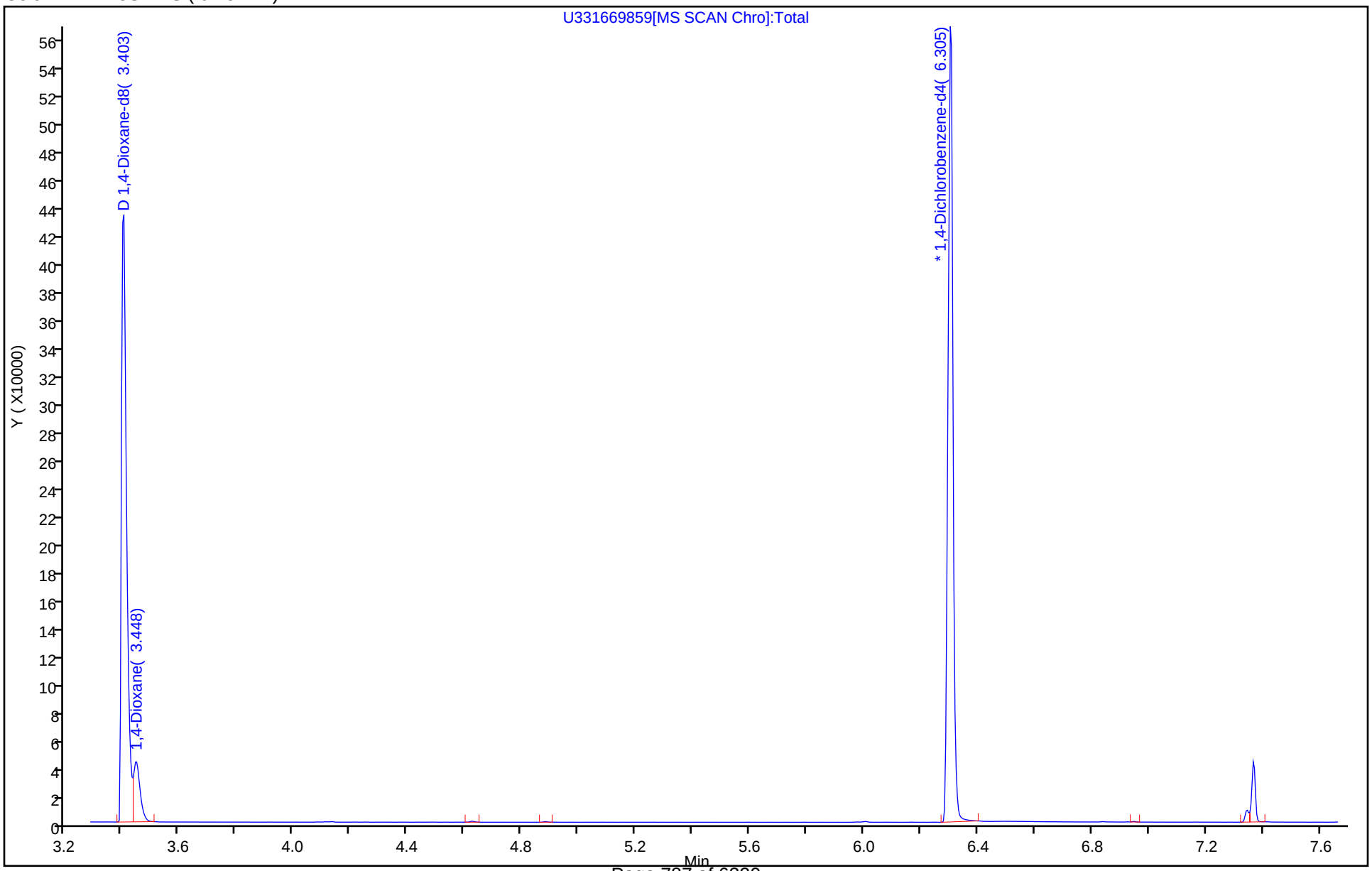
Report Date: 10-Jun-2022 14:35:50 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669859.D

Injection Date:	10-Jun-2022 14:21:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166049.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 06-Apr-2022 16:12:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0104766-002
Operator ID: PJQ Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 07-Apr-2022 11:23:13 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: Deconvolution ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1617

First Level Reviewer: quirkp Date: 06-Apr-2022 16:36:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 DFTPP									
7 4,4'-DDE	246	11.186	11.186	0.000	0	1631		NR	
5 4,4'-DDD	235	11.491	11.491	0.000	98	10697		NR	
6 4,4'-DDT	235	11.790	11.790	0.000	99	2257919	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

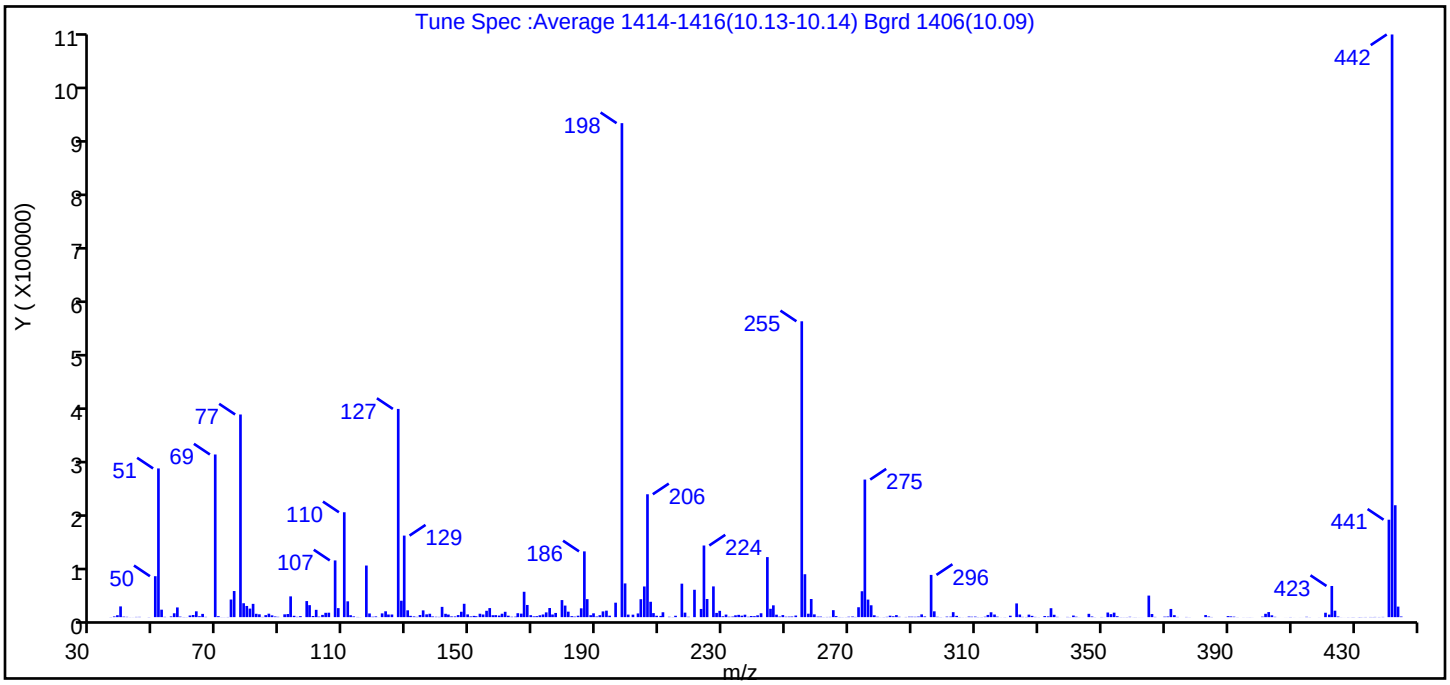
MB_DFTPP_WRK_00404 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166049.D
Injection Date: 06-Apr-2022 16:12:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 1,4_Dx_SIM_HP5973U Limit Group: MB - 8270D SIM ID ICAL
Tune Method: DFTPP Method 8270D, BP 198

4 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (84.8)
51	10-80% of the base peak	30.1
68	<2% of mass 69	0.0 (0.0)
69	Present	32.9
70	<2% of mass 69	0.2 (0.6)
127	10-80% of the base peak	42.2
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.8
275	10-60% of the base peak	27.9
365	>1% of mass 198	4.4
441	present but <24% of mass 442	19.7 (16.7)
442	base peak, or >50% of 198	118.0
443	15-24% of mass 442	22.7 (19.2)

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166049.D\1,4_Dx_SIM_HP5973U.rslt\sp
Injection Date: 06-Apr-2022 16:12:30
Spectrum: Tune Spec :Average 1414-1416(10.13-10.14) Bgrd 1406(10.09)
Base Peak: 442.10
Minimum % Base Peak: 0
Number of Points: 360

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	233	137.00	5827	236.00	2541	330.00	151
37.00	1220	138.00	1212	237.00	4211	332.00	1849
38.00	3300	139.00	702	238.00	658	333.00	1314
39.00	18528	140.00	482	239.00	1997	334.00	15423
40.00	885	141.00	17712	240.00	1683	335.00	4071
41.00	547	142.00	5768	241.00	3139	336.00	504
42.00	137	143.00	4466	242.00	6702	337.00	38
43.00	108	144.00	1276	244.00	103576	339.00	400
44.00	410	145.00	1188	245.00	14423	340.00	178
45.00	468	146.00	3539	246.00	20392	341.00	2773
48.00	240	147.00	9303	247.00	4231	342.00	747
50.00	70624	148.00	23040	248.00	985	343.00	127
51.00	256512	149.00	4732	249.00	3565	344.00	47
52.00	12868	150.00	1247	250.00	733	346.00	5735
53.00	500	151.00	2198	251.00	923	347.00	1122
54.00	46	152.00	1506	252.00	1054	348.00	170
55.00	1225	153.00	5863	253.00	2755	350.00	293
56.00	6663	154.00	4590	255.00	510336	351.00	91
57.00	16744	155.00	10954	256.00	74024	352.00	7970
58.00	885	156.00	15629	257.00	5900	353.00	5197
59.00	259	157.00	3301	258.00	31288	354.00	7727
60.00	184	158.00	3426	259.00	4782	355.00	1523
61.00	2840	159.00	2720	260.00	899	356.00	200
62.00	3697	160.00	5887	261.00	914	357.00	173
63.00	10066	161.00	9238	262.00	190	358.00	228
64.00	1497	162.00	2516	263.00	358	359.00	629
65.00	5617	163.00	718	264.00	447	360.00	119
66.00	465	164.00	897	265.00	12042	361.00	163
69.00	280576	165.00	6795	266.00	1787	362.00	79
70.00	1623	166.00	6077	267.00	282	363.00	43
71.00	173	167.00	43768	268.00	189	365.00	37192
72.00	150	168.00	21008	269.00	164	366.00	5398
73.00	296	169.00	3387	270.00	711	367.00	408

Report Date: 07-Apr-2022 11:23:13 Chrom Revision: 2.3 18-Mar-2022 09:07:22
Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166049.D\1,4_Dx_SIM_HP5973U.rslt\sp
Injection Date: 06-Apr-2022 16:12:30
Spectrum: Tune Spec :Average 1414-1416(10.13-10.14) Bgrd 1406(10.09)
Base Peak: 442.10
Minimum % Base Peak: 0
Number of Points: 360

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	30368	170.00	1309	271.00	1114	370.00	854
75.00	45048	171.00	1683	272.00	360	371.00	1105
77.00	349568	172.00	3229	273.00	17096	372.00	14138
78.00	23984	173.00	4586	274.00	44688	373.00	3370
79.00	19296	174.00	8212	275.00	237312	374.00	393
80.00	14750	175.00	15729	276.00	30280	377.00	344
81.00	22912	176.00	4561	277.00	20488	378.00	148
82.00	5769	177.00	7243	278.00	3215	383.00	3601
83.00	4882	179.00	29432	279.00	725	384.00	1154
84.00	389	180.00	19960	280.00	124	385.00	299
85.00	3427	181.00	9464	281.00	237	390.00	1824
86.00	5961	182.00	1713	282.00	533	391.00	1304
87.00	3068	183.00	912	283.00	2518	392.00	855
88.00	1148	184.00	2489	284.00	1496	393.00	156
89.00	576	185.00	15216	285.00	3505	395.00	110
90.00	54	186.00	113448	286.00	628	396.00	106
91.00	4847	187.00	31056	287.00	36	397.00	153
92.00	5357	188.00	3361	288.00	329	398.00	72
93.00	35840	189.00	6626	289.00	797	401.00	866
94.00	2344	190.00	1084	290.00	749	402.00	5790
95.00	544	191.00	3323	291.00	615	403.00	8752
96.00	1730	192.00	9902	292.00	1022	404.00	3177
98.00	27728	193.00	11178	293.00	4781	405.00	542
99.00	20704	194.00	2543	294.00	1217	406.00	35
100.00	1972	196.00	24936	296.00	72848	408.00	51
101.00	12613	198.00	852096	297.00	10035	409.00	40
102.00	842	199.00	58168	298.00	645	410.00	263
103.00	3858	200.00	4391	299.00	222	411.00	43
104.00	7474	202.00	4264	300.00	52	413.00	61
105.00	7649	203.00	6408	301.00	910	414.00	34
107.00	97840	204.00	30928	302.00	892	415.00	591
108.00	15554	205.00	52904	303.00	8605	416.00	168
110.00	180928	206.00	211968	304.00	2201	419.00	99
111.00	27296	207.00	26520	305.00	279	421.00	7583

Report Date: 07-Apr-2022 11:23:13 Chrom Revision: 2.3 18-Mar-2022 09:07:22
Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166049.D\1,4_Dx_SIM_HP5973U.rslt\sp
Injection Date: 06-Apr-2022 16:12:30
Spectrum: Tune Spec :Average 1414-1416(10.13-10.14) Bgrd 1406(10.09)
Base Peak: 442.10
Minimum % Base Peak: 0
Number of Points: 360

m/z	Y	m/z	Y	m/z	Y	m/z	Y
112.00	3337	208.00	6952	306.00	108	422.00	4385
113.00	1276	209.00	2402	307.00	77	423.00	53752
114.00	333	210.00	2100	308.00	1016	424.00	11121
115.00	160	211.00	8438	309.00	742	425.00	1073
117.00	89024	213.00	688	310.00	931	426.00	126
118.00	6353	214.00	187	311.00	264	427.00	58
119.00	744	215.00	2392	312.00	244	428.00	178
120.00	1262	217.00	57760	313.00	739	429.00	155
121.00	82	218.00	7770	314.00	3808	430.00	182
122.00	6518	219.00	675	315.00	8414	432.00	171
123.00	10094	221.00	47216	316.00	4498	432.00	220
124.00	4530	223.00	14116	317.00	887	433.00	137
125.00	4536	224.00	123592	318.00	90	434.00	288
127.00	359168	225.00	31312	319.00	156	435.00	308
128.00	28320	227.00	53032	320.00	64	436.00	209
129.00	140672	228.00	7307	321.00	2482	437.00	370
130.00	11786	229.00	10890	323.00	23672	438.00	278
131.00	2295	230.00	1481	324.00	4489	439.00	395
132.00	1254	231.00	4414	325.00	479	441.00	168064
133.00	492	232.00	748	326.00	287	442.00	1005056
134.00	3650	233.00	1012	327.00	4338	443.00	193024
135.00	11674	234.00	3134	328.00	2191	444.00	18160
136.00	4841	235.00	3952	329.00	434	445.00	1093

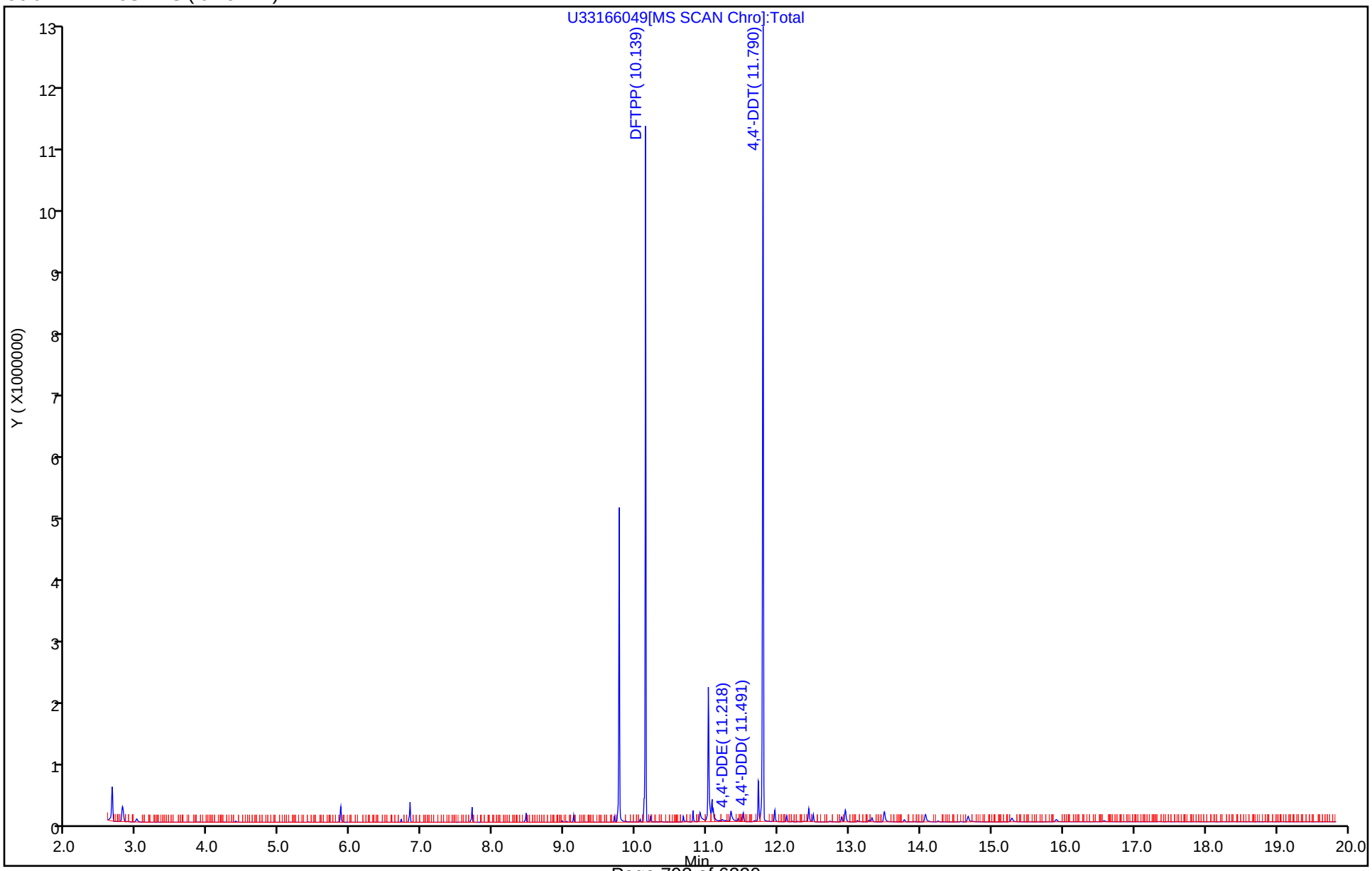
Report Date: 07-Apr-2022 11:23:13 Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166049.D

Injection Date:	06-Apr-2022 16:12:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	DFTPP			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



Breakdown Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166049.D
Injection Date: 06-Apr-2022 16:12:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 1,4_Dx_SIM_HP5973U Limit Group: MB - 8270D SIM ID ICAL

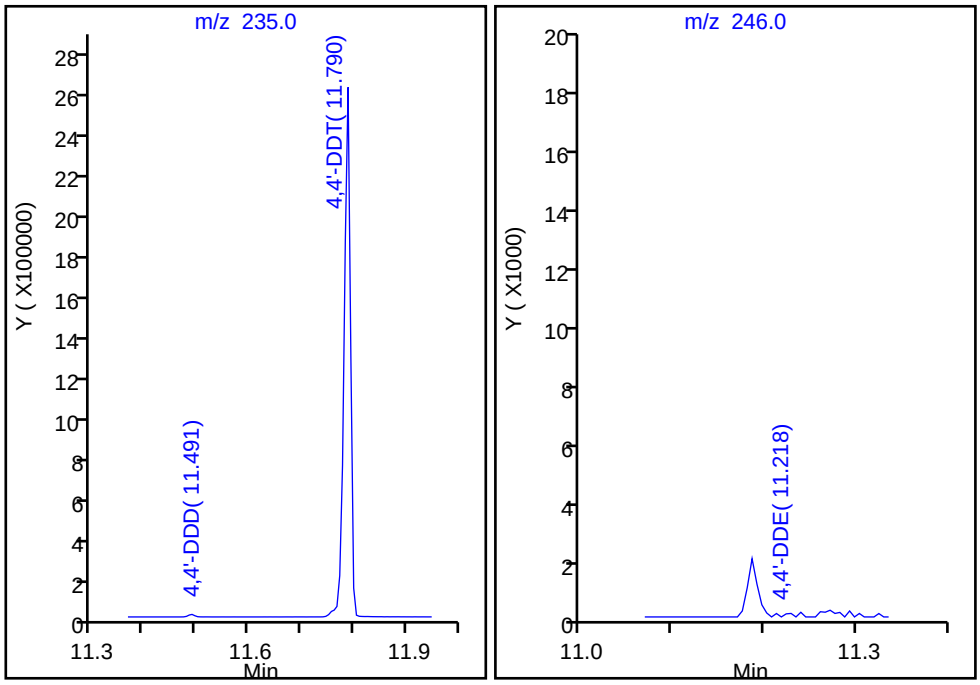
6 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

6 4,4'-DDT, Area = 2257919
5 4,4'-DDD, Area = 10697
7 4,4'-DDE, Area = 1631

%Breakdown: 0.54%, <= 20.00%
Passed



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669811.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 08-Jun-2022 22:46:30 ALS Bottle#: 27 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0105968-002
Operator ID: PJQ Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 09-Jun-2022 11:15:07 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: Deconvolution ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1675

First Level Reviewer: quirkp Date: 09-Jun-2022 11:15:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 DFTPP									
7 4,4'-DDE	246	11.176	11.176	0.000	0	4694		NR	
5 4,4'-DDD	235	11.475	11.475	0.000	97	55978		NR	
6 4,4'-DDT	235	11.774	11.774	0.000	99	2311240	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

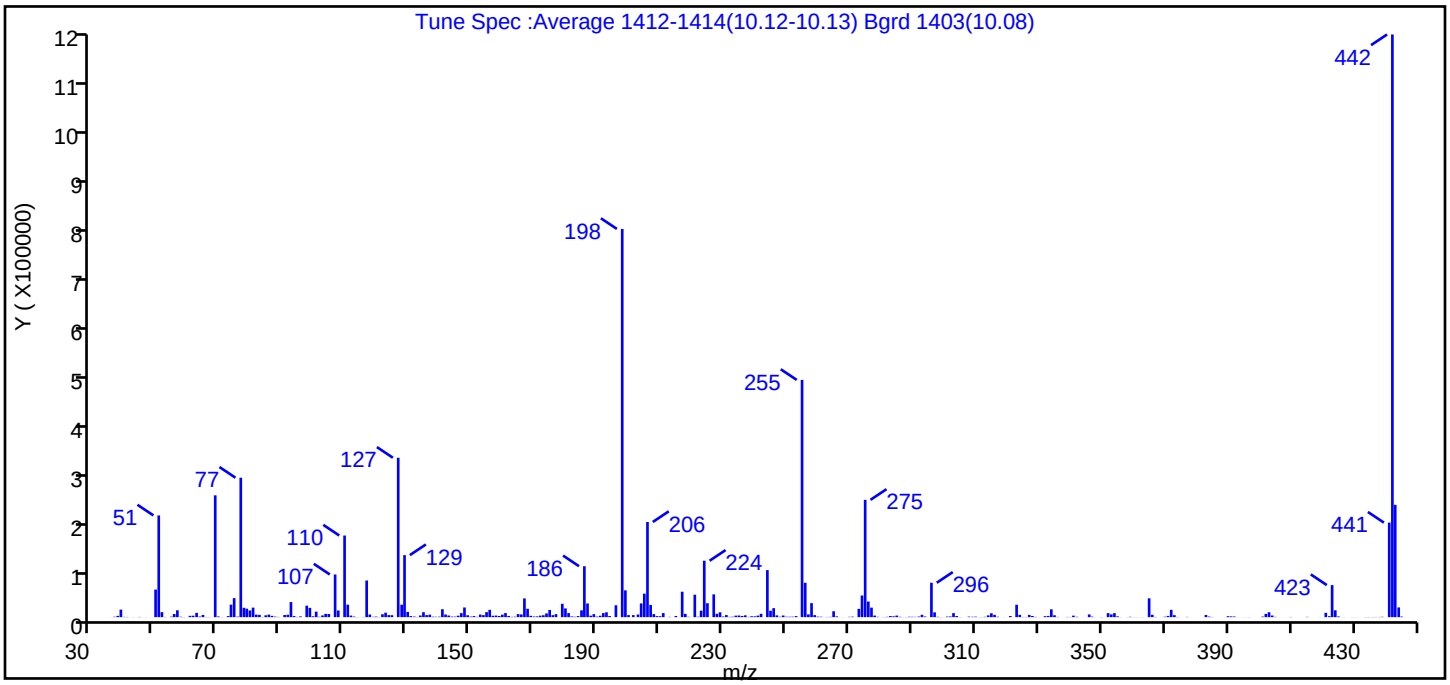
MB_DFTPP_WRK_00409 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669811.D
Injection Date: 08-Jun-2022 22:46:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 27 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 1,4_Dx_SIM_HP5973U Limit Group: MB - 8270D SIM ID ICAL
Tune Method: DFTPP Method 8270D, BP 198

4 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (66.6)
51	10-80% of the base peak	26.2
68	<2% of mass 69	0.0 (0.0)
69	Present	31.4
70	<2% of mass 69	0.2 (0.6)
127	10-80% of the base peak	41.1
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.9
275	10-60% of the base peak	30.2
365	>1% of mass 198	4.8
441	present but <24% of mass 442	24.3 (16.2)
442	base peak, or >50% of 198	150.1
443	15-24% of mass 442	28.9 (19.3)

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669811.D\1,4_Dx_SIM_HP5973U.rslt\s
Injection Date: 08-Jun-2022 22:46:30
Spectrum: Tune Spec :Average 1412-1414(10.12-10.13) Bgrd 1403(10.08)
Base Peak: 442.20
Minimum % Base Peak: 0
Number of Points: 367

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	49	136.00	3997	236.00	2263	334.00	15402
36.00	93	137.00	4908	237.00	3538	335.00	3692
37.00	748	138.00	886	238.00	528	336.00	474
38.00	2532	139.00	696	239.00	1759	337.00	56
39.00	14841	140.00	943	240.00	1570	339.00	414
40.00	550	141.00	15615	241.00	2974	340.00	362
41.00	433	142.00	5185	242.00	6599	341.00	2950
43.00	223	143.00	3149	244.00	92448	342.00	695
44.00	43	144.00	1103	245.00	12562	343.00	66
45.00	415	145.00	992	246.00	17688	344.00	39
46.00	72	146.00	2867	247.00	3448	345.00	34
47.00	152	147.00	7880	248.00	764	346.00	5301
48.00	84	148.00	19008	249.00	3215	347.00	1007
50.00	54192	149.00	3722	250.00	836	348.00	126
51.00	199936	150.00	1117	251.00	811	349.00	40
52.00	9821	151.00	2086	252.00	875	350.00	290
53.00	461	152.00	590	253.00	2146	352.00	7881
55.00	969	153.00	5063	255.00	466304	353.00	5433
56.00	6167	154.00	3913	256.00	67552	354.00	7897
57.00	13505	155.00	9855	257.00	5370	355.00	1536
58.00	787	156.00	14433	258.00	27560	356.00	150
59.00	254	157.00	2774	259.00	3990	357.00	18
60.00	31	158.00	3066	260.00	1031	358.00	185
61.00	2587	159.00	2309	261.00	806	359.00	715
62.00	2847	160.00	4913	262.00	172	360.00	169
63.00	8397	161.00	8019	263.00	364	361.00	175
64.00	1138	162.00	2332	264.00	600	362.00	86
65.00	4297	163.00	600	265.00	11563	363.00	207
66.00	386	164.00	908	266.00	1479	365.00	37008
67.00	213	165.00	5990	267.00	110	366.00	4647
69.00	239424	166.00	5298	268.00	133	367.00	425
70.00	1356	167.00	36856	269.00	107	369.00	76
71.00	210	168.00	16480	270.00	619	370.00	851

Report Date: 09-Jun-2022 11:15:07 Chrom Revision: 2.3 18-May-2022 20:00:04
Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669811.D\1,4_Dx_SIM_HP5973U.rslt\s
Injection Date: 08-Jun-2022 22:46:30
Spectrum: Tune Spec :Average 1412-1414(10.12-10.13) Bgrd 1403(10.08)
Base Peak: 442.20
Minimum % Base Peak: 0
Number of Points: 367

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	113	169.00	2659	271.00	971	371.00	2423
73.00	2069	170.00	1212	273.00	16252	372.00	14418
74.00	24624	171.00	1462	274.00	42528	373.00	3892
75.00	37400	172.00	2970	275.00	230592	374.00	378
76.00	1003	173.00	3730	276.00	30688	375.00	37
77.00	274112	174.00	7346	277.00	18672	377.00	460
78.00	18376	175.00	14044	278.00	3073	378.00	59
79.00	16600	176.00	3877	279.00	645	382.00	34
80.00	13093	177.00	5901	280.00	105	383.00	4189
81.00	18728	179.00	26200	281.00	310	384.00	1145
82.00	4961	180.00	17160	282.00	629	385.00	371
83.00	4517	181.00	7997	283.00	2185	386.00	42
84.00	380	182.00	1346	284.00	1585	389.00	95
85.00	3587	183.00	801	285.00	3089	390.00	1888
86.00	5029	184.00	2150	286.00	731	391.00	1502
87.00	2502	185.00	13379	287.00	143	392.00	1200
88.00	996	186.00	100096	288.00	293	393.00	98
89.00	448	187.00	26872	289.00	831	394.00	38
91.00	4161	188.00	2846	290.00	690	395.00	161
92.00	4737	189.00	5899	291.00	500	396.00	103
93.00	29640	190.00	1090	292.00	1154	397.00	244
94.00	2113	191.00	2724	293.00	4598	401.00	1076
95.00	449	192.00	7937	294.00	1207	402.00	6361
96.00	1482	193.00	9601	296.00	67616	403.00	9582
98.00	22568	194.00	2202	297.00	9405	404.00	3181
99.00	18256	196.00	23392	298.00	692	405.00	540
100.00	1677	198.00	763072	299.00	259	406.00	51
101.00	10834	199.00	52664	300.00	119	408.00	40
102.00	683	200.00	4005	301.00	1091	409.00	61
103.00	3329	202.00	4025	302.00	1318	410.00	393
104.00	6437	203.00	5172	303.00	7928	411.00	33
105.00	6160	204.00	27016	304.00	2193	415.00	558
107.00	83880	205.00	46192	305.00	302	416.00	54
108.00	13035	206.00	187072	306.00	39	419.00	154

Report Date: 09-Jun-2022 11:15:07 Chrom Revision: 2.3 18-May-2022 20:00:04
Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669811.D\1,4_Dx_SIM_HP5973U.rslt\s
Injection Date: 08-Jun-2022 22:46:30
Spectrum: Tune Spec :Average 1412-1414(10.12-10.13) Bgrd 1403(10.08)
Base Peak: 442.20
Minimum % Base Peak: 0
Number of Points: 367

m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.00	160448	207.00	23984	307.00	37	421.00	8478
111.00	24576	208.00	5926	308.00	1043	422.00	1909
112.00	3056	209.00	2011	309.00	714	423.00	63032
113.00	1106	210.00	1836	310.00	980	424.00	13454
114.00	264	211.00	7989	311.00	215	425.00	1390
115.00	51	213.00	578	312.00	217	426.00	93
116.00	358	214.00	64	313.00	640	427.00	125
117.00	72008	215.00	2289	314.00	3490	430.00	184
118.00	5178	217.00	49928	315.00	7637	430.00	45
119.00	612	218.00	6465	316.00	4518	431.00	124
120.00	1073	219.00	670	317.00	829	432.00	102
121.00	269	221.00	44152	318.00	42	434.00	190
122.00	5710	222.00	866	319.00	139	434.00	208
123.00	8780	223.00	12707	321.00	2249	435.00	241
124.00	4004	224.00	110864	323.00	24360	436.00	318
125.00	3823	225.00	27384	324.00	4588	437.00	363
127.00	313344	227.00	44800	325.00	394	438.00	407
128.00	24472	228.00	6572	326.00	371	439.00	680
129.00	121928	229.00	9500	327.00	4376	441.00	185792
130.00	10363	230.00	1204	328.00	2271	442.00	1145344
131.00	2113	231.00	4043	329.00	519	443.00	220736
132.00	1099	232.00	571	330.00	119	444.00	19088
133.00	369	233.00	887	331.00	39	445.00	1136
134.00	3239	234.00	2945	332.00	1889	446.00	77
135.00	9770	235.00	3200	333.00	2431		

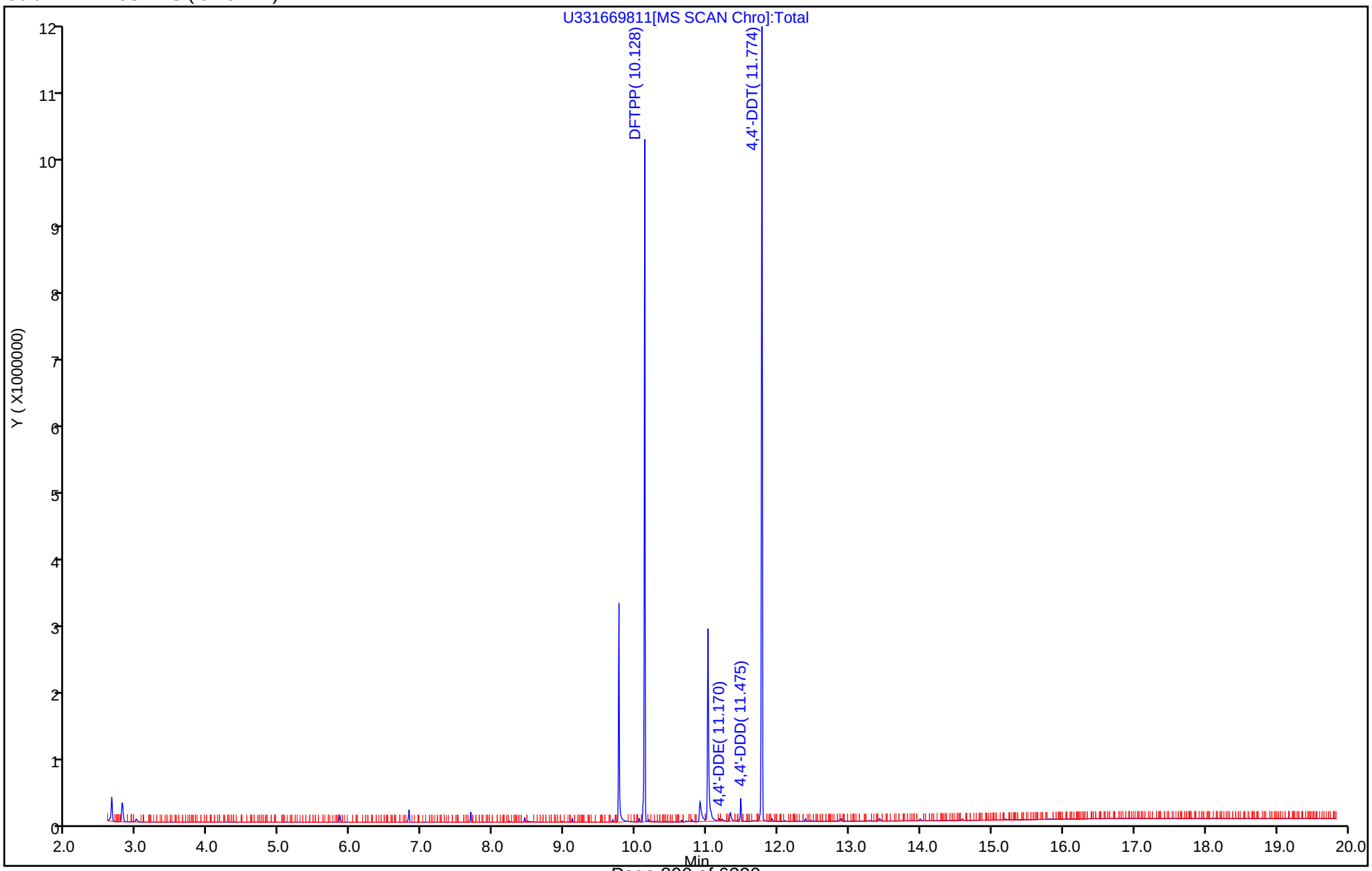
Report Date: 09-Jun-2022 11:15:07 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669811.D

Injection Date:	08-Jun-2022 22:46:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	DFTPP			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



Breakdown Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669811.D
Injection Date: 08-Jun-2022 22:46:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 27 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 1,4_Dx_SIM_HP5973U Limit Group: MB - 8270D SIM ID ICAL

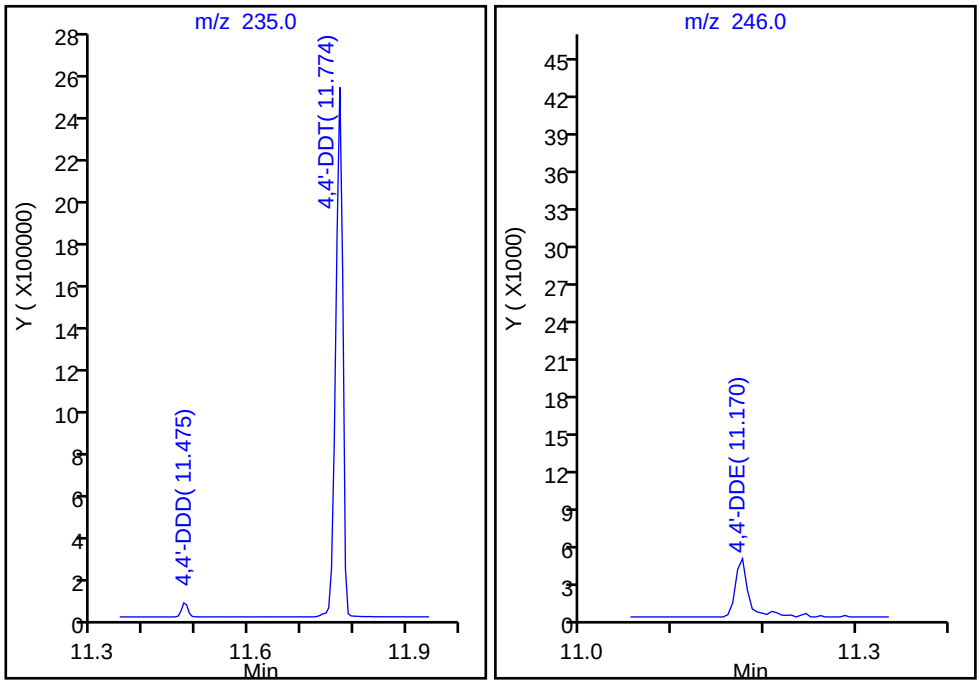
6 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

6 4,4'-DDT, Area = 2311240
5 4,4'-DDD, Area = 55978
7 4,4'-DDE, Area = 4694

%Breakdown: 2.56%, <= 20.00%
Passed



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669858.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 10-Jun-2022 13:51:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0106015-002
Operator ID: PJQ Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 10-Jun-2022 14:35:45 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: Deconvolution ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1626

First Level Reviewer: quirkp Date: 10-Jun-2022 14:35:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 DFTPP									
7 4,4'-DDE	246	11.175	11.175	0.000	0	5495		NR	
5 4,4'-DDD	235	11.480	11.480	0.000	98	242840		NR	
6 4,4'-DDT	235	11.774	11.774	0.000	99	1919908	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

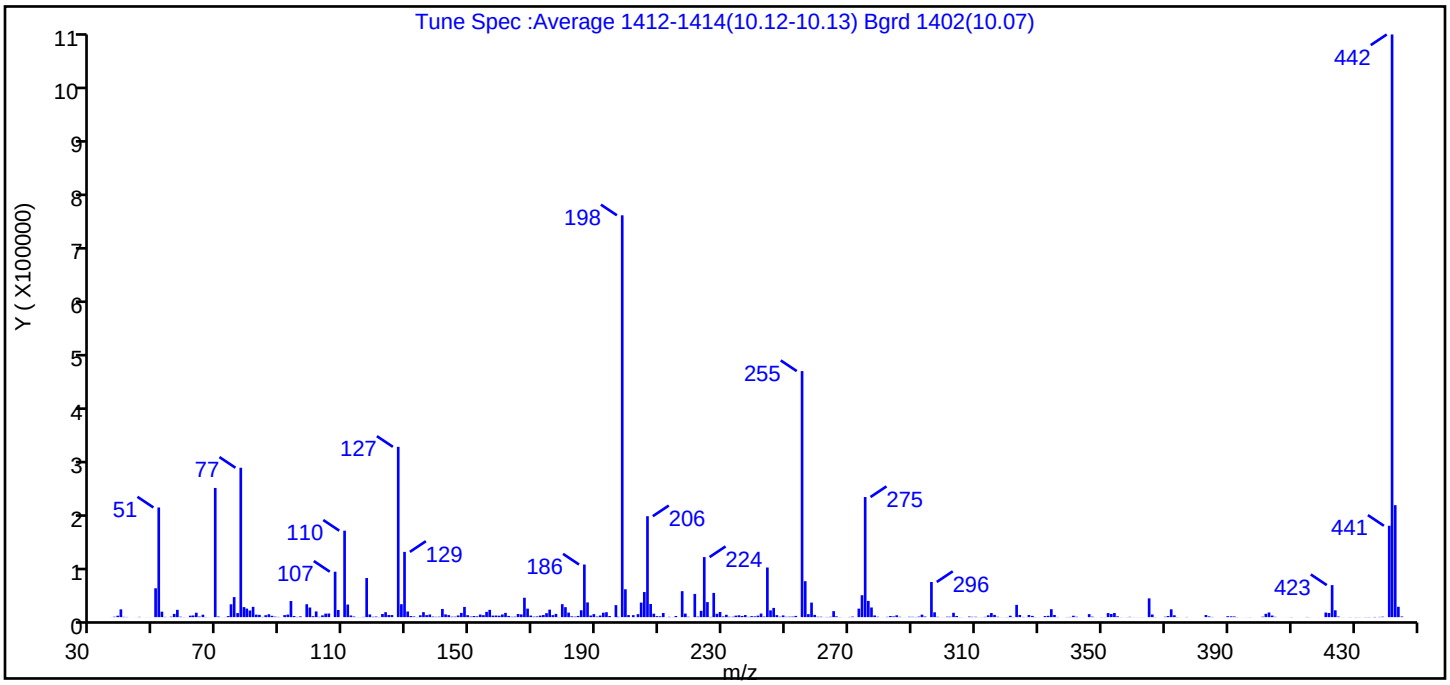
MB_DFTPP_WRK_00409 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669858.D
Injection Date: 10-Jun-2022 13:51:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 1,4_Dx_SIM_HP5973U Limit Group: MB - 8270D SIM ID ICAL
Tune Method: DFTPP Method 8270D, BP 198

4 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (69.0)
51	10-80% of the base peak	27.3
68	<2% of mass 69	0.0 (0.0)
69	Present	32.1
70	<2% of mass 69	0.2 (0.5)
127	10-80% of the base peak	42.4
197	<2% of mass 198	0.1
199	5-9% of mass 198	6.9
275	10-60% of the base peak	29.9
365	>1% of mass 198	4.7
441	present but <24% of mass 442	22.7 (15.7)
442	base peak, or >50% of 198	145.0
443	15-24% of mass 442	27.9 (19.2)

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669858.D\1,4_Dx_SIM_HP5973U.rslt\s
Injection Date: 10-Jun-2022 13:51:30
Spectrum: Tune Spec :Average 1412-1414(10.12-10.13) Bgrd 1402(10.07)
Base Peak: 442.10
Minimum % Base Peak: 0
Number of Points: 369

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	99	137.00	4768	234.00	2661	330.00	146
37.00	748	138.00	1049	235.00	3330	332.00	1877
38.00	2562	139.00	626	236.00	2120	333.00	2375
39.00	13923	140.00	820	237.00	3719	334.00	14211
40.00	561	141.00	14639	238.00	523	335.00	3816
41.00	357	142.00	4949	239.00	1758	336.00	349
42.00	38	143.00	3610	240.00	1362	339.00	299
43.00	40	144.00	865	241.00	2689	340.00	395
44.00	107	145.00	862	242.00	6437	341.00	2536
45.00	490	146.00	3025	243.00	956	342.00	751
47.00	88	147.00	7568	244.00	88856	343.00	44
48.00	111	148.00	18296	245.00	12113	344.00	68
50.00	51696	149.00	3508	246.00	16544	346.00	5425
51.00	196288	150.00	1034	247.00	3583	347.00	905
52.00	9817	151.00	2029	248.00	780	348.00	111
53.00	450	152.00	1414	249.00	3102	350.00	230
55.00	824	153.00	4680	250.00	632	351.00	157
56.00	5843	154.00	3529	251.00	863	352.00	7297
57.00	13070	155.00	9447	252.00	971	353.00	5677
58.00	776	156.00	13068	253.00	2235	354.00	7398
59.00	262	157.00	2719	255.00	440384	355.00	1471
60.00	108	158.00	2870	256.00	64352	356.00	242
61.00	2600	159.00	2554	257.00	5370	357.00	54
62.00	2980	160.00	4778	258.00	26080	358.00	158
63.00	7926	161.00	7666	259.00	4051	359.00	549
64.00	1014	162.00	2171	260.00	717	360.00	132
65.00	4355	163.00	718	261.00	744	361.00	124
66.00	301	164.00	912	262.00	93	362.00	105
67.00	112	165.00	5621	263.00	377	363.00	136
69.00	231232	166.00	4928	264.00	659	365.00	33632
70.00	1120	167.00	34720	265.00	10761	366.00	4723
71.00	94	168.00	15243	266.00	1370	367.00	300
72.00	190	169.00	2800	267.00	234	370.00	718

Report Date: 10-Jun-2022 14:35:45 Chrom Revision: 2.3 18-May-2022 20:00:04
Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669858.D\1,4_Dx_SIM_HP5973U.rslt\s
Injection Date: 10-Jun-2022 13:51:30
Spectrum: Tune Spec :Average 1412-1414(10.12-10.13) Bgrd 1402(10.07)
Base Peak: 442.10
Minimum % Base Peak: 0
Number of Points: 369

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	1914	170.00	919	268.00	58	371.00	2029
74.00	22976	171.00	1299	269.00	65	372.00	14020
75.00	35896	172.00	2835	270.00	364	373.00	3272
76.00	7264	173.00	3783	271.00	1025	374.00	279
77.00	267392	174.00	7100	272.00	100	375.00	55
78.00	17960	175.00	13439	273.00	15193	377.00	368
79.00	15276	176.00	3602	274.00	39248	382.00	36
80.00	11900	177.00	5830	275.00	214976	383.00	3741
81.00	18424	178.00	300	276.00	29064	384.00	1381
82.00	4506	179.00	23248	277.00	17304	385.00	397
83.00	4093	180.00	17864	278.00	3013	388.00	38
84.00	454	181.00	8159	279.00	752	389.00	71
85.00	3418	182.00	1424	280.00	57	390.00	1722
86.00	5166	183.00	891	281.00	87	391.00	1470
87.00	2401	184.00	2198	282.00	561	392.00	1240
88.00	918	185.00	12339	283.00	1985	393.00	226
89.00	449	186.00	94176	284.00	1352	394.00	50
90.00	72	187.00	26368	285.00	3327	395.00	112
91.00	3652	188.00	2873	286.00	654	396.00	112
92.00	4628	189.00	5406	287.00	94	397.00	238
93.00	28872	190.00	1016	288.00	95	401.00	831
94.00	1952	191.00	2868	289.00	678	402.00	5959
95.00	428	192.00	7931	290.00	607	403.00	8304
96.00	1389	193.00	8821	291.00	345	404.00	2825
98.00	23128	194.00	1993	292.00	946	405.00	560
99.00	17264	196.00	21512	293.00	4471	408.00	36
100.00	1638	197.00	705	294.00	1101	409.00	87
101.00	10182	198.00	719232	296.00	62952	410.00	235
102.00	549	199.00	49880	297.00	8634	412.00	35
103.00	3138	200.00	3695	298.00	663	415.00	365
104.00	6316	202.00	3550	299.00	128	416.00	148
105.00	6527	203.00	5333	300.00	108	419.00	36
107.00	81320	204.00	26040	301.00	865	421.00	8254
108.00	12825	205.00	44944	302.00	795	422.00	7420

Report Date: 10-Jun-2022 14:35:45 Chrom Revision: 2.3 18-May-2022 20:00:04
Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669858.D\1,4_Dx_SIM_HP5973U.rslt\s
Injection Date: 10-Jun-2022 13:51:30
Spectrum: Tune Spec :Average 1412-1414(10.12-10.13) Bgrd 1402(10.07)
Base Peak: 442.10
Minimum % Base Peak: 0
Number of Points: 369

m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.00	154752	206.00	180672	303.00	7767	423.00	57336
111.00	22584	207.00	23520	304.00	2112	424.00	12252
112.00	2963	208.00	6188	305.00	230	425.00	1098
113.00	1087	209.00	1768	306.00	104	426.00	90
114.00	199	210.00	1436	308.00	1075	427.00	85
115.00	203	211.00	7440	309.00	591	429.00	129
116.00	486	212.00	126	310.00	685	429.00	188
117.00	70024	213.00	649	311.00	155	430.00	91
118.00	4839	214.00	151	312.00	192	431.00	200
119.00	693	215.00	2076	313.00	533	432.00	189
120.00	1082	217.00	46504	314.00	3323	434.00	195
121.00	342	218.00	6322	315.00	7390	434.00	195
122.00	5660	219.00	699	316.00	4040	435.00	268
123.00	8865	221.00	41584	317.00	751	436.00	223
124.00	3802	222.00	976	318.00	132	437.00	367
125.00	3722	223.00	11303	319.00	127	438.00	446
127.00	304832	224.00	107512	320.00	292	439.00	817
128.00	23176	225.00	26928	321.00	2490	441.00	163520
129.00	116800	226.00	461	322.00	266	442.00	1042880
130.00	10062	227.00	43376	323.00	21960	443.00	200448
131.00	2021	228.00	6036	324.00	3947	444.00	18536
132.00	1196	229.00	9248	325.00	427	445.00	1208
133.00	323	230.00	1269	326.00	117	446.00	41
134.00	3307	231.00	4241	327.00	3858		
135.00	8974	232.00	750	328.00	2234		
136.00	3629	233.00	769	329.00	317		

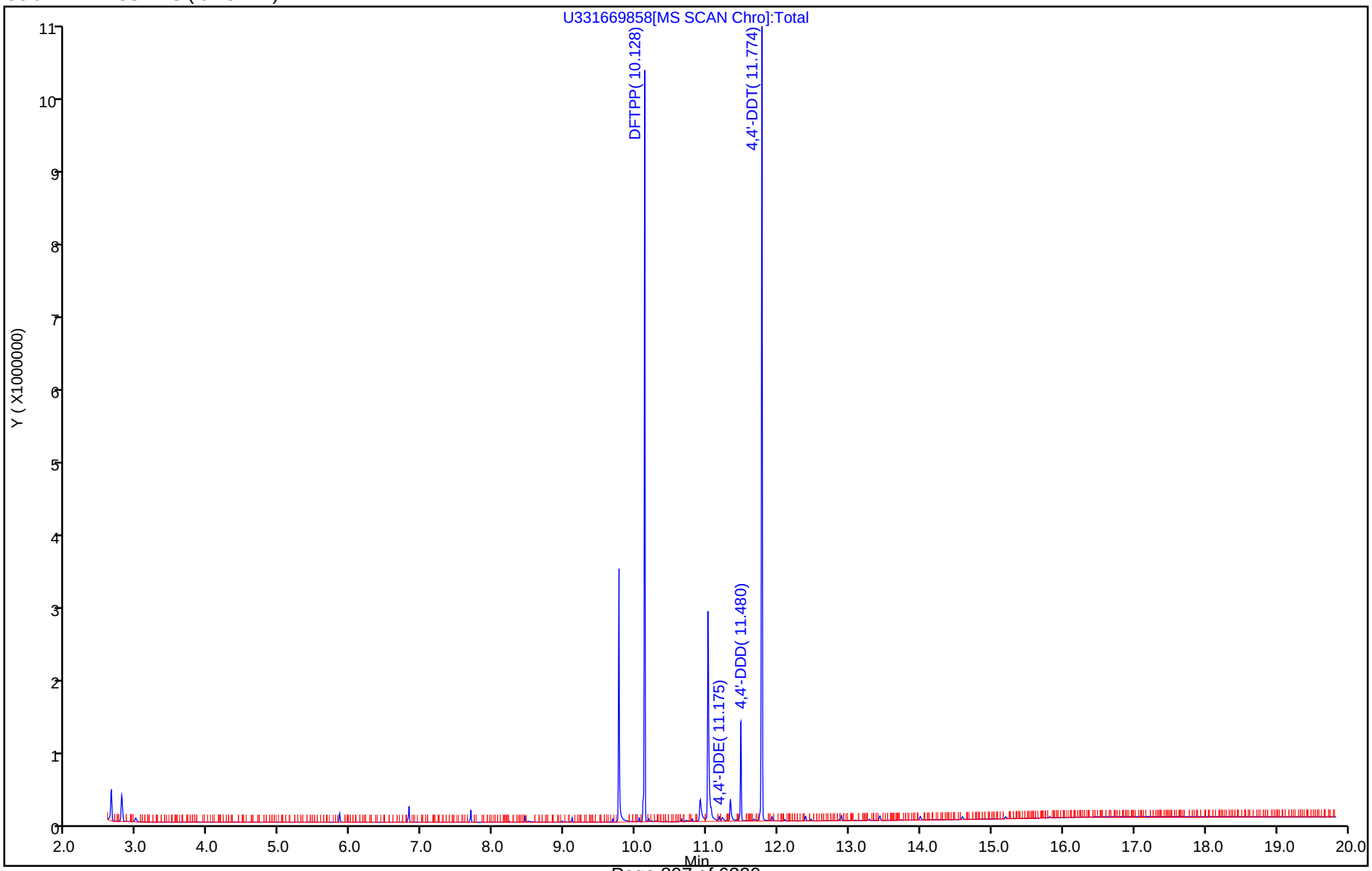
Report Date: 10-Jun-2022 14:35:45 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669858.D

Injection Date:	10-Jun-2022 13:51:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	DFTPP			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



Breakdown Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669858.D
Injection Date: 10-Jun-2022 13:51:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 1,4_Dx_SIM_HP5973U Limit Group: MB - 8270D SIM ID ICAL

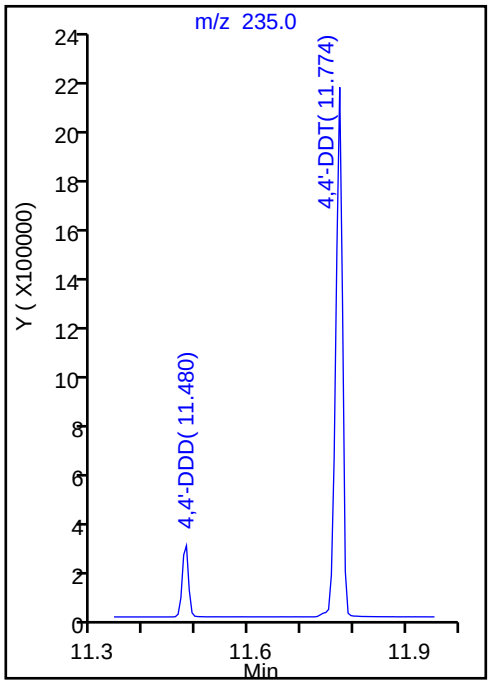
6 4,4'-DDT, Detector: MS SCAN

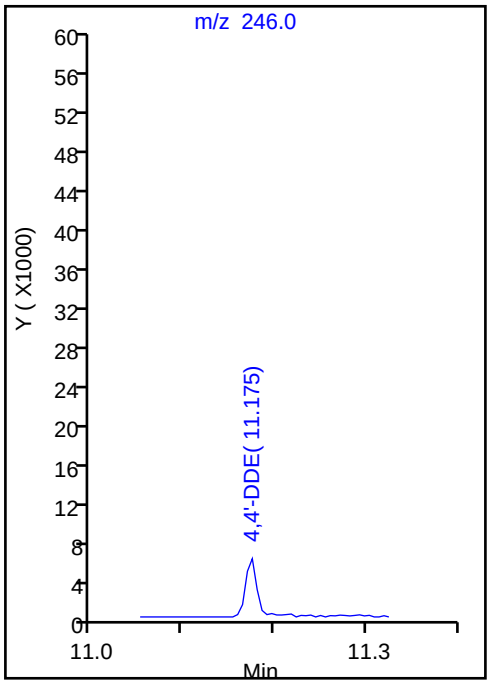
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

6 4,4'-DDT, Area = 1919908
5 4,4'-DDD, Area = 242840
7 4,4'-DDE, Area = 5495

%Breakdown: 11.45%, <= 20.00%
Passed





FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: | Lab Sample ID: MB 480-629117/1-A

Matrix: Water | Lab File ID: U331669813.D

Analysis Method: 8270D SIM ID | Date Collected:

Extract. Method: 3510C | Date Extracted: 06/07/2022 15:03

Sample wt/vol: 250(mL) | Date Analyzed: 06/08/2022 23:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 629253 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
123-91-1	1,4-Dioxane	ND		0.20	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	39		15-110

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669813.D
Lims ID: MB 480-629117/1-A
Client ID:
Sample Type: MB
Inject. Date: 08-Jun-2022 23:40:30 ALS Bottle#: 29 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0105968-004
Operator ID: PJQ Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 09-Jun-2022 11:16:48 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1675

First Level Reviewer: quirkp Date: 09-Jun-2022 11:26:55

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D	1 1,4-Dioxane-d8	96	3.407	3.403	0.004	100	124866	5.00	1.97	
	3 1,4-Dioxane	88		3.448					ND	
*	2 1,4-Dichlorobenzene-d4	152	6.308	6.308	0.000	100	447793	4.00	4.00	

QC Flag Legend
Processing Flags

Reagents:
MB_LLIS_WRK_00235 Amount Added: 20.00 Units: uL Run Reagent

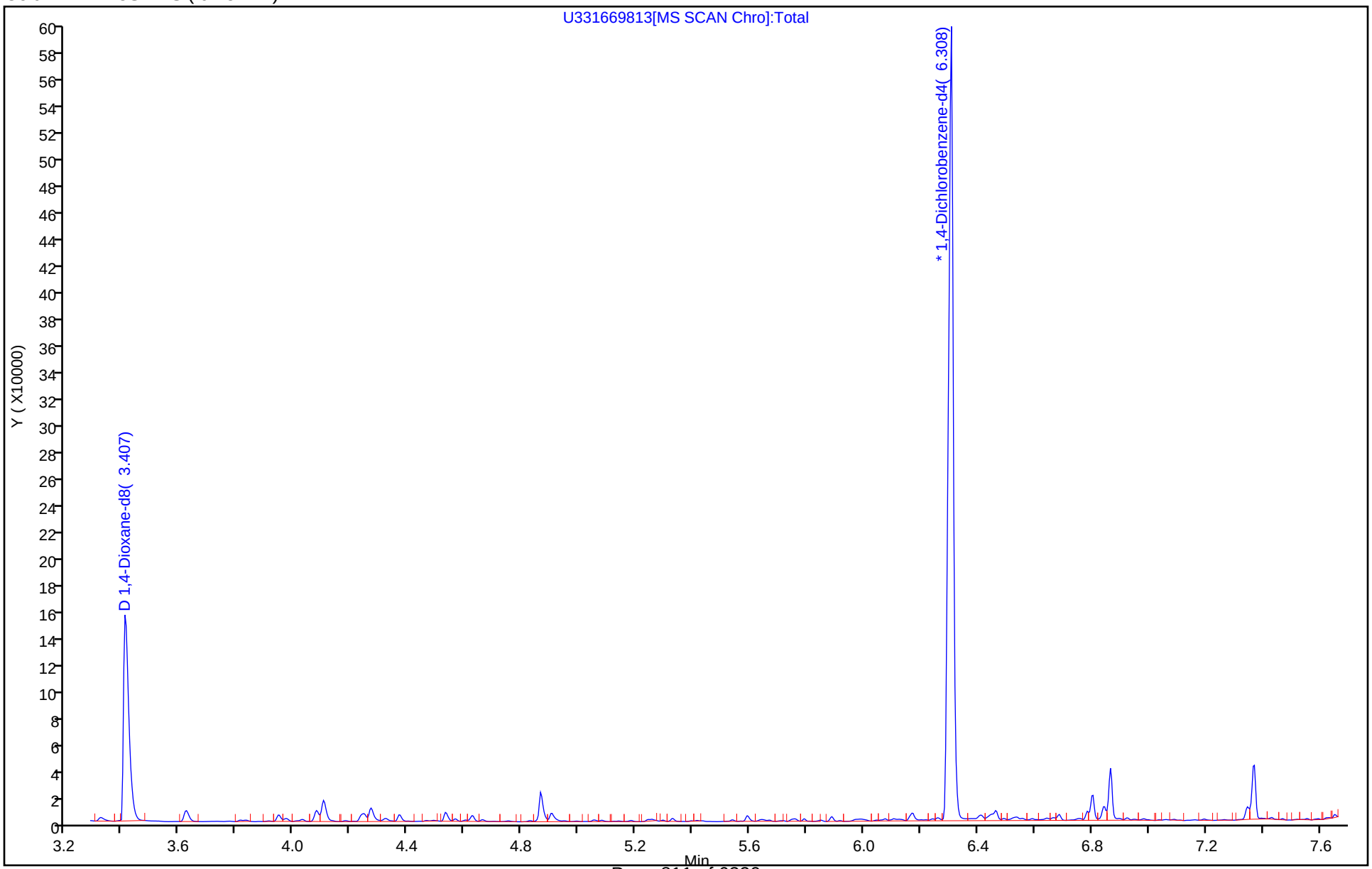
Report Date: 09-Jun-2022 11:26:56 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669813.D

Injection Date:	08-Jun-2022 23:40:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	MB 480-629117/1-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



Report Date: 09-Jun-2022 11:26:56 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669813.D

Injection Date: 08-Jun-2022 23:40:30 Instrument ID: HP5973U

Lims ID: MB 480-629117/1-A

Client ID:

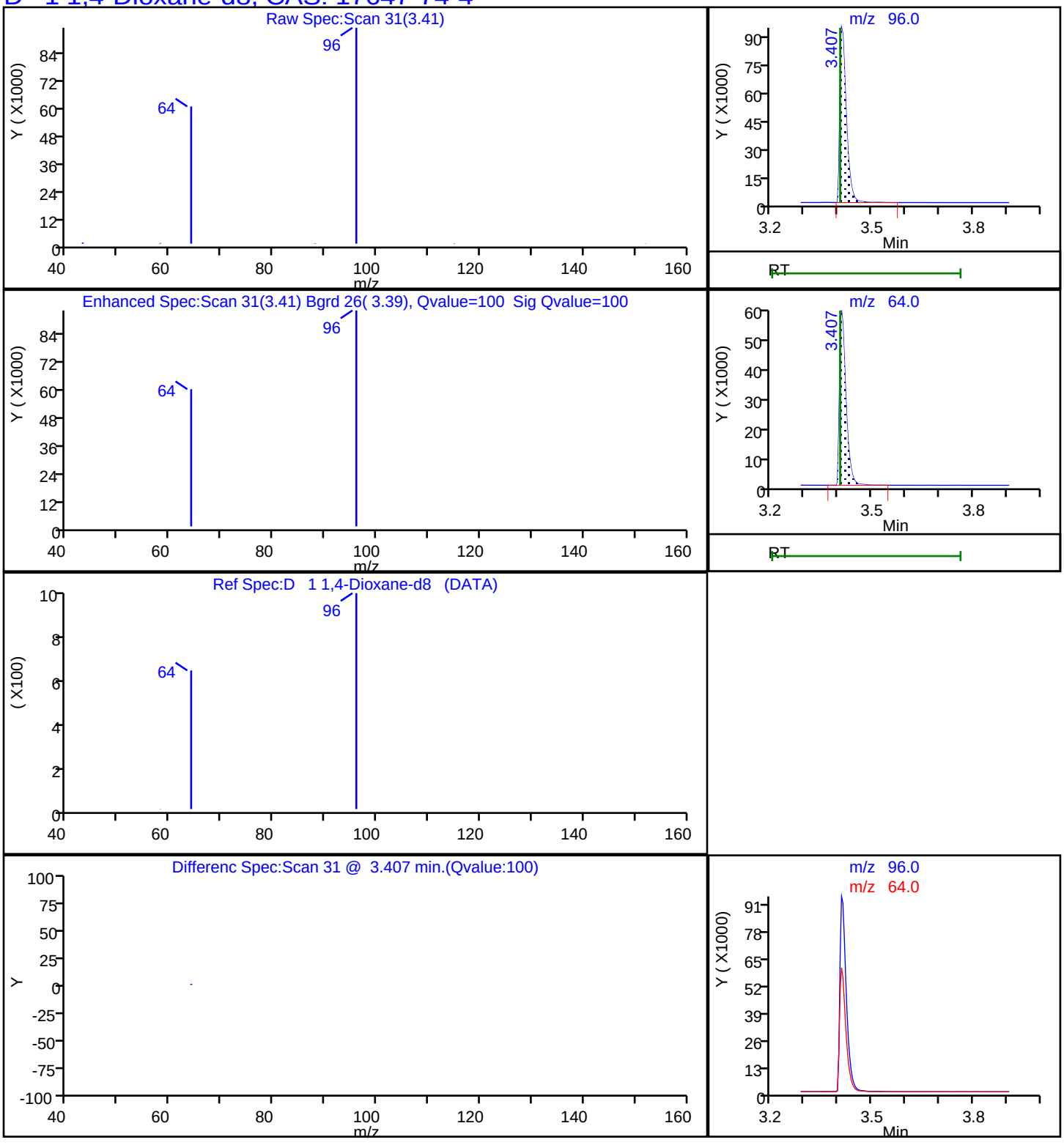
Operator ID: PJQ ALS Bottle#: 29 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 1,4_Dx_SIM_HP5973U Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: | Lab Sample ID: MB 480-629476/1-A

Matrix: Water | Lab File ID: U331669862.D

Analysis Method: 8270D SIM ID | Date Collected:

Extract. Method: 3510C | Date Extracted: 06/09/2022 14:44

Sample wt/vol: 250(mL) | Date Analyzed: 06/10/2022 15:27

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 629619 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
123-91-1	1,4-Dioxane	ND		0.20	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	39		15-110

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669862.D
Lims ID: MB 480-629476/1-A
Client ID:
Sample Type: MB
Inject. Date: 10-Jun-2022 15:27:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0106015-006
Operator ID: PJQ Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 10-Jun-2022 17:47:31 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1629

First Level Reviewer: quirkp Date: 14-Jun-2022 10:56:54

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D	1 1,4-Dioxane-d8	96	3.407	3.403	0.004	100	113966	5.00	1.94	
	3 1,4-Dioxane	88		3.448					ND	
*	2 1,4-Dichlorobenzene-d4	152	6.309	6.305	0.003	100	416552	4.00	4.00	

QC Flag Legend
Processing Flags

Reagents:
MB_LLIS_WRK_00235 Amount Added: 20.00 Units: uL Run Reagent

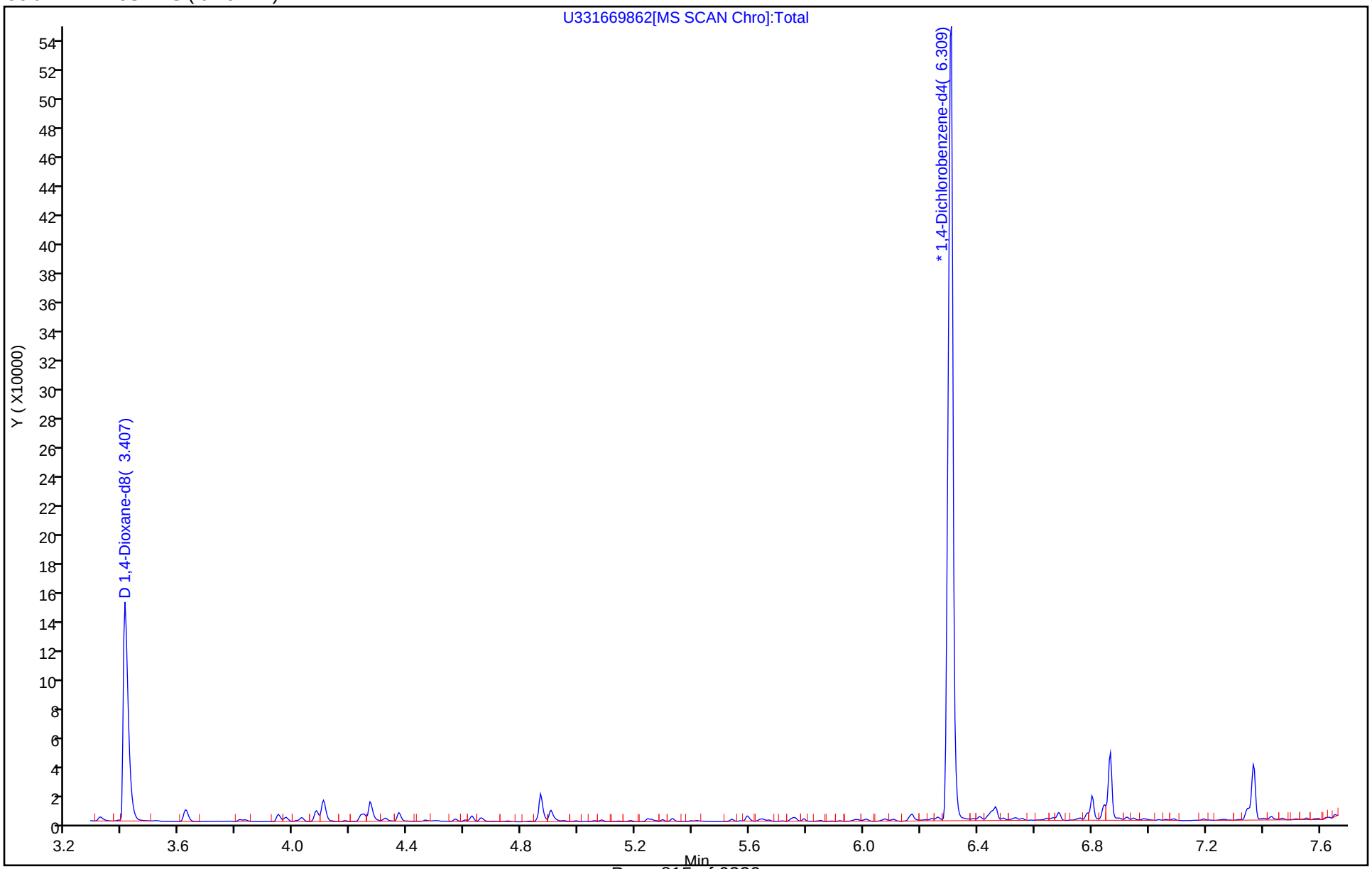
Report Date: 14-Jun-2022 10:56:54 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669862.D

Injection Date:	10-Jun-2022 15:27:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	MB 480-629476/1-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



Report Date: 14-Jun-2022 10:56:54 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669862.D

Injection Date: 10-Jun-2022 15:27:30 Instrument ID: HP5973U

Lims ID: MB 480-629476/1-A

Client ID:

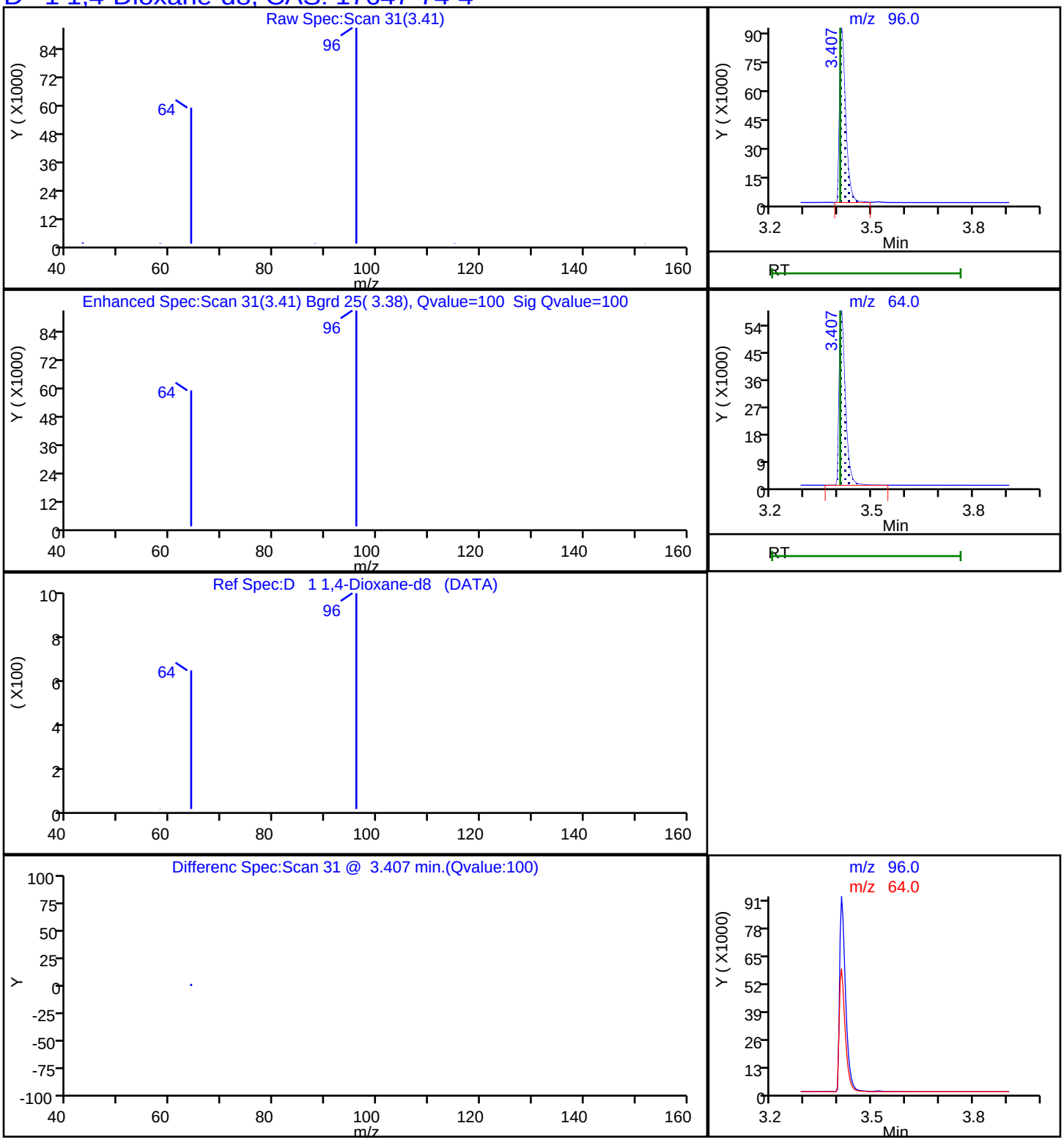
Operator ID: PJQ ALS Bottle#: 6 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 1,4_Dx_SIM_HP5973U Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: | Lab Sample ID: LCS 480-629117/2-A

Matrix: Water | Lab File ID: U331669814.D

Analysis Method: 8270D SIM ID | Date Collected:

Extract. Method: 3510C | Date Extracted: 06/07/2022 15:03

Sample wt/vol: 250(mL) | Date Analyzed: 06/09/2022 00:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 629253 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
123-91-1	1,4-Dioxane	2.37		0.20	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	38		15-110

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669814.D
Lims ID: LCS 480-629117/2-A
Client ID:
Sample Type: LCS
Inject. Date: 09-Jun-2022 00:03:30 ALS Bottle#: 30 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0105968-005
Operator ID: PJQ Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 09-Jun-2022 11:27:20 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1675

First Level Reviewer: quirkp Date: 09-Jun-2022 11:27:20

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D	1 1,4-Dioxane-d8	96	3.412	3.403	0.009	99	117778	5.00	1.90	
	3 1,4-Dioxane	88	3.456	3.448	0.008	96	14442	0.5000	0.5929	
*	2 1,4-Dichlorobenzene-d4	152	6.309	6.308	0.001	100	439549	4.00	4.00	

QC Flag Legend
Processing Flags

Reagents:
MB_LLIS_WRK_00235 Amount Added: 20.00 Units: uL Run Reagent

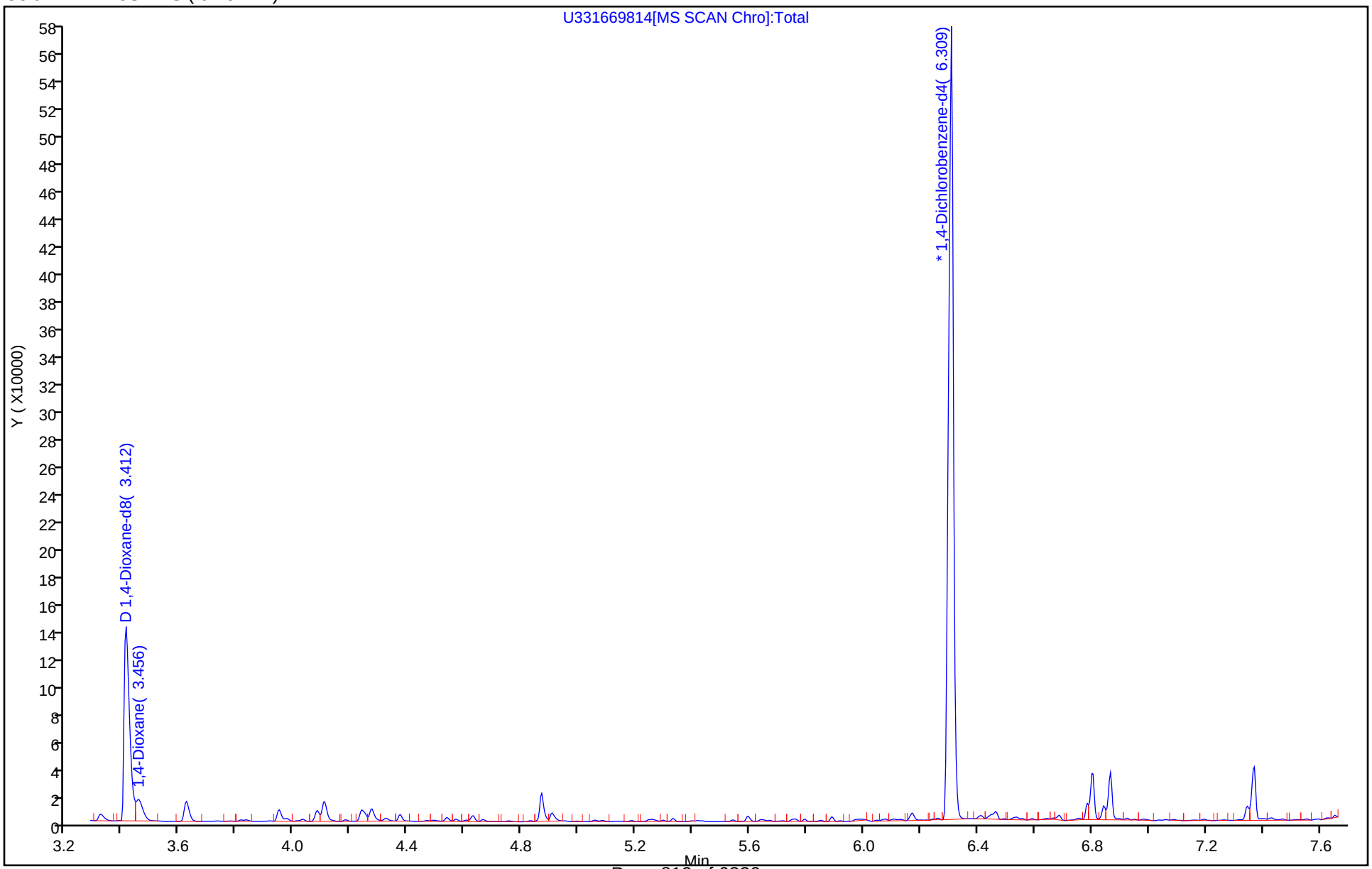
Report Date: 09-Jun-2022 11:27:20 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669814.D

Injection Date:	09-Jun-2022 00:03:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	LCS 480-629117/2-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: | Lab Sample ID: LCS 480-629476/2-A

Matrix: Water | Lab File ID: U331669863.D

Analysis Method: 8270D SIM ID | Date Collected:

Extract. Method: 3510C | Date Extracted: 06/09/2022 14:44

Sample wt/vol: 250(mL) | Date Analyzed: 06/10/2022 15:49

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 629619 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
123-91-1	1,4-Dioxane	2.35		0.20	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	38		15-110

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669863.D
Lims ID: LCS 480-629476/2-A
Client ID:
Sample Type: LCS
Inject. Date: 10-Jun-2022 15:49:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0106015-007
Operator ID: PJQ Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 14-Jun-2022 10:57:15 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1629

First Level Reviewer: quirkp Date: 14-Jun-2022 10:57:15

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D	1 1,4-Dioxane-d8	96	3.407	3.403	0.004	100	118674	5.00	1.91	
	3 1,4-Dioxane	88	3.452	3.448	0.004	98	14443	0.5000	0.5885	
*	2 1,4-Dichlorobenzene-d4	152	6.308	6.305	0.003	100	439132	4.00	4.00	

QC Flag Legend
Processing Flags

Reagents:
MB_LLIS_WRK_00235 Amount Added: 20.00 Units: uL Run Reagent

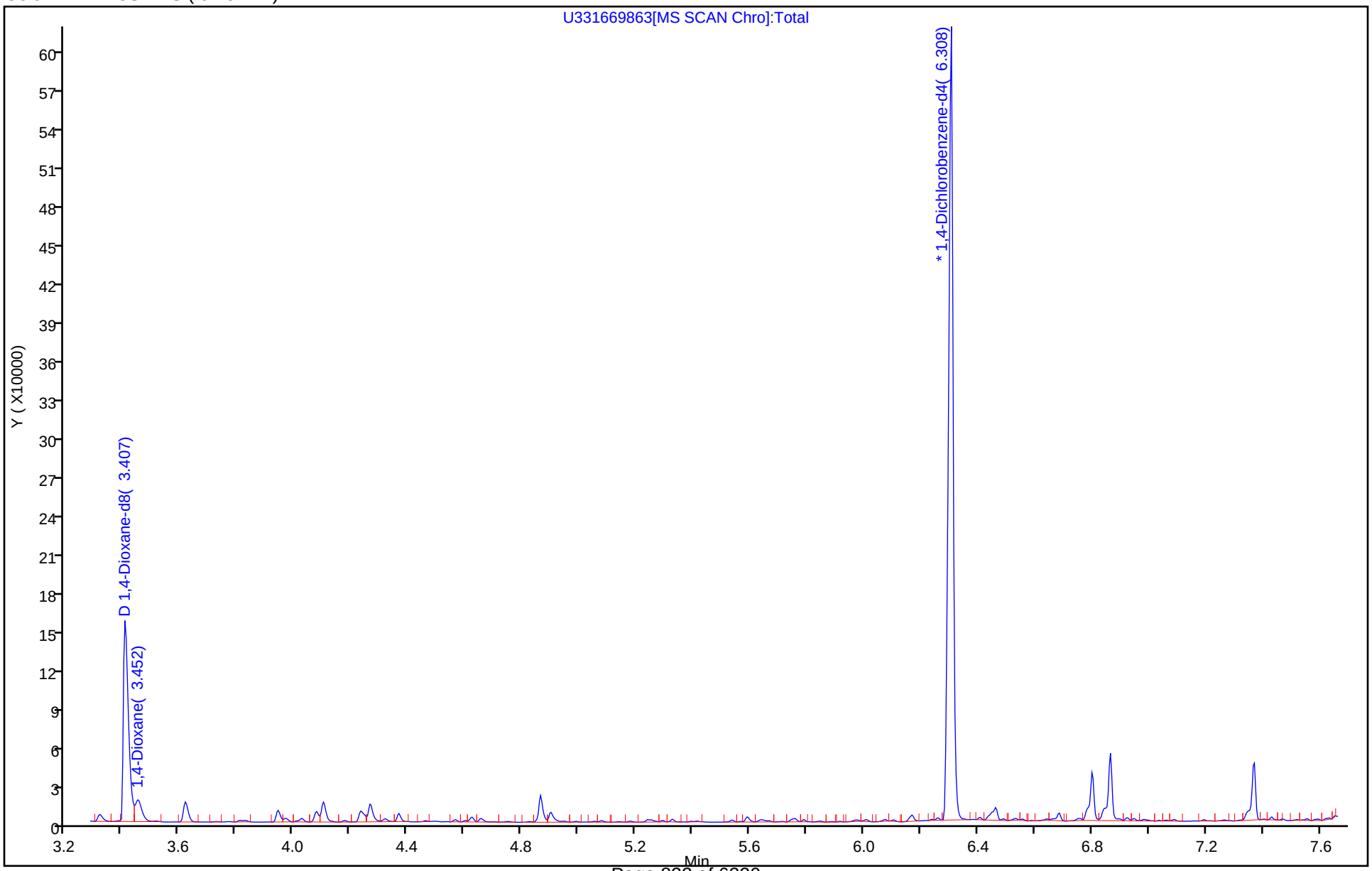
Report Date: 14-Jun-2022 10:57:16 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220610-106015.b\U331669863.D

Injection Date:	10-Jun-2022 15:49:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	LCS 480-629476/2-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: | Lab Sample ID: LCSD 480-629117/3-A

Matrix: Water | Lab File ID: U331669815.D

Analysis Method: 8270D SIM ID | Date Collected:

Extract. Method: 3510C | Date Extracted: 06/07/2022 15:03

Sample wt/vol: 250(mL) | Date Analyzed: 06/09/2022 00:25

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor: | Level: (low/med) Low

Analysis Batch No.: 629253 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
123-91-1	1,4-Dioxane	2.36		0.20	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	38		15-110

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669815.D
Lims ID: LCSD 480-629117/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 09-Jun-2022 00:25:30 ALS Bottle#: 31 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0105968-006
Operator ID: PJQ Instrument ID: HP5973U

Method: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\1,4_Dx_SIM_HP5973U.m
Limit Group: MB - 8270D SIM ID ICAL
Last Update: 09-Jun-2022 11:27:49 Calib Date: 06-Apr-2022 18:32:30
Integrator: Picker ID Type: RT Order ID
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20220406-104766.b\U33166055.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1675

First Level Reviewer: quirkp Date: 09-Jun-2022 11:27:49

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D	1 1,4-Dioxane-d8	96	3.412	3.403	0.009	99	116901	5.00	1.89	
	3 1,4-Dioxane	88	3.456	3.448	0.008	97	14236	0.5000	0.5888	
*	2 1,4-Dichlorobenzene-d4	152	6.309	6.308	0.001	100	438341	4.00	4.00	

QC Flag Legend
Processing Flags

Reagents:
MB_LLIS_WRK_00235 Amount Added: 20.00 Units: uL Run Reagent

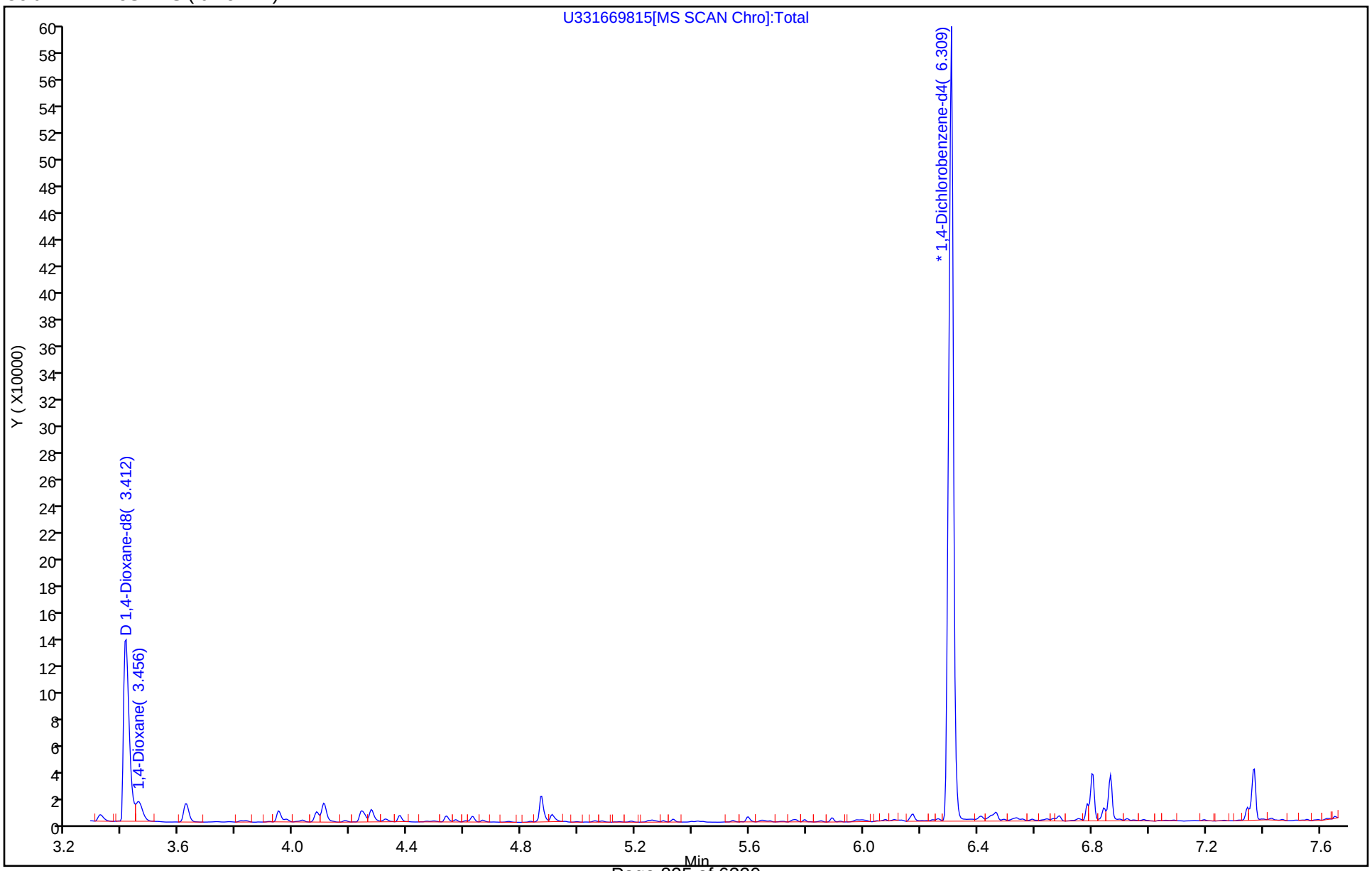
Report Date: 09-Jun-2022 11:27:49 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20220608-105968.b\U331669815.D

Injection Date:	09-Jun-2022 00:25:30	Instrument ID:	HP5973U	Operator ID:	PJQ
Lims ID:	LCSD 480-629117/3-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	1,4_Dx_SIM_HP5973U	Limit Group:	MB - 8270D SIM ID ICAL		

Column: RXI-5Sil MS (0.25 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: HP5973U Start Date: 04/06/2022 16:12

Analysis Batch Number: 620693 End Date: 04/07/2022 00:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-620693/2		04/06/2022 16:12	1	U33166049.D	RXI-5Sil MS(0.5 0.25(mm)
IC 480-620693/3		04/06/2022 16:42	1	U33166050.D	RXI-5Sil MS(0.5 0.25(mm)
IC 480-620693/4		04/06/2022 17:04	1	U33166051.D	RXI-5Sil MS(0.5 0.25(mm)
IC 480-620693/5		04/06/2022 17:26	1	U33166052.D	RXI-5Sil MS(0.5 0.25(mm)
ICIS 480-620693/6		04/06/2022 17:48	1	U33166053.D	RXI-5Sil MS(0.5 0.25(mm)
IC 480-620693/7		04/06/2022 18:09	1	U33166054.D	RXI-5Sil MS(0.5 0.25(mm)
IC 480-620693/8		04/06/2022 18:32	1	U33166055.D	RXI-5Sil MS(0.5 0.25(mm)
ICV 480-620693/9		04/06/2022 18:54	1	U33166056.D	RXI-5Sil MS(0.5 0.25(mm)
CCVIS 480-620693/10		04/06/2022 19:16	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		04/06/2022 19:39	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		04/06/2022 20:00	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		04/06/2022 20:22	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		04/06/2022 20:44	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		04/06/2022 21:06	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		04/06/2022 21:28	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		04/06/2022 21:51	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		04/06/2022 22:12	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		04/06/2022 22:34	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		04/06/2022 22:56	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		04/06/2022 23:18	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		04/06/2022 23:40	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		04/07/2022 00:01	1		RXI-5Sil MS(0.5 0.25(mm)

8270D SIM ID

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: HP5973U Start Date: 06/08/2022 22:46

Analysis Batch Number: 629253 End Date: 06/09/2022 05:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-629253/2		06/08/2022 22:46	1	U331669811.D	RXI-5Sil MS(0.5 0.25(mm)
CCVIS 480-629253/3		06/08/2022 23:18	1	U331669812.D	RXI-5Sil MS(0.5 0.25(mm)
MB 480-629117/1-A		06/08/2022 23:40	1	U331669813.D	RXI-5Sil MS(0.5 0.25(mm)
LCS 480-629117/2-A		06/09/2022 00:03	1	U331669814.D	RXI-5Sil MS(0.5 0.25(mm)
LCSD 480-629117/3-A		06/09/2022 00:25	1	U331669815.D	RXI-5Sil MS(0.5 0.25(mm)
480-198722-1	CD-1	06/09/2022 00:47	1	U331669816.D	RXI-5Sil MS(0.5 0.25(mm)
480-198722-2	CD-1RA	06/09/2022 01:09	1	U331669817.D	RXI-5Sil MS(0.5 0.25(mm)
480-198722-3	MW-1B	06/09/2022 01:31	1	U331669818.D	RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		06/09/2022 01:53	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		06/09/2022 02:15	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		06/09/2022 02:38	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		06/09/2022 03:00	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		06/09/2022 03:22	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		06/09/2022 03:44	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		06/09/2022 04:06	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		06/09/2022 04:28	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		06/09/2022 04:50	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		06/09/2022 05:12	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		06/09/2022 05:34	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		06/09/2022 05:57	1		RXI-5Sil MS(0.5 0.25(mm)

8270D SIM ID

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: HP5973U Start Date: 06/10/2022 13:51

Analysis Batch Number: 629619 End Date: 06/10/2022 19:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-629619/2		06/10/2022 13:51	1	U331669858.D	RXI-5Sil MS(0.5 0.25(mm)
CCVIS 480-629619/3		06/10/2022 14:21	1	U331669859.D	RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		06/10/2022 14:43	5		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		06/10/2022 15:05	100		RXI-5Sil MS(0.5 0.25(mm)
MB 480-629476/1-A		06/10/2022 15:27	1	U331669862.D	RXI-5Sil MS(0.5 0.25(mm)
LCS 480-629476/2-A		06/10/2022 15:49	1	U331669863.D	RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		06/10/2022 16:11	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		06/10/2022 16:33	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		06/10/2022 16:56	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		06/10/2022 17:19	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		06/10/2022 17:42	1		RXI-5Sil MS(0.5 0.25(mm)
480-198818-1	MW-1A	06/10/2022 18:04	1	U331669869.D	RXI-5Sil MS(0.5 0.25(mm)
480-198818-2	MW-2A	06/10/2022 18:27	1	U331669870.D	RXI-5Sil MS(0.5 0.25(mm)
480-198818-3	MW-2B	06/10/2022 18:49	10	U331669871.D	RXI-5Sil MS(0.5 0.25(mm)
480-198818-4	MW-6A	06/10/2022 19:10	1	U331669872.D	RXI-5Sil MS(0.5 0.25(mm)
480-198818-5	MW-6B	06/10/2022 19:33	1	U331669873.D	RXI-5Sil MS(0.5 0.25(mm)

8270D SIM ID

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 620693 Batch Start Date: 04/06/22 16:12 Batch Analyst: Quirk, Patrick J

Batch Method: 8270D SIM ID Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MB_1,4SIM_WRK 00129	MB_1,4SIM_WRK 00130	MB_1,4SIM_WRK 00131	MB_1,4SIM_WRK 00132	MB_1,4SIM_WRK 00133	MB_1,4SIM_WRK 00134
DFTPP 480-620693/2		8270D SIM ID							
IC 480-620693/3		8270D SIM ID		1 mL					
IC 480-620693/4		8270D SIM ID			1 mL				
IC 480-620693/5		8270D SIM ID				1 mL			
ICIS 480-620693/6		8270D SIM ID					1 mL		
IC 480-620693/7		8270D SIM ID						1 mL	
IC 480-620693/8		8270D SIM ID							1 mL
ICV 480-620693/9		8270D SIM ID							

Lab Sample ID	Client Sample ID	Method Chain	Basis	MB_DFTPP_WRK 00404	MB_LLIS_WRK 00232	MB_SIMSS_WRK 00018			
DFTPP 480-620693/2		8270D SIM ID		1 mL					
IC 480-620693/3		8270D SIM ID			20 uL				
IC 480-620693/4		8270D SIM ID			20 uL				
IC 480-620693/5		8270D SIM ID			20 uL				
ICIS 480-620693/6		8270D SIM ID			20 uL				
IC 480-620693/7		8270D SIM ID			20 uL				
IC 480-620693/8		8270D SIM ID			20 uL				
ICV 480-620693/9		8270D SIM ID			20 uL	1 mL			

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629117 Batch Start Date: 06/07/22 15:02 Batch Analyst: Campbell, Cameron M

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	OP_SIM_LCS 00018	OP_SimSurr 00042	
MB 480-629117/1		3510C, 8270D SIM ID		250 mL	1 mL	7 SU		1 mL	
LCS 480-629117/2		3510C, 8270D SIM ID		250 mL	1 mL	7 SU	1 mL	1 mL	
LCSD 480-629117/3		3510C, 8270D SIM ID		250 mL	1 mL	7 SU	1 mL	1 mL	
480-198722-A-1	CD-1	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU		1 mL	
480-198722-A-2	CD-1RA	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU		1 mL	
480-198722-B-3	MW-1B	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU		1 mL	

Batch Notes	
Method/Fraction	3510C_LVI/8270D_SIM_MS_ID
Analyst ID - Extraction	CC
Analyst ID - Spike Analyst	SM
Analyst ID - Spike Witness Analyst	CC
Sufficient Volume for Batch QC	Yes
Acid Used for pH Adjustment ID	6931758
Prep Solvent ID	7015680
Prep Solvent Volume Used	60 mL
Na2SO4 ID	Unbaked sulfate
Analyst ID - Concentration	CC
Vial Lot Number	00259742

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270D SIM ID

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629476 Batch Start Date: 06/09/22 14:44 Batch Analyst: Campbell, Cameron M

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	OP_SIM_LCS 00018	OP_SimSurr 00042
MB 480-629476/1		3510C, 8270D SIM ID		250 mL	1 mL	7 SU	<2 SU		1 mL
LCS 480-629476/2		3510C, 8270D SIM ID		250 mL	1 mL	7 SU	<2 SU	1 mL	1 mL
480-198818-B-1	MW-1A	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU	<2 SU		1 mL
480-198818-A-2	MW-2A	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU	<2 SU		1 mL
480-198818-B-3	MW-2B	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU	<2 SU		1 mL
480-198818-A-4	MW-6A	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU	<2 SU		1 mL
480-198818-B-5	MW-6B	3510C, 8270D SIM ID	T	250 mL	1 mL	7 SU	<2 SU		1 mL

Batch Notes	
Method/Fraction	3510C_LVI/8270D_SIM_MS_ID
Analyst ID - Extraction	CC
Analyst ID - Spike Analyst	CC
Analyst ID - Spike Witness Analyst	CC
Sufficient Volume for Batch QC	No
Acid Used for pH Adjustment ID	6931758
Prep Solvent ID	7015680
Prep Solvent Volume Used	60 mL
Na2SO4 ID	6943021 (Unbaked)
Analyst ID - Concentration	CC
Vial Lot Number	00259742

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270D SIM ID

PFC_IDA

Fluorinated Alkyl Substances

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	C3PFBS #	PFHxA #	C4PFHA #	PFHxS #	M262FTS #	PFOA #
CD-1	480-198722-1	111	108	90	108	104	90	91	102
CD-1RA	480-198722-2	106	105	91	99	100	88	87	100
MW-1B	480-198722-3	104	104	91	100	106	89	90	97
MW-1A	480-198818-1	111	112	94	102	104	91	92	99
MW-2A	480-198818-2	84	106	91	93	102	89	106	101
MW-2B	480-198818-3	76	97	83	93	96	85	110	100
MW-6A	480-198818-4	100	101	88	101	99	89	91	96
MW-6B	480-198818-5	147	111	93	103	107	90	96	100
	MB 200-180717/1-A	113	109	98	108	106	91	90	97
	LCS 200-180717/2-A	114	112	100	105	100	92	91	97
	LCSD 200-180717/3-A	114	107	92	105	99	88	90	97

	QC LIMITS
PFBA = 13C4 PFBA	50-150
PFPeA = 13C5 PFPeA	50-150
C3PFBS = 13C3 PFBS	50-150
PFHxA = 13C2 PFHxA	50-150
PFHxS = 18O2 PFHxS	50-150
C4PFHA = 13C4 PFHpA	50-150
M262FTS = M2-6:2 FTS	50-150
PFOA = 13C4 PFOA	50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFOS #	PFNA #	M282FTS #	PFDA #	PFOSA #	d3NMFOS #	PFUnA #	d5NEFOS #
CD-1	480-198722-1	80	97	88	89	82	104	81	99
CD-1RA	480-198722-2	76	85	86	82	77	98	76	101
MW-1B	480-198722-3	81	88	89	88	83	108	82	109
MW-1A	480-198818-1	85	97	91	96	84	116	94	114
MW-2A	480-198818-2	79	93	89	89	74	109	81	105
MW-2B	480-198818-3	83	96	94	99	78	112	90	113
MW-6A	480-198818-4	79	90	84	84	67	103	79	104
MW-6B	480-198818-5	86	109	93	96	80	112	105	135
	MB 200-180717/1-A	87	96	92	94	79	110	91	110
	LCS 200-180717/2-A	86	96	93	96	81	120	95	117
	LCSD 200-180717/3-A	85	95	90	93	71	113	86	108

	QC LIMITS
PFOS = 13C4 PFOS	50-150
PFNA = 13C5 PFNA	50-150
M282FTS = M2-8:2 FTS	50-150
PFDA = 13C2 PFDA	50-150
PFOSA = 13C8 FOSA	50-150
d3NMFOS = d3-NMeFOSAA	50-150
PFUnA = 13C2 PFUnA	50-150
d5NEFOS = d5-NEtFOSAA	50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFDoA #	PFTDA #
CD-1	480-198722-1	72	72
CD-1RA	480-198722-2	70	73
MW-1B	480-198722-3	77	78
MW-1A	480-198818-1	91	86
MW-2A	480-198818-2	79	75
MW-2B	480-198818-3	80	88
MW-6A	480-198818-4	72	56
MW-6B	480-198818-5	80	87
	MB 200-180717/1-A	81	83
	LCS 200-180717/2-A	92	90
	LCSD 200-180717/3-A	77	76

	QC LIMITS
PFDoA = 13C2 PFDoA	50-150
PFTDA = 13C2 PFTeDA	50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water Level: Low Lab File ID: PA220613A07.d

Lab ID: LCS 200-180717/2-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	39.9	100	70-130	
Perfluoropentanoic acid (PFPeA)	40.0	39.8	99	70-130	
Perfluorohexanoic acid (PFHxA)	40.0	40.3	101	70-130	
Perfluoroheptanoic acid (PFHpA)	40.0	41.1	103	70-130	
Perfluorooctanoic acid (PFOA)	40.0	41.0	102	70-130	
Perfluorononanoic acid (PFNA)	40.0	41.7	104	70-130	
Perfluorodecanoic acid (PFDA)	40.0	39.2	98	70-130	
Perfluoroundecanoic acid (PFUnA)	40.0	41.9	105	70-130	
Perfluorododecanoic acid (PFDoA)	40.0	35.7	89	70-130	
Perfluorotridecanoic acid (PFTriA)	40.0	39.9	100	70-130	
Perfluorotetradecanoic acid (PFTeA)	40.0	35.1	88	70-130	
Perfluorobutanesulfonic acid (PFBS)	35.4	34.8	99	70-130	
Perfluorohexanesulfonic acid (PFHxS)	36.4	36.3	100	70-130	
Perfluoroheptanesulfonic acid (PFHpS)	38.1	39.3	103	70-130	
Perfluorodecanesulfonic acid (PFDS)	38.6	37.6	98	70-130	
Perfluorooctanesulfonic acid (PFOS)	37.1	37.8	102	70-130	
Perfluorooctanesulfonamide (FOSA)	40.0	38.5	96	70-130	
13C8 FOSA	50.0	40.6	81	50-150	
13C4 PFBA	50.0	57.1	114	50-150	
13C5 PFPeA	50.0	55.9	112	50-150	
13C2 PFHxA	50.0	52.3	105	50-150	
13C4 PFHpA	50.0	50.1	100	50-150	
13C4 PFOA	50.0	48.7	97	50-150	
13C5 PFNA	50.0	48.0	96	50-150	
13C2 PFDA	50.0	47.9	96	50-150	
13C2 PFUnA	50.0	47.6	95	50-150	
13C2 PFDoA	50.0	46.2	92	50-150	
13C2 PFTeDA	50.0	44.9	90	50-150	
13C3 PFBS	46.5	46.5	100	50-150	
18O2 PFHxS	47.3	43.4	92	50-150	
13C4 PFOS	47.8	41.3	86	50-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	38.4	96	70-130	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water Level: Low Lab File ID: PA220613A07.d

Lab ID: LCS 200-180717/2-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	39.0	98	70-130	
d3-NMeFOSAA	50.0	60.2	120	50-150	
d5-NEtFOSAA	50.0	58.5	117	50-150	
6:2 FTS	37.9	41.8	110	60-140	
8:2 FTS	38.3	39.9	104	70-130	
M2-6:2 FTS	47.5	43.2	91	50-150	
M2-8:2 FTS	47.9	44.6	93	50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water Level: Low Lab File ID: PA220613A08.d

Lab ID: LCSD 200-180717/3-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	41.2	103	3	30	70-130	
Perfluoropentanoic acid (PFPeA)	40.0	41.3	103	4	30	70-130	
Perfluorohexanoic acid (PFHxA)	40.0	40.4	101	0	30	70-130	
Perfluoroheptanoic acid (PFHpA)	40.0	43.1	108	5	30	70-130	
Perfluorooctanoic acid (PFOA)	40.0	39.2	98	5	30	70-130	
Perfluorononanoic acid (PFNA)	40.0	42.4	106	2	30	70-130	
Perfluorodecanoic acid (PFDA)	40.0	43.0	108	9	30	70-130	
Perfluoroundecanoic acid (PFUnA)	40.0	43.1	108	3	30	70-130	
Perfluorododecanoic acid (PFDoA)	40.0	41.4	104	15	30	70-130	
Perfluorotridecanoic acid (PFTriA)	40.0	41.7	104	4	30	70-130	
Perfluorotetradecanoic acid (PFTeA)	40.0	37.4	93	6	30	70-130	
Perfluorobutanesulfonic acid (PFBS)	35.4	36.4	103	4	30	70-130	
Perfluorohexanesulfonic acid (PFHxS)	36.4	37.1	102	2	30	70-130	
Perfluoroheptanesulfonic acid (PFHpS)	38.1	39.7	104	1	30	70-130	
Perfluorodecanesulfonic acid (PFDS)	38.6	34.8	90	8	30	70-130	
Perfluorooctanesulfonic acid (PFOS)	37.1	38.2	103	1	30	70-130	
Perfluorooctanesulfonamide (FOSA)	40.0	40.2	101	4	30	70-130	
13C8 FOSA	50.0	35.3	71			50-150	
13C4 PFBA	50.0	57.0	114			50-150	
13C5 PFPeA	50.0	53.3	107			50-150	
13C2 PFHxA	50.0	52.6	105			50-150	
13C4 PFHpA	50.0	49.7	99			50-150	
13C4 PFOA	50.0	48.7	97			50-150	
13C5 PFNA	50.0	47.5	95			50-150	
13C2 PFDA	50.0	46.7	93			50-150	
13C2 PFUnA	50.0	42.9	86			50-150	
13C2 PFDoA	50.0	38.5	77			50-150	
13C2 PFTeDA	50.0	38.2	76			50-150	
13C3 PFBS	46.5	42.7	92			50-150	
18O2 PFHxS	47.3	41.8	88			50-150	
13C4 PFOS	47.8	40.8	85			50-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	39.4	98	3	30	70-130	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water Level: Low Lab File ID: PA220613A08.d

Lab ID: LCSD 200-180717/3-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	37.8	95	3	30	70-130	
d3-NMeFOSAA	50.0	56.4	113			50-150	
d5-NEtFOSAA	50.0	54.0	108			50-150	
6:2 FTS	37.9	41.9	110	0	30	60-140	
8:2 FTS	38.3	42.4	111	6	30	70-130	
M2-6:2 FTS	47.5	42.6	90			50-150	
M2-8:2 FTS	47.9	42.9	90			50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM IV
PFAS METHOD BLANK SUMMARY

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Lab File ID: PA220613A06.d Lab Sample ID: MB 200-180717/1-A

Matrix: Water Date Extracted: 06/13/2022 08:55

Instrument ID: LC812 Date Analyzed: 06/13/2022 17:49

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-180717/2-A	PA220613A07.d	06/13/2022 17:58
	LCSD 200-180717/3-A	PA220613A08.d	06/13/2022 18:06
CD-1	480-198722-1	PA220613A14.d	06/13/2022 18:55
CD-1RA	480-198722-2	PA220613A15.d	06/13/2022 19:03
MW-1B	480-198722-3	PA220613A16.d	06/13/2022 19:11
MW-1A	480-198818-1	PA220613A18.d	06/13/2022 19:27
MW-2A	480-198818-2	PA220613A19.d	06/13/2022 19:36
MW-2B	480-198818-3	PA220613A20.d	06/13/2022 19:44
MW-6A	480-198818-4	PA220613A21.d	06/13/2022 19:52
MW-6B	480-198818-5	PA220613A22.d	06/13/2022 20:00

FORM VIII
PFAS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Sample No.: ICIS 200-179551/8 Date Analyzed: 05/05/2022 15:38

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm)

Lab File ID (Standard): PA220505ICAL08.d Heated Purge: (Y/N) N

Calibration ID: 48131

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		1638661	3.50				
UPPER LIMIT		2457992	3.70				
LOWER LIMIT		819331	3.30				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 200-179551/11		1670380	3.49				
ICV 200-179551/12		2248819	3.48				
CCVLIS 200-180744/5		1740081	3.48				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM VIII
PFAS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Sample No.: CCVLIS 200-180744/5 Date Analyzed: 06/13/2022 17:41

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm)

Lab File ID (Standard): PA220613A05.d Heated Purge: (Y/N) N

Calibration ID: 48131

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
Low Level 12/24 HOUR STD		1740081	3.48				
UPPER LIMIT		2610122	3.68				
LOWER LIMIT		870041	3.28				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 200-180717/1-A		1756224	3.48				
LCS 200-180717/2-A		1689840	3.48				
LCSD 200-180717/3-A		1749467	3.49				
480-198722-1	CD-1	1729894	3.48				
480-198722-2	CD-1RA	1839806	3.48				
480-198722-3	MW-1B	1837488	3.48				
CCV 200-180744/17		1701058	3.48				
480-198818-1	MW-1A	1785789	3.48				
480-198818-2	MW-2A	1663774	3.48				
480-198818-3	MW-2B	1800792	3.48				
480-198818-4	MW-6A	1770868	3.48				
480-198818-5	MW-6B	1506235	3.48				
CCV 200-180744/32		1796643	3.49				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: CD-1 Lab Sample ID: 480-198722-1

Matrix: Water Lab File ID: PA220613A14.d

Analysis Method: 537 (modified) Date Collected: 06/06/2022 13:20

Extraction Method: 3535 Date Extracted: 06/13/2022 08:55

Sample wt/vol: 285.4(mL) Date Analyzed: 06/13/2022 18:55

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 180744 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
375-22-4	Perfluorobutanoic acid (PFBA)	ND		4.4	
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.8	
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.8	
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.8	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.8	
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.8	
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.8	
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.8	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.8	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.8	
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.8	
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4	
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4	
27619-97-2	6:2 FTS	ND		4.4	
39108-34-4	8:2 FTS	ND		1.8	

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: CD-1 Lab Sample ID: 480-198722-1

Matrix: Water Lab File ID: PA220613A14.d

Analysis Method: 537 (modified) Date Collected: 06/06/2022 13:20

Extraction Method: 3535 Date Extracted: 06/13/2022 08:55

Sample wt/vol: 285.4(mL) Date Analyzed: 06/13/2022 18:55

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 180744 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	82		50-150
STL00992	13C4 PFBA	111		50-150
STL01893	13C5 PFPeA	108		50-150
STL00993	13C2 PFHxA	108		50-150
STL01892	13C4 PFHpA	104		50-150
STL00990	13C4 PFOA	102		50-150
STL00995	13C5 PFNA	97		50-150
STL00996	13C2 PFDA	89		50-150
STL00997	13C2 PFUnA	81		50-150
STL00998	13C2 PFDoA	72		50-150
STL02116	13C2 PFTeDA	72		50-150
STL02337	13C3 PFBS	90		50-150
STL00994	18O2 PFHxS	90		50-150
STL00991	13C4 PFOS	80		50-150
STL02118	d3-NMeFOSAA	104		50-150
STL02117	d5-NEtFOSAA	99		50-150
STL02279	M2-6:2 FTS	91		50-150
STL02280	M2-8:2 FTS	88		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d
Lims ID: 480-198722-C-1-A
Client ID: CD-1
Sample Type: Client
Inject. Date: 13-Jun-2022 18:55:17 ALS Bottle#: 11 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-198722-C-1-A
Misc. Info.: 200-0051257-014 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 14-Jun-2022 14:34:58 Calib Date: 05-May-2022 15:54:29
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1636

First Level Reviewer: khanphomeea Date: 14-Jun-2022 13:29:47
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	2.085	2.085	0.0	0.599	2034715	1.38		111	7903	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.093	-0.008	1.000	3335	0.002171			0.4	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.400	0.0	0.689	1515554	1.35		108	2151	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.400	2.400	0.0	1.000	7029	0.005688			0.2	M
D 47 13C3 PFBS										
301.90 > 80.00	2.413	2.427	-0.014	0.693	1709424	1.05		90.3	183624	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.413	2.427	-0.014	1.000	6078	0.003792	Target=2.15		4.8	M
298.90 > 99.00	2.427	2.427	0.0	1.006	2227		2.73(1.07-3.22)		0.9	
D 7 13C2 PFHxA										
315.00 > 270.00	2.762	2.762	0.0	0.793	1555245	1.35		108	4385	
D 11 18O2 PFHxS										
403.00 > 84.00	3.121	3.121	0.0	0.896	1358891	1.07		90.2	2653	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.121	3.121	0.0	1.000	6534	0.005144	Target=3.53		18.0	
399.00 > 99.00	3.121	3.121	0.0	1.000	1735		3.77(1.76-5.29)		2.8	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.132	3.132	0.0	0.899	1614948	1.30		104	3174	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.143	3.132	0.011	1.004	3806	0.002915	Target=3.75		0.8	M
363.00 > 169.00	3.132	3.132	0.0	1.000	1530		2.49(1.87-5.62)		2.3	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.474	3.474	0.0	0.997	224791	1.08		91.1	502	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.482	3.474	0.008	1.003	3034	-0.0170			1.9	M
* 62 13C2 PFOA										
415.00 > 370.00	3.482	3.482	0.0		1729894	1.25			3052	
D 14 13C4 PFOA										M
417.00 > 372.00	3.482	3.482	0.0	1.000	1660386	1.27		102	1987	M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.482	3.482	0.0	1.000	3975	0.002672	Target=2.68		0.3	M
413.00 > 169.00	3.482	3.482	0.0	1.000	2064		1.93(1.34-4.02)		4.4	M
D 18 13C4 PFOS										
503.00 > 80.00	3.802	3.802	0.0	1.092	959748	0.9592		80.3	3217	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.802	3.802	0.0	1.000	1865	0.002175	Target=4.47		1.4	M
499.00 > 99.00	3.627	3.802	-0.175	0.954	824		2.26(2.24-6.71)		1.2	M
D 19 13C5 PFNA										
468.00 > 423.00	3.822	3.822	0.0	1.098	1722877	1.22		97.4	2674	
D 23 13C2 PFDA										M
515.00 > 470.00	4.127	4.127	0.0	1.185	1514051	1.11		88.9	2254	M
24 Perfluorodecanoic acid										RM
513.00 > 469.00	4.127	4.127	0.0	1.000	2956	0.002291	Target=9.31		1.3	RM
513.00 > 169.00	4.127	4.127	0.0	1.000	183		16.15(4.65-13.96)		1.0	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.138	4.127	0.011	1.003	100	0.000410			1.8	M
D 26 M2-8:2 FTS										M
529.00 > 81.00	4.127	4.127	0.0	1.185	262219	1.05		87.8	717	M
D 21 13C8 FOSA										M
506.00 > 78.00	4.196	4.195	0.001	1.205	1541910	1.03		82.2	1646	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.184	4.195	-0.011	0.997	226	0.000181			1.5	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.261	4.261	0.0	1.224	235656	1.30		104	1390	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.273	4.273	0.0	1.003	149	0.000869			1.4	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.398	4.387	0.011	1.003	549	0.000600	Target=9.41		0.4	M
563.00 > 169.00	4.365	4.387	-0.022	0.995	83		6.61(4.70-14.11)		1.5	M
D 30 13C2 PFUnA										M
565.00 > 520.00	4.387	4.387	0.0	1.260	1110188	1.01		81.1	1949	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.398	4.398	0.0	1.263	219795	1.24		99.5	1238	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.421	4.410	0.011	1.005	348	0.002110			3.8	M
D 36 13C2 PFDoA										M
615.00 > 570.00	4.622	4.633	-0.011	1.327	1044743	0.8938		71.5	1412	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.042	5.032	0.010	1.000	103	0.000971	Target=0.96		1.7	M
713.00 > 219.00	5.042	5.032	0.010	1.000	163		0.63(0.48-1.44)		5.2	M

Report Date: 14-Jun-2022 14:35:36 Chrom Revision: 2.3 18-May-2022 20:00:04
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.042	5.042	0.0	1.448	858346	0.8985		71.9	2042	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

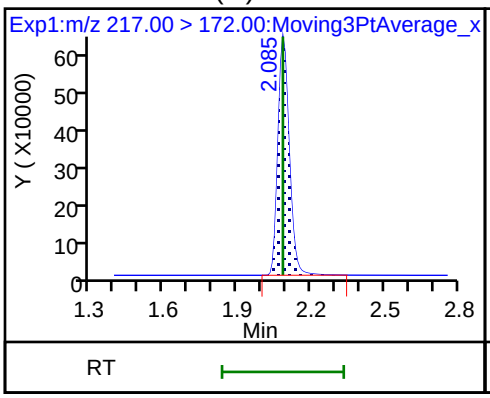
Report Date: 14-Jun-2022 14:35:36 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Burlington

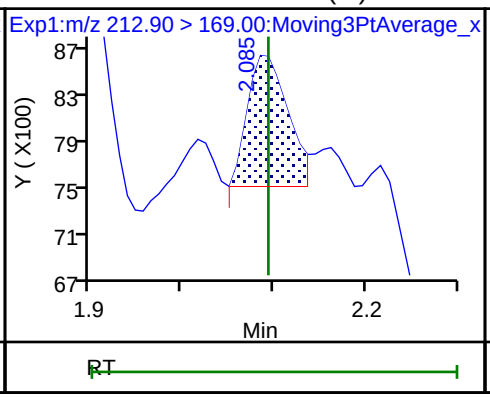
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d

Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		

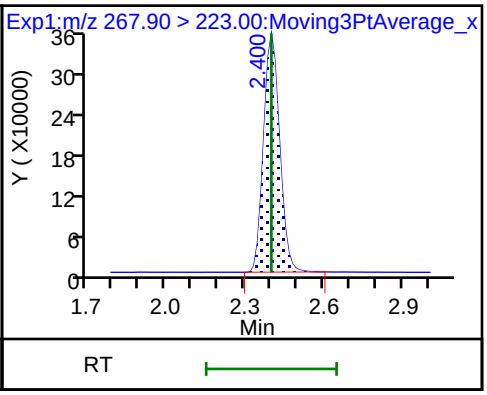
D 1 13C4 PFBA (M)



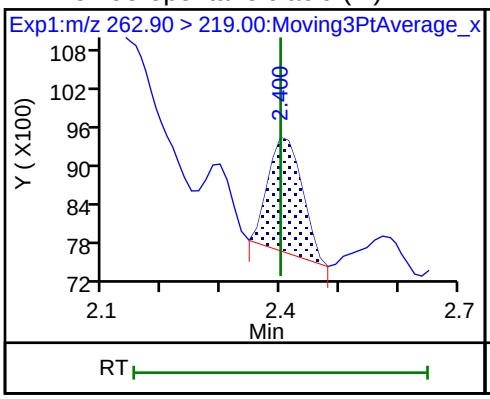
2 Perfluorobutanoic acid (M)



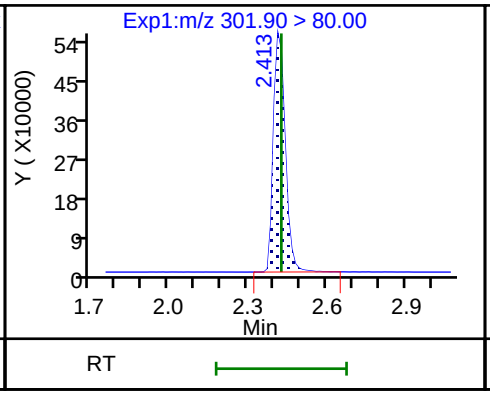
D 3 13C5 PFPeA



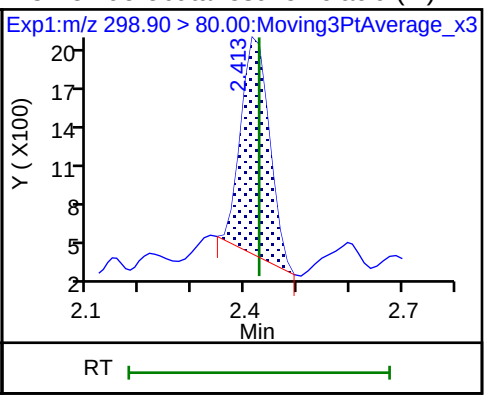
4 Perfluoropentanoic acid (M)



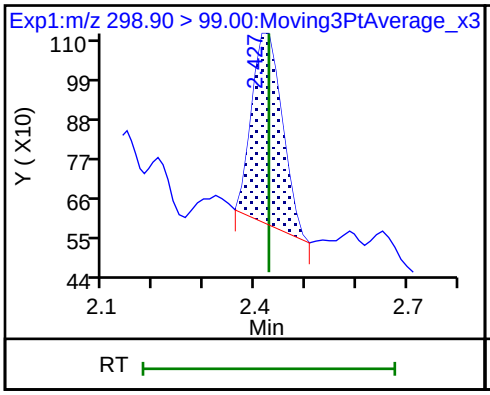
D 47 13C3 PFBS



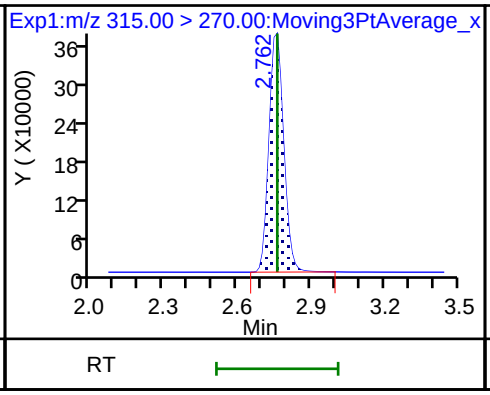
5 Perfluorobutanesulfonic acid (M)



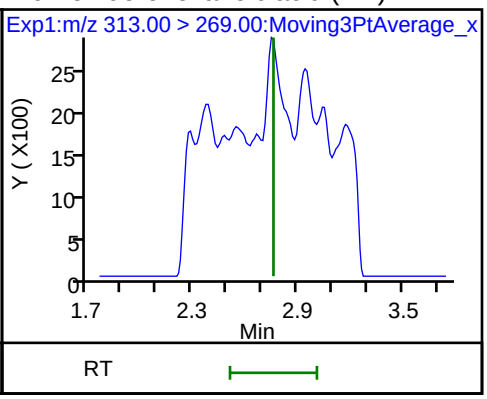
5 Perfluorobutanesulfonic acid



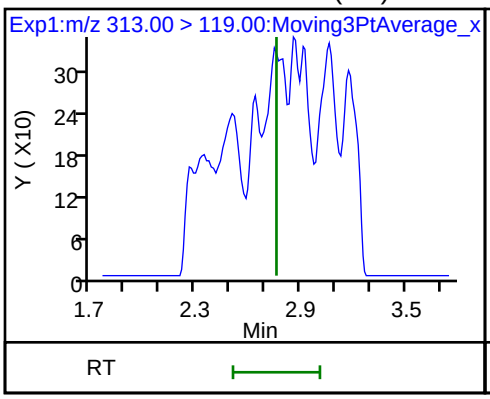
D 7 13C2 PFHxA



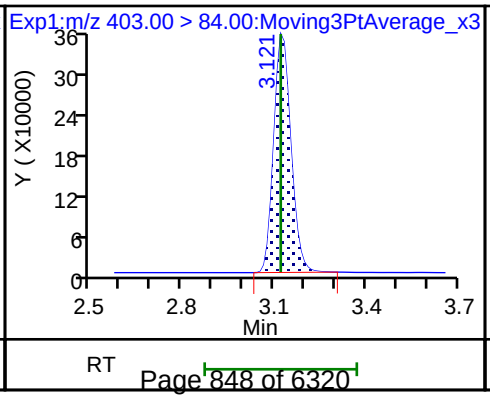
6 Perfluorohexanoic acid (ND)



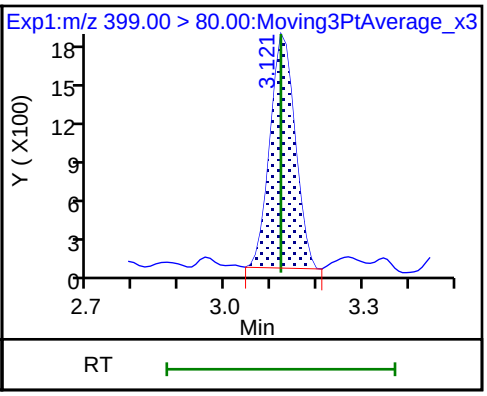
6 Perfluorohexanoic acid (ND)



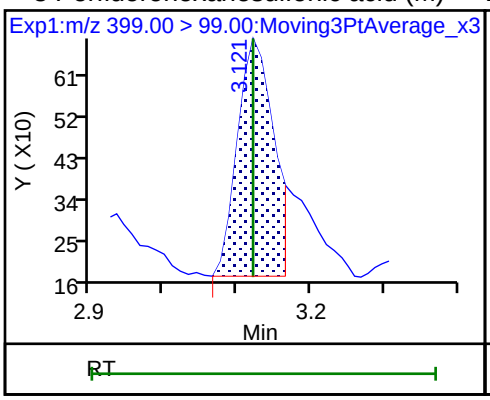
D 11 18O2 PFHxS



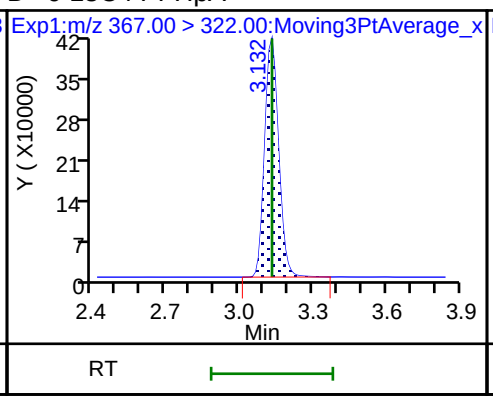
8 Perfluorohexanesulfonic acid



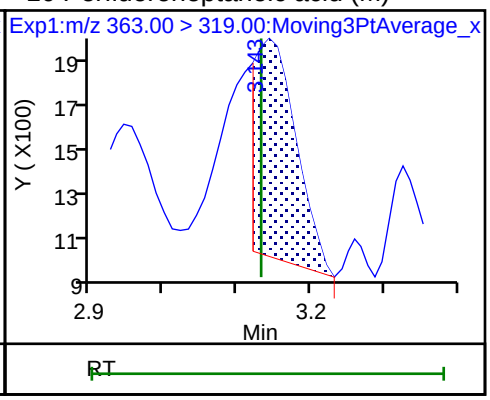
8 Perfluorohexanesulfonic acid (M)



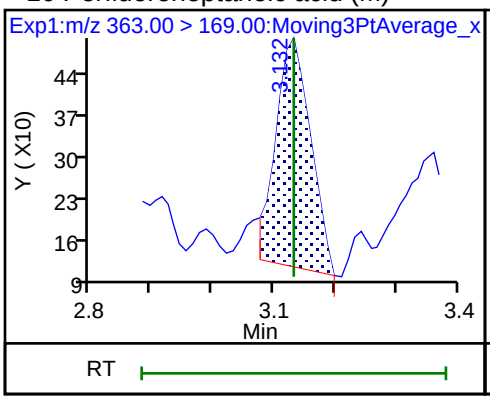
D 9 13C4 PFHpA



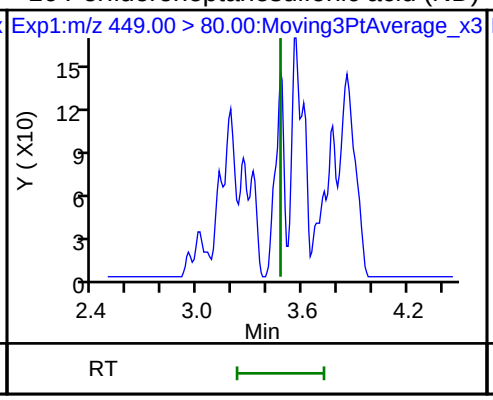
10 Perfluoroheptanoic acid (M)



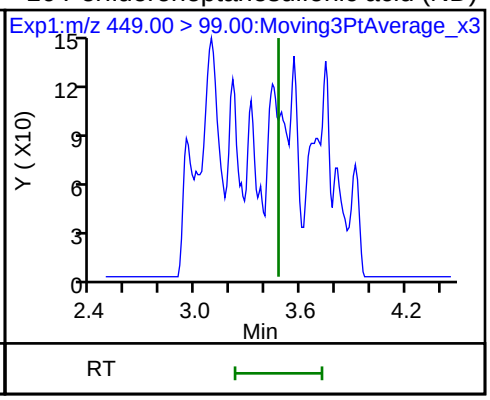
10 Perfluoroheptanoic acid (M)



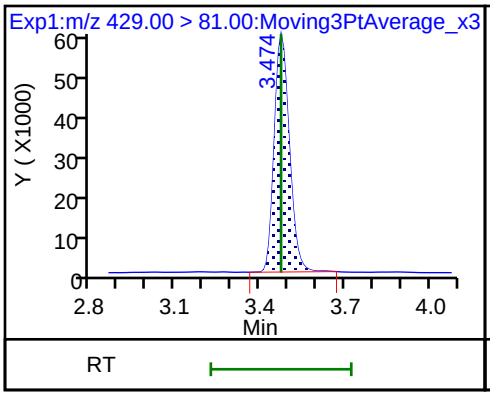
16 Perfluoroheptanesulfonic acid (ND)



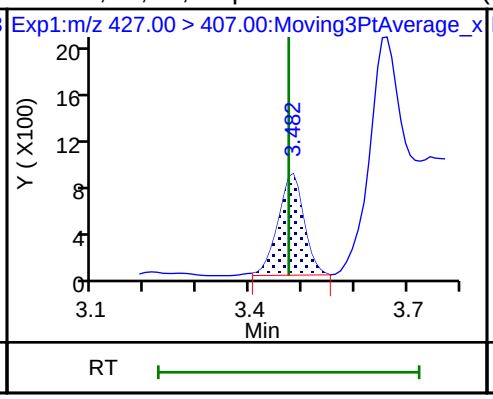
16 Perfluoroheptanesulfonic acid (ND)



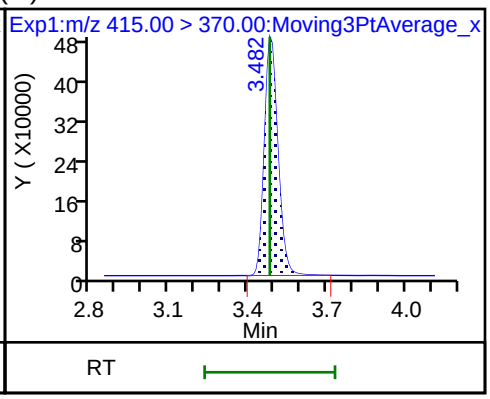
D 12 M2-6:2 FTS



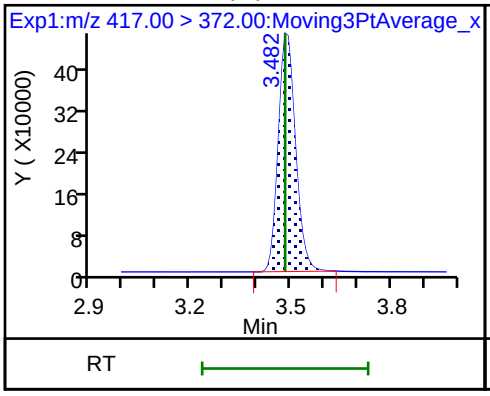
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



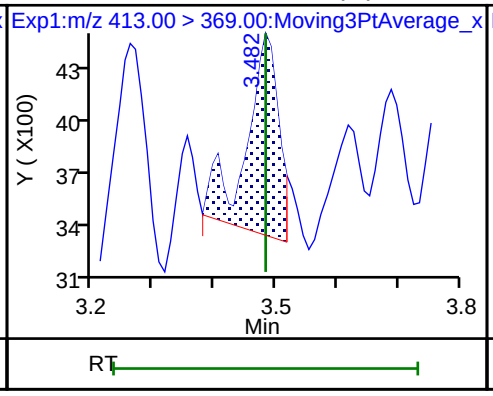
M2 13C2 PFOA



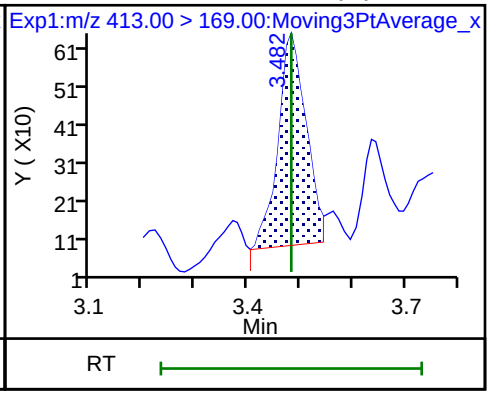
D 14 13C4 PFOA (M)



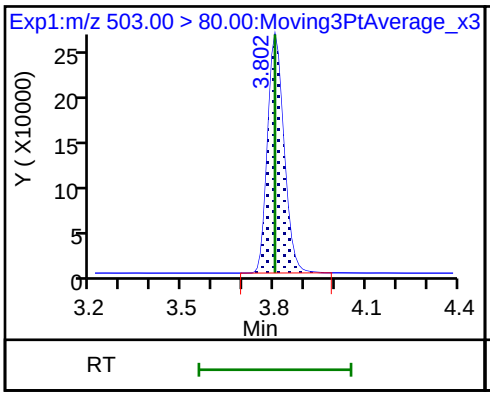
15 Perfluorooctanoic acid (M)



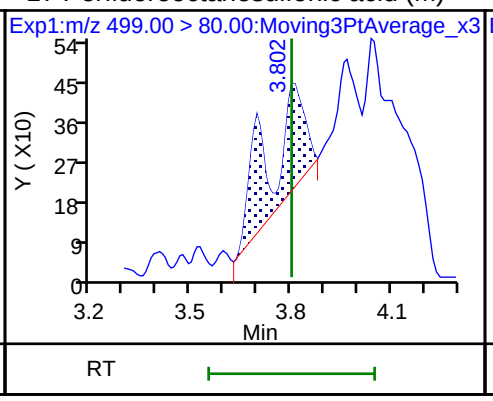
15 Perfluorooctanoic acid (M)



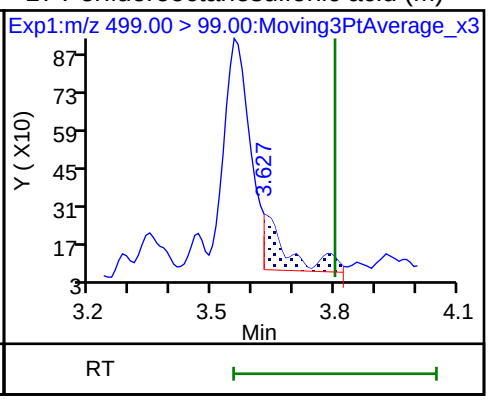
D 18 13C4 PFOS



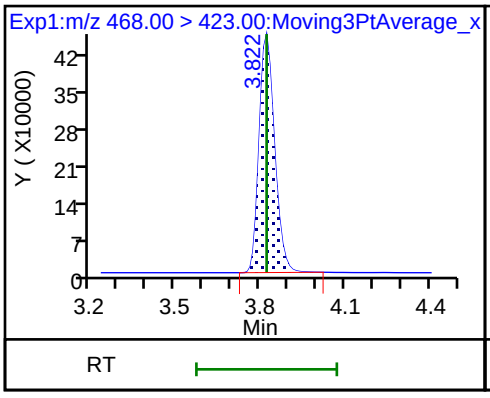
17 Perfluorooctanesulfonic acid (M)



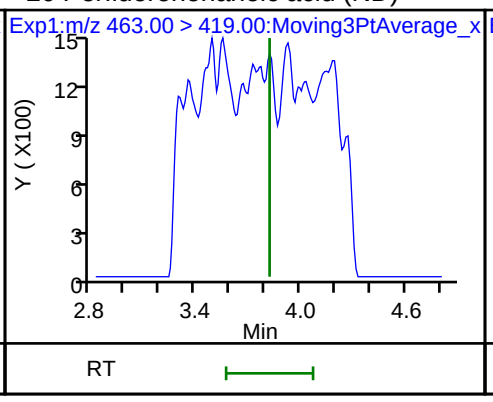
17 Perfluorooctanesulfonic acid (M)



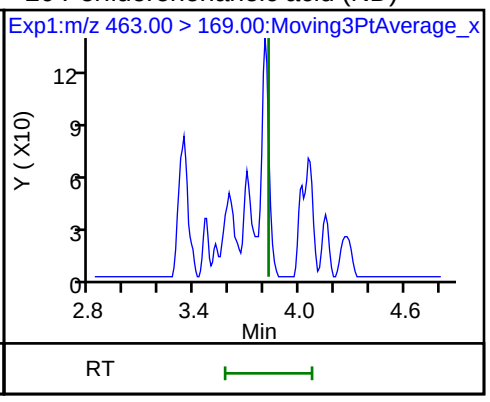
D 19 13C5 PFNA



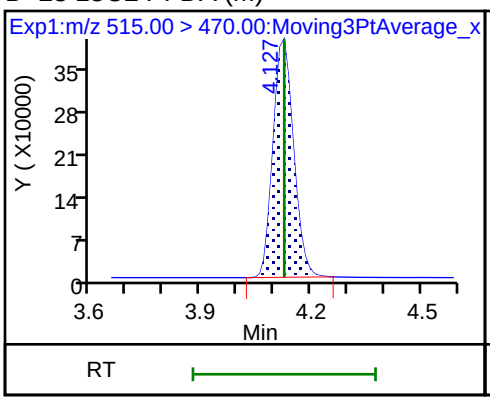
20 Perfluorononanoic acid (ND)



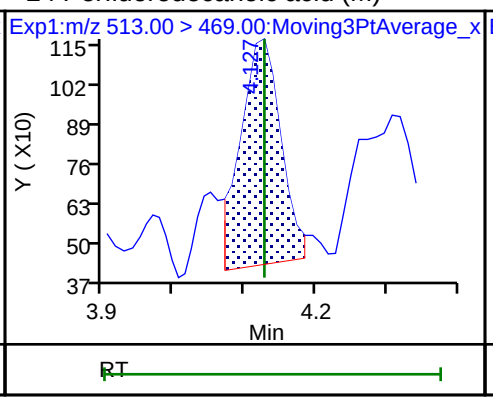
20 Perfluorononanoic acid (ND)



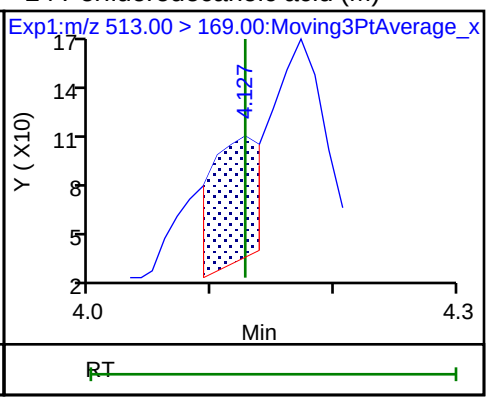
D 23 13C2 PFDA (M)



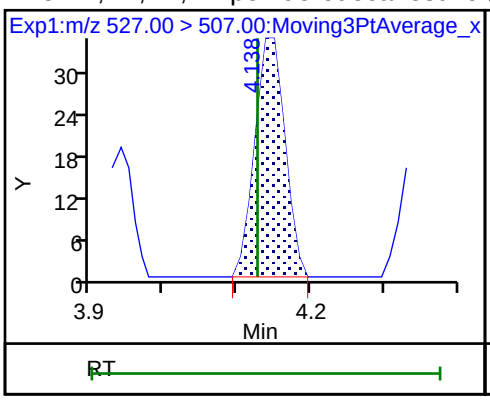
24 Perfluorodecanoic acid (M)



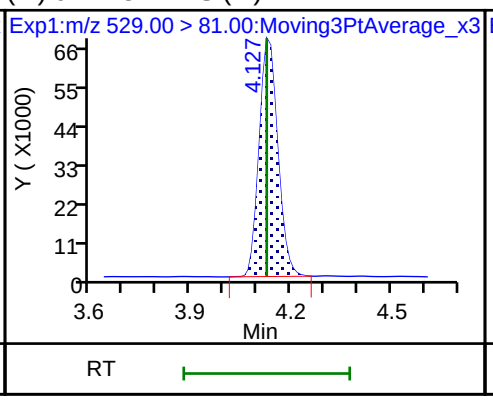
24 Perfluorodecanoic acid (M)



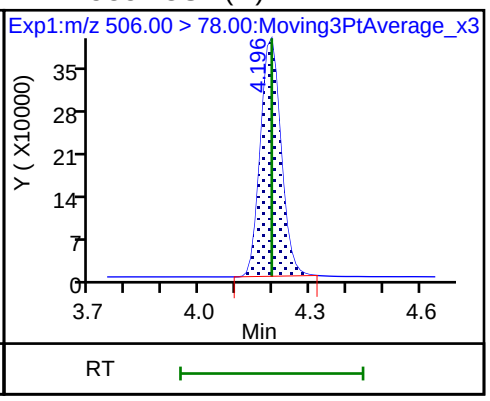
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



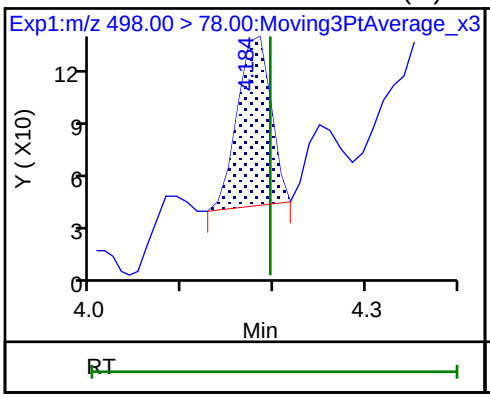
D 26 M2-8:2 FTS (M)



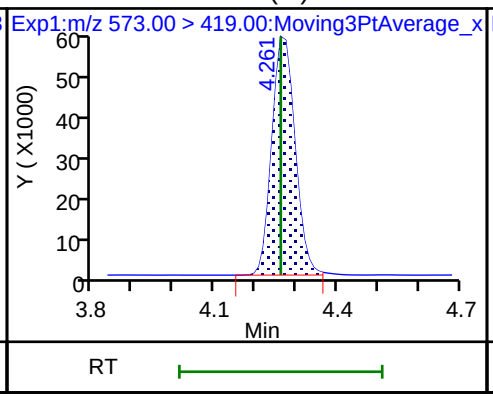
D 21 13C8 FOSA (M)



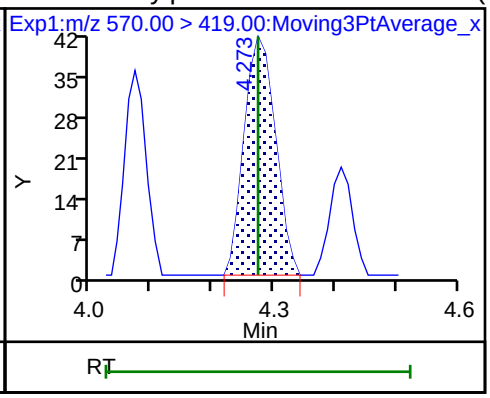
22 Perfluorooctanesulfonamide (M)



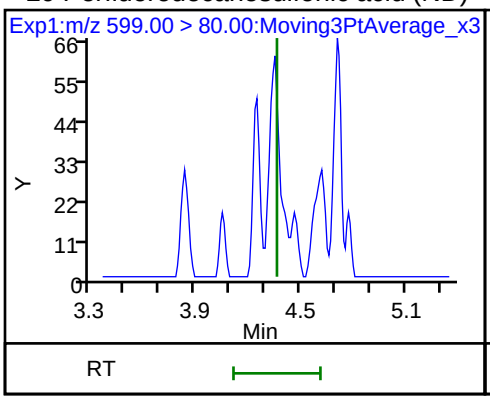
D 27 d3-NMeFOSAA (M)



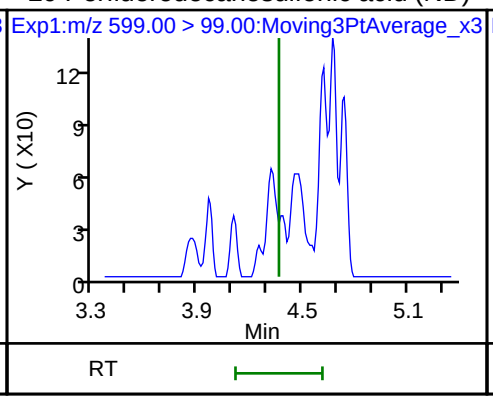
28 N-methylperfluorooctanesulfonami (M)



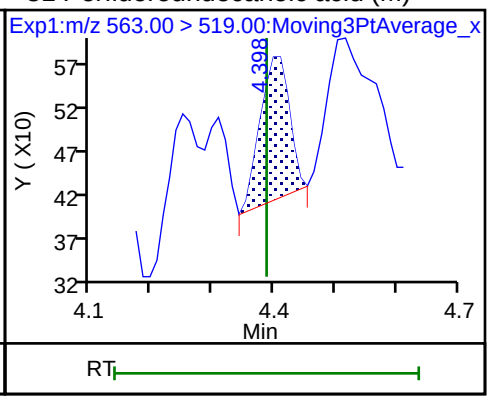
29 Perfluorodecanesulfonic acid (ND)



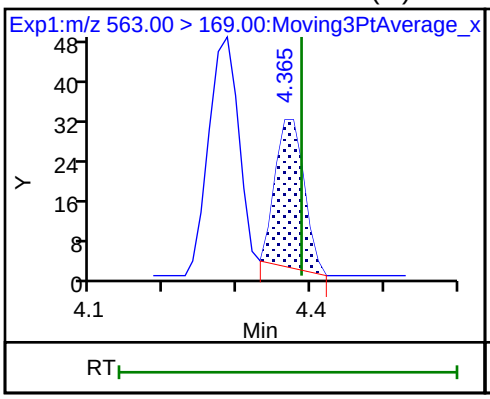
29 Perfluorodecanesulfonic acid (ND)



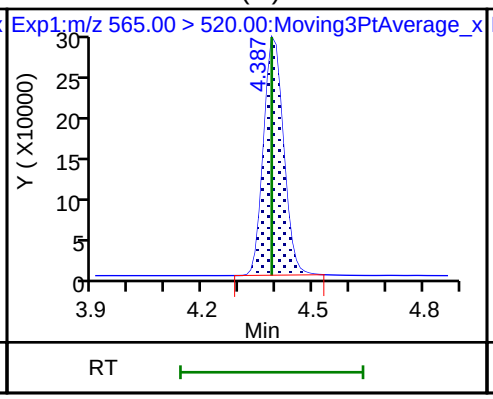
31 Perfluoroundecanoic acid (M)



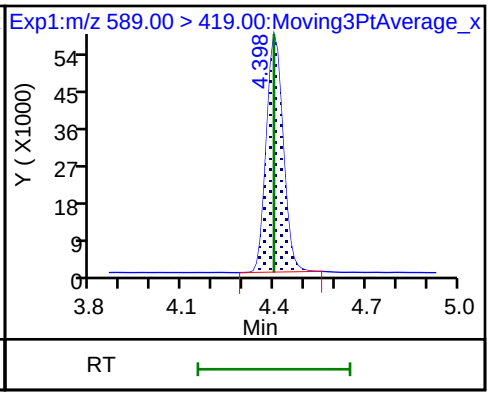
31 Perfluoroundecanoic acid (M)



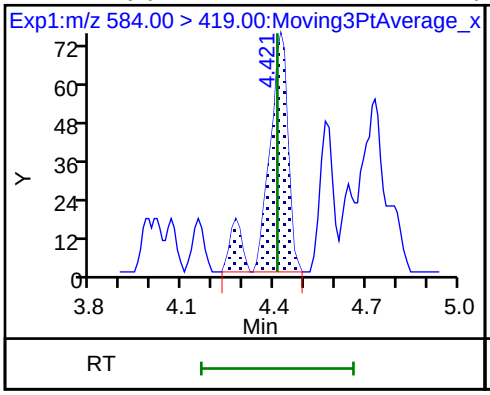
D 30 13C2 PFUnA (M)



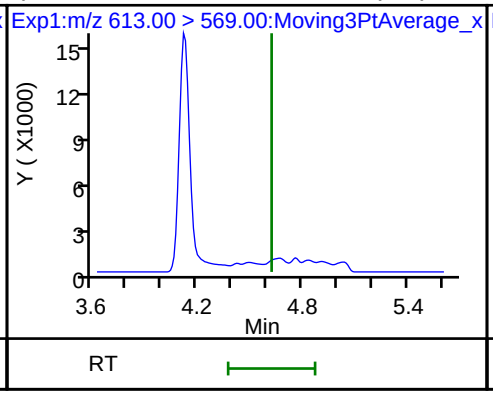
D 32 d5-NEtFOSAA



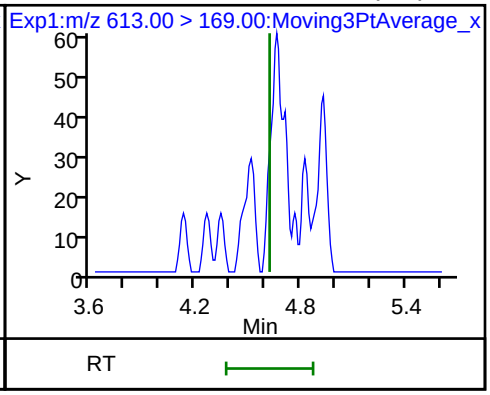
33 N-ethylperfluorooctanesulfonamid (M)



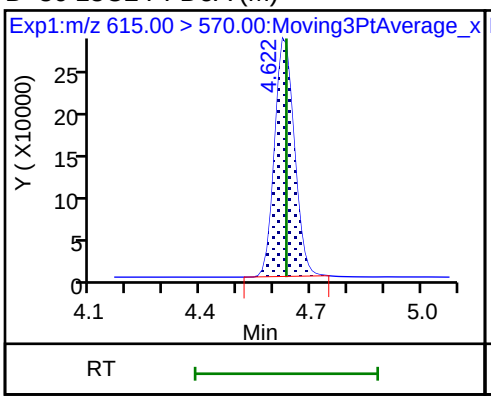
37 Perfluorododecanoic acid (ND)



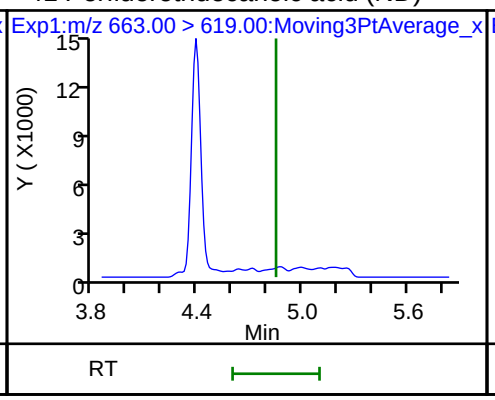
37 Perfluorododecanoic acid (ND)



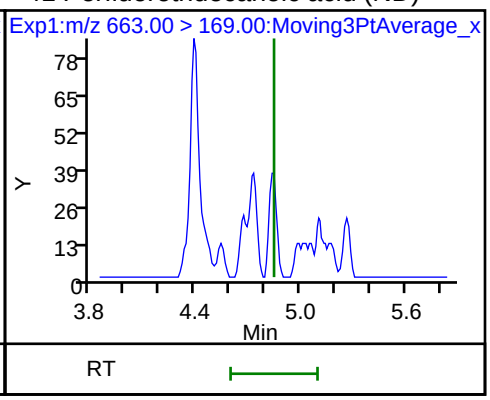
D 36 13C2 PFDoA (M)



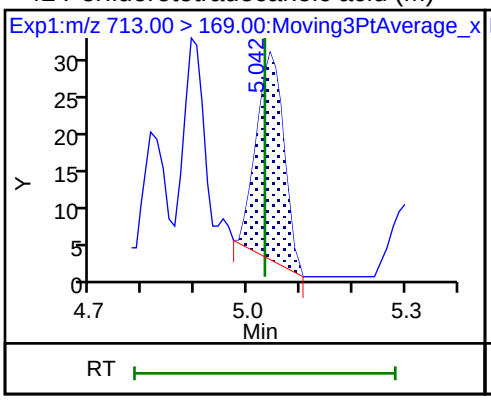
41 Perfluorotridecanoic acid (ND)



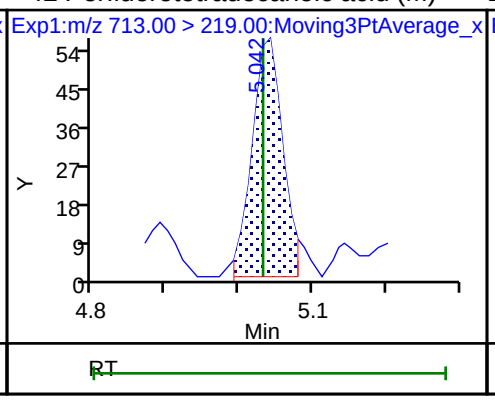
41 Perfluorotridecanoic acid (ND)



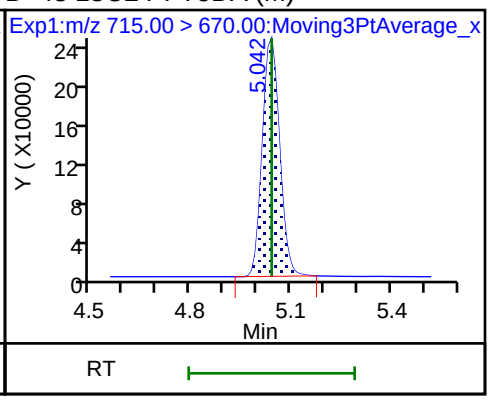
42 Perfluorotetradecanoic acid (M)



42 Perfluorotetradecanoic acid (M)



D 43 13C2 PFTeDA (M)



Eurofins Burlington

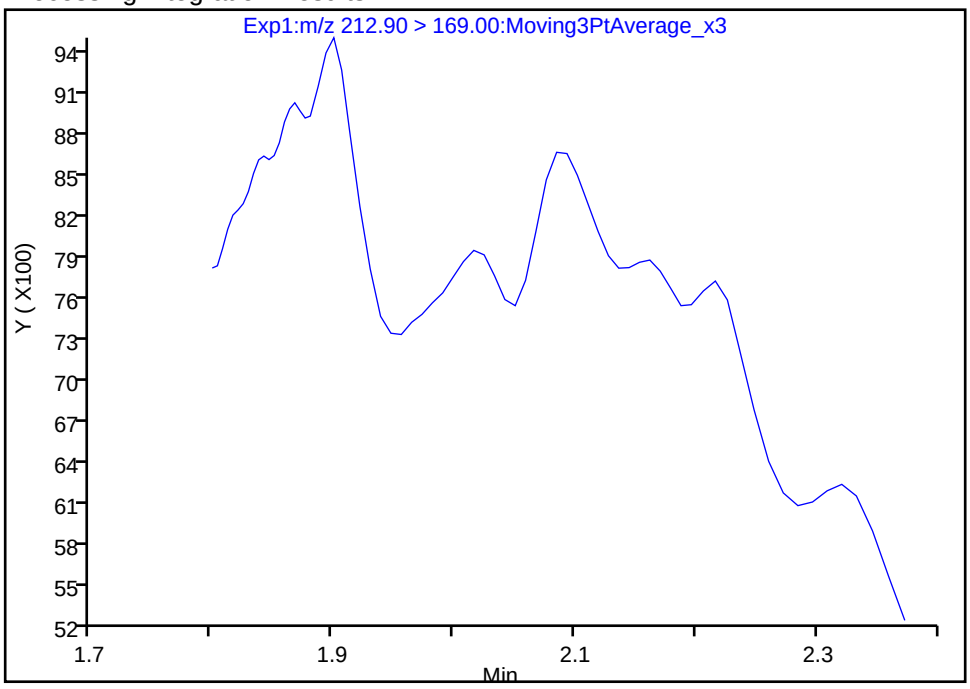
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

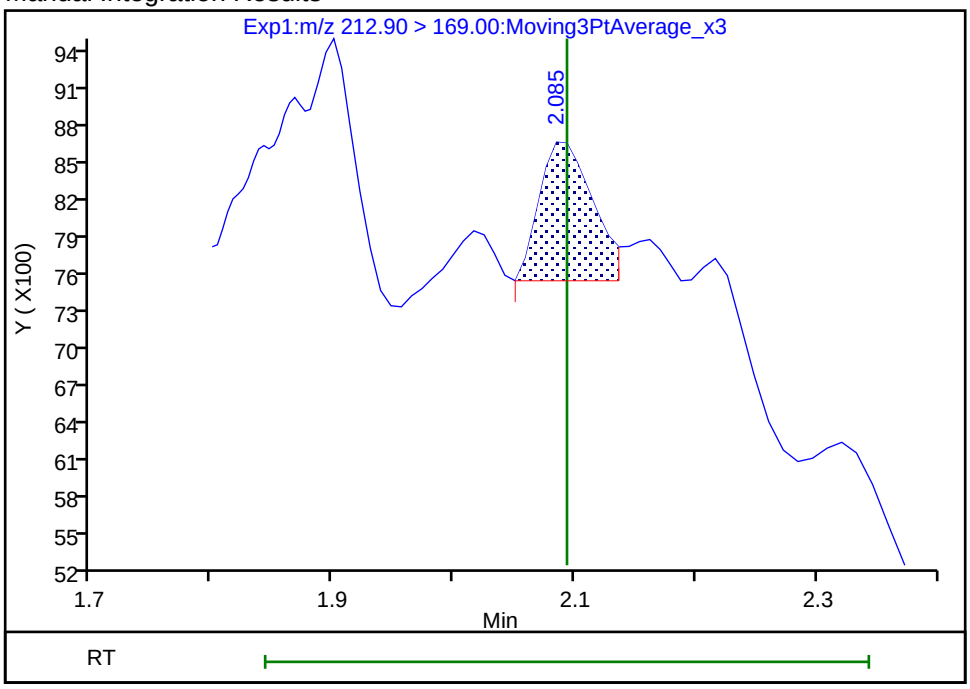
Not Detected
Expected RT: 2.09

Processing Integration Results



Manual Integration Results

RT: 2.08
Area: 3335
Amount: 0.002171
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:26:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

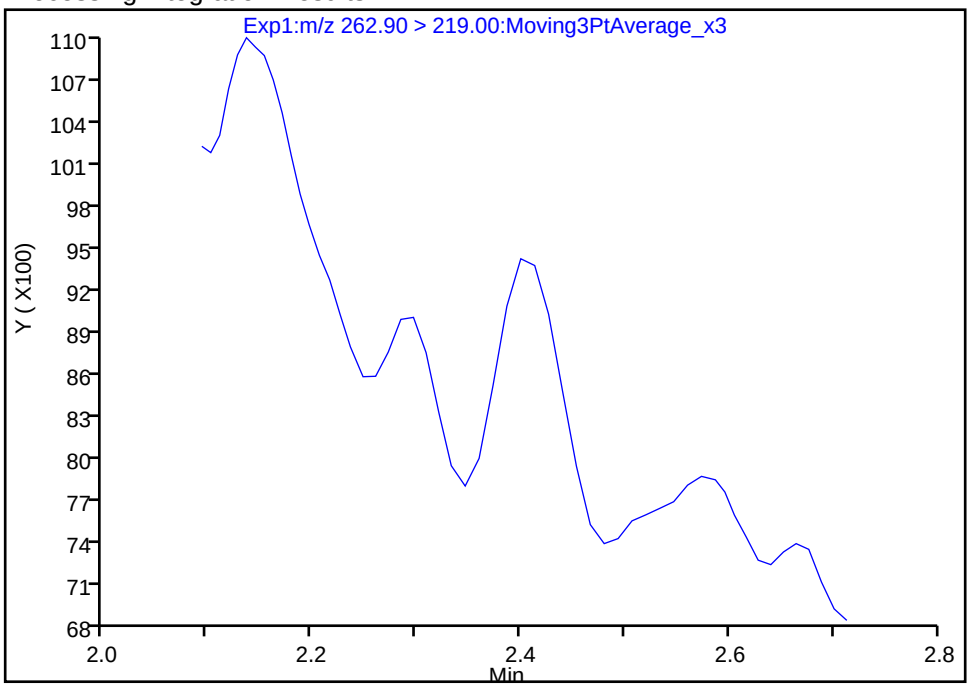
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

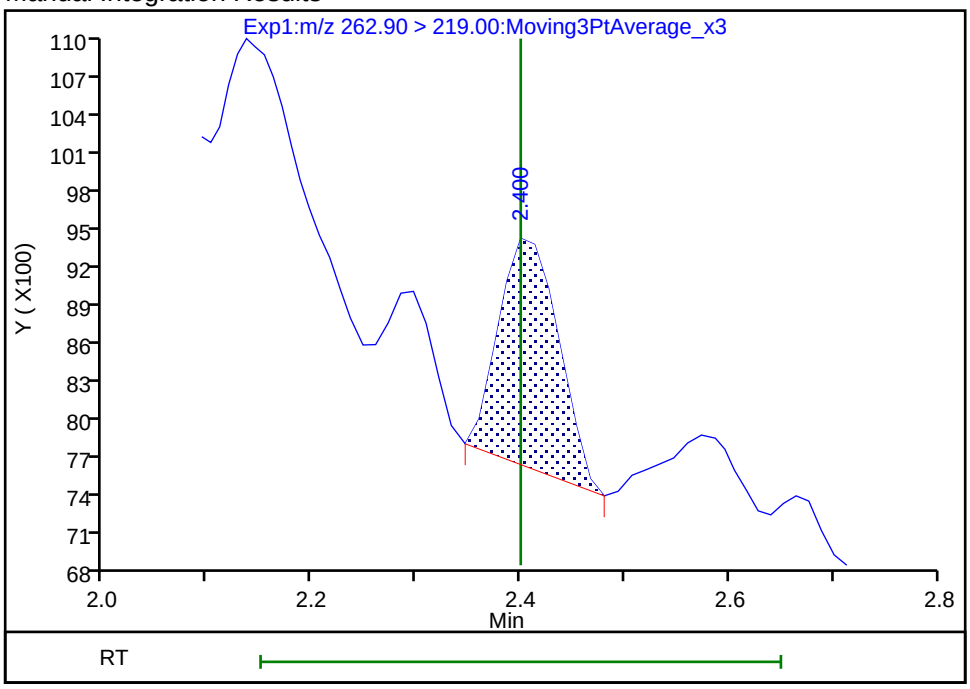
Not Detected
Expected RT: 2.40

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 7029
Amount: 0.005688
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:26:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

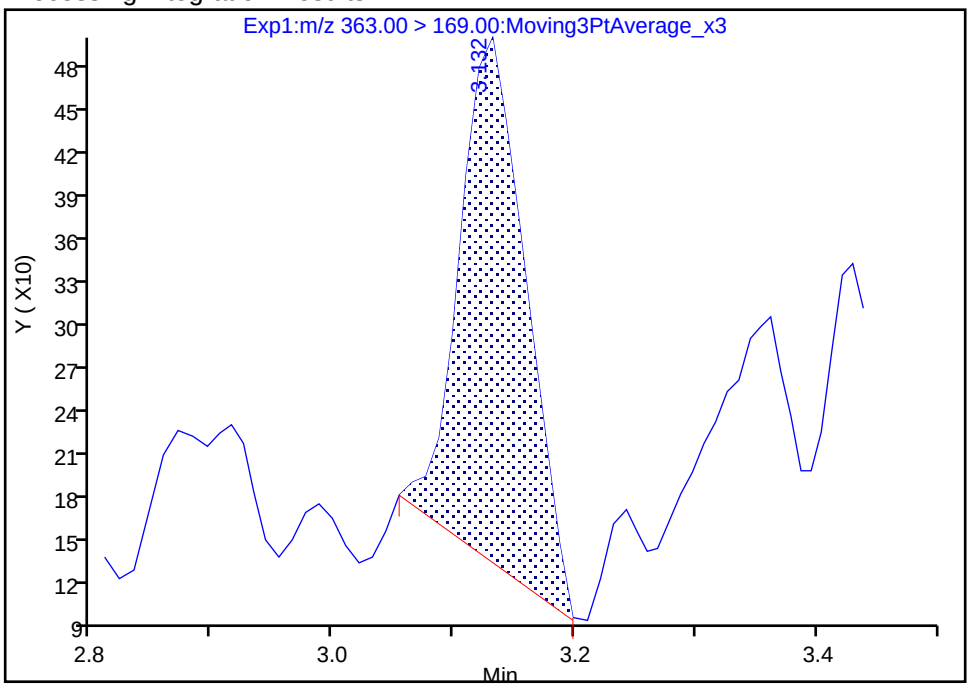
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

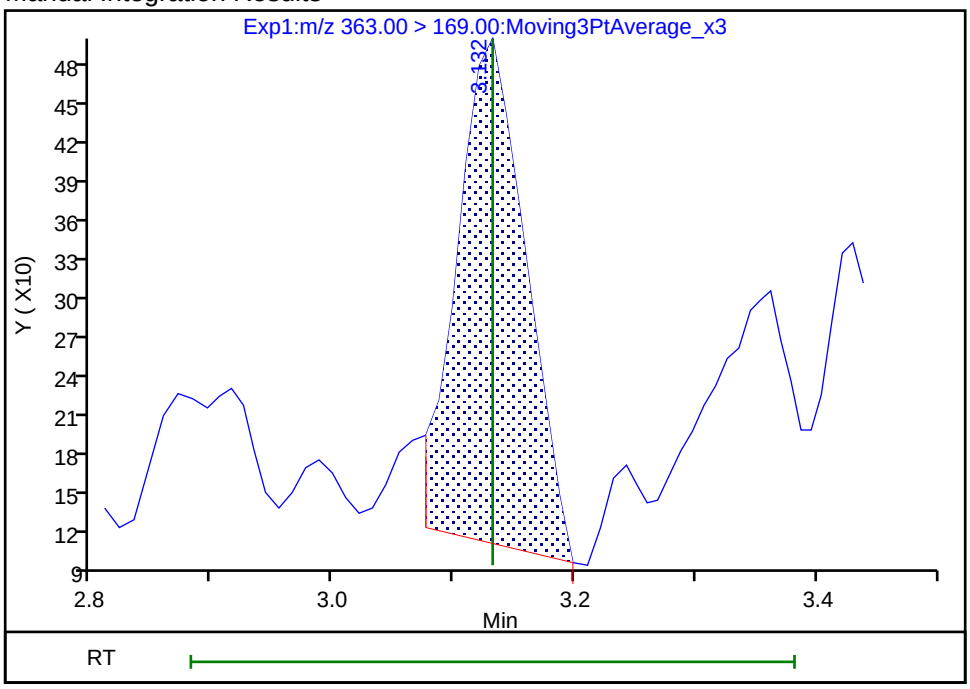
Processing Integration Results

RT: 3.13
Area: 1393
Amount: 0.004818
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 1530
Amount: 0.002915
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:27:04

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

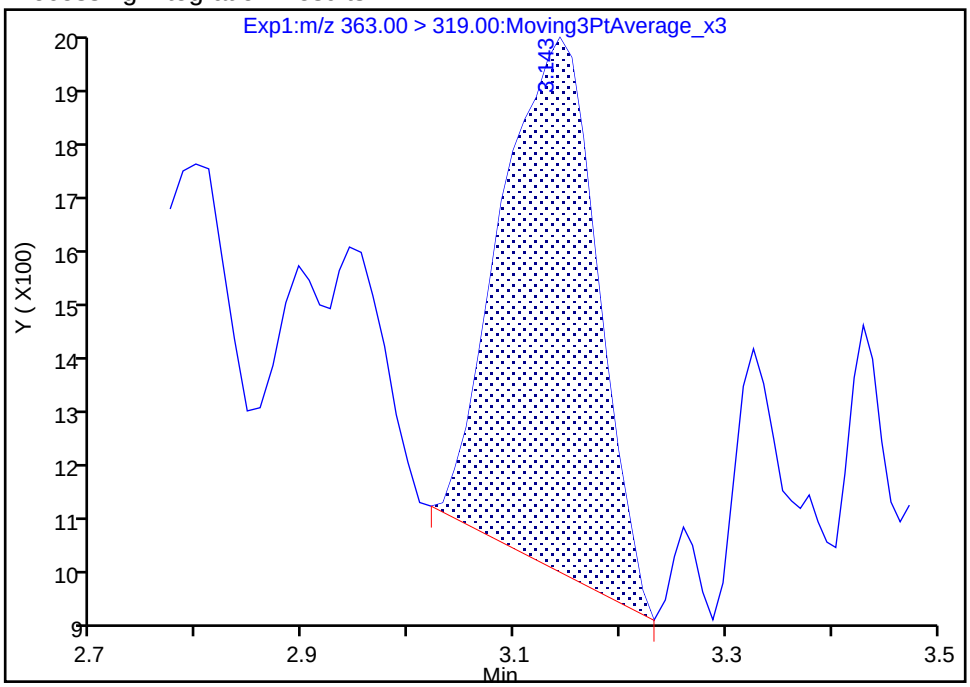
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

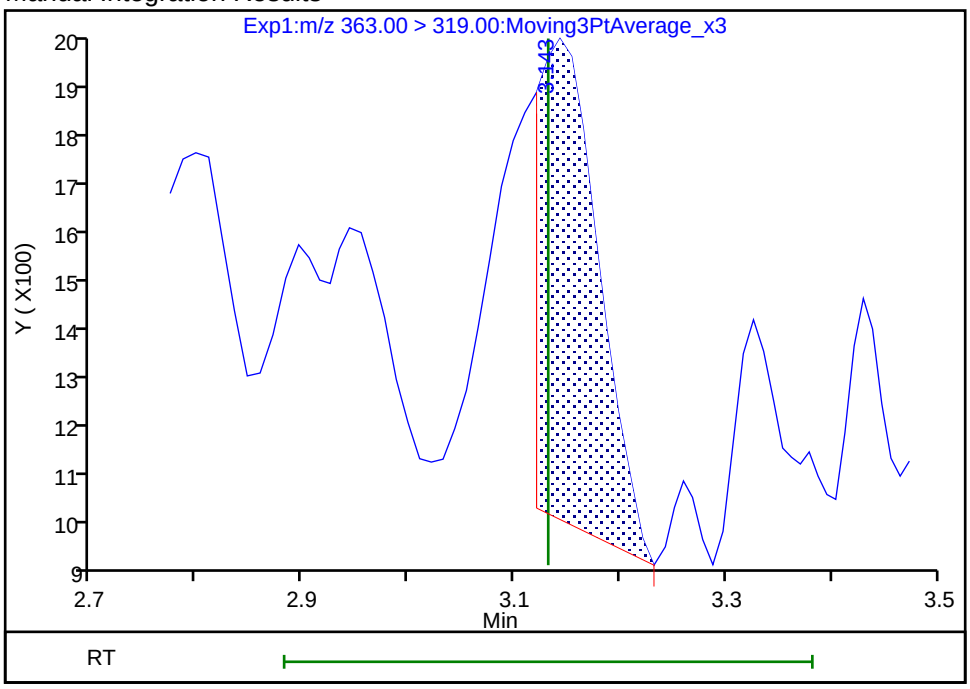
Processing Integration Results

RT: 3.14
Area: 6291
Amount: 0.004818
Amount Units: ng/ml



Manual Integration Results

RT: 3.14
Area: 3806
Amount: 0.002915
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:27:10

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

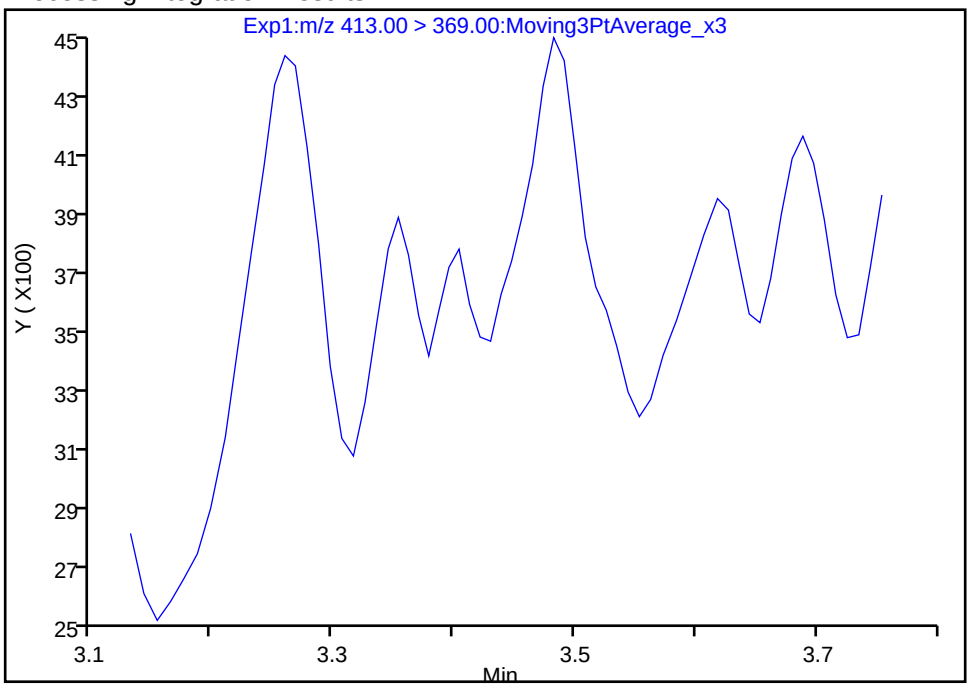
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

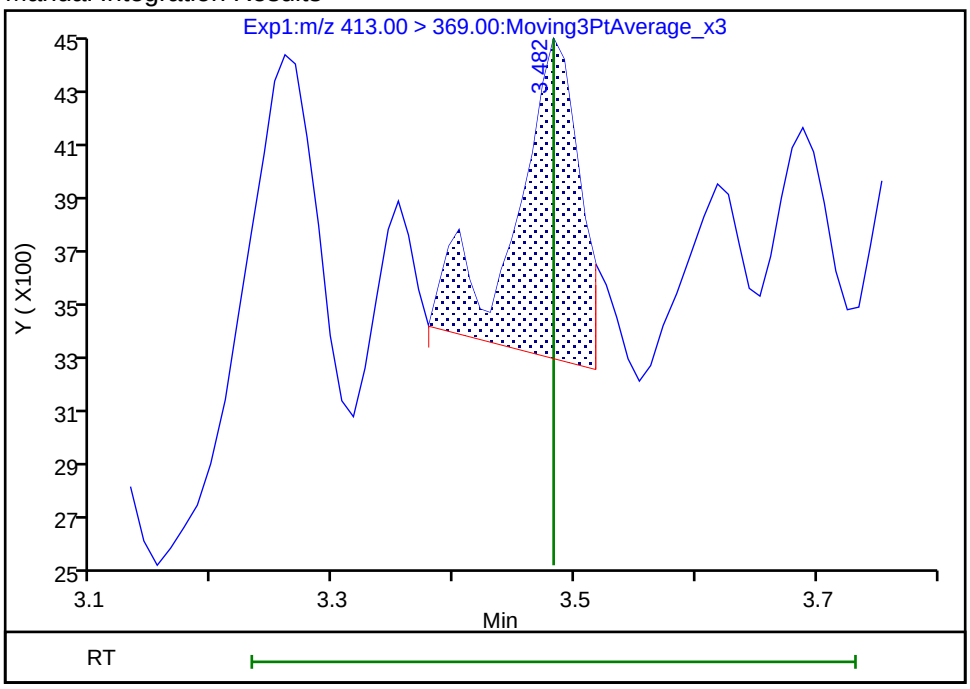
Not Detected
Expected RT: 3.48

Processing Integration Results



Manual Integration Results

RT: 3.48
Area: 3975
Amount: 0.002672
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:27:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

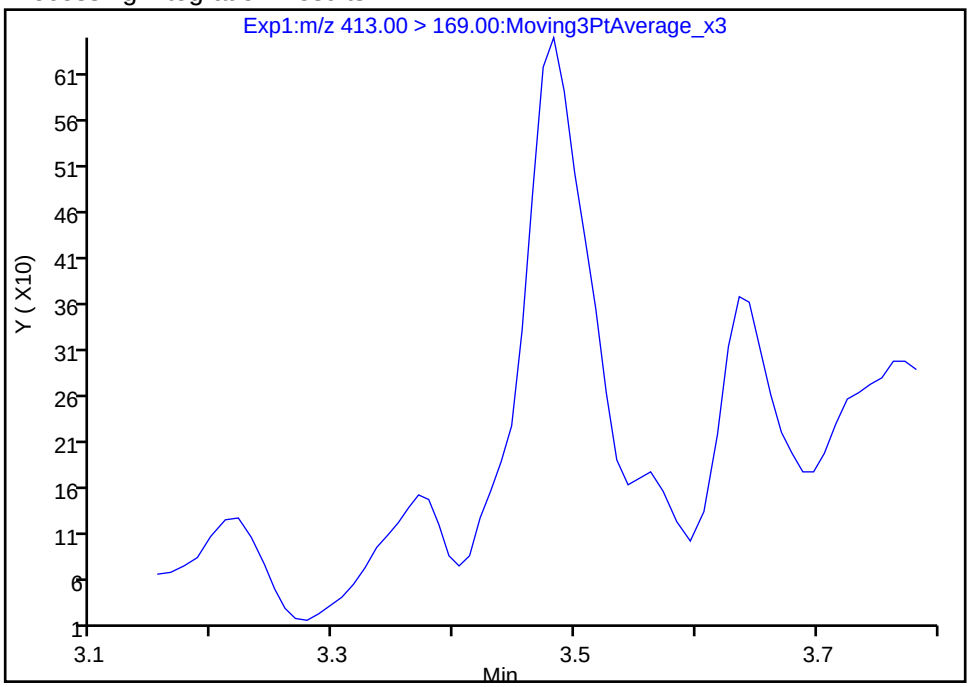
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

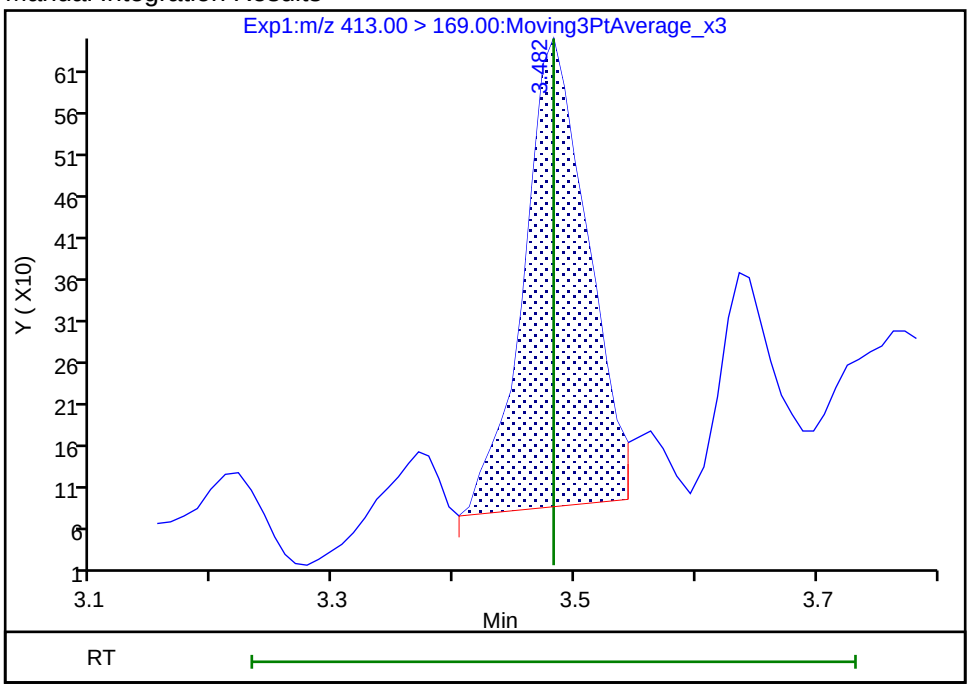
Processing Integration Results

Not Detected
Expected RT: 3.48



Manual Integration Results

RT: 3.48
Area: 2064
Amount: 0.002672
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:27:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

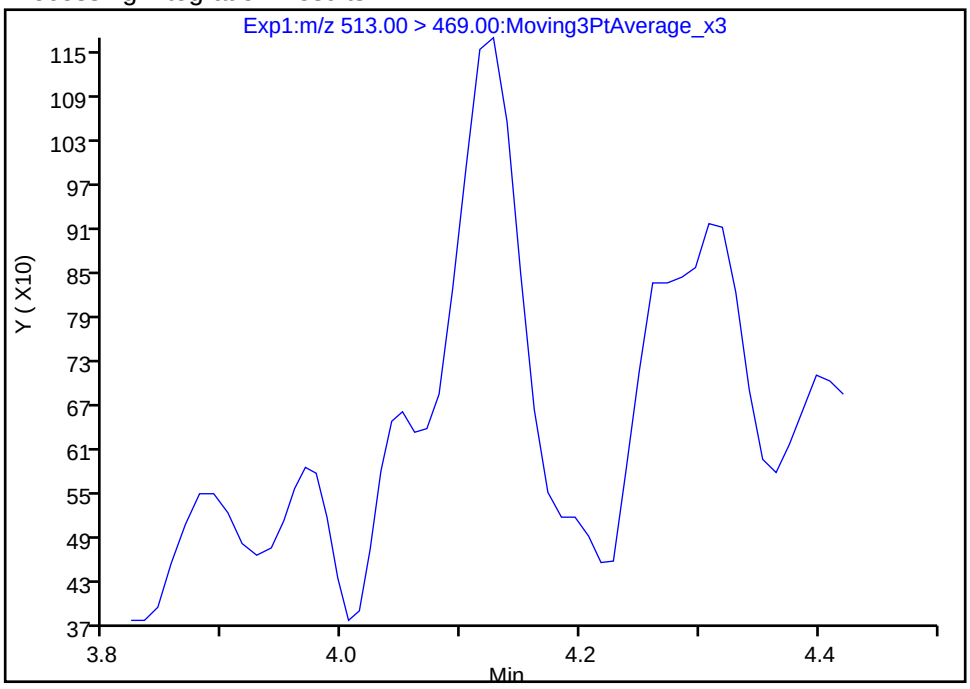
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

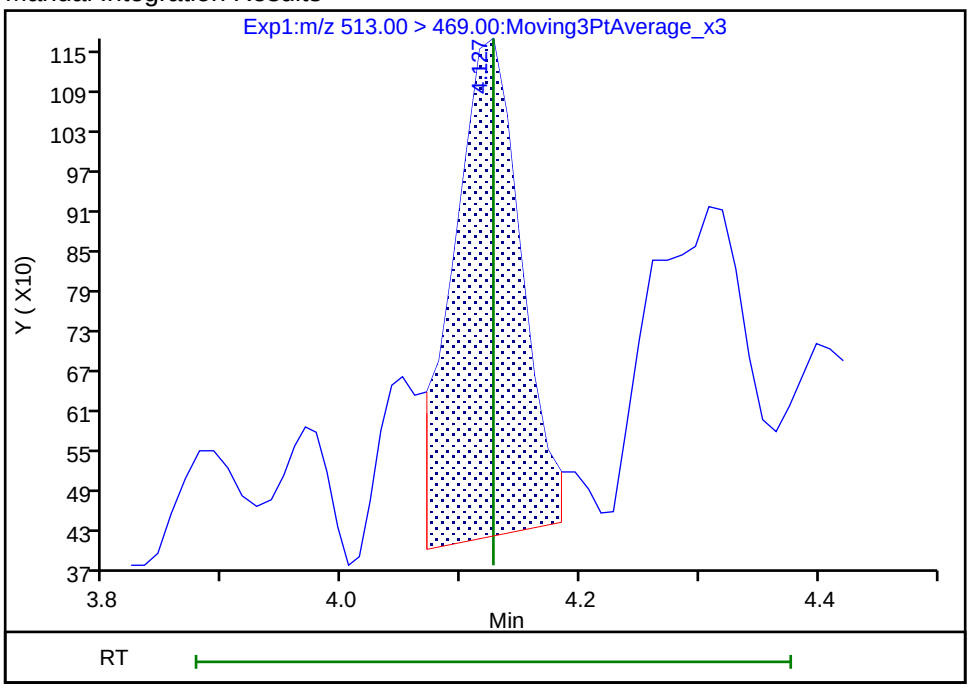
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.13
Area: 2956
Amount: 0.002291
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:40:18
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Burlington

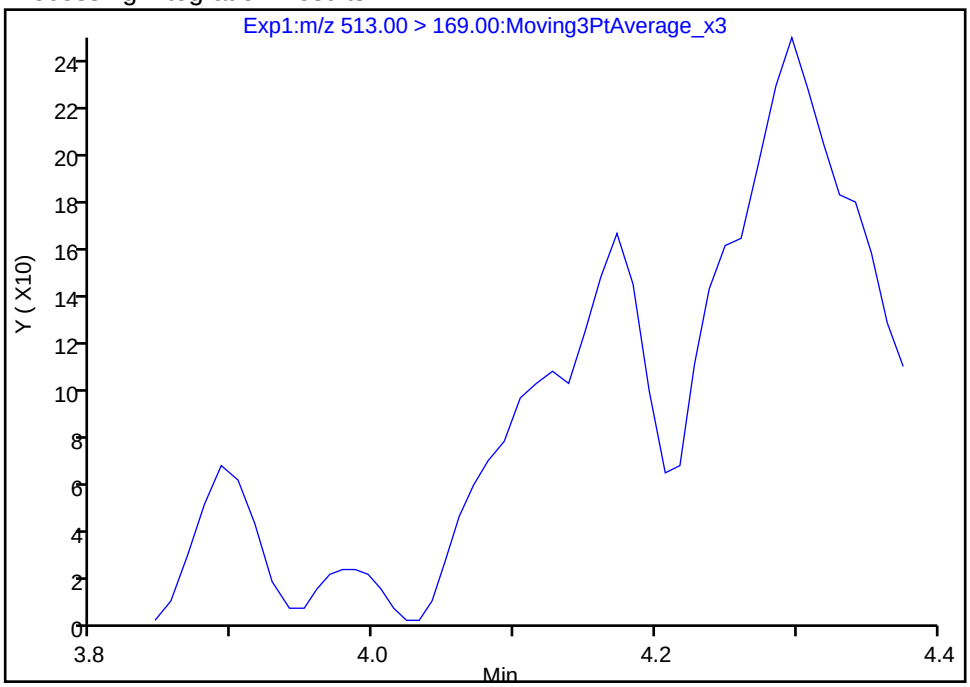
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

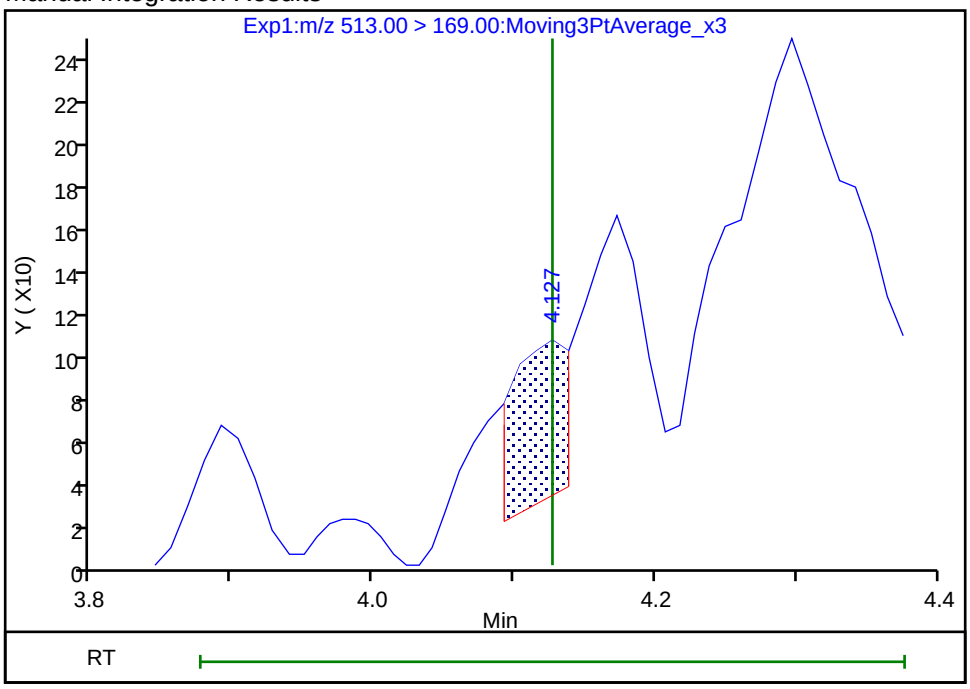
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.13
Area: 183
Amount: 0.002291
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:40:26
Audit Action: Manually Integrated Audit Reason: Missed Peak

Eurofins Burlington

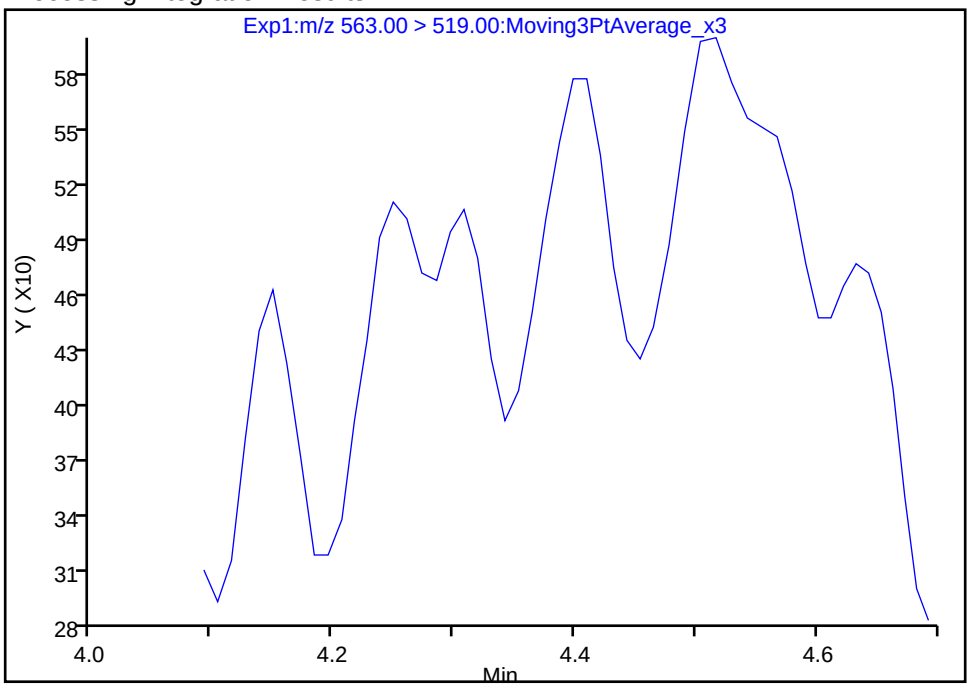
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

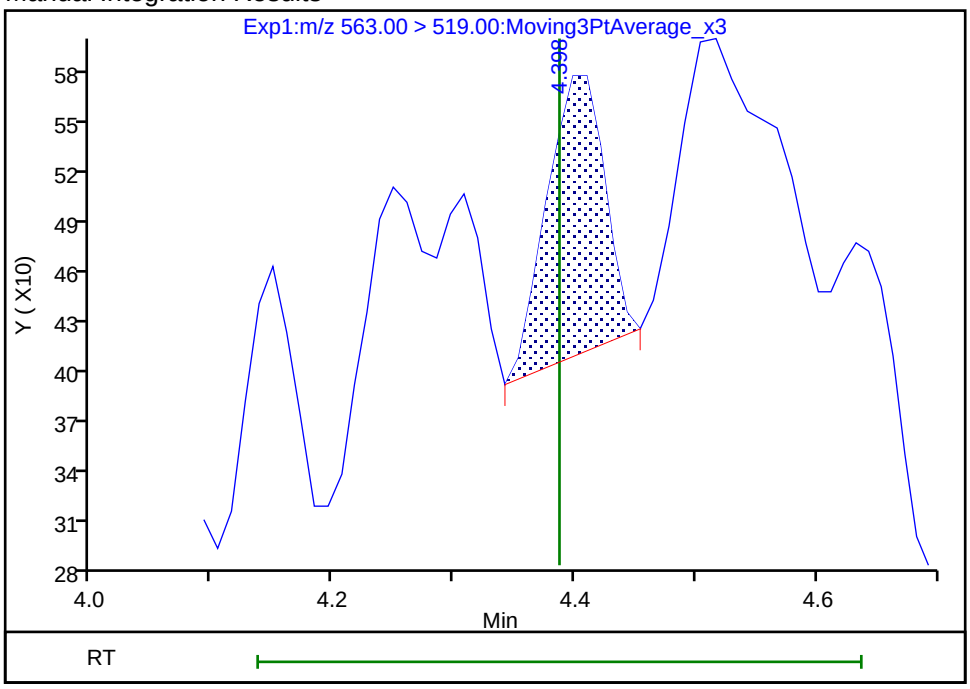
Not Detected
Expected RT: 4.39

Processing Integration Results



Manual Integration Results

RT: 4.40
Area: 549
Amount: 0.000600
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:29:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

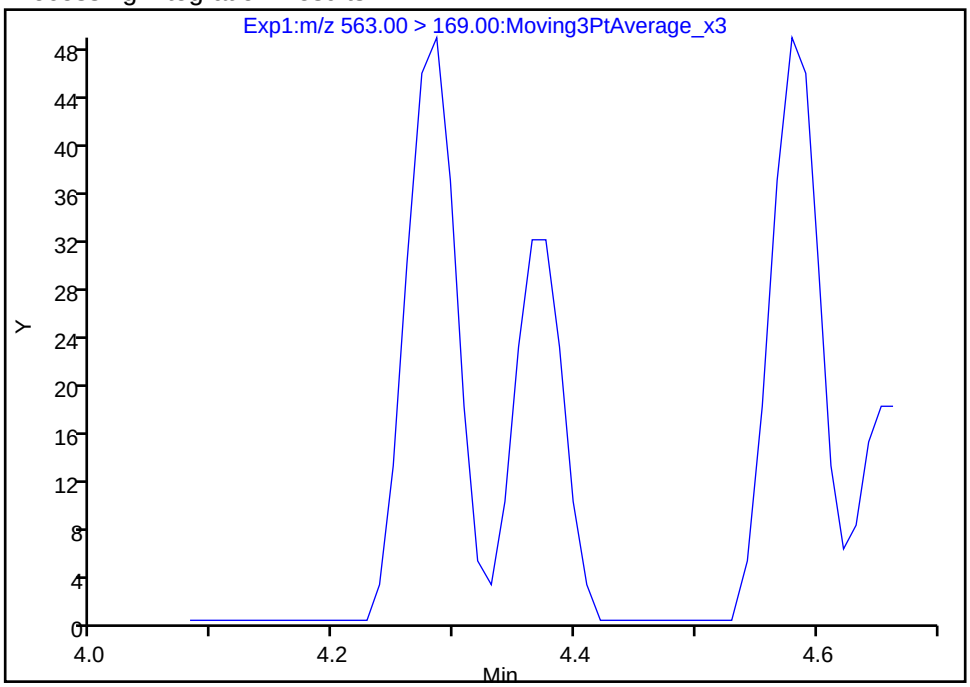
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d
Injection Date: 13-Jun-2022 18:55:17 Instrument ID: LC812
Lims ID: 480-198722-C-1-A Lab Sample ID: 200-198722-1
Client ID: CD-1
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

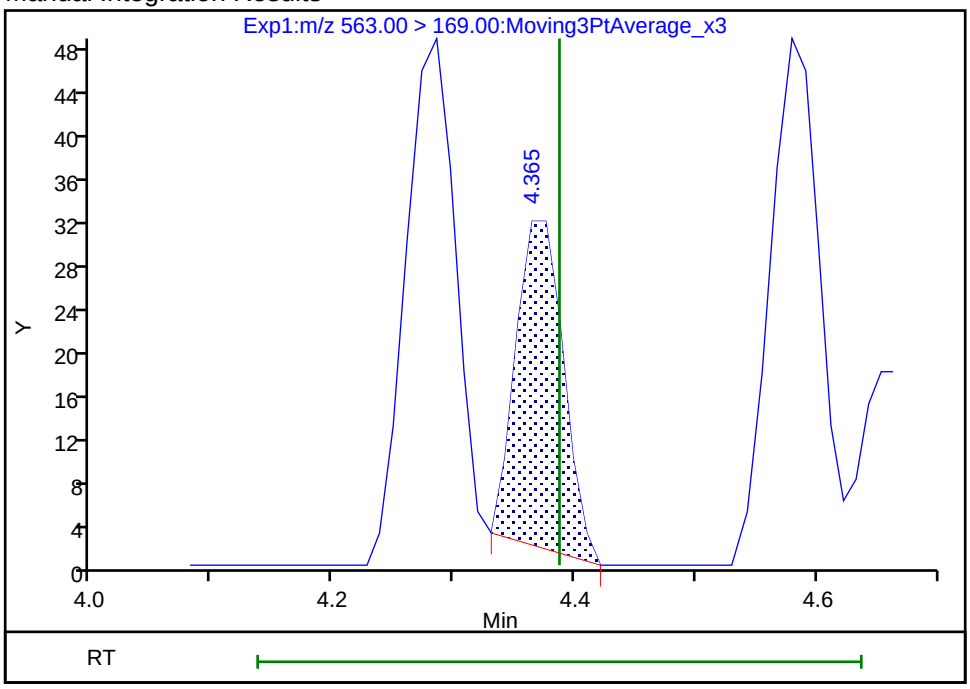
Not Detected
Expected RT: 4.39

Processing Integration Results



Manual Integration Results

RT: 4.36
Area: 83
Amount: 0.000600
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:29:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

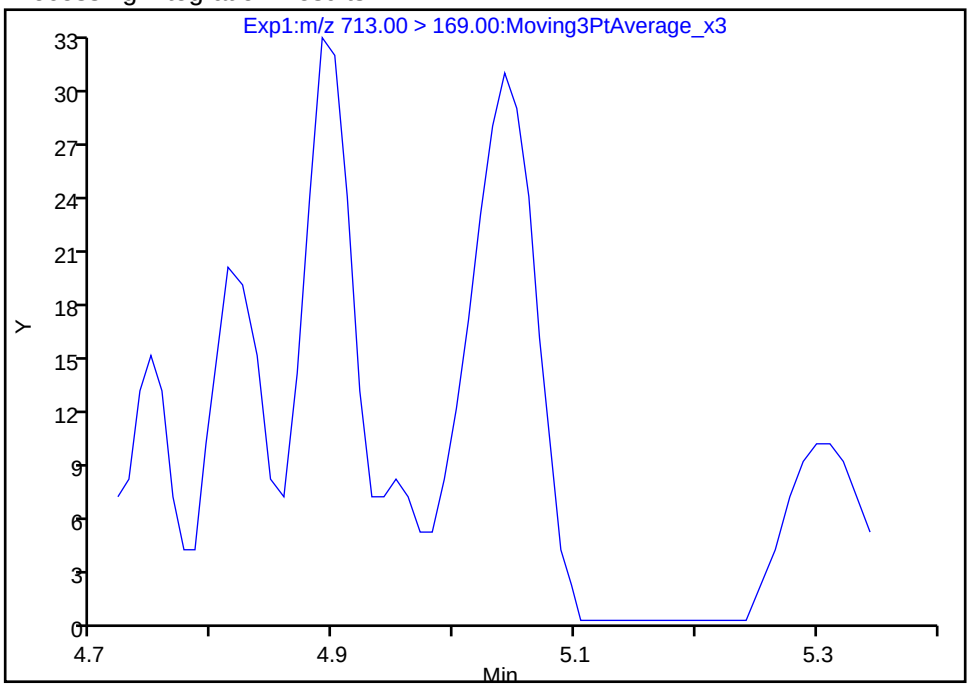
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

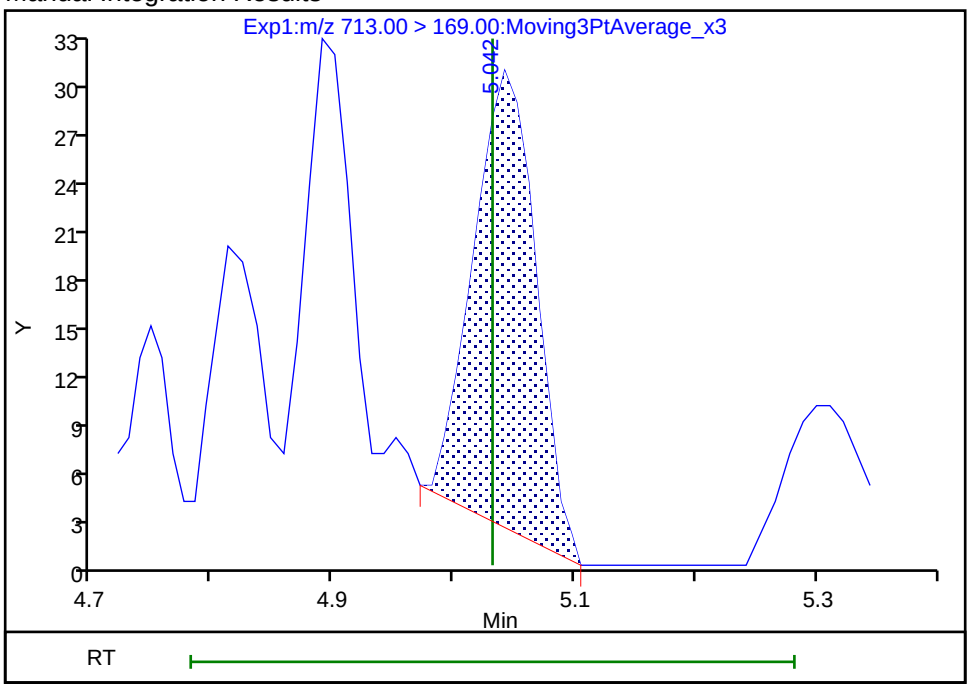
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.04
Area: 103
Amount: 0.000971
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:29:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

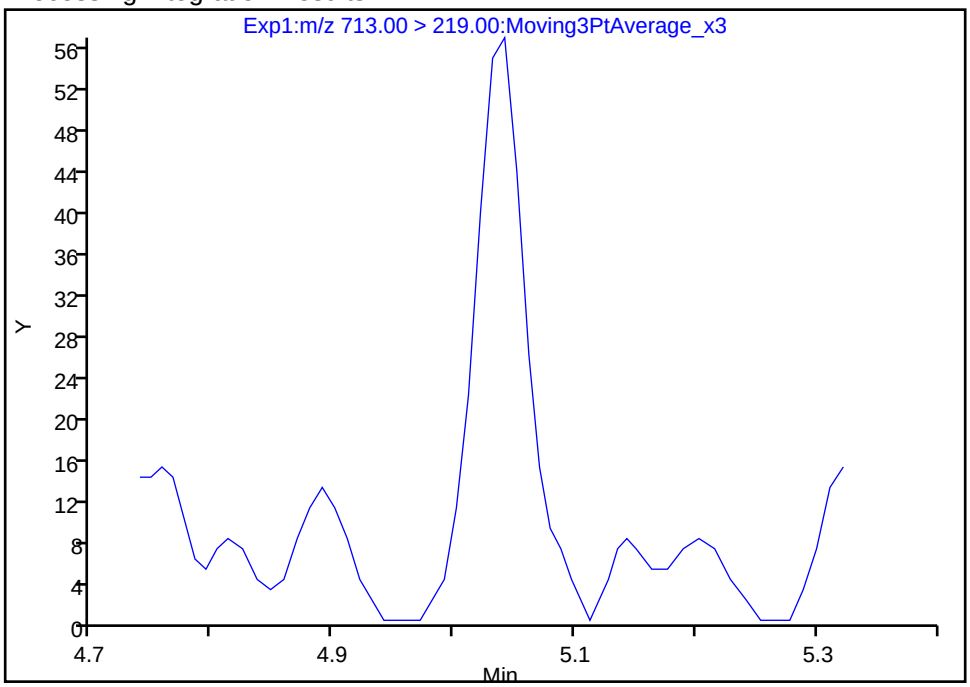
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

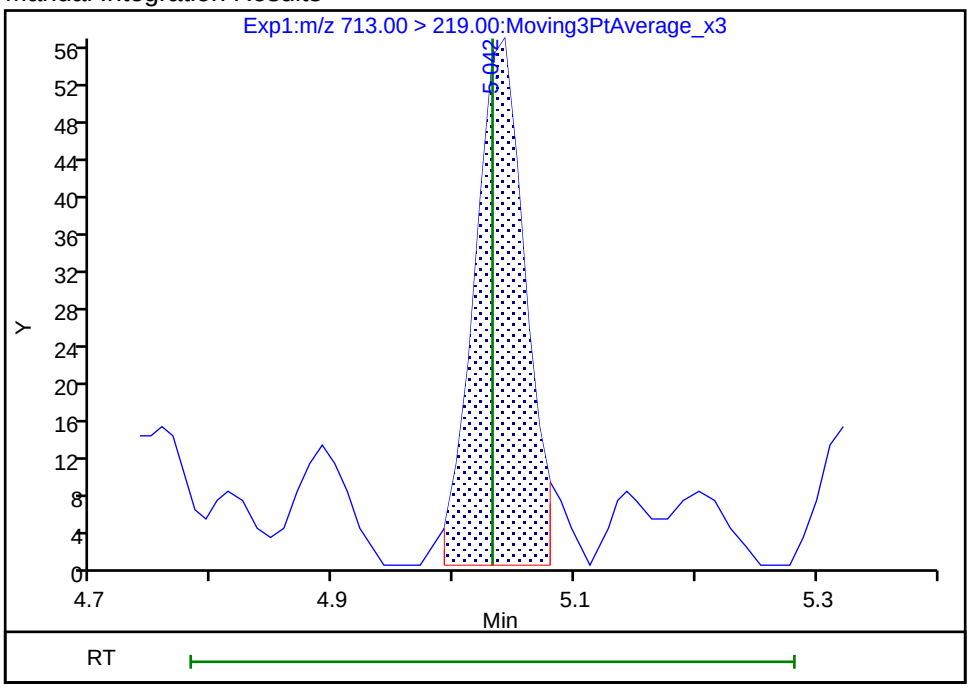
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.04
Area: 163
Amount: 0.000971
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:29:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

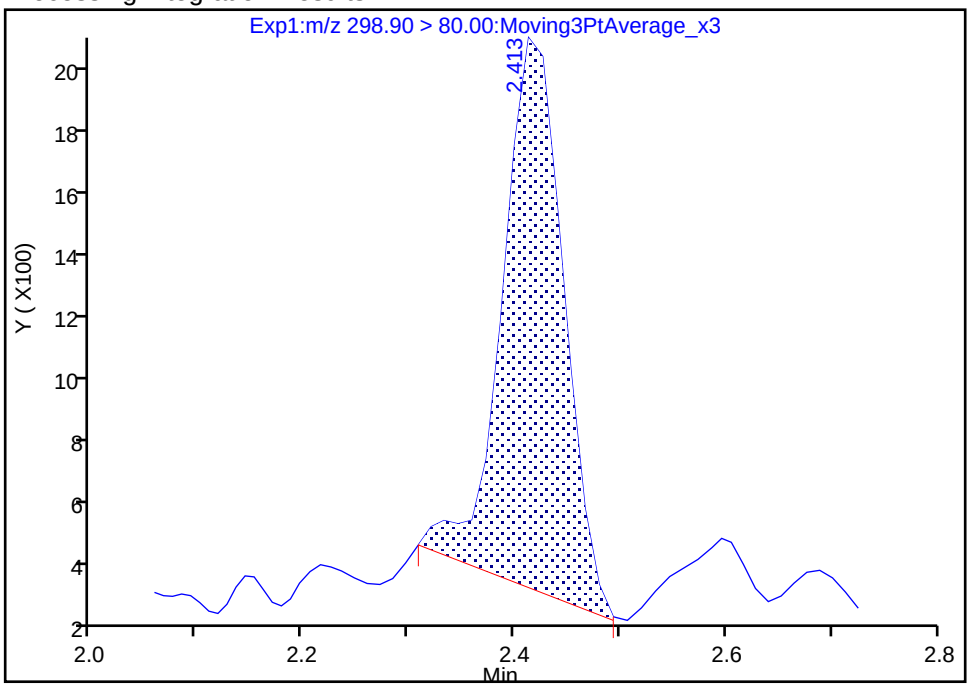
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

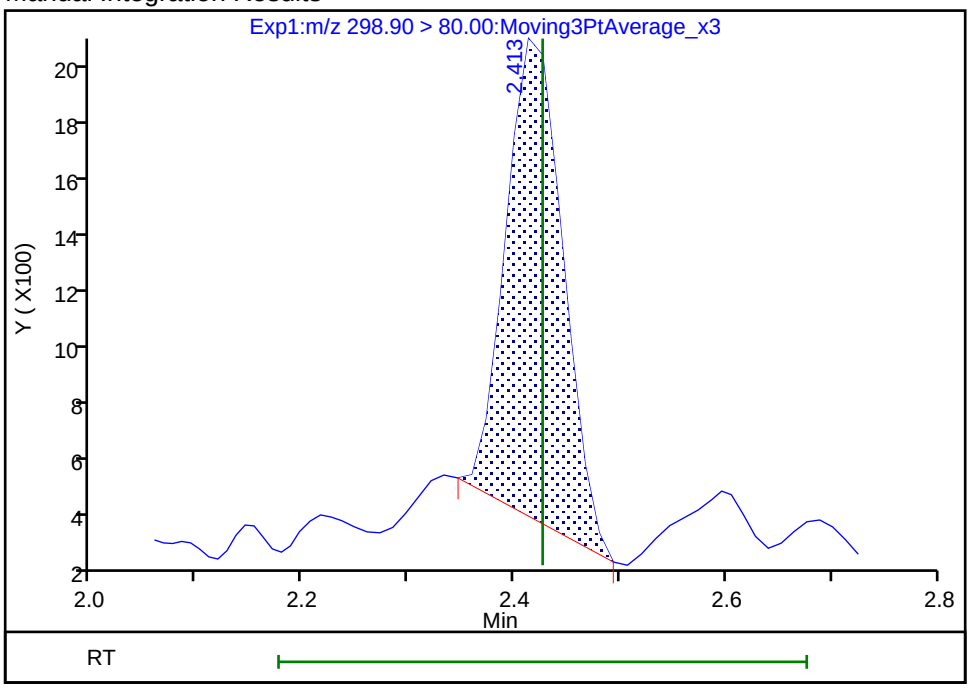
Processing Integration Results

RT: 2.41
Area: 6789
Amount: 0.004236
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 6078
Amount: 0.003792
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:26:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

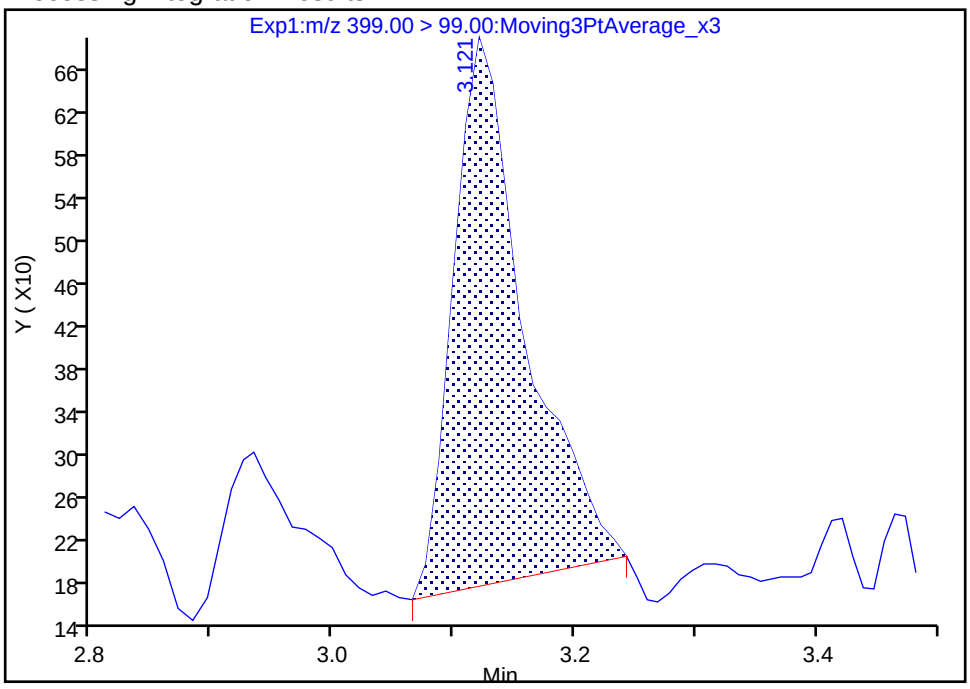
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

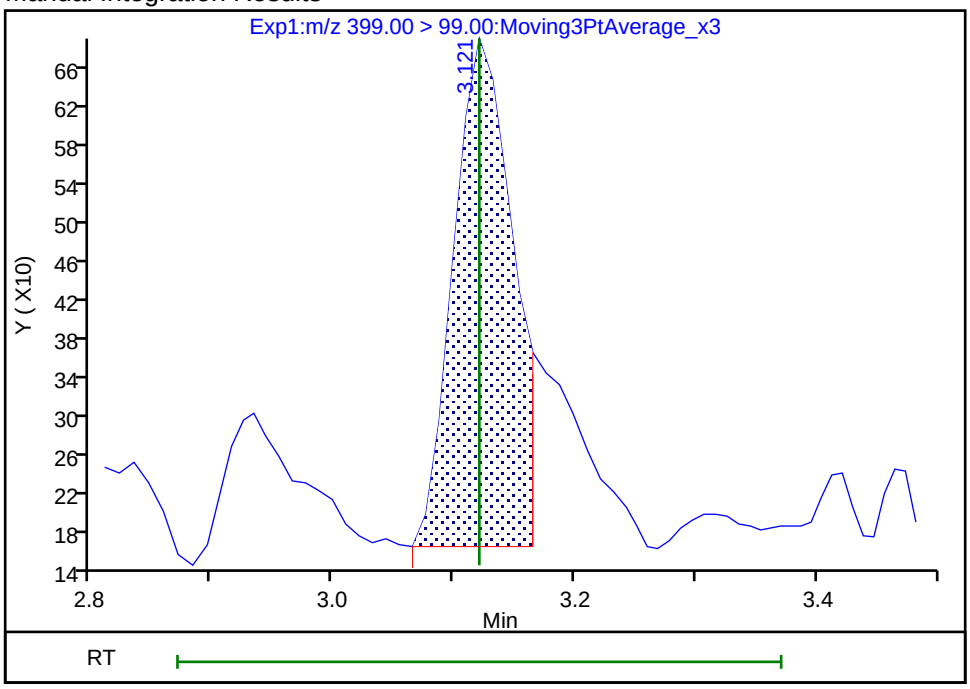
Processing Integration Results

RT: 3.12
Area: 2071
Amount: 0.005144
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 1735
Amount: 0.005144
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:26:54

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

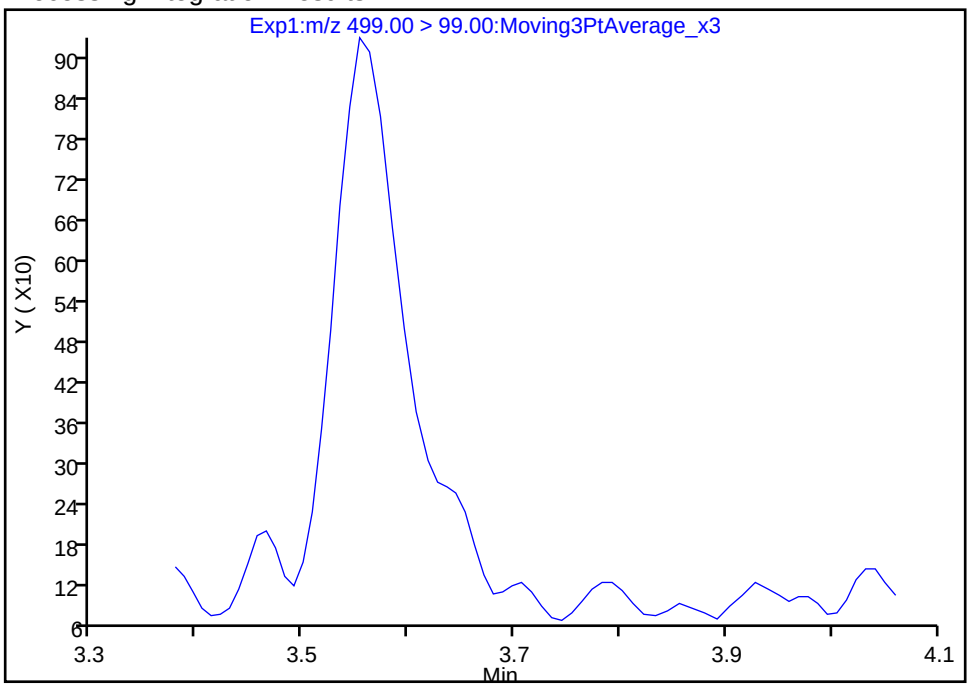
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

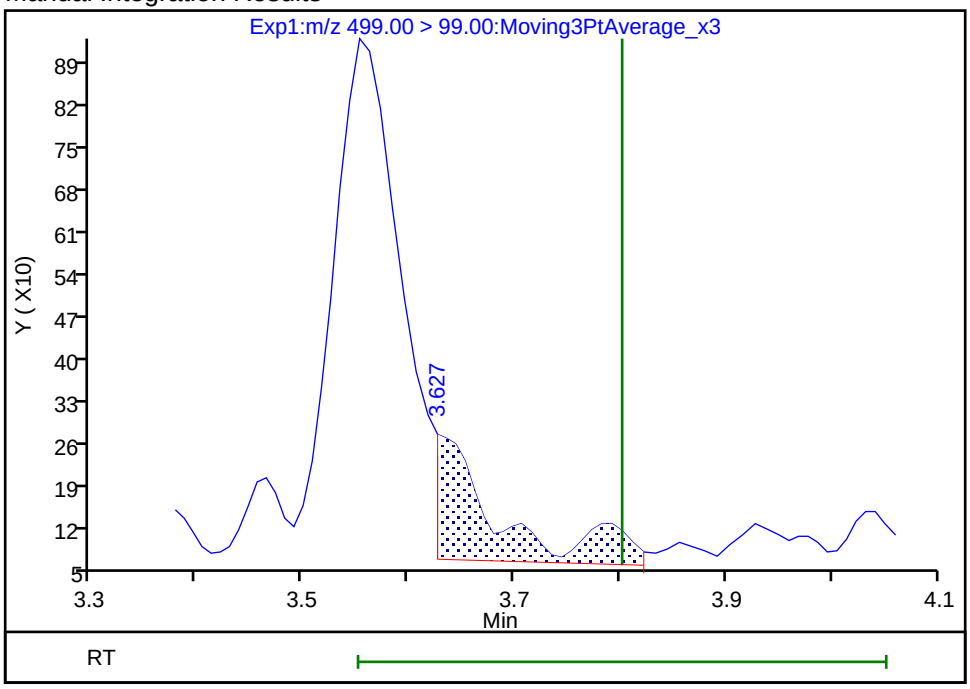
Not Detected
Expected RT: 3.80

Processing Integration Results



Manual Integration Results

RT: 3.63
Area: 824
Amount: 0.002175
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:28:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

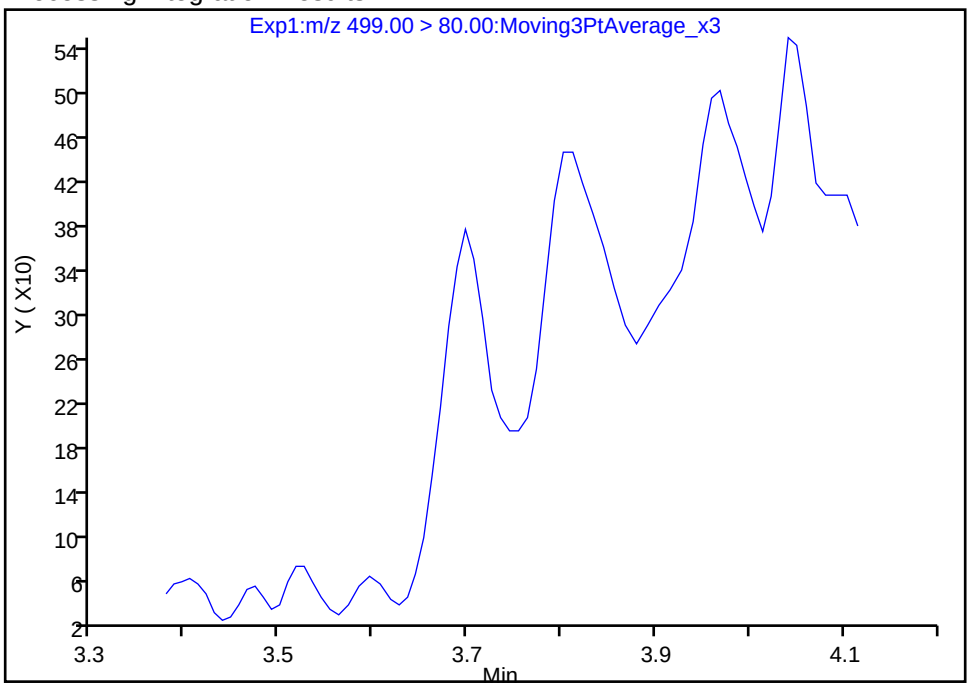
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

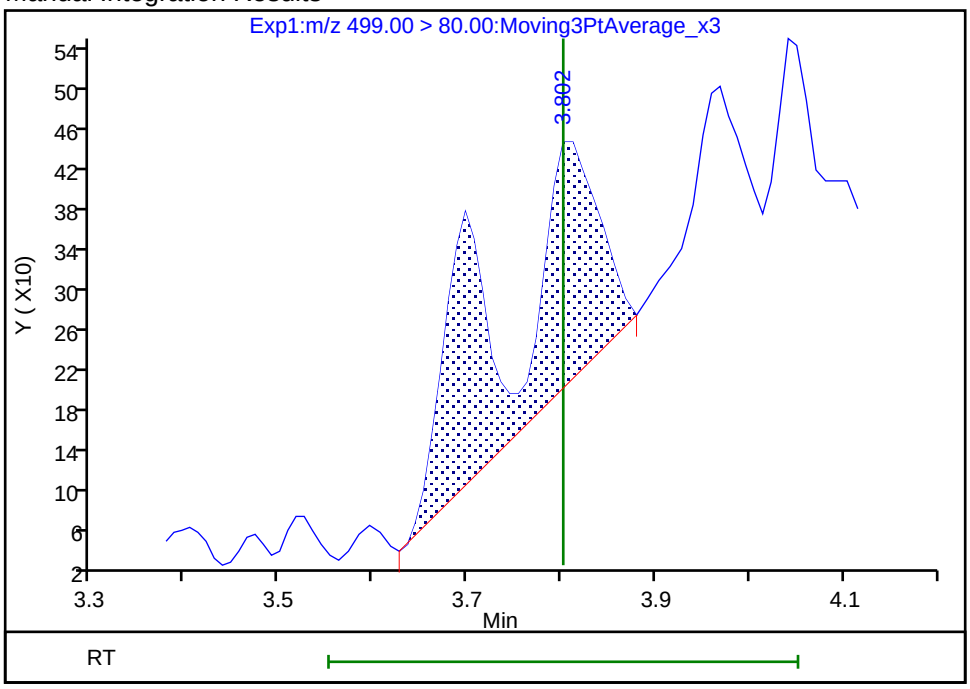
Not Detected
Expected RT: 3.80

Processing Integration Results



Manual Integration Results

RT: 3.80
Area: 1865
Amount: 0.002175
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:28:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

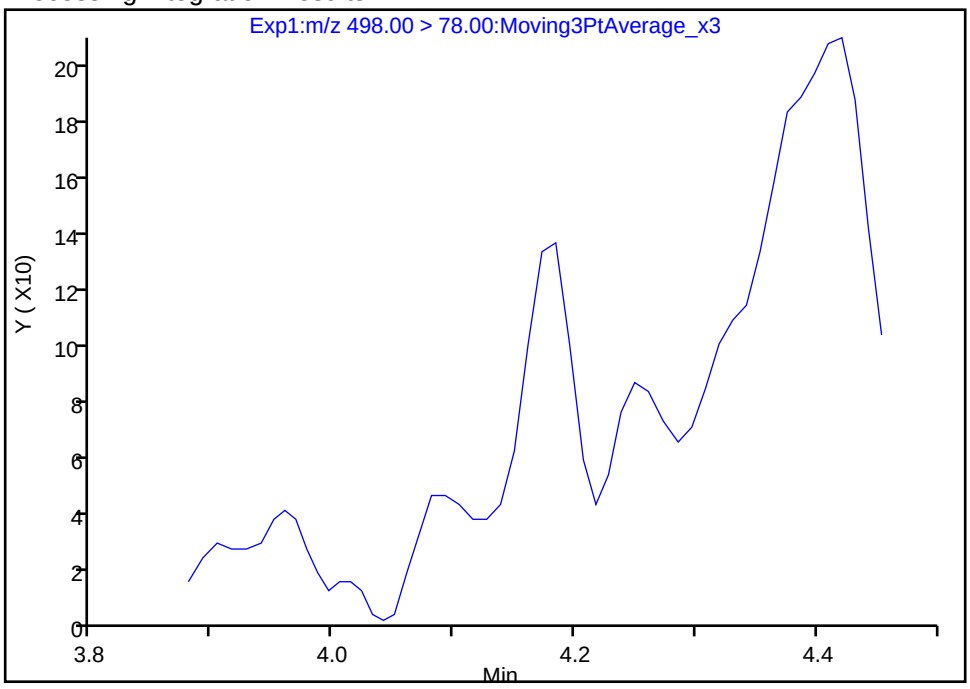
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

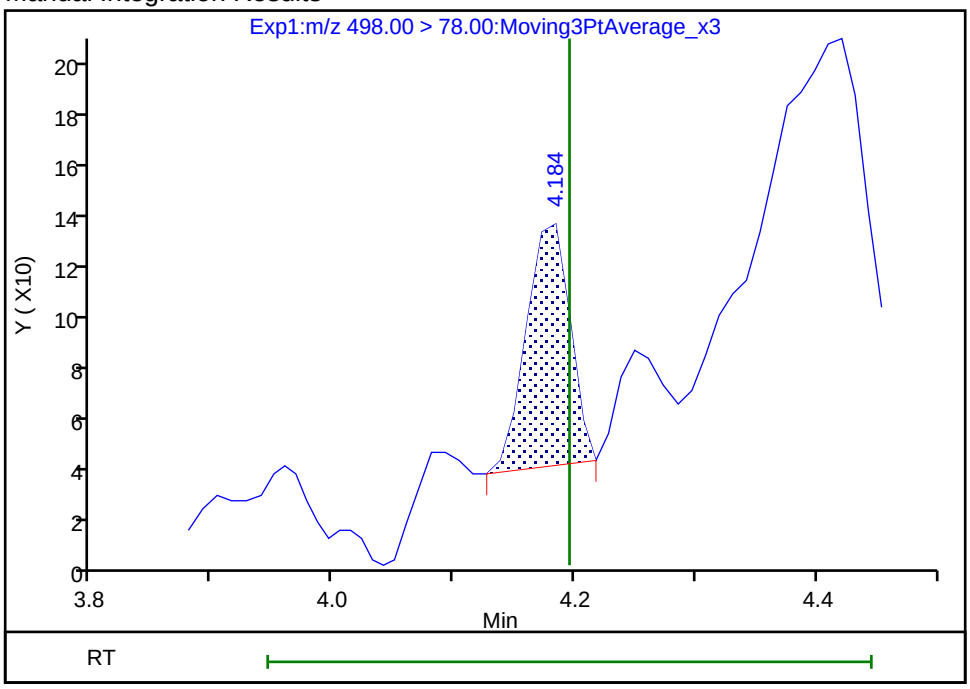
Not Detected
Expected RT: 4.20

Processing Integration Results



Manual Integration Results

RT: 4.18
Area: 226
Amount: 0.000181
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:28:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

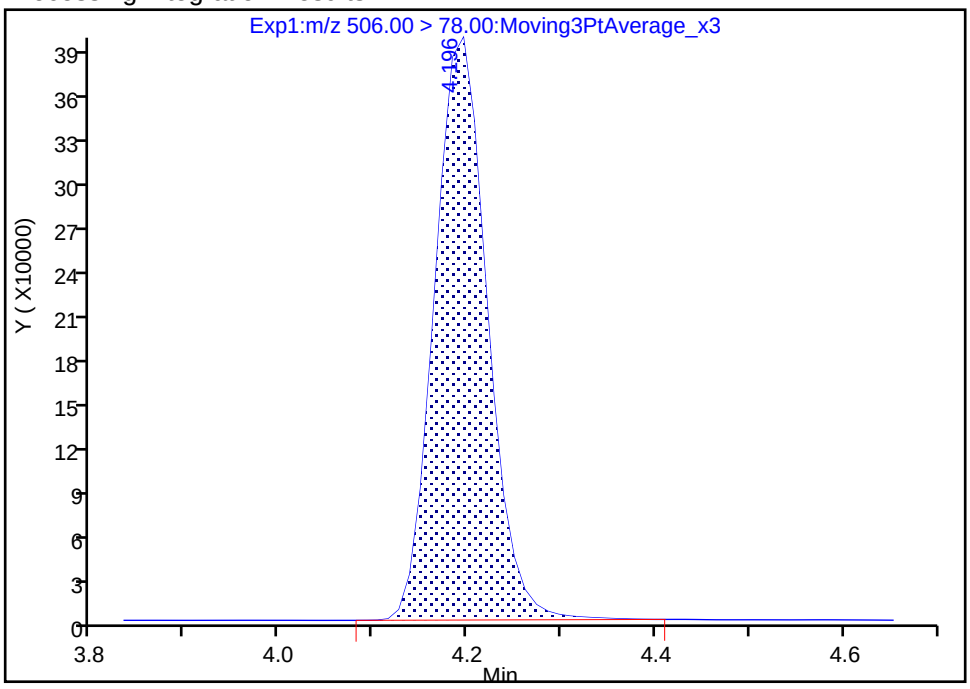
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

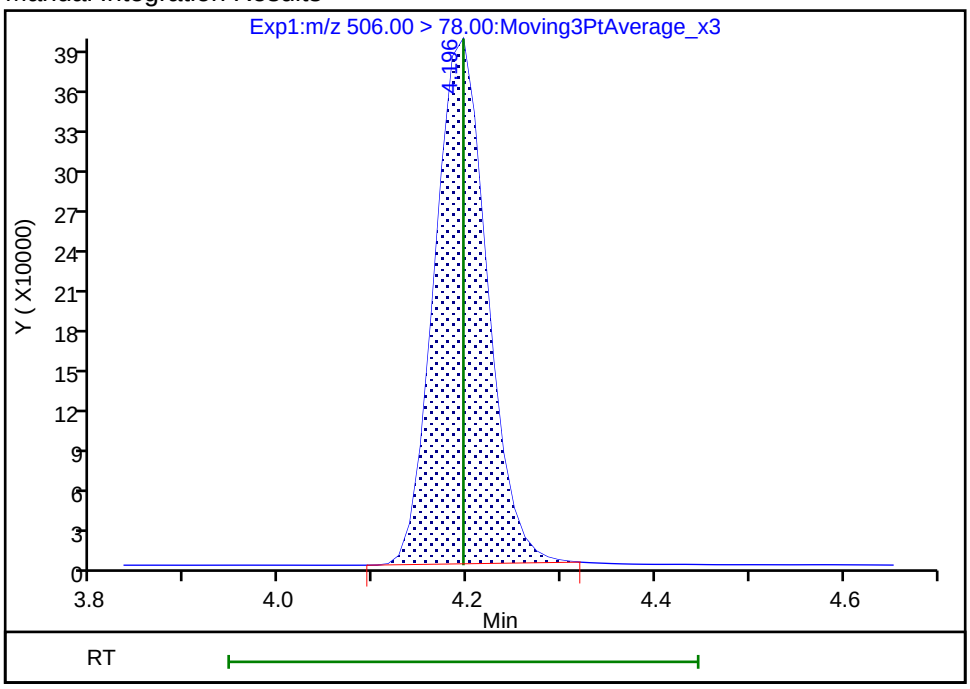
Processing Integration Results

RT: 4.20
Area: 1558184
Amount: 1.038938
Amount Units: ng/ml



Manual Integration Results

RT: 4.20
Area: 1541910
Amount: 1.028087
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:40:45

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

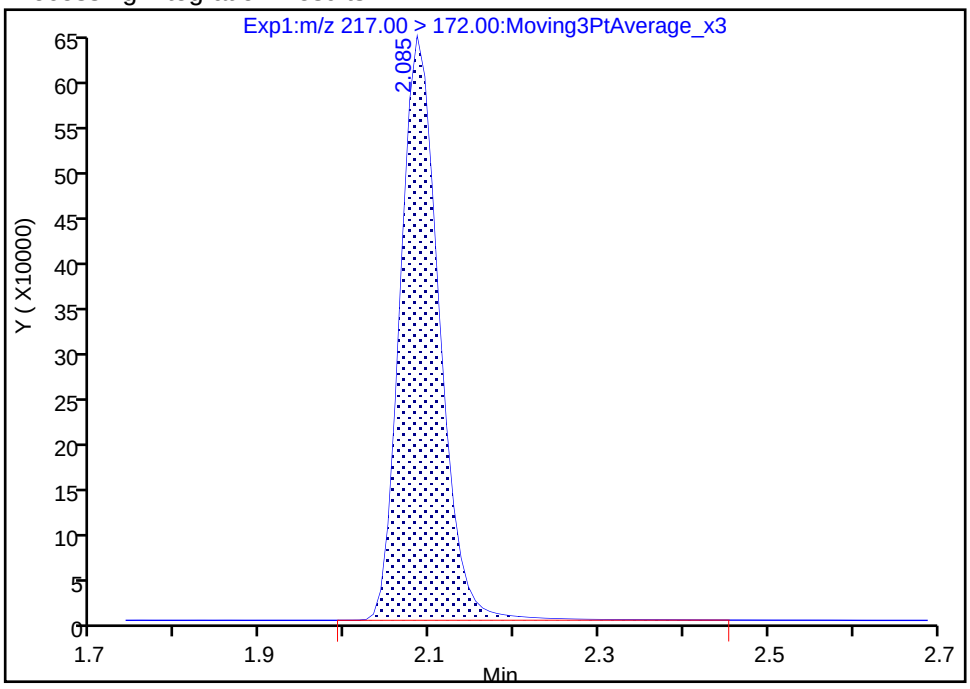
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

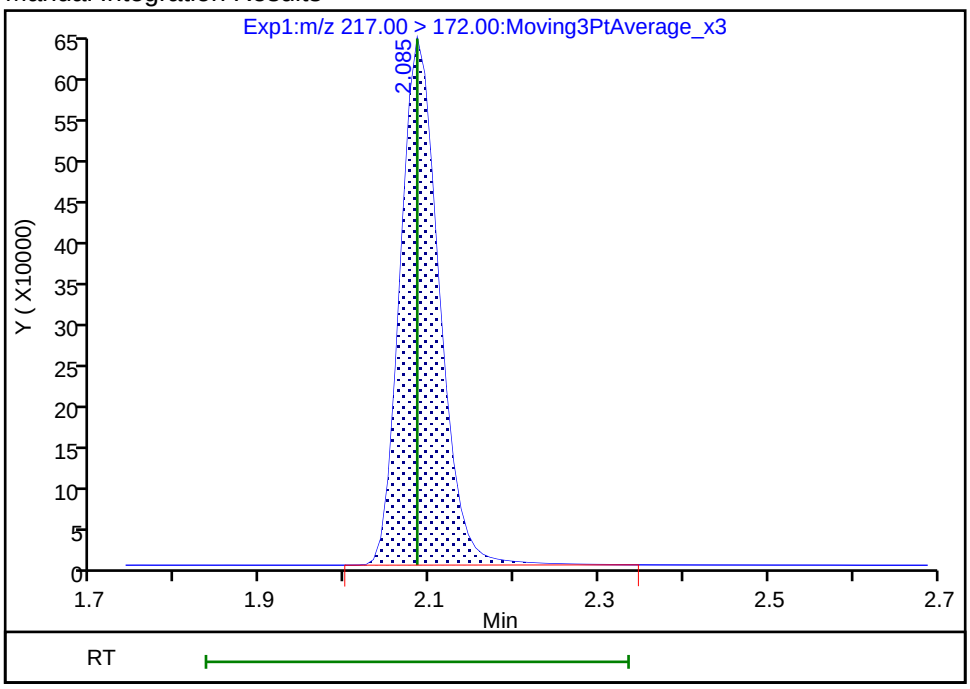
Processing Integration Results

RT: 2.08
Area: 2038257
Amount: 1.387405
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 2034715
Amount: 1.384994
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:39:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

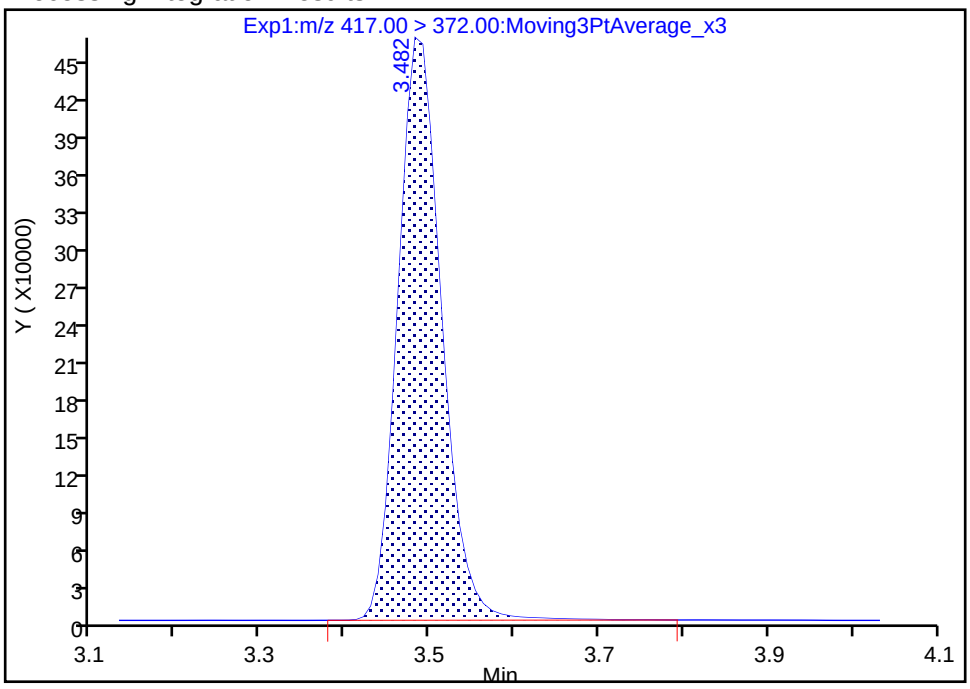
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

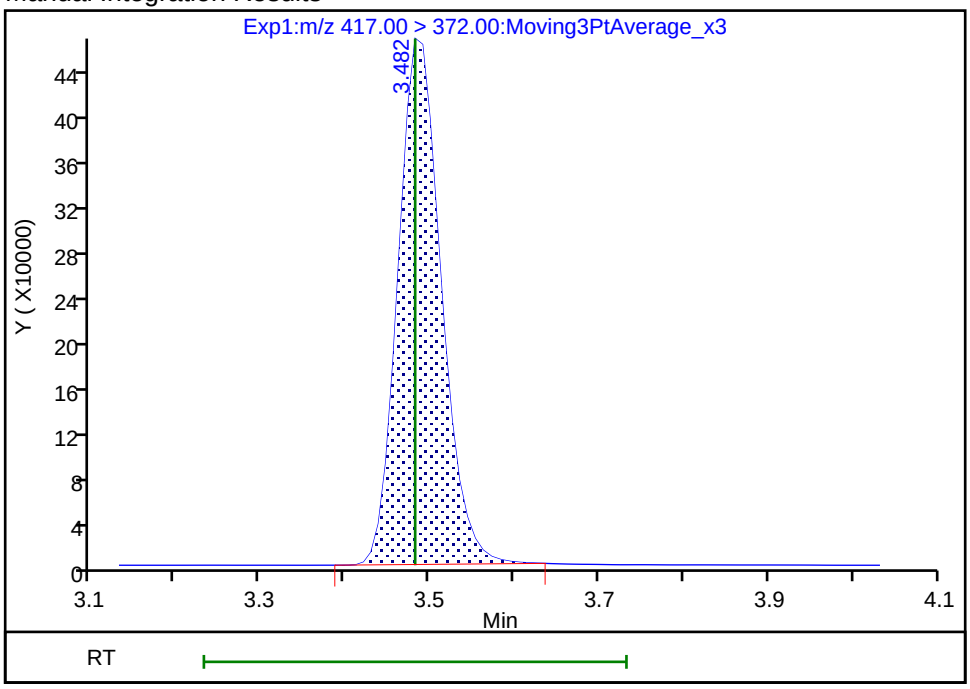
Processing Integration Results

RT: 3.48
Area: 1675521
Amount: 1.286023
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 1660386
Amount: 1.274406
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:39:36

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

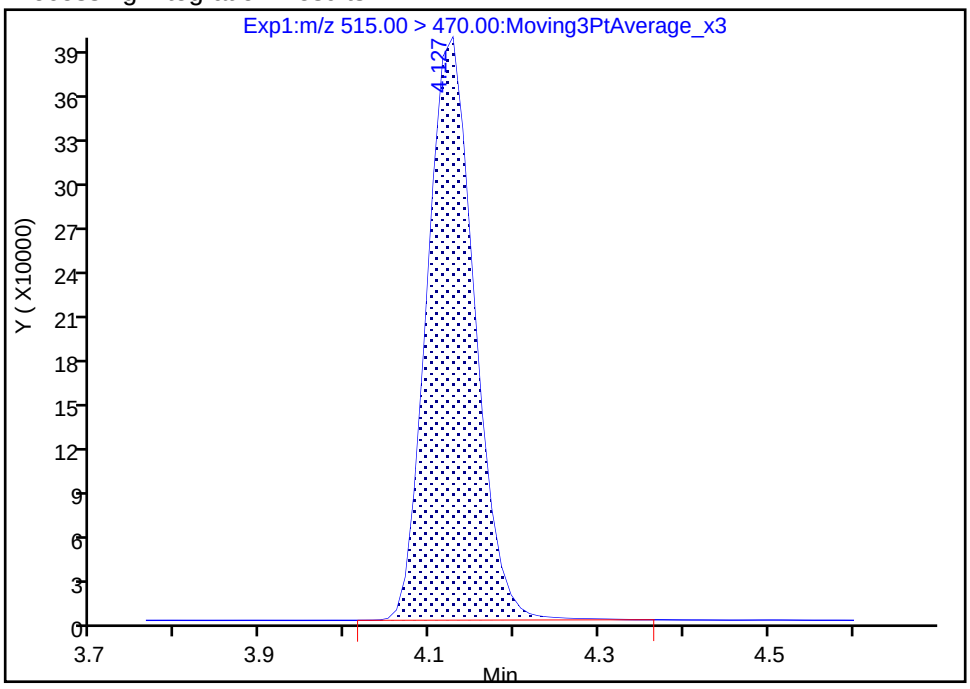
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

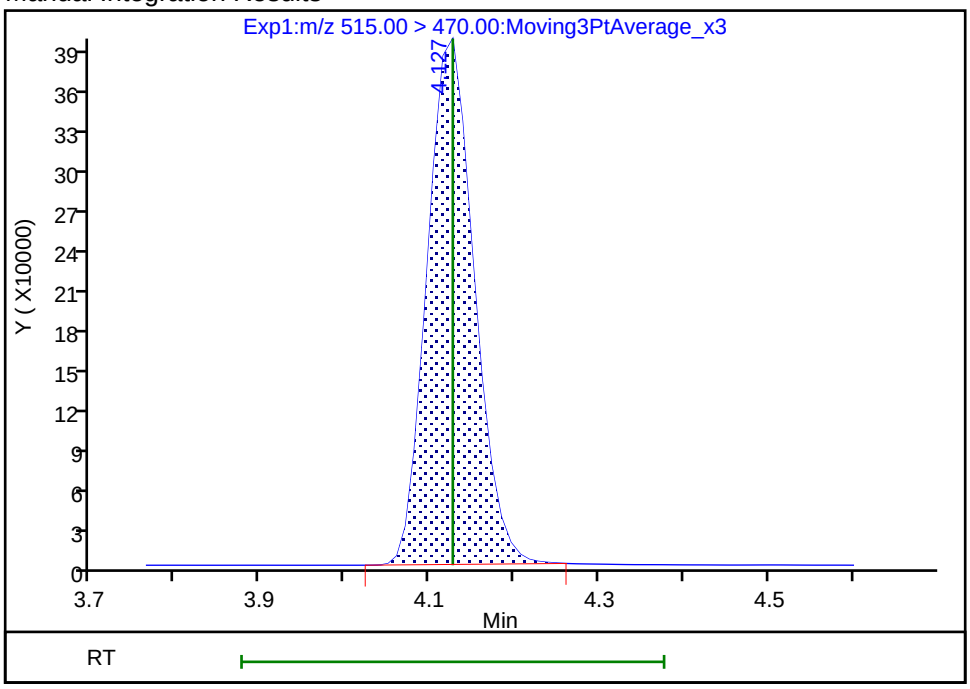
Processing Integration Results

RT: 4.13
Area: 1523805
Amount: 1.117809
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 1514051
Amount: 1.110654
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:39:55

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

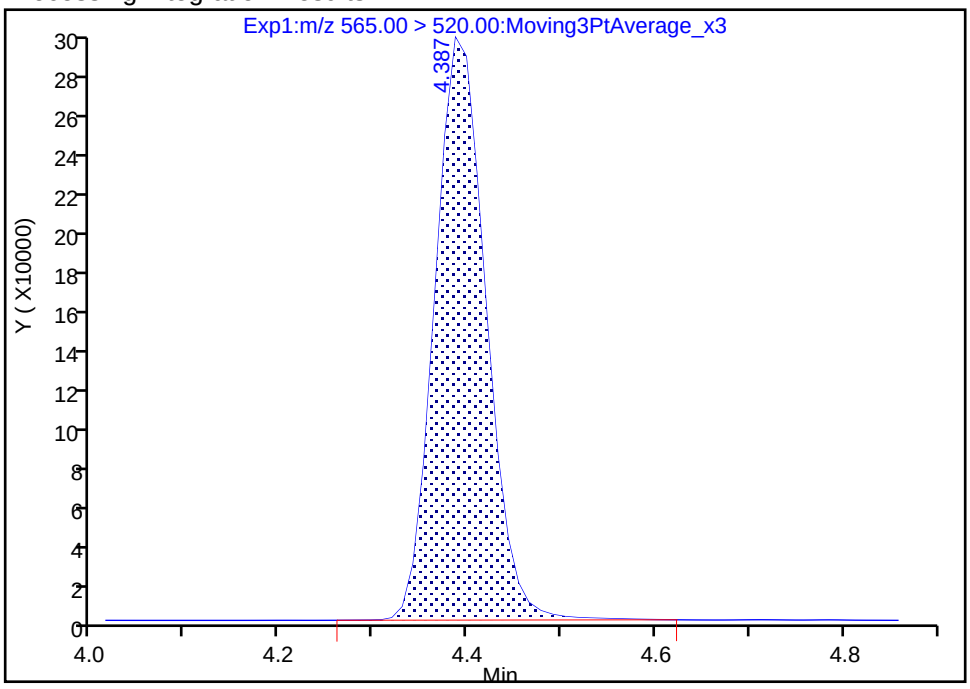
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

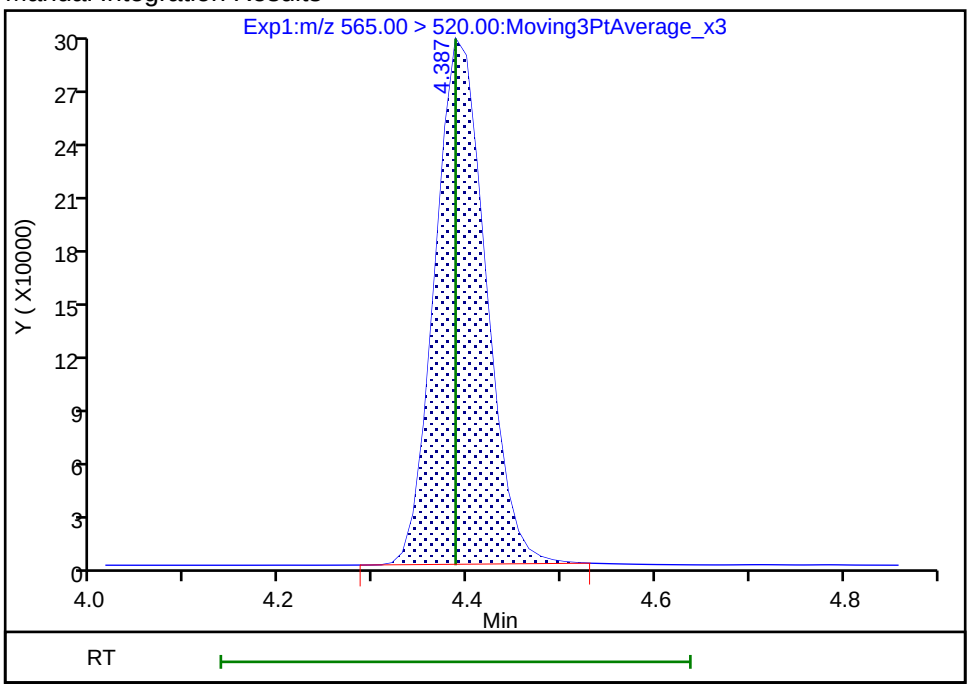
Processing Integration Results

RT: 4.39
Area: 1119318
Amount: 1.022668
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 1110188
Amount: 1.014326
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:41:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

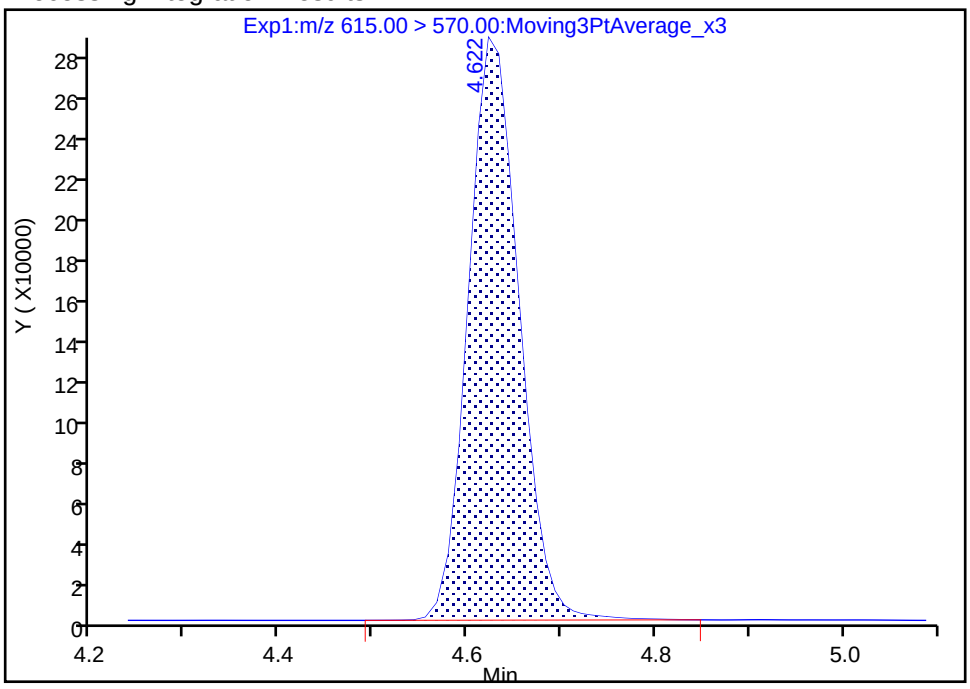
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 36 13C2 PFDoA, CAS: STL00998

Signal: 1

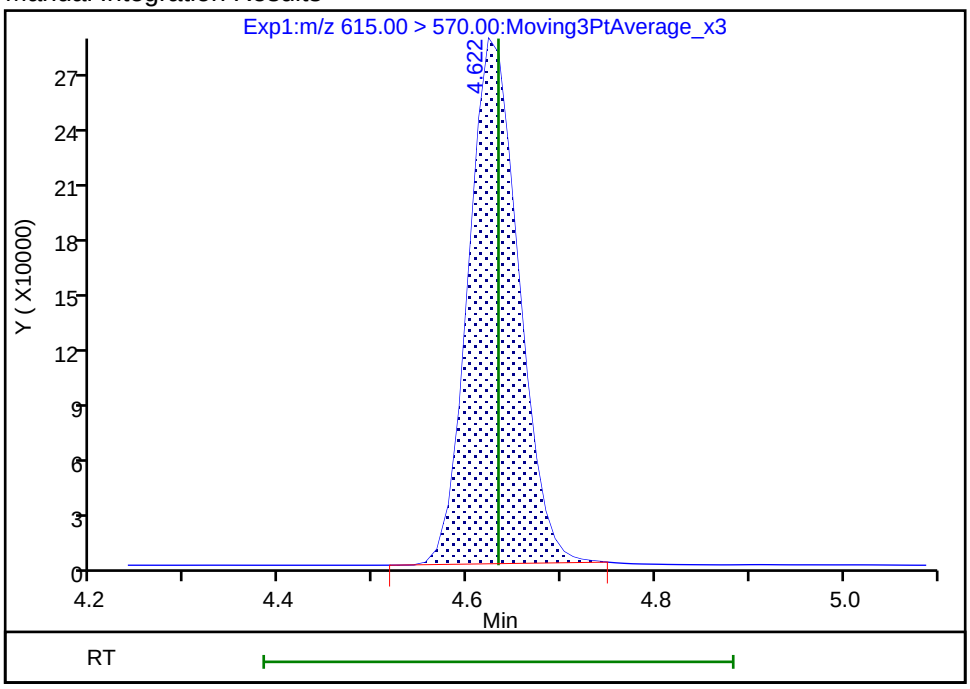
Processing Integration Results

RT: 4.62
Area: 1057711
Amount: 0.904886
Amount Units: ng/ml



Manual Integration Results

RT: 4.62
Area: 1044743
Amount: 0.893792
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:41:22

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

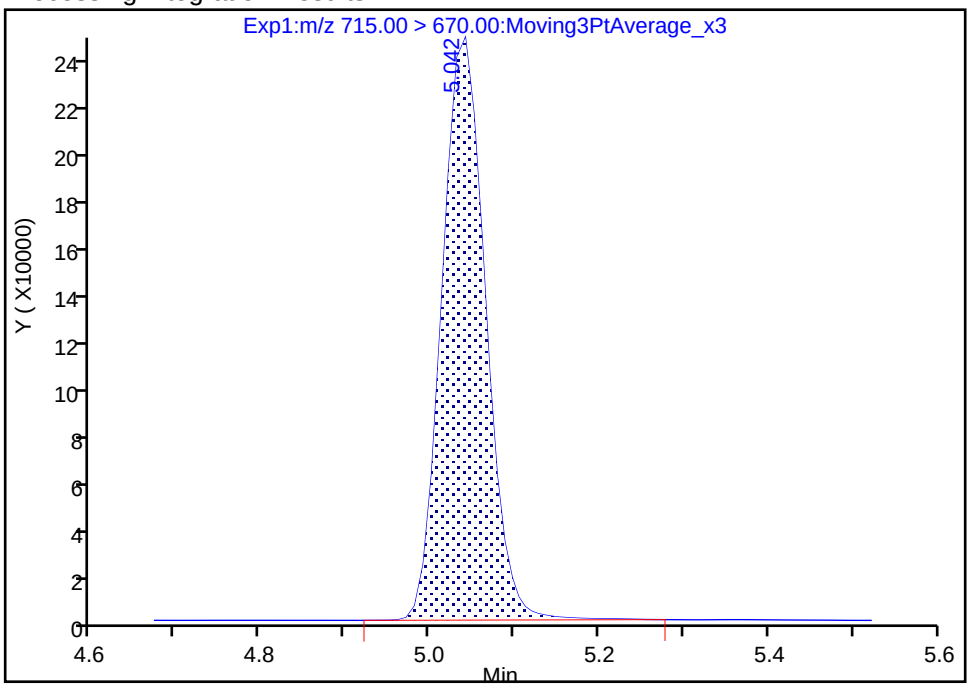
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

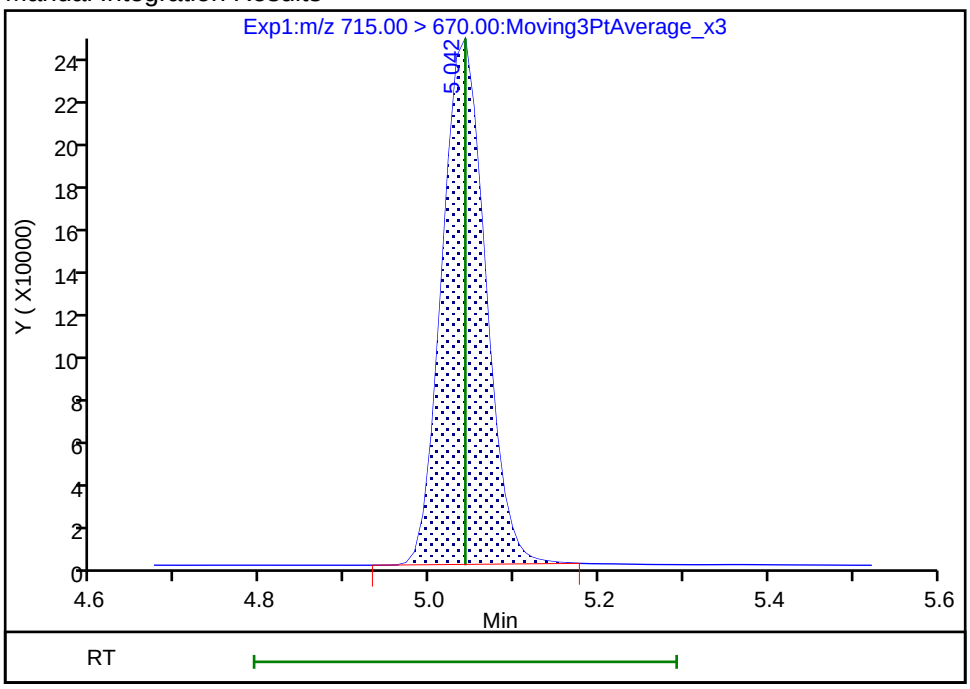
Processing Integration Results

RT: 5.04
Area: 864728
Amount: 0.905163
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 858346
Amount: 0.898482
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:41:29

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

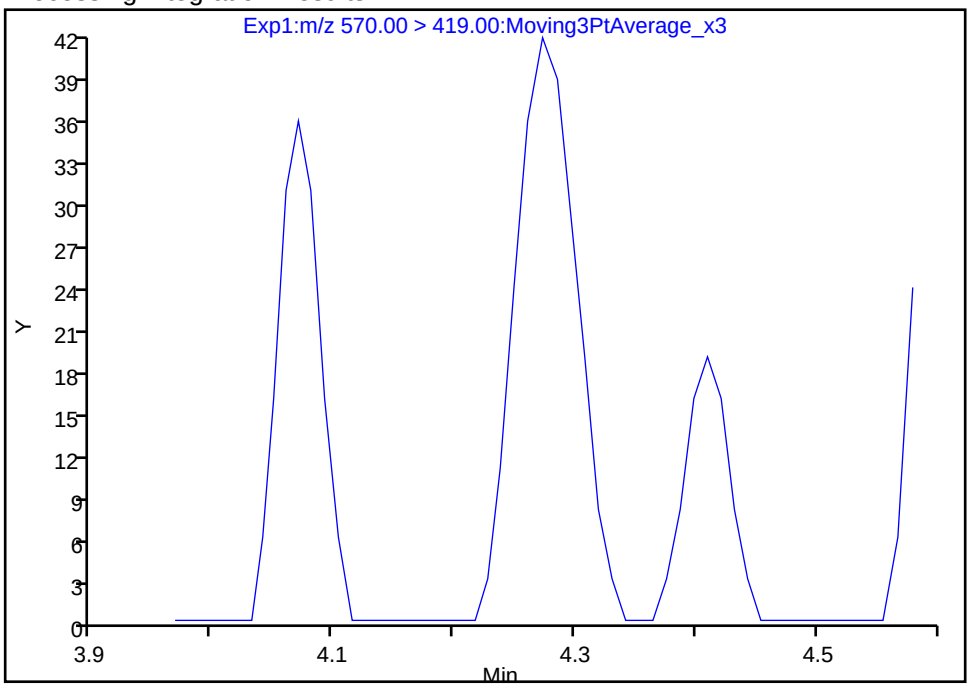
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

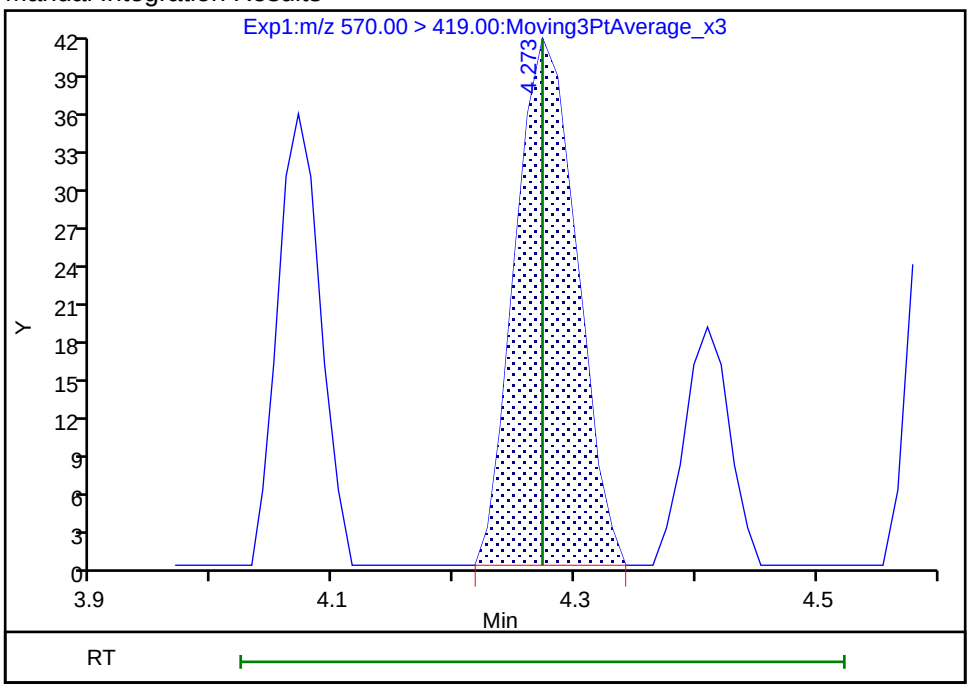
Not Detected
Expected RT: 4.27

Processing Integration Results



Manual Integration Results

RT: 4.27
Area: 149
Amount: 0.000869
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:29:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

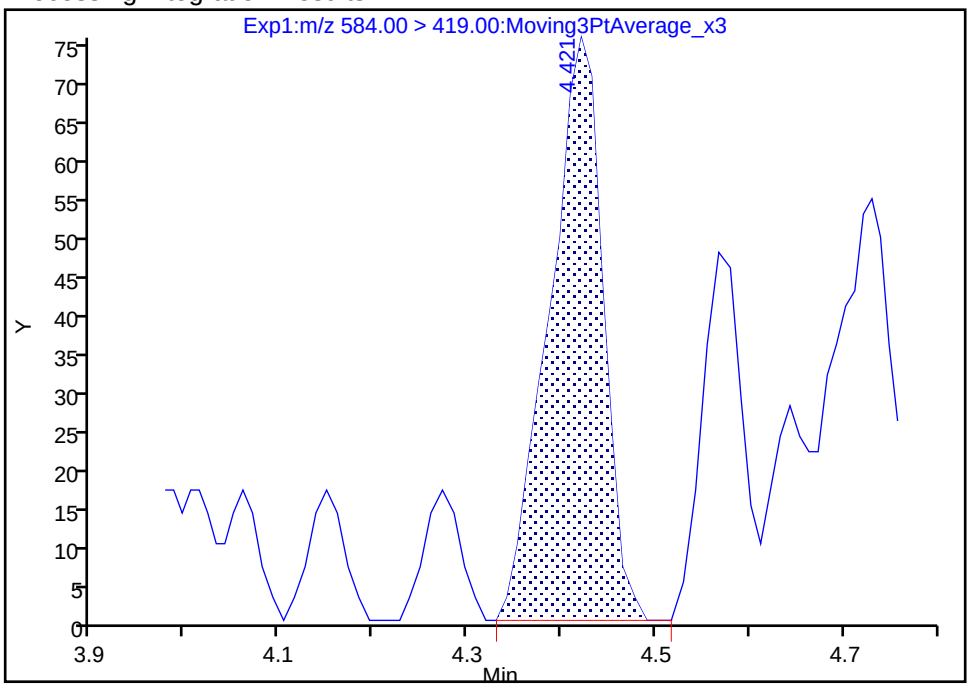
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

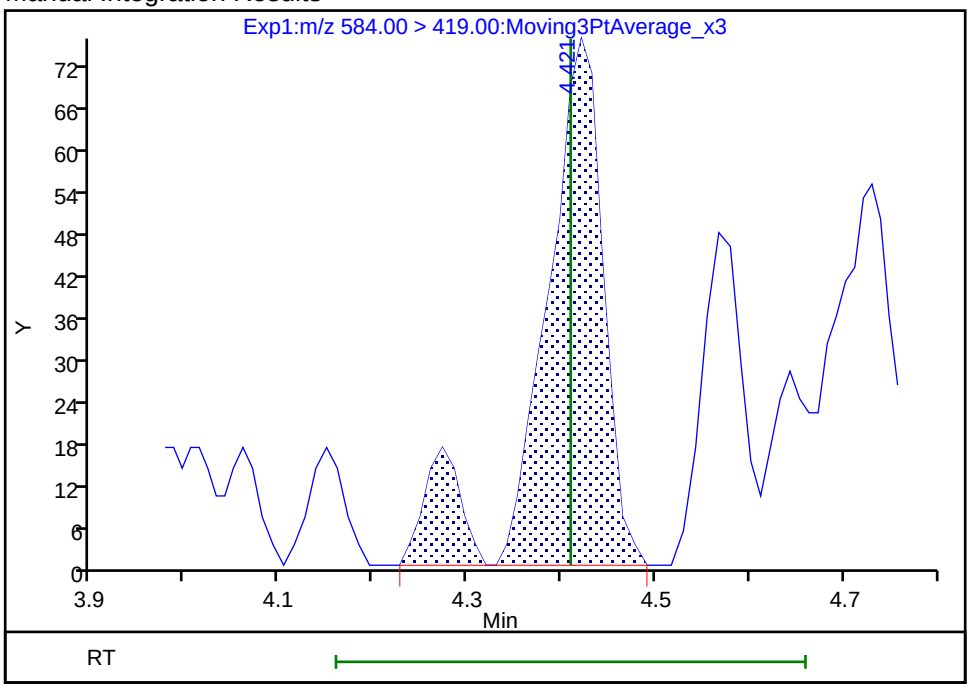
Processing Integration Results

RT: 4.42
Area: 302
Amount: 0.001831
Amount Units: ng/ml



Manual Integration Results

RT: 4.42
Area: 348
Amount: 0.002110
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:41:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

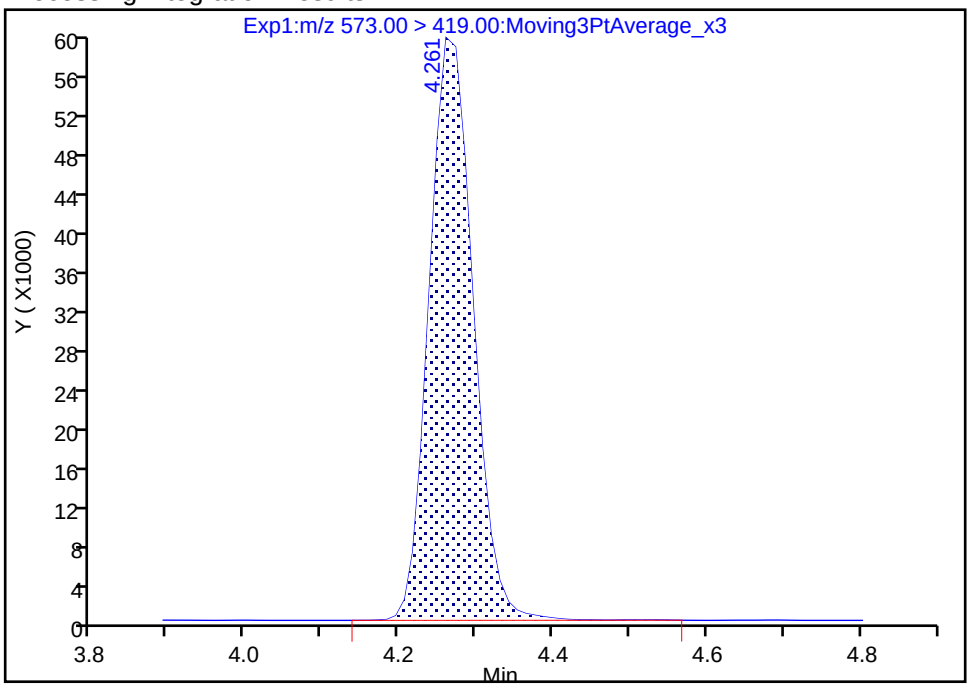
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

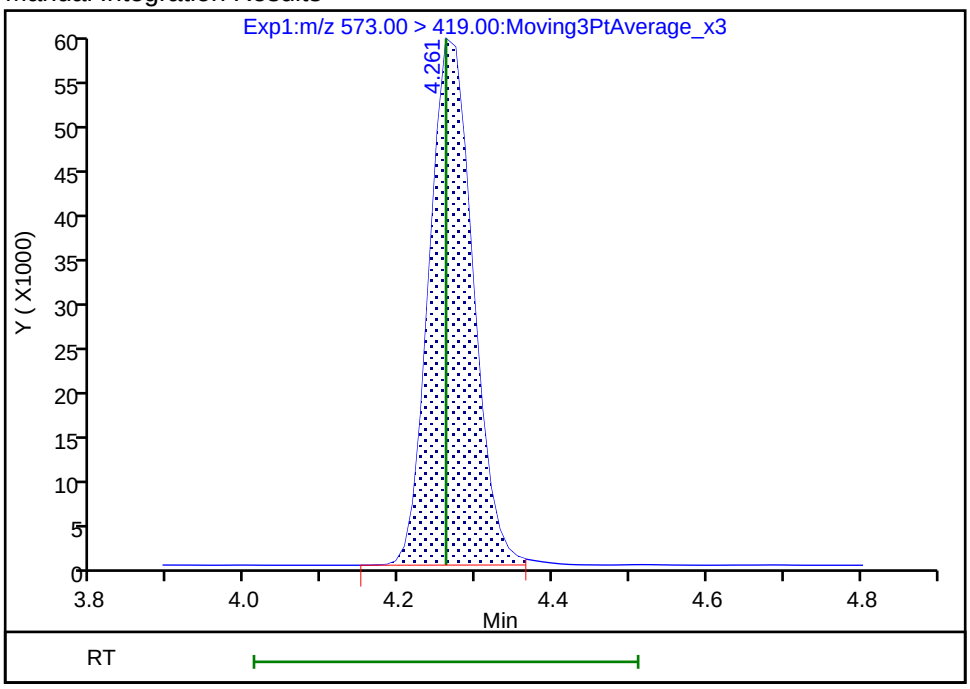
Processing Integration Results

RT: 4.26
Area: 237241
Amount: 1.311122
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 235656
Amount: 1.302363
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:40:59

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

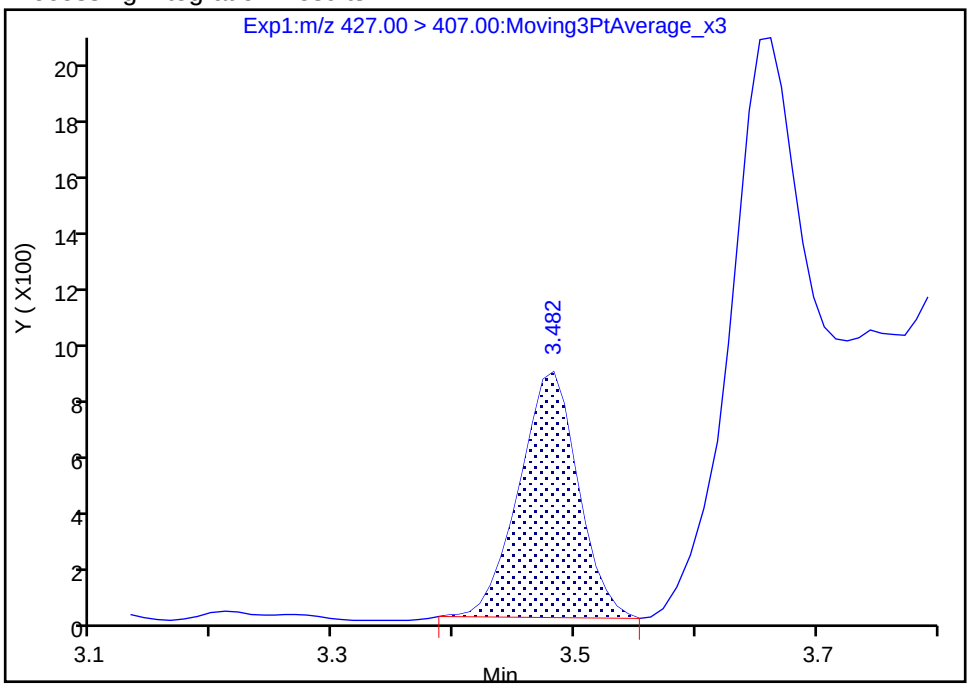
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

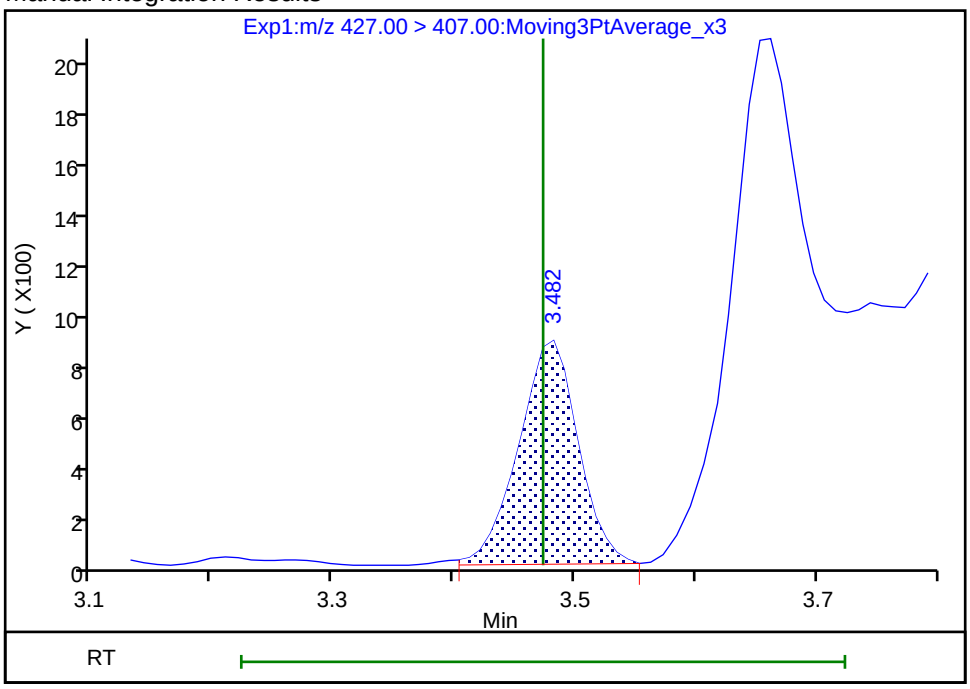
Processing Integration Results

RT: 3.48
Area: 2984
Amount: -0.017174
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 3034
Amount: -0.017002
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:27:25

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

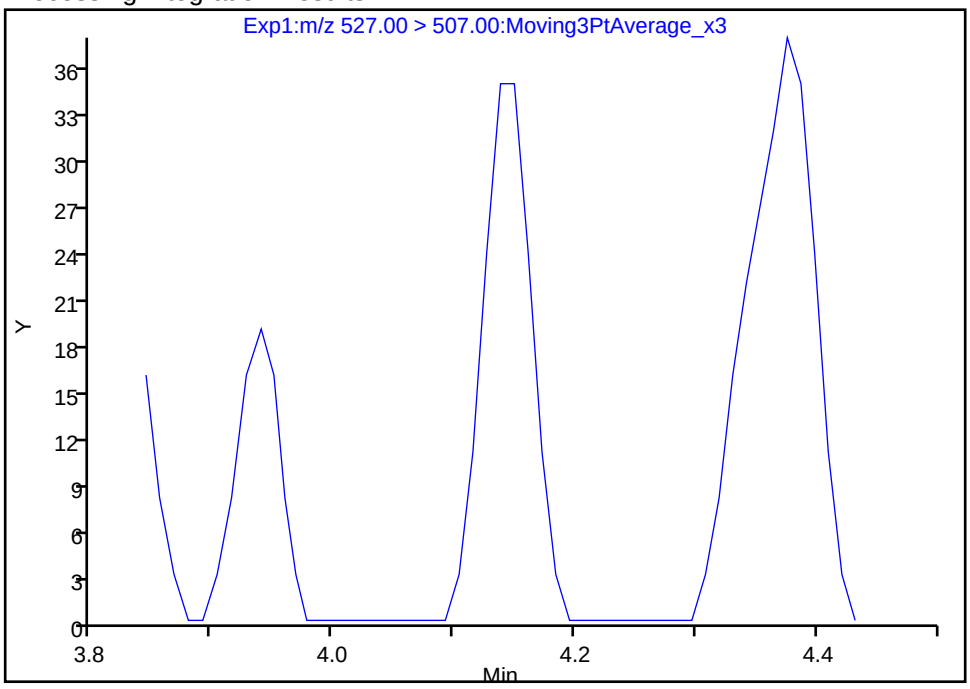
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

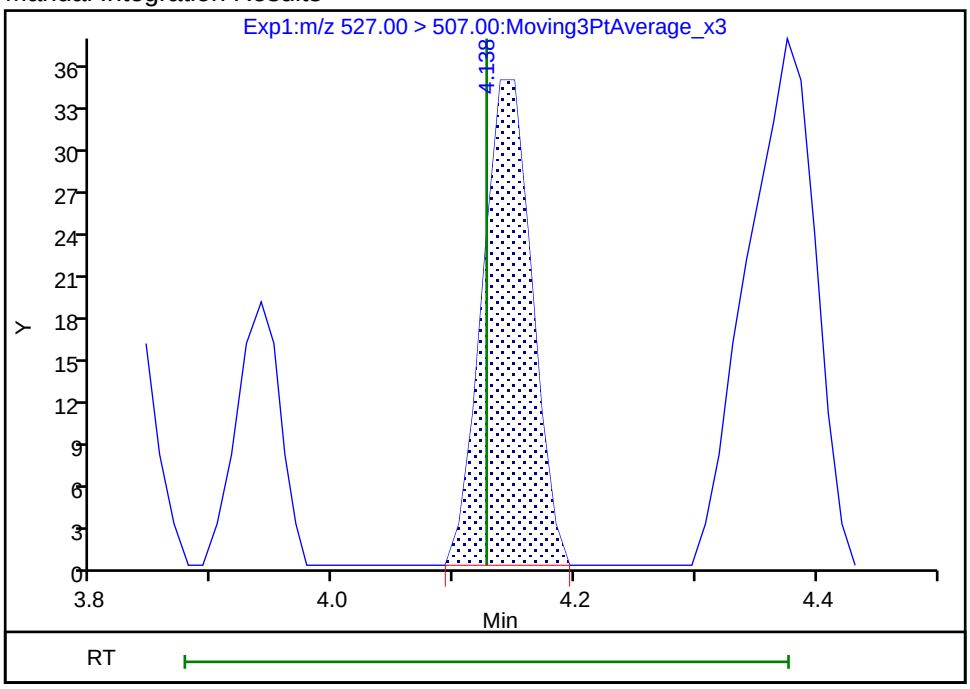
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.14
Area: 100
Amount: 0.000410
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:28:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

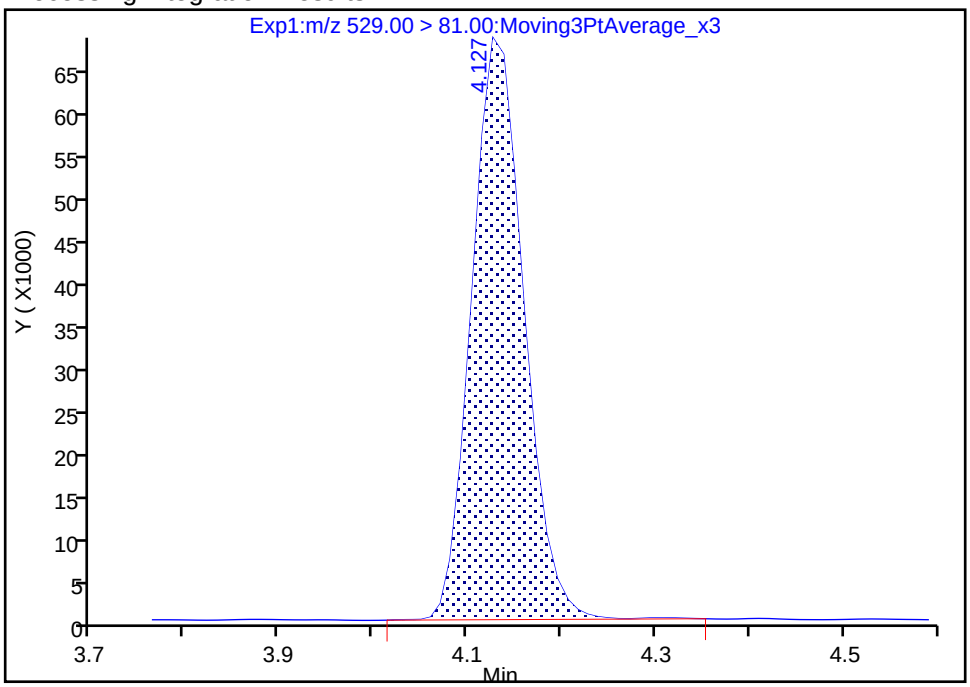
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A14.d				
Injection Date:	13-Jun-2022 18:55:17	Instrument ID:	LC812		
Lims ID:	480-198722-C-1-A	Lab Sample ID:	200-198722-1		
Client ID:	CD-1				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 26 M2-8:2 FTS, CAS: STL02280

Signal: 1

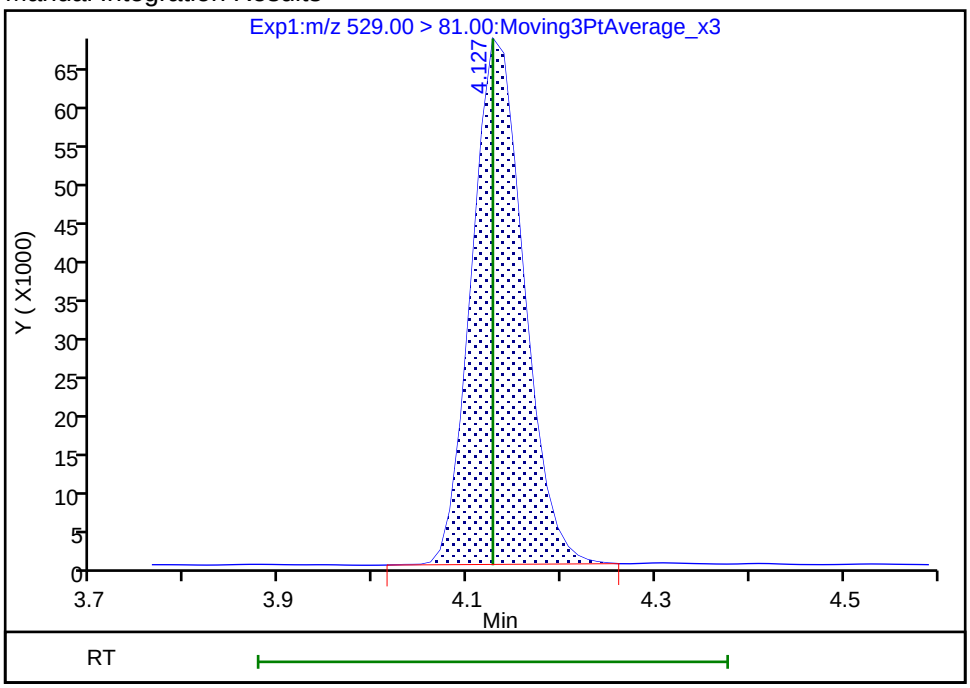
Processing Integration Results

RT: 4.13
Area: 263093
Amount: 1.054313
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 262219
Amount: 1.050810
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:40:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: CD-1RA Lab Sample ID: 480-198722-2

Matrix: Water Lab File ID: PA220613A15.d

Analysis Method: 537 (modified) Date Collected: 06/06/2022 12:40

Extraction Method: 3535 Date Extracted: 06/13/2022 08:55

Sample wt/vol: 265.4(mL) Date Analyzed: 06/13/2022 19:03

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 180744 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
375-22-4	Perfluorobutanoic acid (PFBA)	ND		4.7	
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.9	
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.9	
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.9	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.9	
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.9	
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.9	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.9	
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.9	
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.9	
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.9	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.9	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.9	
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.9	
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.7	
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.7	
27619-97-2	6:2 FTS	ND		4.7	
39108-34-4	8:2 FTS	ND		1.9	

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: CD-1RA Lab Sample ID: 480-198722-2

Matrix: Water Lab File ID: PA220613A15.d

Analysis Method: 537 (modified) Date Collected: 06/06/2022 12:40

Extraction Method: 3535 Date Extracted: 06/13/2022 08:55

Sample wt/vol: 265.4(mL) Date Analyzed: 06/13/2022 19:03

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 180744 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	77		50-150
STL00992	13C4 PFBA	106		50-150
STL01893	13C5 PFPeA	105		50-150
STL00993	13C2 PFHxA	99		50-150
STL01892	13C4 PFHpA	100		50-150
STL00990	13C4 PFOA	100		50-150
STL00995	13C5 PFNA	85		50-150
STL00996	13C2 PFDA	82		50-150
STL00997	13C2 PFUnA	76		50-150
STL00998	13C2 PFDoA	70		50-150
STL02116	13C2 PFTeDA	73		50-150
STL02337	13C3 PFBS	91		50-150
STL00994	18O2 PFHxS	88		50-150
STL00991	13C4 PFOS	76		50-150
STL02118	d3-NMeFOSAA	98		50-150
STL02117	d5-NEtFOSAA	101		50-150
STL02279	M2-6:2 FTS	87		50-150
STL02280	M2-8:2 FTS	86		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d
Lims ID: 480-198722-C-2-A
Client ID: CD-1RA
Sample Type: Client
Inject. Date: 13-Jun-2022 19:03:27 ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-198722-C-2-A
Misc. Info.: 200-0051257-015 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 14-Jun-2022 14:34:58 Calib Date: 05-May-2022 15:54:29
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1636

First Level Reviewer: khanphomeea Date: 14-Jun-2022 13:35:38
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	2.086	2.085	0.001	0.600	2078748	1.33		106	7632	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.086	2.093	-0.007	1.000	12722	0.008106			1.4	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.391	2.400	-0.009	0.687	1561953	1.31		105	2763	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.391	2.400	-0.009	1.000	5096	0.004002			0.2	M
D 47 13C3 PFBS										
301.90 > 80.00	2.418	2.427	-0.009	0.695	1830541	1.06		90.9	305360	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.418	2.427	-0.009	1.000	8508	0.004957	Target=2.15		6.8	M
298.90 > 99.00	2.418	2.427	-0.009	1.000	3453		2.46(1.07-3.22)		1.5	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.757	2.762	-0.005	0.793	1503874	1.23		98.5	3384	
D 11 18O2 PFHxS										
403.00 > 84.00	3.127	3.121	0.006	0.899	1412280	1.04		88.2	3107	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.127	3.121	0.006	1.000	6074	0.004601	Target=3.53		15.0	M
399.00 > 99.00	3.116	3.121	-0.005	0.996	2159		2.81(1.76-5.29)		2.1	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.127	3.132	-0.005	0.899	1644098	1.25		99.8	4202	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.127	3.132	-0.005	1.000	6370	0.004792	Target=3.75		1.6	M
363.00 > 169.00	3.127	3.132	-0.005	1.000	1946		3.27(1.87-5.62)		3.1	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.470	3.474	-0.004	0.997	228562	1.03		87.1	550	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.479	3.474	0.005	1.003	3216	-0.0166			1.8	M
* 62 13C2 PFOA										
415.00 > 370.00	3.479	3.482	-0.003		1839806	1.25			3590	
D 14 13C4 PFOA										
417.00 > 372.00	3.479	3.482	-0.003	1.000	1729857	1.25		99.9	2642	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.479	3.482	-0.003	1.000	8139	0.005251	Target=2.68		0.6	M
413.00 > 169.00	3.488	3.482	0.006	1.003	2384		3.41(1.34-4.02)		7.0	M
D 18 13C4 PFOS										
503.00 > 80.00	3.798	3.802	-0.004	1.092	969849	0.9114		76.3	2569	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.798	3.802	-0.004	1.000	3046	0.003515	Target=4.47		2.1	RM
499.00 > 99.00	3.808	3.802	0.006	1.003	1747		1.74(2.24-6.71)		1.7	M
D 19 13C5 PFNA										M
468.00 > 423.00	3.819	3.822	-0.003	1.098	1608276	1.07		85.5	2951	M
D 23 13C2 PFDA										M
515.00 > 470.00	4.126	4.127	-0.001	1.186	1494756	1.03		82.5	1593	M
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.126	4.127	-0.001	1.000	2817	0.002211	Target=9.31		1.4	M
513.00 > 169.00	4.114	4.127	-0.013	0.997	535		5.27(4.65-13.96)		2.4	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.103	4.127	-0.024	0.994	103	0.000408			2.5	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.126	4.127	-0.001	1.186	271877	1.02		85.5	758	
D 21 13C8 FOSA										M
506.00 > 78.00	4.194	4.195	-0.001	1.206	1545077	0.9687		77.5	1862	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.194	4.195	-0.001	1.000	914	0.000729			3.9	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.260	4.261	-0.001	1.224	235354	1.22		97.8	1134	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.296	4.273	0.023	1.008	294	0.001717			3.3	M
D 30 13C2 PFUnA										M
565.00 > 520.00	4.386	4.387	-0.001	1.261	1110722	0.9542		76.3	1611	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.397	4.398	-0.001	1.264	238155	1.27		101	972	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.409	4.410	-0.001	1.003	270	0.001511			3.8	M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.632	4.622	0.010	1.000	1158	0.001283	Target=6.95		0.3	
613.00 > 169.00	4.621	4.622	-0.001	0.998	205		5.65(3.48-10.43)		2.8	M
D 36 13C2 PFDoA										M
615.00 > 570.00	4.632	4.633	-0.001	1.331	1094063	0.8801		70.4	1403	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.041	5.032	0.009	1.000	142	0.001235	Target=0.96		2.8	M
713.00 > 219.00	5.031	5.032	-0.001	0.998	274		0.52(0.48-1.44)		8.3	M

Report Date: 14-Jun-2022 14:35:40 Chrom Revision: 2.3 18-May-2022 20:00:04
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.041	5.042	-0.001	1.449	930330	0.9157		73.3	1795	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

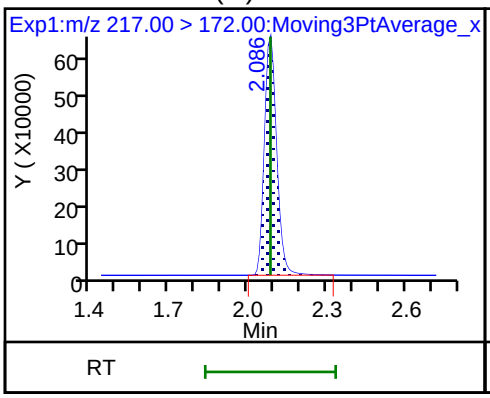
Report Date: 14-Jun-2022 14:35:40 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Burlington

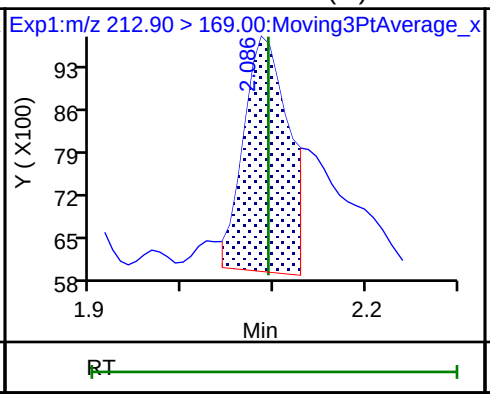
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d

Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		

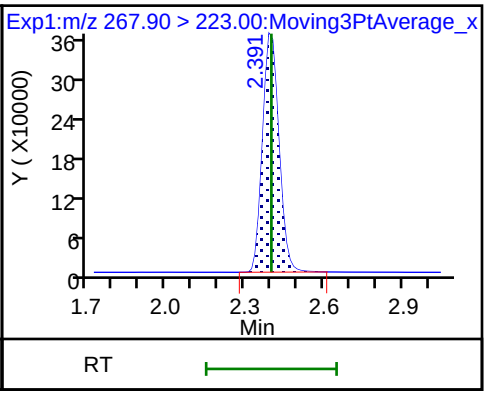
D 1 13C4 PFBA (M)



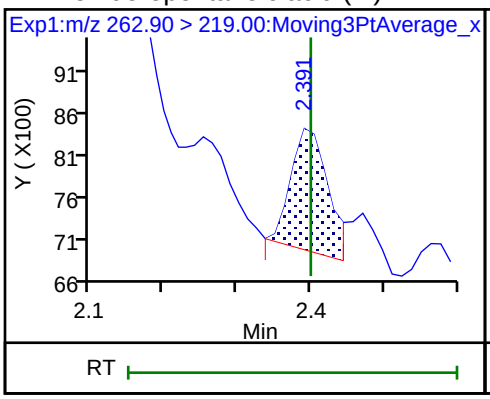
2 Perfluorobutanoic acid (M)



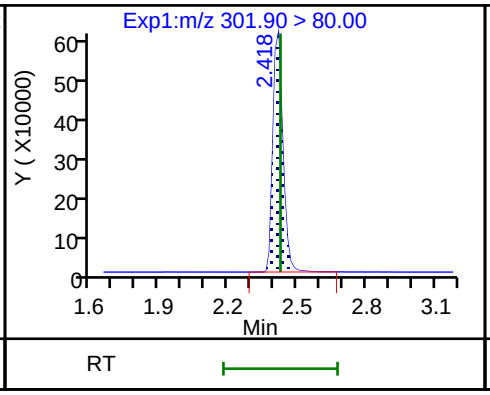
D 3 13C5 PFPeA



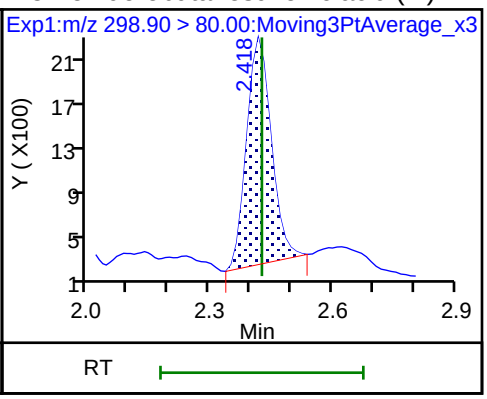
4 Perfluoropentanoic acid (M)



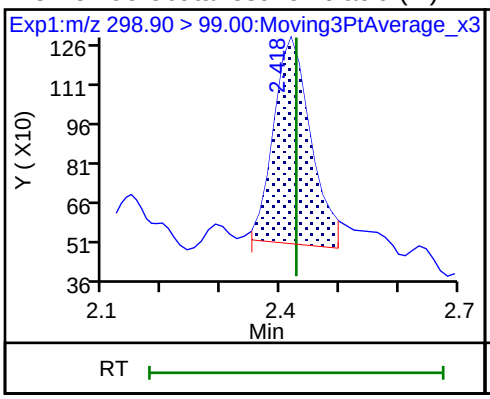
D 47 13C3 PFBS



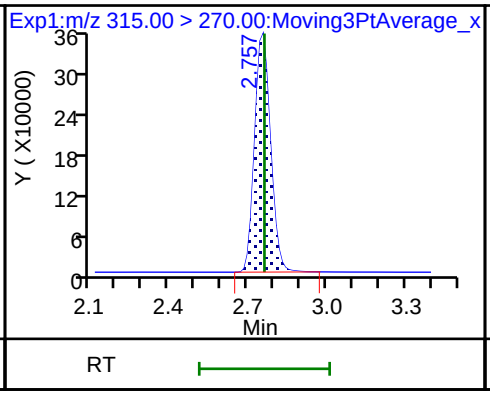
5 Perfluorobutanesulfonic acid (M)



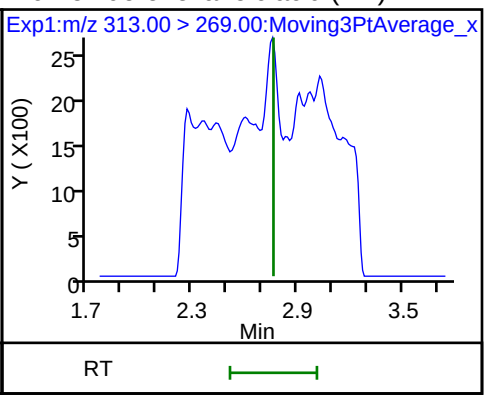
5 Perfluorobutanesulfonic acid (M)



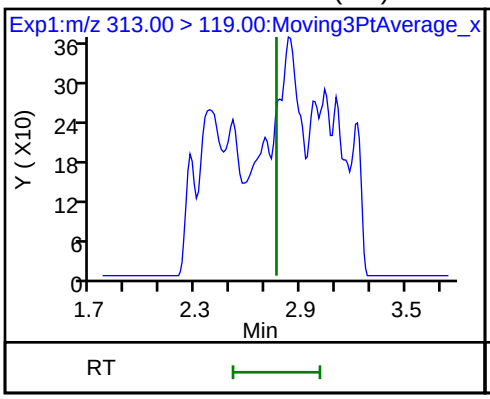
D 7 13C2 PFHxA



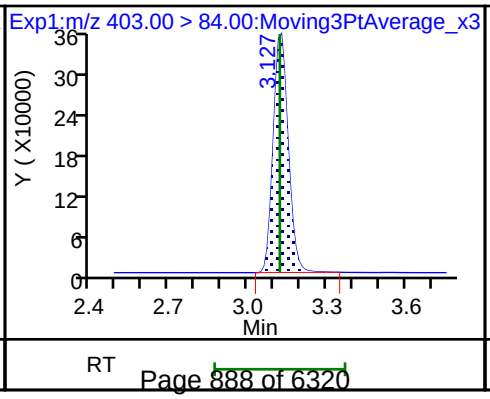
6 Perfluorohexanoic acid (ND)



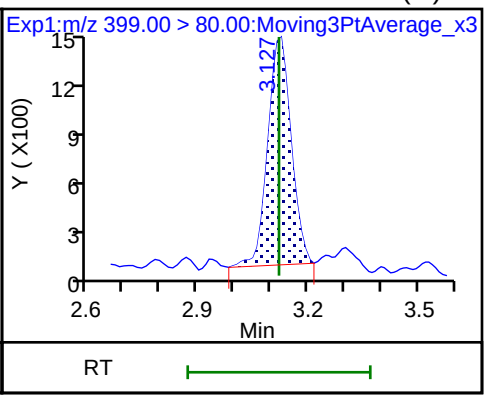
6 Perfluorohexanoic acid (ND)



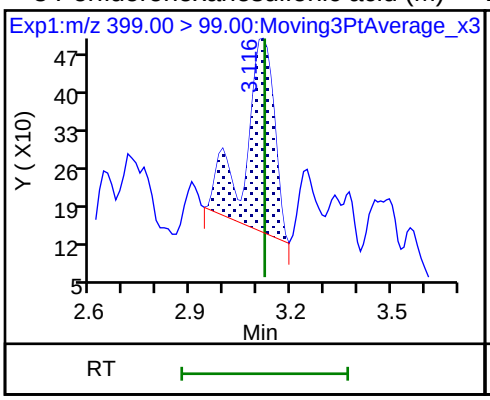
D 11 18O2 PFHxS



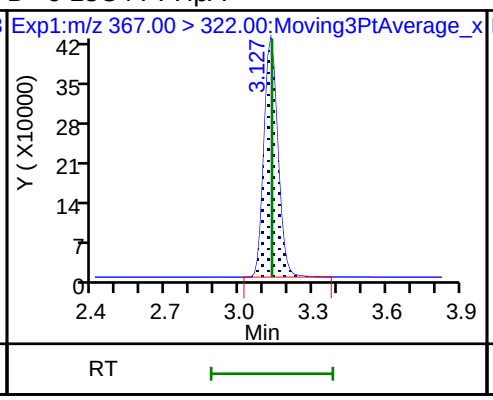
8 Perfluorohexanesulfonic acid (M)



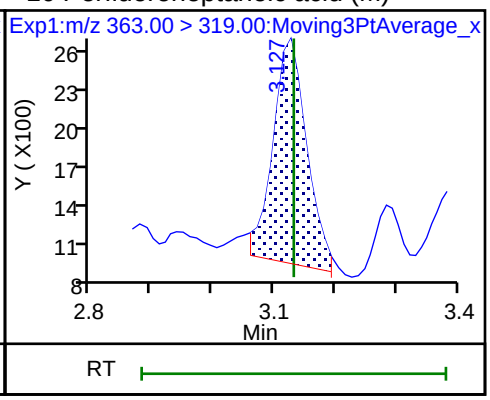
8 Perfluorohexanesulfonic acid (M)



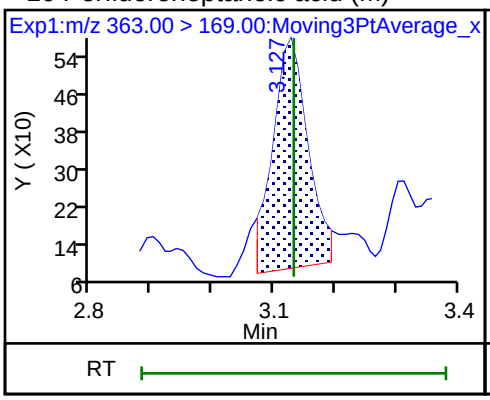
D 9 13C4 PFHpA



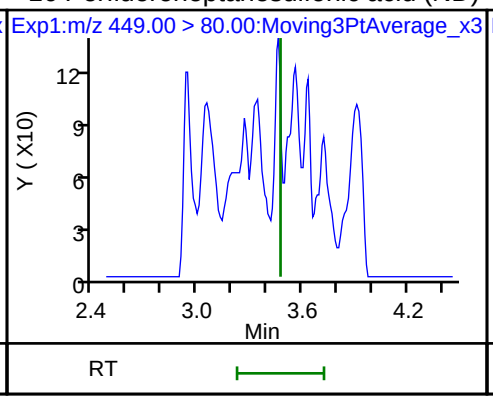
10 Perfluoroheptanoic acid (M)



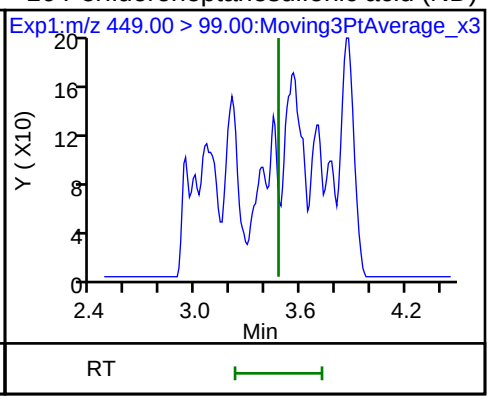
10 Perfluoroheptanoic acid (M)



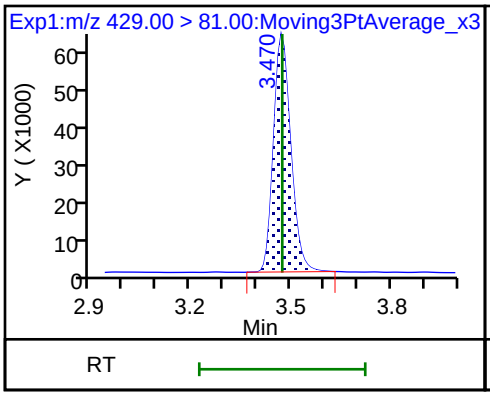
16 Perfluoroheptanesulfonic acid (ND)



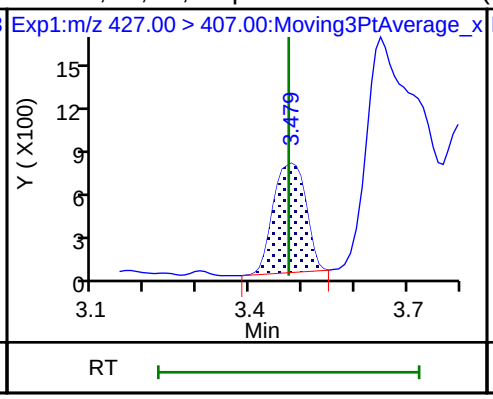
16 Perfluoroheptanesulfonic acid (ND)



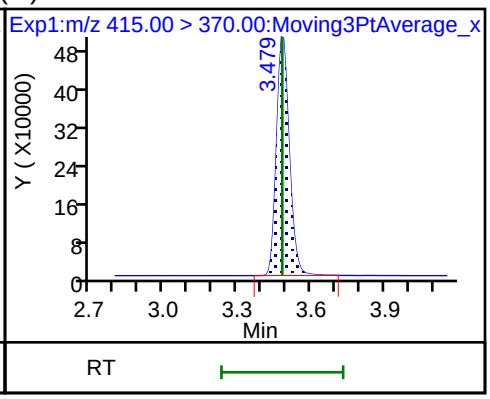
D 12 M2-6:2 FTS



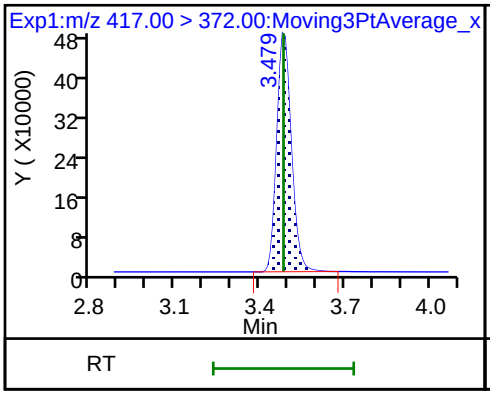
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



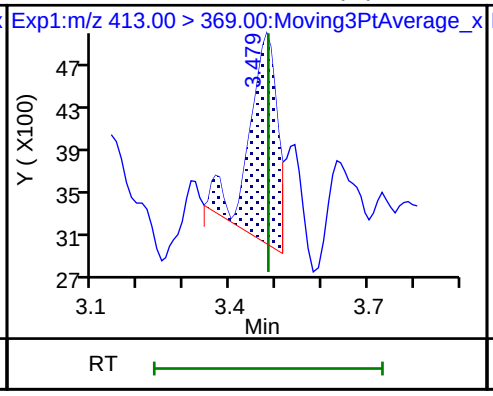
M2 13C2 PFOA



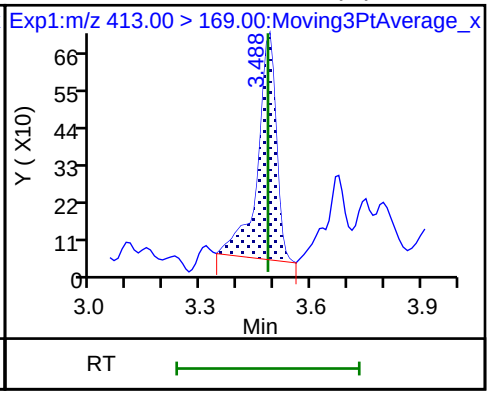
D 14 13C4 PFOA



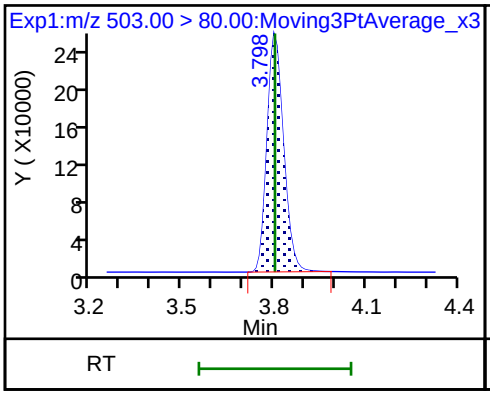
15 Perfluorooctanoic acid (M)



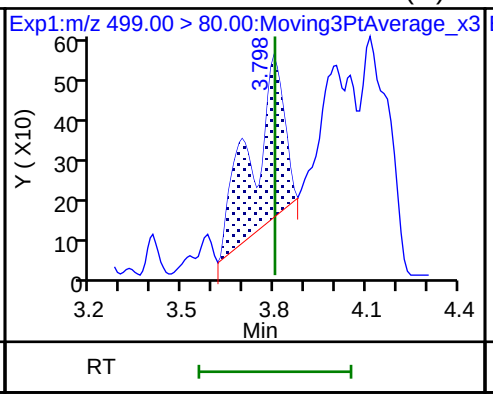
15 Perfluorooctanoic acid (M)



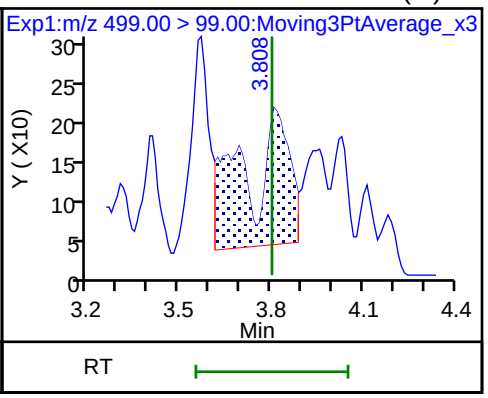
D 18 13C4 PFOS



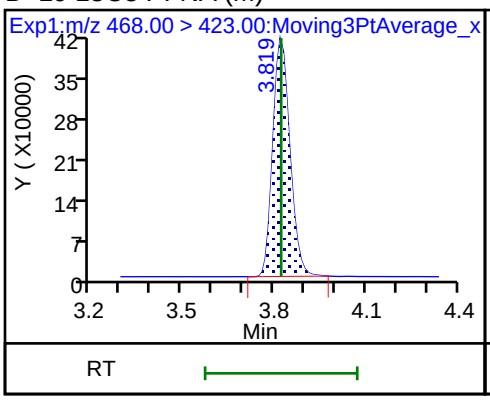
17 Perfluorooctanesulfonic acid (M)



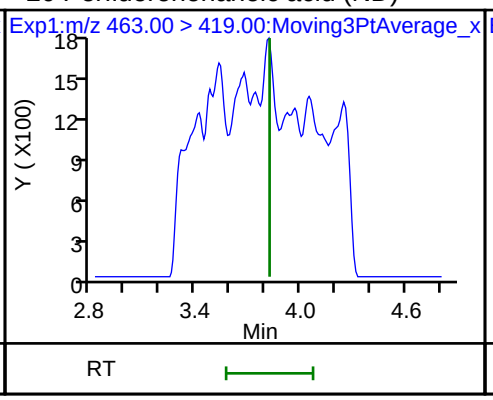
17 Perfluorooctanesulfonic acid (M)



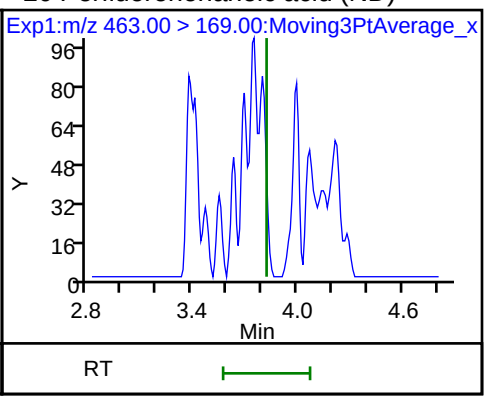
D 19 13C5 PFNA (M)



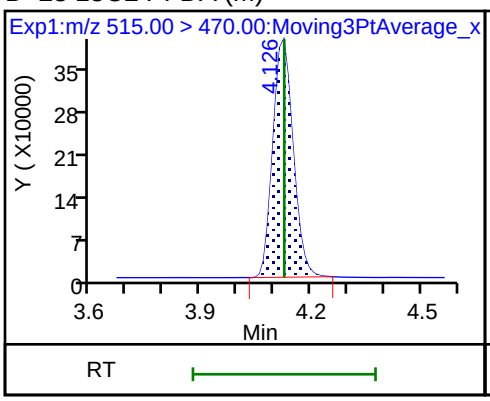
20 Perfluorononanoic acid (ND)



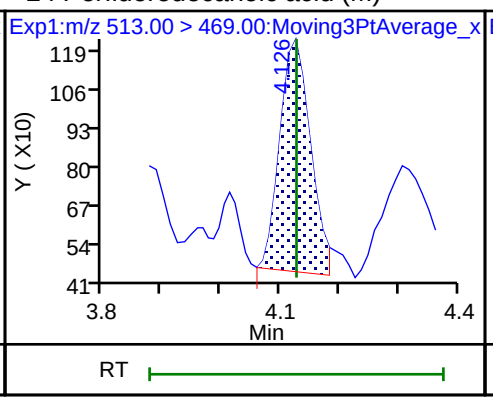
20 Perfluorononanoic acid (ND)



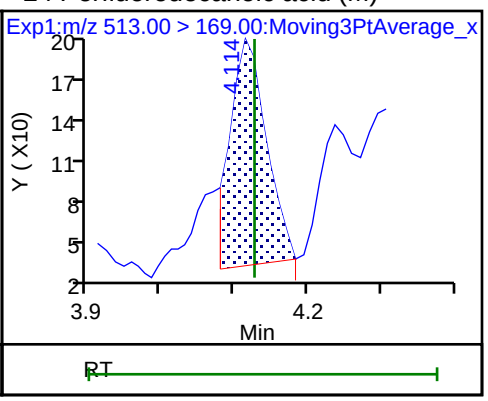
D 23 13C2 PFDA (M)



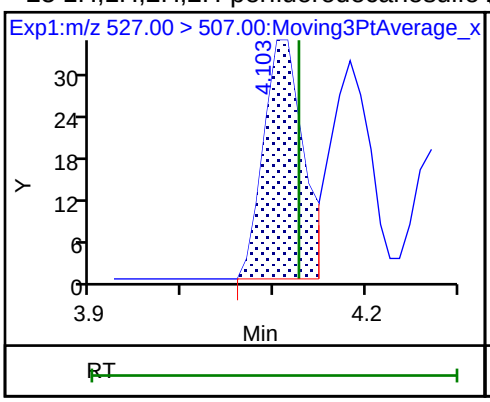
24 Perfluorodecanoic acid (M)



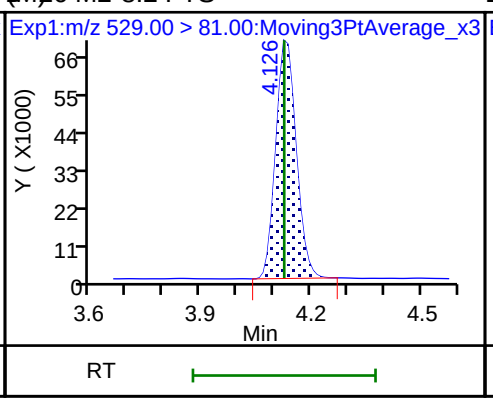
24 Perfluorodecanoic acid (M)



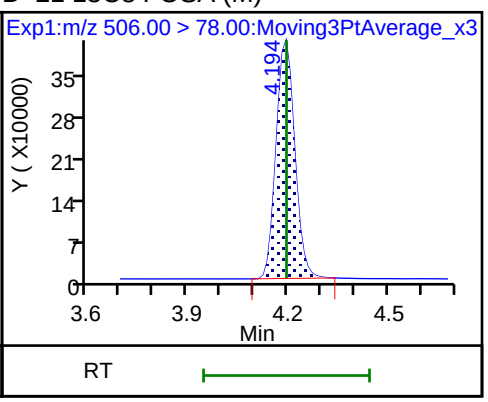
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



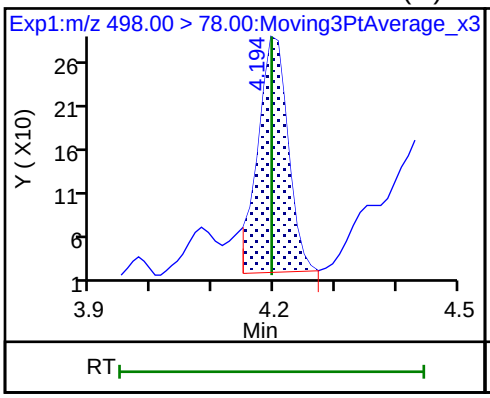
D 26 M2-8:2 FTS



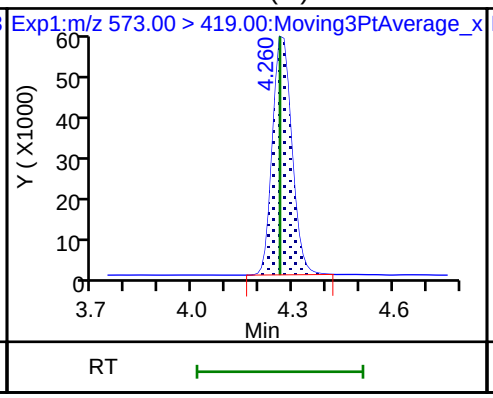
D 21 13C8 FOSA (M)



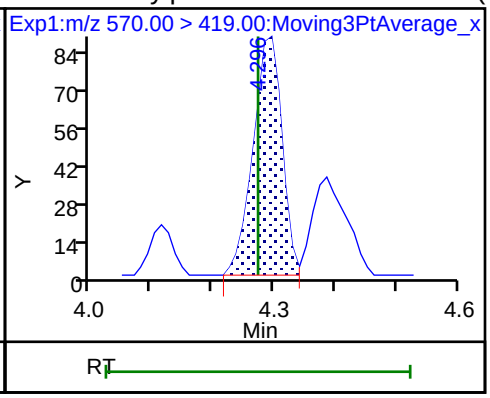
22 Perfluorooctanesulfonamide (M)



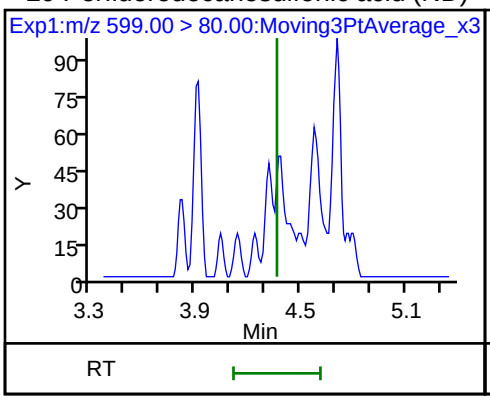
D 27 d3-NMeFOSAA (M)



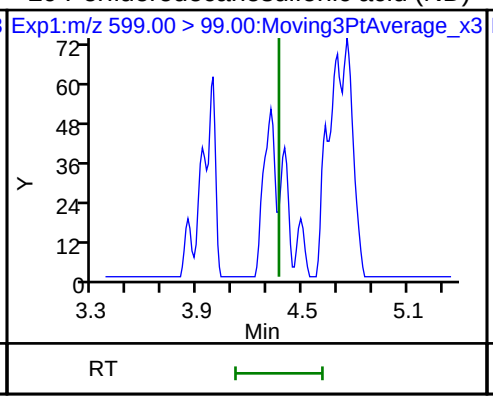
28 N-methylperfluorooctanesulfonami (M)



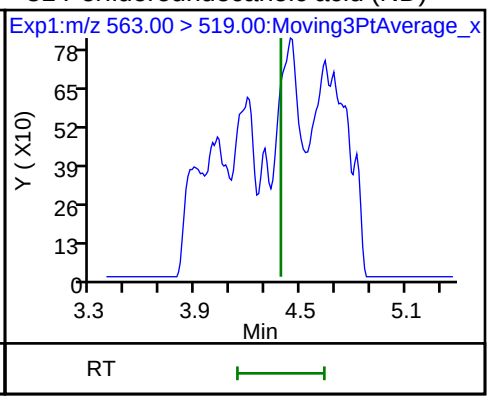
29 Perfluorodecanesulfonic acid (ND)



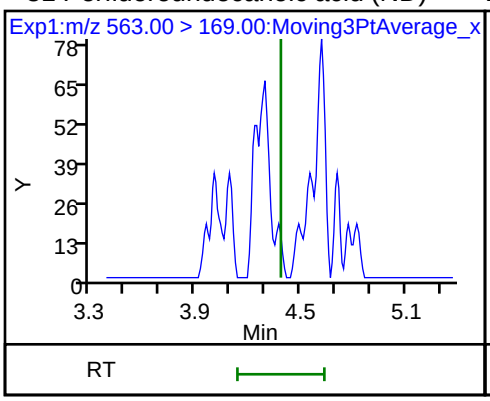
29 Perfluorodecanesulfonic acid (ND)



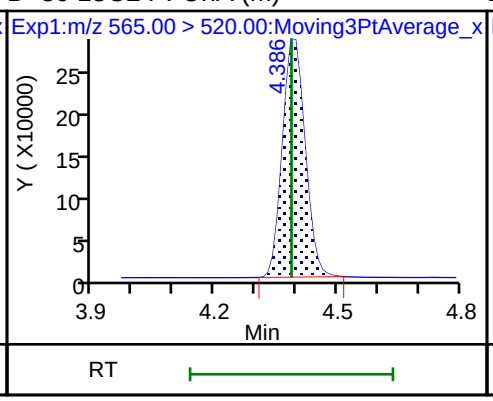
31 Perfluoroundecanoic acid (ND)



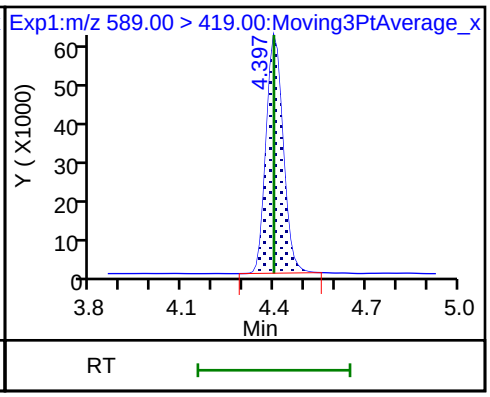
31 Perfluoroundecanoic acid (ND)



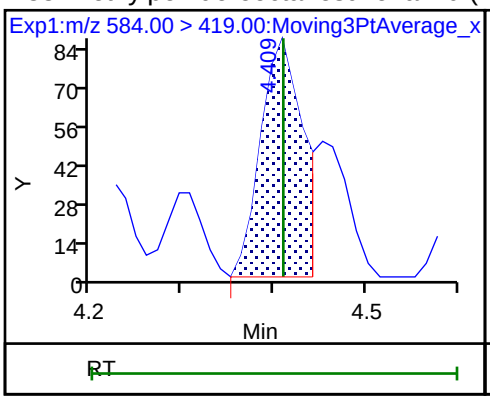
D 30 13C2 PFUnA (M)



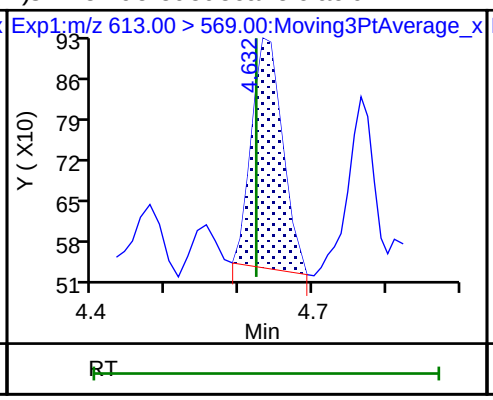
D 32 d5-NEtFOSAA



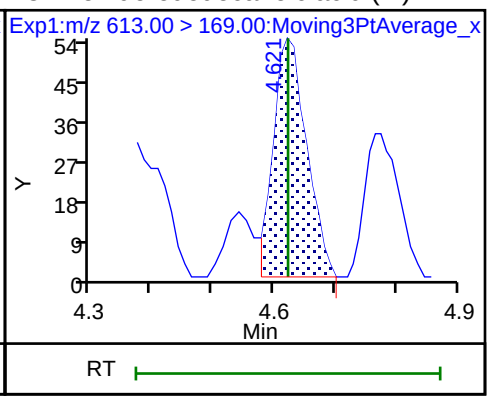
33 N-ethylperfluorooctanesulfonamid (M)



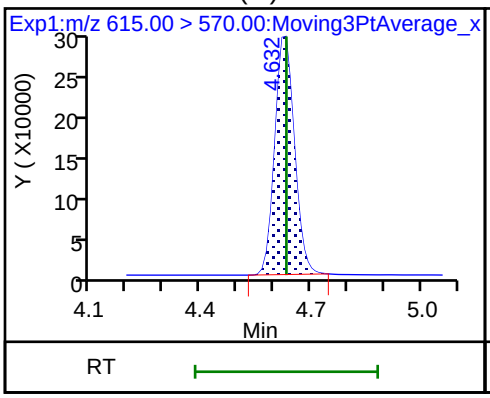
37 Perfluorododecanoic acid



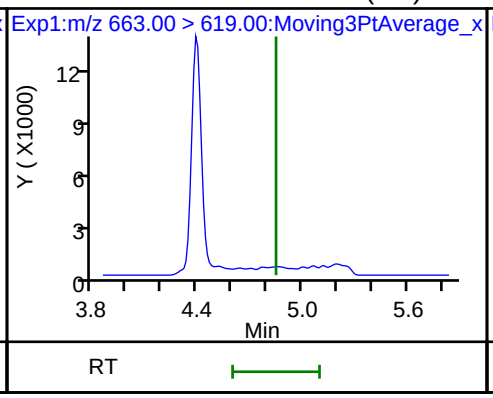
37 Perfluorododecanoic acid (M)



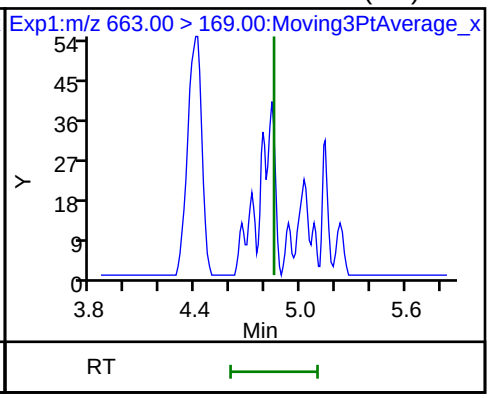
D 36 13C2 PFDoA (M)



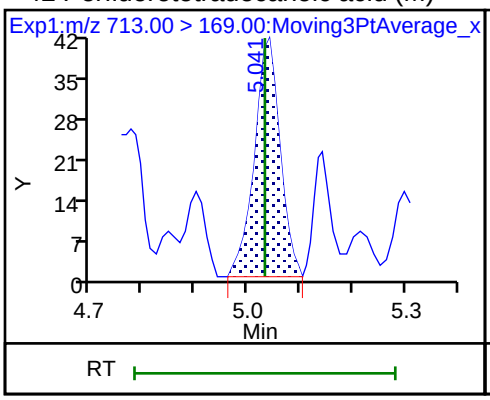
41 Perfluorotridecanoic acid (ND)



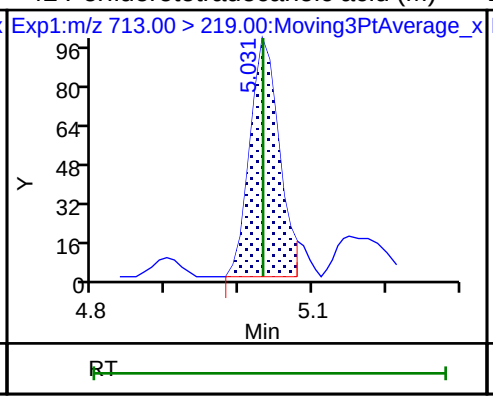
41 Perfluorotridecanoic acid (ND)



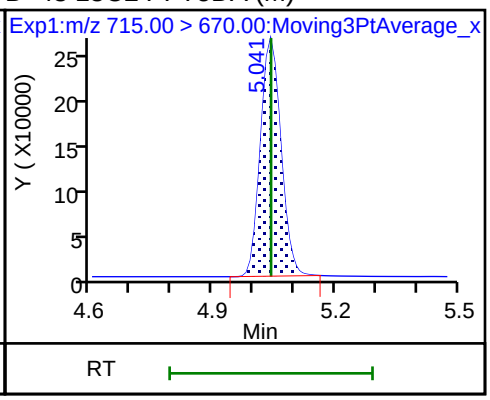
42 Perfluorotetradecanoic acid (M)



42 Perfluorotetradecanoic acid (M)



D 43 13C2 PFTeDA (M)



Manual Integration/User Assign Peak Report

Eurofins Burlington

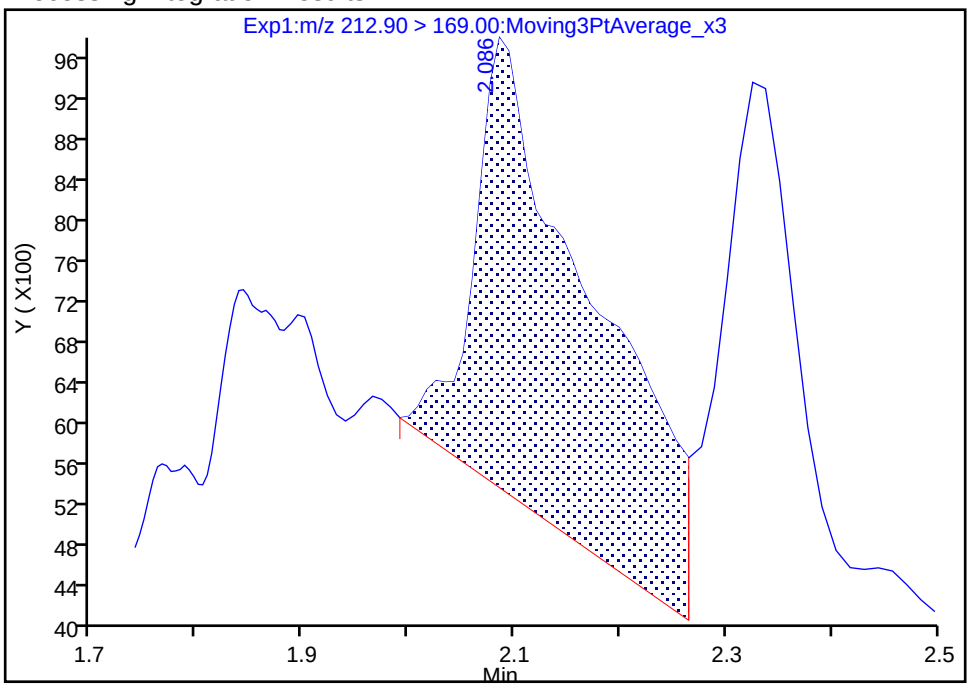
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

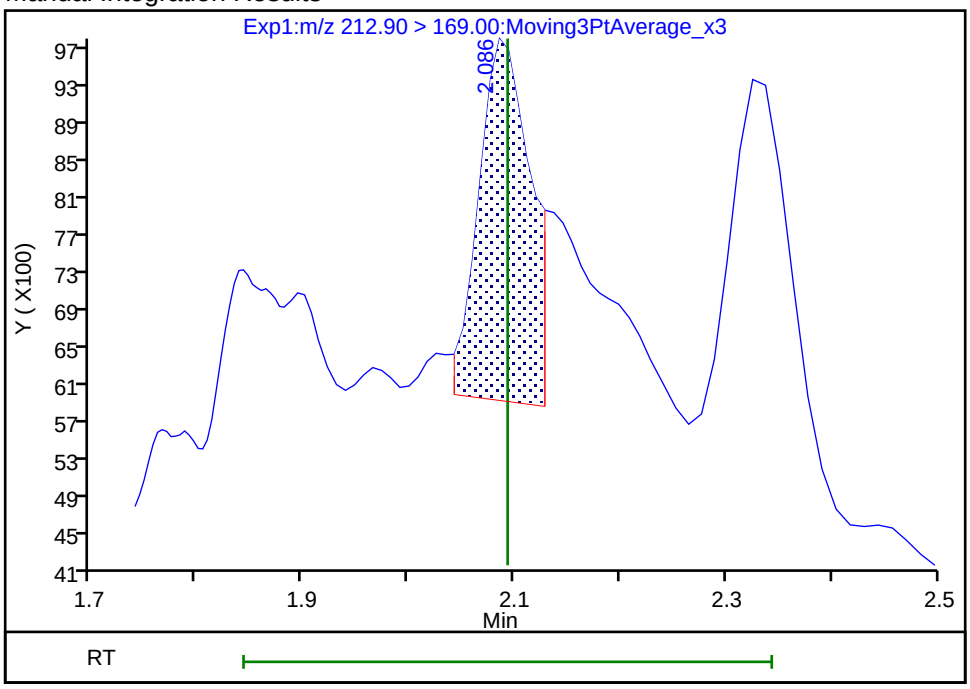
Processing Integration Results

RT: 2.09
Area: 35356
Amount: 0.022460
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 12722
Amount: 0.008106
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:31:56

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

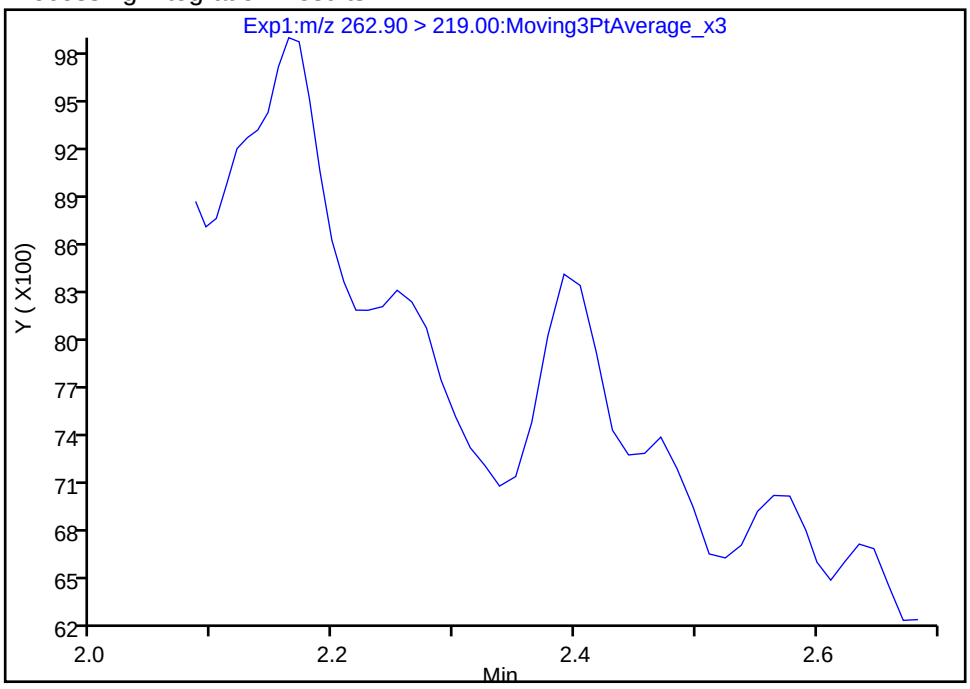
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

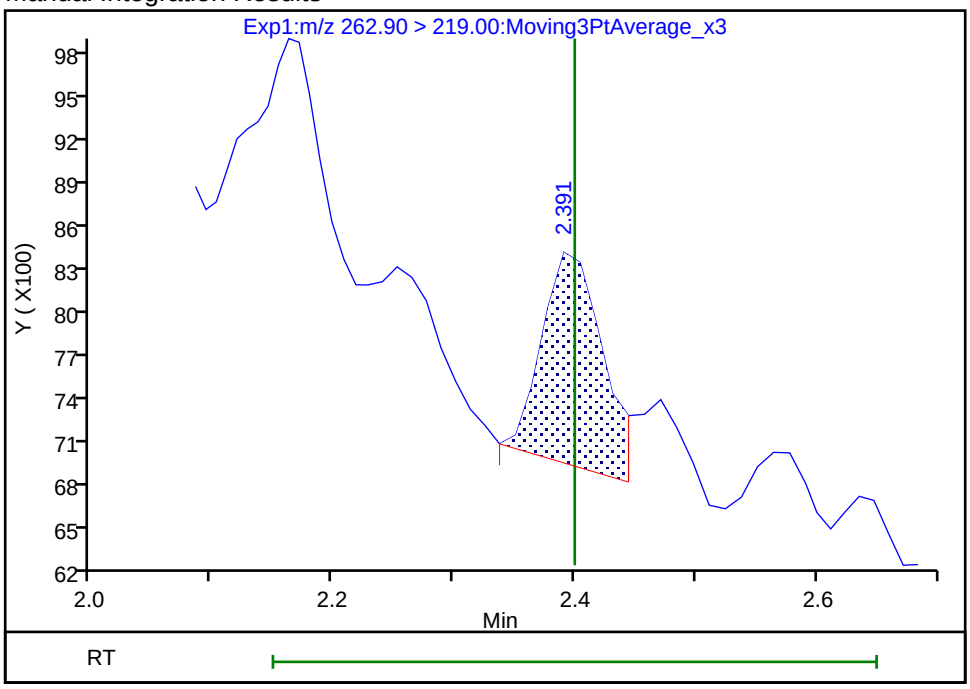
Not Detected
Expected RT: 2.40

Processing Integration Results



Manual Integration Results

RT: 2.39
Area: 5096
Amount: 0.004002
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:32:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

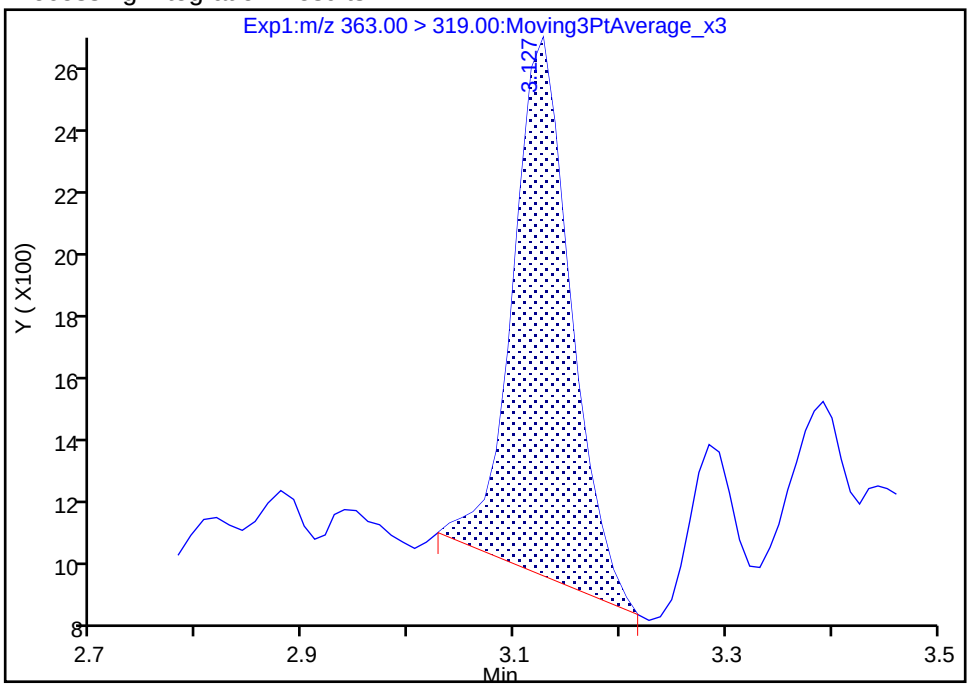
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

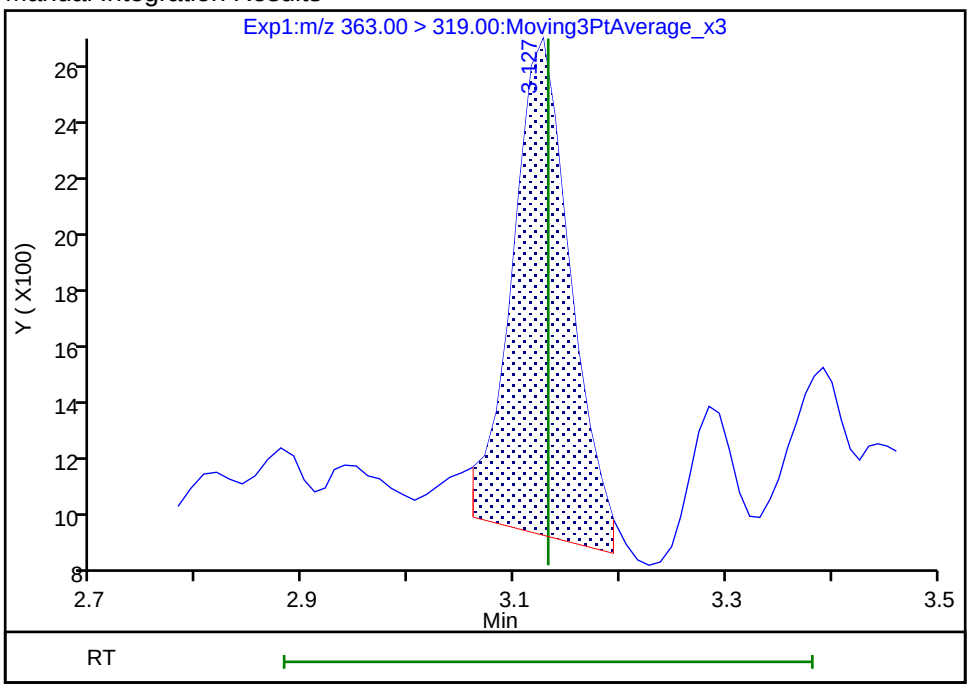
Processing Integration Results

RT: 3.13
Area: 6269
Amount: 0.004716
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 6370
Amount: 0.004792
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:33:00

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

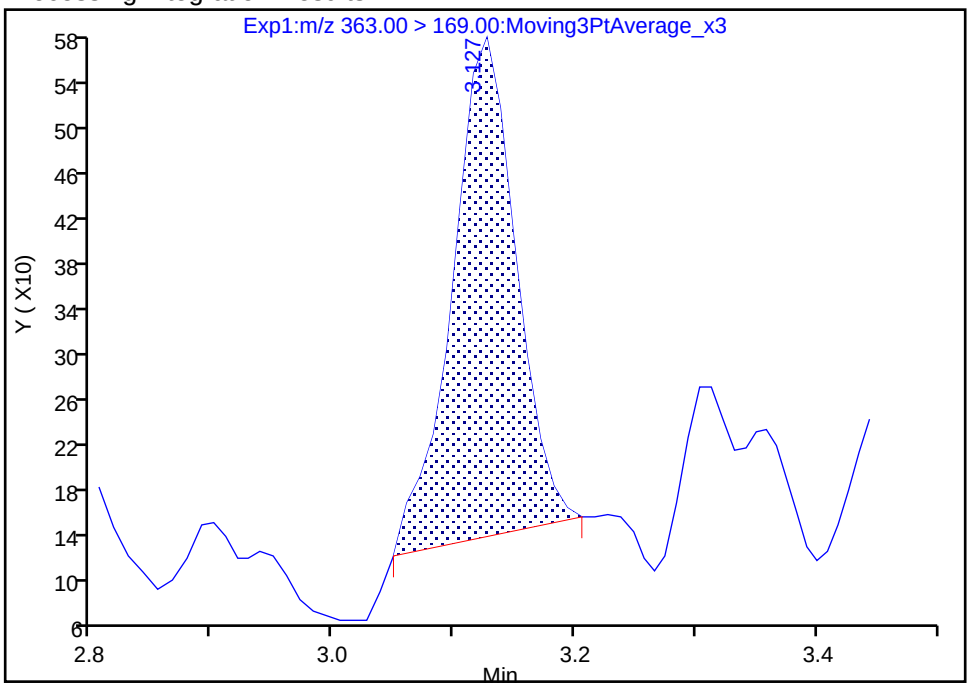
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

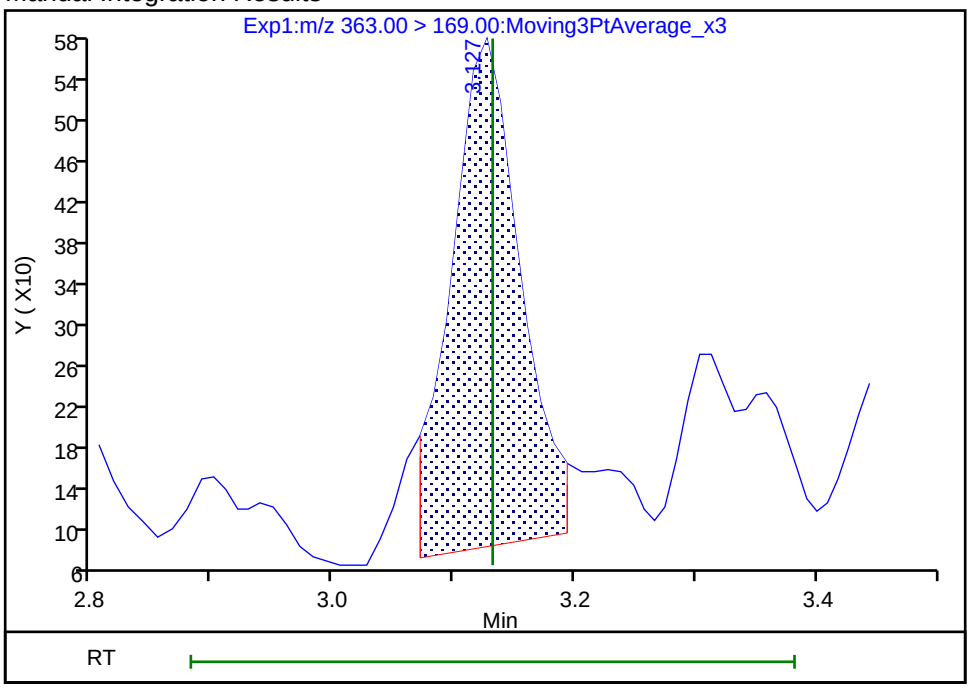
Processing Integration Results

RT: 3.13
Area: 1597
Amount: 0.004716
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 1946
Amount: 0.004792
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:33:02

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

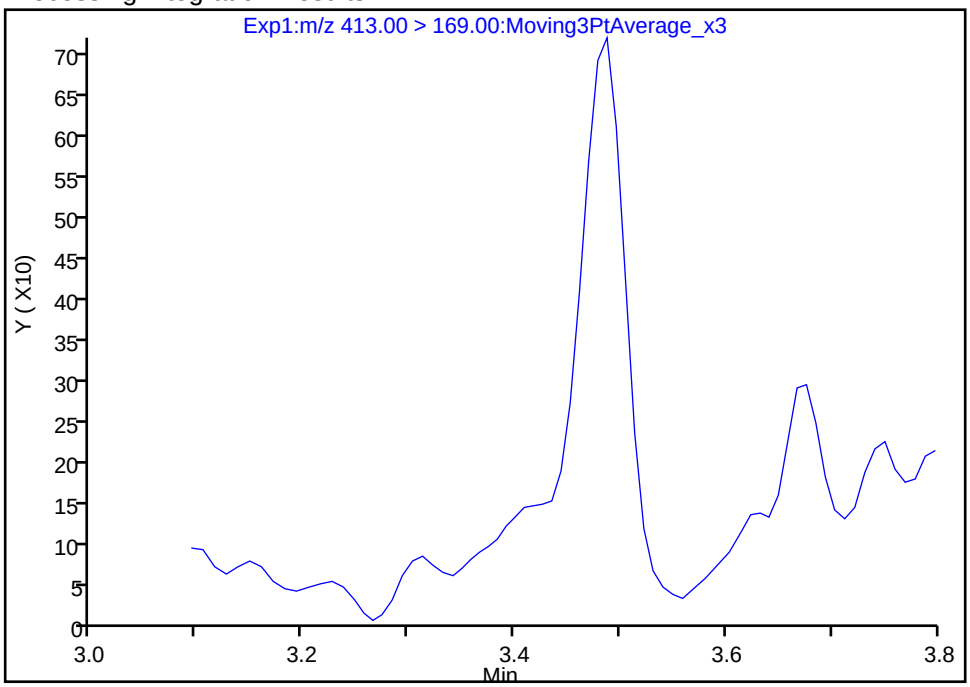
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

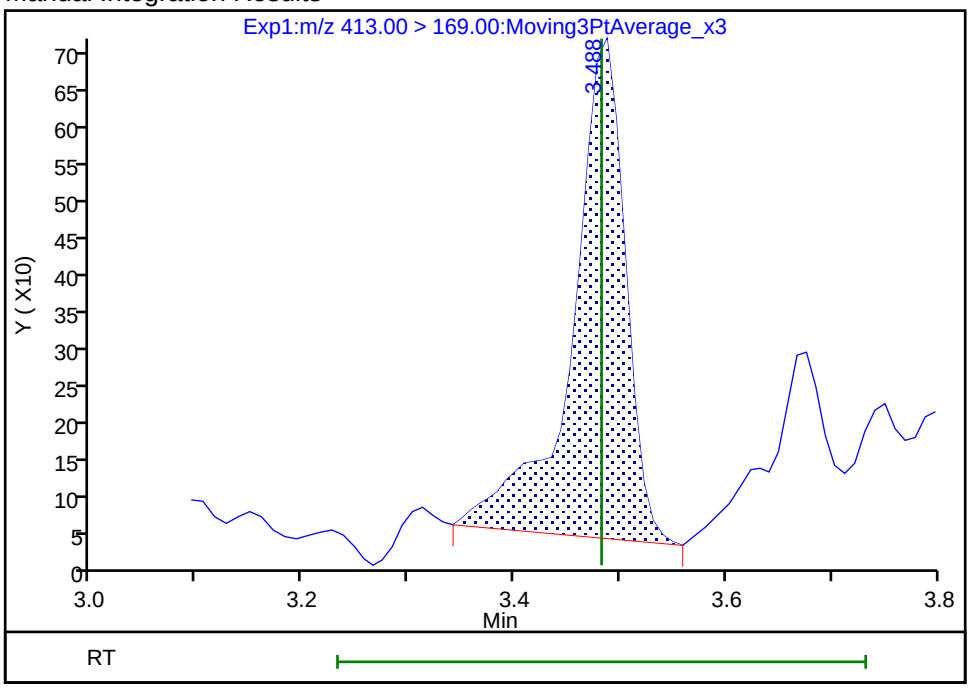
Not Detected
Expected RT: 3.48

Processing Integration Results



Manual Integration Results

RT: 3.49
Area: 2384
Amount: 0.005251
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:33:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

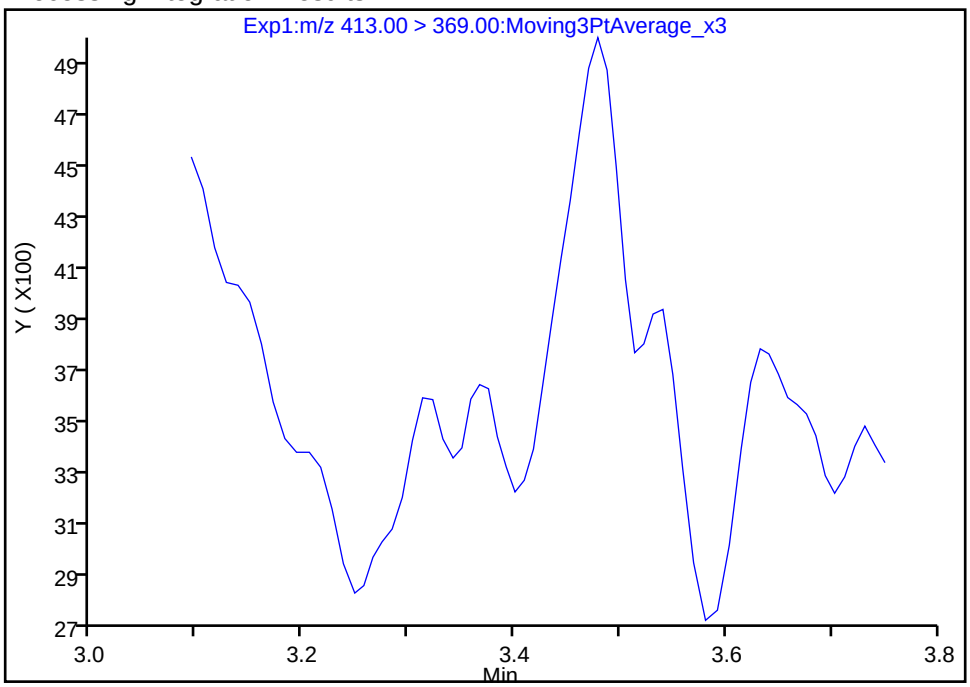
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

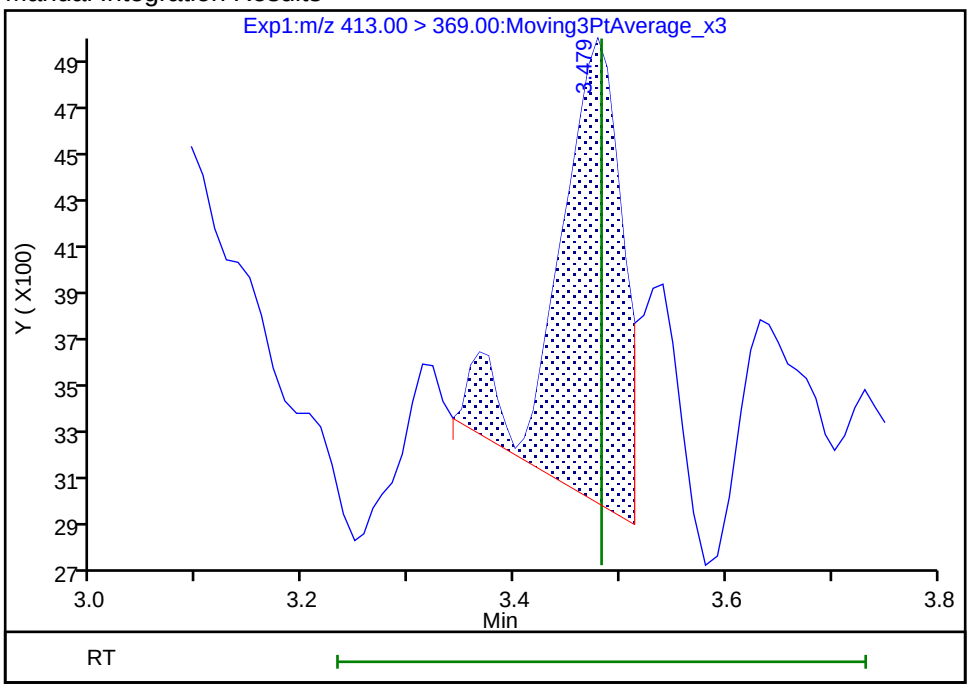
Not Detected
Expected RT: 3.48

Processing Integration Results



Manual Integration Results

RT: 3.48
Area: 8139
Amount: 0.005251
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:33:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

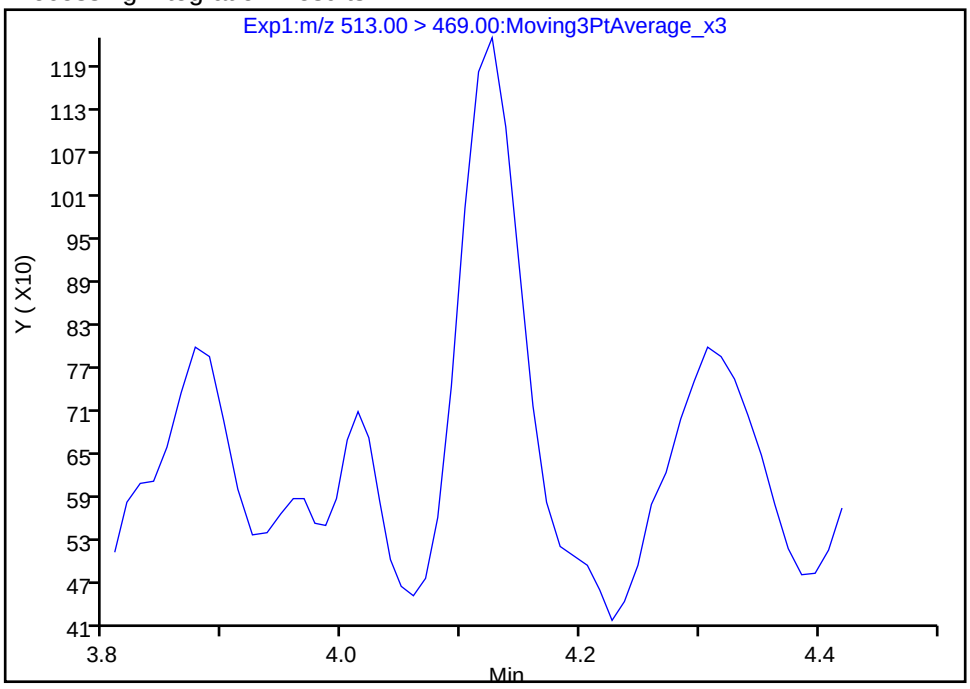
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

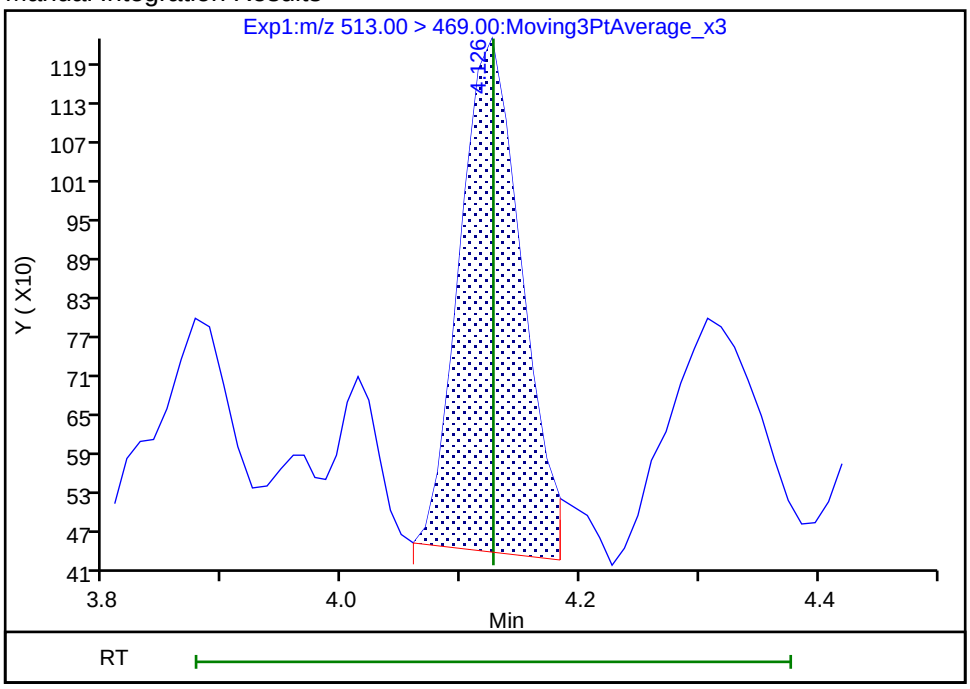
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.13
Area: 2817
Amount: 0.002211
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:34:16
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

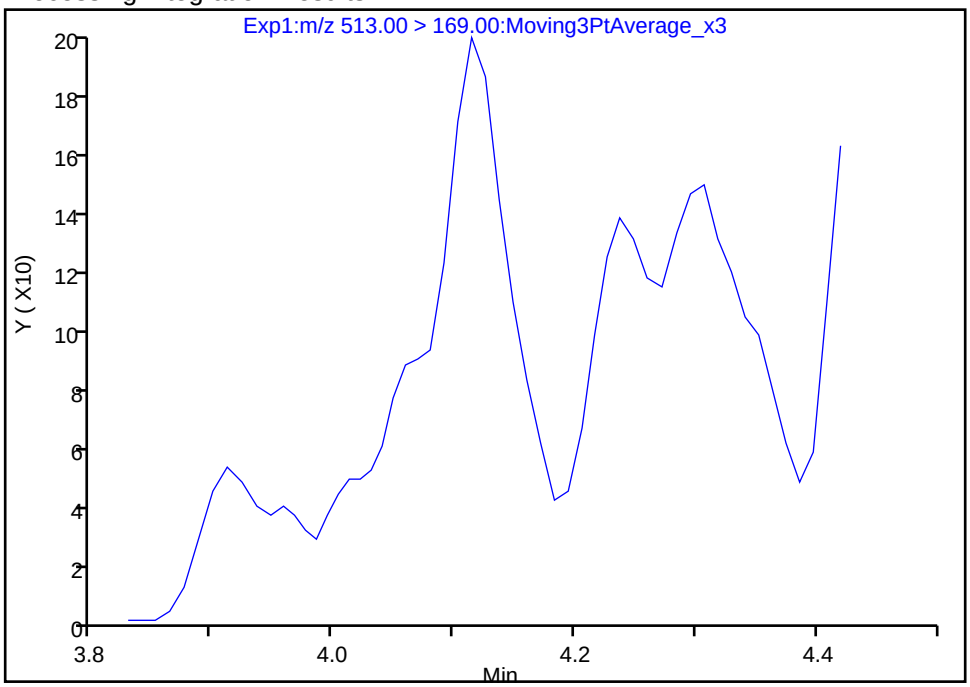
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

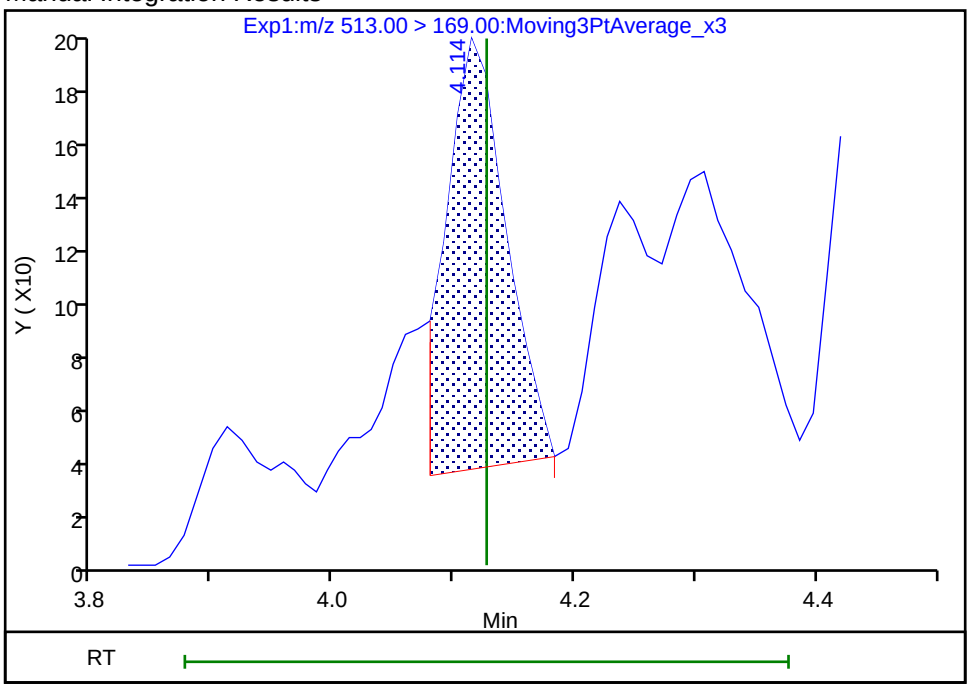
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.11
Area: 535
Amount: 0.002211
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:34:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

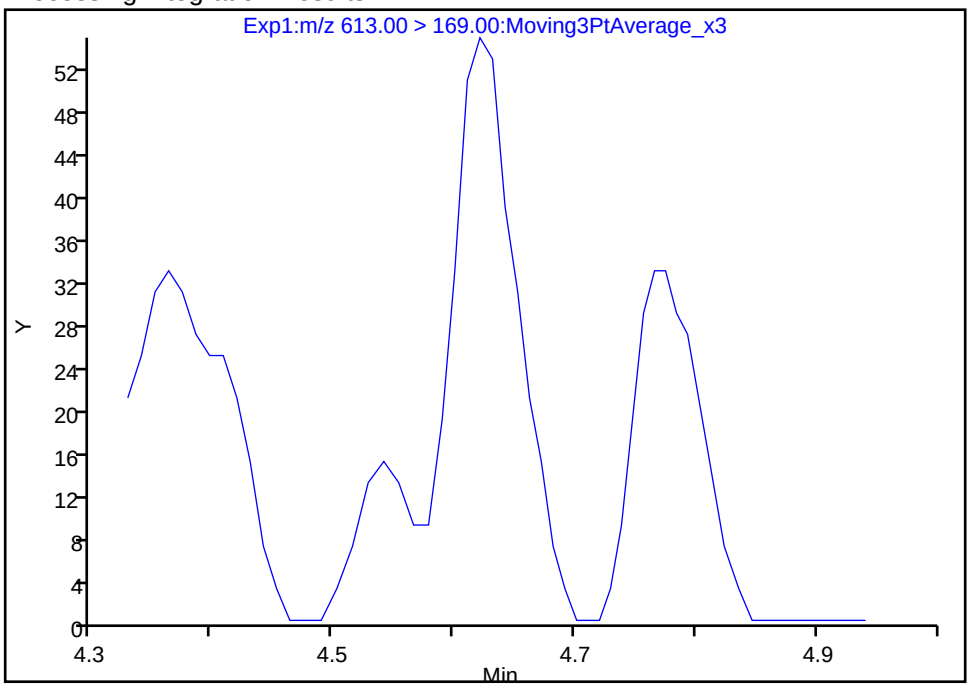
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

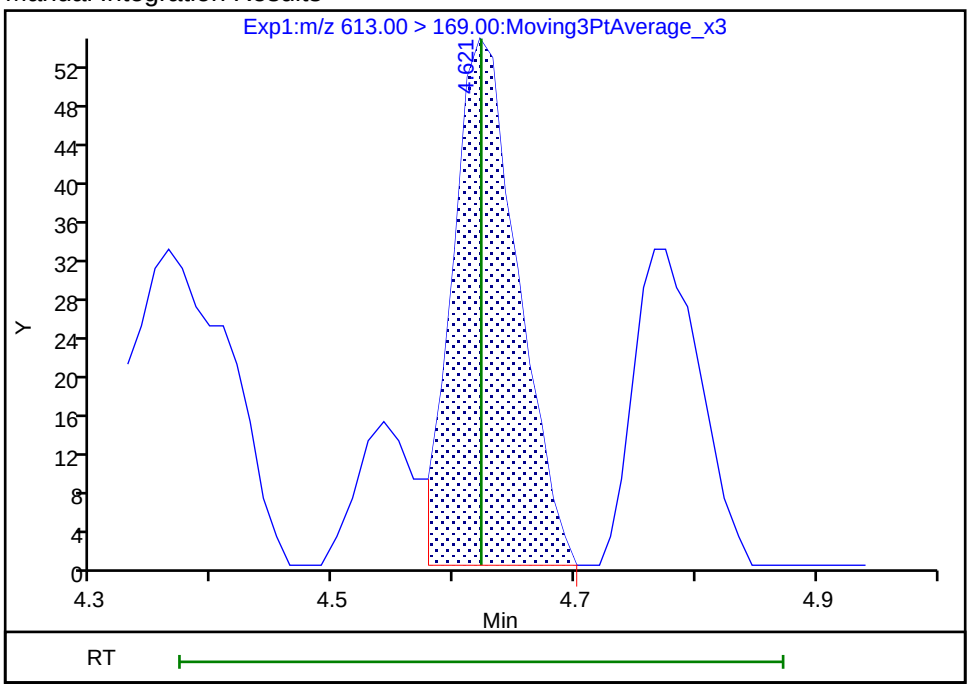
Not Detected
Expected RT: 4.62

Processing Integration Results



Manual Integration Results

RT: 4.62
Area: 205
Amount: 0.001283
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:35:16
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

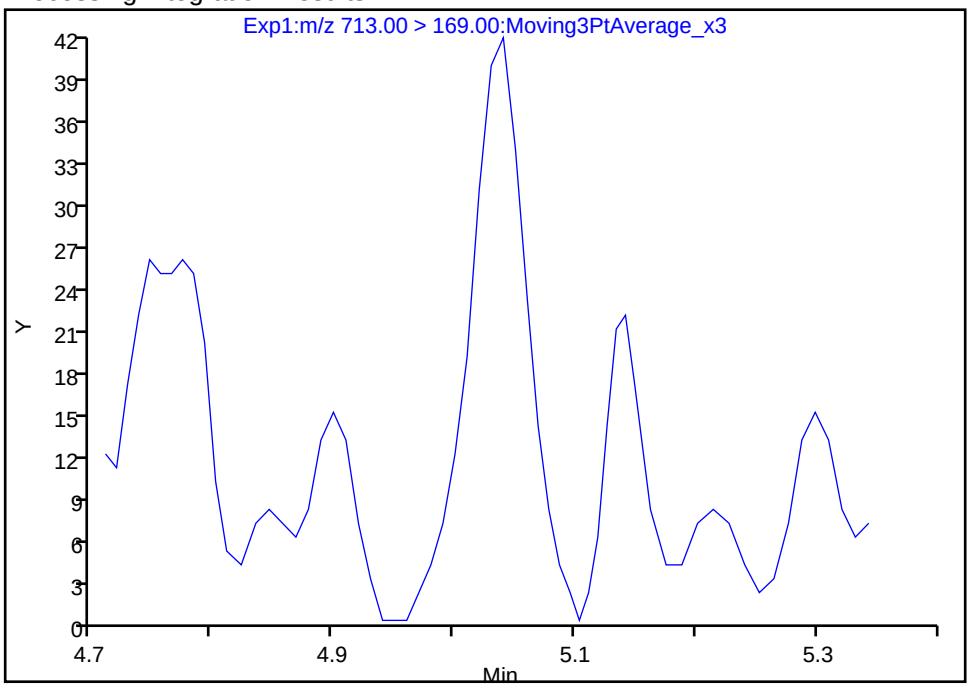
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

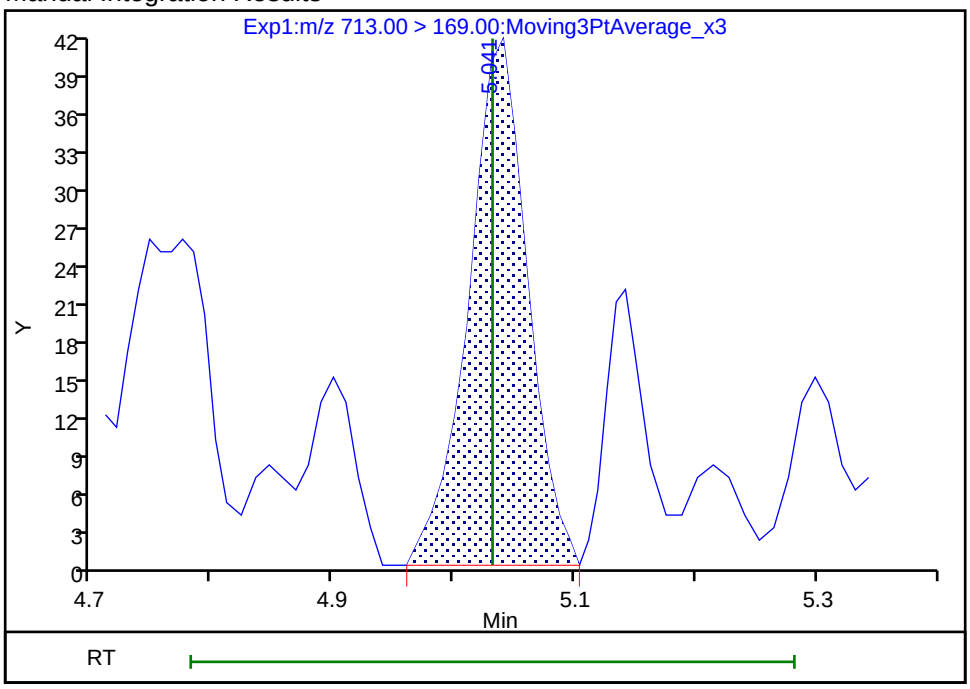
Processing Integration Results

Not Detected
Expected RT: 5.03



Manual Integration Results

RT: 5.04
Area: 142
Amount: 0.001235
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:35:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

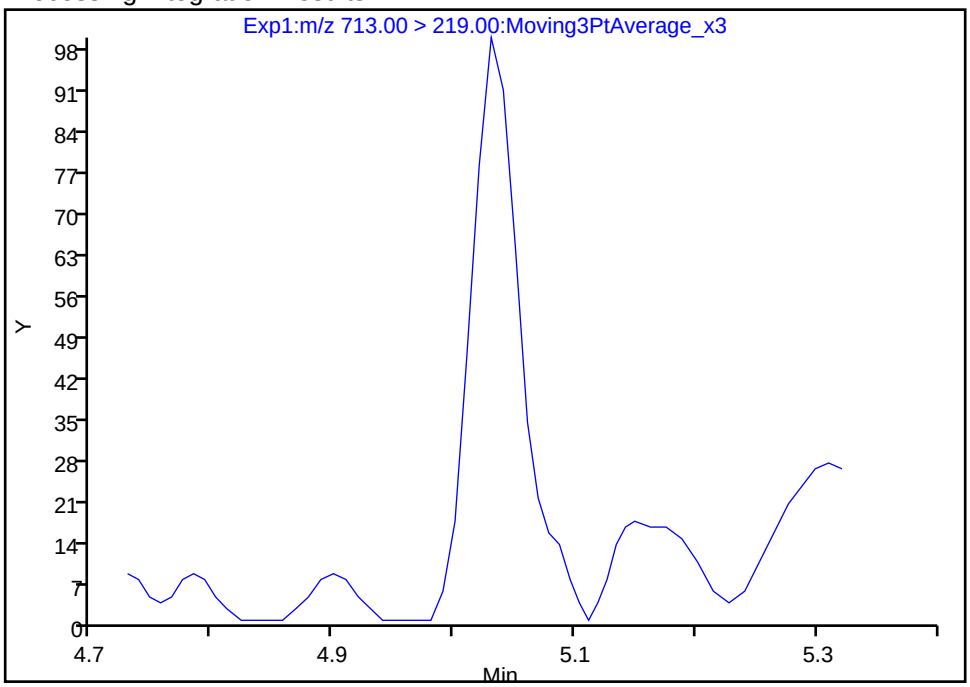
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

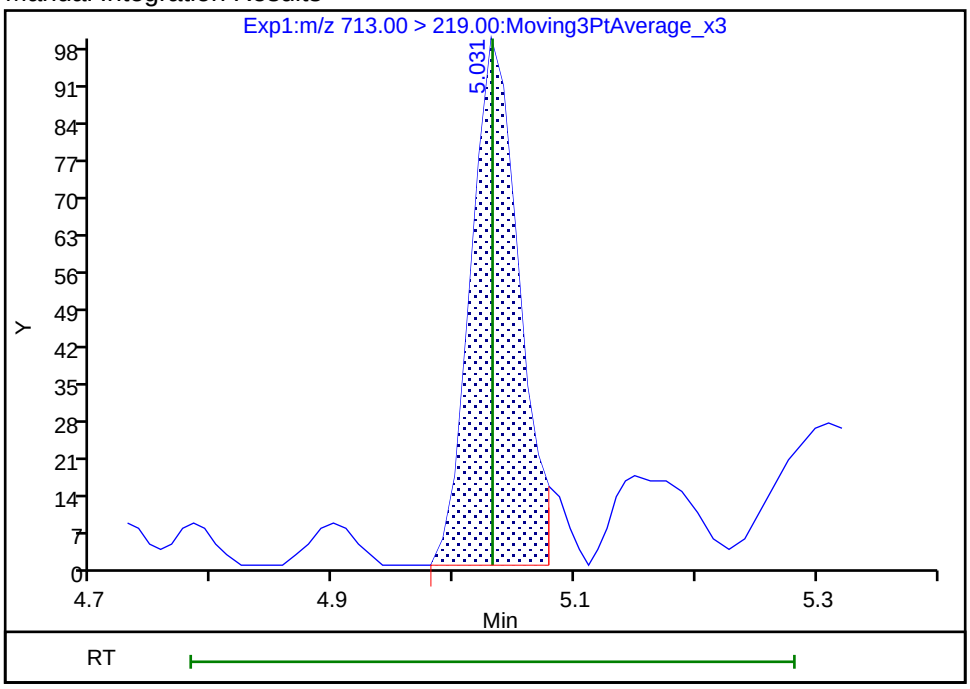
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.03
Area: 274
Amount: 0.001235
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:35:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

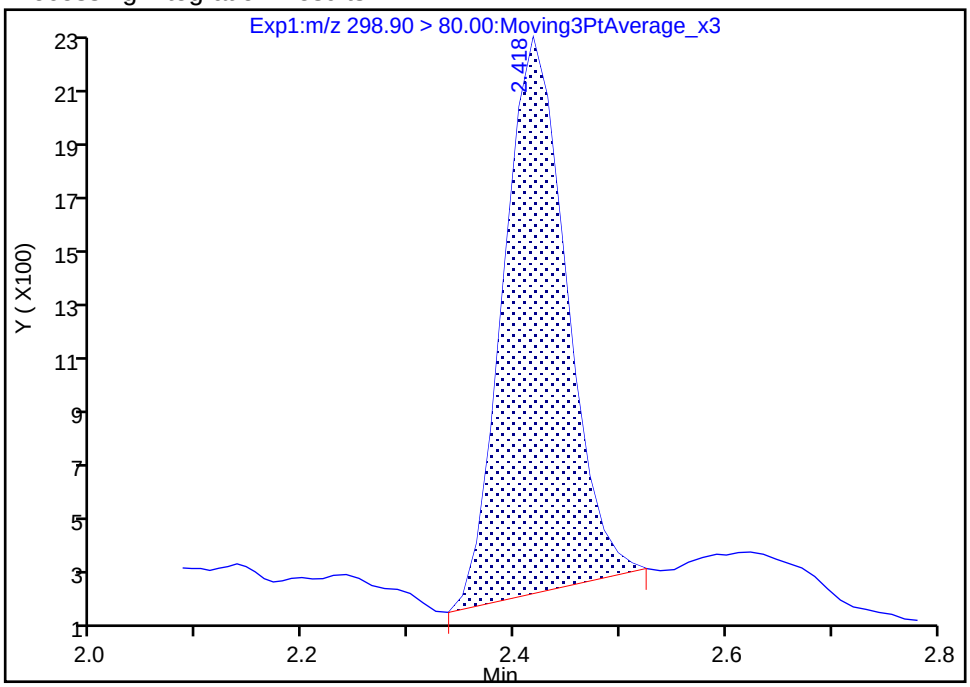
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

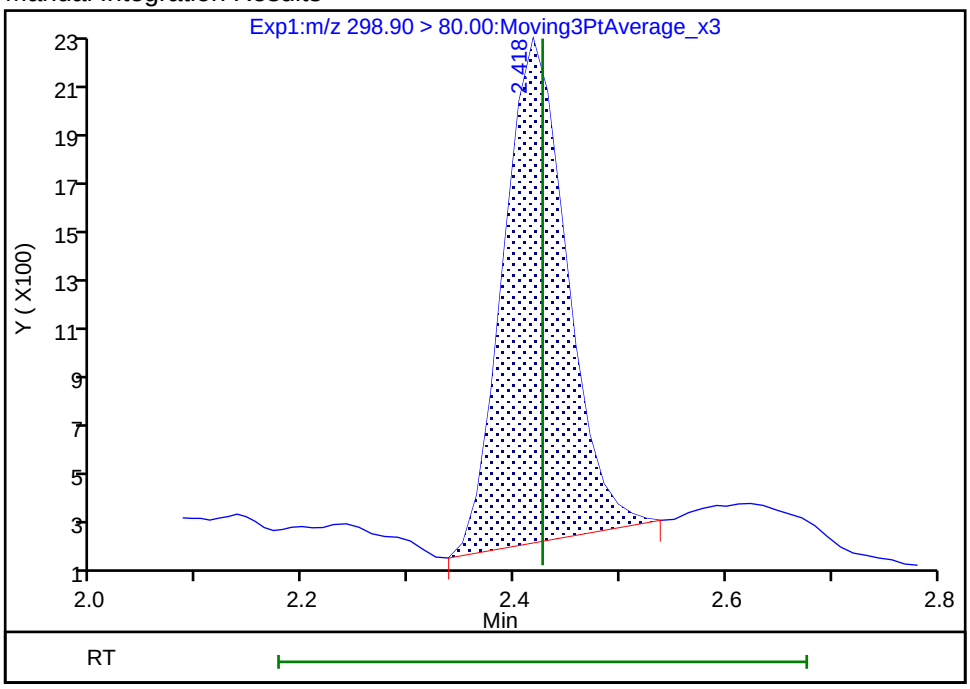
Processing Integration Results

RT: 2.42
Area: 8399
Amount: 0.004893
Amount Units: ng/ml



Manual Integration Results

RT: 2.42
Area: 8508
Amount: 0.004957
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:32:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

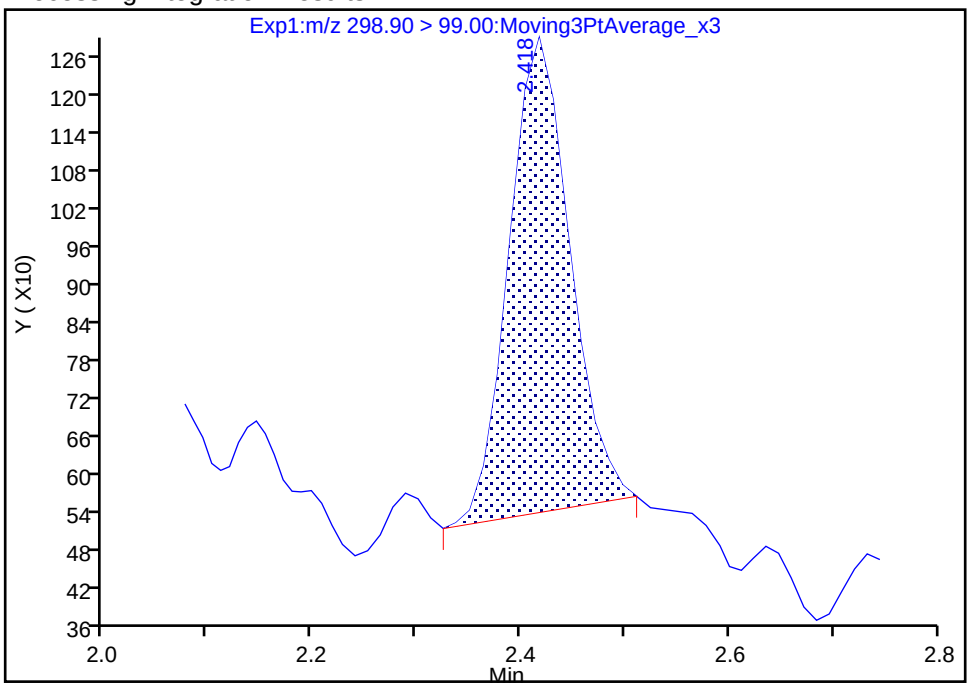
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

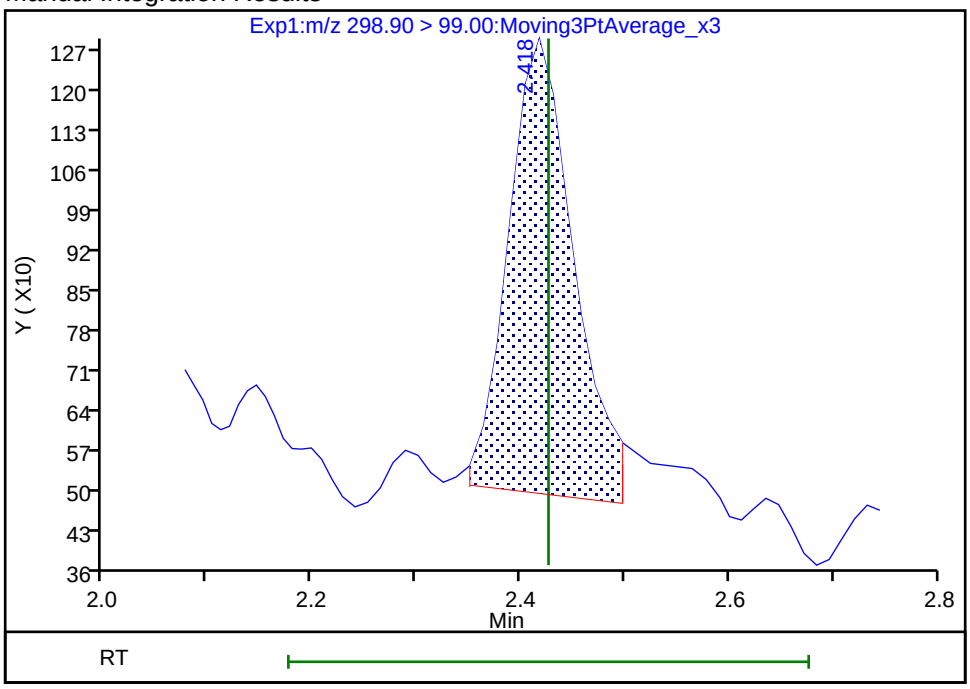
Processing Integration Results

RT: 2.42
Area: 3050
Amount: 0.004893
Amount Units: ng/ml



Manual Integration Results

RT: 2.42
Area: 3453
Amount: 0.004957
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:32:27

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

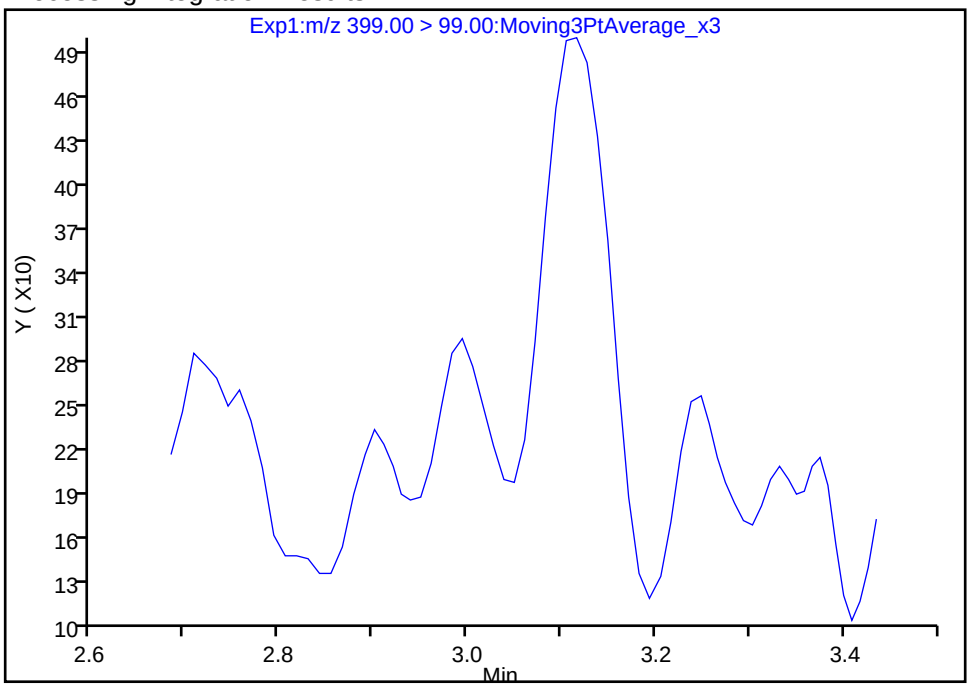
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

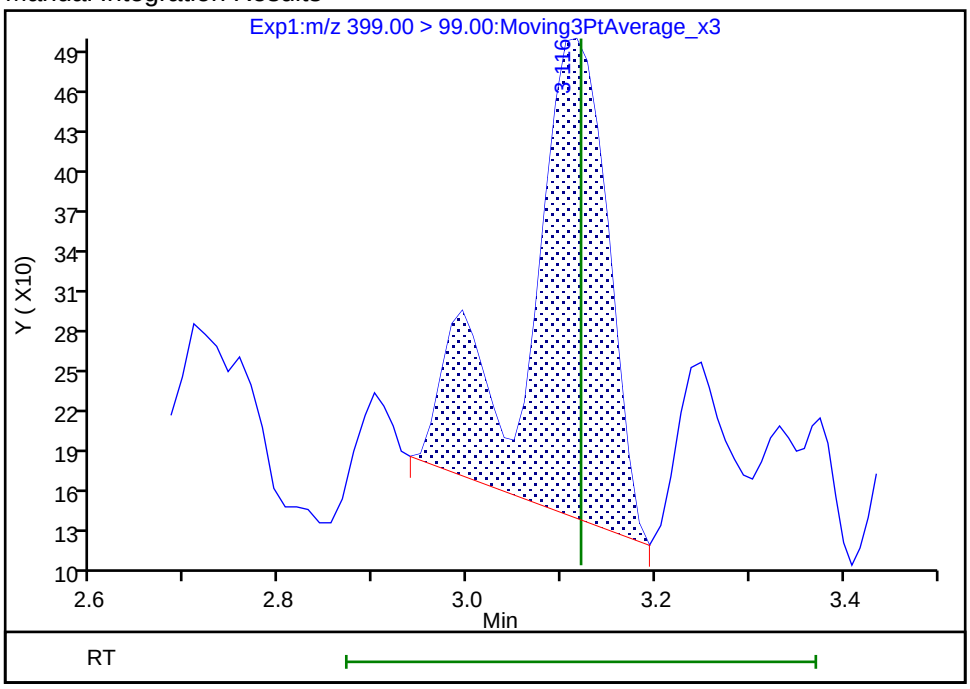
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.12
Area: 2159
Amount: 0.004601
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:32:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

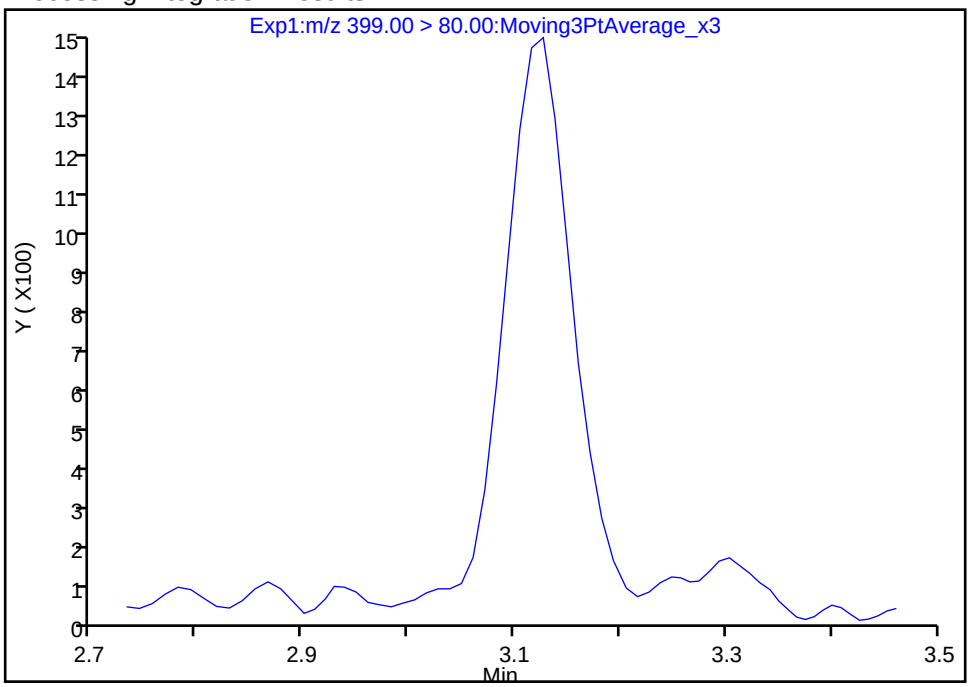
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

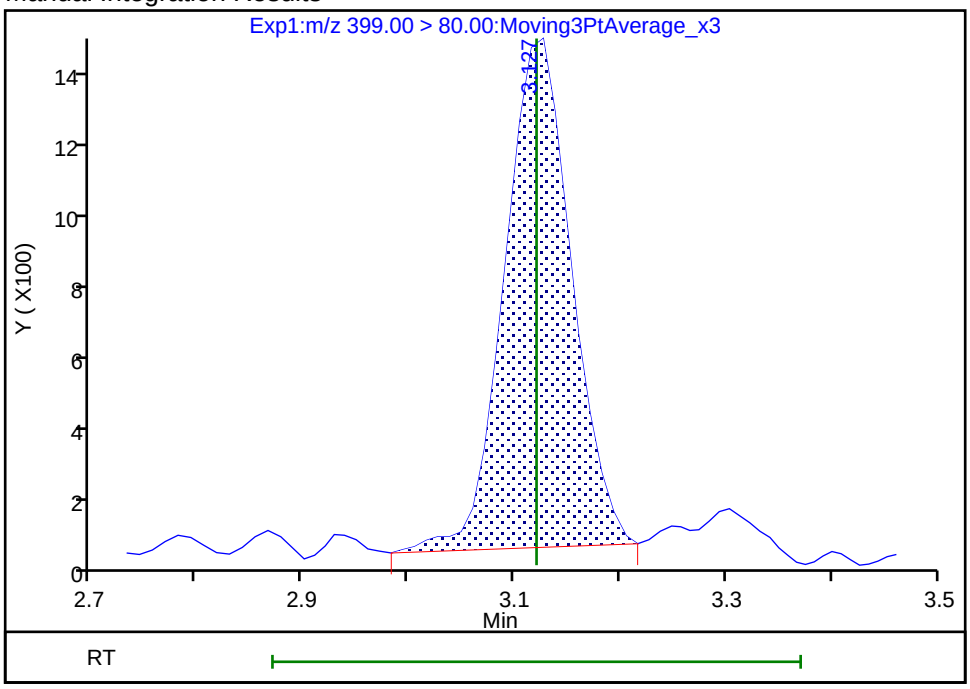
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.13
Area: 6074
Amount: 0.004601
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:32:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

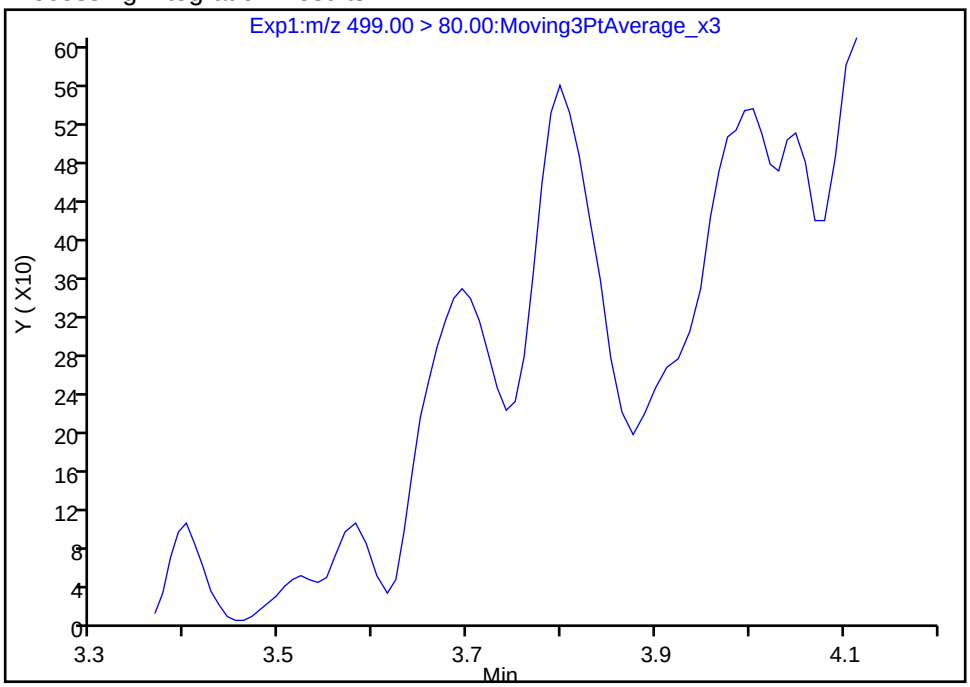
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

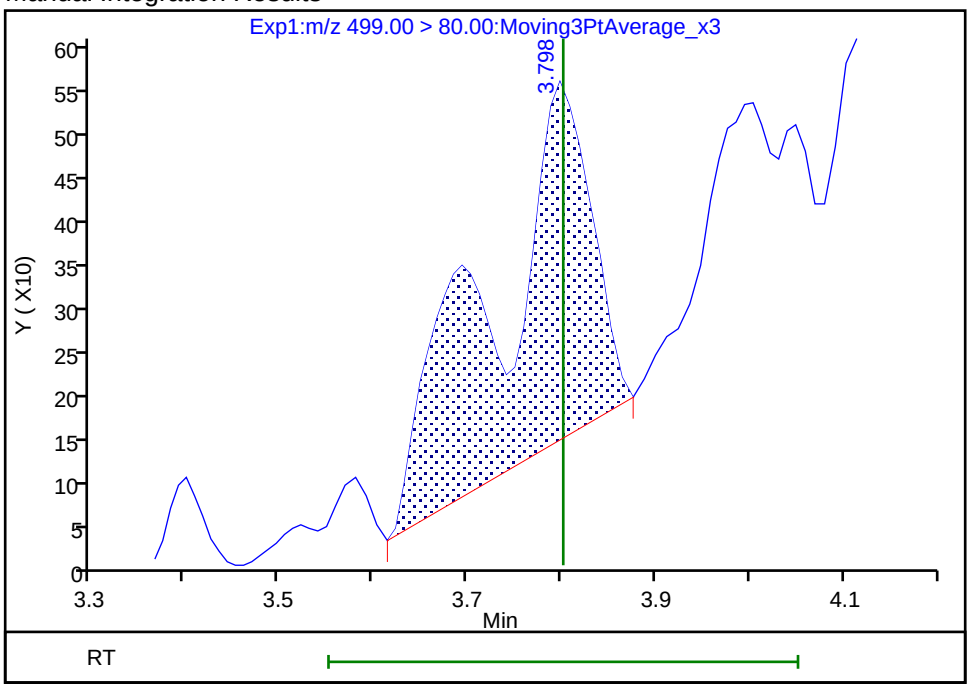
Not Detected
Expected RT: 3.80

Processing Integration Results



Manual Integration Results

RT: 3.80
Area: 3046
Amount: 0.003515
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:33:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

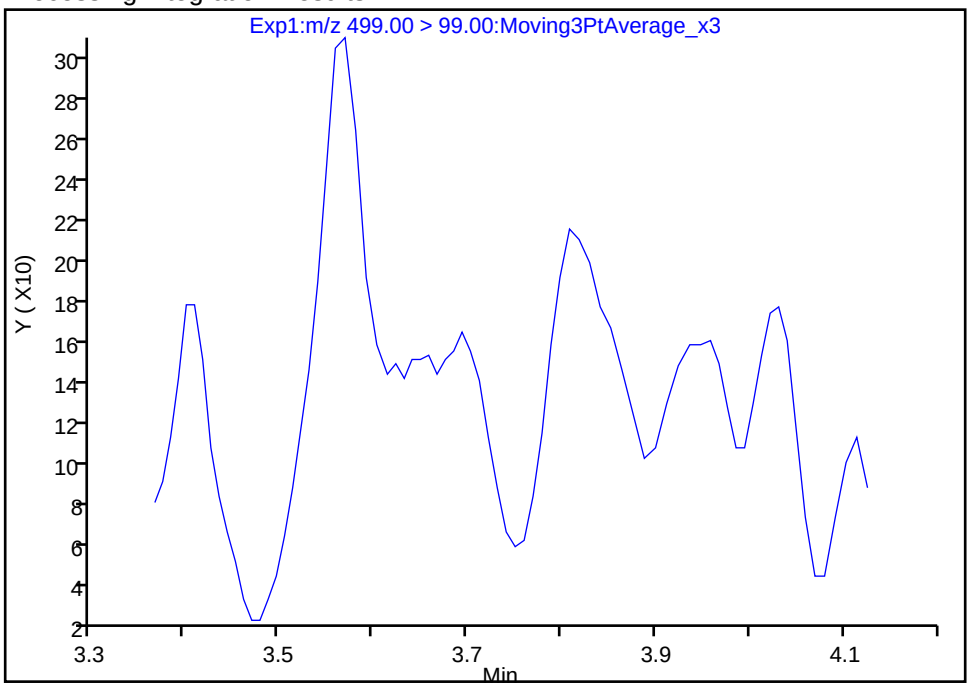
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

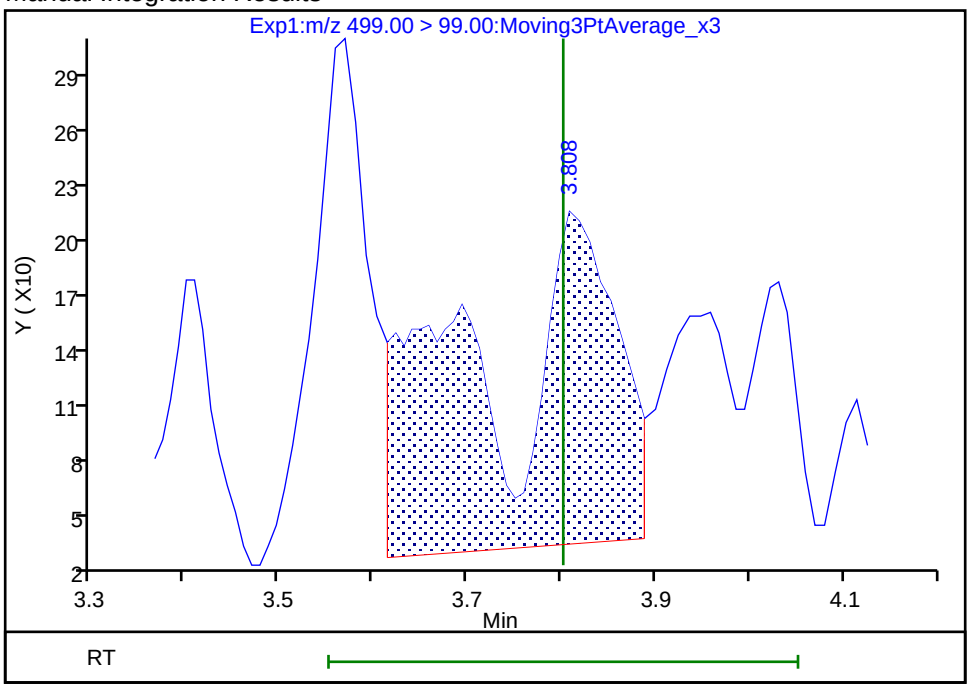
Not Detected
Expected RT: 3.80

Processing Integration Results



Manual Integration Results

RT: 3.81
Area: 1747
Amount: 0.003515
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:33:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

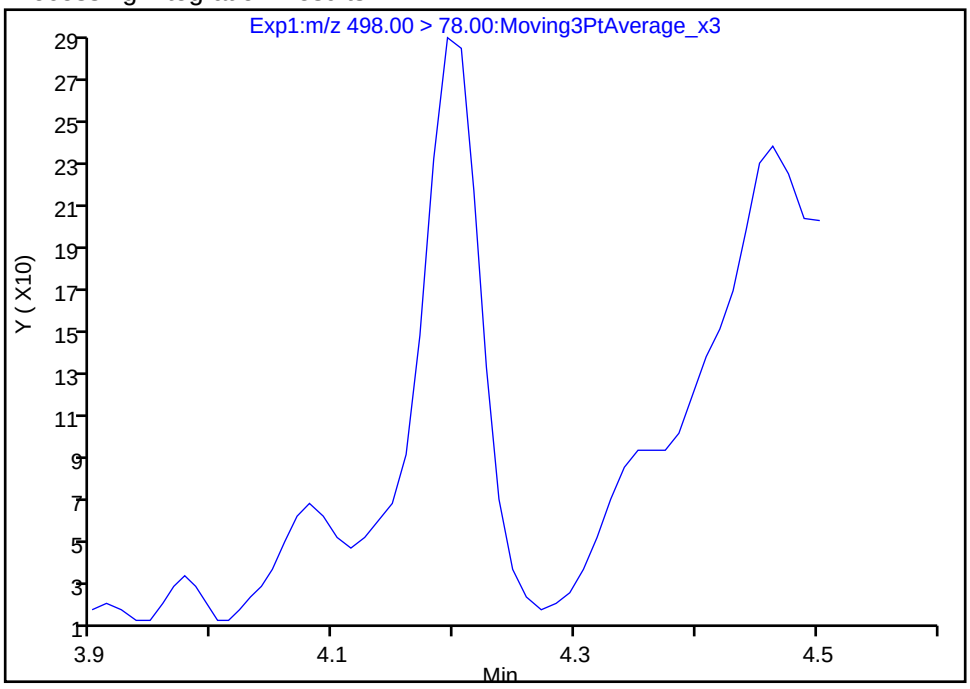
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

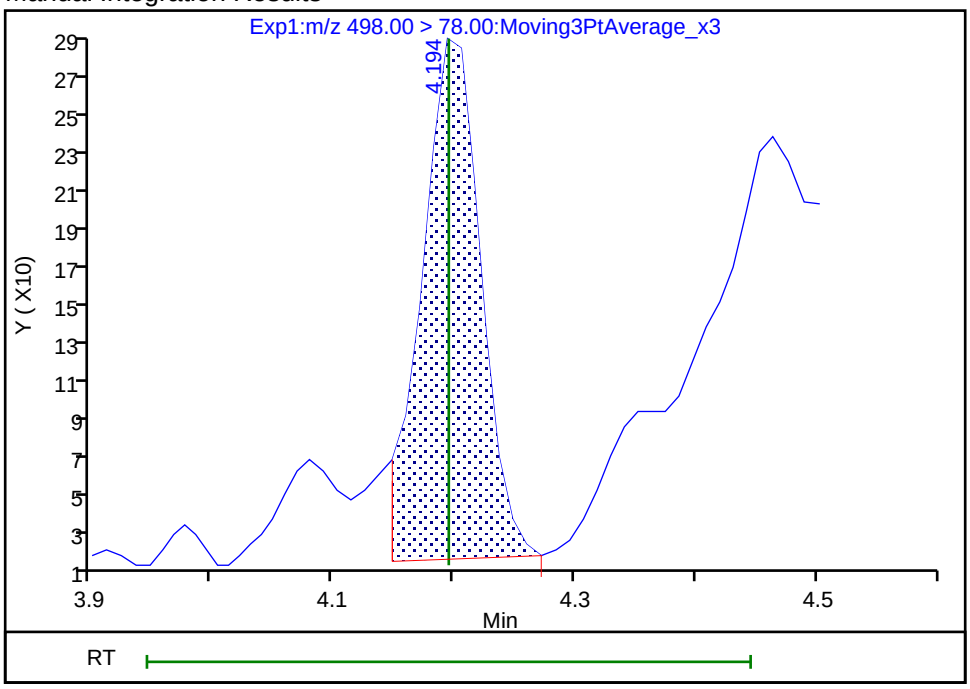
Not Detected
Expected RT: 4.20

Processing Integration Results



Manual Integration Results

RT: 4.19
Area: 914
Amount: 0.000729
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:34:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

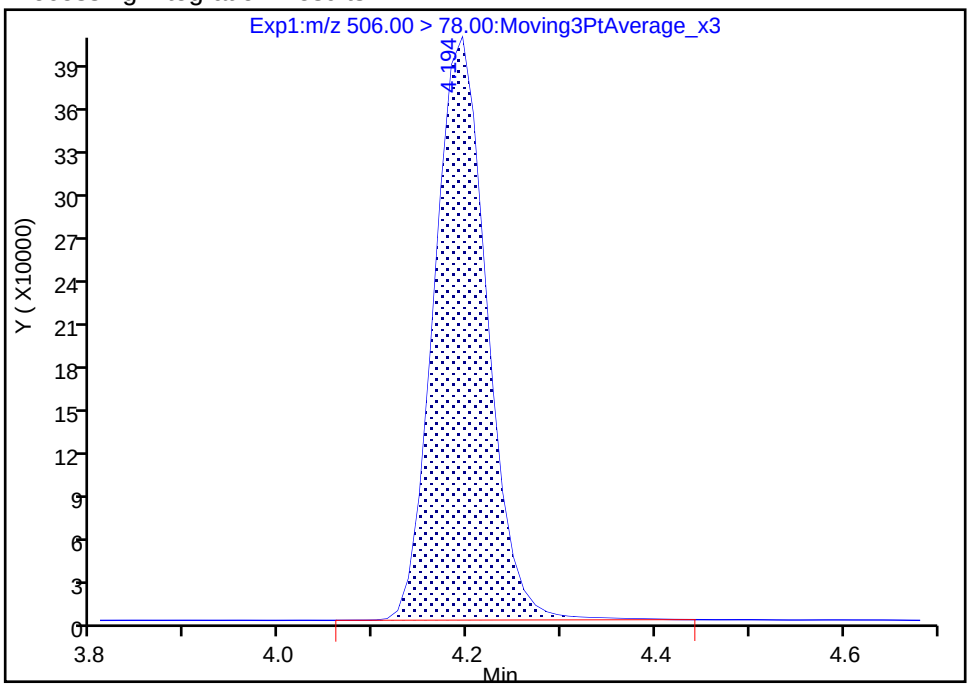
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

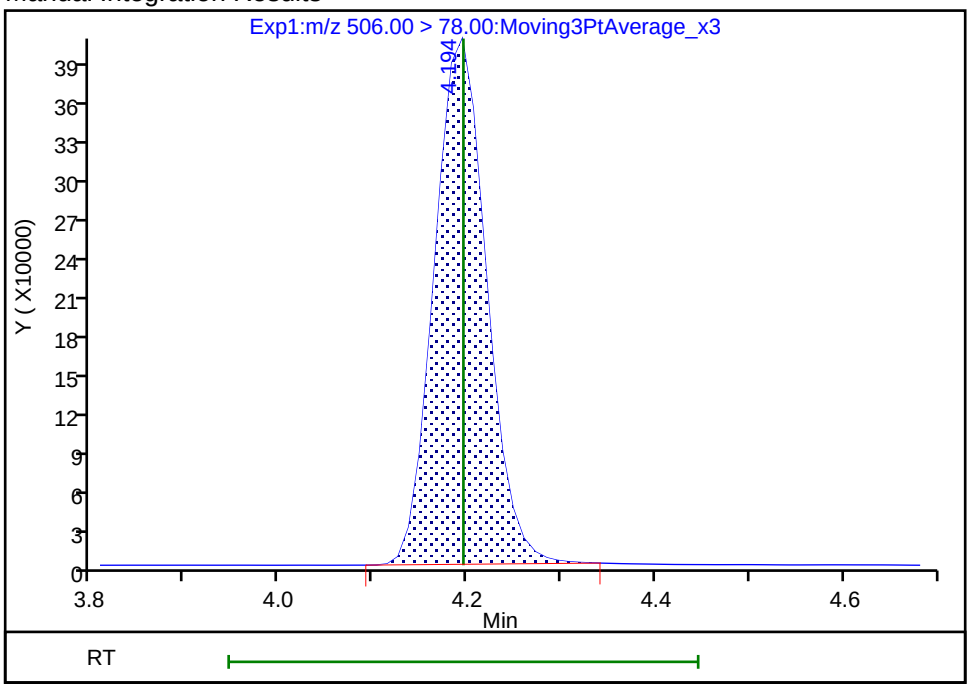
Processing Integration Results

RT: 4.19
Area: 1557795
Amount: 0.976627
Amount Units: ng/ml



Manual Integration Results

RT: 4.19
Area: 1545077
Amount: 0.968653
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:42:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

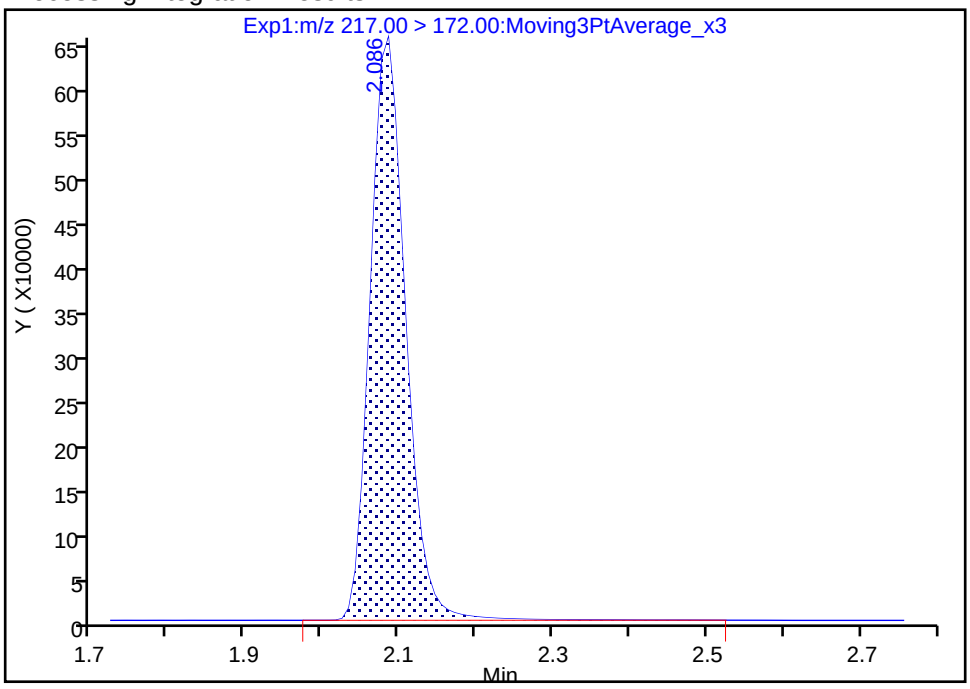
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

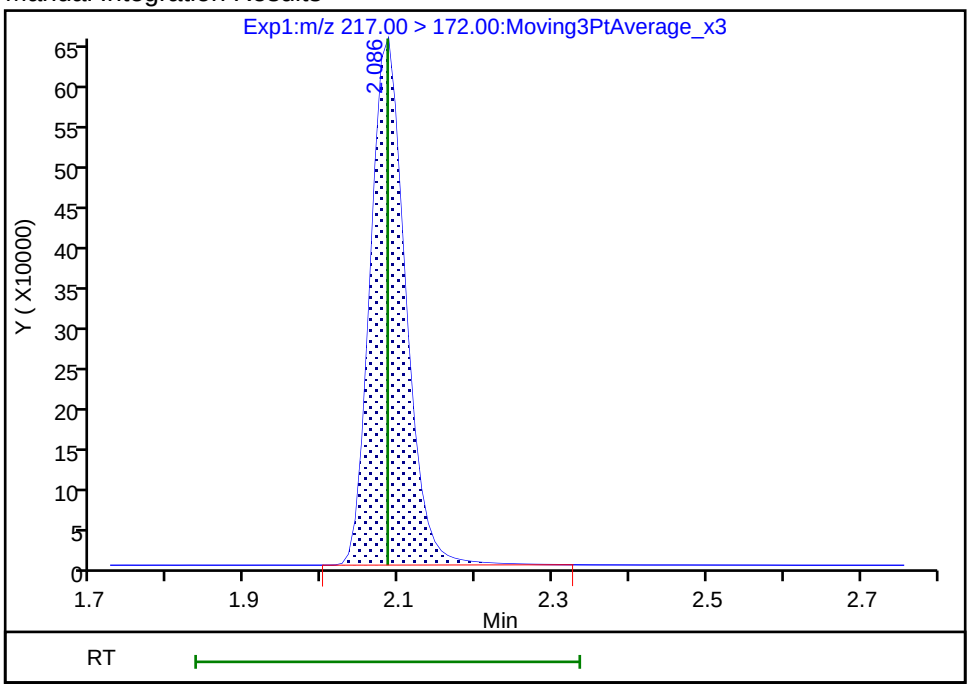
Processing Integration Results

RT: 2.09
Area: 2085147
Amount: 1.334530
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 2078748
Amount: 1.330435
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:41:58

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

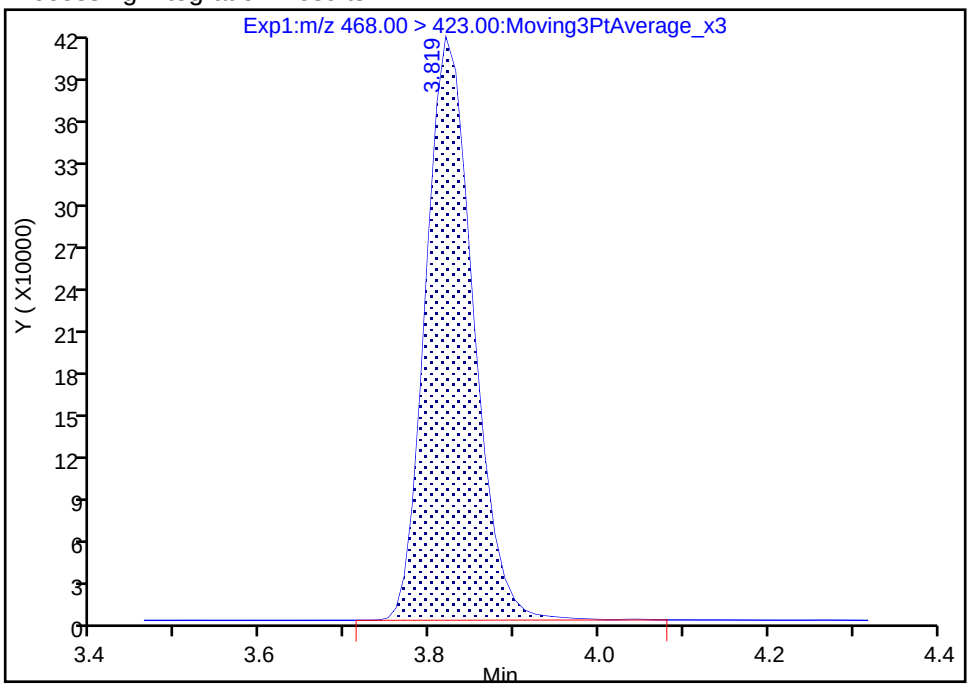
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

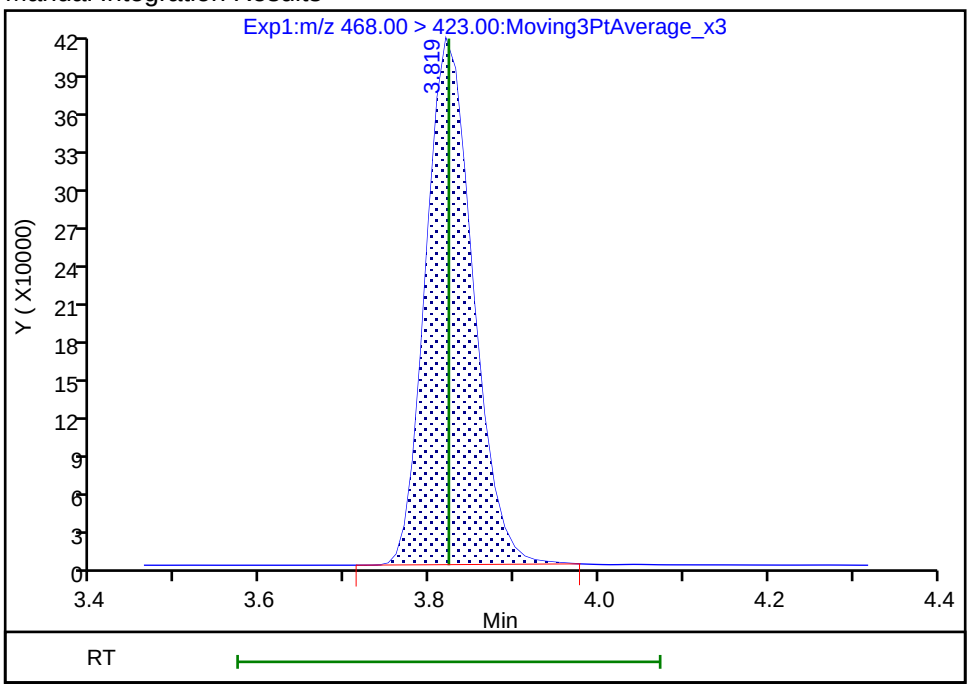
Processing Integration Results

RT: 3.82
Area: 1616910
Amount: 1.073880
Amount Units: ng/ml



Manual Integration Results

RT: 3.82
Area: 1608276
Amount: 1.068146
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:42:20

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

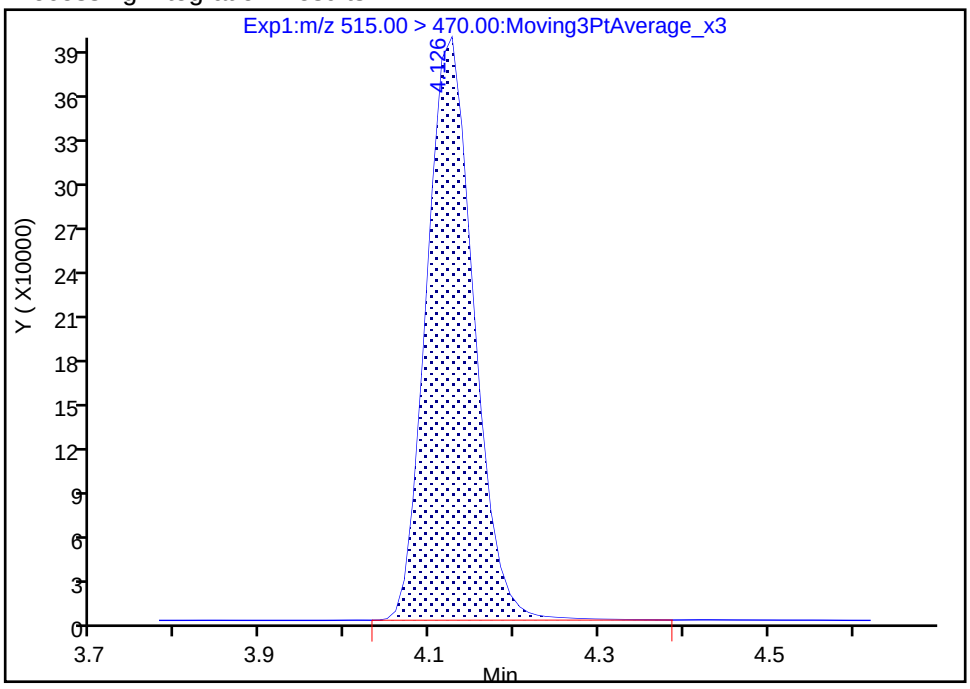
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

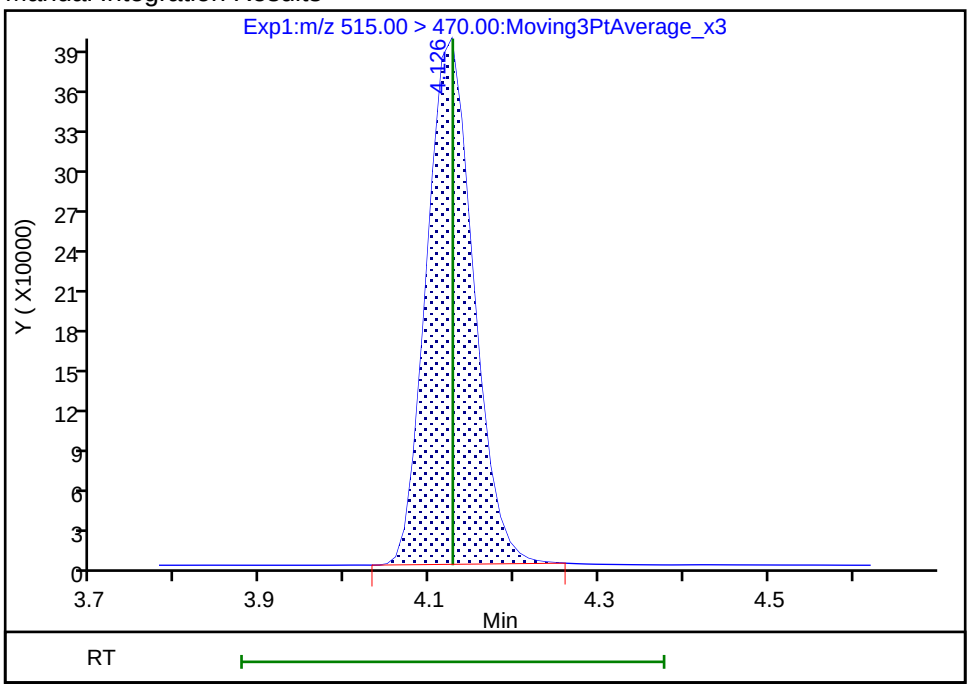
Processing Integration Results

RT: 4.13
Area: 1507331
Amount: 1.039667
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 1494756
Amount: 1.030993
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:42:32

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

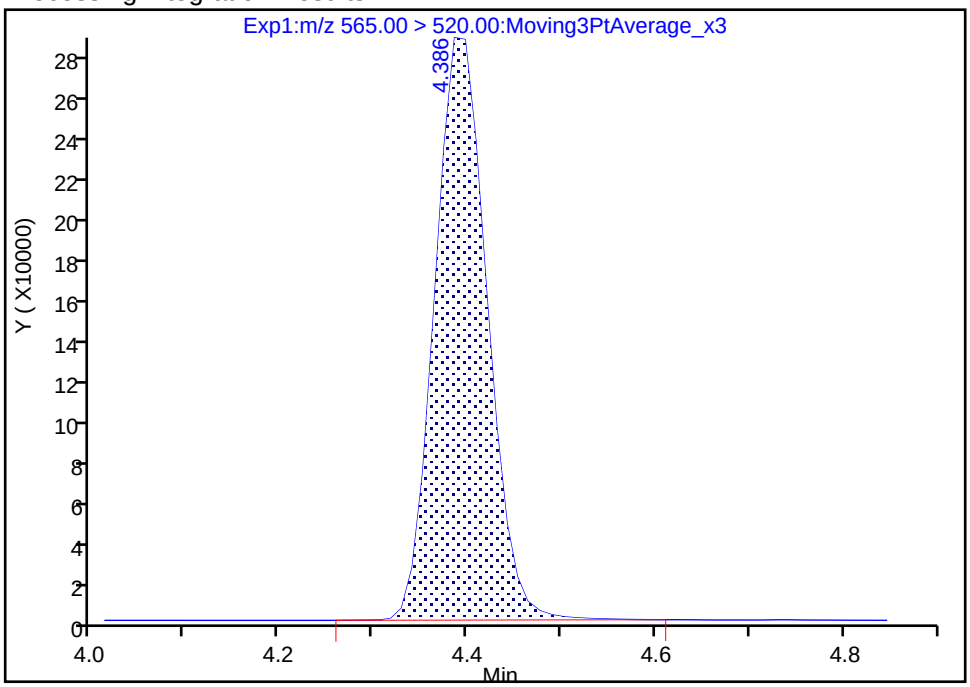
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

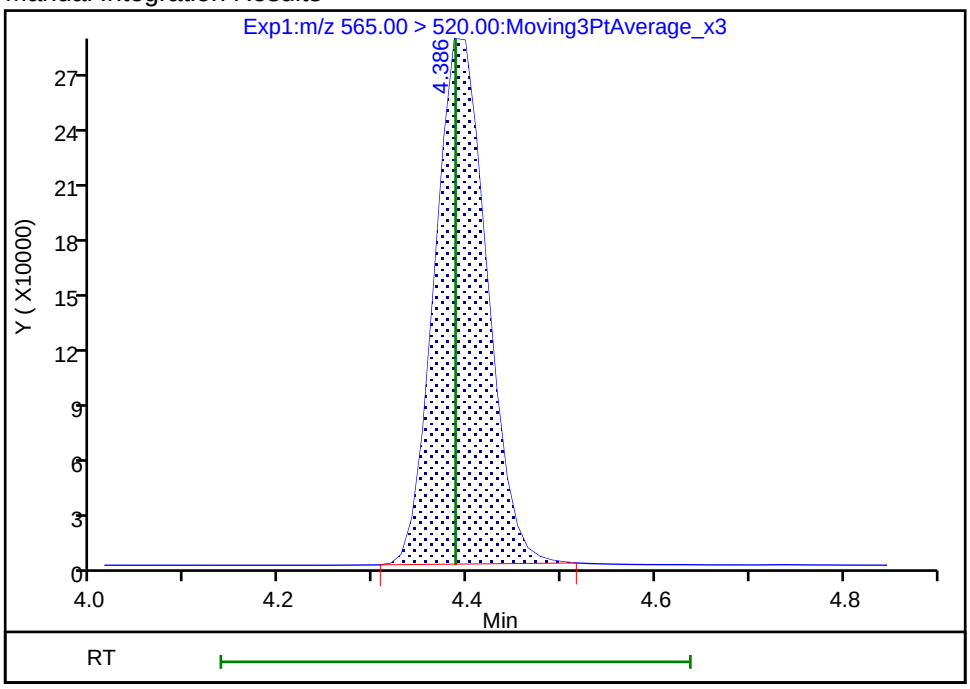
Processing Integration Results

RT: 4.39
Area: 1119885
Amount: 0.962060
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 1110722
Amount: 0.954188
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:42:56

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

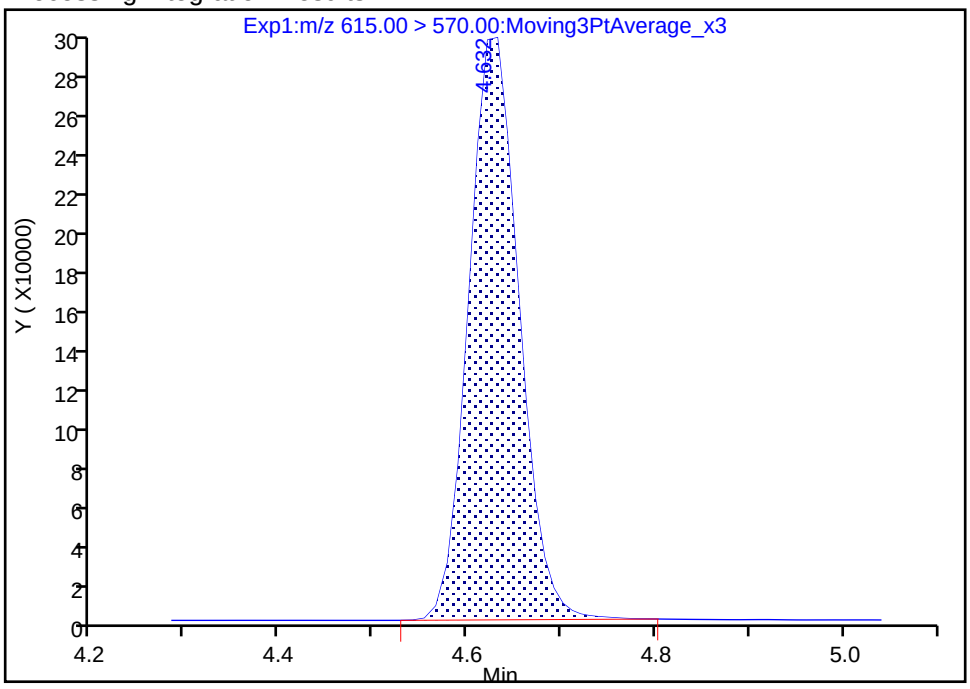
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 36 13C2 PFDoA, CAS: STL00998

Signal: 1

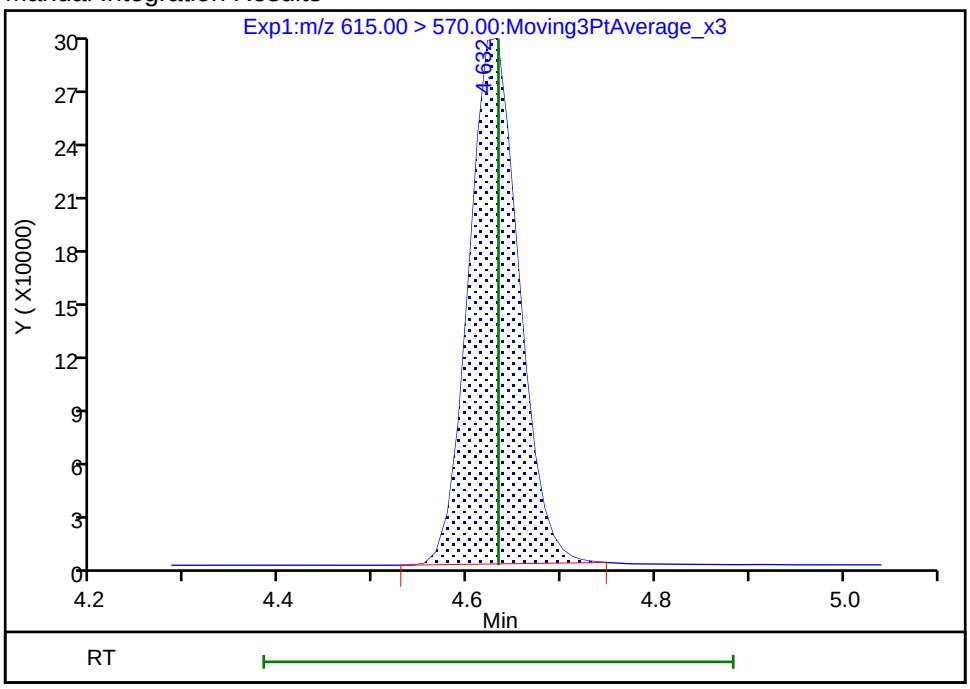
Processing Integration Results

RT: 4.63
Area: 1101872
Amount: 0.886351
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 1094063
Amount: 0.880069
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:43:07

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

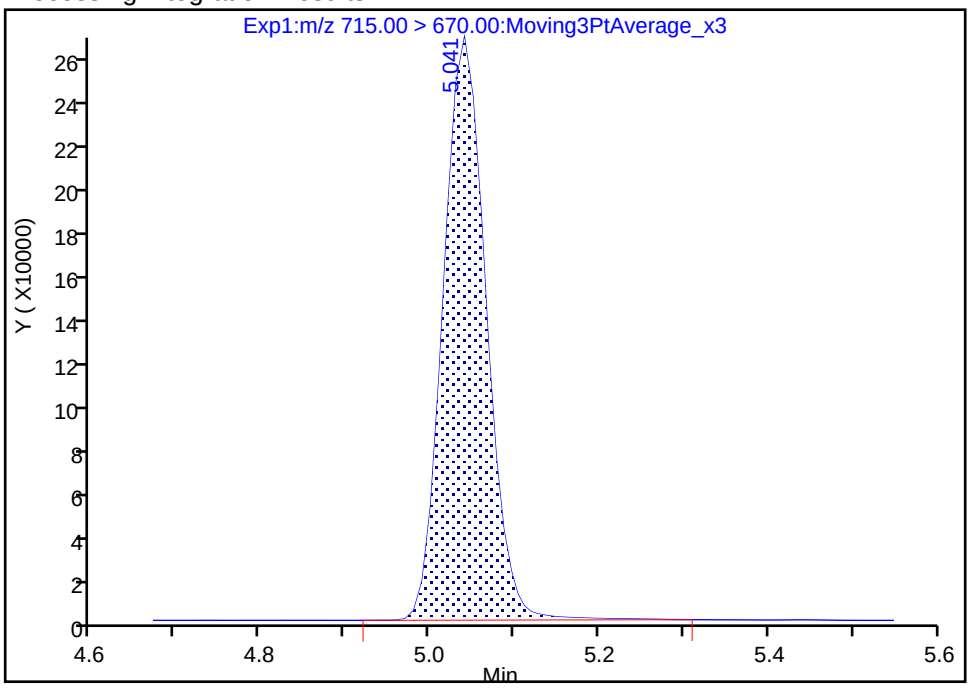
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

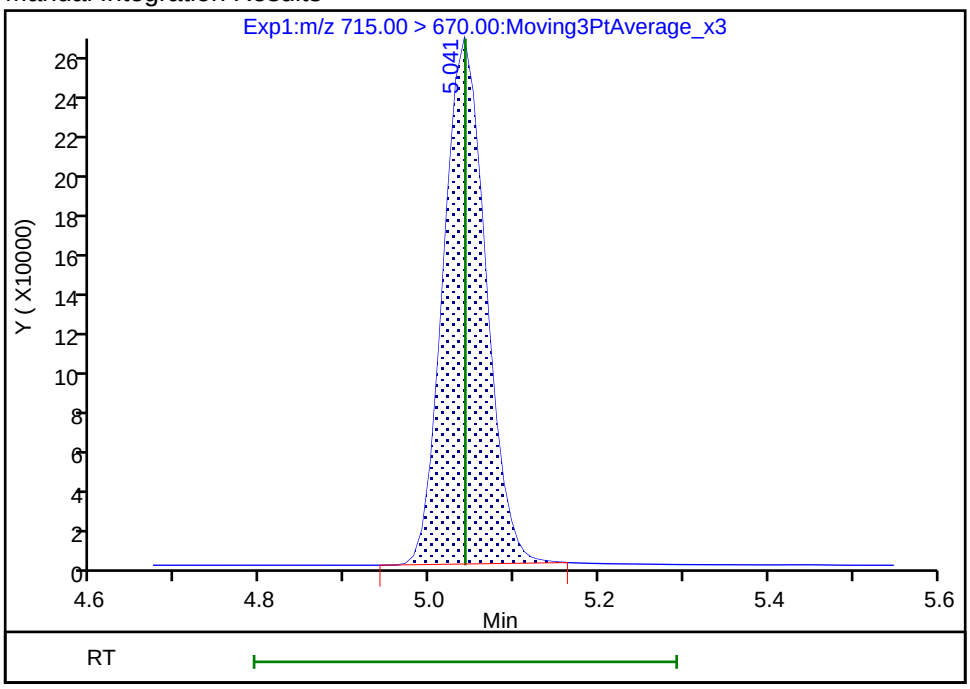
Processing Integration Results

RT: 5.04
Area: 941837
Amount: 0.926980
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 930330
Amount: 0.915655
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:43:16

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

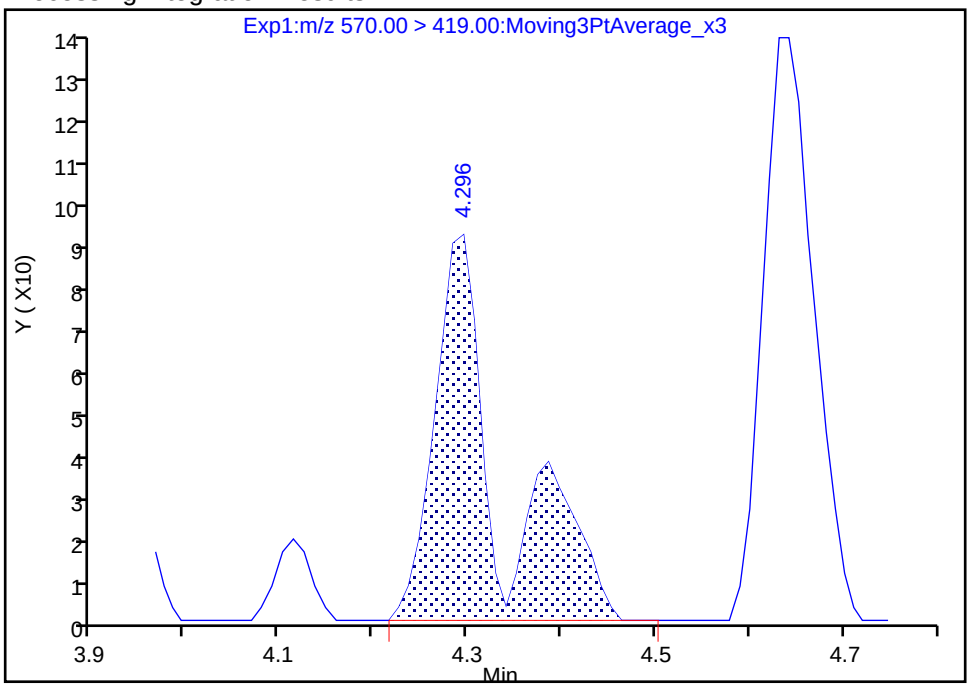
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

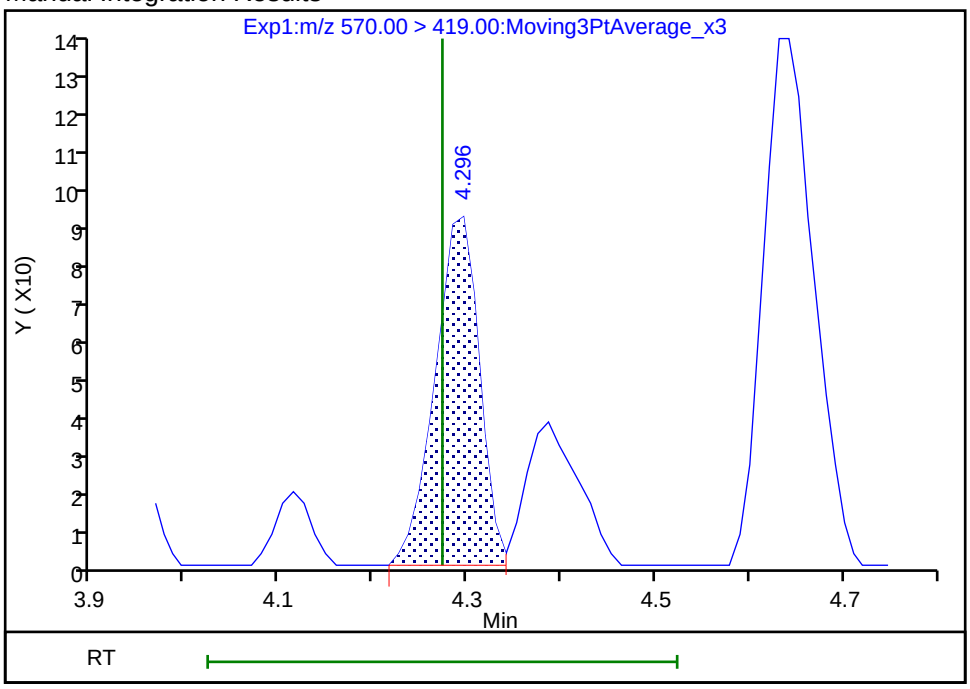
Processing Integration Results

RT: 4.30
Area: 437
Amount: 0.002541
Amount Units: ng/ml



Manual Integration Results

RT: 4.30
Area: 294
Amount: 0.001717
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:34:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

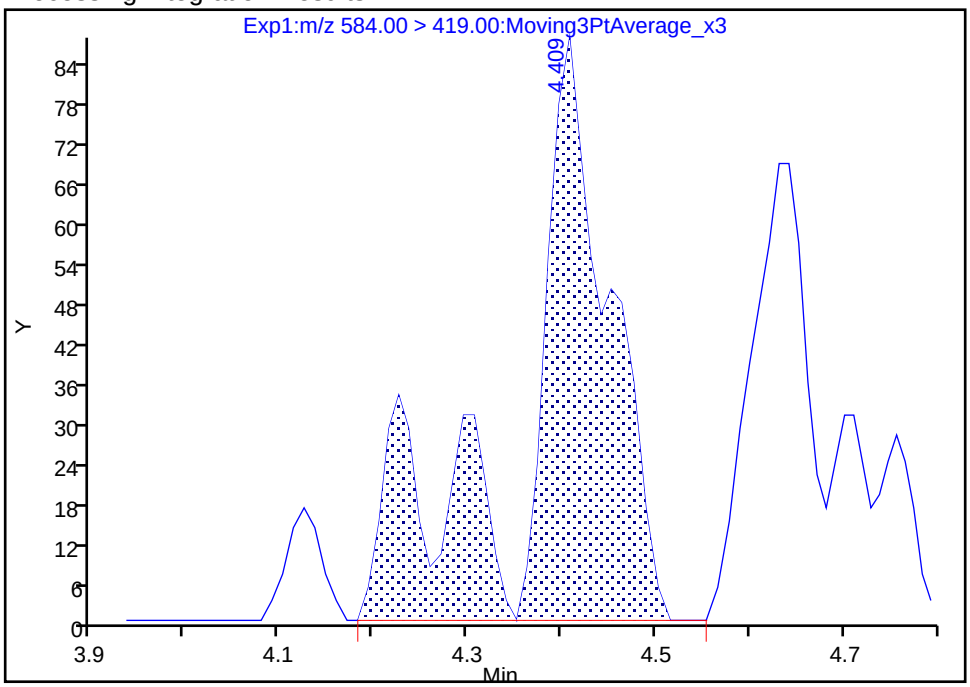
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

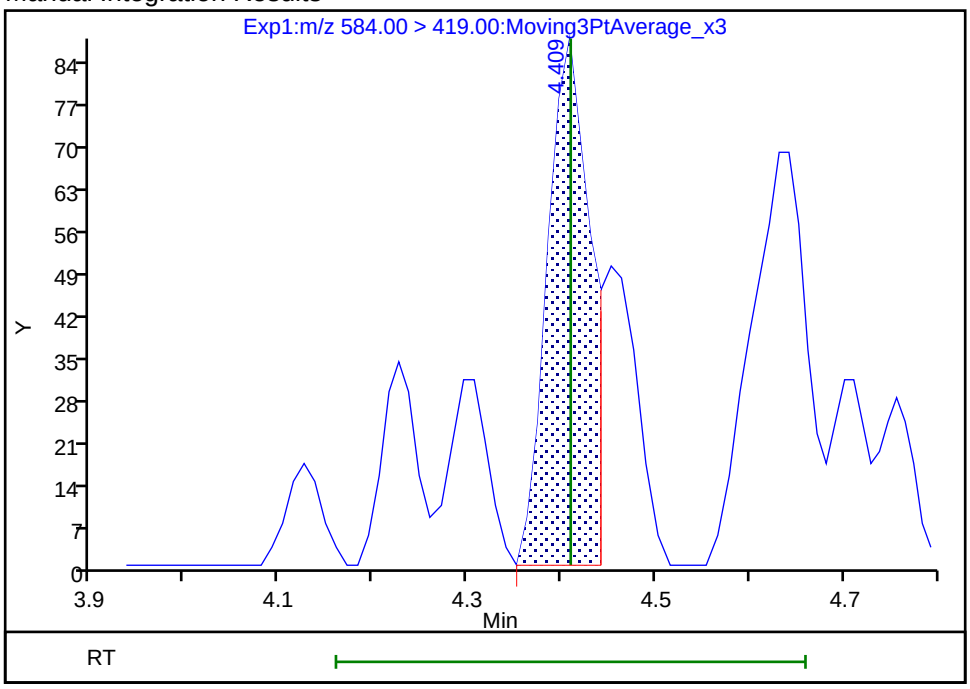
Processing Integration Results

RT: 4.41
Area: 572
Amount: 0.003200
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 270
Amount: 0.001511
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:35:07

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

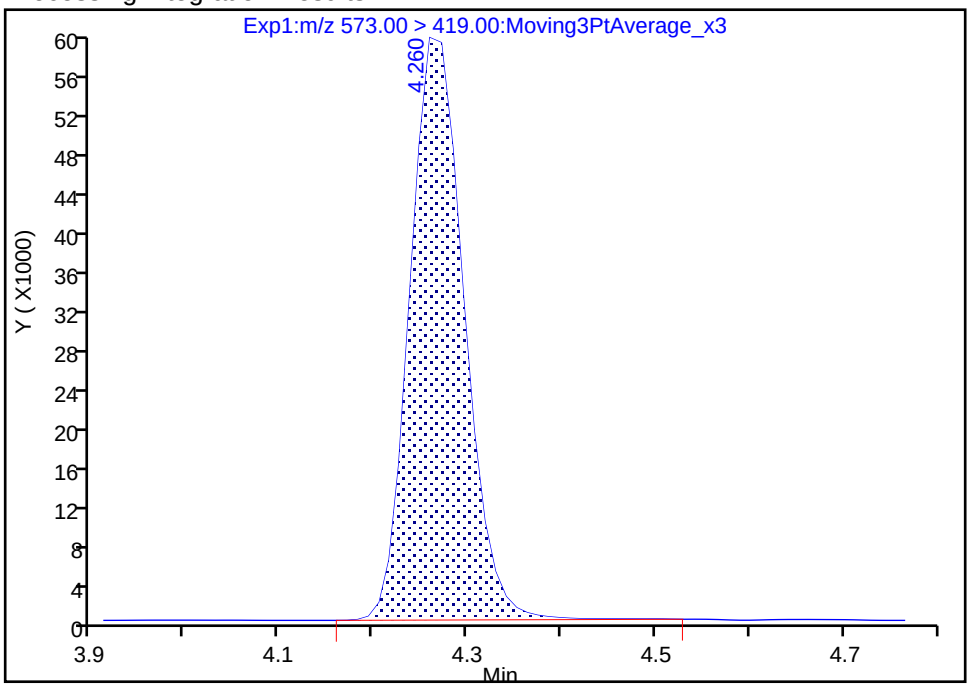
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

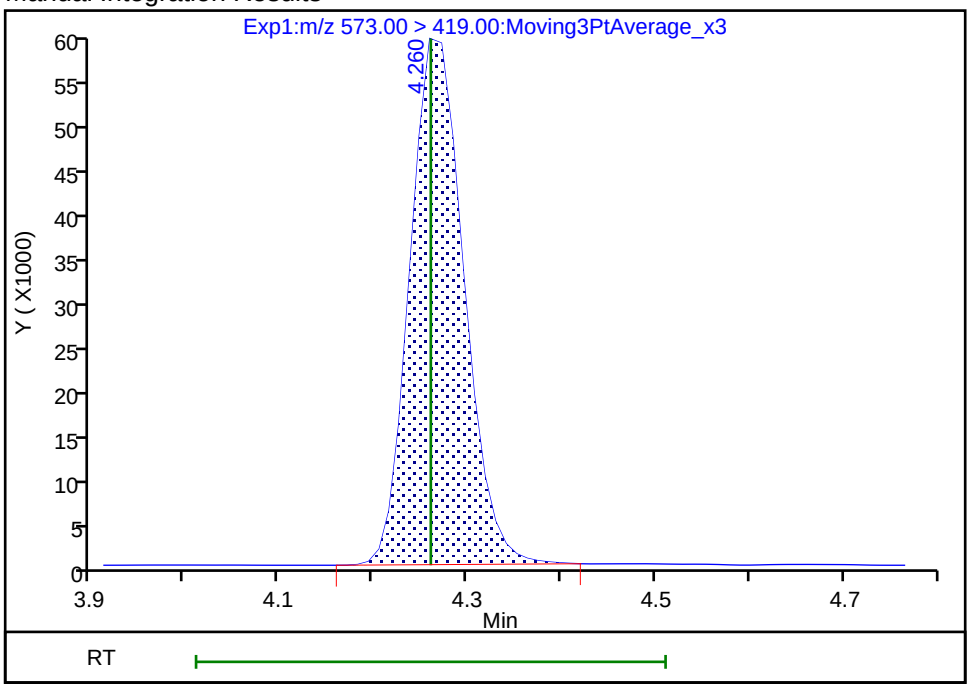
Processing Integration Results

RT: 4.26
Area: 236420
Amount: 1.228528
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 235354
Amount: 1.222989
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:42:50

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

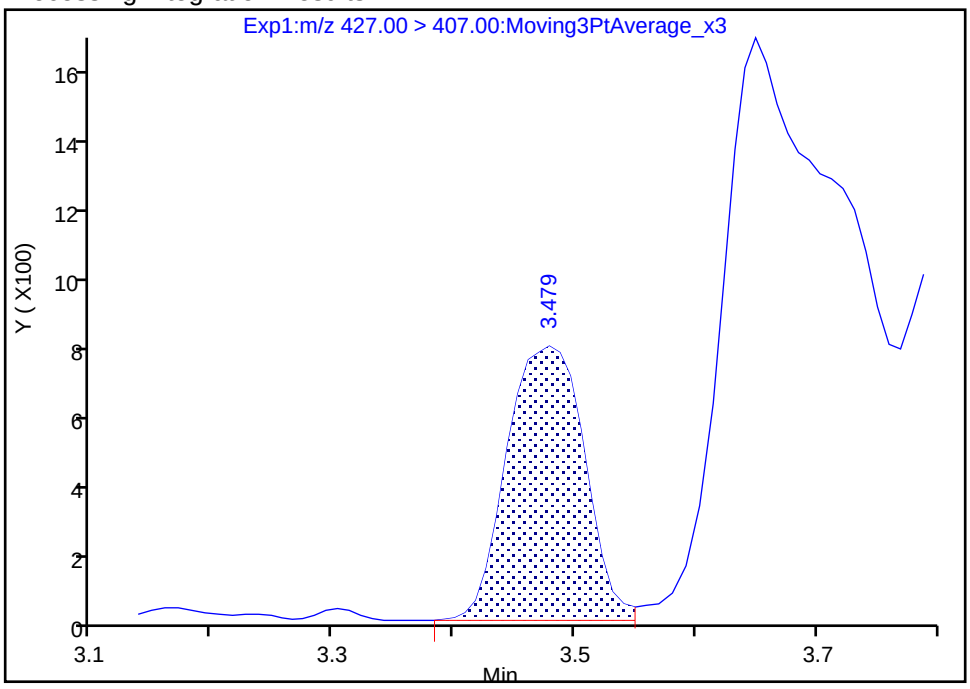
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

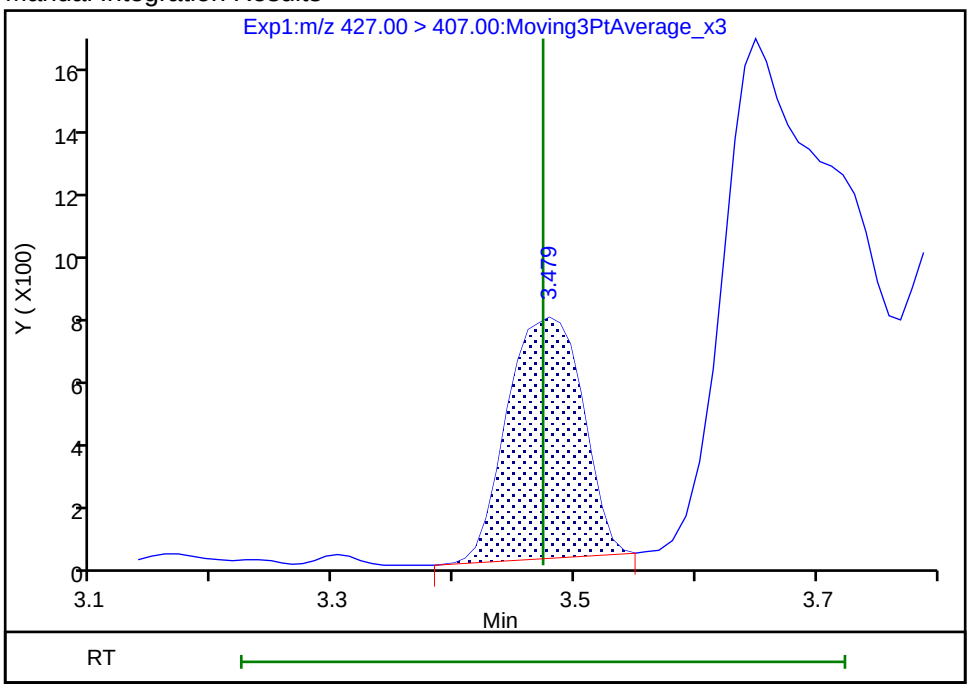
Processing Integration Results

RT: 3.48
Area: 3400
Amount: -0.015934
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 3216
Amount: -0.016558
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:33:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

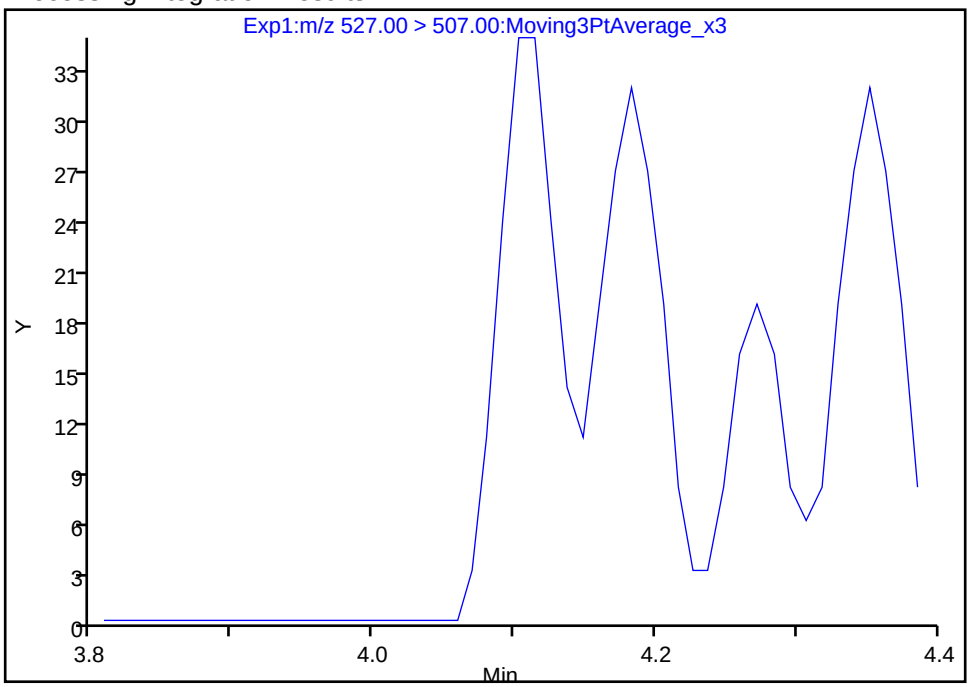
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A15.d				
Injection Date:	13-Jun-2022 19:03:27	Instrument ID:	LC812		
Lims ID:	480-198722-C-2-A	Lab Sample ID:	200-198722-2		
Client ID:	CD-1RA				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

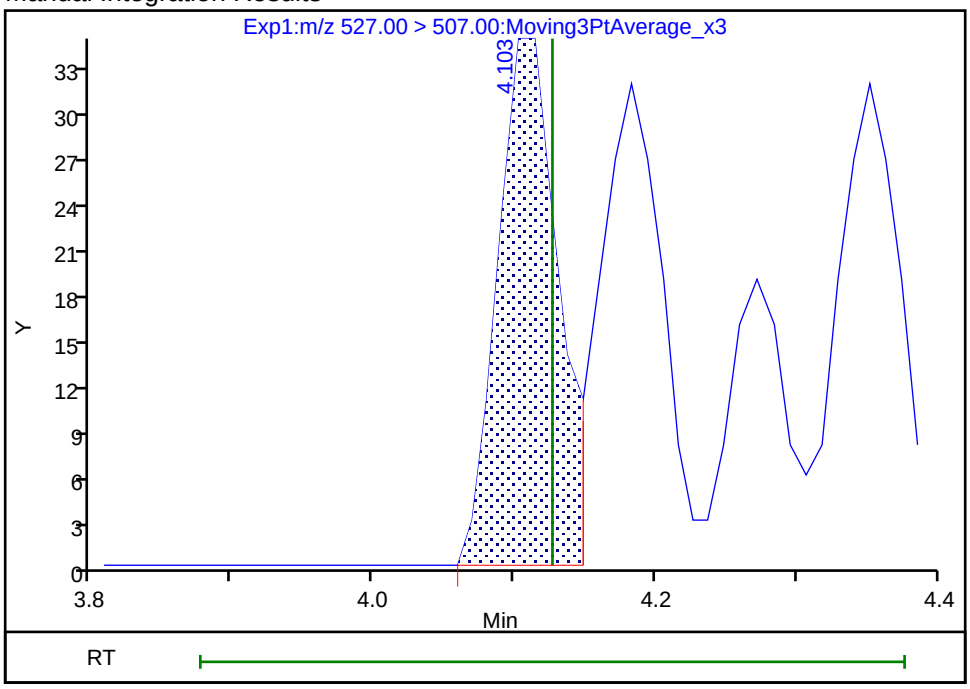
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.10
Area: 103
Amount: 0.000408
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:34:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-1B Lab Sample ID: 480-198722-3

Matrix: Water Lab File ID: PA220613A16.d

Analysis Method: 537 (modified) Date Collected: 06/06/2022 14:40

Extraction Method: 3535 Date Extracted: 06/13/2022 08:55

Sample wt/vol: 275.5(mL) Date Analyzed: 06/13/2022 19:11

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 180744 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
375-22-4	Perfluorobutanoic acid (PFBA)	ND		4.5	
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.8	
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.8	
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.8	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.8	
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.8	
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.8	
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.8	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.8	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.8	
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.8	
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5	
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5	
27619-97-2	6:2 FTS	ND		4.5	
39108-34-4	8:2 FTS	ND		1.8	

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-1B Lab Sample ID: 480-198722-3

Matrix: Water Lab File ID: PA220613A16.d

Analysis Method: 537 (modified) Date Collected: 06/06/2022 14:40

Extraction Method: 3535 Date Extracted: 06/13/2022 08:55

Sample wt/vol: 275.5(mL) Date Analyzed: 06/13/2022 19:11

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 180744 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	83		50-150
STL00992	13C4 PFBA	104		50-150
STL01893	13C5 PFPeA	104		50-150
STL00993	13C2 PFHxA	100		50-150
STL01892	13C4 PFHpA	106		50-150
STL00990	13C4 PFOA	97		50-150
STL00995	13C5 PFNA	88		50-150
STL00996	13C2 PFDA	88		50-150
STL00997	13C2 PFUnA	82		50-150
STL00998	13C2 PFDoA	77		50-150
STL02116	13C2 PFTeDA	78		50-150
STL02337	13C3 PFBS	91		50-150
STL00994	18O2 PFHxS	89		50-150
STL00991	13C4 PFOS	81		50-150
STL02118	d3-NMeFOSAA	108		50-150
STL02117	d5-NEtFOSAA	109		50-150
STL02279	M2-6:2 FTS	90		50-150
STL02280	M2-8:2 FTS	89		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d
Lims ID: 480-198722-C-3-A
Client ID: MW-1B
Sample Type: Client
Inject. Date: 13-Jun-2022 19:11:37 ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-198722-C-3-A
Misc. Info.: 200-0051257-016 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 14-Jun-2022 14:34:58 Calib Date: 05-May-2022 15:54:29
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1636

First Level Reviewer: khanphomeea Date: 14-Jun-2022 13:44:23
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	2.093	2.085	0.008	0.601	2022683	1.30		104	6314	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.093	2.093	0.0	1.000	10209	0.006685			1.3	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.400	0.0	0.689	1545772	1.30		104	3358	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.413	2.400	0.013	1.006	5437	0.004314			0.3	M
D 47 13C3 PFBS										
301.90 > 80.00	2.413	2.427	-0.014	0.693	1838849	1.06		91.5	300884	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.426	2.427	-0.001	1.006	6590	0.003822	Target=2.15		5.1	M
298.90 > 99.00	2.426	2.427	-0.001	1.006	3102		2.12(1.07-3.22)		1.7	
D 7 13C2 PFHxA										M
315.00 > 270.00	2.762	2.762	0.0	0.793	1519484	1.25		99.7	2641	M
6 Perfluorohexanoic acid										RM
313.00 > 269.00	2.749	2.762	-0.013	0.996	2456	0.001872	Target=12.59		0.5	RM
313.00 > 119.00	2.749	2.762	-0.013	0.996	613		4.01(6.29-18.88)		0.8	M
D 11 18O2 PFHxS										M
403.00 > 84.00	3.121	3.121	0.0	0.896	1424149	1.05		89.0	1553	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.121	3.121	0.0	1.000	5435	0.004083	Target=3.53		11.7	M
399.00 > 99.00	3.121	3.121	0.0	1.000	2569		2.12(1.76-5.29)		3.2	M
D 9 13C4 PFHpA										M
367.00 > 322.00	3.121	3.132	-0.011	0.896	1745995	1.33		106	2824	M
D 12 M2-6:2 FTS										M
429.00 > 81.00	3.472	3.474	-0.002	0.998	235821	1.07		90.0	497	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.472	3.474	-0.002	1.000	2890	-0.0180			2.1	
* 62 13C2 PFOA										
415.00 > 370.00	3.481	3.482	-0.001		1837488	1.25			4248	
D 14 13C4 PFOA										M
417.00 > 372.00	3.481	3.482	-0.001	1.000	1679913	1.21		97.1	2698	M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.481	3.482	-0.001	1.000	5696	0.003784	Target=2.68		0.4	M
413.00 > 169.00	3.472	3.482	-0.010	0.998	1681		3.39(1.34-4.02)		4.9	M
D 18 13C4 PFOS										
503.00 > 80.00	3.801	3.802	-0.001	1.092	1026090	0.9655		80.8	2272	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.782	3.802	-0.020	0.995	1718	0.001874	Target=4.47		1.8	RM
499.00 > 99.00	3.801	3.802	-0.001	1.000	829		2.07(2.24-6.71)		2.1	M
D 19 13C5 PFNA										M
468.00 > 423.00	3.811	3.822	-0.011	1.095	1663095	1.11		88.5	1721	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.801	3.822	-0.021	0.997	2216	0.001722	Target=7.74		0.6	M
463.00 > 169.00	3.821	3.822	-0.001	1.003	544		4.07(3.87-11.61)		4.3	M
D 23 13C2 PFDA										M
515.00 > 470.00	4.127	4.127	0.0	1.185	1588766	1.10		87.8	2839	M
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.127	4.127	0.0	1.000	8474	0.006258	Target=9.31		4.0	M
513.00 > 169.00	4.115	4.127	-0.012	0.997	1025		8.27(4.65-13.96)		6.8	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.127	4.127	0.0	1.000	302	0.001153			3.9	M
D 26 M2-8:2 FTS										M
529.00 > 81.00	4.127	4.127	0.0	1.185	281829	1.06		88.8	1003	M
D 21 13C8 FOSA										M
506.00 > 78.00	4.195	4.195	0.0	1.205	1650526	1.04		82.9	1360	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.195	4.195	0.0	1.000	1702	0.001270			4.5	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.261	4.261	0.0	1.224	259804	1.35		108	1487	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.207	4.273	-0.066	0.987	98	0.000518			0.4	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.387	4.387	0.0	1.000	866	0.000886	Target=9.41		0.8	M
563.00 > 169.00	4.410	4.387	0.023	1.005	81		10.69(4.70-14.11)		1.1	M
D 30 13C2 PFUnA										M
565.00 > 520.00	4.387	4.387	0.0	1.260	1185224	1.02		81.6	1379	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.398	4.398	0.0	1.263	256567	1.37		109	1174	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.421	4.410	0.011	1.005	650	0.003376			6.5	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.633	4.622	0.011	1.002	2497	0.002531	Target=6.95		0.5	
613.00 > 169.00	4.622	4.622	0.0	1.000	633		3.94(3.48-10.43)		8.1	M
D 36 13C2 PFDoA										M
615.00 > 570.00	4.622	4.633	-0.011	1.328	1195545	0.9629		77.0	2201	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.042	5.032	0.010	1.000	401	0.003292	Target=0.96		7.9	M
713.00 > 219.00	5.032	5.032	0.0	0.998	365		1.10(0.48-1.44)		8.6	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.042	5.042	0.0	1.448	985311	0.9710		77.7	1612	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

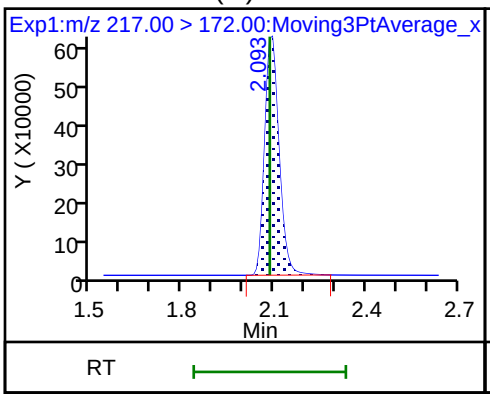
Report Date: 14-Jun-2022 14:35:44 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Burlington

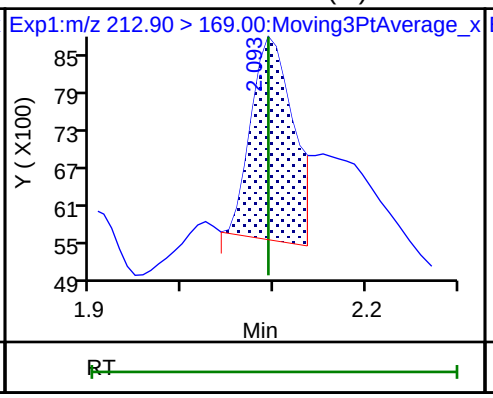
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d

Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		

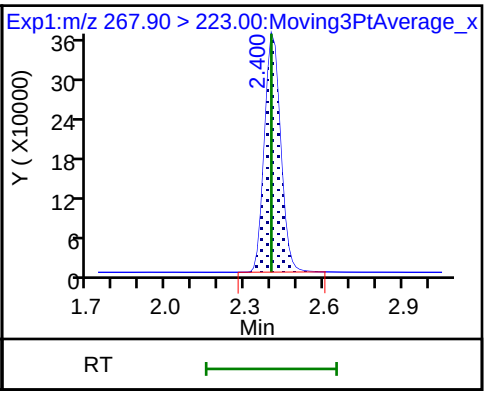
D 1 13C4 PFBA (M)



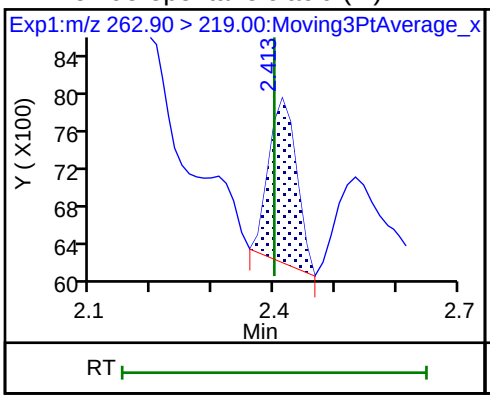
2 Perfluorobutanoic acid (M)



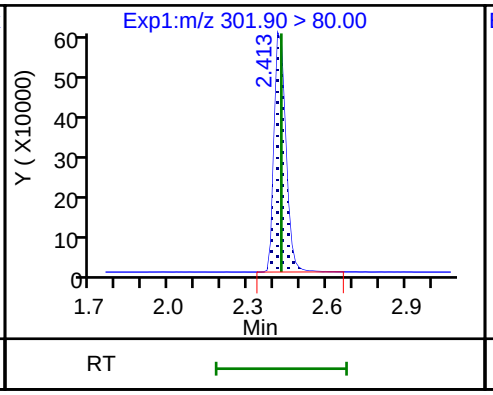
D 3 13C5 PFPeA



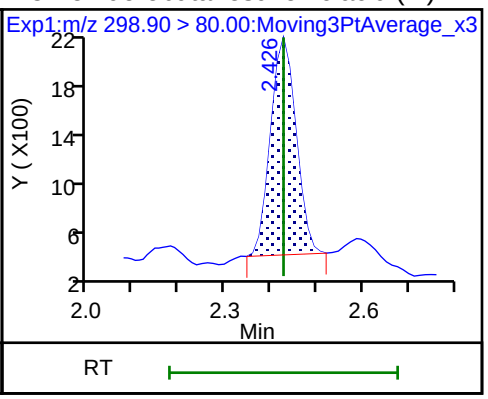
4 Perfluoropentanoic acid (M)



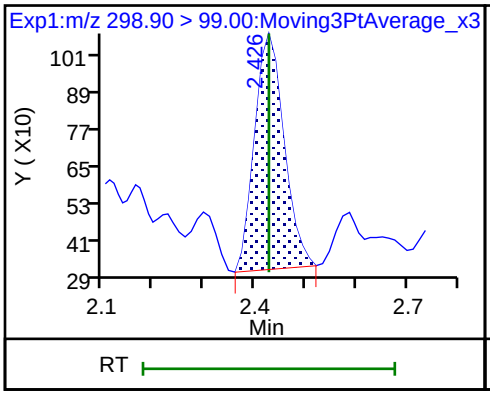
D 47 13C3 PFBS



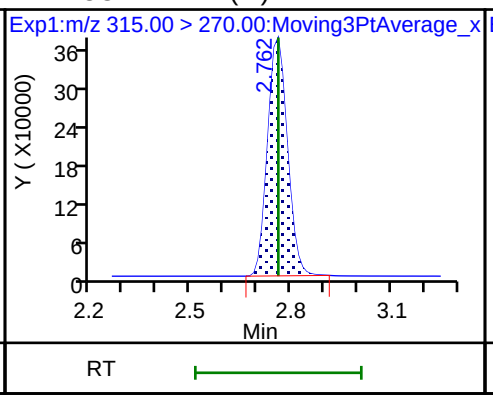
5 Perfluorobutanesulfonic acid (M)



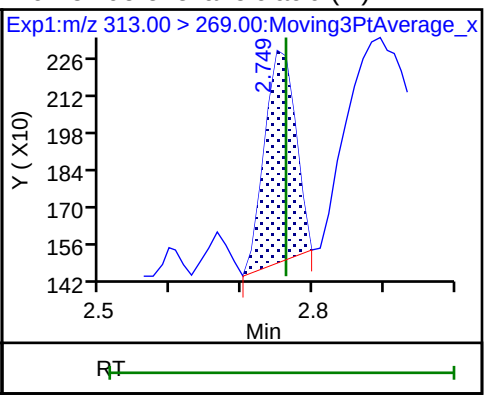
5 Perfluorobutanesulfonic acid



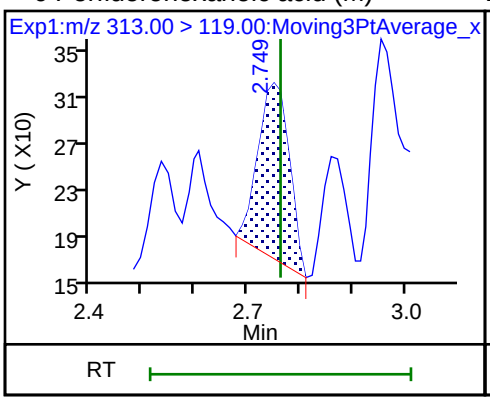
D 7 13C2 PFHxA (M)



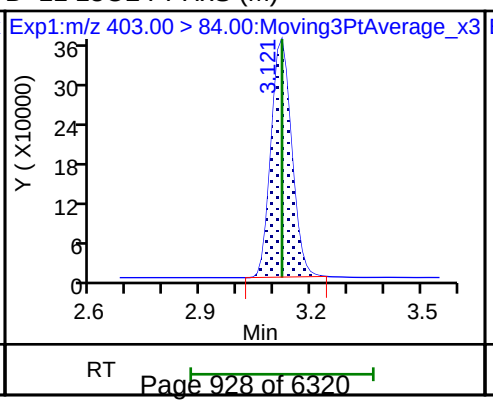
6 Perfluorohexanoic acid (M)



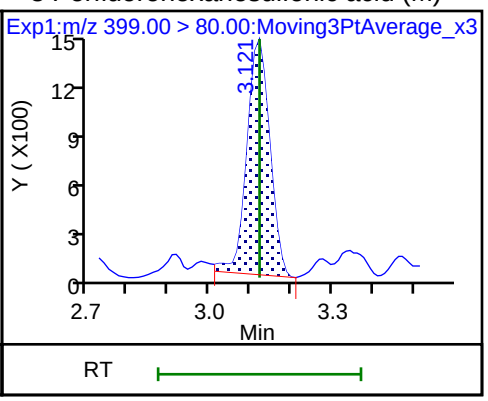
6 Perfluorohexanoic acid (M)



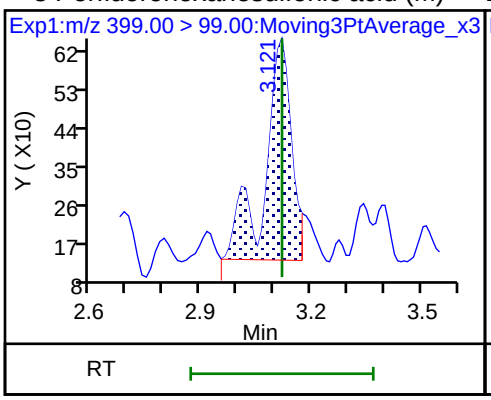
D 11 18O2 PFHxS (M)



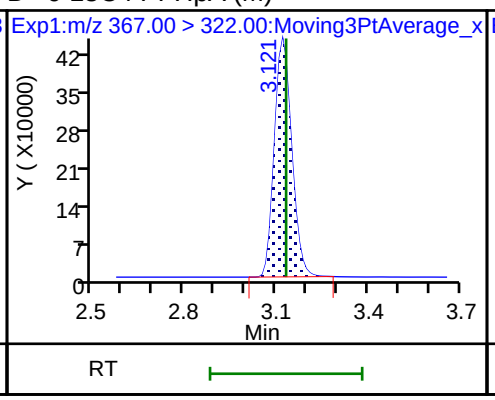
8 Perfluorohexanesulfonic acid (M)



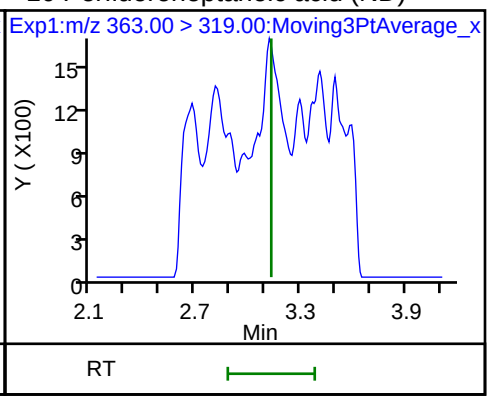
8 Perfluorohexanesulfonic acid (M)



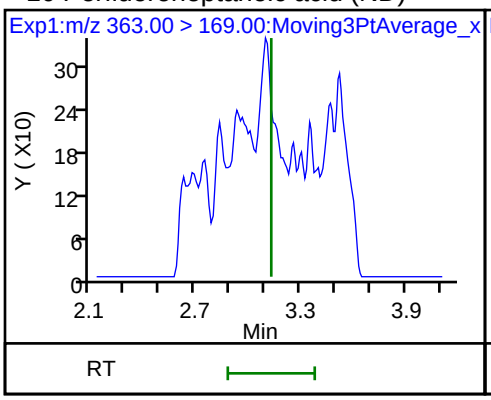
D 9 13C4 PFHpA (M)



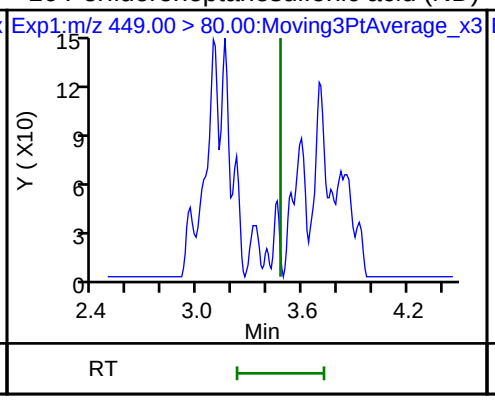
10 Perfluoroheptanoic acid (ND)



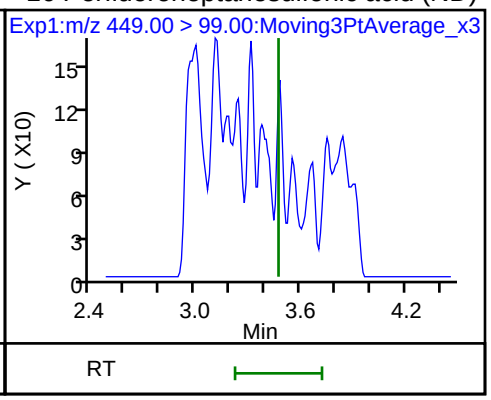
10 Perfluoroheptanoic acid (ND)



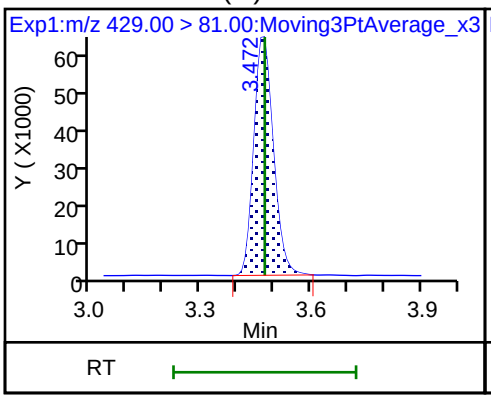
16 Perfluoroheptanesulfonic acid (ND)



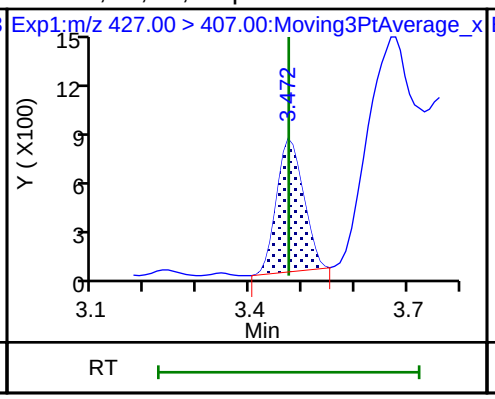
16 Perfluoroheptanesulfonic acid (ND)

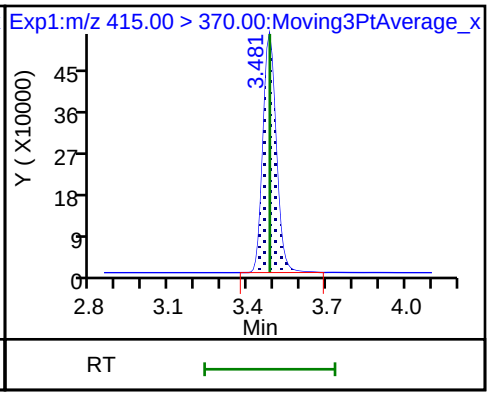


D 12 M2-6:2 FTS (M)

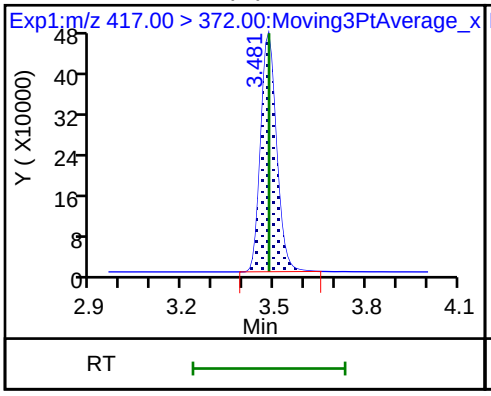


13 1H,1H,2H,2H-perfluorooctanesulfo * 62 13C2 PFOA

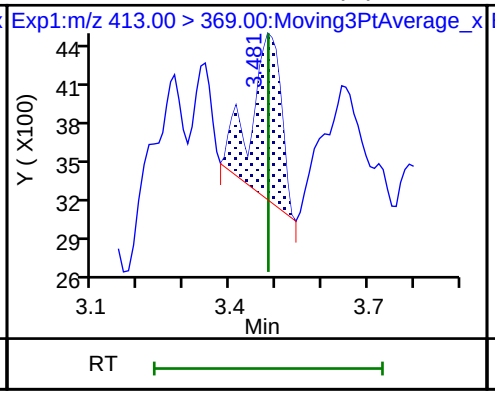




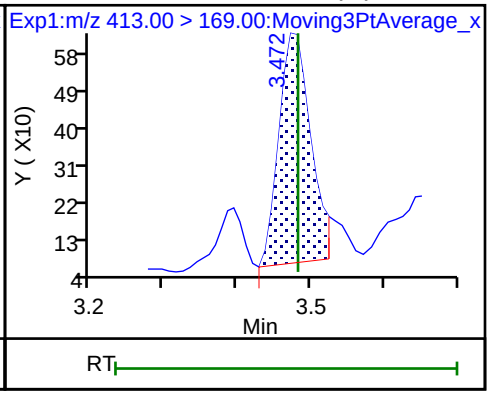
D 14 13C4 PFOA (M)



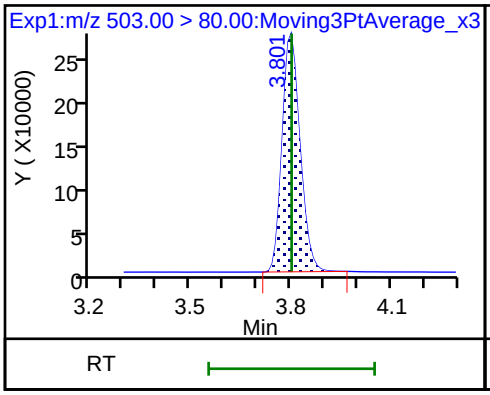
15 Perfluorooctanoic acid (M)



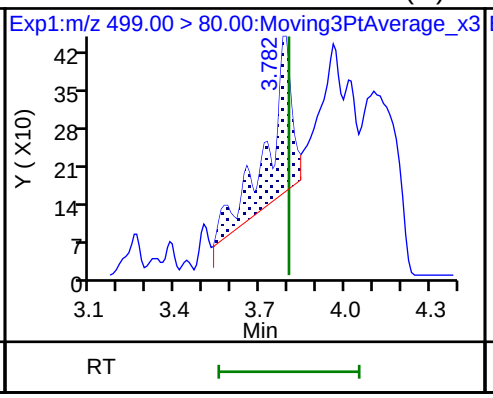
15 Perfluorooctanoic acid (M)



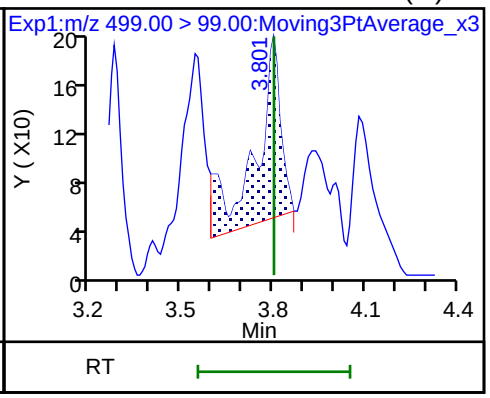
D 18 13C4 PFOS



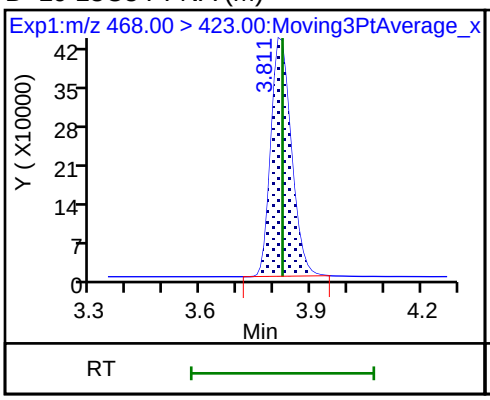
17 Perfluorooctanesulfonic acid (M)



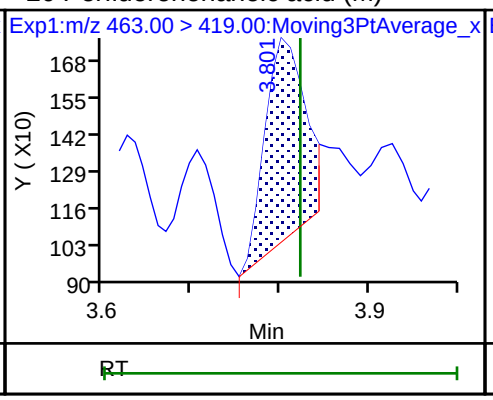
17 Perfluorooctanesulfonic acid (M)



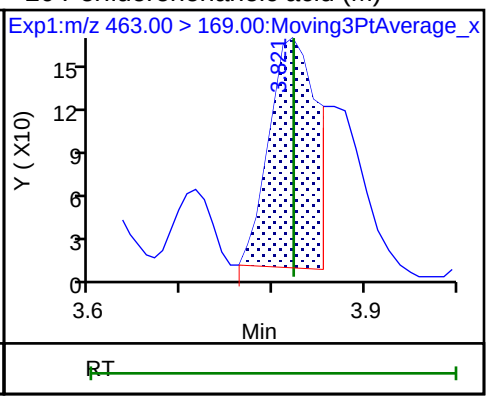
D 19 13C5 PFNA (M)



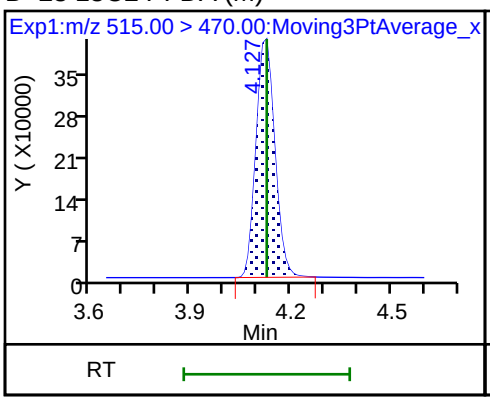
20 Perfluorononanoic acid (M)



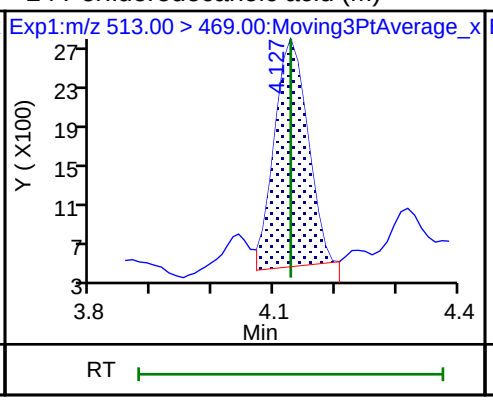
20 Perfluorononanoic acid (M)



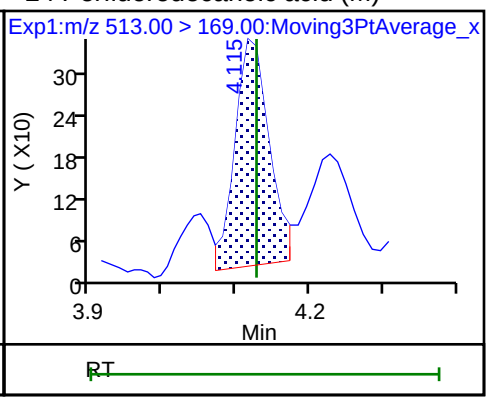
D 23 13C2 PFDA (M)



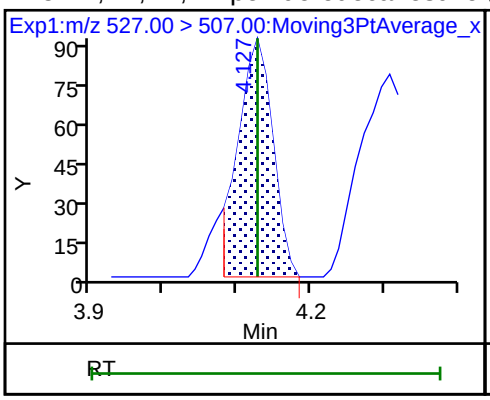
24 Perfluorodecanoic acid (M)



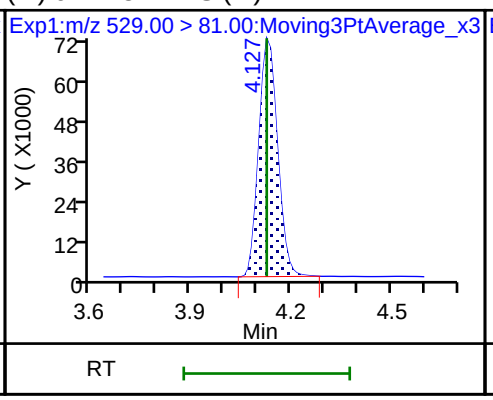
24 Perfluorodecanoic acid (M)



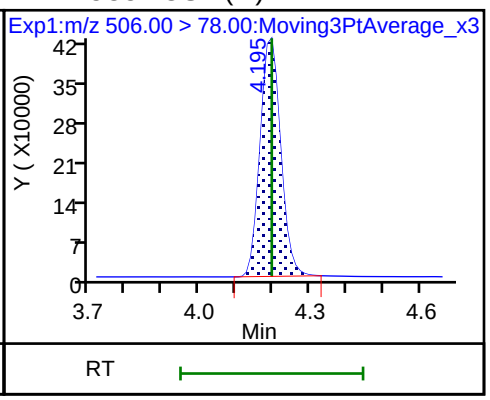
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



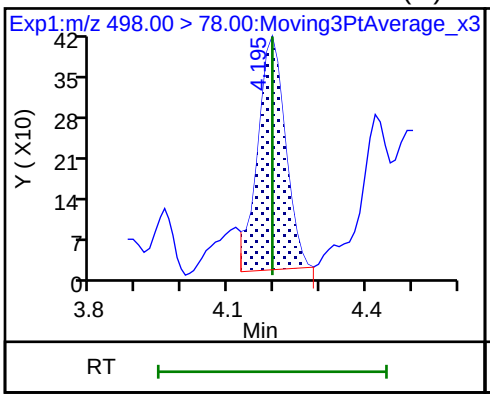
D 26 M2-8:2 FTS (M)



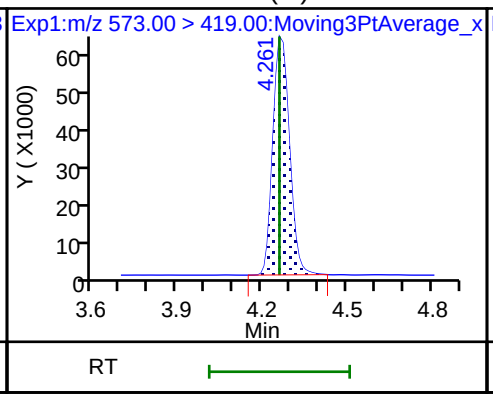
D 21 13C8 FOSA (M)



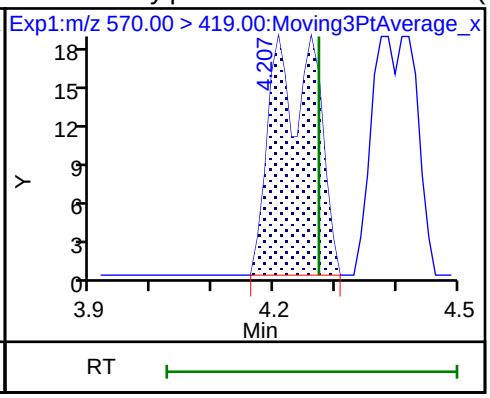
22 Perfluorooctanesulfonamide (M)



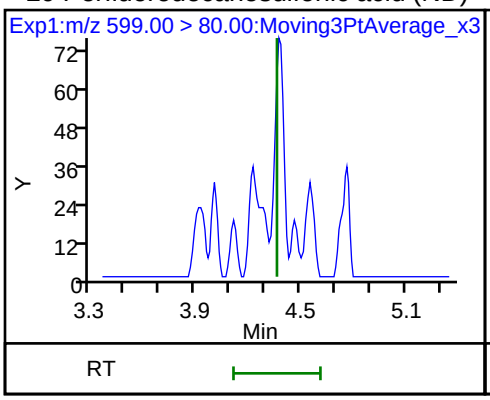
D 27 d3-NMeFOSAA (M)



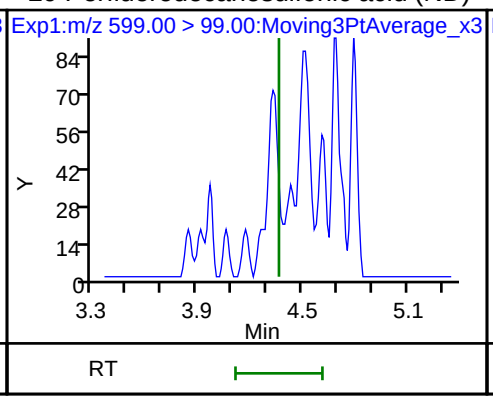
28 N-methylperfluorooctanesulfonami (M)



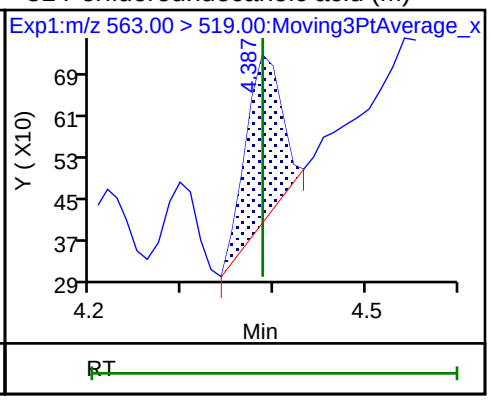
29 Perfluorodecanesulfonic acid (ND)



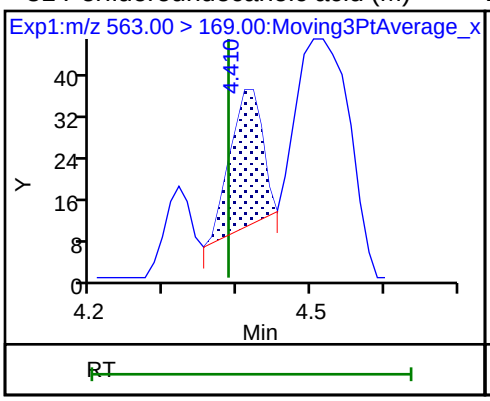
29 Perfluorodecanesulfonic acid (ND)



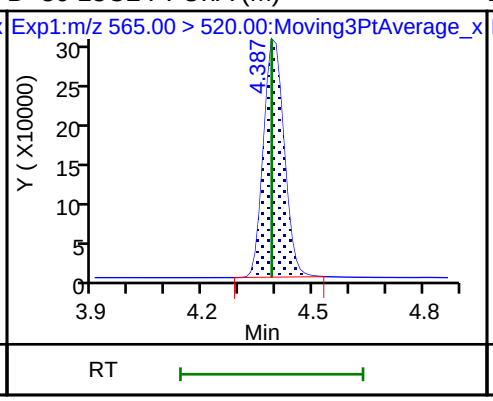
31 Perfluoroundecanoic acid (M)



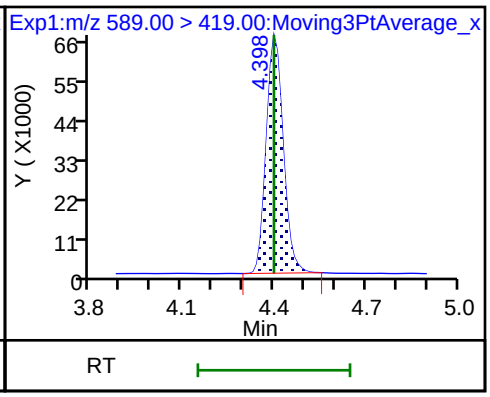
31 Perfluoroundecanoic acid (M)



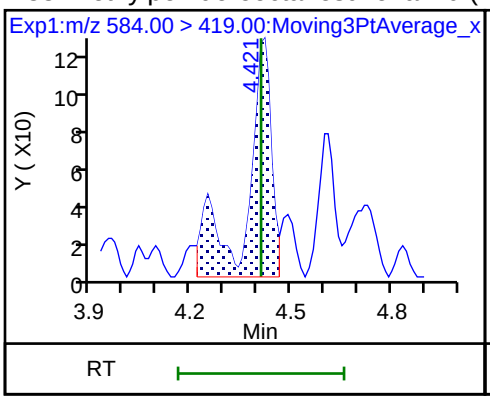
D 30 13C2 PFUnA (M)



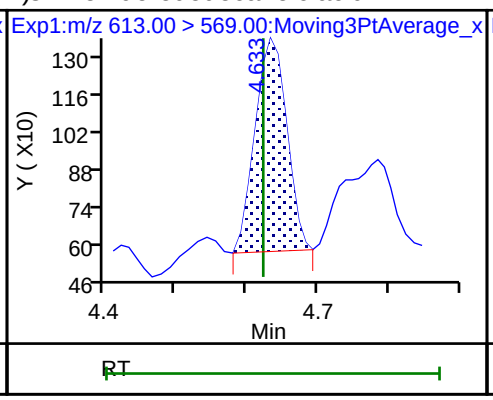
D 32 d5-NEtFOSAA



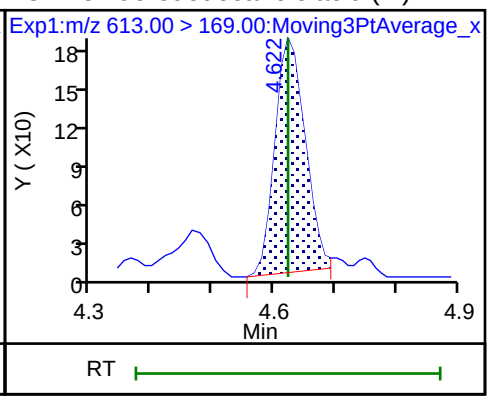
33 N-ethylperfluorooctanesulfonamid (M)



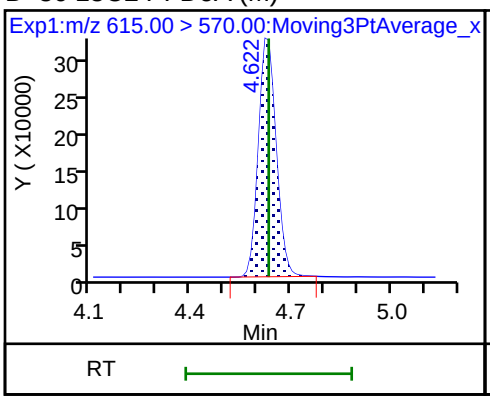
37 Perfluorododecanoic acid



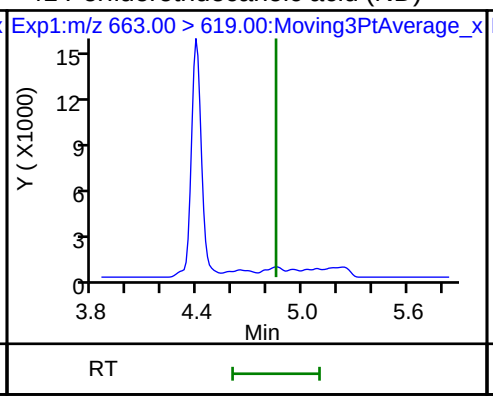
37 Perfluorododecanoic acid (M)



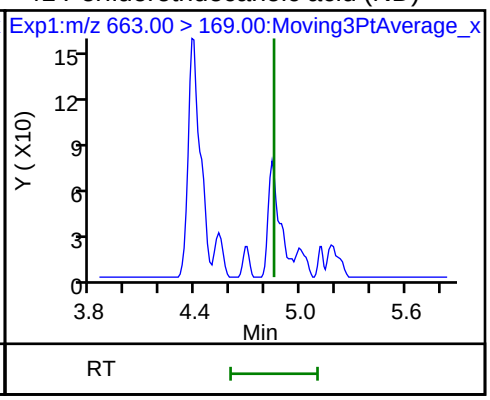
D 36 13C2 PFDoA (M)



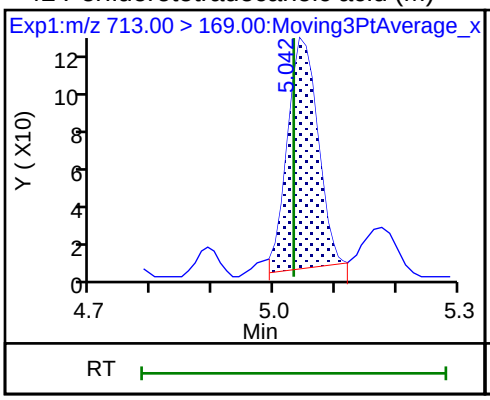
41 Perfluorotridecanoic acid (ND)



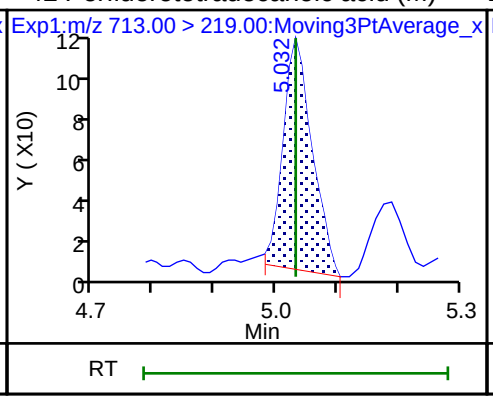
41 Perfluorotridecanoic acid (ND)



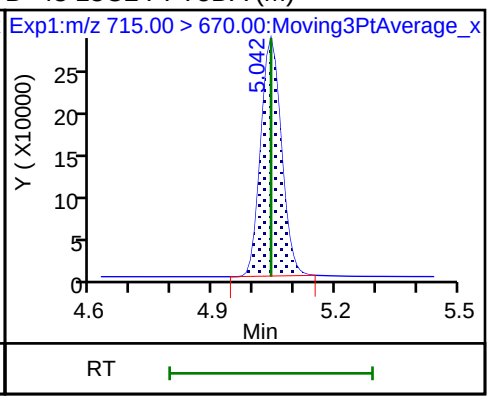
42 Perfluorotetradecanoic acid (M)



42 Perfluorotetradecanoic acid (M)



D 43 13C2 PFTeDA (M)



Manual Integration/User Assign Peak Report

Eurofins Burlington

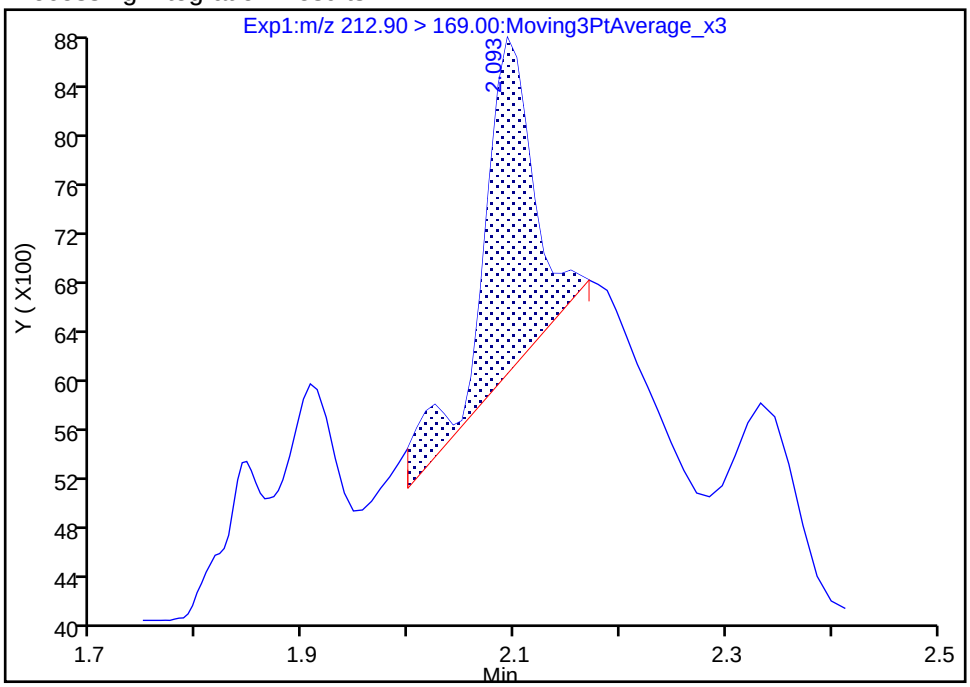
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

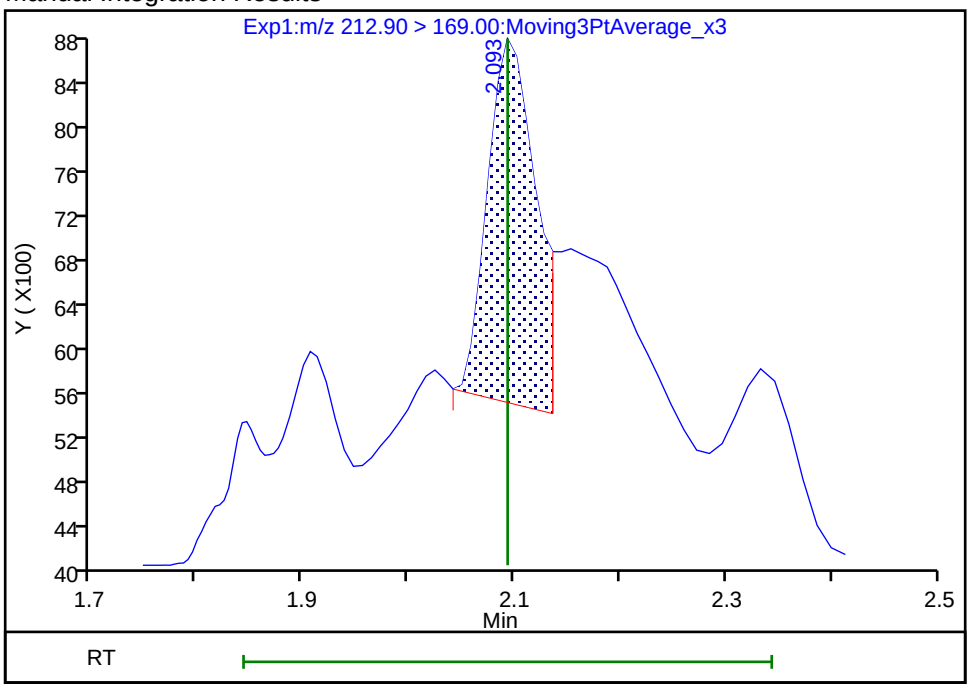
Processing Integration Results

RT: 2.09
Area: 8809
Amount: 0.005744
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 10209
Amount: 0.006685
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:40:25

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

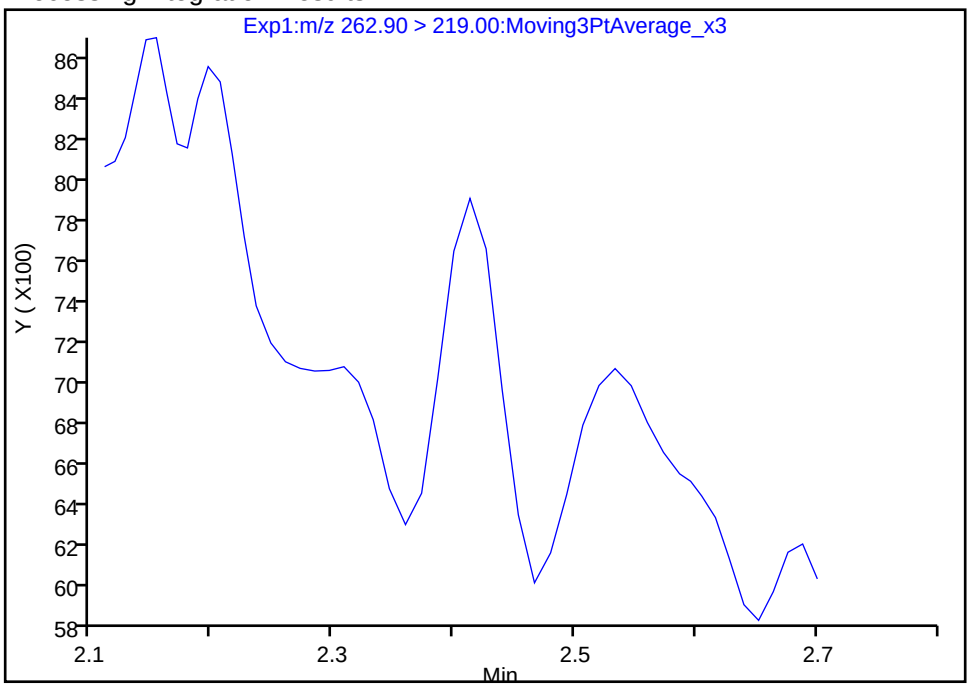
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

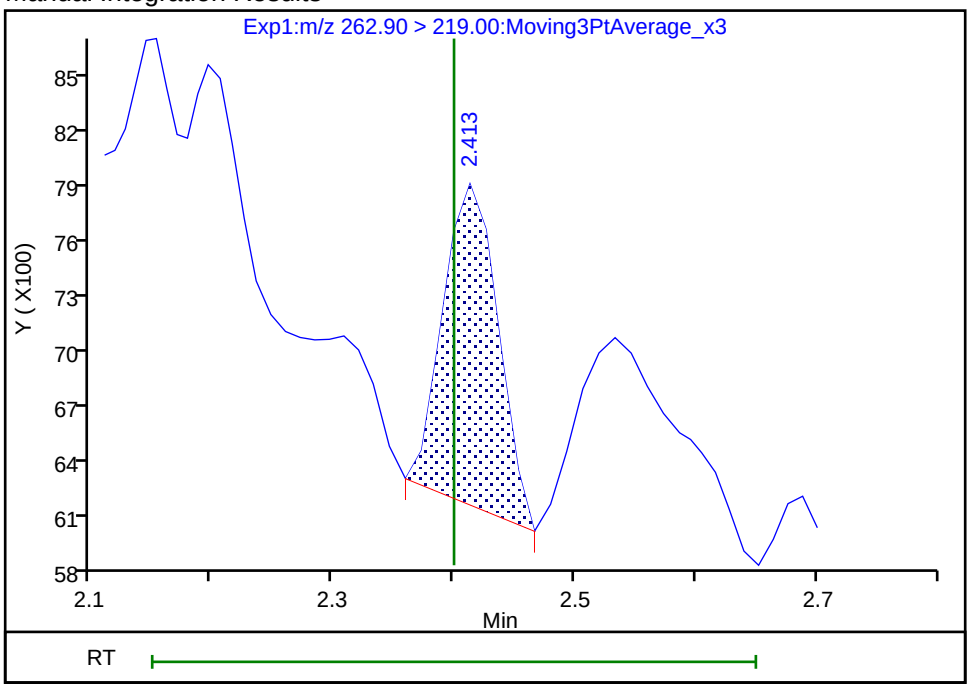
Not Detected
Expected RT: 2.40

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 5437
Amount: 0.004314
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:40:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

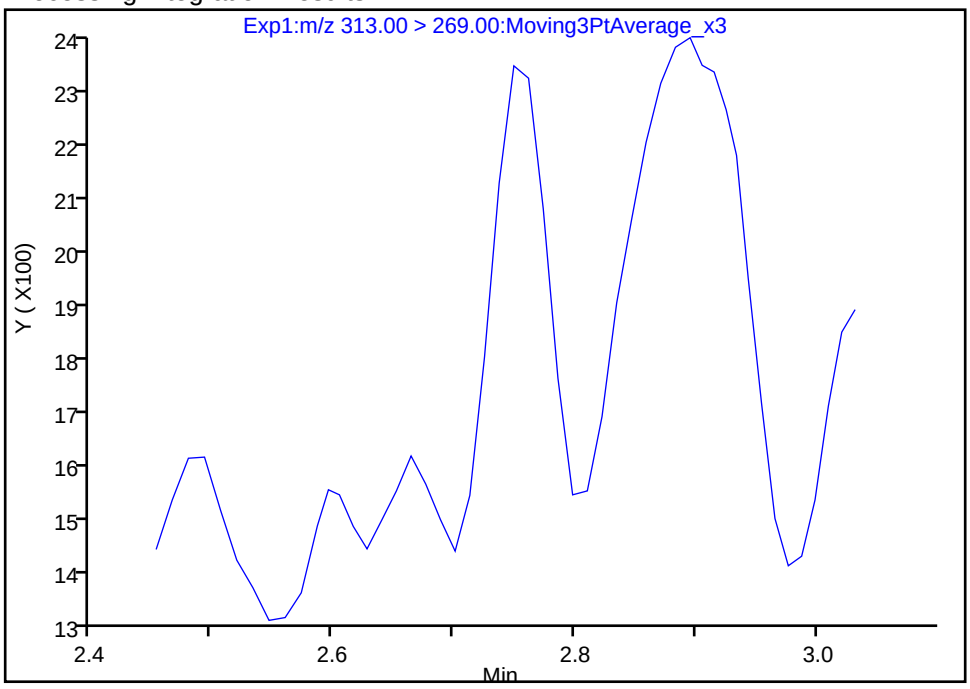
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

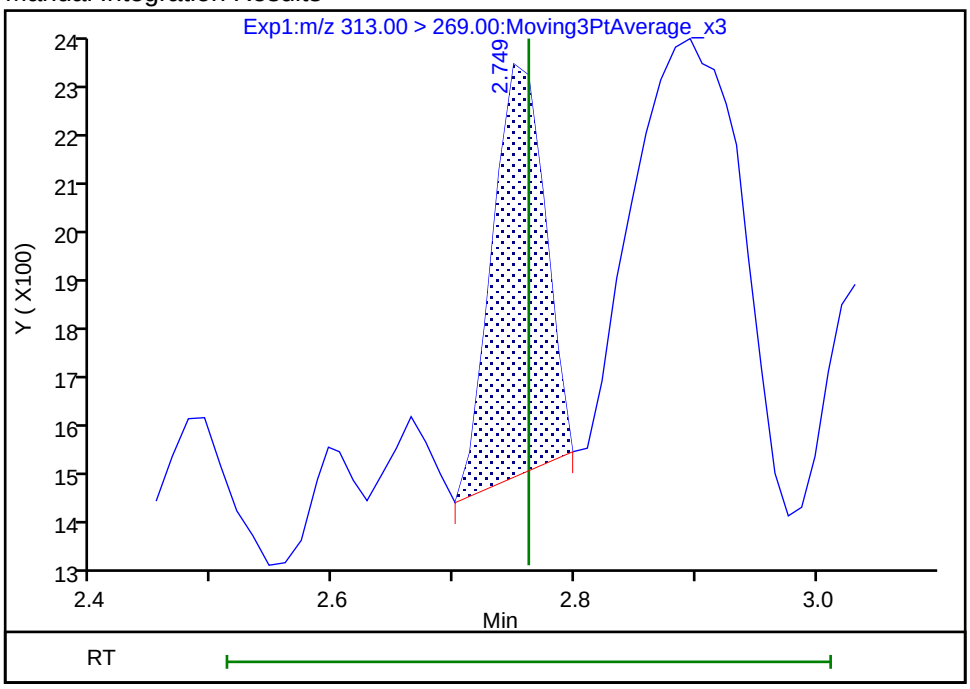
Not Detected
Expected RT: 2.76

Processing Integration Results



Manual Integration Results

RT: 2.75
Area: 2456
Amount: 0.001872
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:40:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

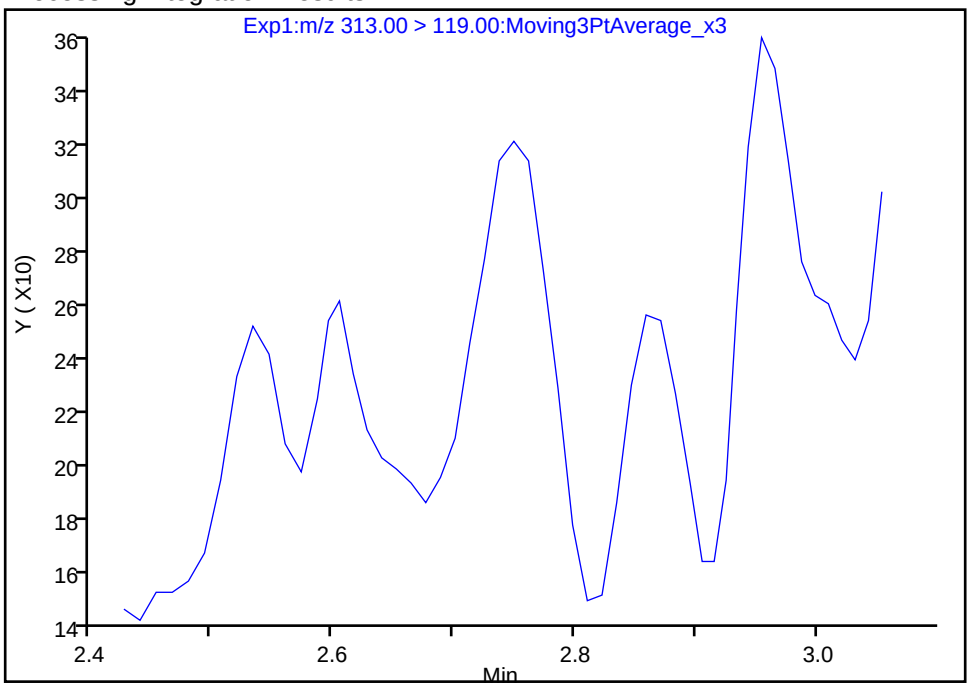
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

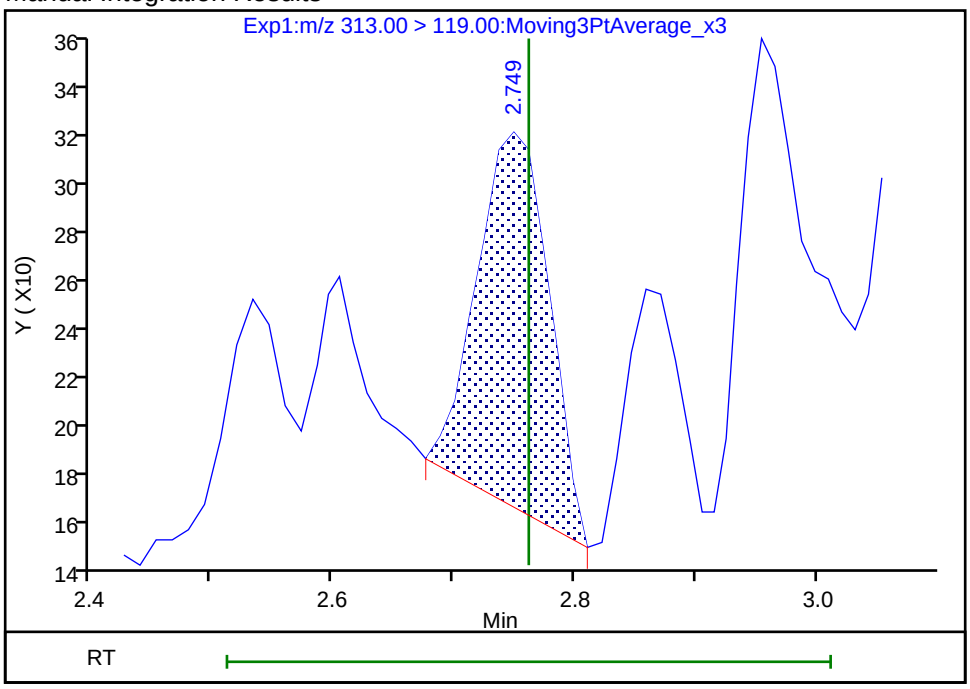
Not Detected
Expected RT: 2.76

Processing Integration Results



Manual Integration Results

RT: 2.75
Area: 613
Amount: 0.001872
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:40:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

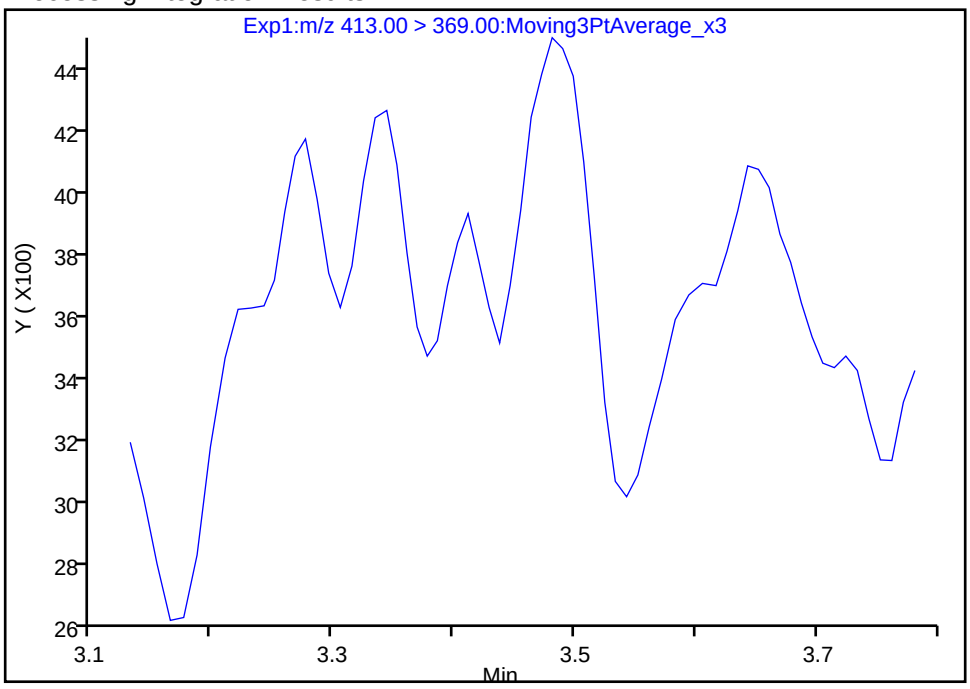
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

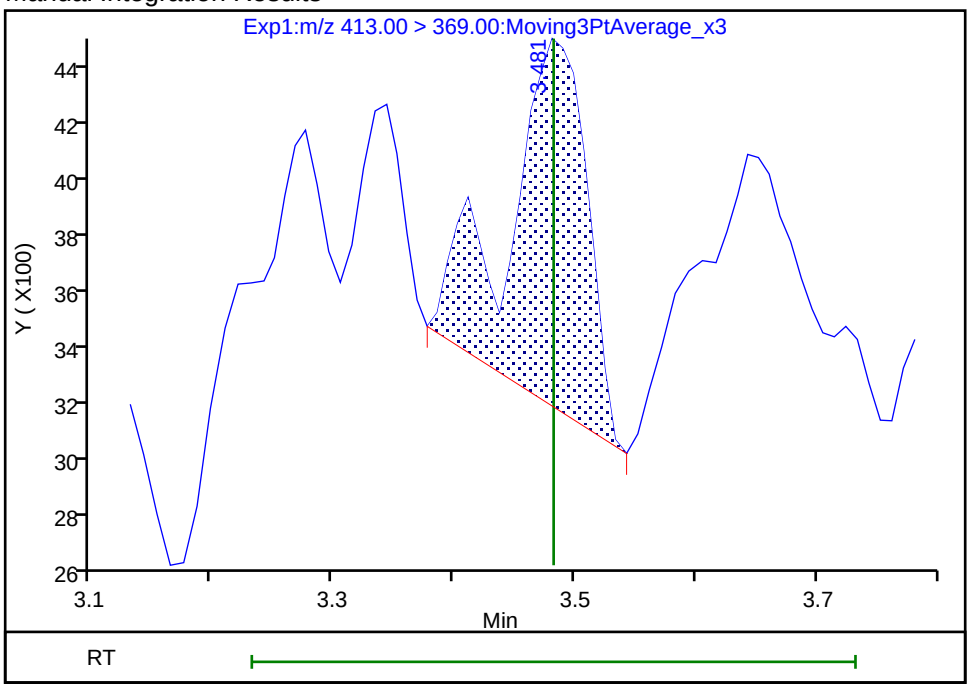
Not Detected
Expected RT: 3.48

Processing Integration Results



Manual Integration Results

RT: 3.48
Area: 5696
Amount: 0.003784
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:41:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

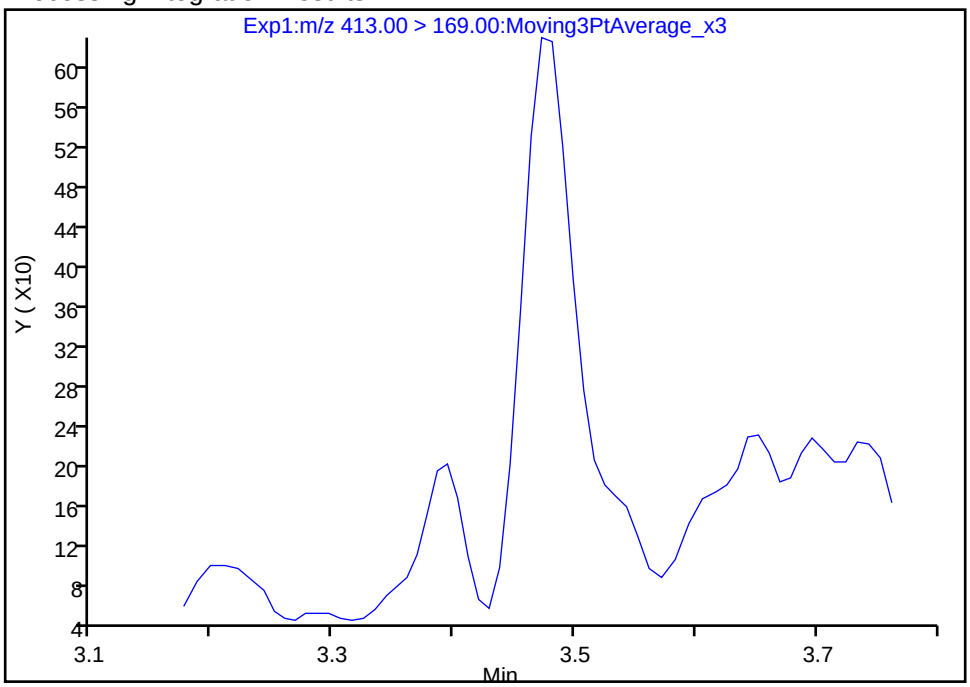
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

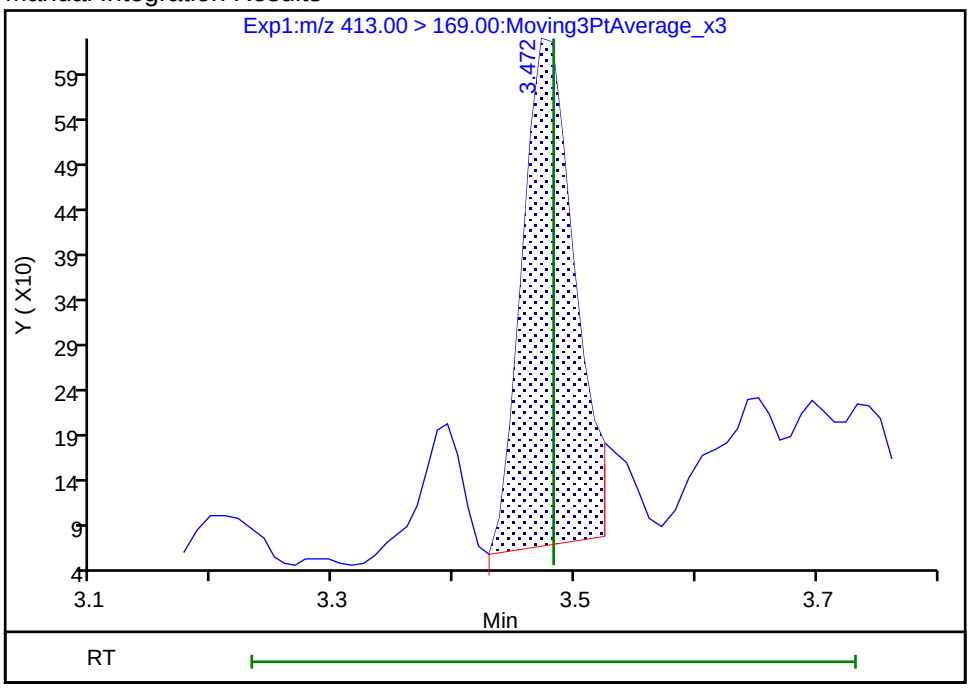
Not Detected
Expected RT: 3.48

Processing Integration Results



Manual Integration Results

RT: 3.47
Area: 1681
Amount: 0.003784
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:41:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

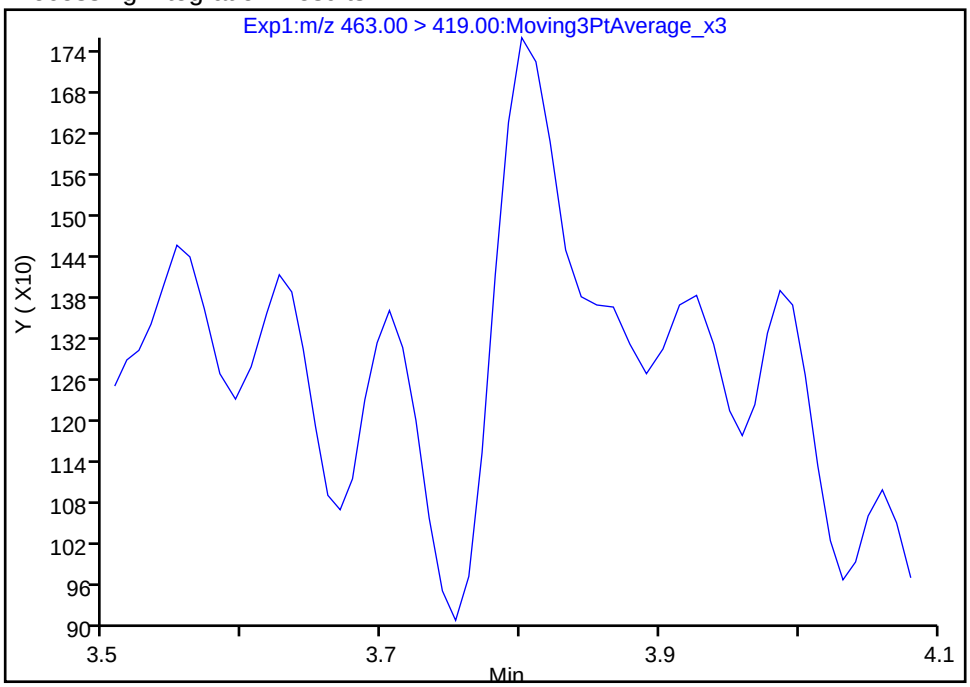
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

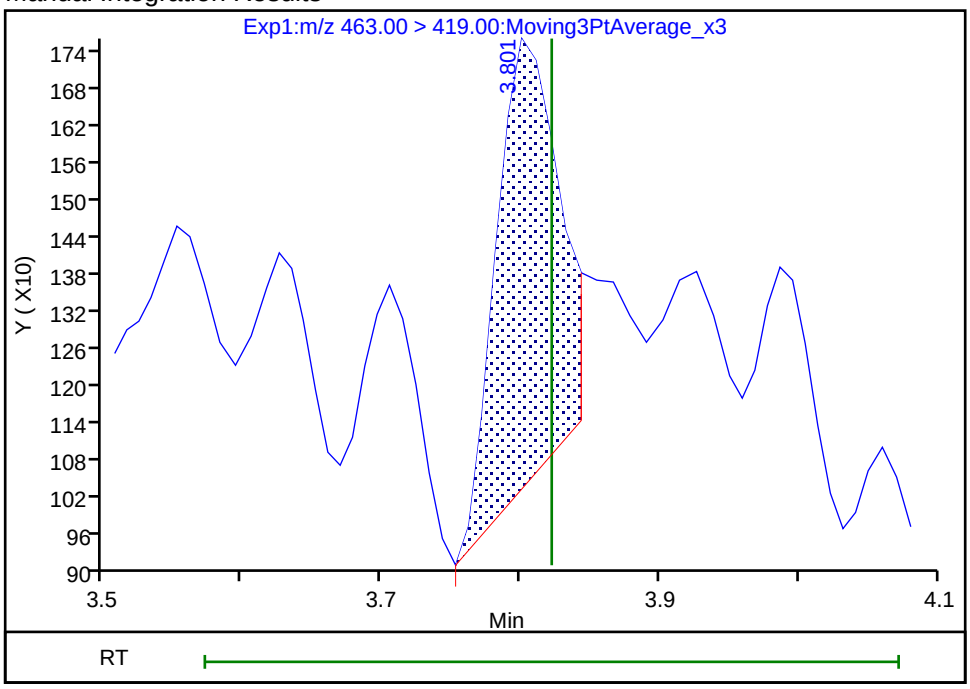
Not Detected
Expected RT: 3.82

Processing Integration Results



Manual Integration Results

RT: 3.80
Area: 2216
Amount: 0.001722
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:42:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

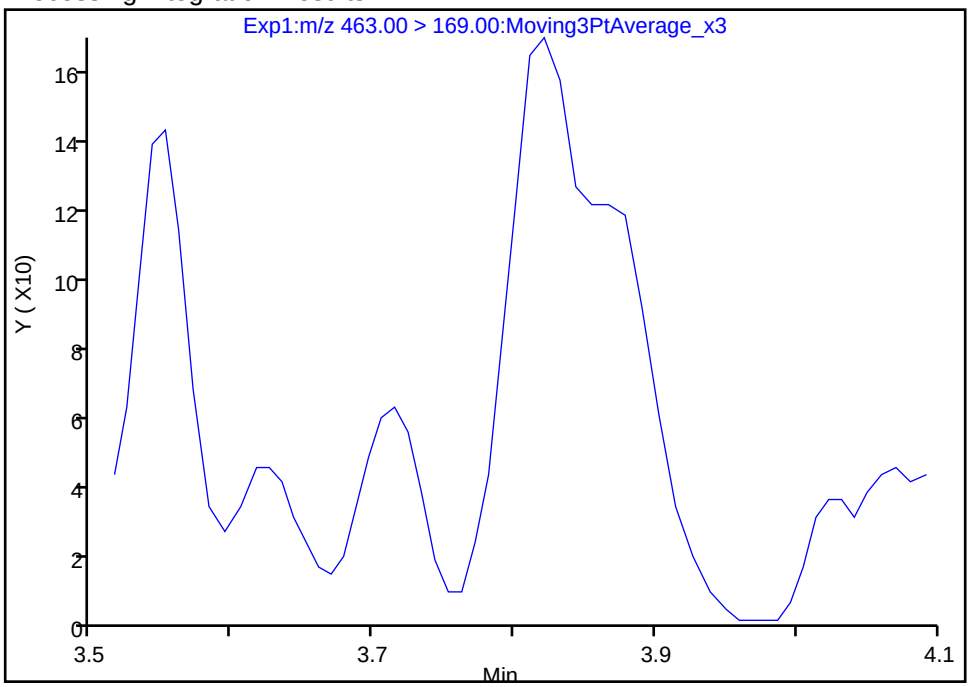
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

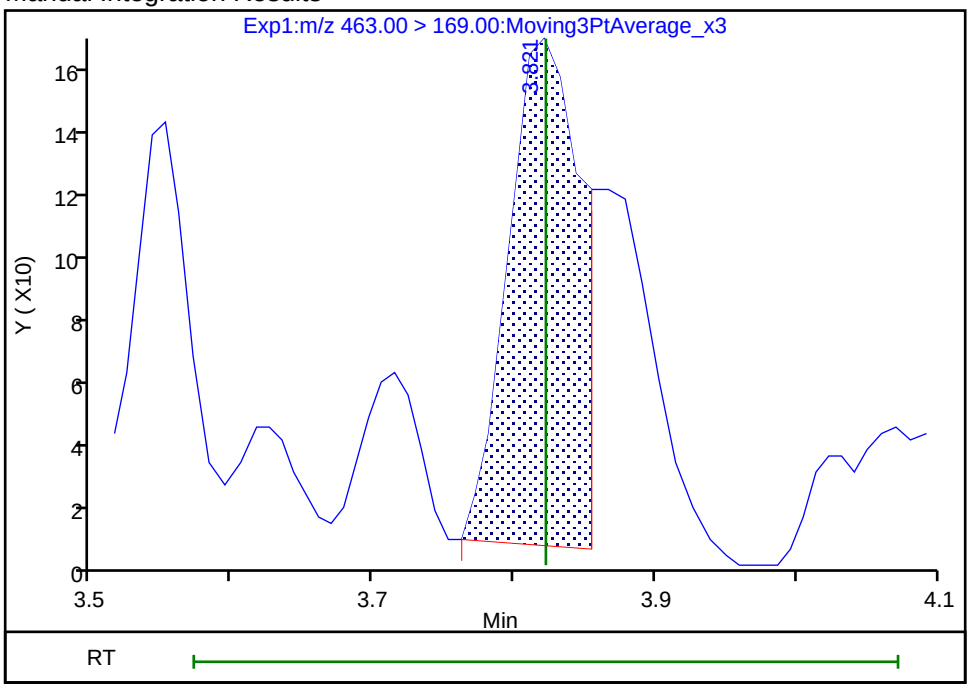
Not Detected
Expected RT: 3.82

Processing Integration Results



Manual Integration Results

RT: 3.82
Area: 544
Amount: 0.001722
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:42:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

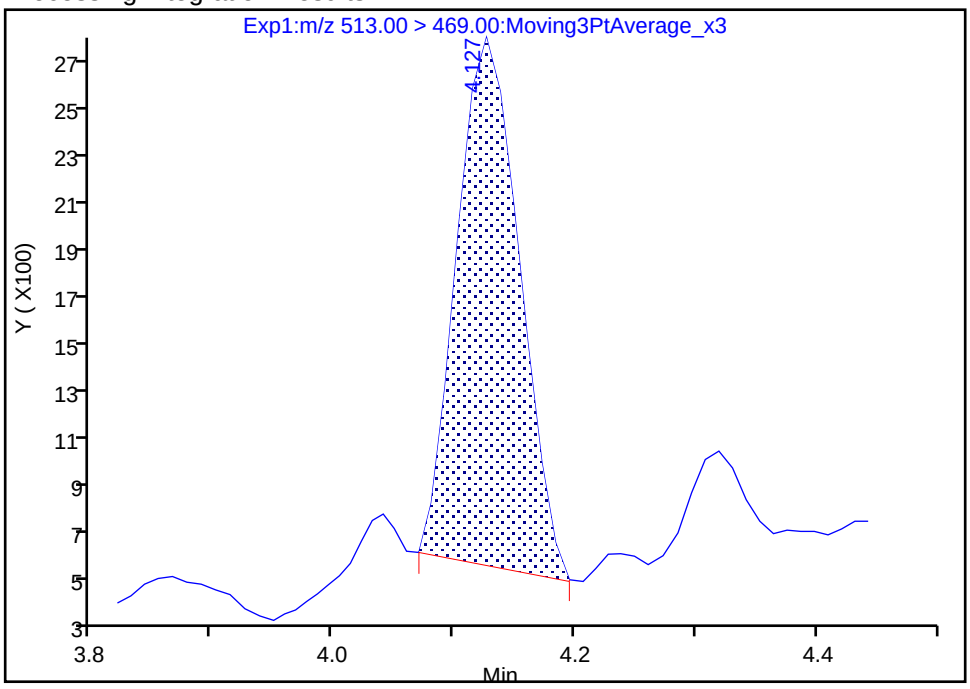
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

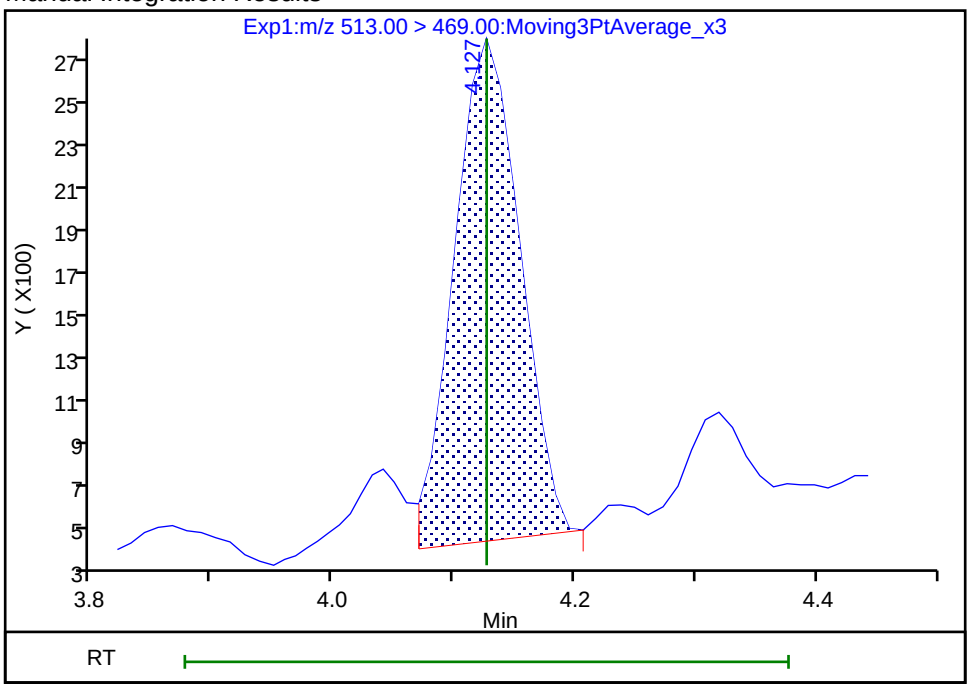
Processing Integration Results

RT: 4.13
Area: 7691
Amount: 0.005680
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 8474
Amount: 0.006258
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:45:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

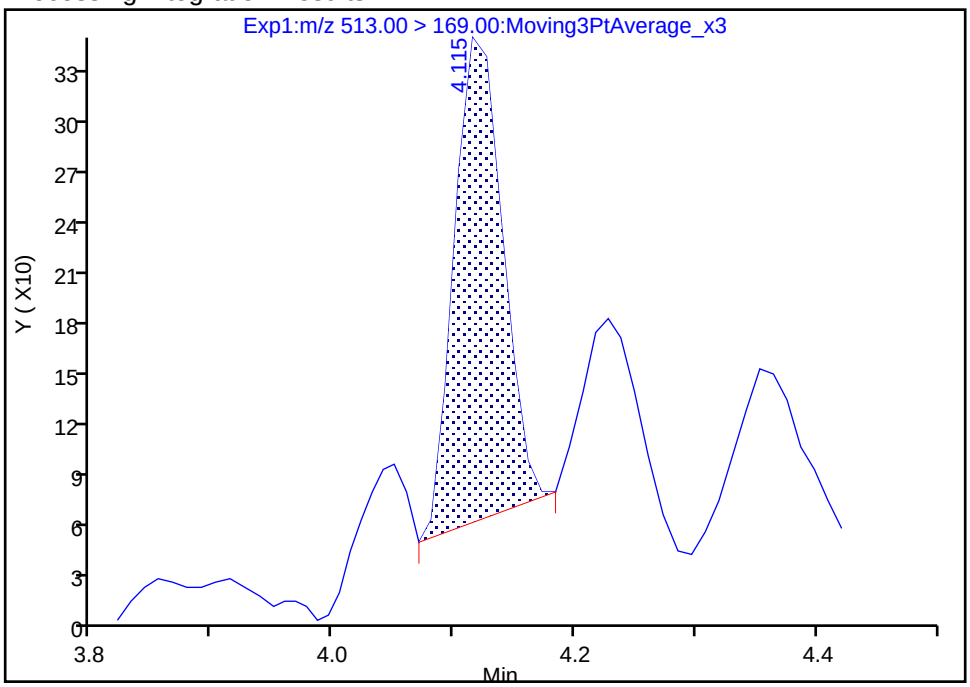
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

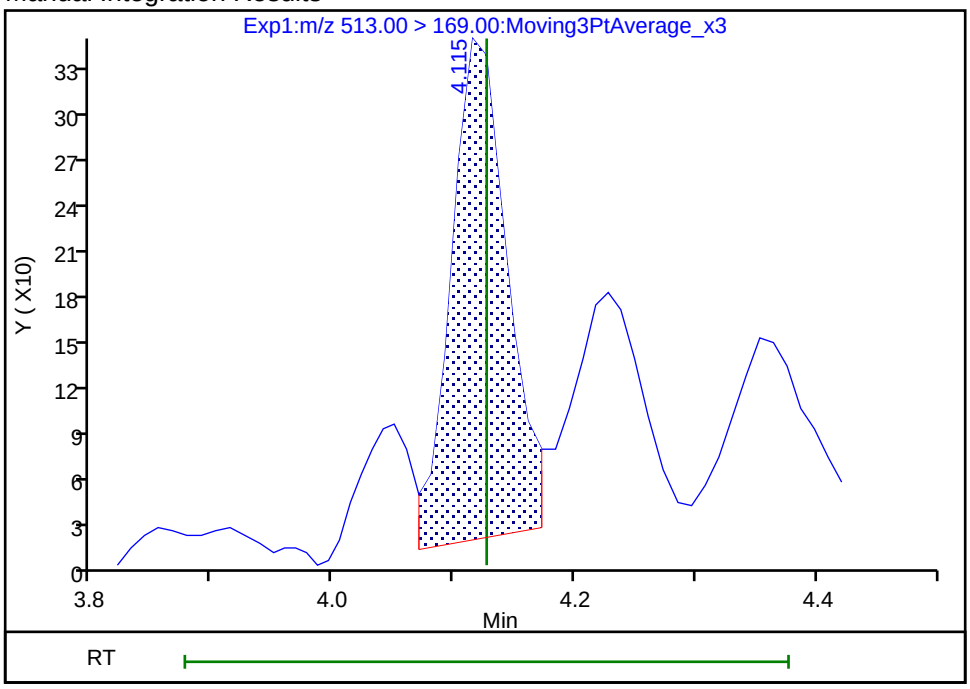
Processing Integration Results

RT: 4.12
Area: 775
Amount: 0.005680
Amount Units: ng/ml



Manual Integration Results

RT: 4.12
Area: 1025
Amount: 0.006258
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:45:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

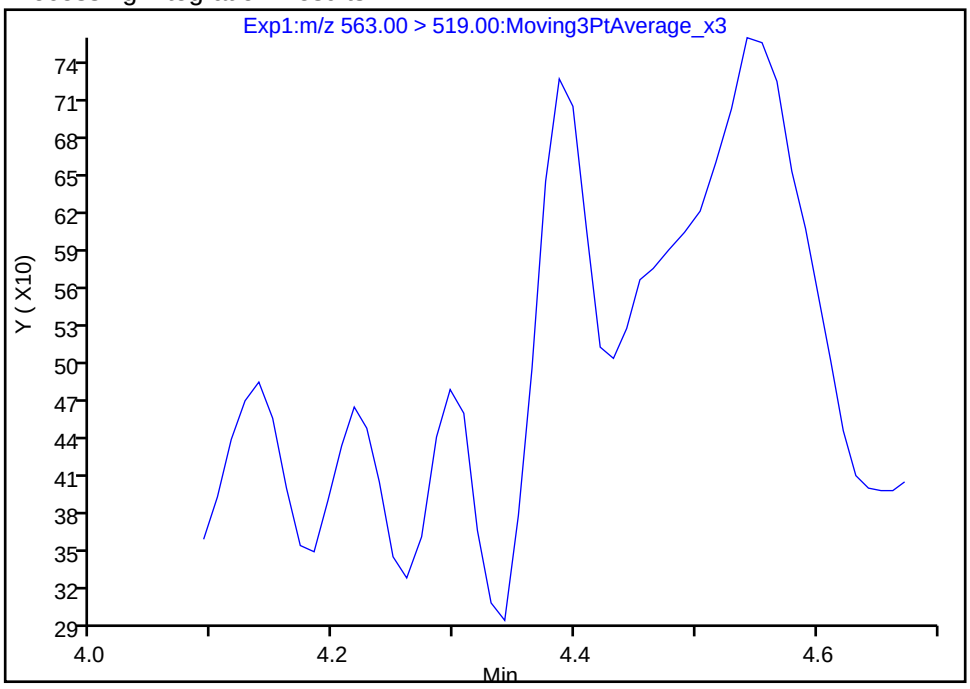
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

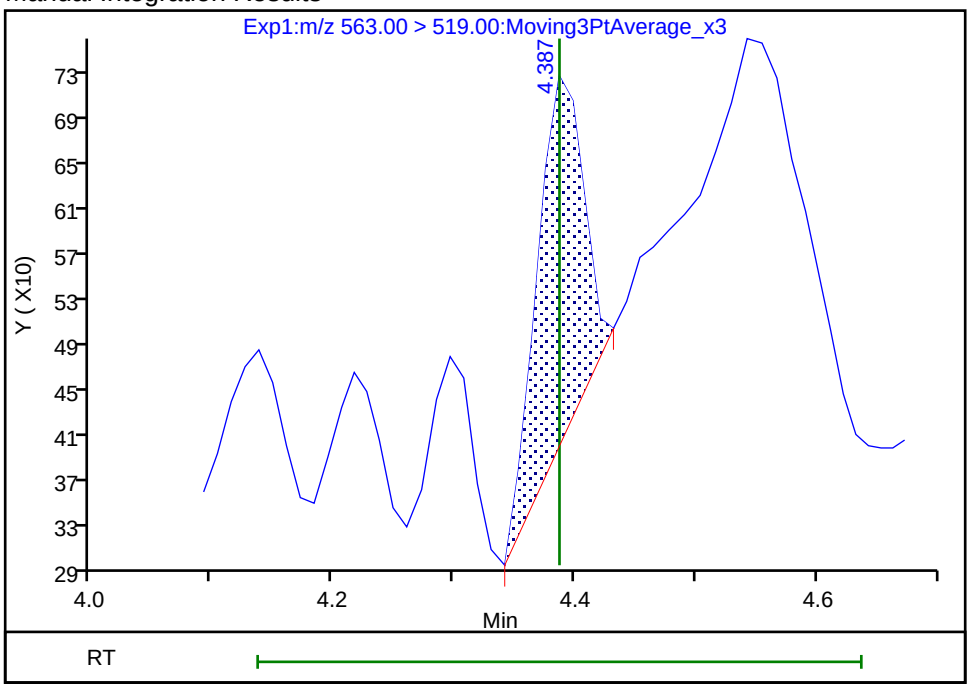
Not Detected
Expected RT: 4.39

Processing Integration Results



Manual Integration Results

RT: 4.39
Area: 866
Amount: 0.000886
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:43:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

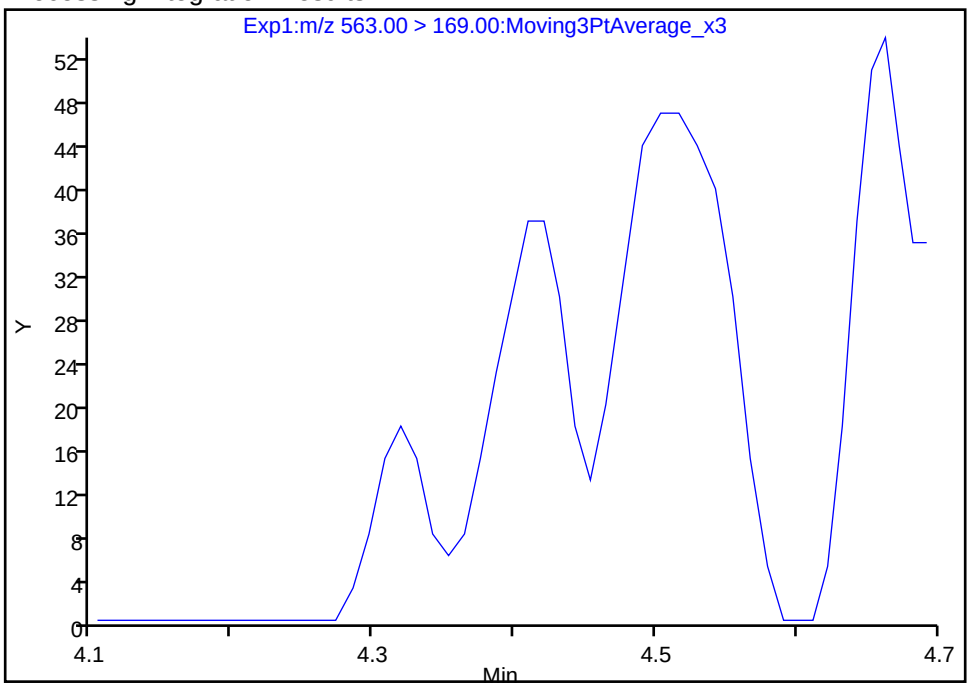
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

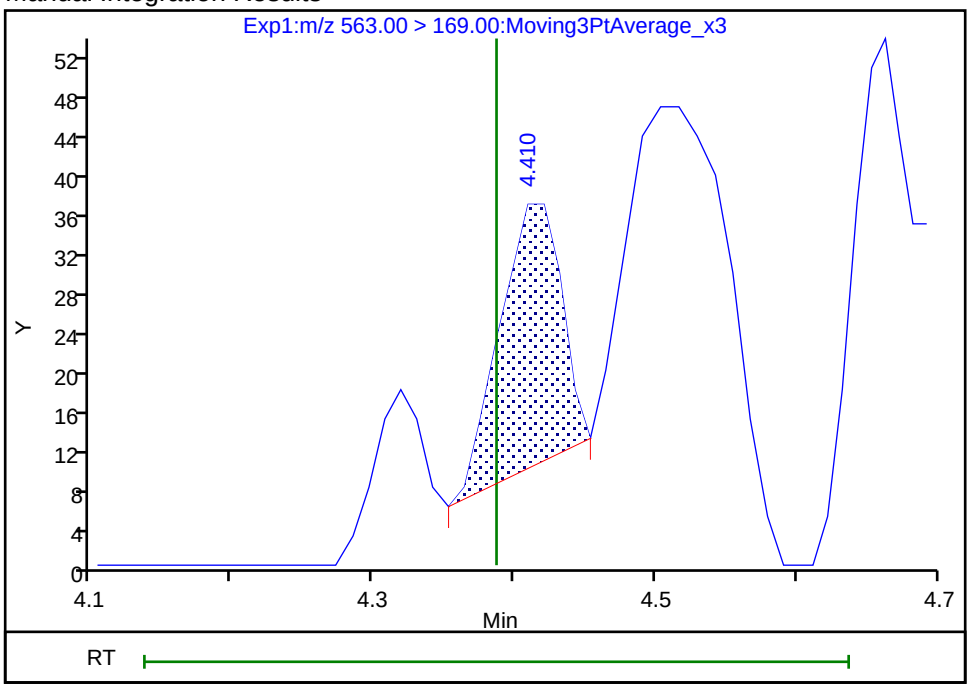
Not Detected
Expected RT: 4.39

Processing Integration Results



Manual Integration Results

RT: 4.41
Area: 81
Amount: 0.000886
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:43:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

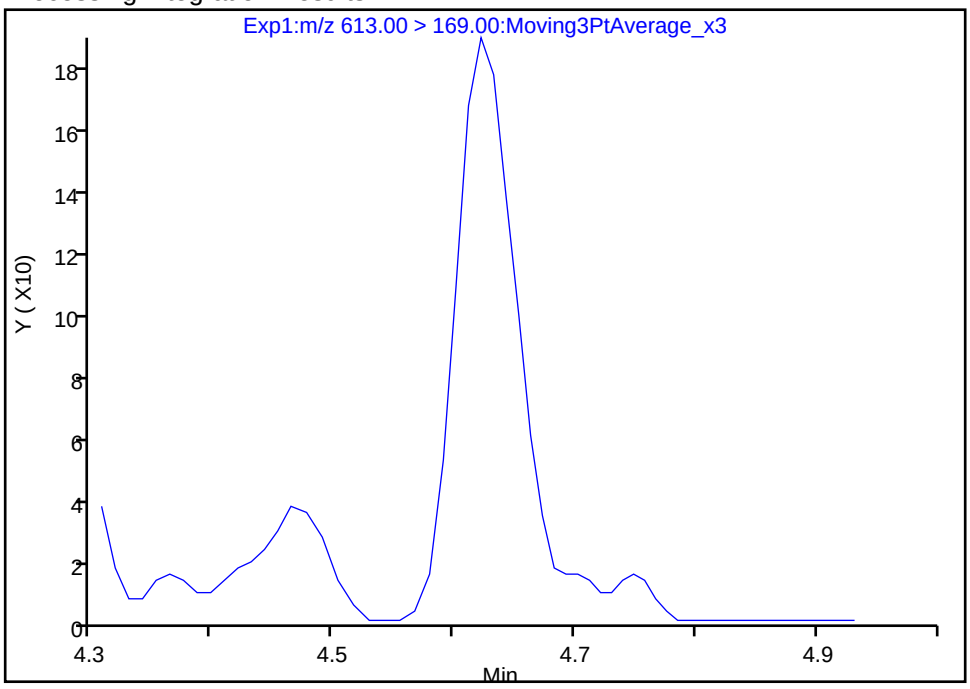
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

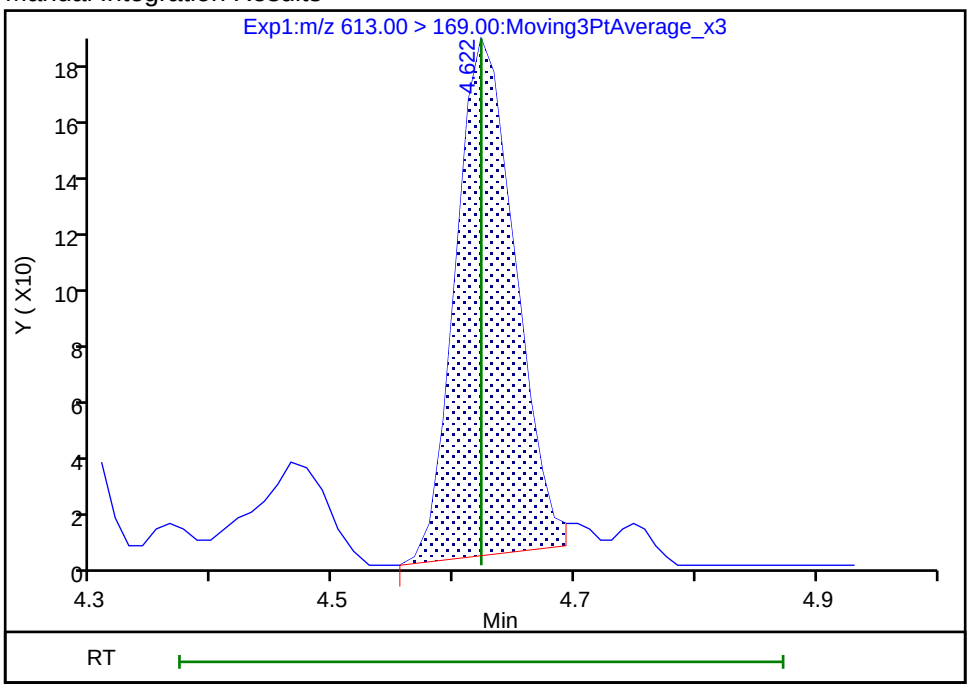
Not Detected
Expected RT: 4.62

Processing Integration Results



Manual Integration Results

RT: 4.62
Area: 633
Amount: 0.002531
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:44:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

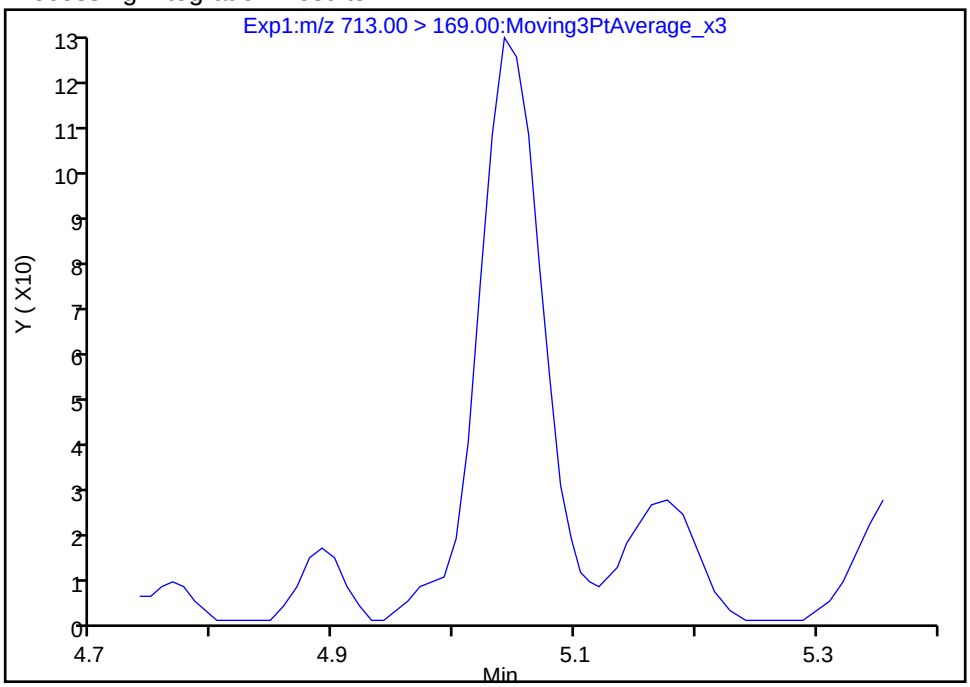
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

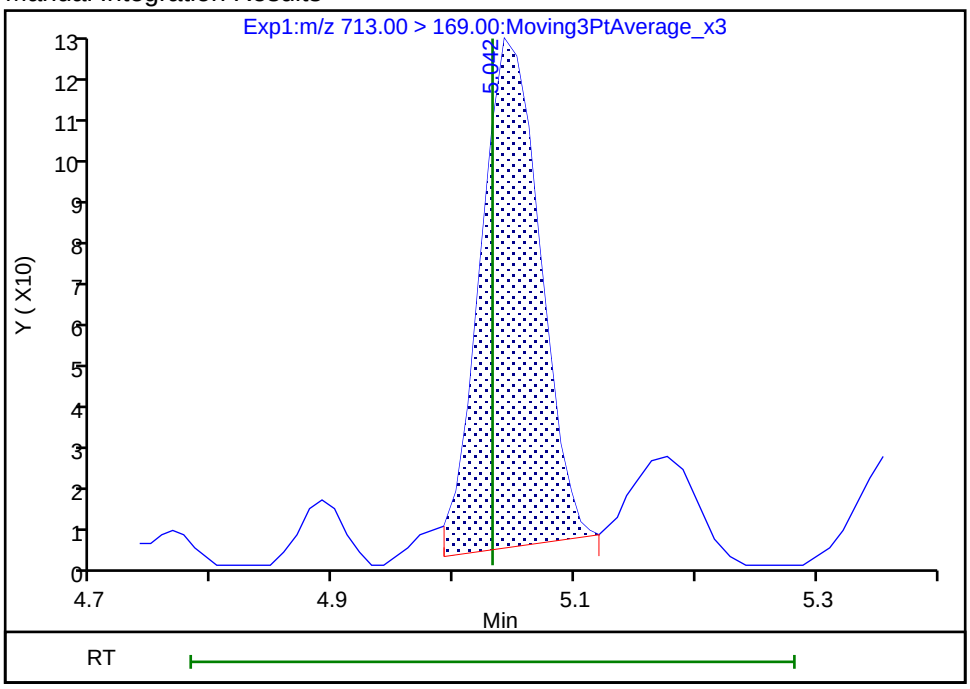
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.04
Area: 401
Amount: 0.003292
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:44:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

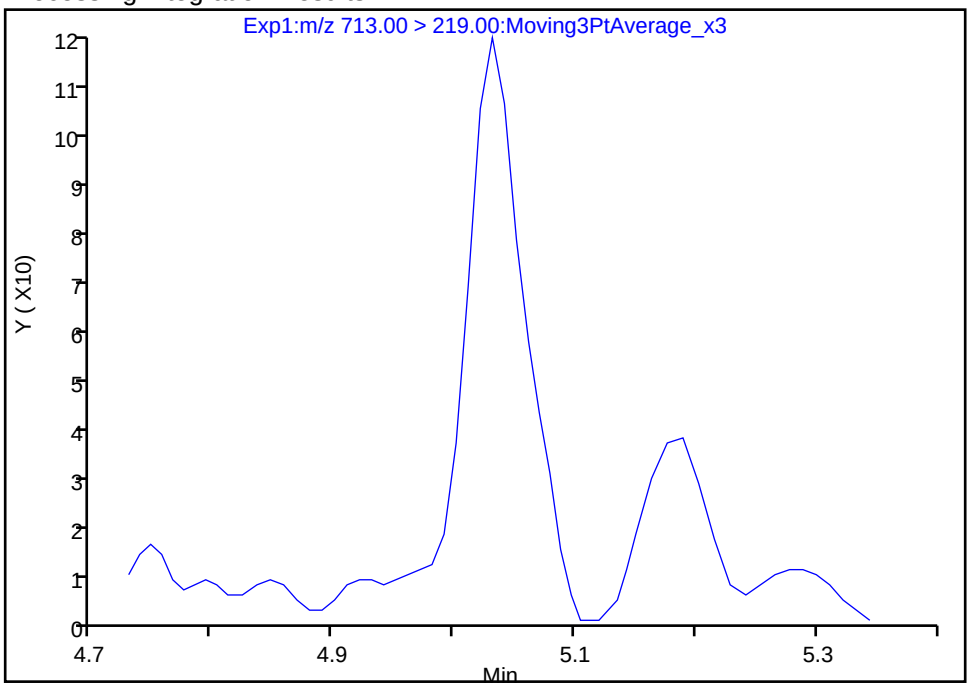
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

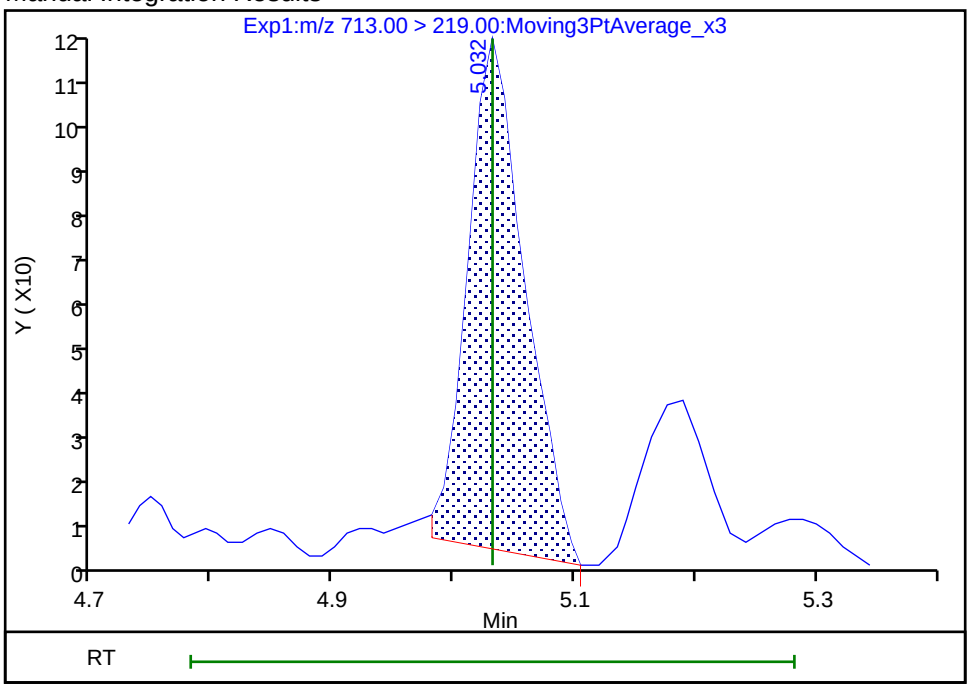
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.03
Area: 365
Amount: 0.003292
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:44:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

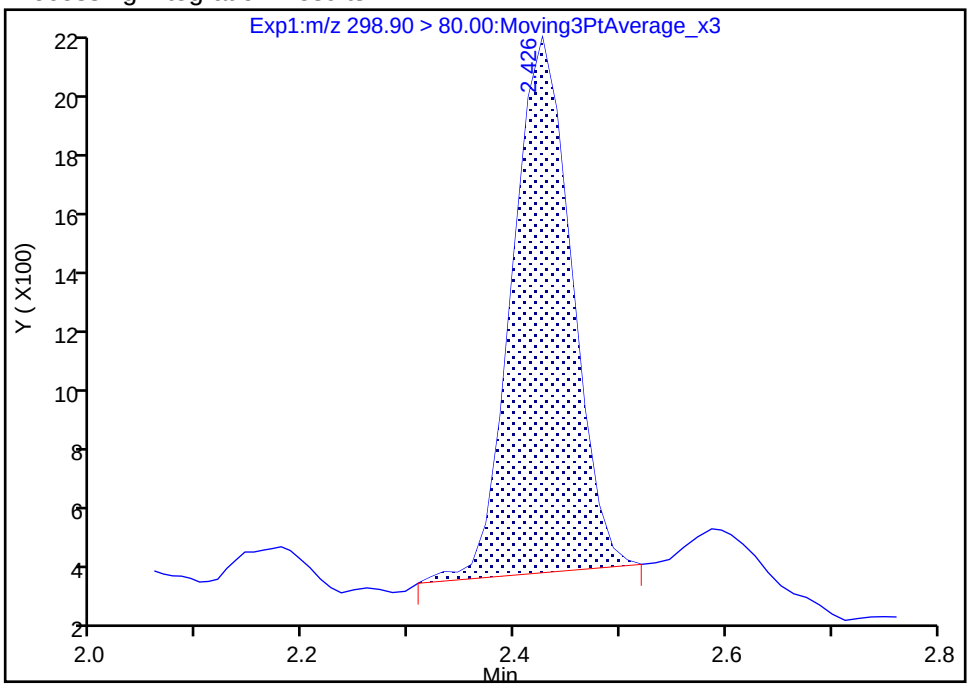
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

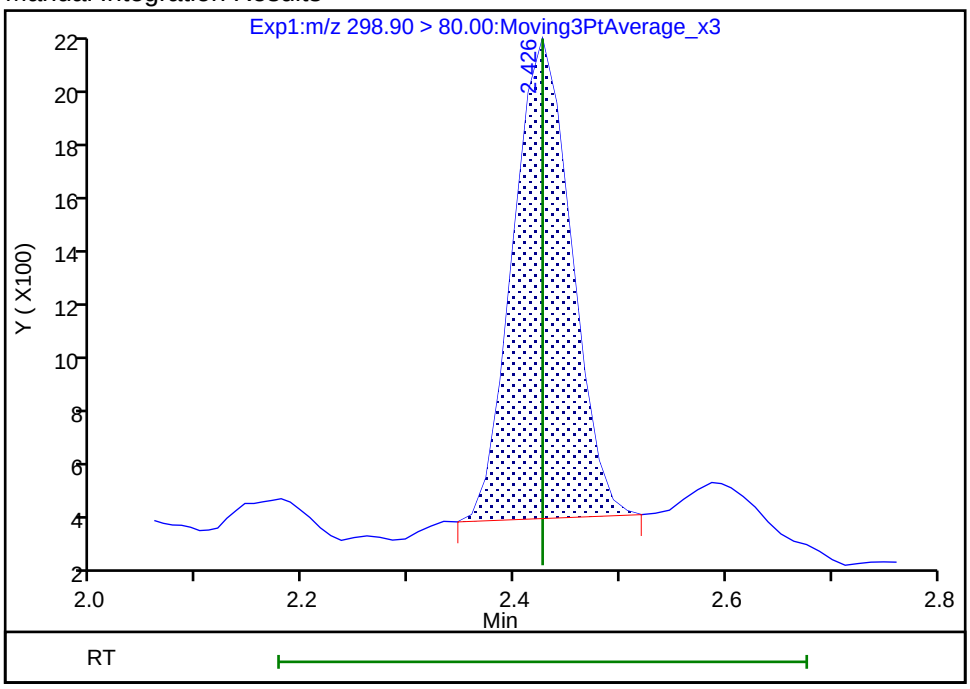
Processing Integration Results

RT: 2.43
Area: 6760
Amount: 0.003921
Amount Units: ng/ml



Manual Integration Results

RT: 2.43
Area: 6590
Amount: 0.003822
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:40:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

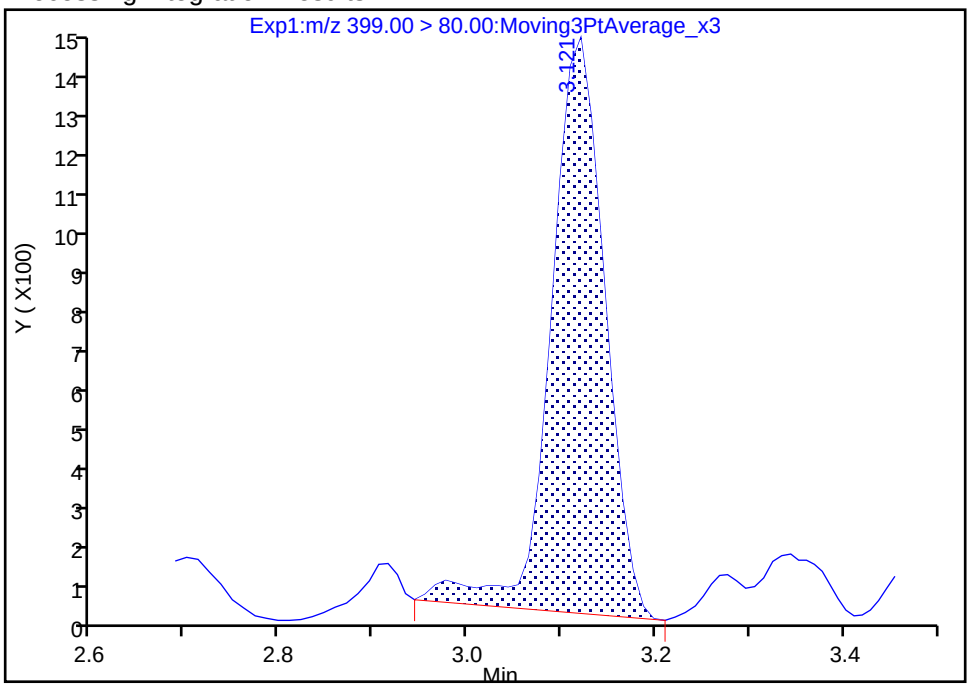
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

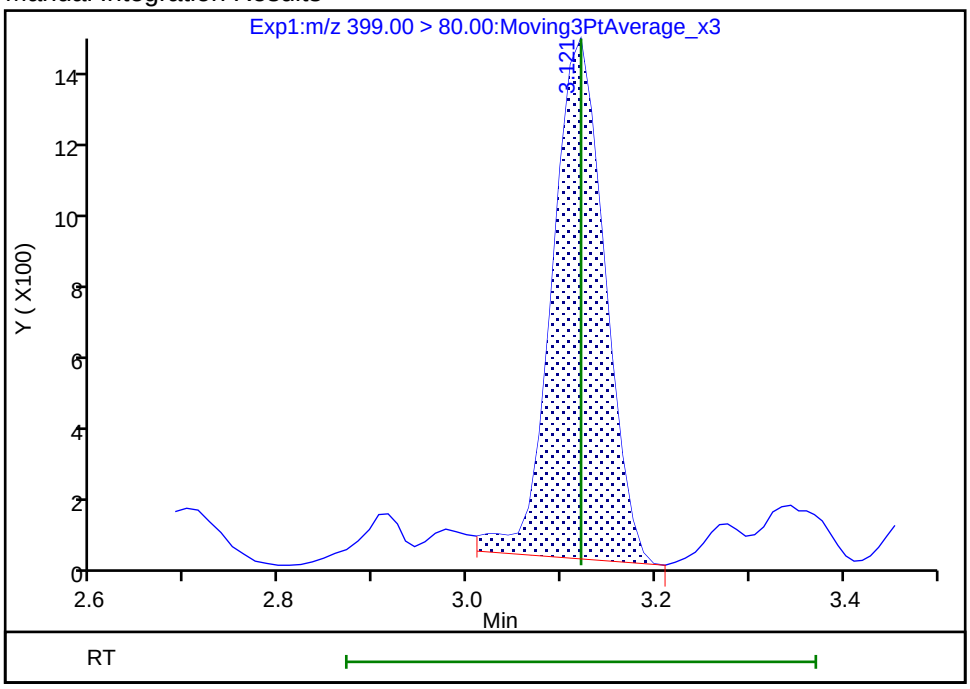
Processing Integration Results

RT: 3.12
Area: 5584
Amount: 0.004152
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 5435
Amount: 0.004083
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:41:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

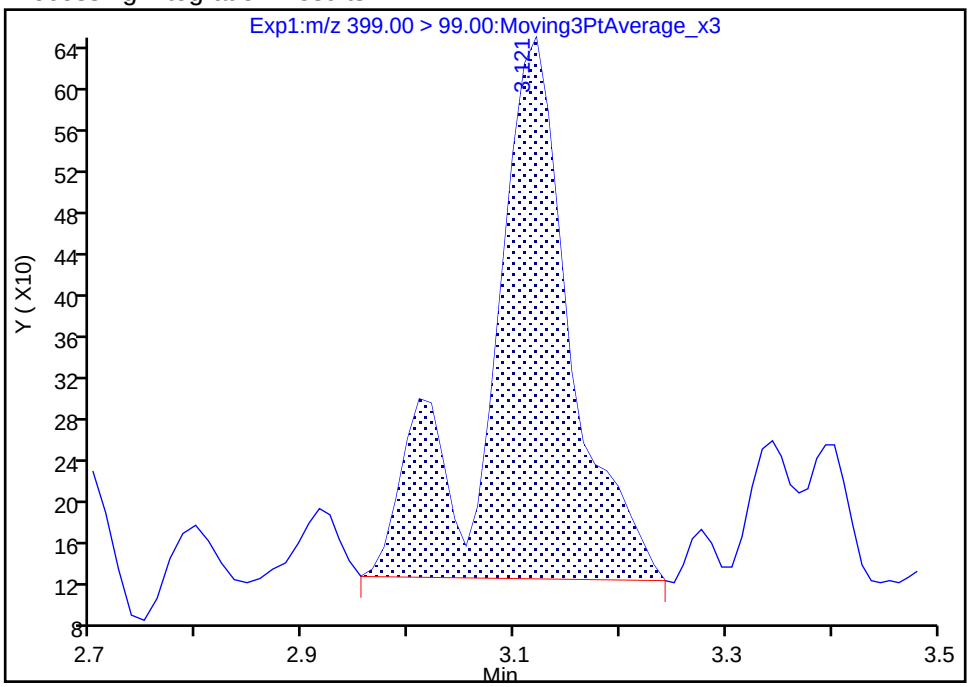
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

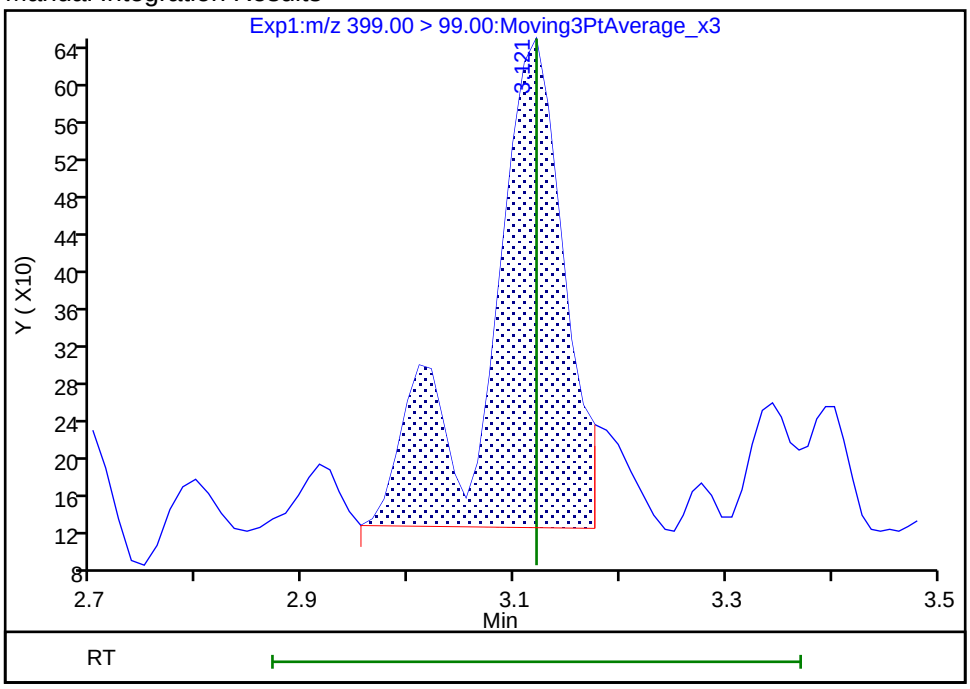
Processing Integration Results

RT: 3.12
Area: 2813
Amount: 0.004152
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 2569
Amount: 0.004083
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:41:04

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

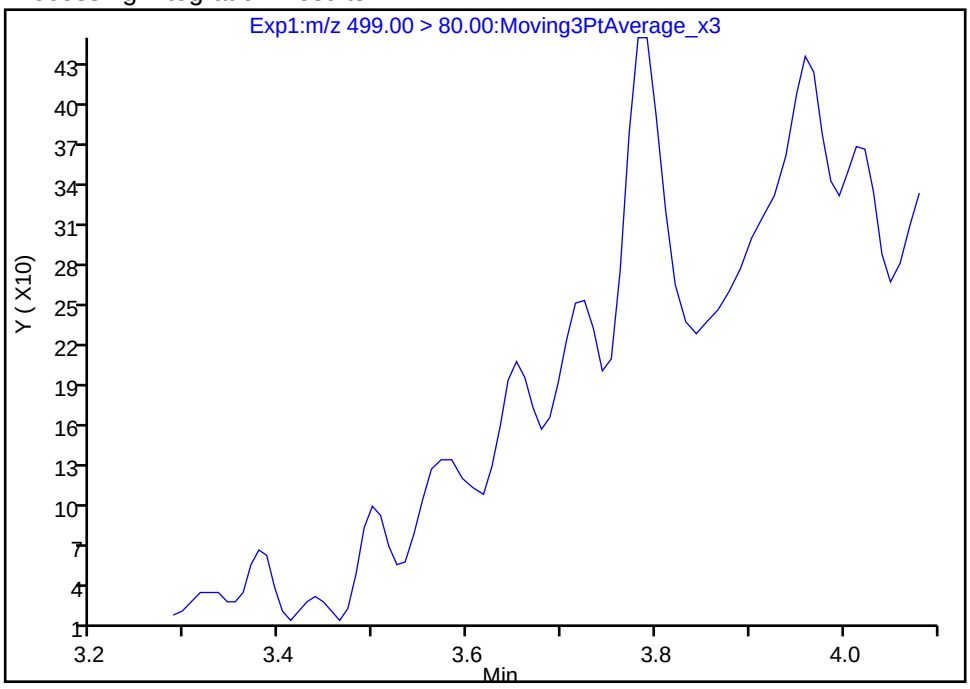
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

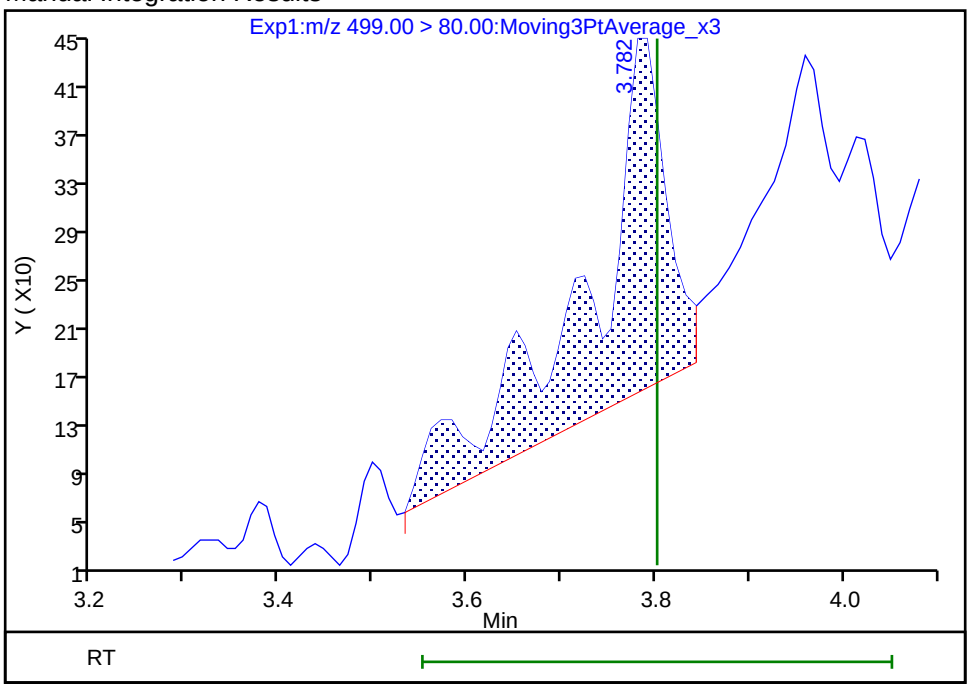
Not Detected
Expected RT: 3.80

Processing Integration Results



Manual Integration Results

RT: 3.78
Area: 1718
Amount: 0.001874
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:42:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

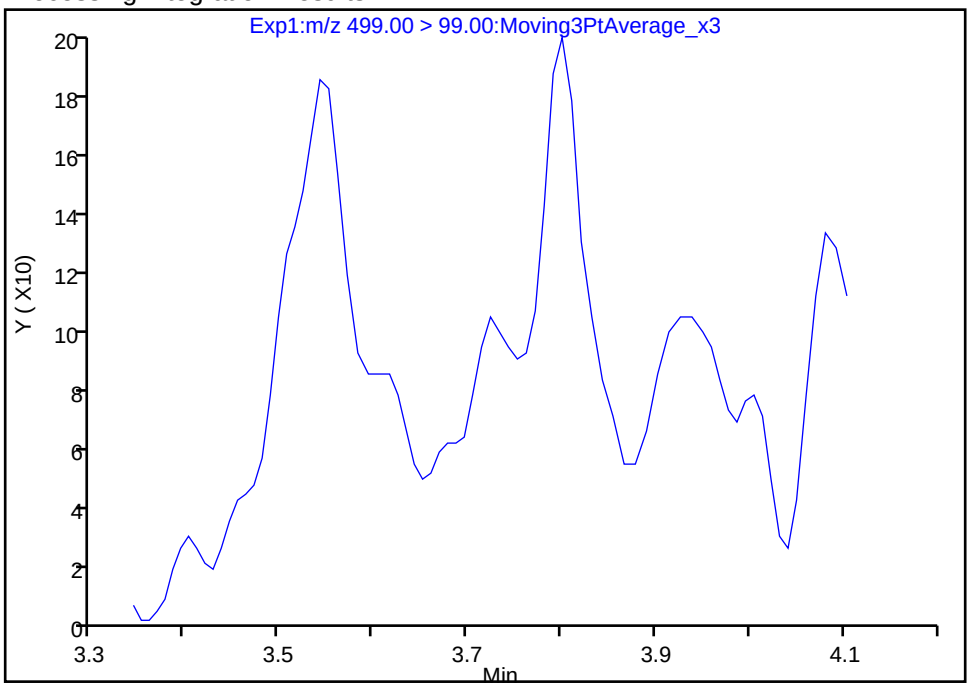
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

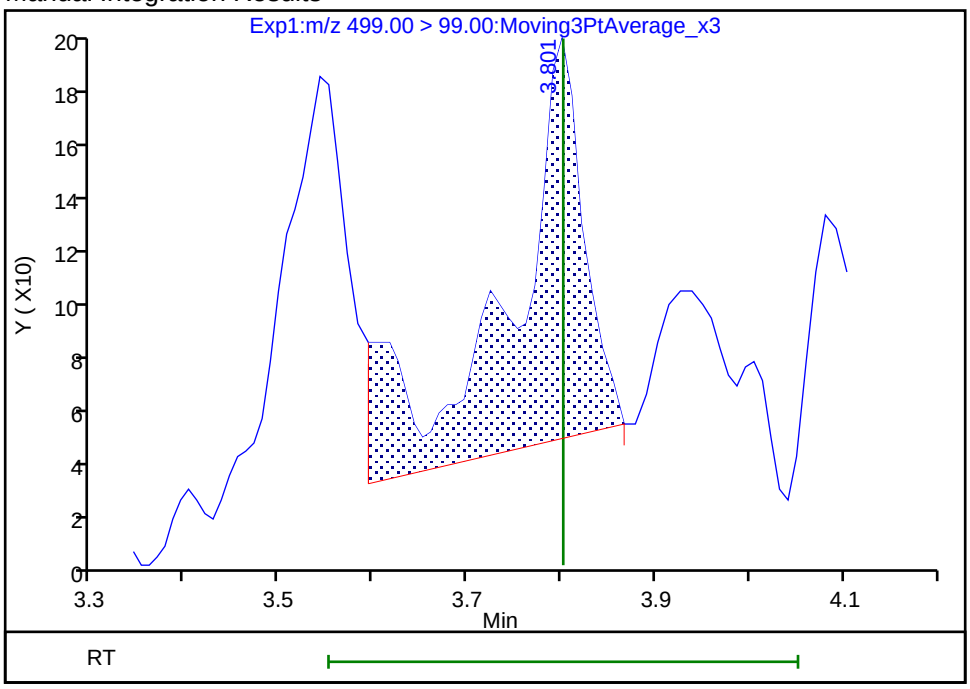
Not Detected
Expected RT: 3.80

Processing Integration Results



Manual Integration Results

RT: 3.80
Area: 829
Amount: 0.001874
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:42:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

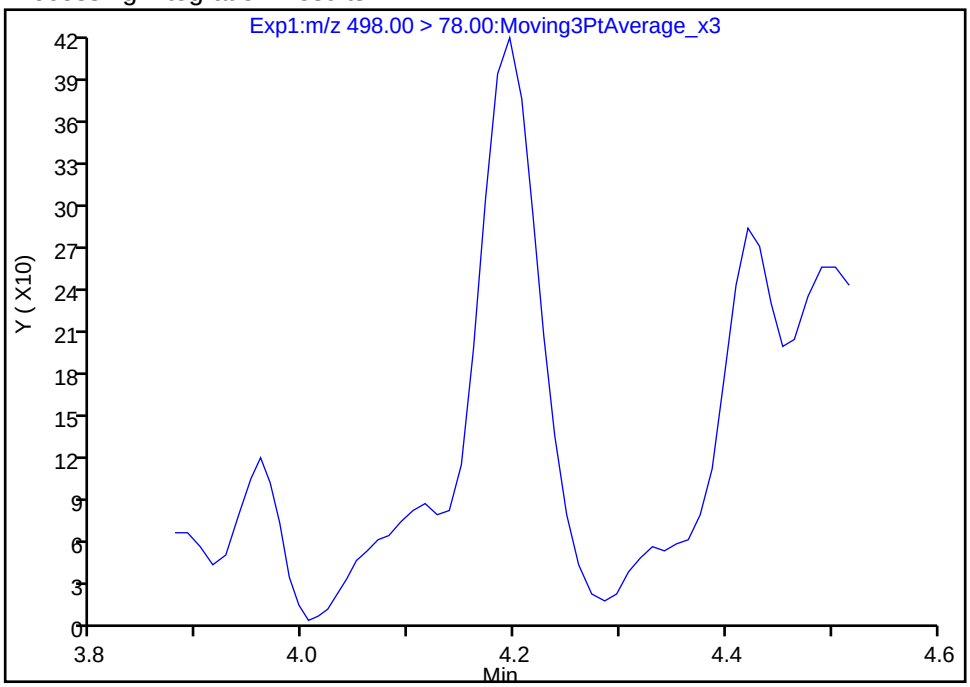
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

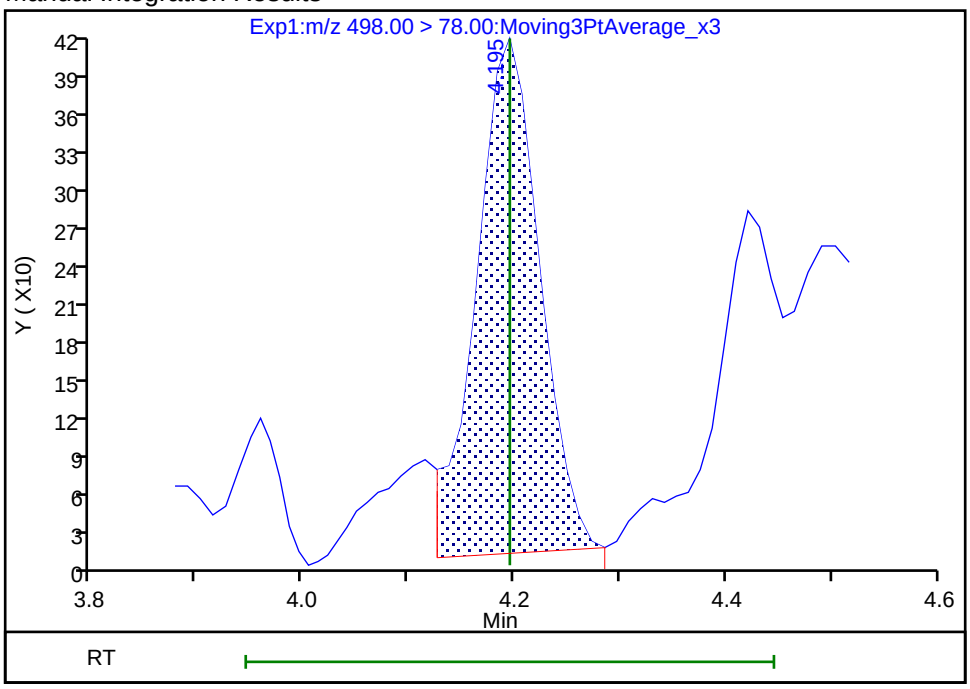
Not Detected
Expected RT: 4.20

Processing Integration Results



Manual Integration Results

RT: 4.20
Area: 1702
Amount: 0.001270
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:43:20
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

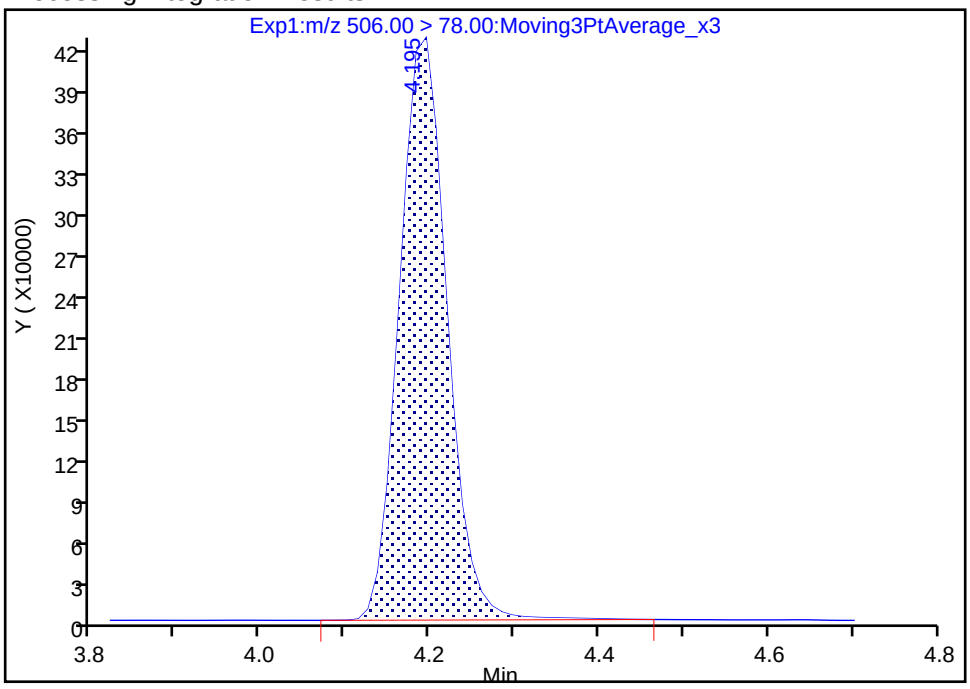
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

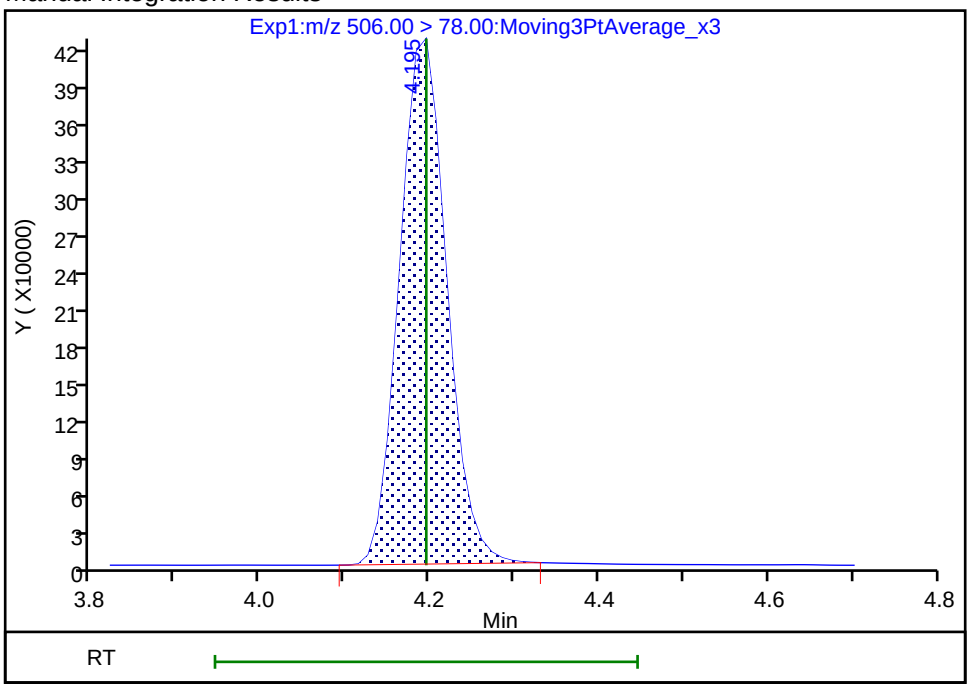
Processing Integration Results

RT: 4.20
Area: 1668401
Amount: 1.047288
Amount Units: ng/ml



Manual Integration Results

RT: 4.20
Area: 1650526
Amount: 1.036068
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:45:29

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

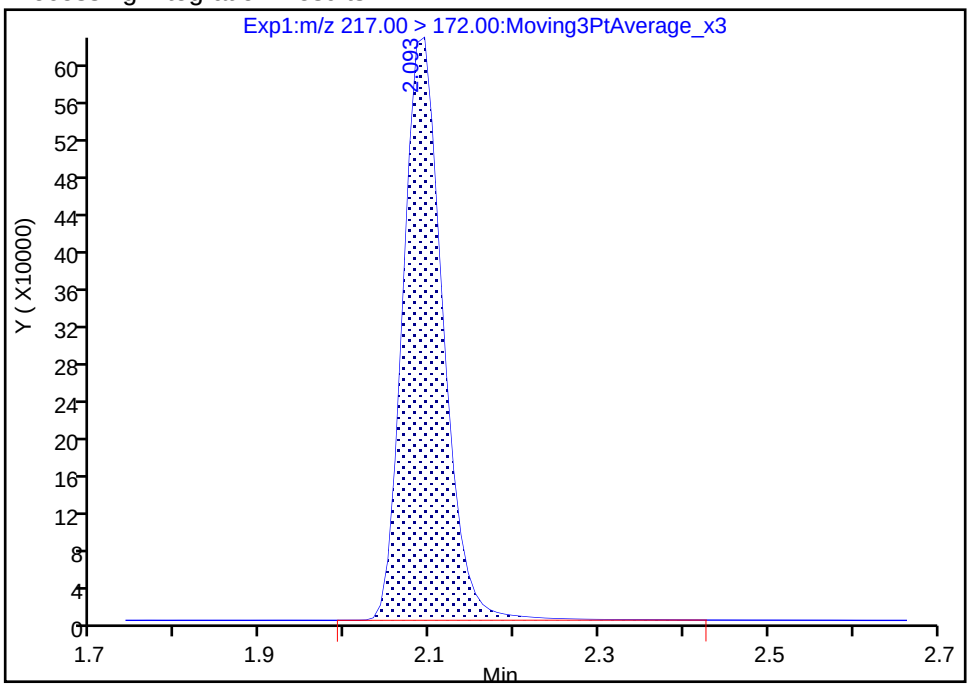
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

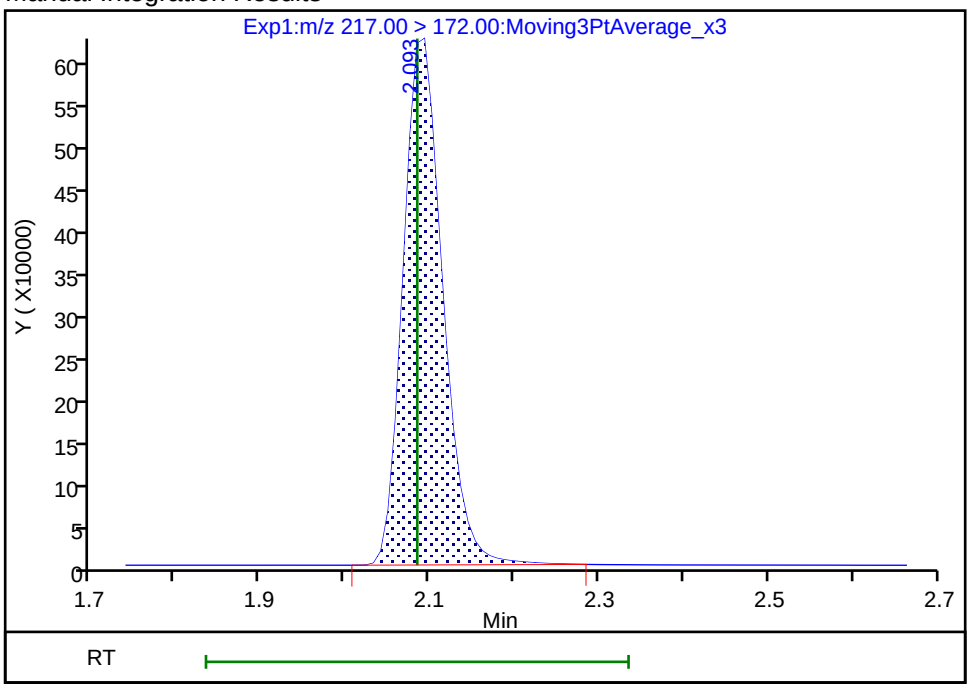
Processing Integration Results

RT: 2.09
Area: 2031469
Amount: 1.301816
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 2022683
Amount: 1.296185
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:43:46

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

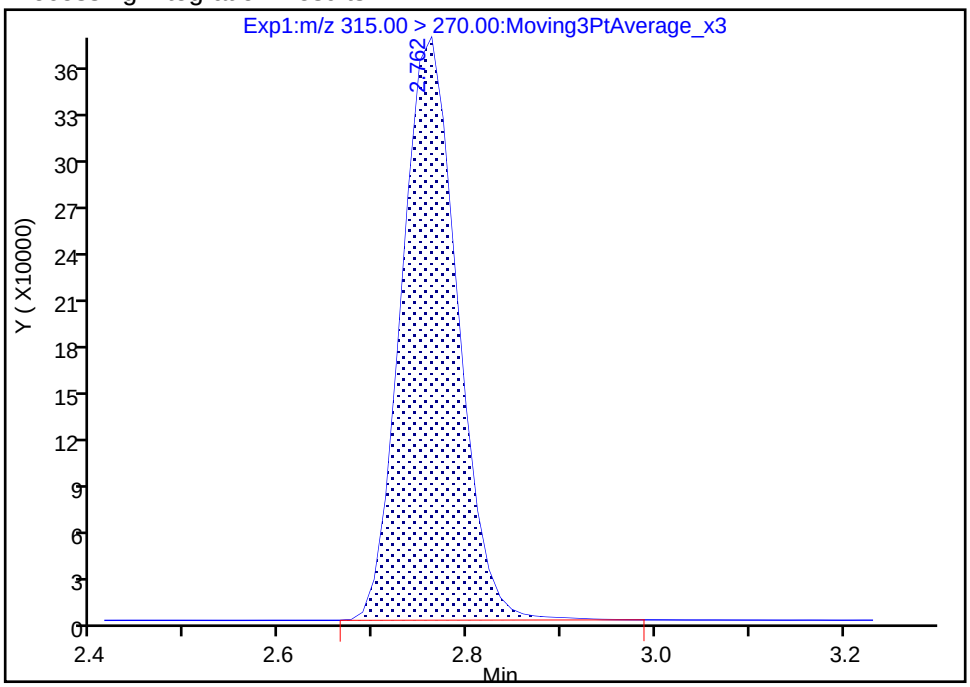
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

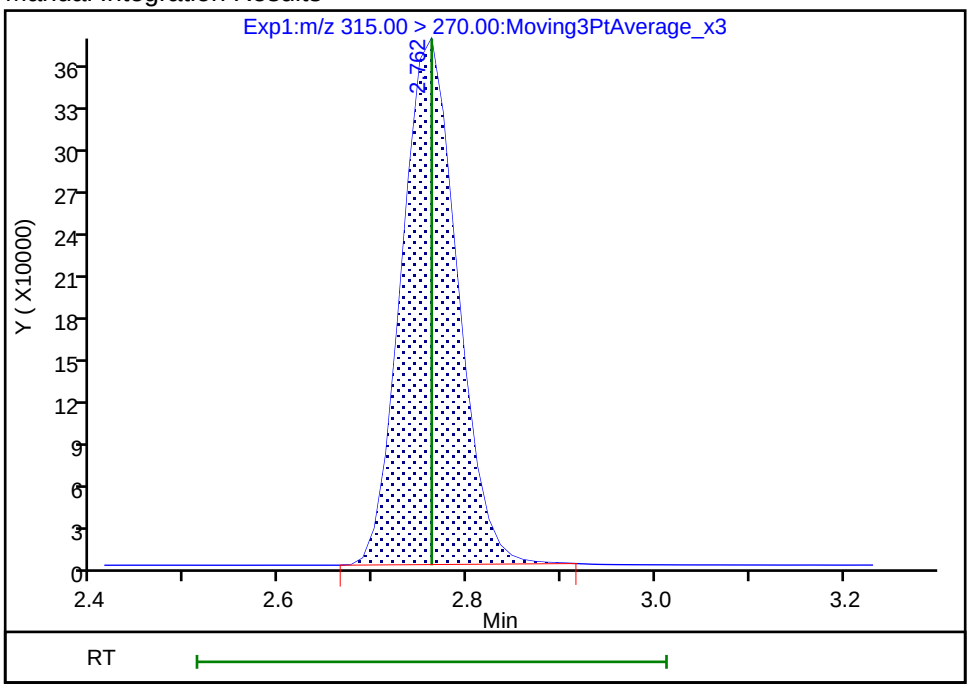
Processing Integration Results

RT: 2.76
Area: 1527637
Amount: 1.252391
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 1519484
Amount: 1.245707
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:43:57

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

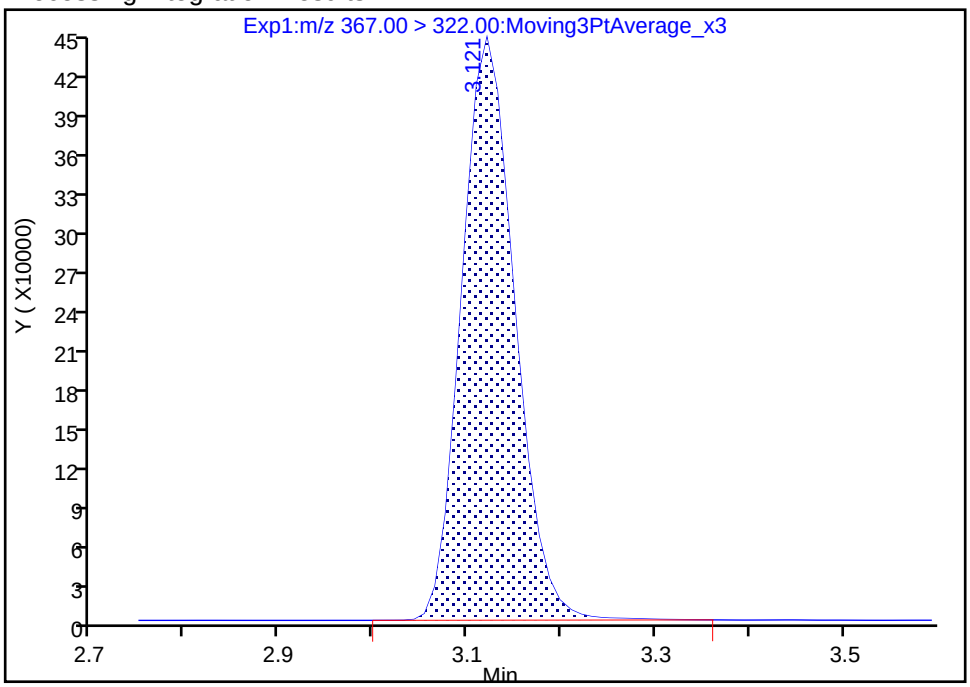
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

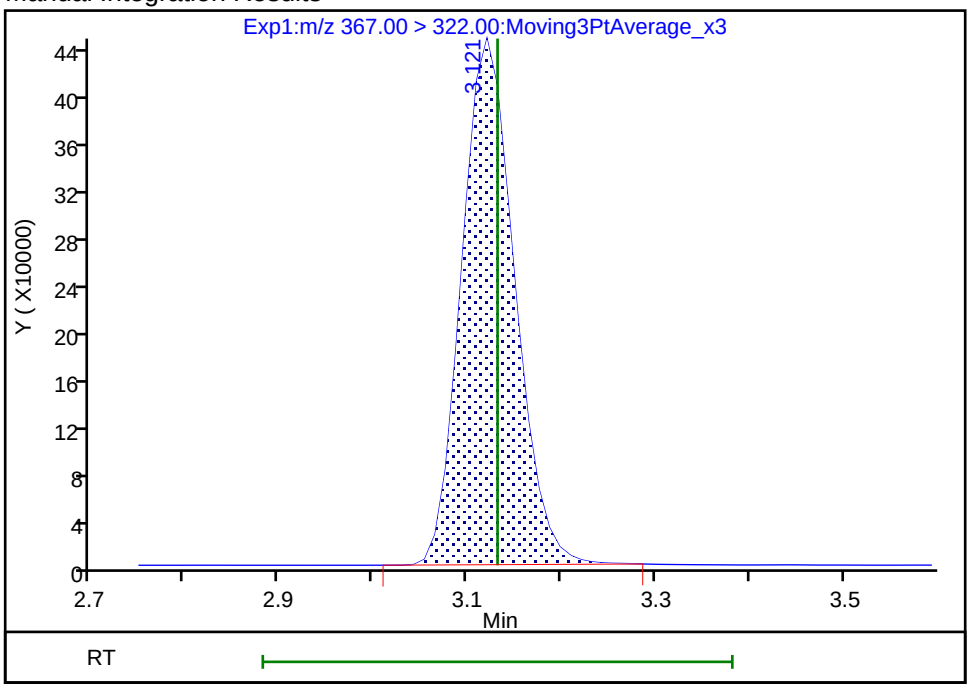
Processing Integration Results

RT: 3.12
Area: 1753738
Amount: 1.332556
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 1745995
Amount: 1.326673
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:44:12

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

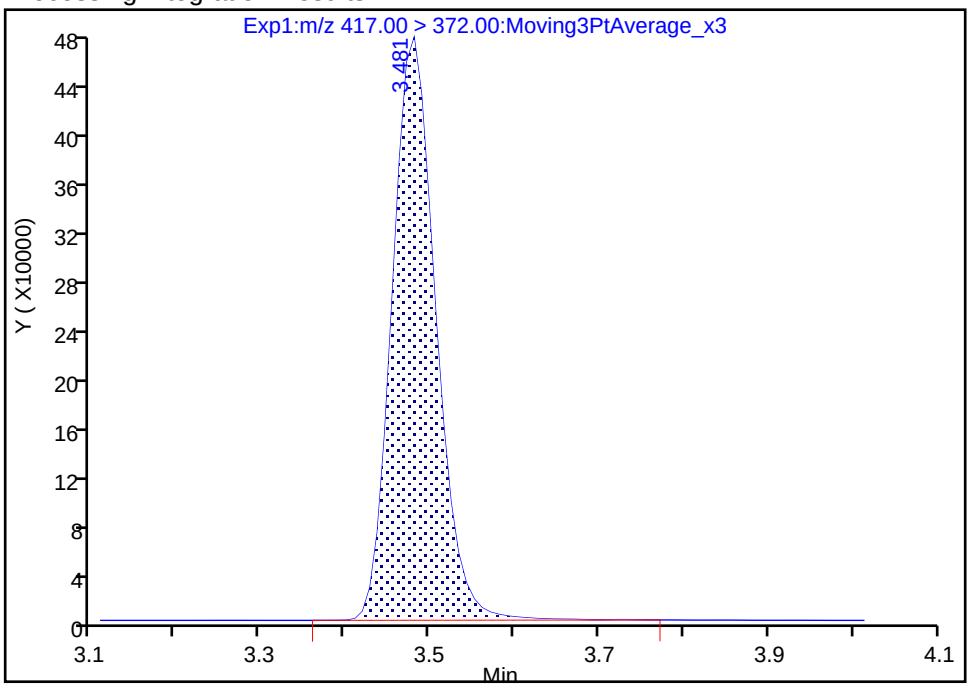
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

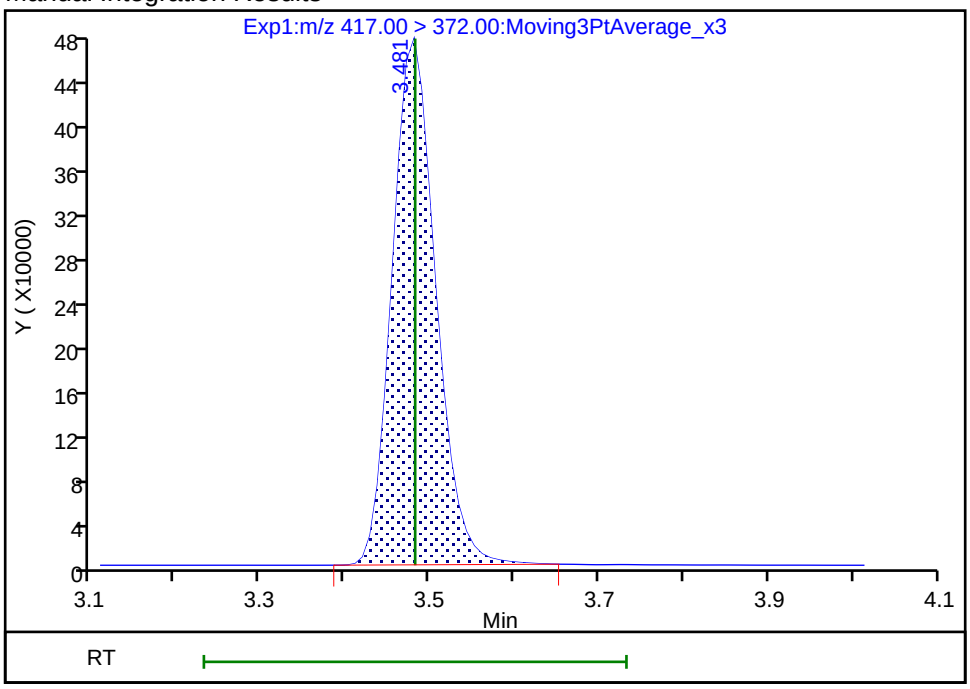
Processing Integration Results

RT: 3.48
Area: 1687749
Amount: 1.219555
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 1679913
Amount: 1.213893
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:44:31

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

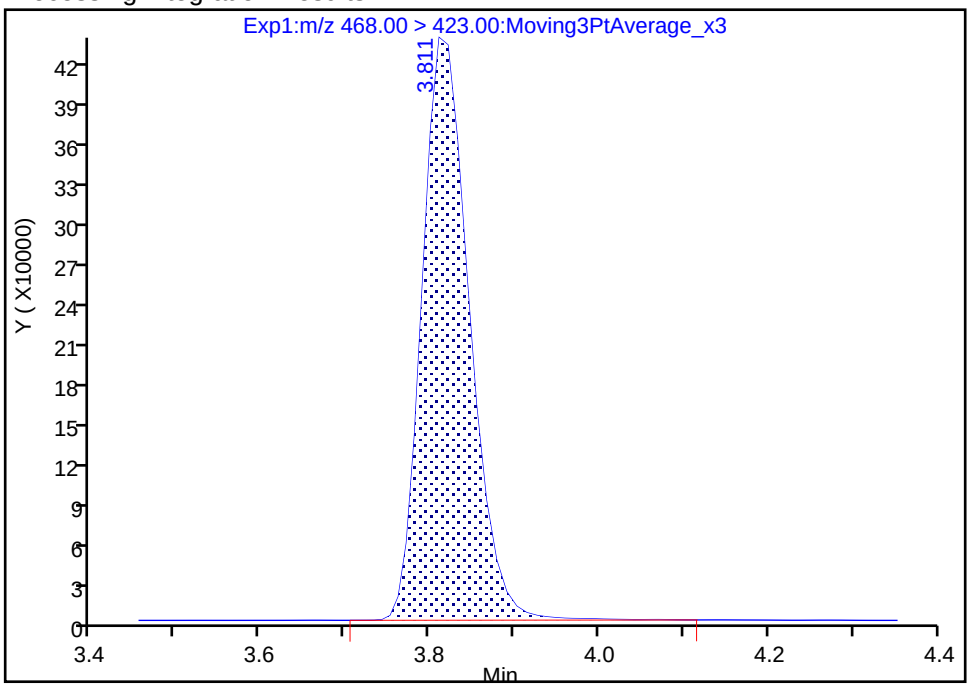
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

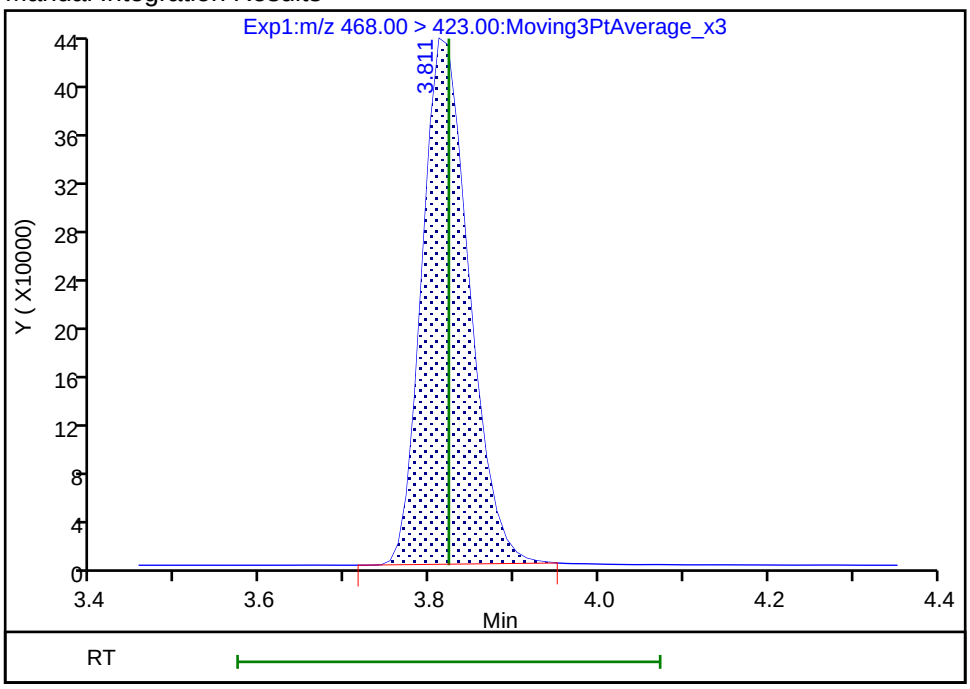
Processing Integration Results

RT: 3.81
Area: 1680045
Amount: 1.117219
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 1663095
Amount: 1.105947
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:44:45

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

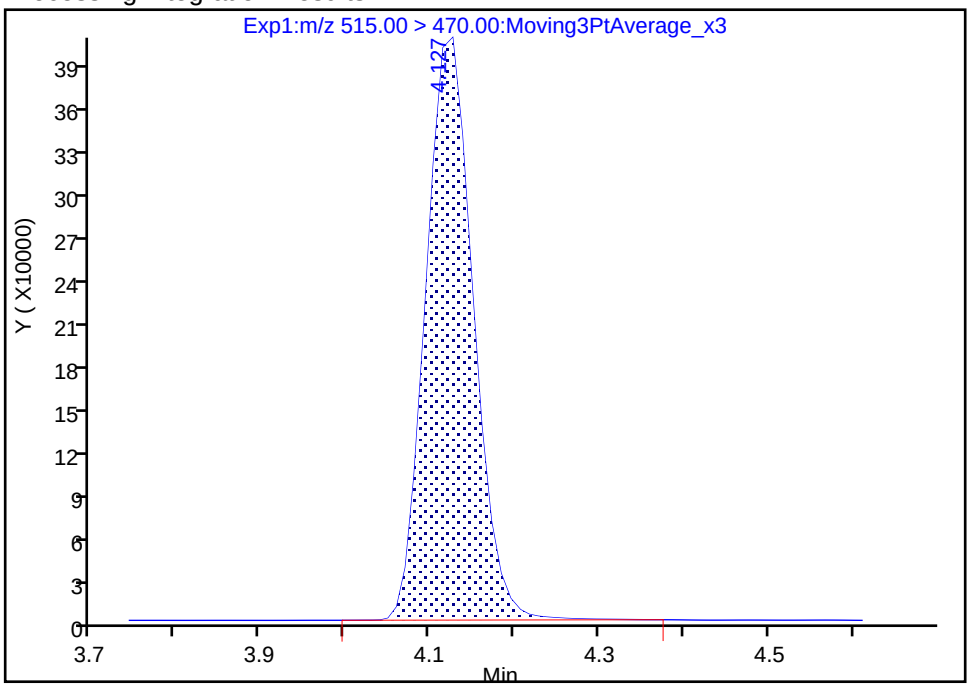
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

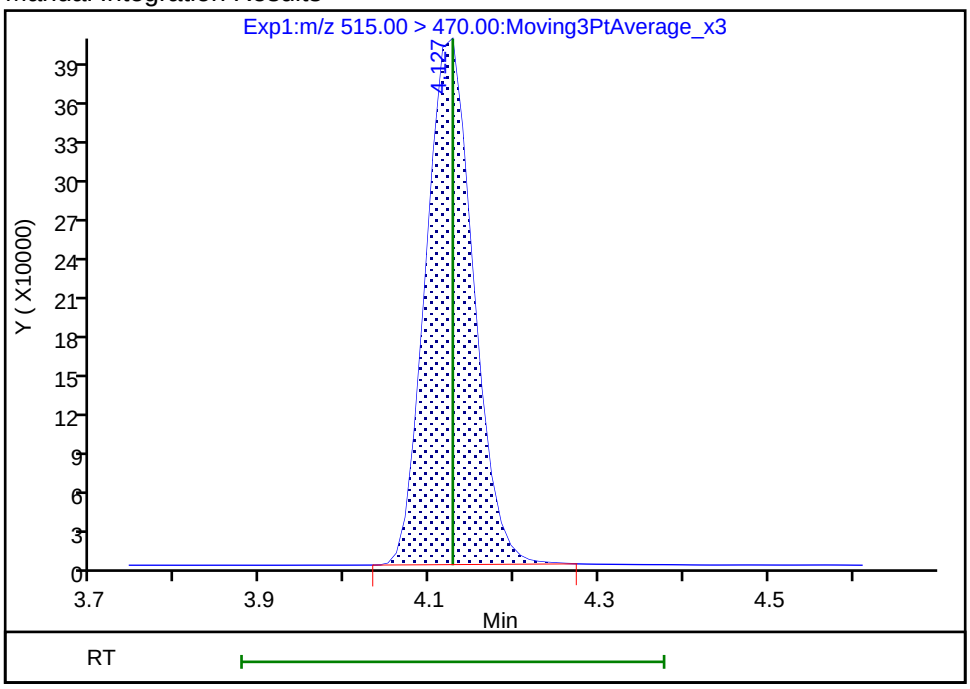
Processing Integration Results

RT: 4.13
Area: 1595889
Amount: 1.102138
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 1588766
Amount: 1.097218
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:44:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

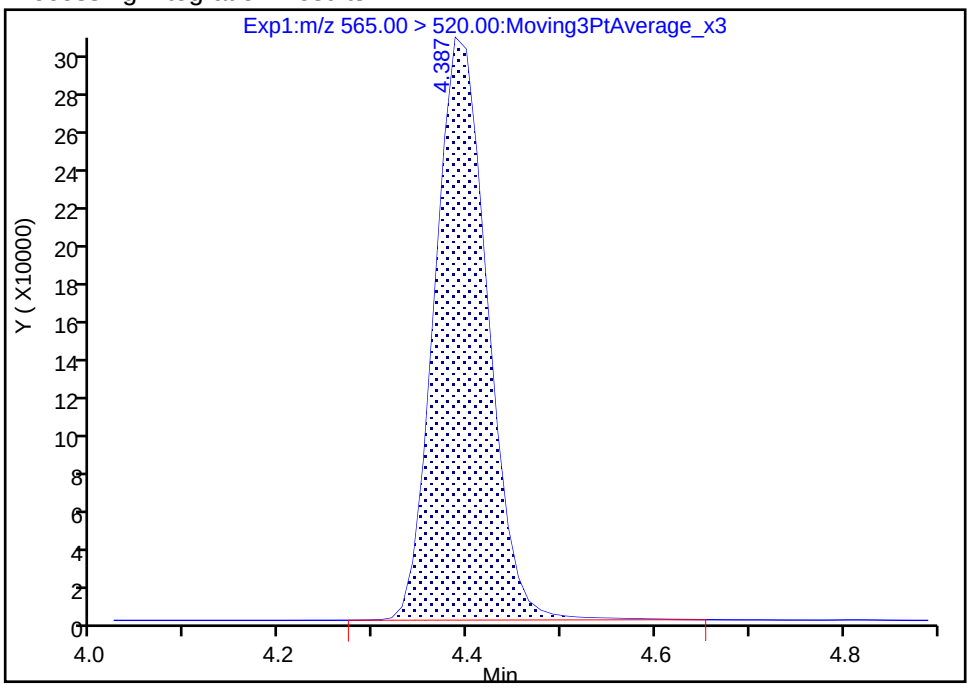
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

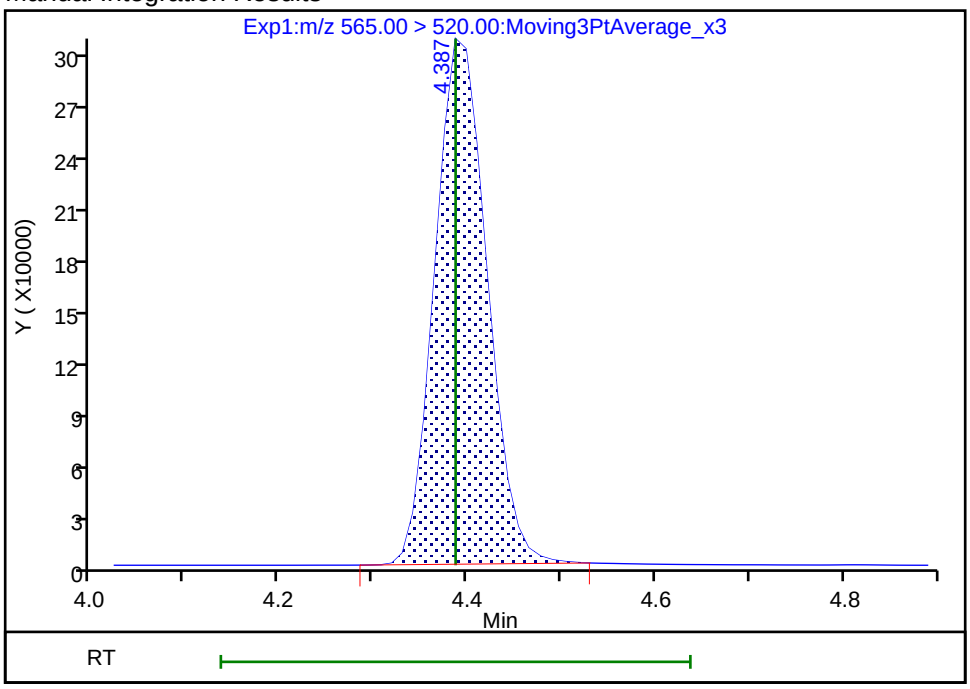
Processing Integration Results

RT: 4.39
Area: 1196337
Amount: 1.029034
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 1185224
Amount: 1.019475
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:45:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

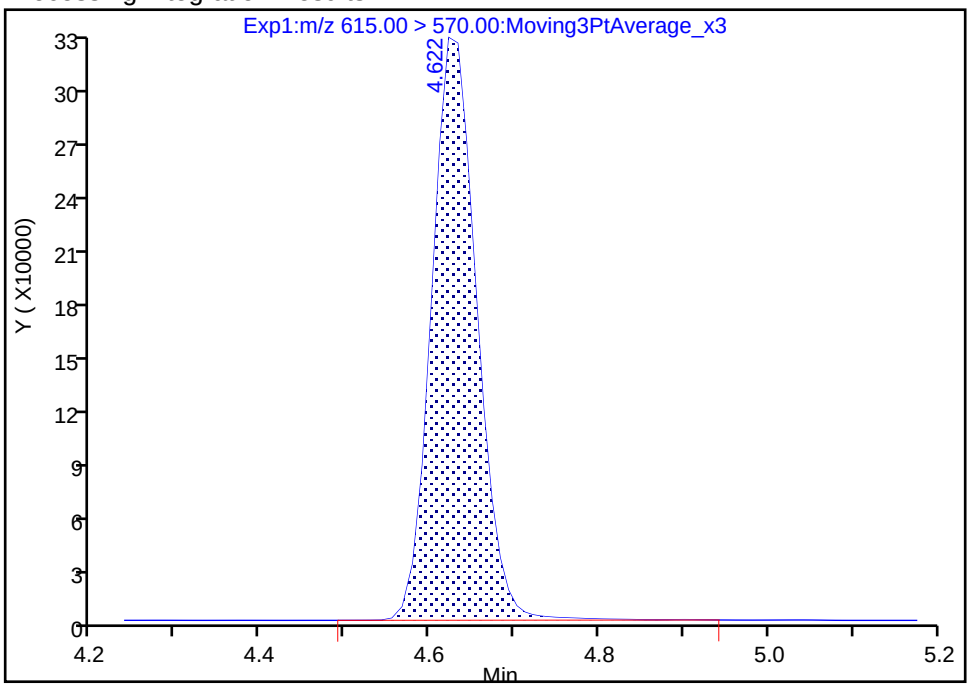
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 36 13C2 PFDoA, CAS: STL00998

Signal: 1

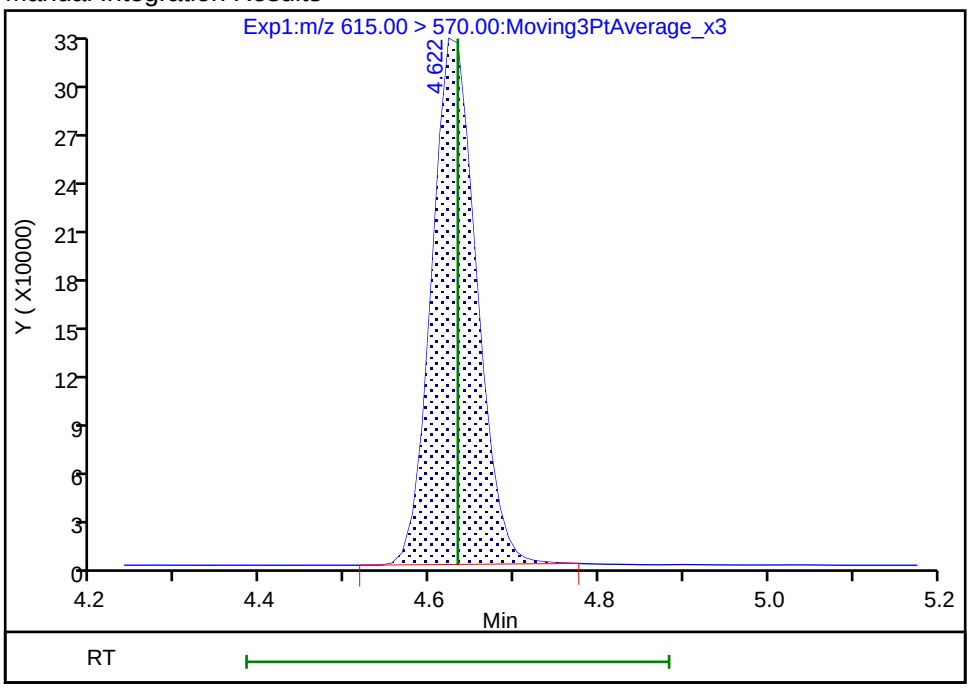
Processing Integration Results

RT: 4.62
Area: 1206049
Amount: 0.971375
Amount Units: ng/ml



Manual Integration Results

RT: 4.62
Area: 1195545
Amount: 0.962915
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:45:49

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

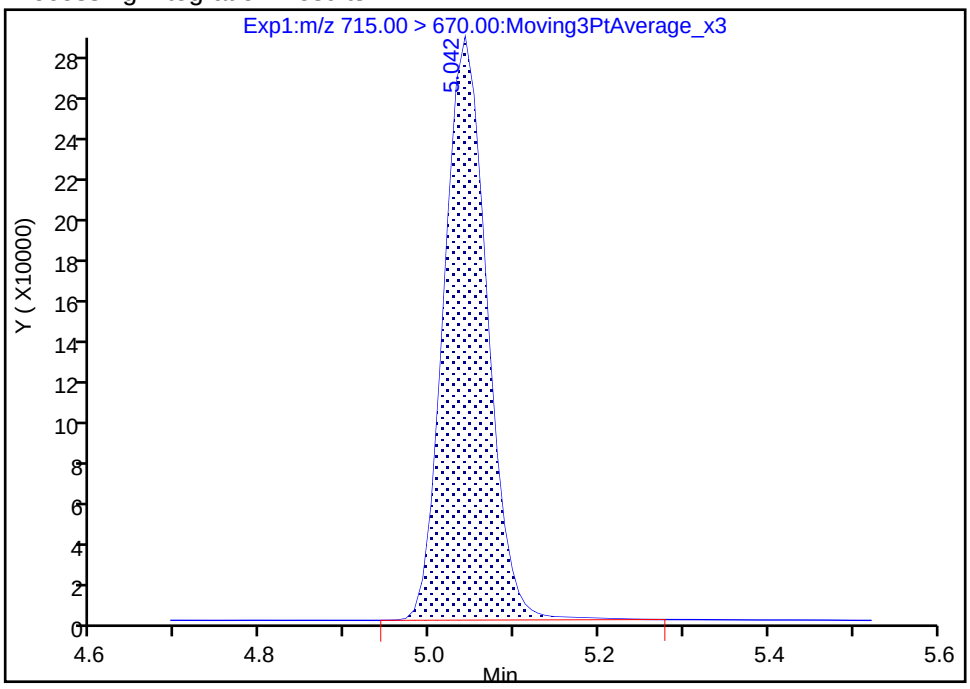
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

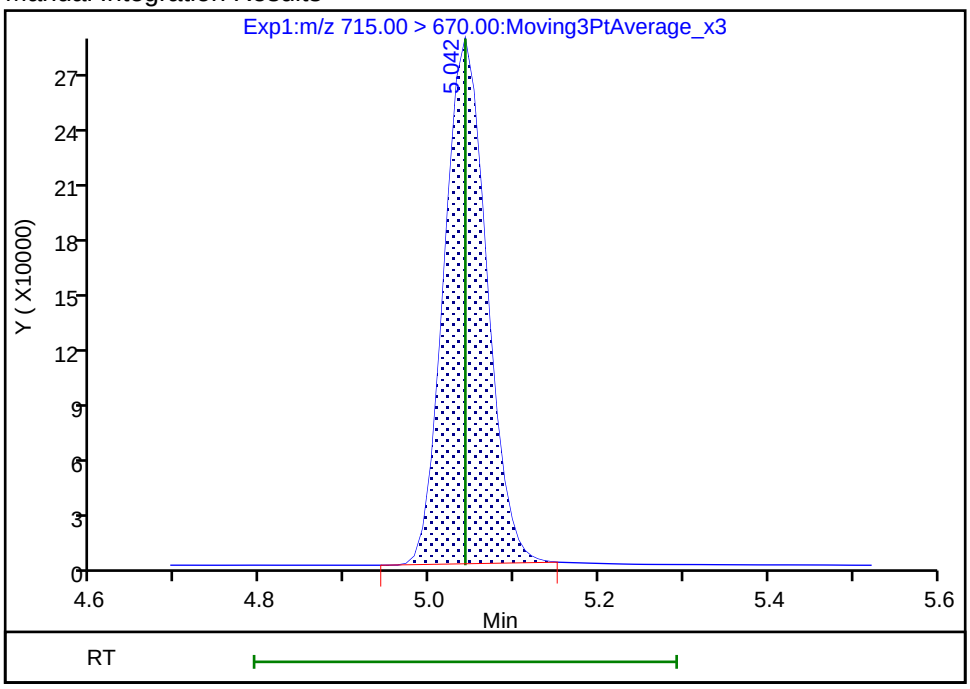
Processing Integration Results

RT: 5.04
Area: 998176
Amount: 0.983670
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 985311
Amount: 0.970992
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:45:56

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

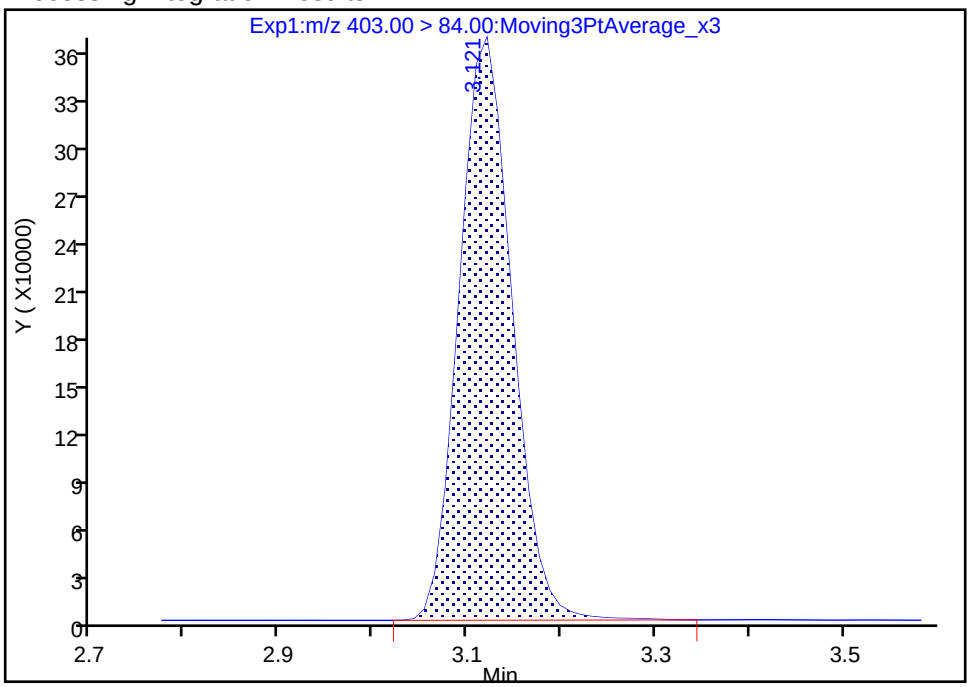
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

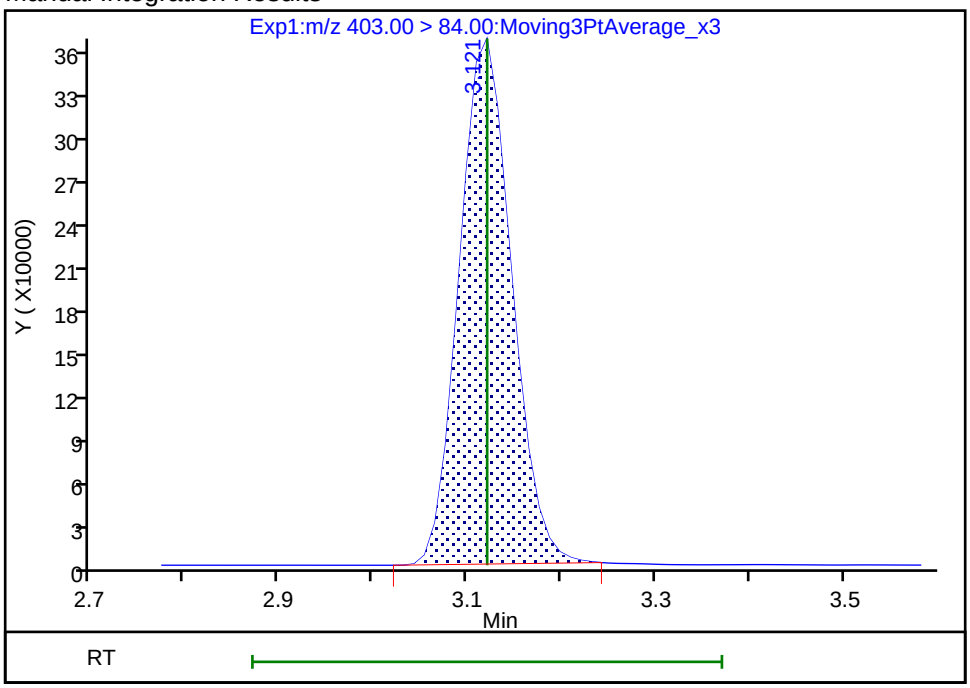
Processing Integration Results

RT: 3.12
Area: 1438797
Amount: 1.063534
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 1424149
Amount: 1.052707
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:44:05

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

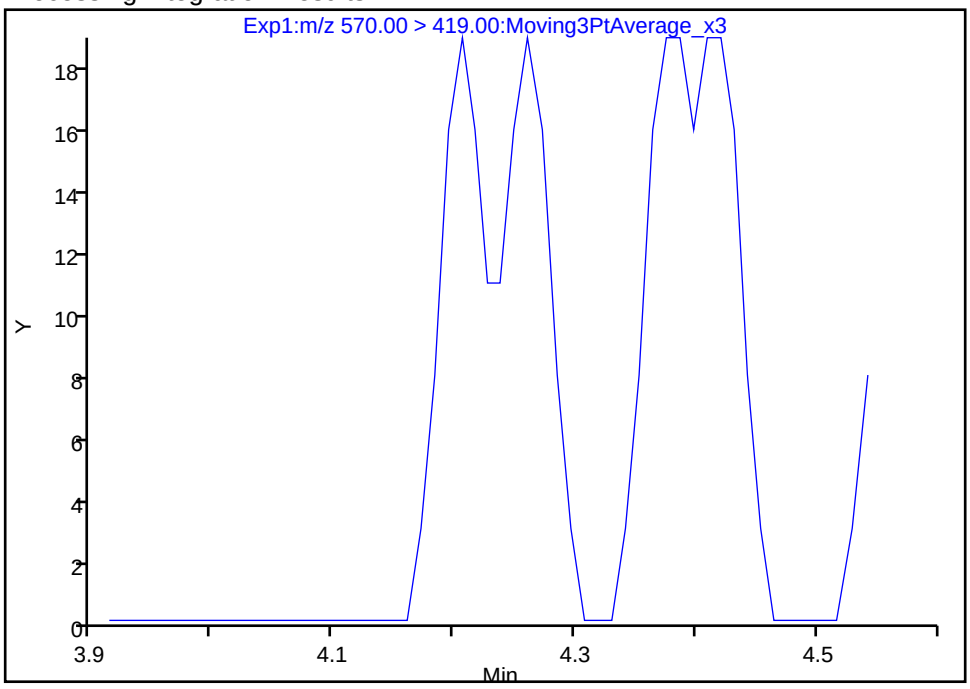
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

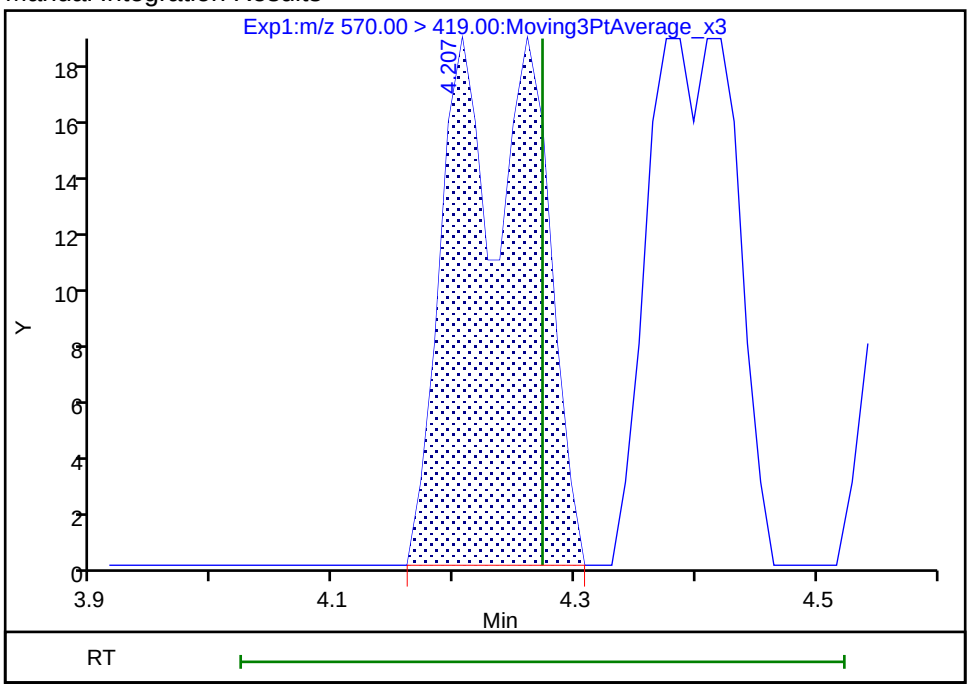
Not Detected
Expected RT: 4.27

Processing Integration Results



Manual Integration Results

RT: 4.21
Area: 98
Amount: 0.000518
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:43:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

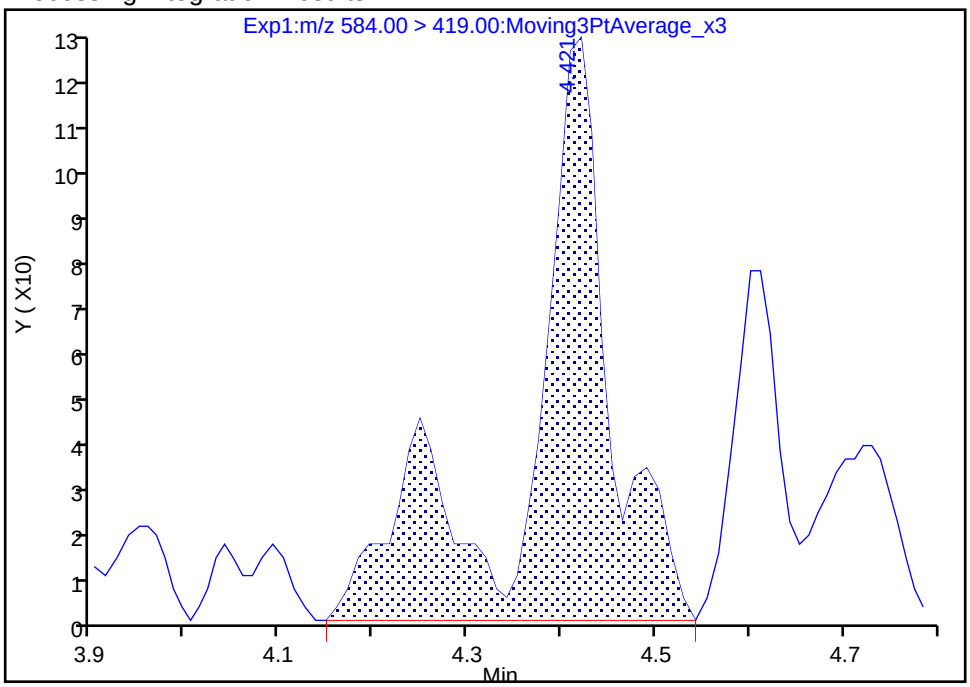
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

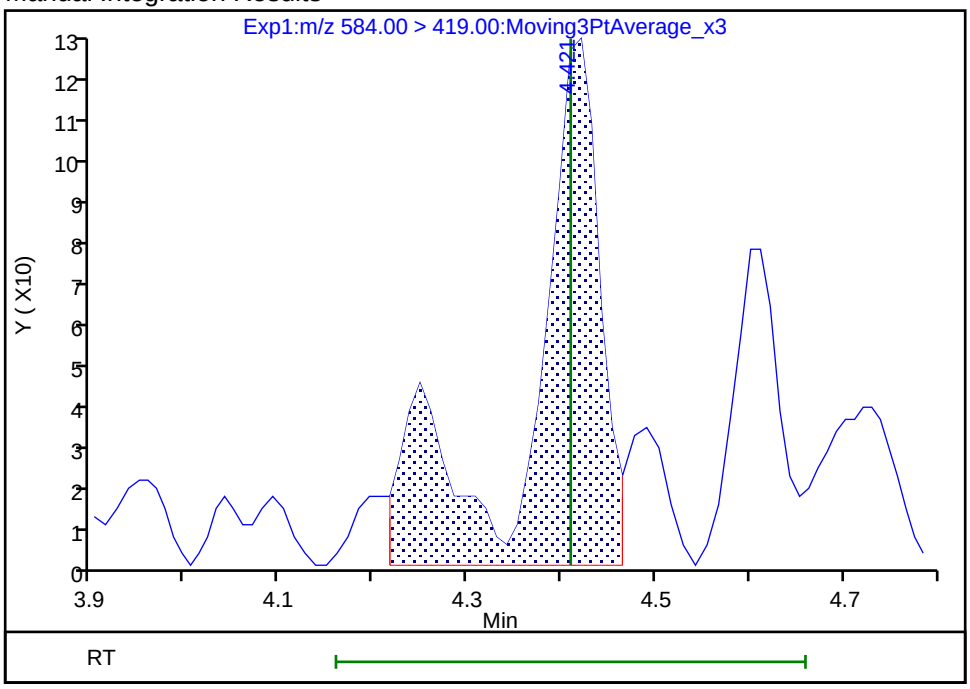
Processing Integration Results

RT: 4.42
Area: 792
Amount: 0.004113
Amount Units: ng/ml



Manual Integration Results

RT: 4.42
Area: 650
Amount: 0.003376
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:43:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

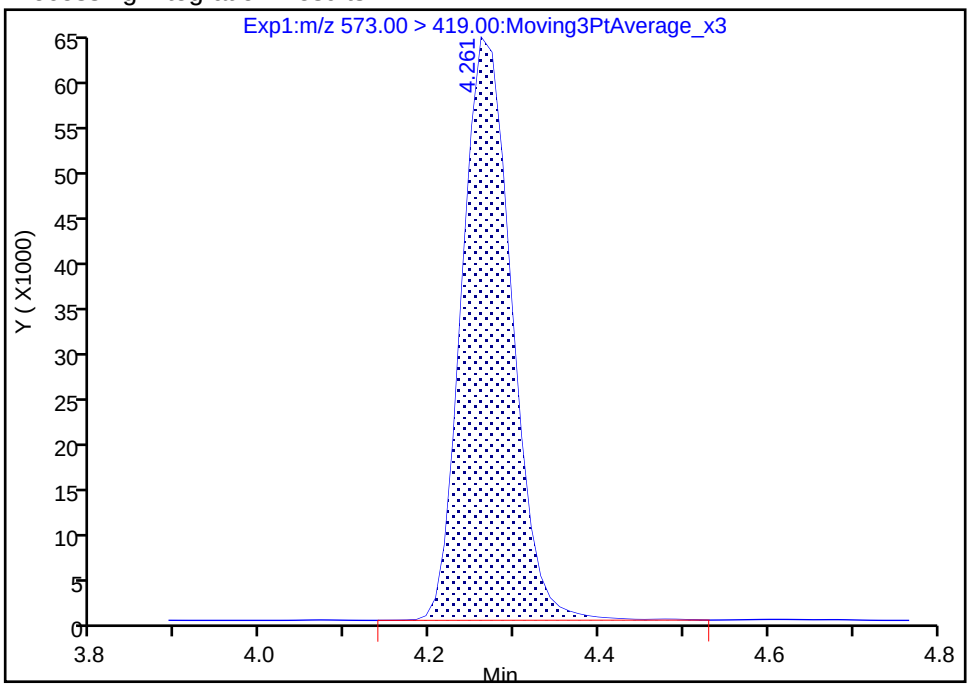
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

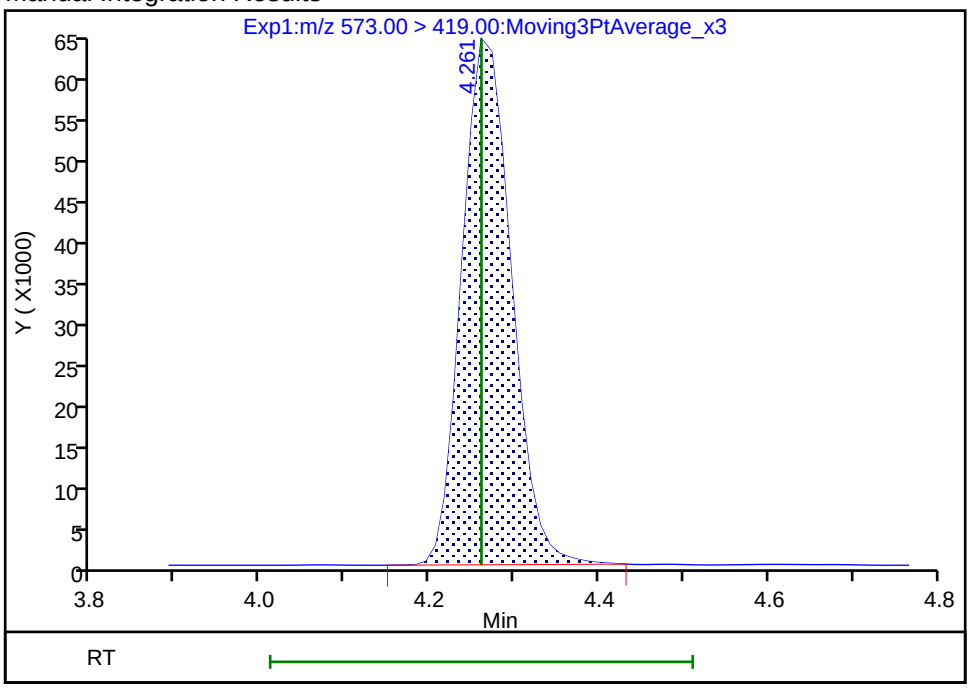
Processing Integration Results

RT: 4.26
Area: 261129
Amount: 1.358637
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 259804
Amount: 1.351743
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:45:34

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

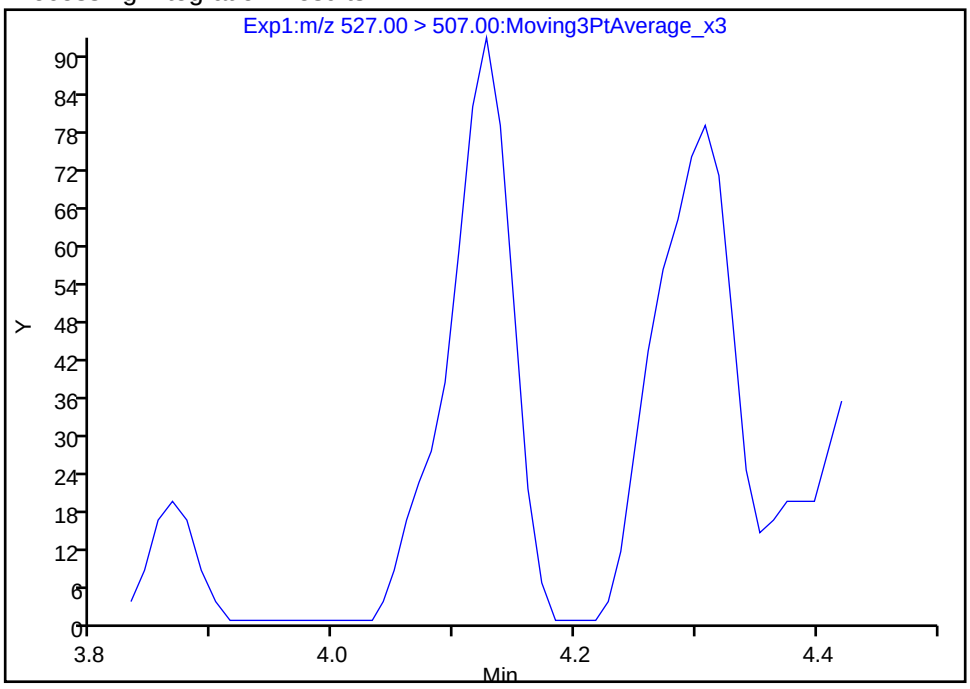
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

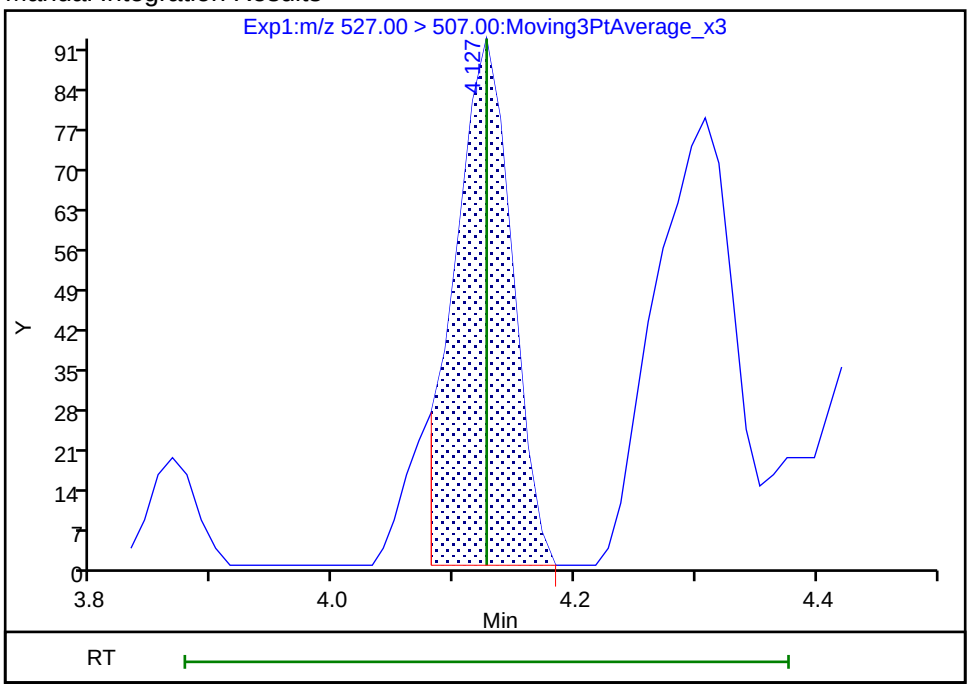
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.13
Area: 302
Amount: 0.001153
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 13:43:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

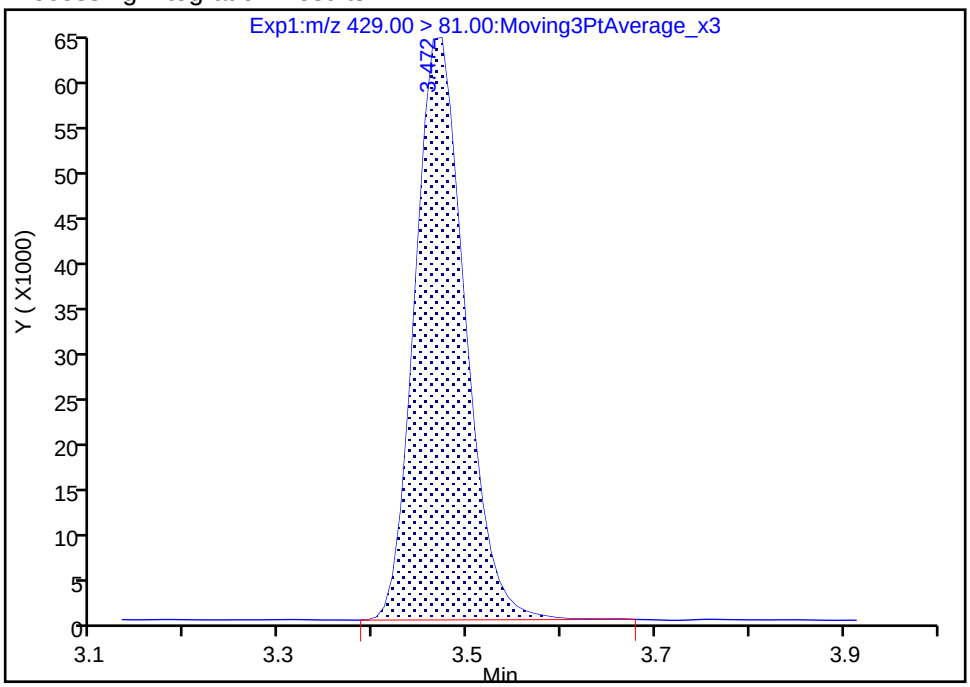
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 12 M2-6:2 FTS, CAS: STL02279

Signal: 1

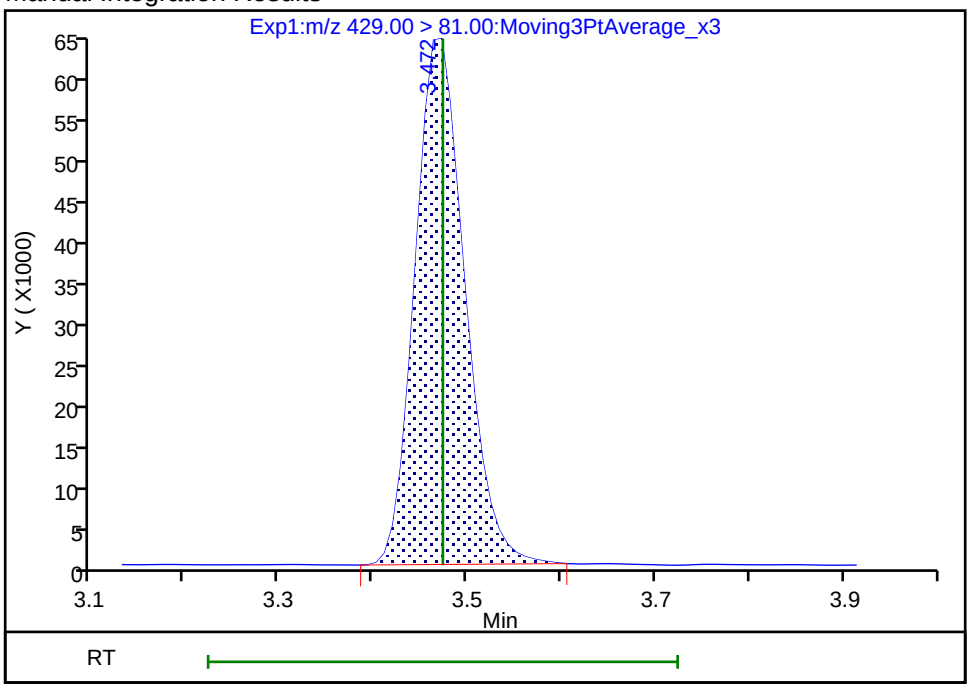
Processing Integration Results

RT: 3.47
Area: 236873
Amount: 1.073340
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 235821
Amount: 1.068573
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:44:20

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

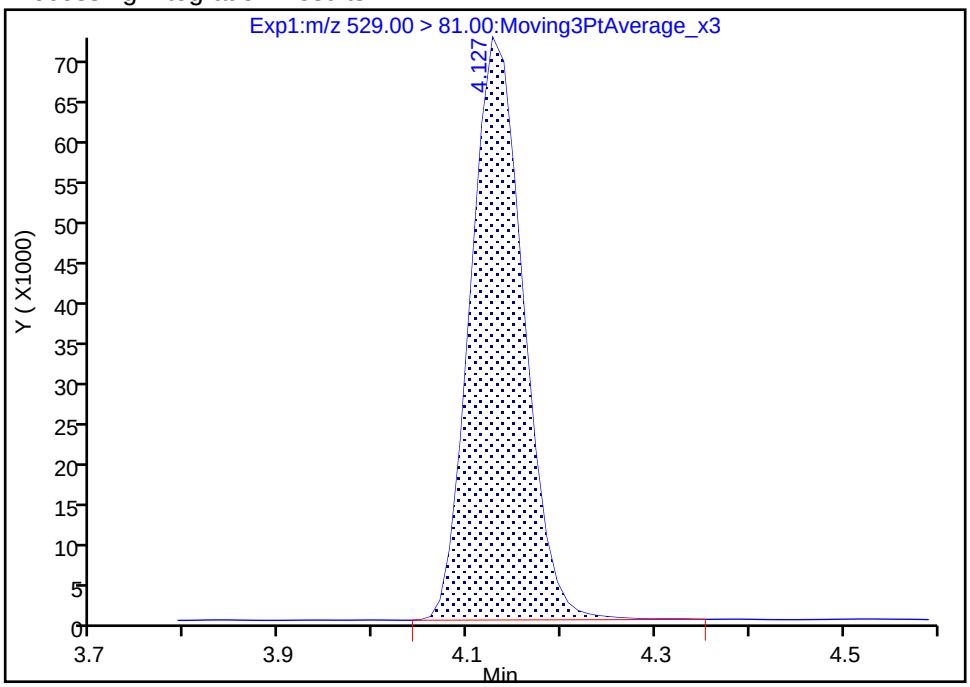
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A16.d				
Injection Date:	13-Jun-2022 19:11:37	Instrument ID:	LC812		
Lims ID:	480-198722-C-3-A	Lab Sample ID:	200-198722-3		
Client ID:	MW-1B				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 26 M2-8:2 FTS, CAS: STL02280

Signal: 1

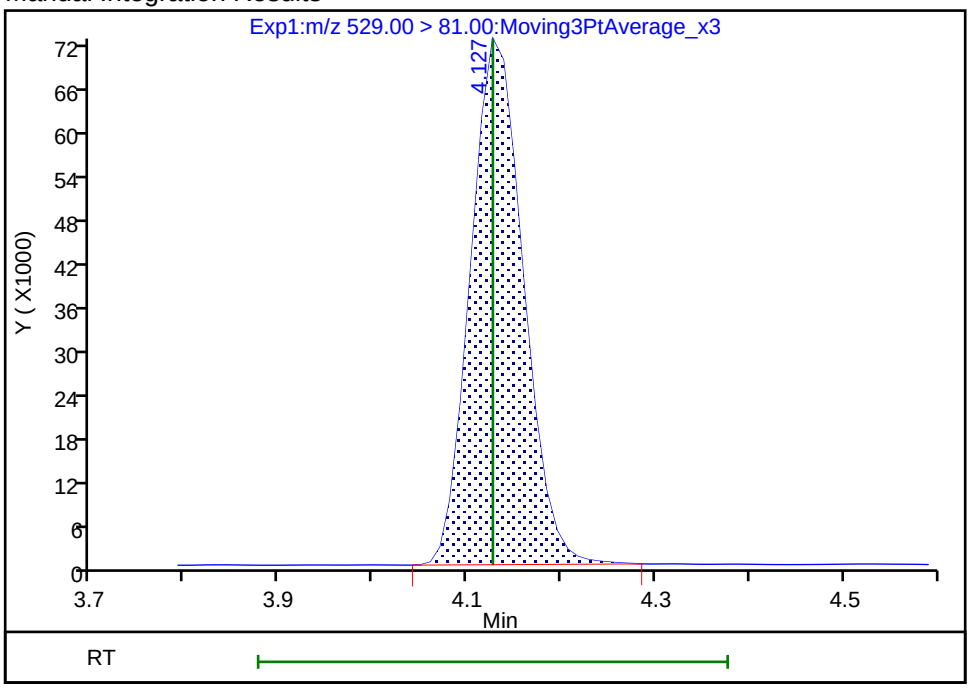
Processing Integration Results

RT: 4.13
Area: 282669
Amount: 1.066432
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 281829
Amount: 1.063263
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:45:22

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-1A Lab Sample ID: 480-198818-1

Matrix: Water Lab File ID: PA220613A18.d

Analysis Method: 537 (modified) Date Collected: 06/08/2022 10:30

Extraction Method: 3535 Date Extracted: 06/13/2022 08:55

Sample wt/vol: 272.4(mL) Date Analyzed: 06/13/2022 19:27

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 180744 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
375-22-4	Perfluorobutanoic acid (PFBA)	ND		4.6	
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.8	
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.8	
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.8	
335-67-1	Perfluorooctanoic acid (PFOA)	2.5		1.8	
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.8	
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.8	
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.8	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.8	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.8	
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.8	
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.6	
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.6	
27619-97-2	6:2 FTS	ND		4.6	
39108-34-4	8:2 FTS	ND		1.8	

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-1A Lab Sample ID: 480-198818-1

Matrix: Water Lab File ID: PA220613A18.d

Analysis Method: 537 (modified) Date Collected: 06/08/2022 10:30

Extraction Method: 3535 Date Extracted: 06/13/2022 08:55

Sample wt/vol: 272.4(mL) Date Analyzed: 06/13/2022 19:27

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 180744 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	84		50-150
STL00992	13C4 PFBA	111		50-150
STL01893	13C5 PFPeA	112		50-150
STL00993	13C2 PFHxA	102		50-150
STL01892	13C4 PFHpA	104		50-150
STL00990	13C4 PFOA	99		50-150
STL00995	13C5 PFNA	97		50-150
STL00996	13C2 PFDA	96		50-150
STL00997	13C2 PFUnA	94		50-150
STL00998	13C2 PFDoA	91		50-150
STL02116	13C2 PFTeDA	86		50-150
STL02337	13C3 PFBS	94		50-150
STL00994	18O2 PFHxS	91		50-150
STL00991	13C4 PFOS	85		50-150
STL02118	d3-NMeFOSAA	116		50-150
STL02117	d5-NEtFOSAA	114		50-150
STL02279	M2-6:2 FTS	92		50-150
STL02280	M2-8:2 FTS	91		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d
Lims ID: 480-198818-D-1-A
Client ID: MW-1A
Sample Type: Client
Inject. Date: 13-Jun-2022 19:27:59 ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-198818-D-1-A
Misc. Info.: 200-0051257-018 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 14-Jun-2022 14:35:47 Calib Date: 05-May-2022 15:54:29
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1636

First Level Reviewer: khanphomeea Date: 14-Jun-2022 11:42:42
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	2.085	2.085	0.0	0.599	2106650	1.39		111	8175	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.093	-0.008	1.000	35687	0.0224			4.3	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.400	0.0	0.689	1624640	1.40		112	3371	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.400	2.400	0.0	1.000	15300	0.0116			0.5	
D 47 13C3 PFBS										
301.90 > 80.00	2.413	2.427	-0.014	0.693	1834877	1.09		93.9	152337	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.413	2.427	-0.014	1.000	8083	0.004698	Target=2.15		4.0	M
298.90 > 99.00	2.413	2.427	-0.014	1.000	5033		1.61(1.07-3.22)		2.2	M
D 7 13C2 PFHxA										M
315.00 > 270.00	2.750	2.762	-0.012	0.790	1518430	1.28		102	2500	M
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.762	2.762	0.0	1.004	15896	0.0121	Target=12.59		2.7	M
313.00 > 119.00	2.737	2.762	-0.025	0.996	894		17.78(6.29-18.88)		1.2	M
D 11 18O2 PFHxS										M
403.00 > 84.00	3.121	3.121	0.0	0.896	1408262	1.07		90.6	1617	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.132	3.121	0.011	1.004	7537	0.005726	Target=3.53		13.3	M
399.00 > 99.00	3.121	3.121	0.0	1.000	2059		3.66(1.76-5.29)		2.5	M
D 9 13C4 PFHpA										M
367.00 > 322.00	3.132	3.132	0.0	0.899	1663268	1.30		104	1942	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.132	3.132	0.0	1.000	25338	0.0188	Target=3.75		6.1	M
363.00 > 169.00	3.132	3.132	0.0	1.000	5862		4.32(1.87-5.62)		9.9	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										M
429.00 > 81.00	3.474	3.474	0.0	0.997	235250	1.10		92.4	492	M
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.465	3.474	-0.009	0.997	3305	-0.0166			1.9	
* 62 13C2 PFOA										
415.00 > 370.00	3.482	3.482	0.0		1785789	1.25			2150	
D 14 13C4 PFOA										M
417.00 > 372.00	3.482	3.482	0.0	1.000	1670577	1.24		99.4	1619	M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.482	3.482	0.0	1.000	101352	0.0677	Target=2.68		9.0	M
413.00 > 169.00	3.482	3.482	0.0	1.000	38091		2.66(1.34-4.02)		89.8	M
D 18 13C4 PFOS										
503.00 > 80.00	3.802	3.802	0.0	1.092	1048145	1.01		84.9	3330	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.802	3.802	0.0	1.000	8658	0.009244	Target=4.47		8.9	M
499.00 > 99.00	3.802	3.802	0.0	1.000	2750		3.15(2.24-6.71)		8.6	M
D 19 13C5 PFNA										
468.00 > 423.00	3.822	3.822	0.0	1.098	1768664	1.21		96.8	3137	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.812	3.822	-0.010	0.997	16223	0.0119	Target=7.74		3.5	M
463.00 > 169.00	3.802	3.822	-0.020	0.995	1915		8.47(3.87-11.61)		15.3	M
D 23 13C2 PFDA										
515.00 > 470.00	4.127	4.127	0.0	1.185	1690682	1.20		96.1	4647	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.127	4.127	0.0	1.000	47531	0.0330	Target=9.31		19.4	M
513.00 > 169.00	4.115	4.127	-0.012	0.997	5195		9.15(4.65-13.96)		18.3	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.127	4.127	0.0	1.000	584	0.002235			9.7	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.127	4.127	0.0	1.185	281074	1.09		91.1	769	
D 21 13C8 FOSA										M
506.00 > 78.00	4.196	4.195	0.001	1.205	1633735	1.06		84.4	2631	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.196	4.195	0.001	1.000	8433	0.006359			17.6	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.261	4.261	0.0	1.224	271940	1.46		116	1359	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.273	4.273	0.0	1.003	1776	0.008977			10.2	M
29 Perfluorodecanesulfonic acid										RM
599.00 > 80.00	4.365	4.365	0.0	1.148	565	0.001044	Target=2.56		6.6	RM
599.00 > 99.00	4.365	4.365	0.0	1.148	674		0.84(1.28-3.84)		4.0	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.398	4.387	0.011	1.003	10864	0.0099	Target=9.41		5.2	M
563.00 > 169.00	4.398	4.387	0.011	1.003	1114		9.75(4.70-14.11)		17.1	M
D 30 13C2 PFUnA										M
565.00 > 520.00	4.387	4.387	0.0	1.260	1324945	1.17		93.8	2132	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.398	4.398	0.0	1.263	260489	1.43		114	1201	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.410	4.410	0.0	1.003	2145	0.0110			19.3	M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.632	4.622	0.010	1.000	22871	0.0202	Target=6.95		3.7	M
613.00 > 169.00	4.632	4.622	0.010	1.000	3224		7.09(3.48-10.43)		37.6	M
D 36 13C2 PFDoA										M
615.00 > 570.00	4.632	4.633	-0.001	1.330	1370756	1.14		90.9	2200	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.848	4.848	0.0	1.046	3850	0.003997	Target=4.44		0.7	
663.00 > 169.00	4.848	4.848	0.0	1.046	646		5.96(2.22-6.66)		8.8	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.051	5.032	0.019	1.002	674	0.005116	Target=0.96		13.5	M
713.00 > 219.00	5.031	5.032	-0.001	0.998	750		0.90(0.48-1.44)		13.7	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.041	5.042	-0.001	1.448	1065865	1.08		86.5	2346	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Report Date: 14-Jun-2022 14:35:56 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d

Injection Date: 13-Jun-2022 19:27:59 Instrument ID: LC812

Lims ID: 480-198818-D-1-A Lab Sample ID: 200-198818-1

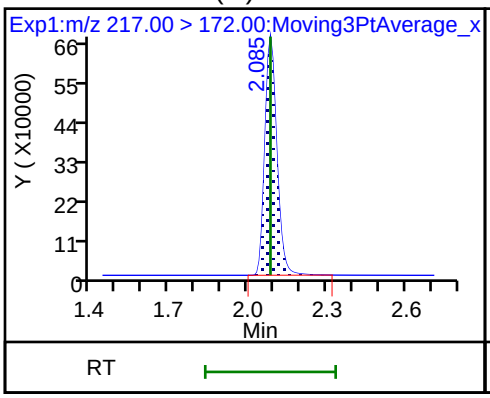
Client ID: MW-1A

Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18

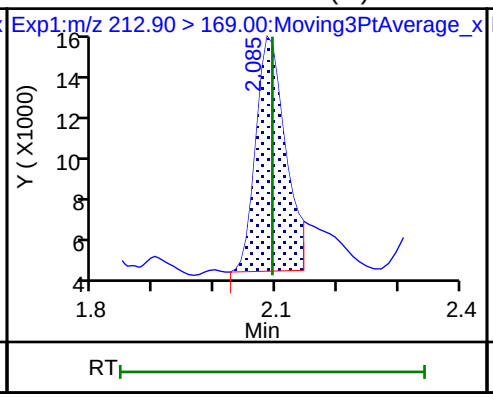
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

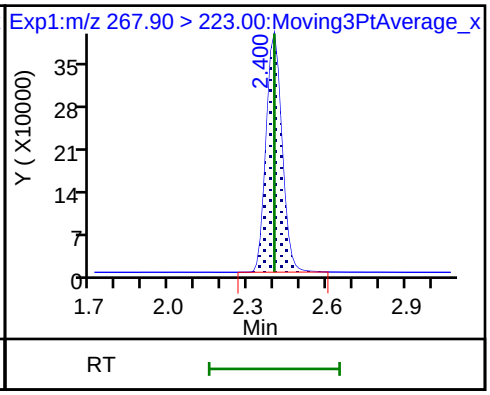
D 1 13C4 PFBA (M)



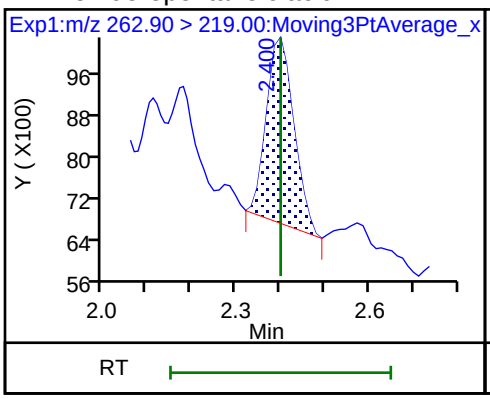
2 Perfluorobutanoic acid (M)



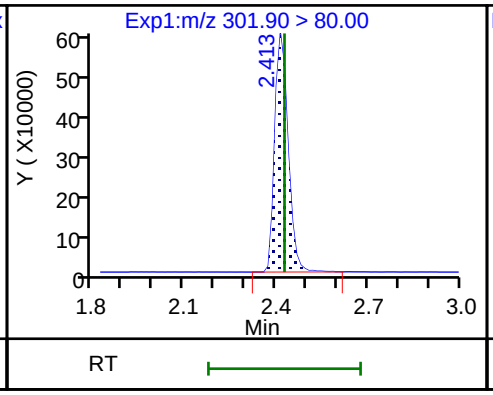
D 3 13C5 PFPeA



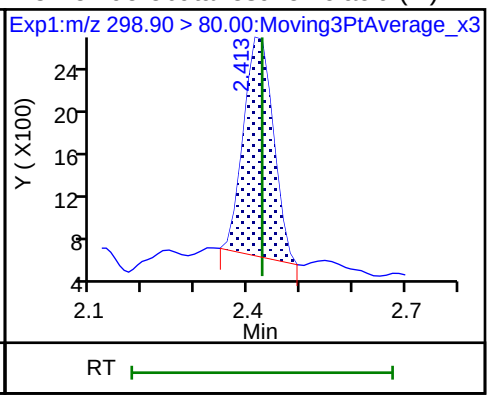
4 Perfluoropentanoic acid



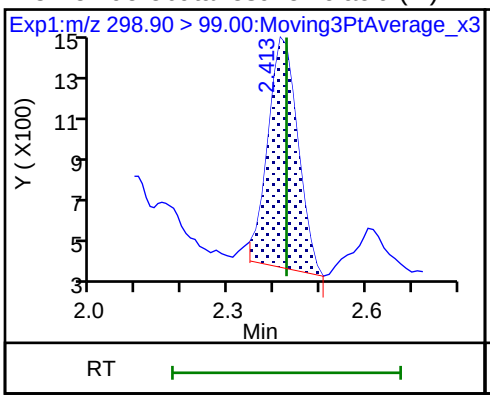
D 47 13C3 PFBS



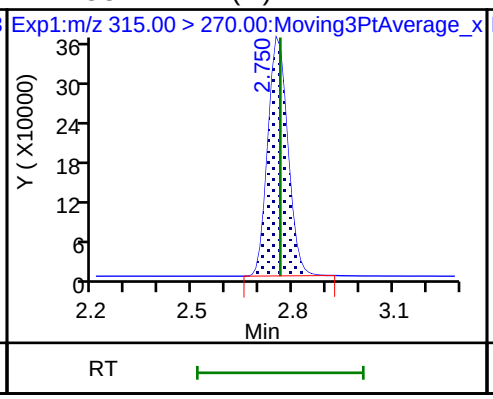
5 Perfluorobutanesulfonic acid (M)



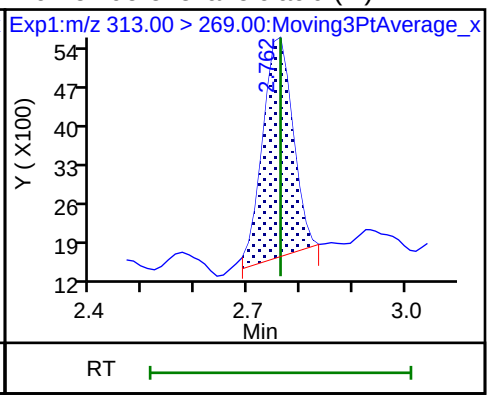
5 Perfluorobutanesulfonic acid (M)



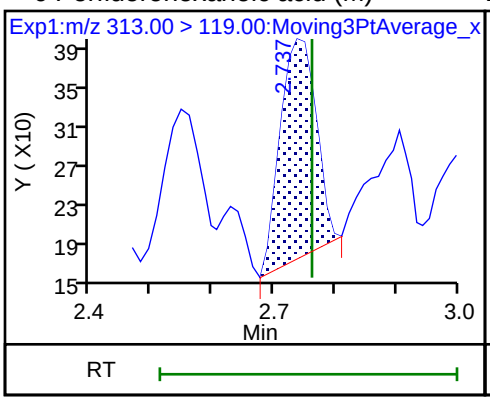
D 7 13C2 PFHxA (M)



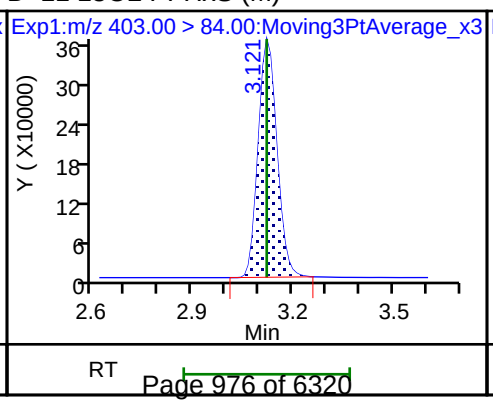
6 Perfluorohexanoic acid (M)



6 Perfluorohexanoic acid (M)



D 11 18O2 PFHxS (M)



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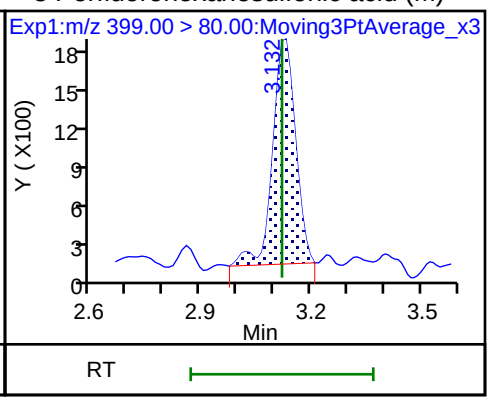
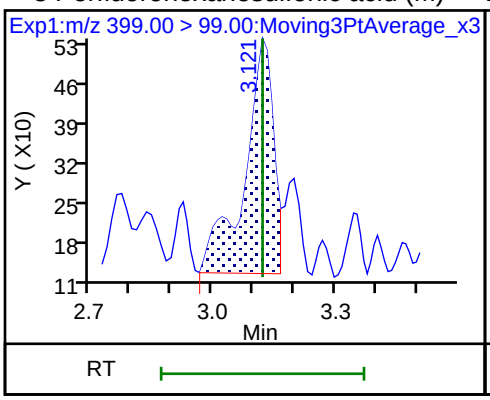
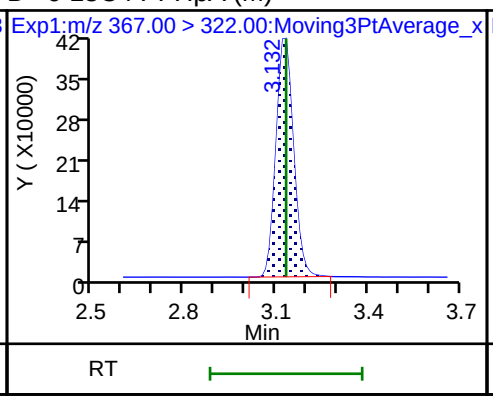


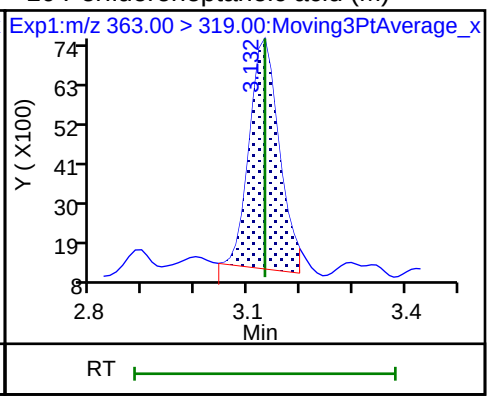
8 Perfluorohexanesulfonic acid (M)



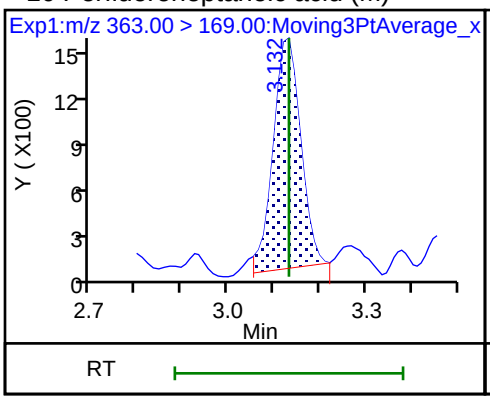
D 9 13C4 PFHpA (M)



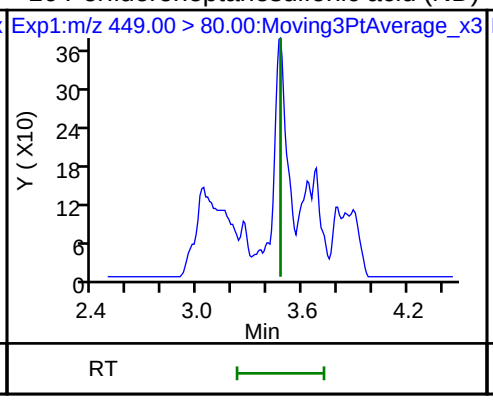
10 Perfluoroheptanoic acid (M)



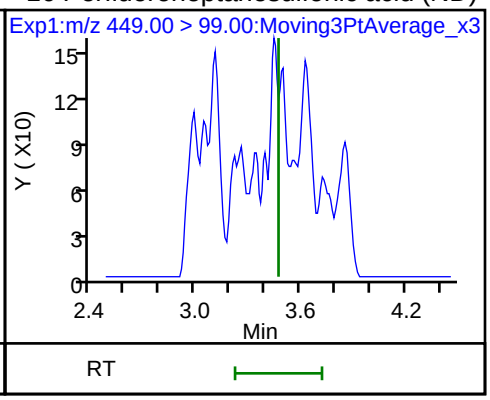
10 Perfluoroheptanoic acid (M)



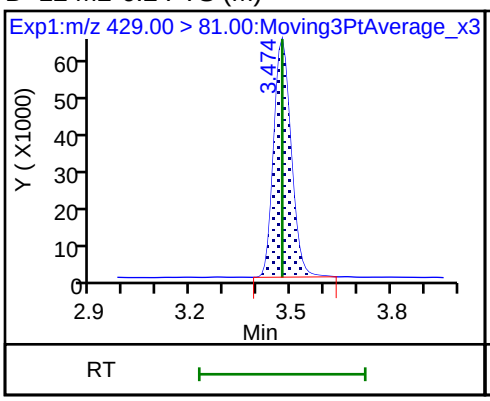
16 Perfluoroheptanesulfonic acid (ND)



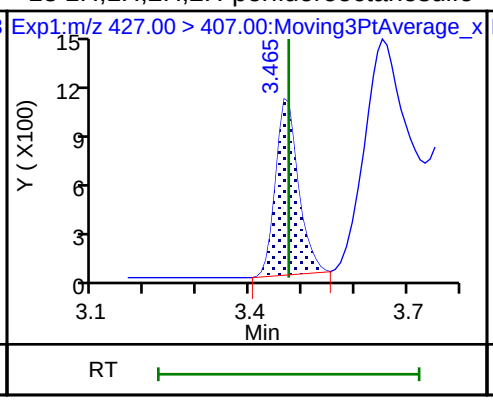
16 Perfluoroheptanesulfonic acid (ND)

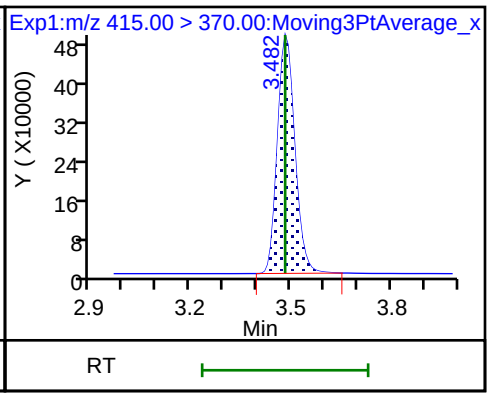


D 12 M2-6:2 FTS (M)

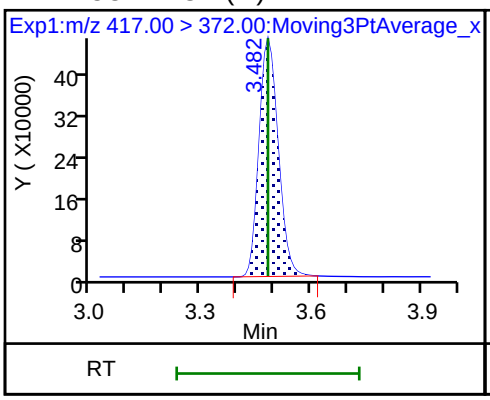


13 1H,1H,2H,2H-perfluorooctanesulfo * 62 13C2 PFOA

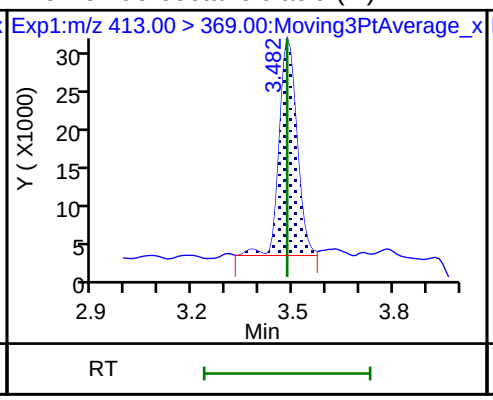




D 14 13C4 PFOA (M)



15 Perfluorooctanoic acid (M)



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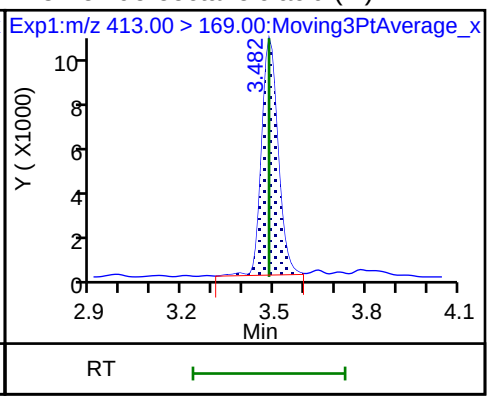
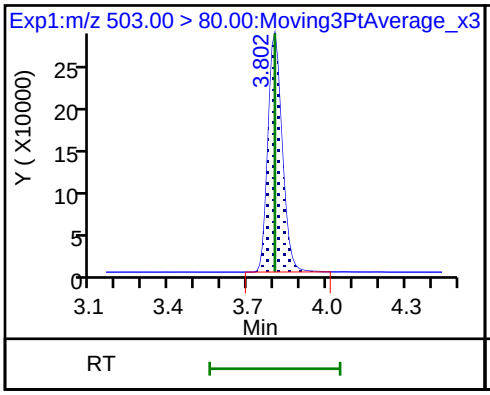
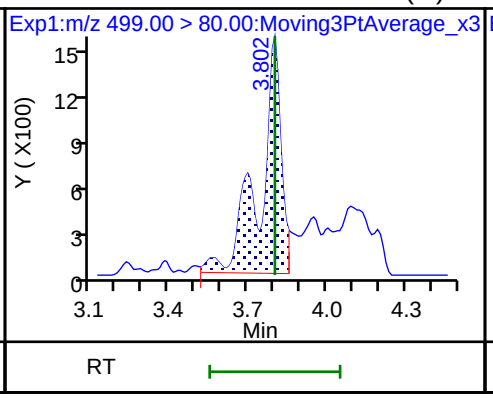


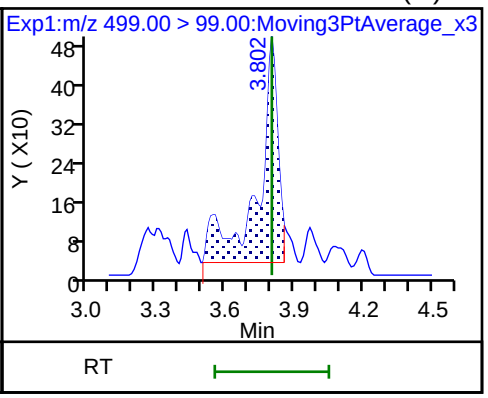
D 18 13C4 PFOS



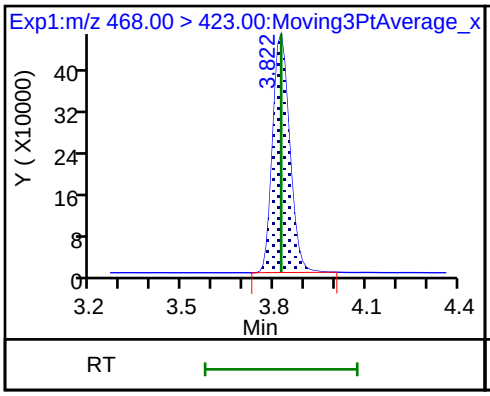
17 Perfluorooctanesulfonic acid (M)



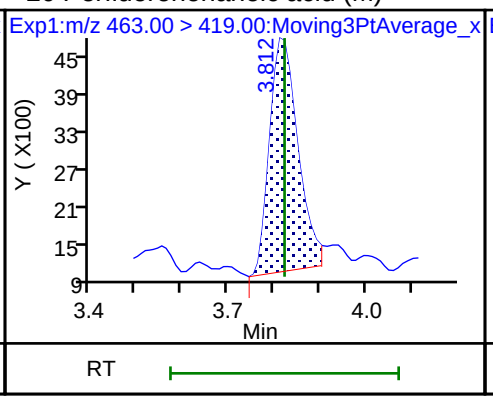
17 Perfluorooctanesulfonic acid (M)



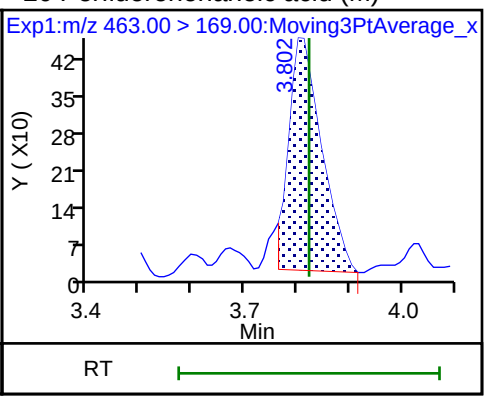
D 19 13C5 PFNA



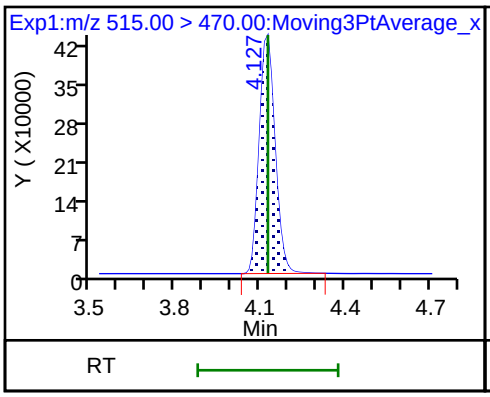
20 Perfluorononanoic acid (M)



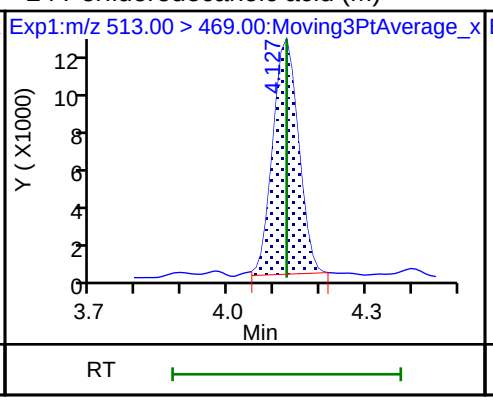
20 Perfluorononanoic acid (M)



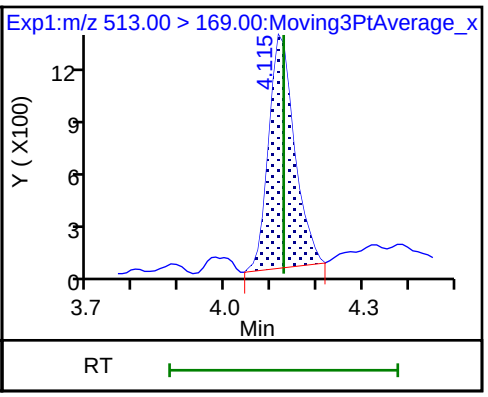
D 23 13C2 PFDA



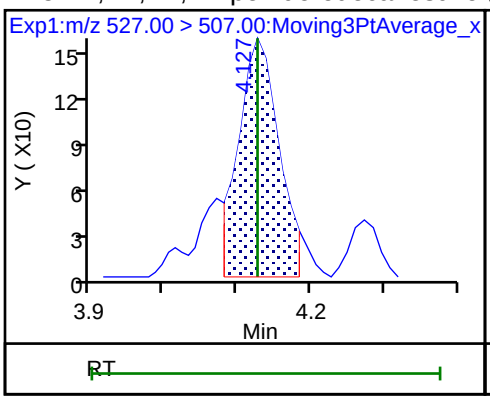
24 Perfluorodecanoic acid (M)



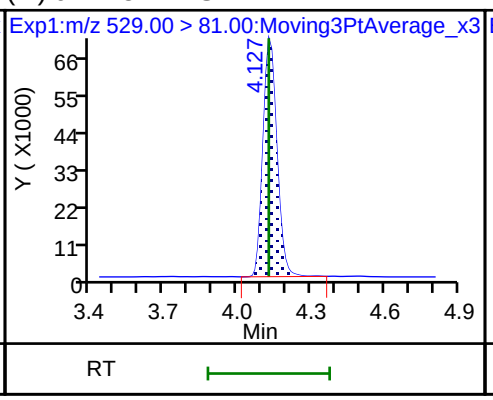
24 Perfluorodecanoic acid



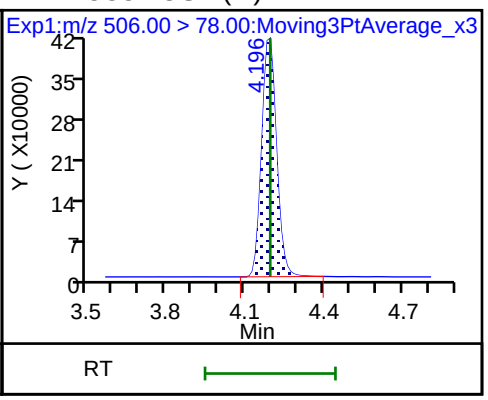
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



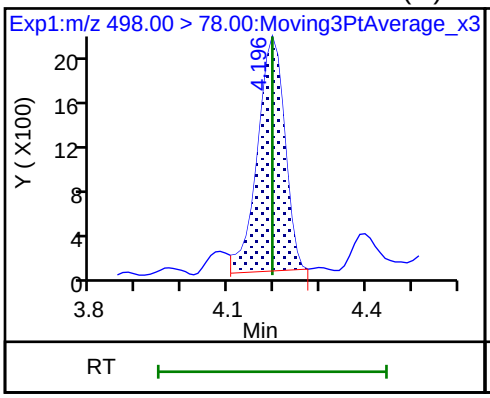
D 26 M2-8:2 FTS



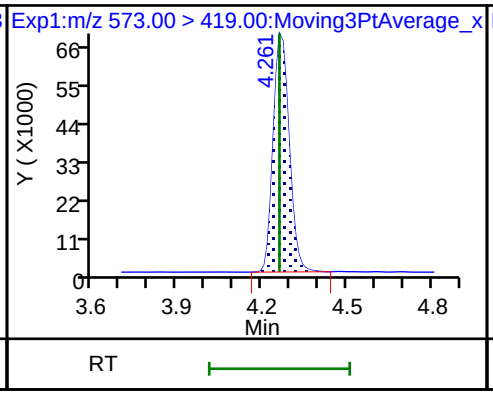
D 21 13C8 FOSA (M)



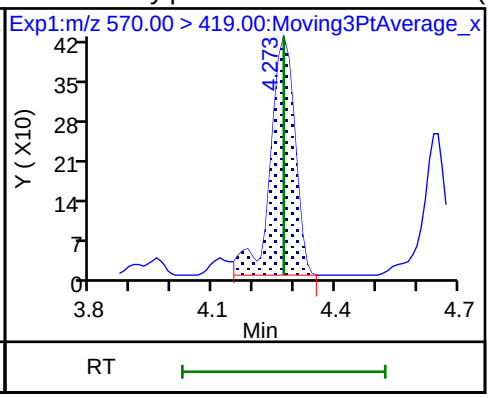
22 Perfluorooctanesulfonamide (M)



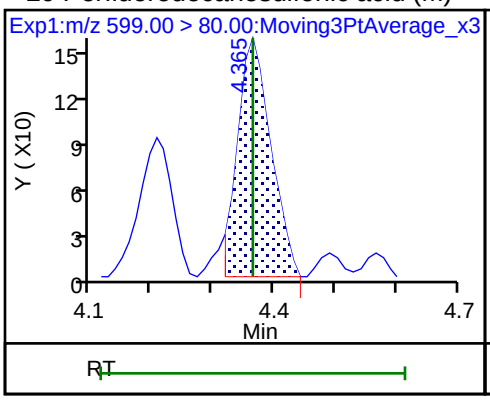
D 27 d3-NMeFOSAA



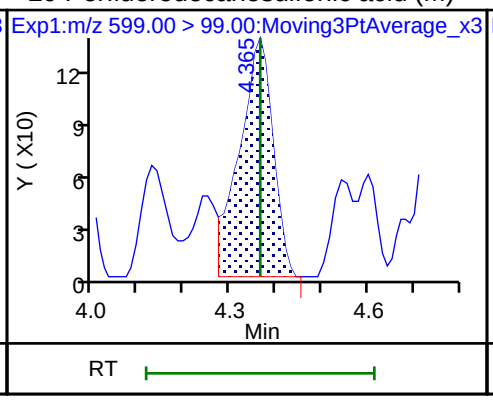
28 N-methylperfluorooctanesulfonami (M)



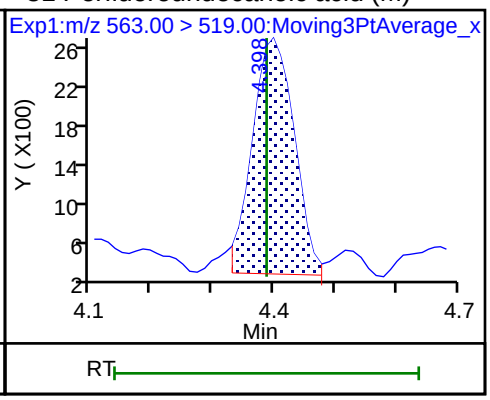
29 Perfluorodecanesulfonic acid (M)



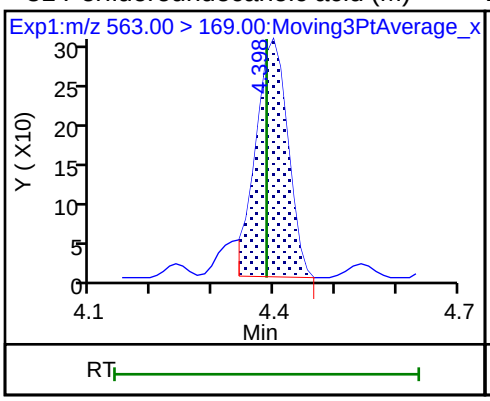
29 Perfluorodecanesulfonic acid (M)



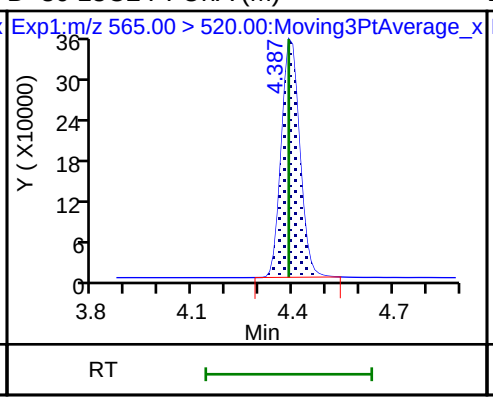
31 Perfluoroundecanoic acid (M)



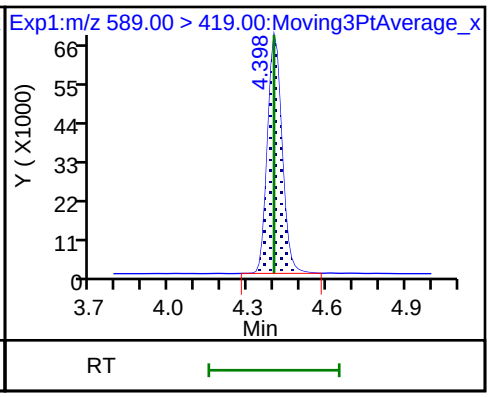
31 Perfluoroundecanoic acid (M)



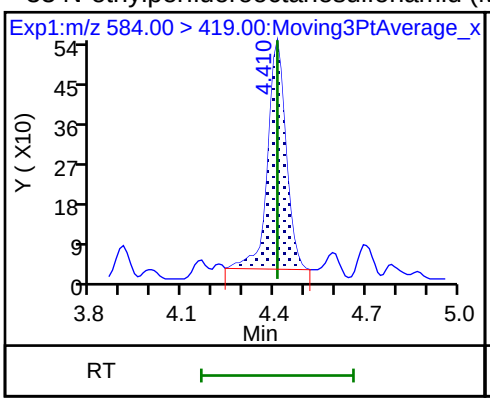
D 30 13C2 PFUnA (M)



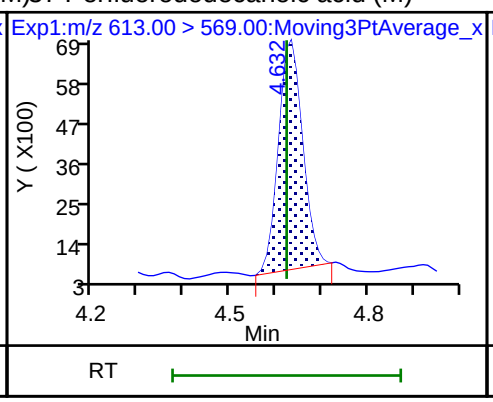
D 32 d5-NEtFOSAA



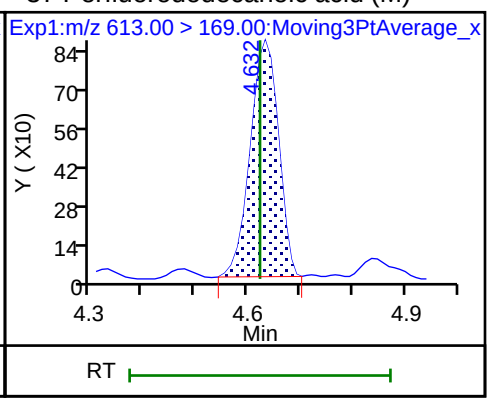
33 N-ethylperfluorooctanesulfonamid (M)



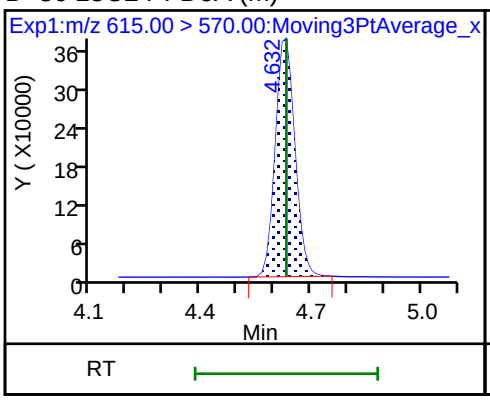
37 Perfluorododecanoic acid (M)



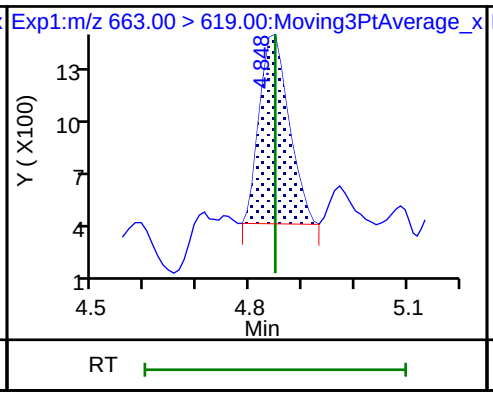
37 Perfluorododecanoic acid (M)



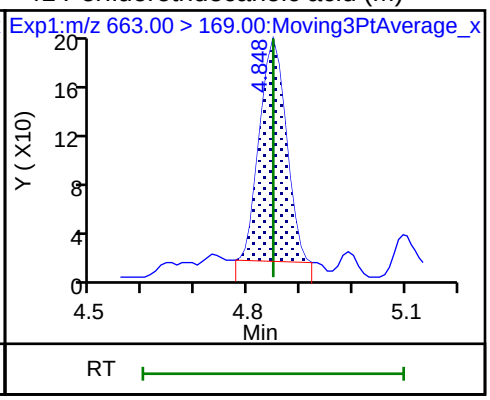
D 36 13C2 PFDoA (M)



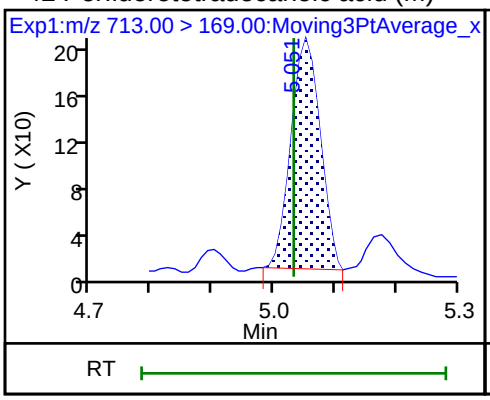
41 Perfluorotridecanoic acid



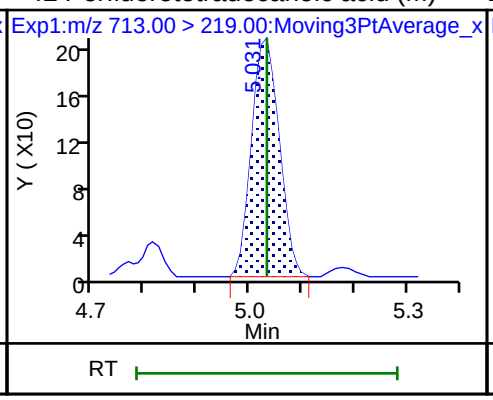
41 Perfluorotridecanoic acid (M)



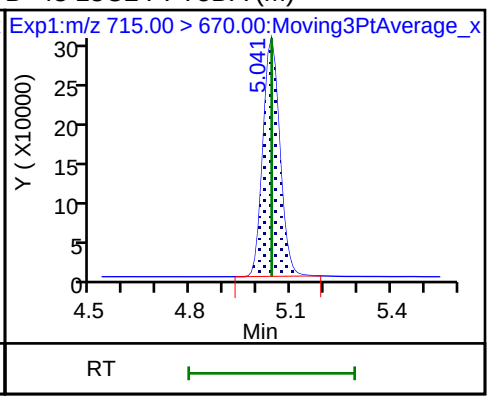
42 Perfluorotetradecanoic acid (M)



42 Perfluorotetradecanoic acid (M)



D 43 13C2 PFTeDA (M)



Manual Integration/User Assign Peak Report

Eurofins Burlington

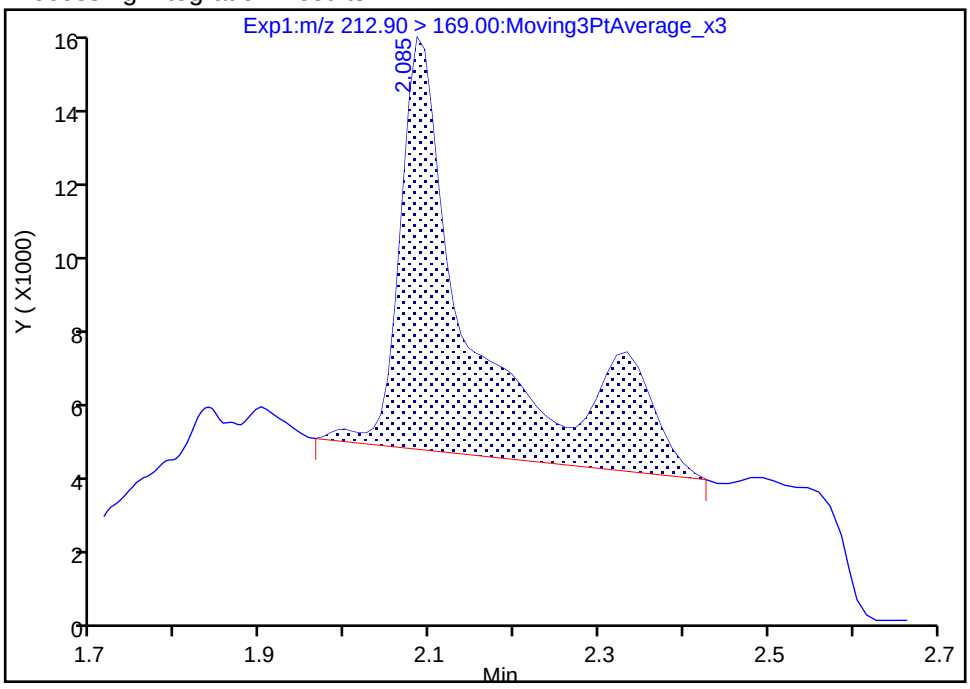
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

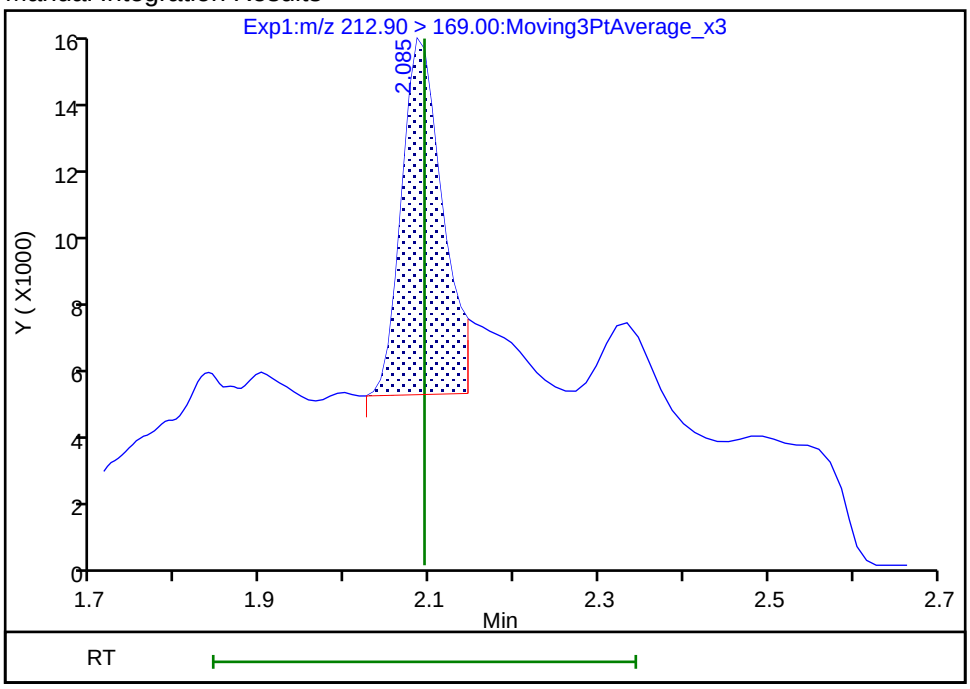
Processing Integration Results

RT: 2.08
Area: 69932
Amount: 0.043857
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 35687
Amount: 0.022439
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:38:17

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

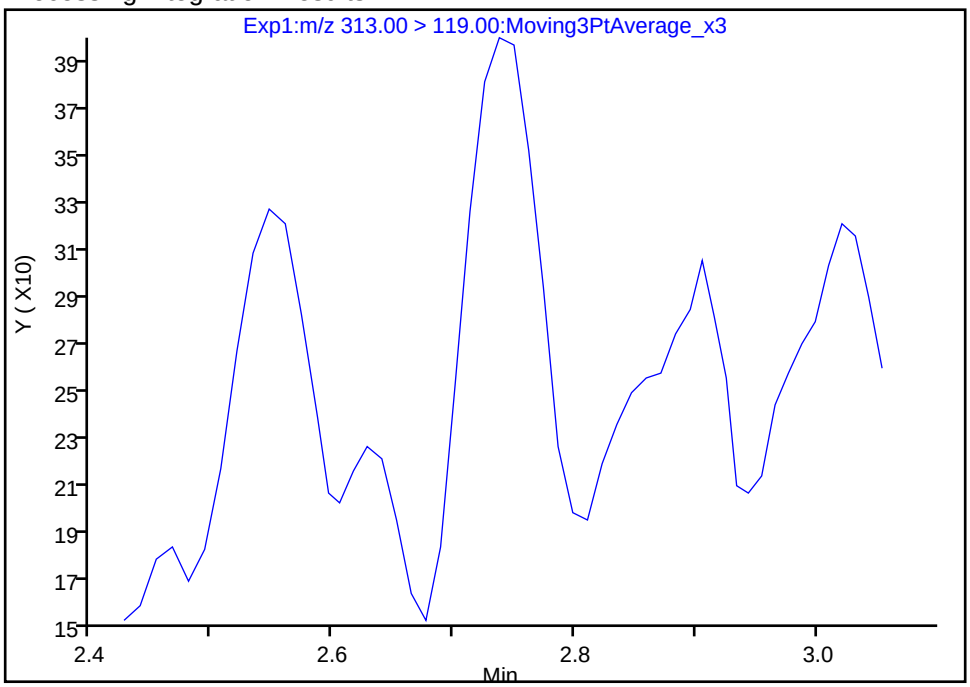
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

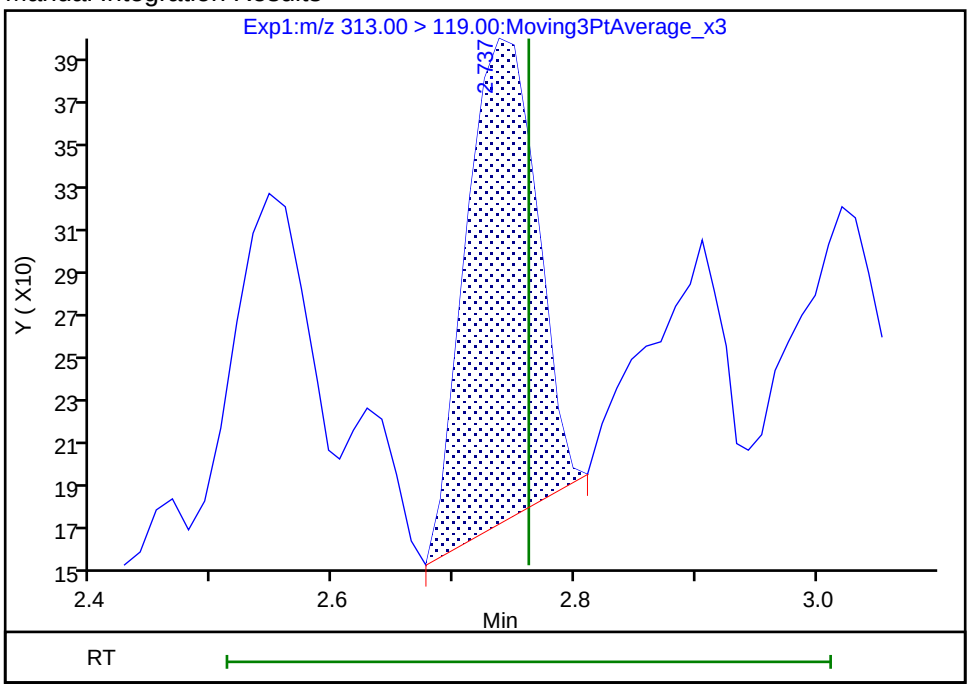
Not Detected
Expected RT: 2.76

Processing Integration Results



Manual Integration Results

RT: 2.74
Area: 894
Amount: 0.012124
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:38:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

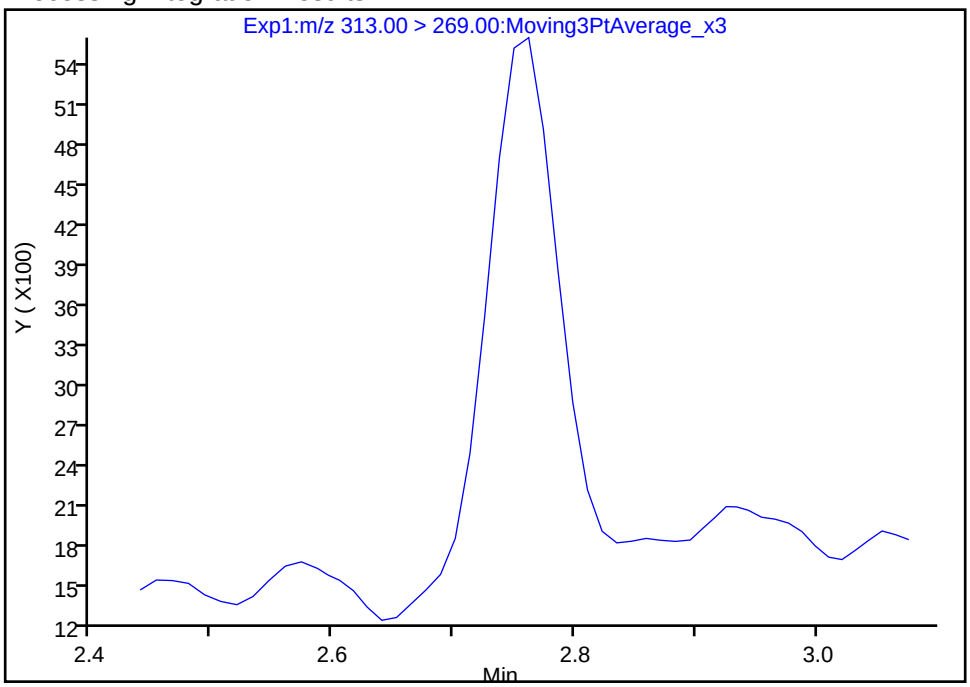
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

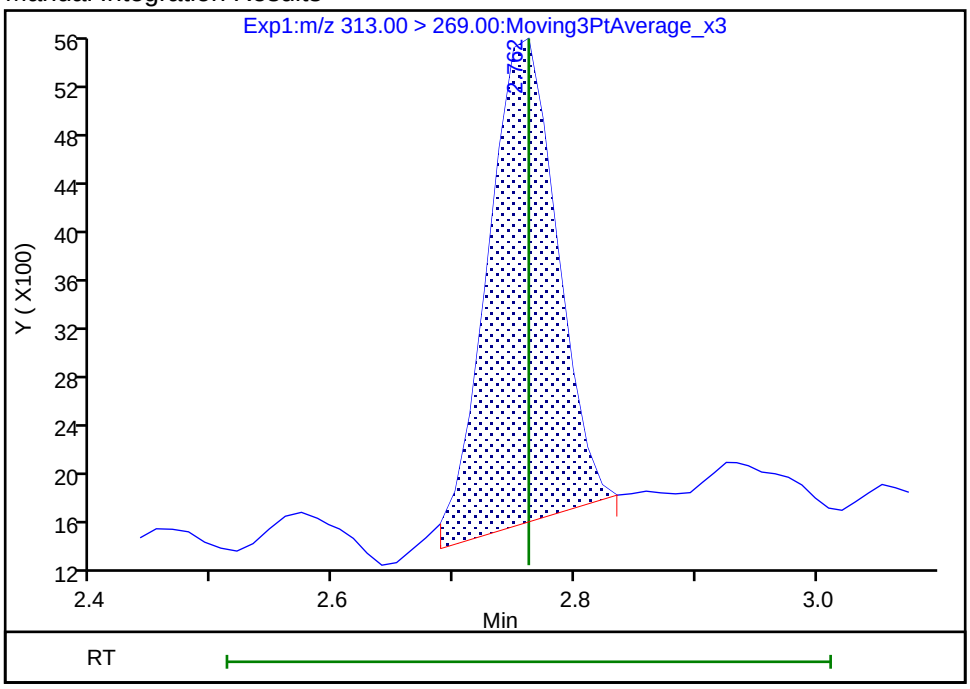
Not Detected
Expected RT: 2.76

Processing Integration Results



Manual Integration Results

RT: 2.76
Area: 15896
Amount: 0.012124
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:38:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

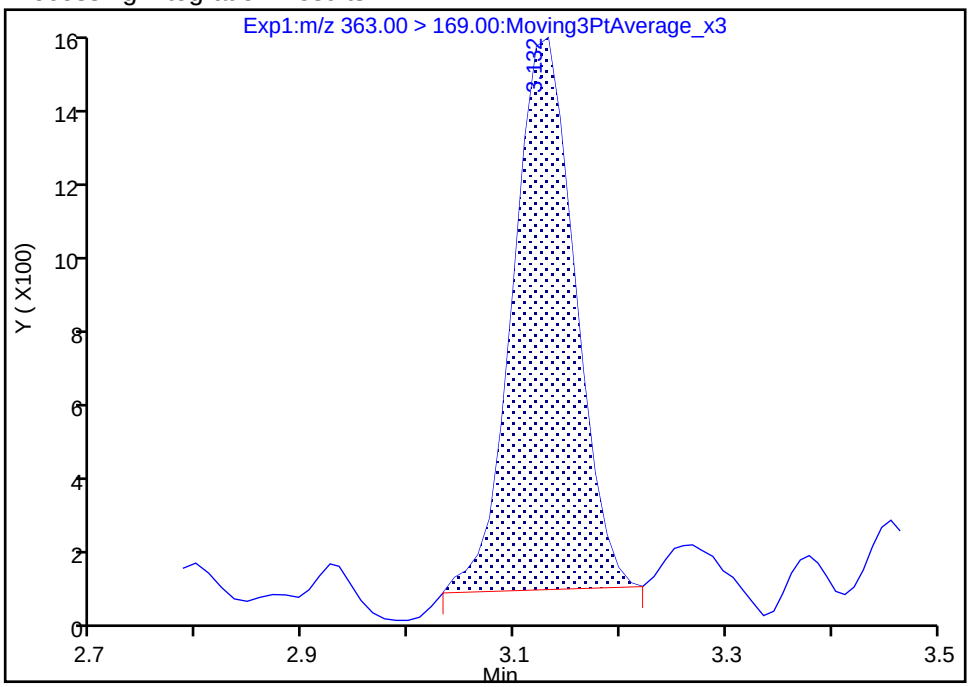
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

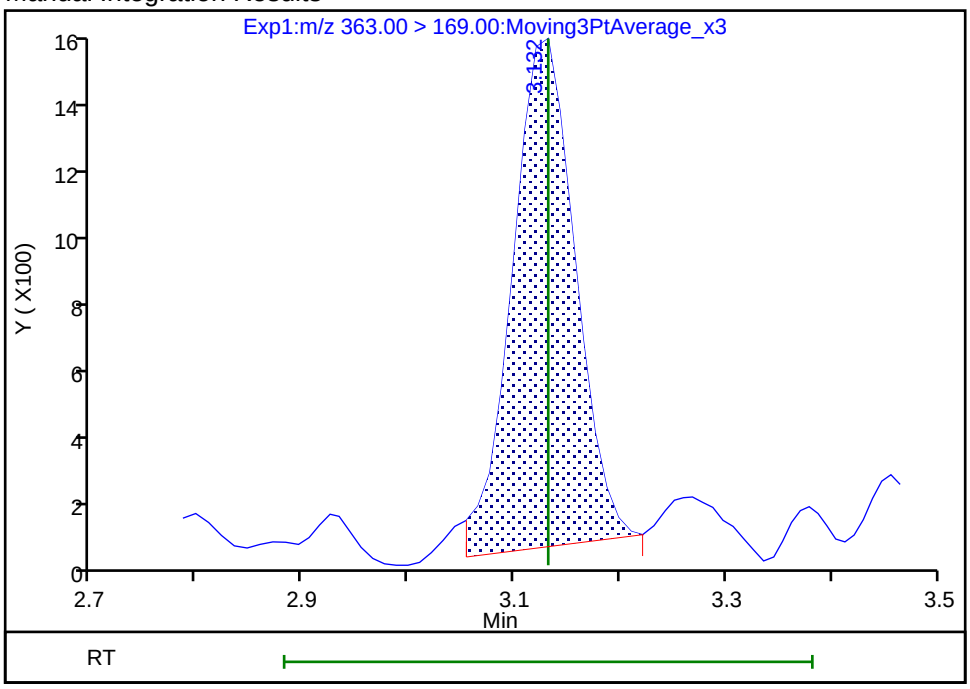
Processing Integration Results

RT: 3.13
Area: 5666
Amount: 0.019299
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 5862
Amount: 0.018843
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:39:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

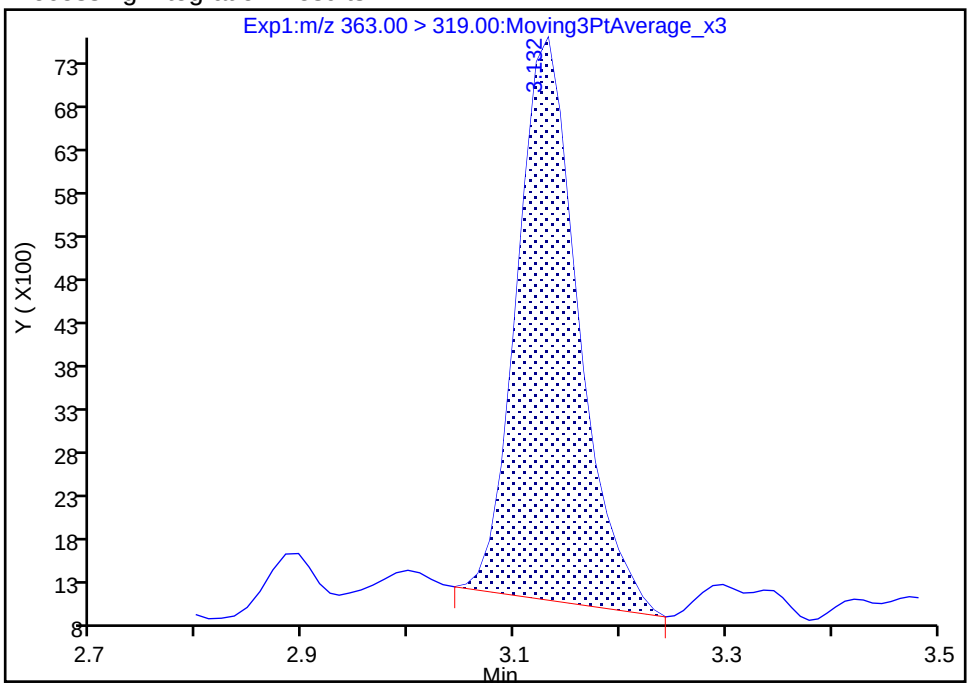
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

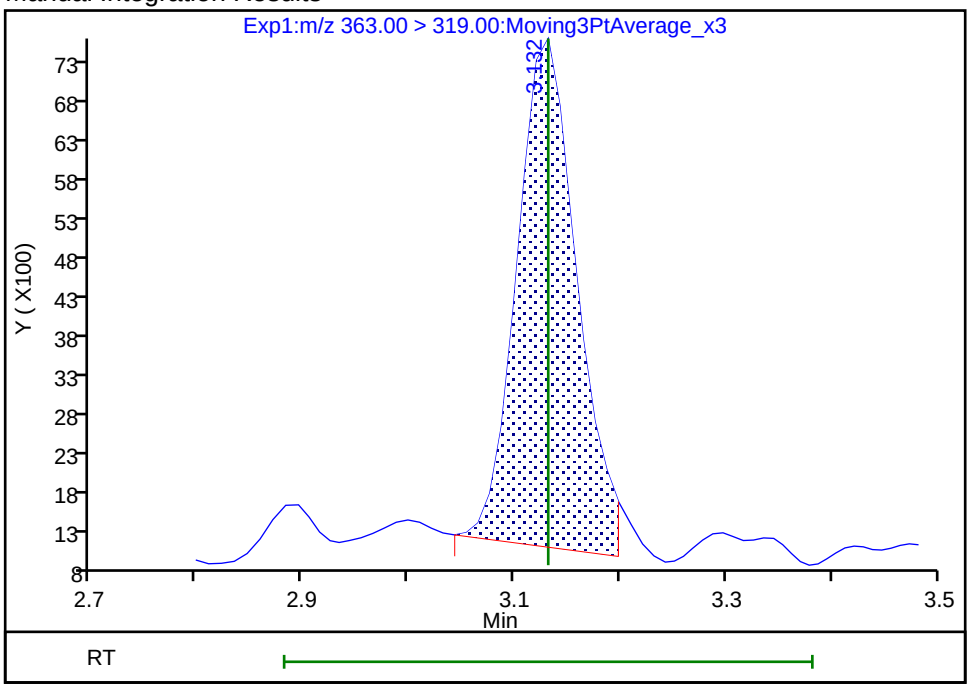
Processing Integration Results

RT: 3.13
Area: 26008
Amount: 0.019299
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 25338
Amount: 0.018843
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:39:17

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

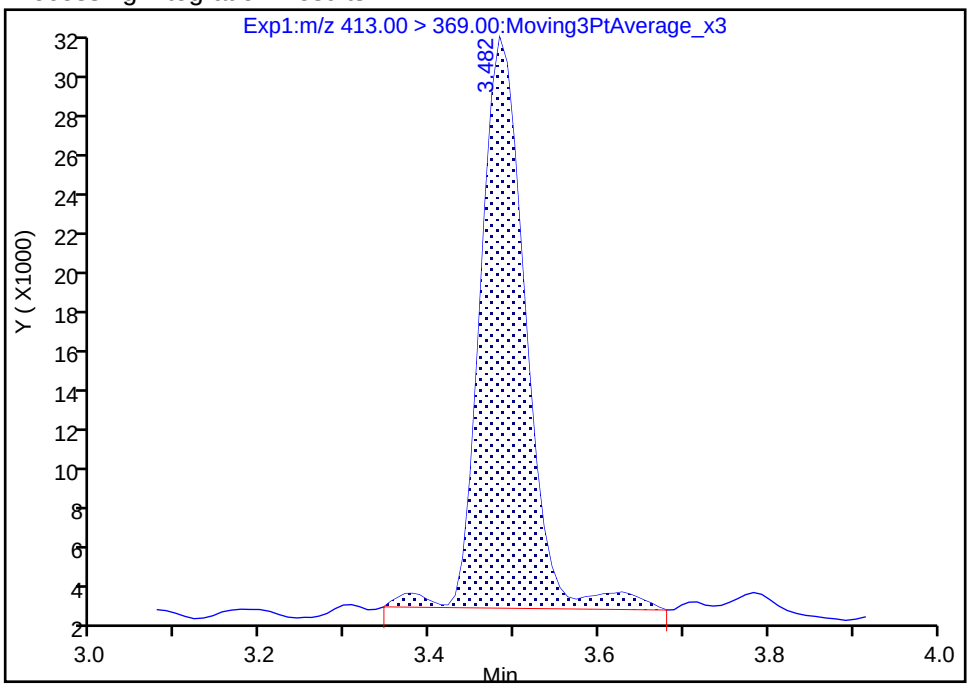
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

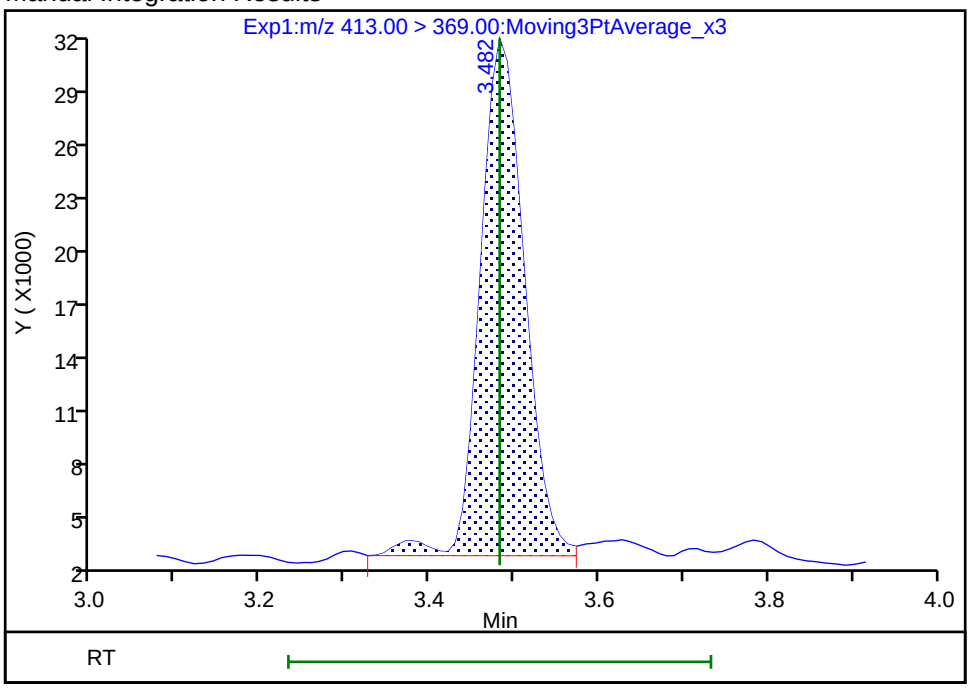
Processing Integration Results

RT: 3.48
Area: 103665
Amount: 0.068526
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 101352
Amount: 0.067714
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:39:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

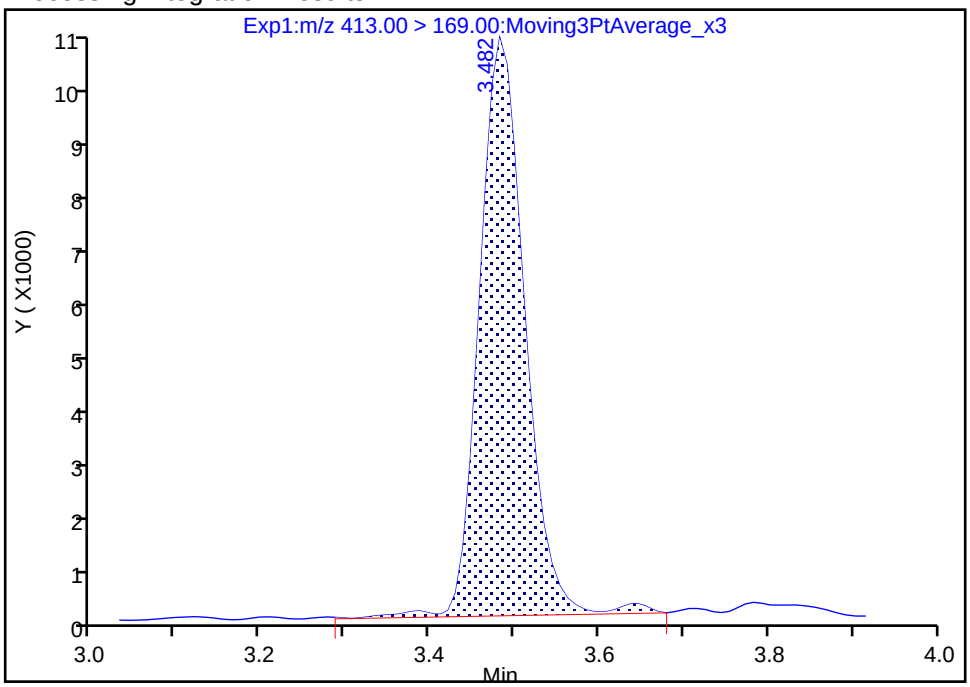
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

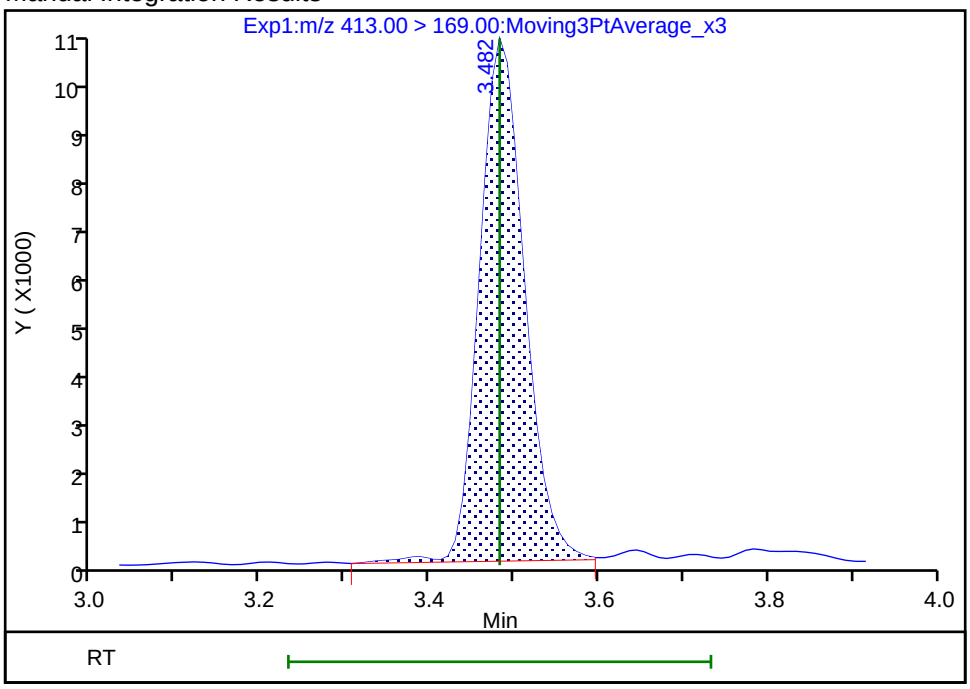
Processing Integration Results

RT: 3.48
Area: 38551
Amount: 0.068526
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 38091
Amount: 0.067714
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:39:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

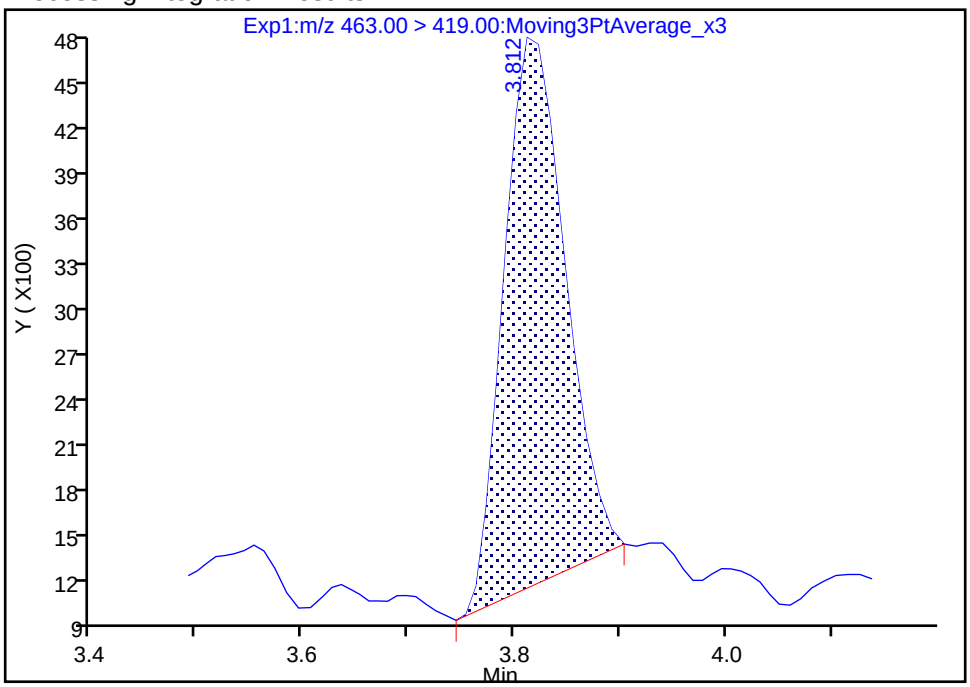
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

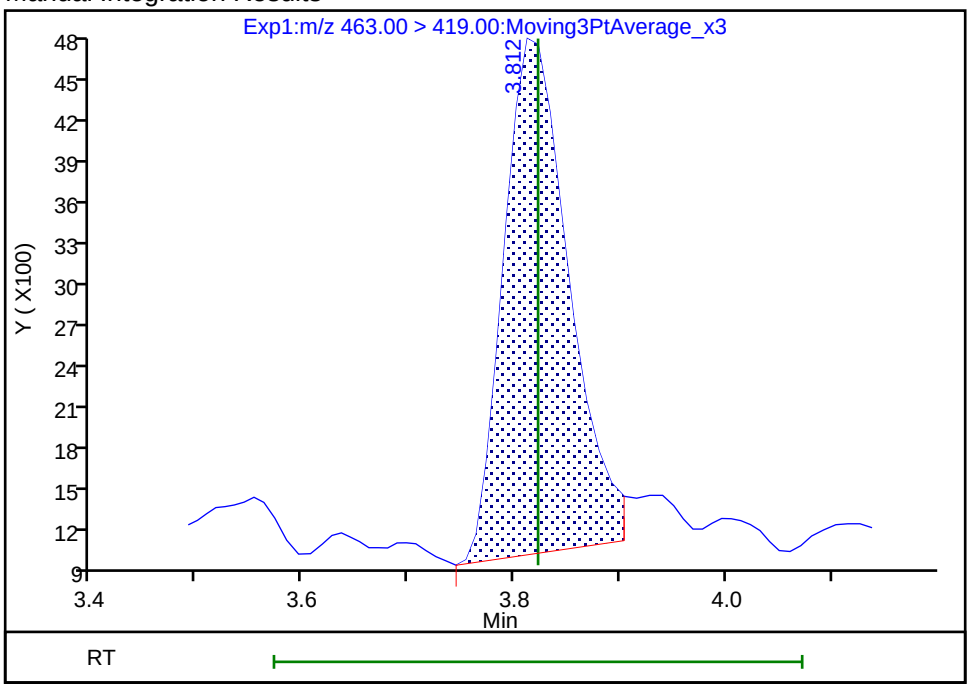
Processing Integration Results

RT: 3.81
Area: 14667
Amount: 0.010718
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 16223
Amount: 0.011855
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:40:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

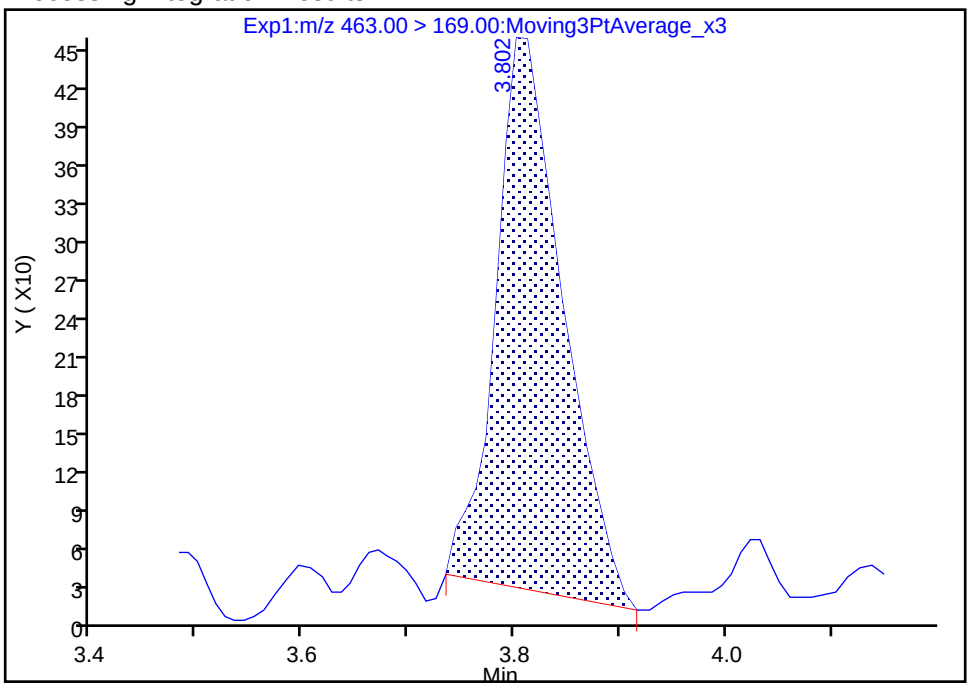
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

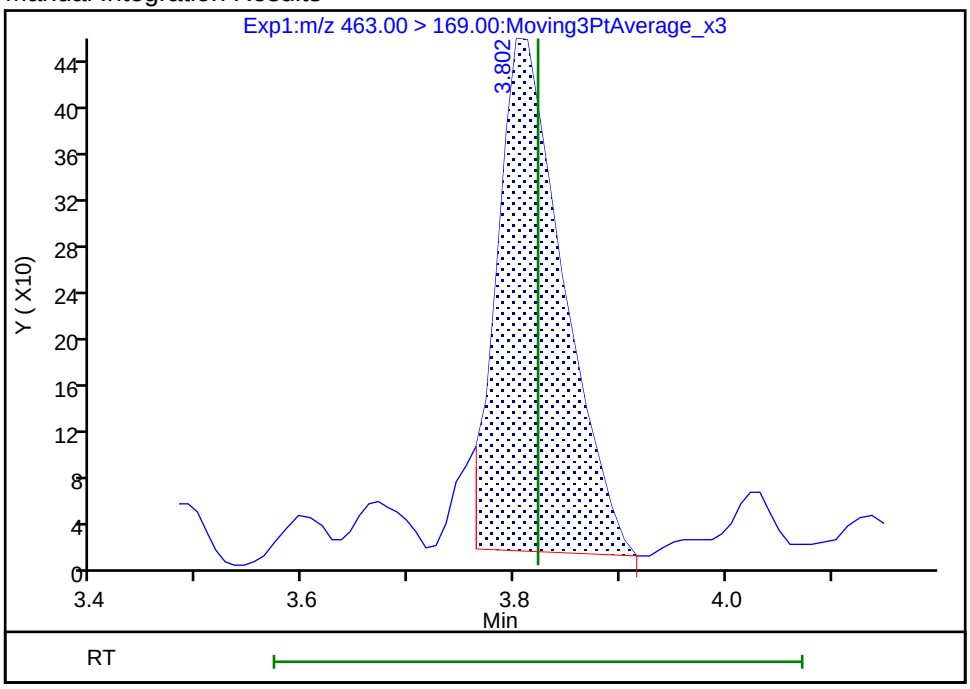
Processing Integration Results

RT: 3.80
Area: 1907
Amount: 0.010718
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 1915
Amount: 0.011855
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:40:33

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

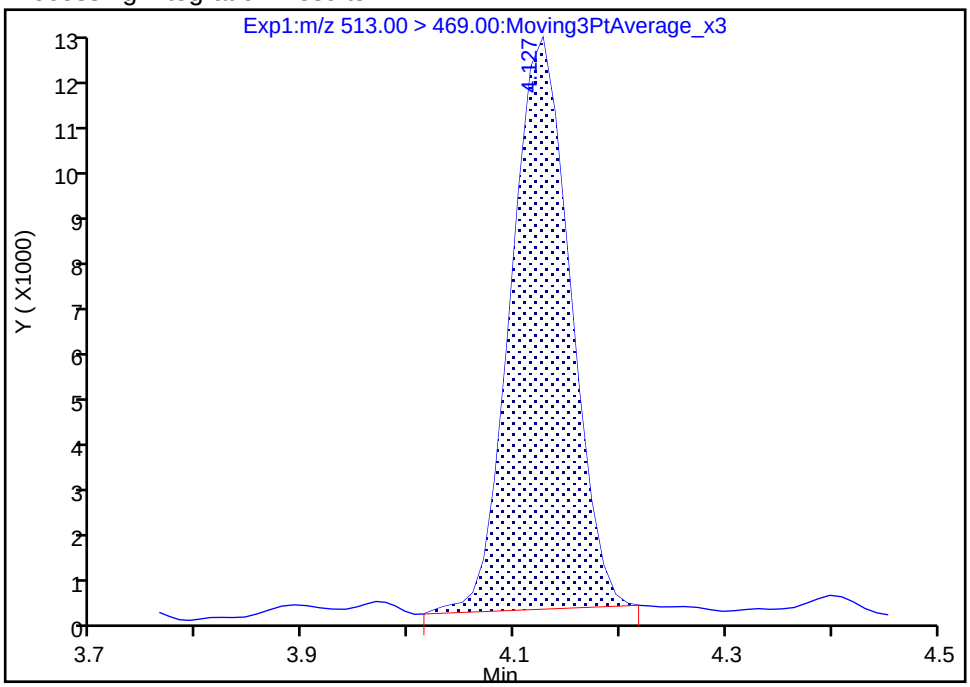
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

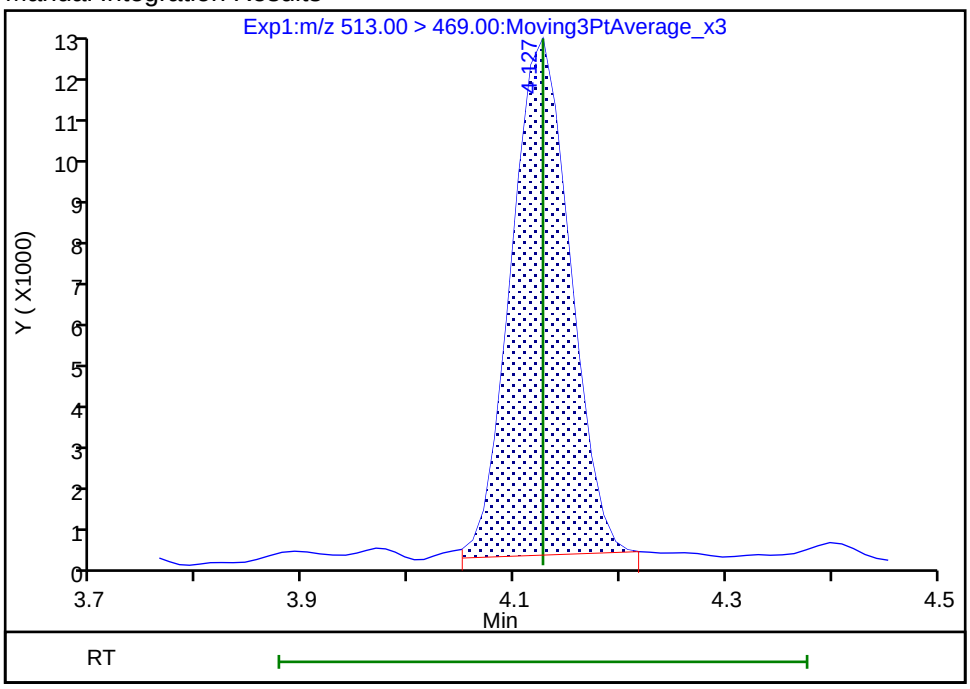
Processing Integration Results

RT: 4.13
Area: 47806
Amount: 0.033177
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 47531
Amount: 0.032986
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:40:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

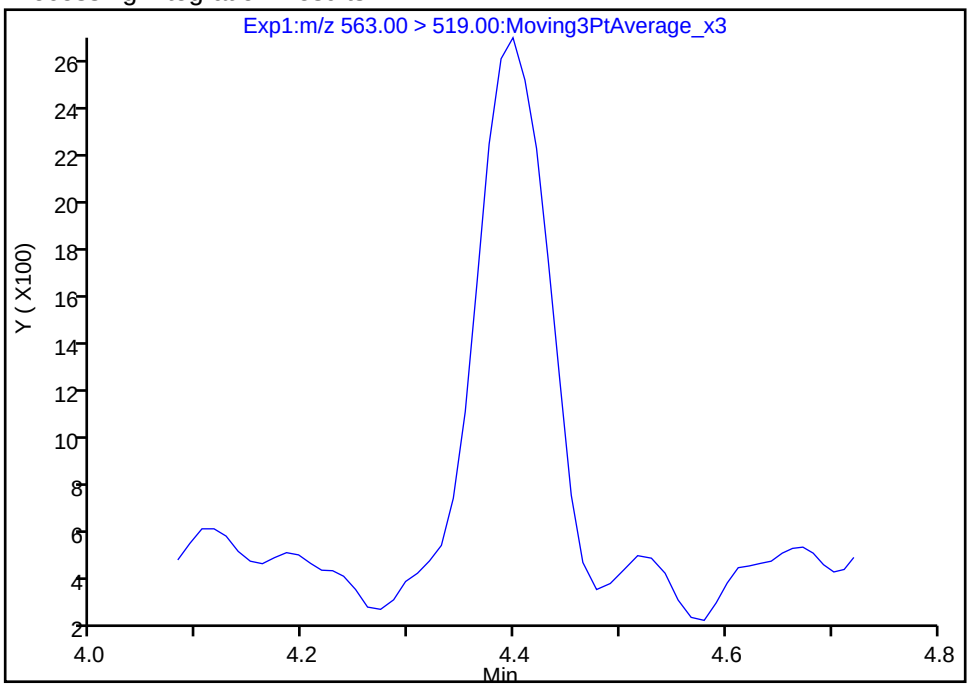
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

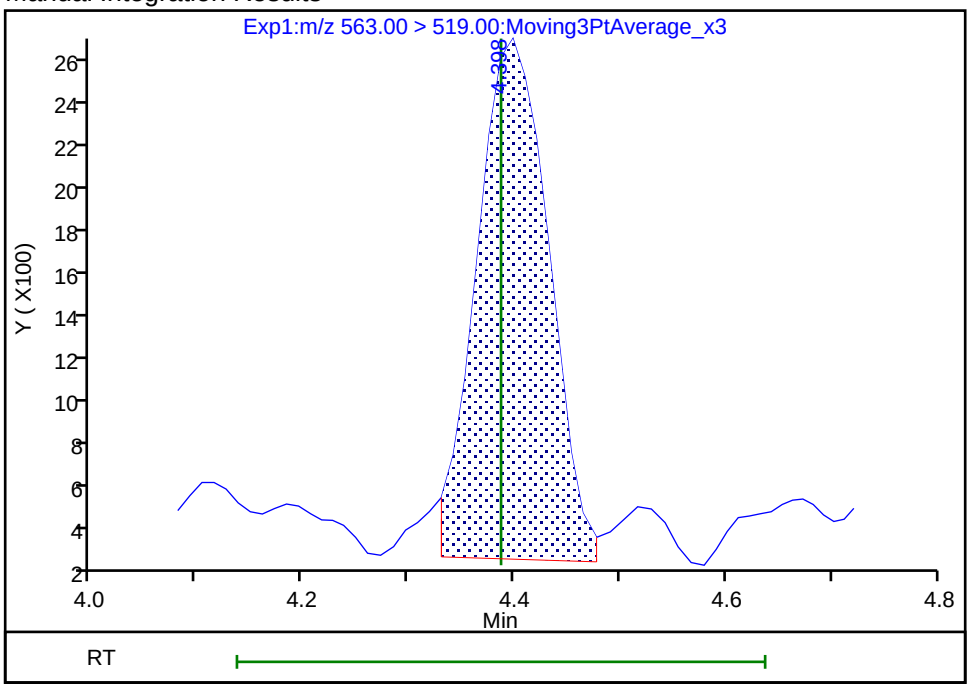
Not Detected
Expected RT: 4.39

Processing Integration Results



Manual Integration Results

RT: 4.40
Area: 10864
Amount: 0.009945
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:41:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

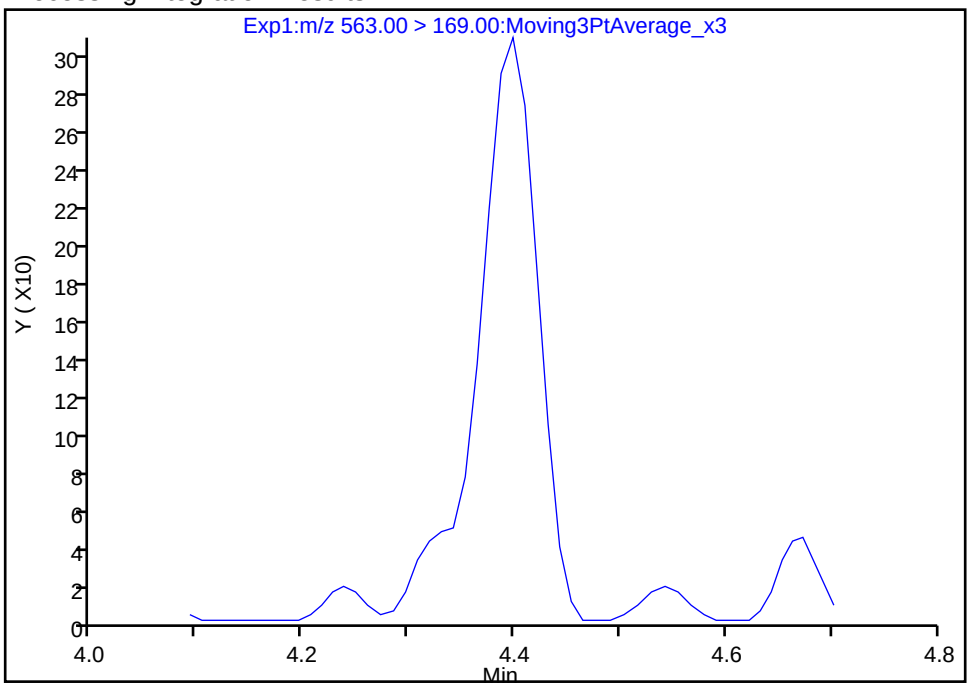
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

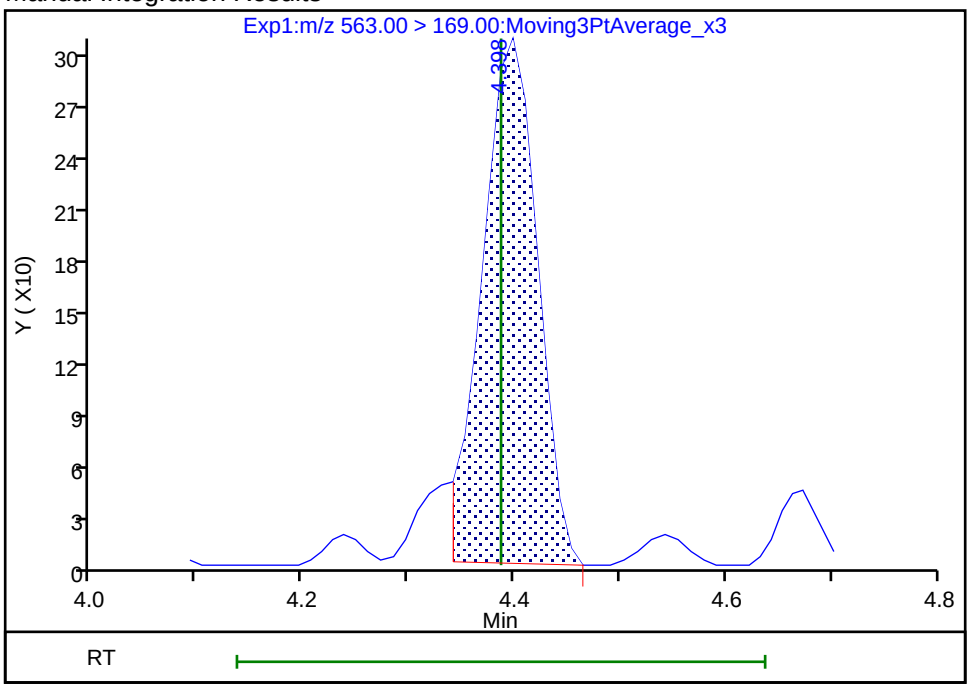
Processing Integration Results

Not Detected
Expected RT: 4.39



Manual Integration Results

RT: 4.40
Area: 1114
Amount: 0.009945
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:41:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

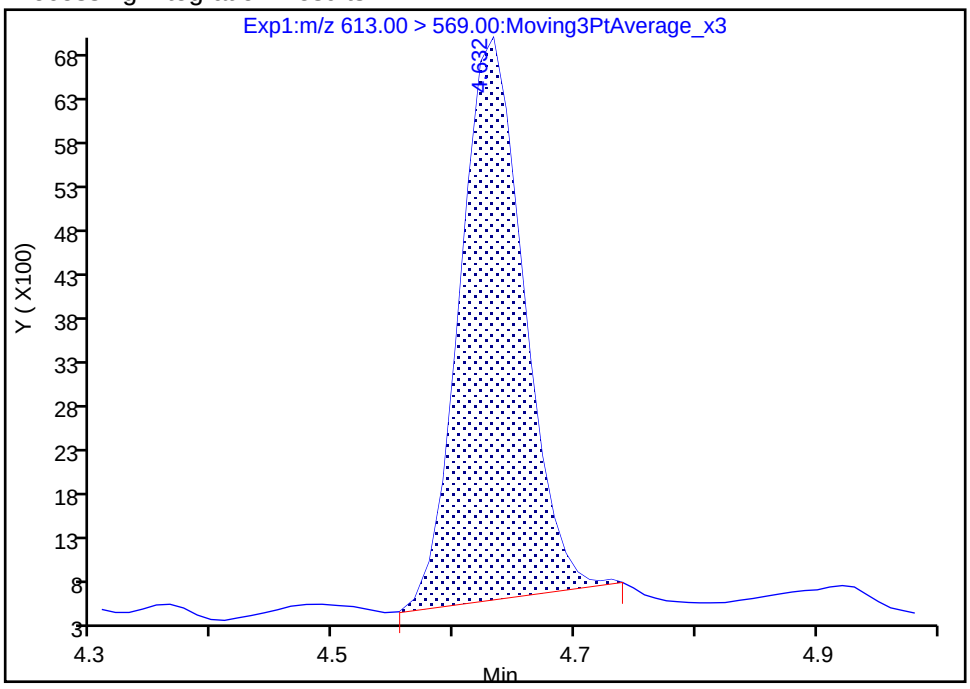
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

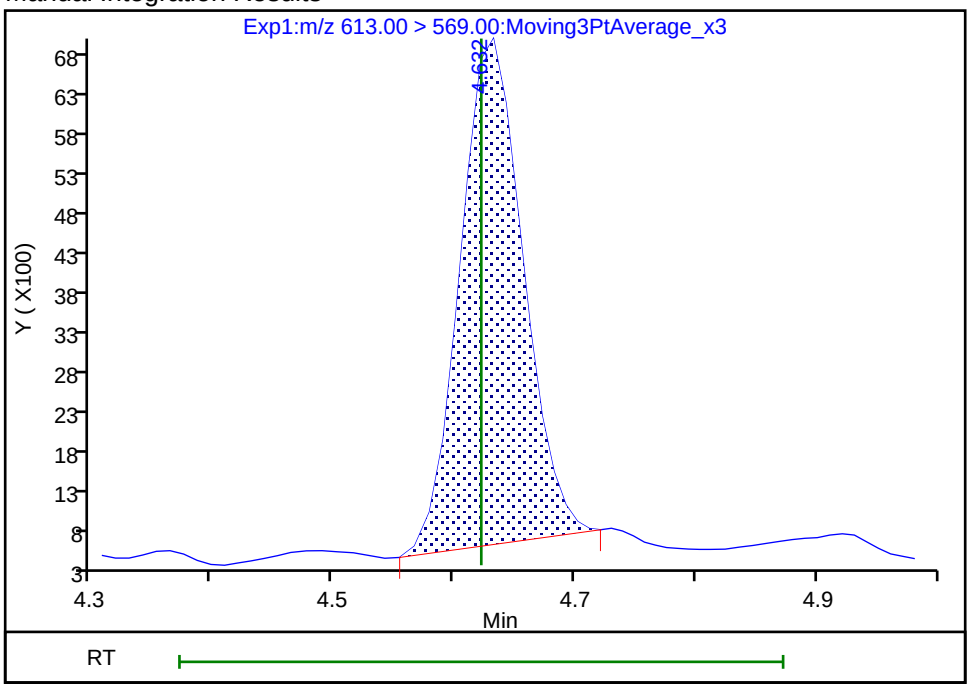
Processing Integration Results

RT: 4.63
Area: 23204
Amount: 0.020337
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 22871
Amount: 0.020222
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:42:12

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

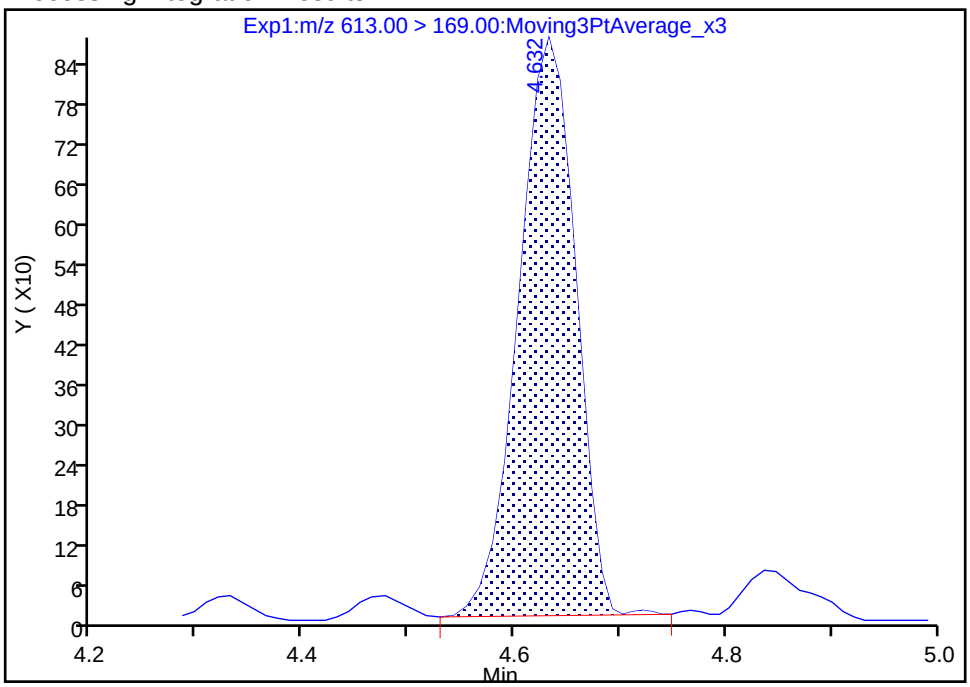
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

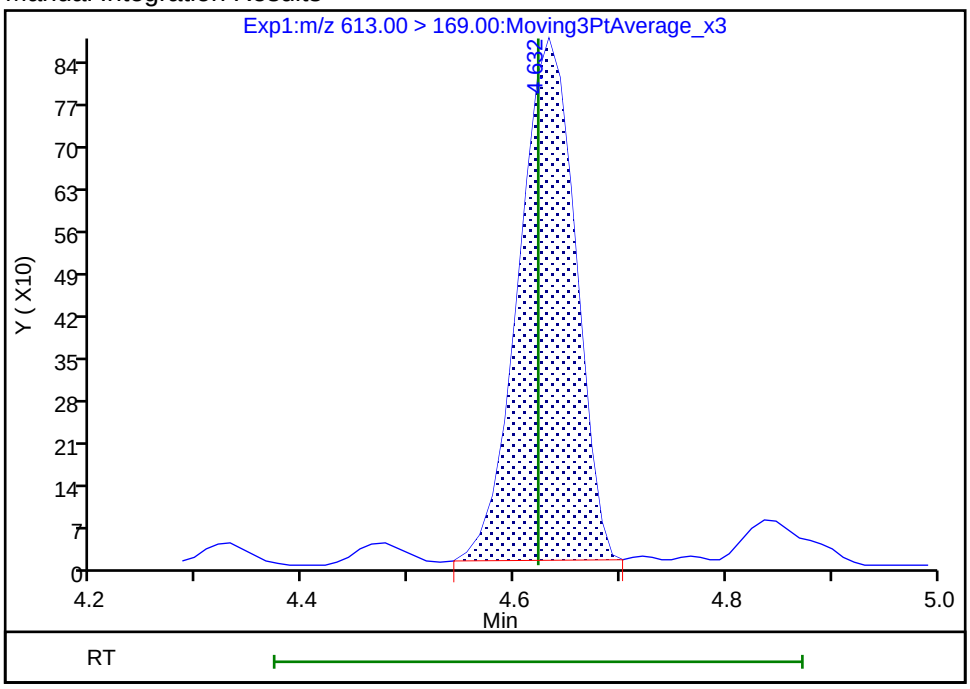
Processing Integration Results

RT: 4.63
Area: 3246
Amount: 0.020337
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 3224
Amount: 0.020222
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:42:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

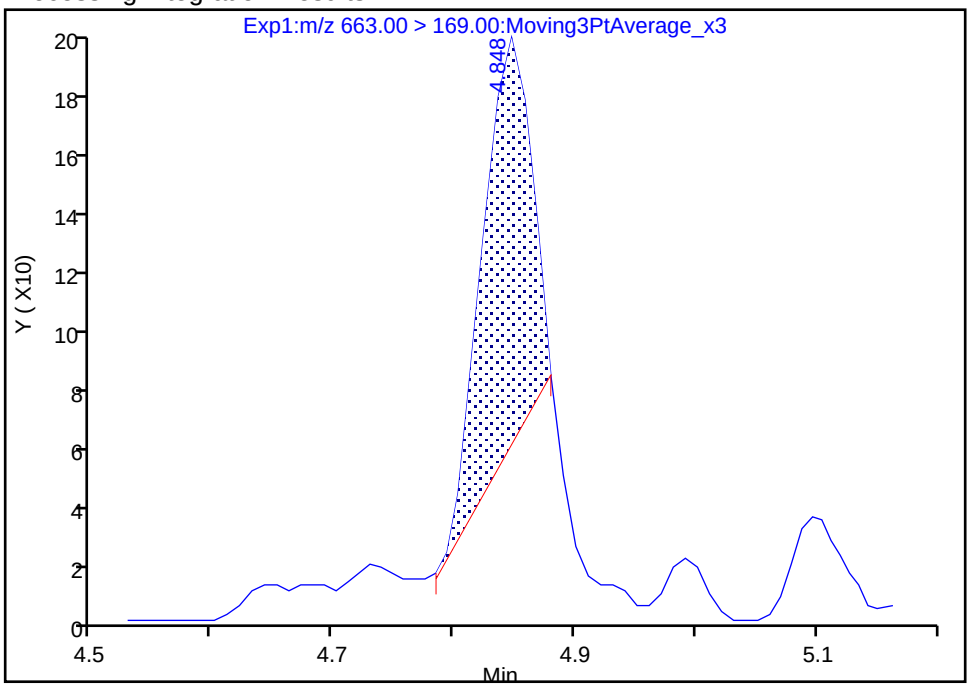
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

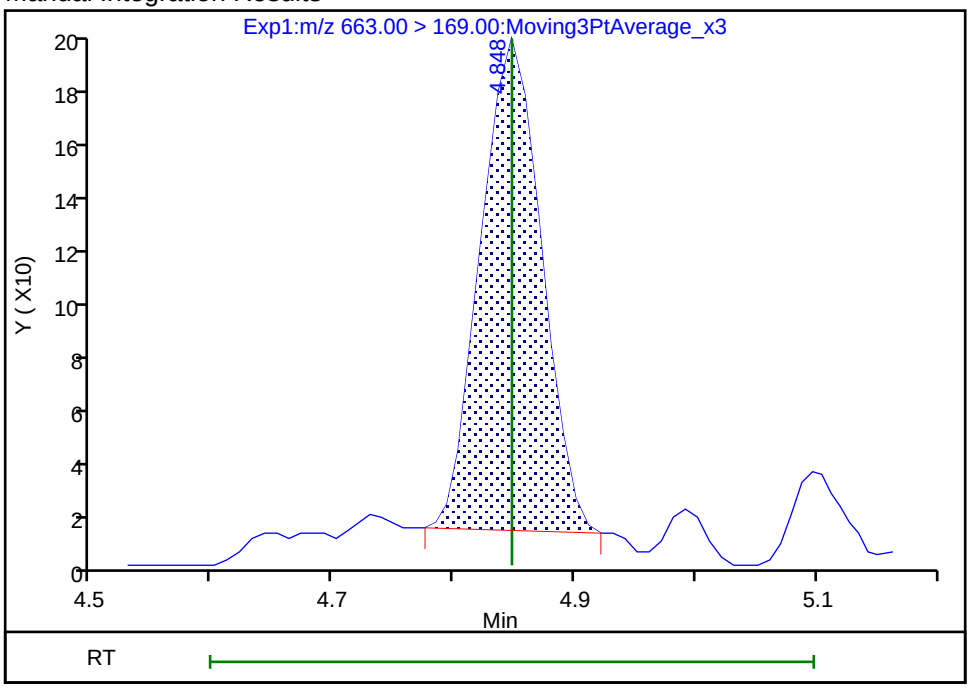
Processing Integration Results

RT: 4.85
Area: 390
Amount: 0.003962
Amount Units: ng/ml



Manual Integration Results

RT: 4.85
Area: 646
Amount: 0.003997
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:42:22

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

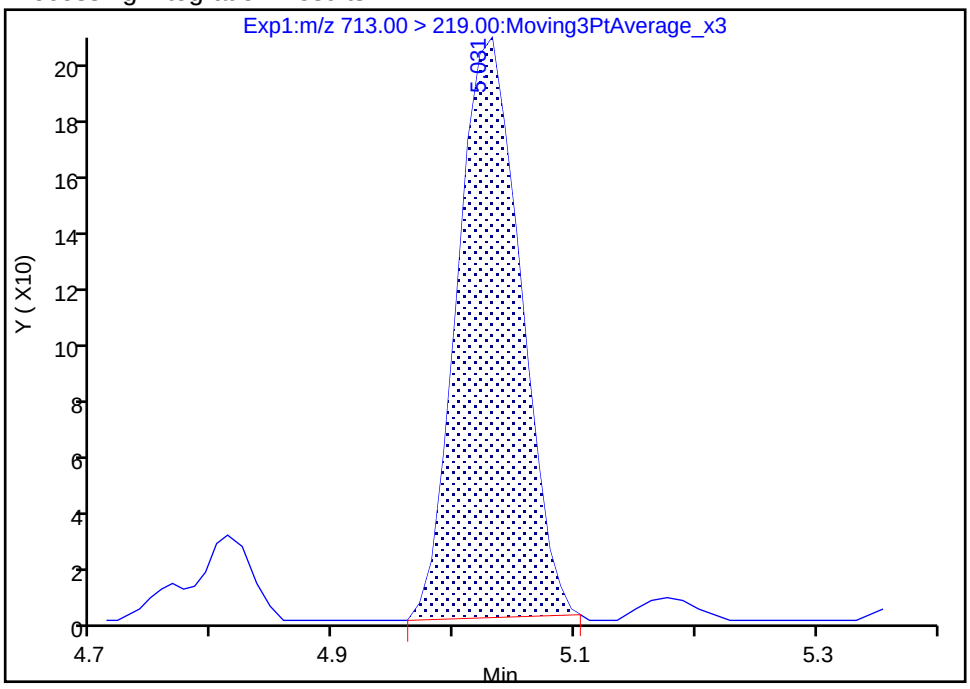
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

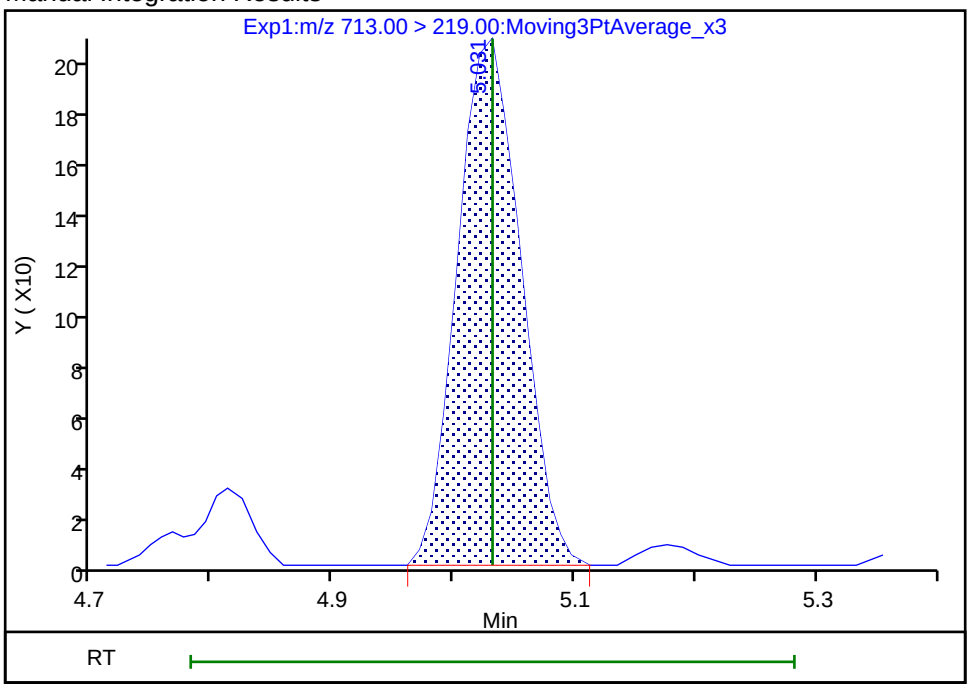
Processing Integration Results

RT: 5.03
Area: 741
Amount: 0.005121
Amount Units: ng/ml



Manual Integration Results

RT: 5.03
Area: 750
Amount: 0.005116
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:42:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

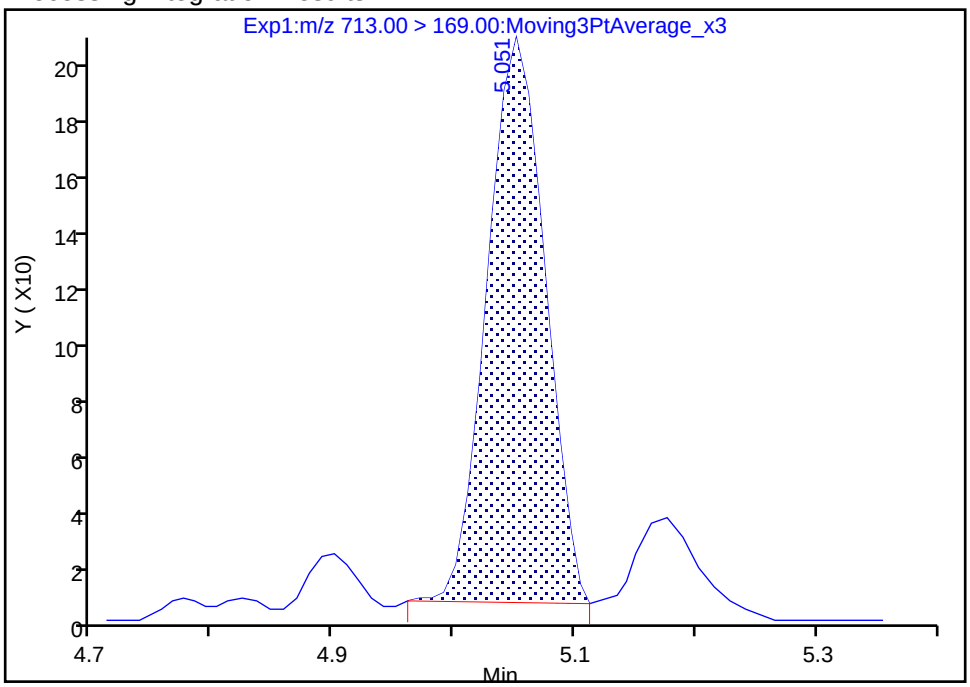
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

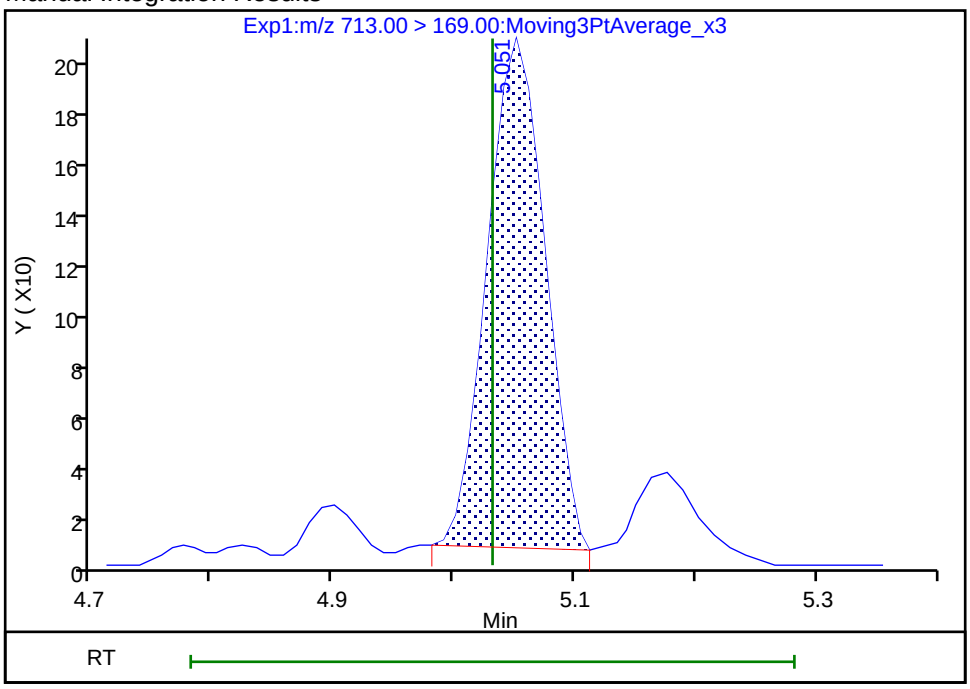
Processing Integration Results

RT: 5.05
Area: 680
Amount: 0.005121
Amount Units: ng/ml



Manual Integration Results

RT: 5.05
Area: 674
Amount: 0.005116
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:42:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

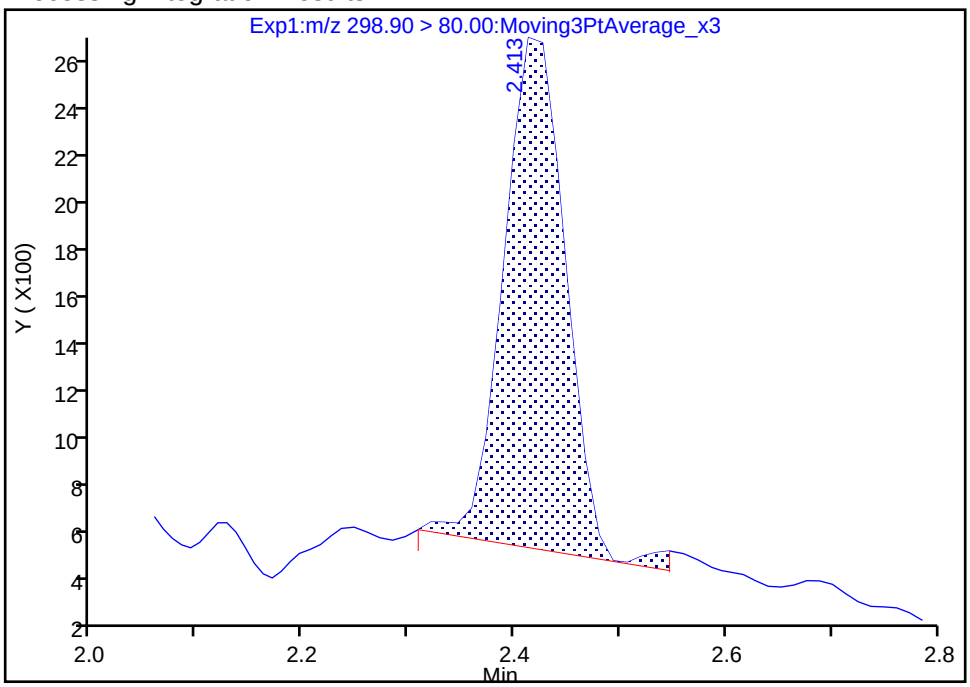
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

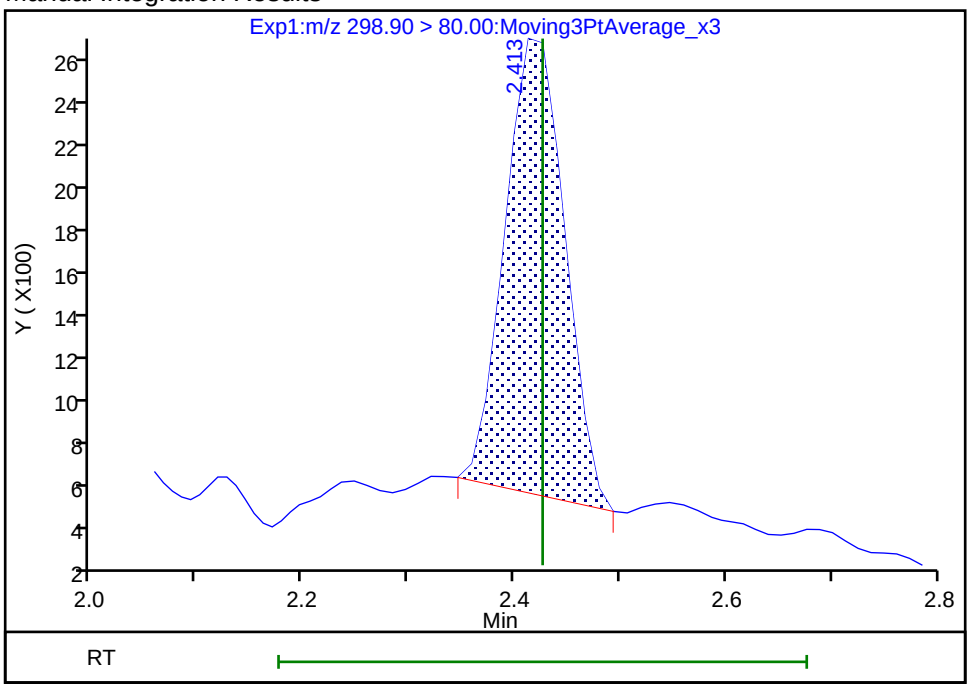
Processing Integration Results

RT: 2.41
Area: 8530
Amount: 0.004958
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 8083
Amount: 0.004698
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:38:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

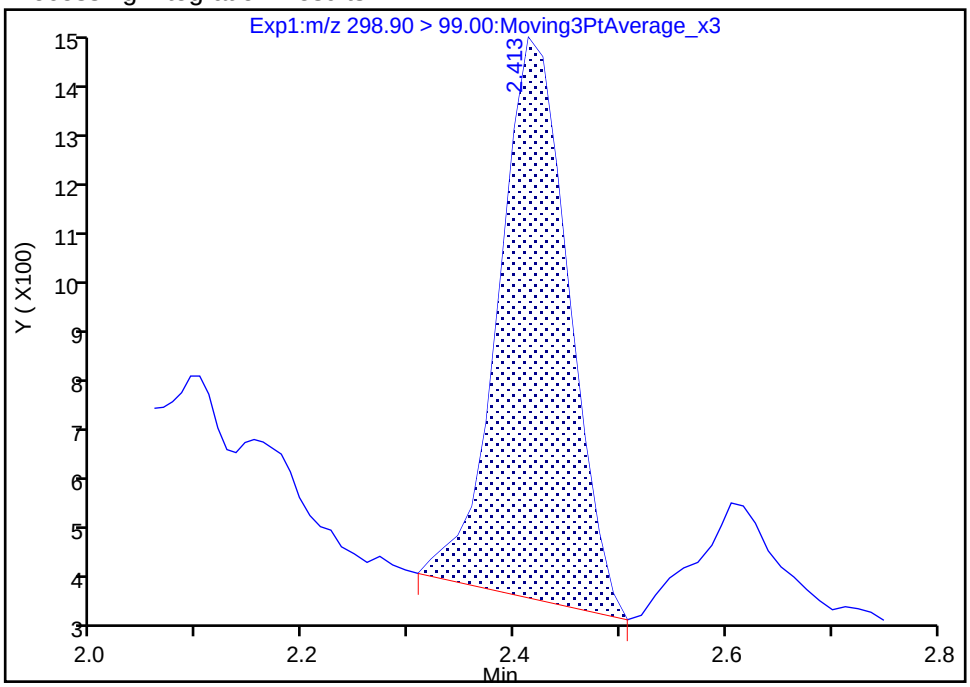
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

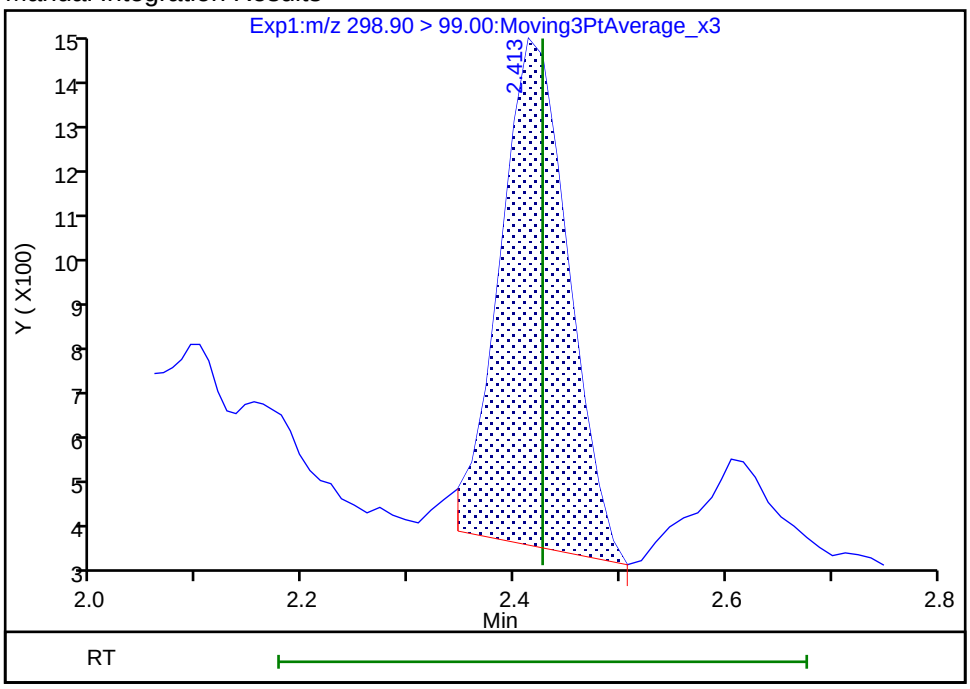
Processing Integration Results

RT: 2.41
Area: 5140
Amount: 0.004958
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 5033
Amount: 0.004698
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:38:28

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

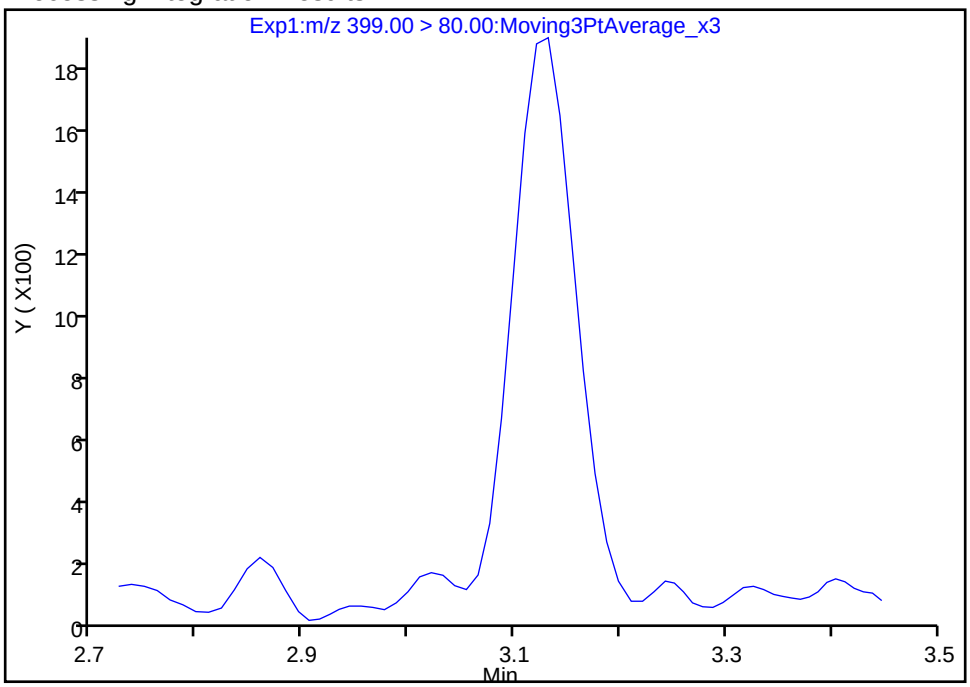
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

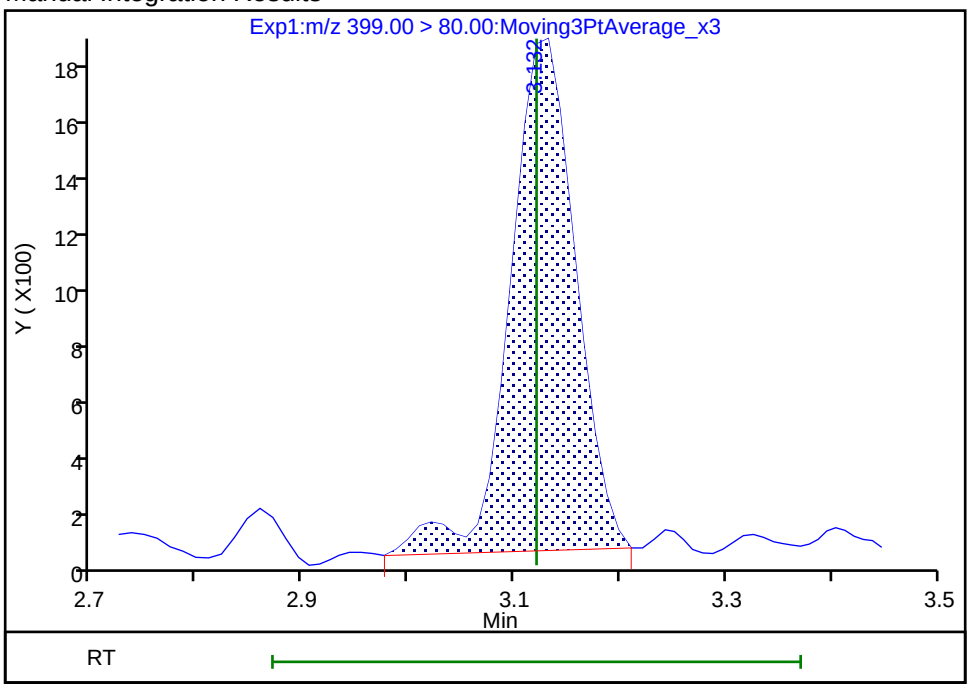
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.13
Area: 7537
Amount: 0.005726
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:38:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

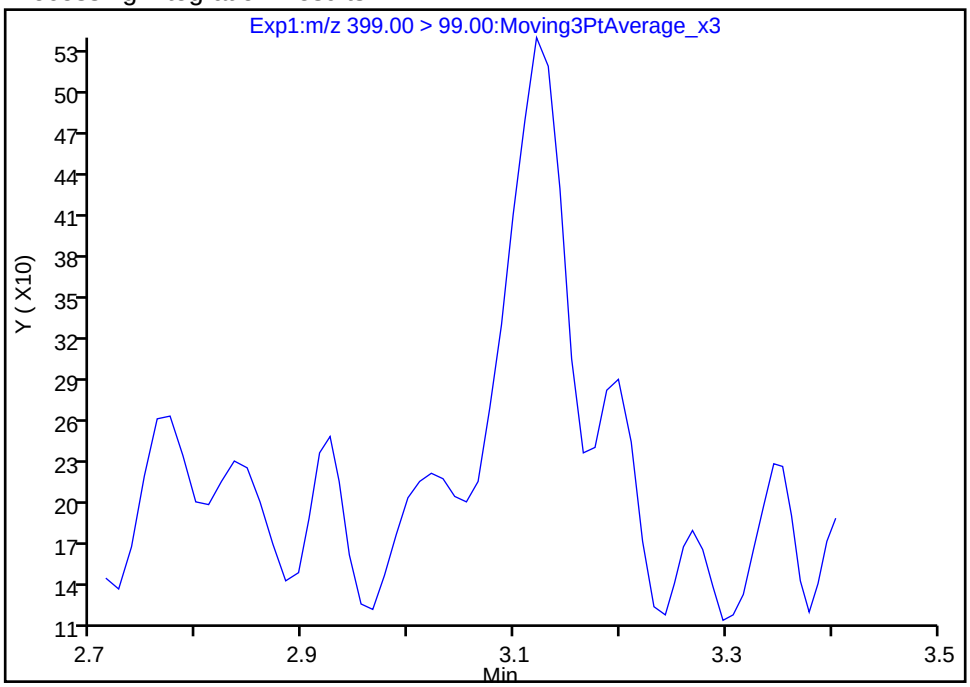
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

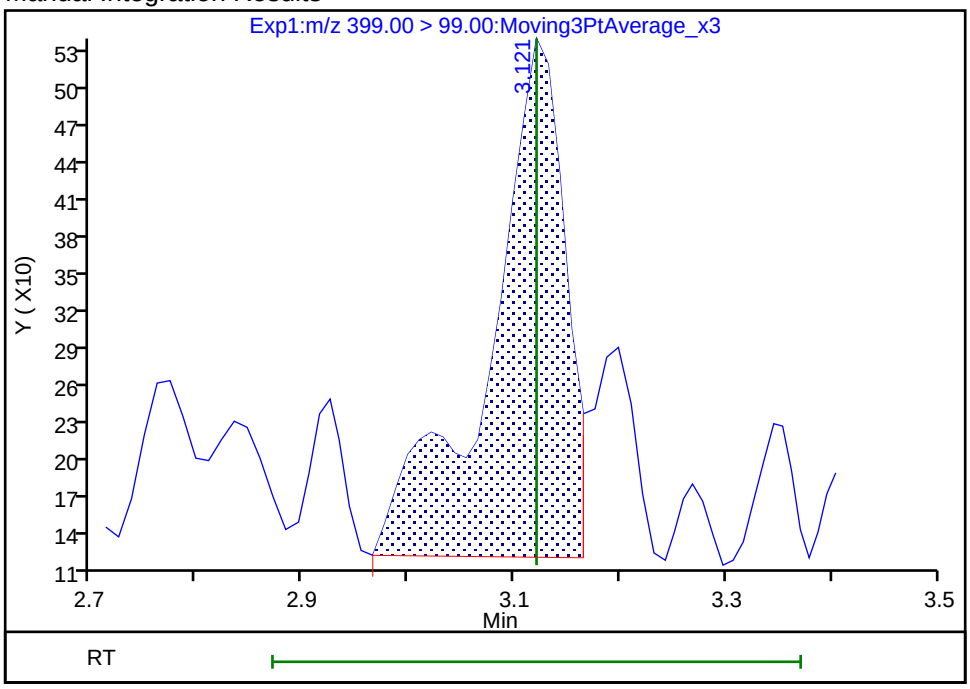
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.12
Area: 2059
Amount: 0.005726
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:39:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

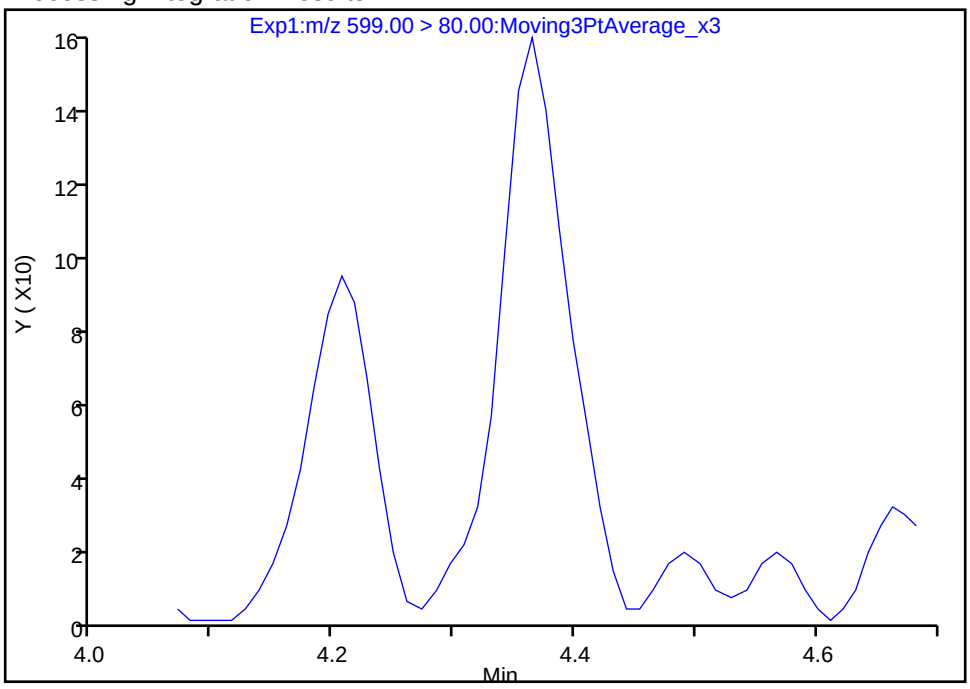
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

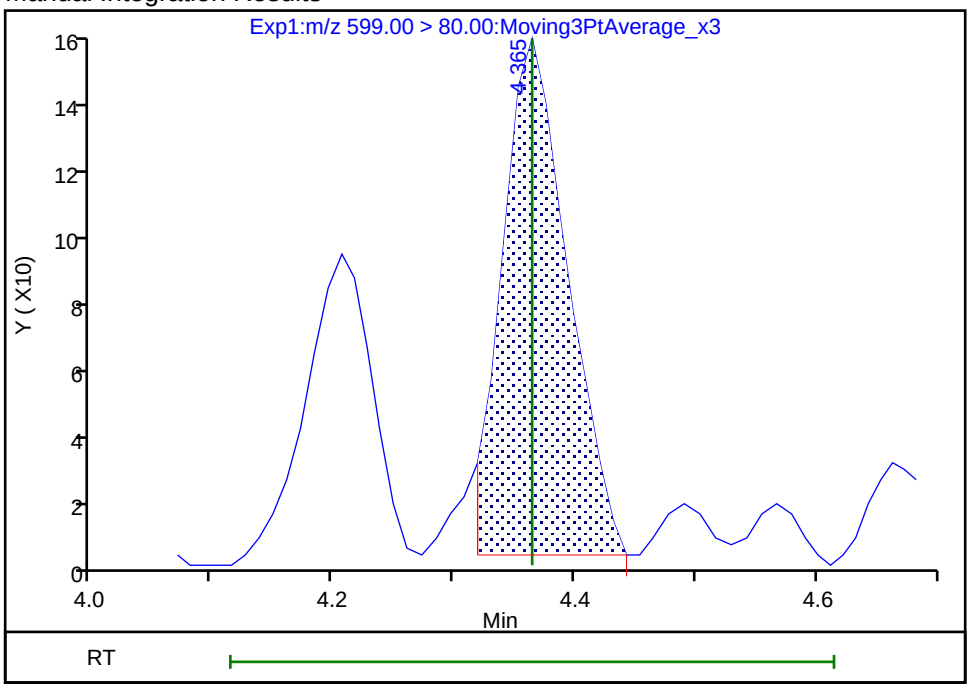
Not Detected
Expected RT: 4.36

Processing Integration Results



Manual Integration Results

RT: 4.36
Area: 565
Amount: 0.001044
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:41:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

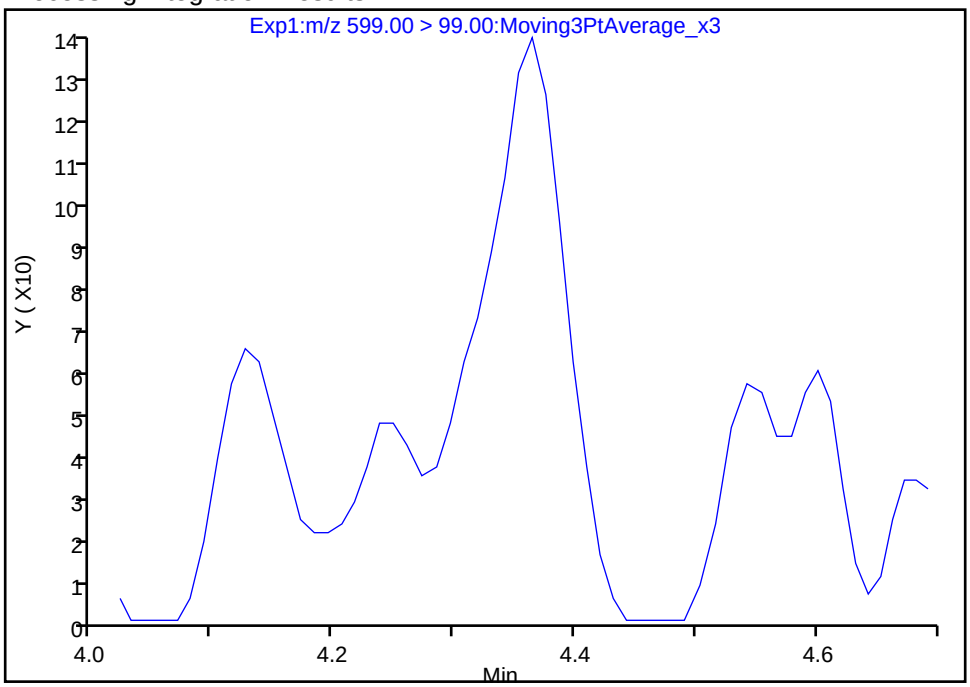
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

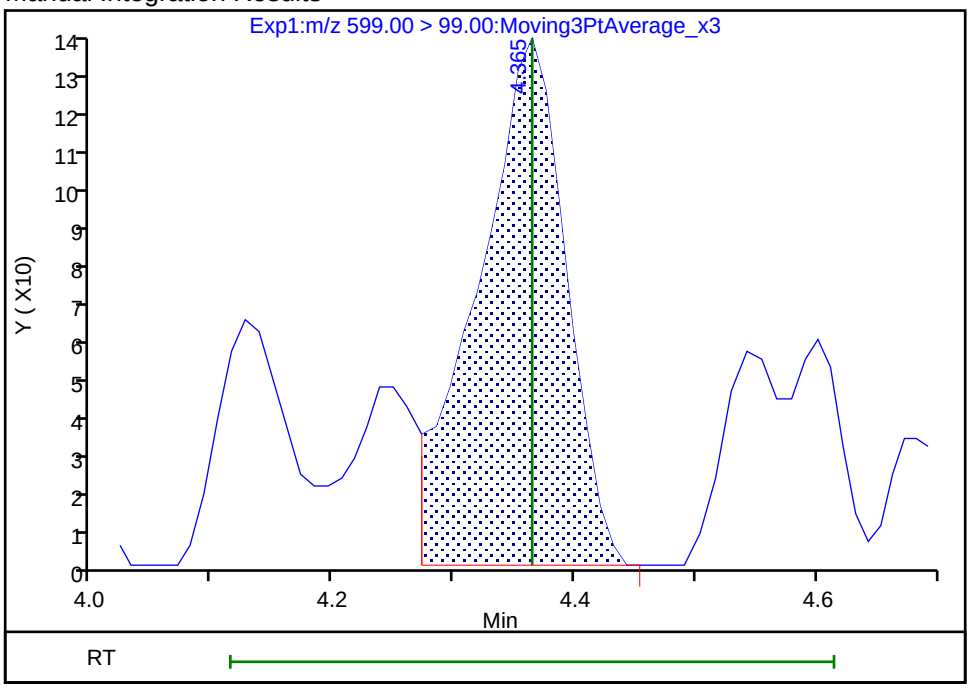
Not Detected
Expected RT: 4.36

Processing Integration Results



Manual Integration Results

RT: 4.36
Area: 674
Amount: 0.001044
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:41:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

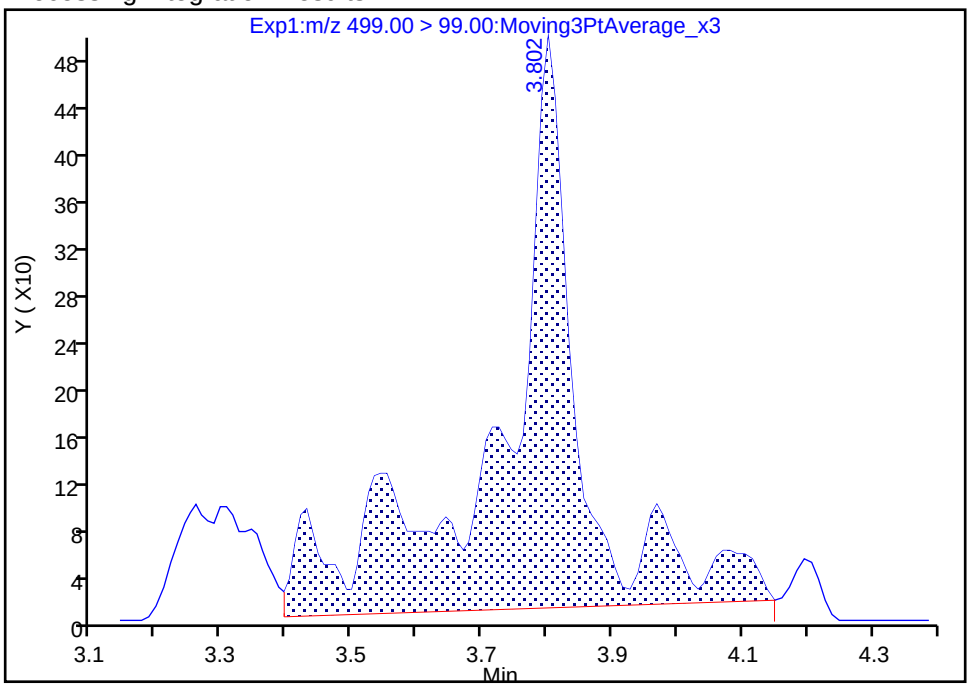
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

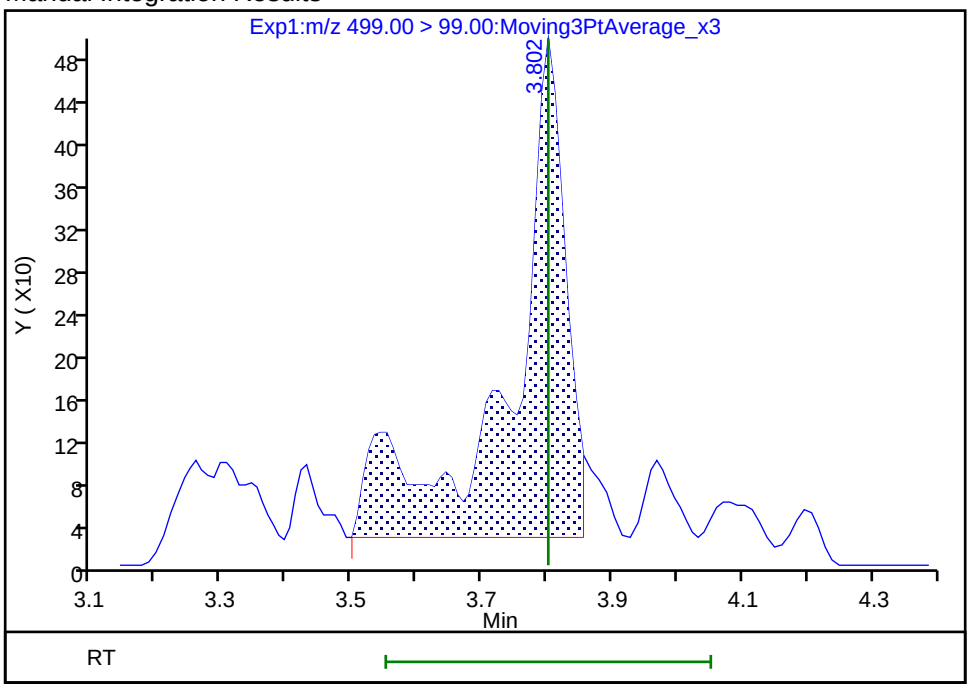
Processing Integration Results

RT: 3.80
Area: 4154
Amount: 0.016803
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 2750
Amount: 0.009244
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:39:59

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

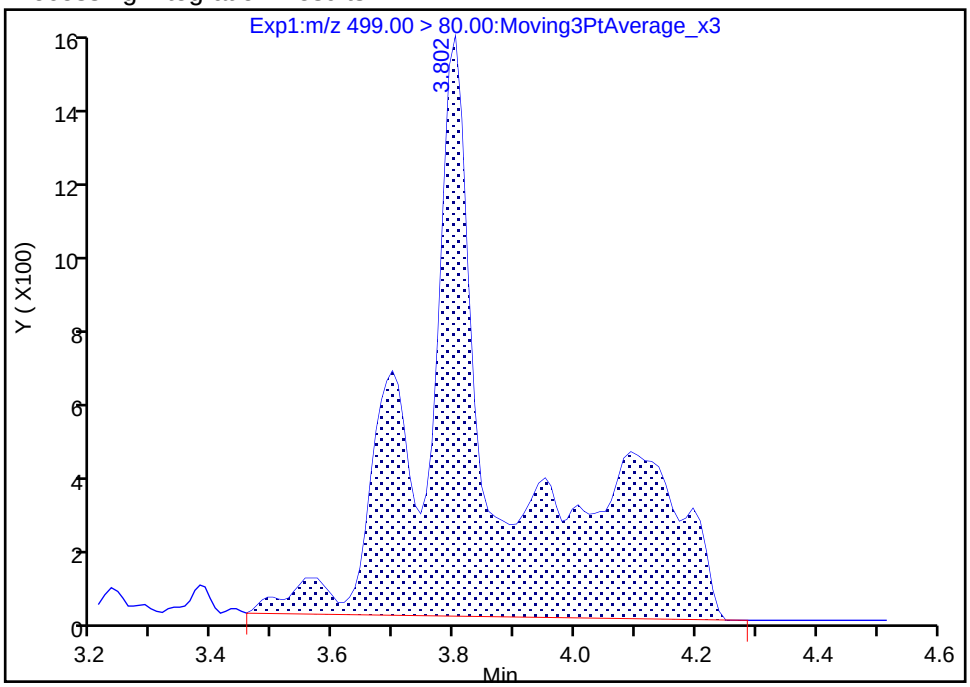
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

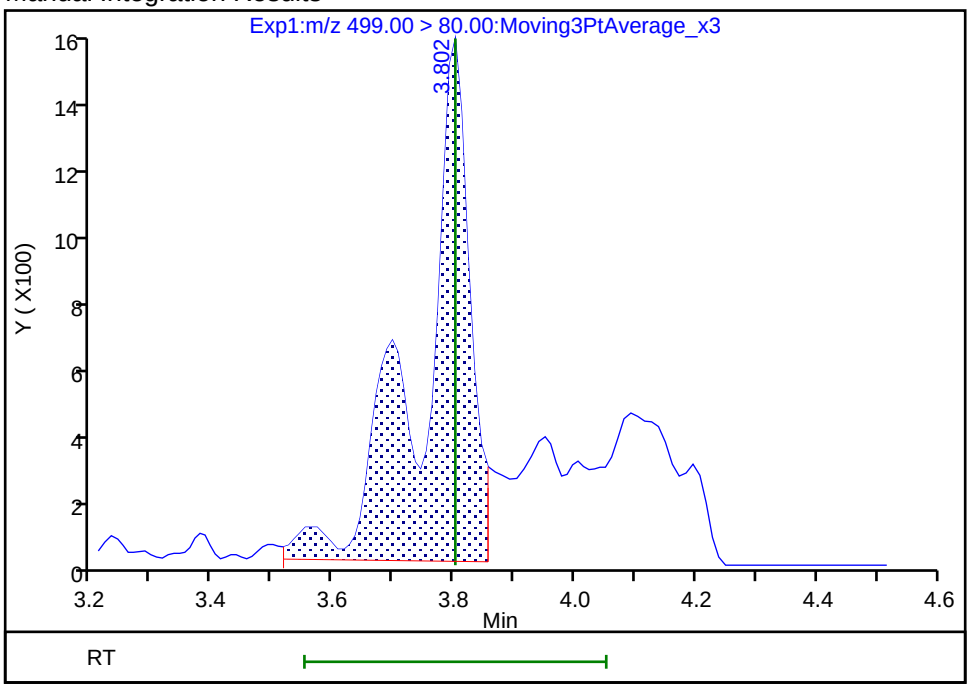
Processing Integration Results

RT: 3.80
Area: 15739
Amount: 0.016803
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 8658
Amount: 0.009244
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:47:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

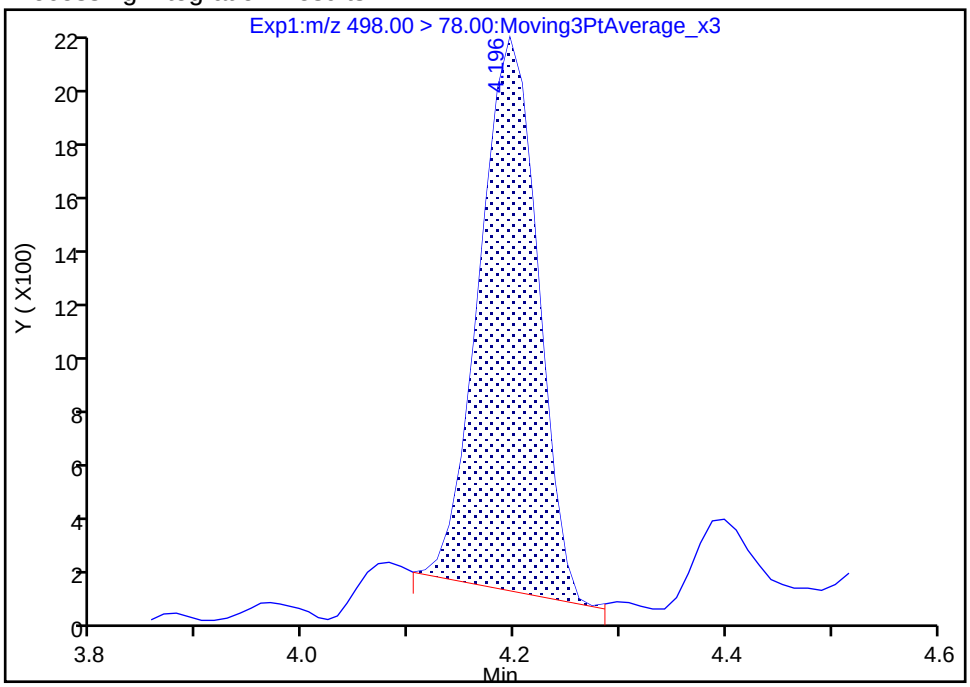
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

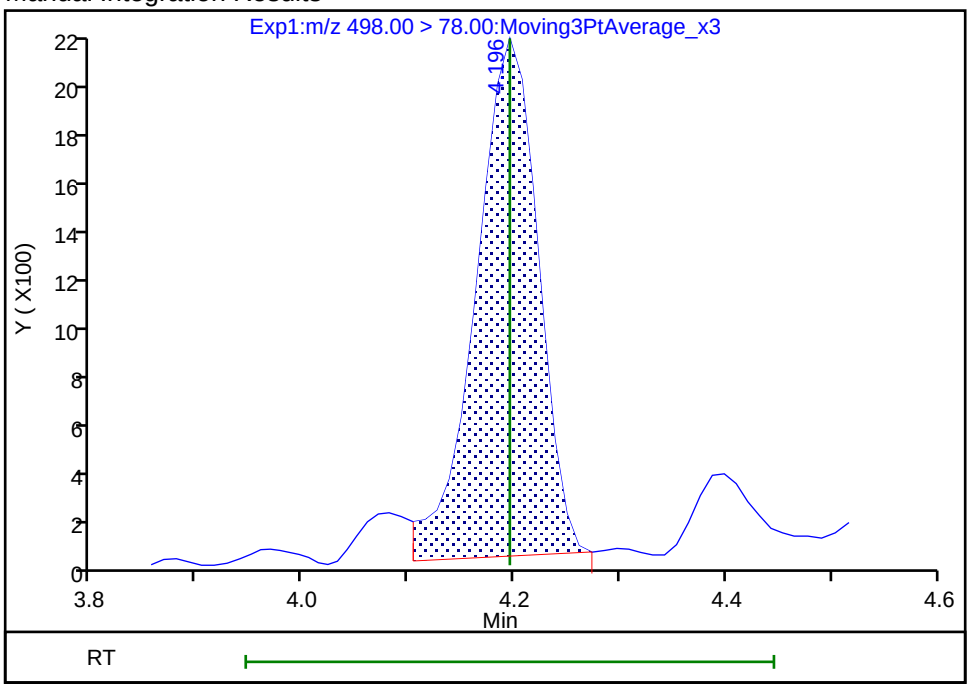
Processing Integration Results

RT: 4.20
Area: 7664
Amount: 0.005746
Amount Units: ng/ml



Manual Integration Results

RT: 4.20
Area: 8433
Amount: 0.006359
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:47:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

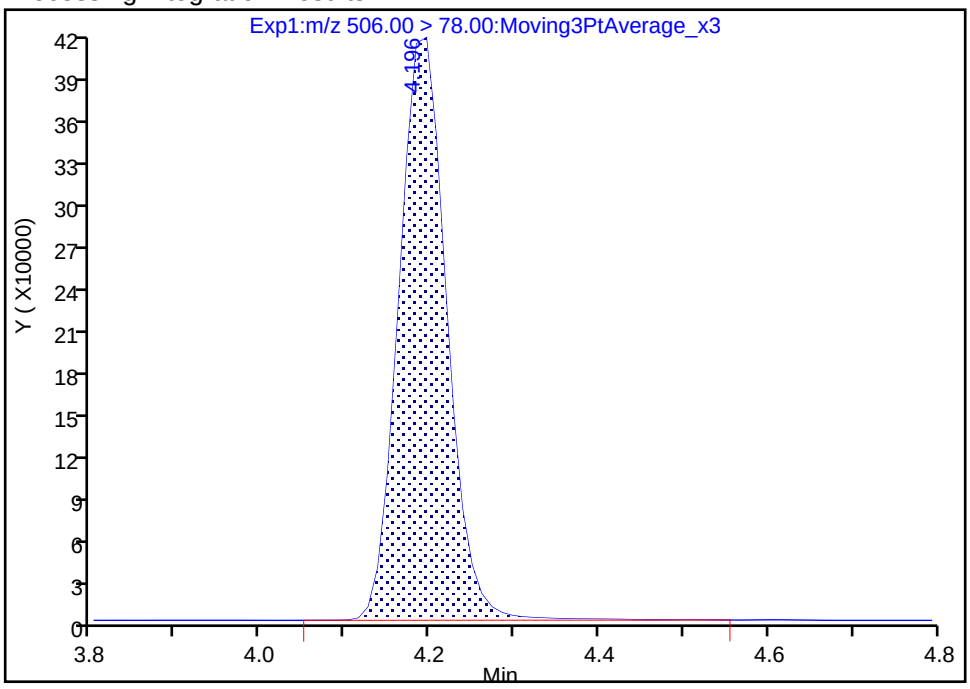
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

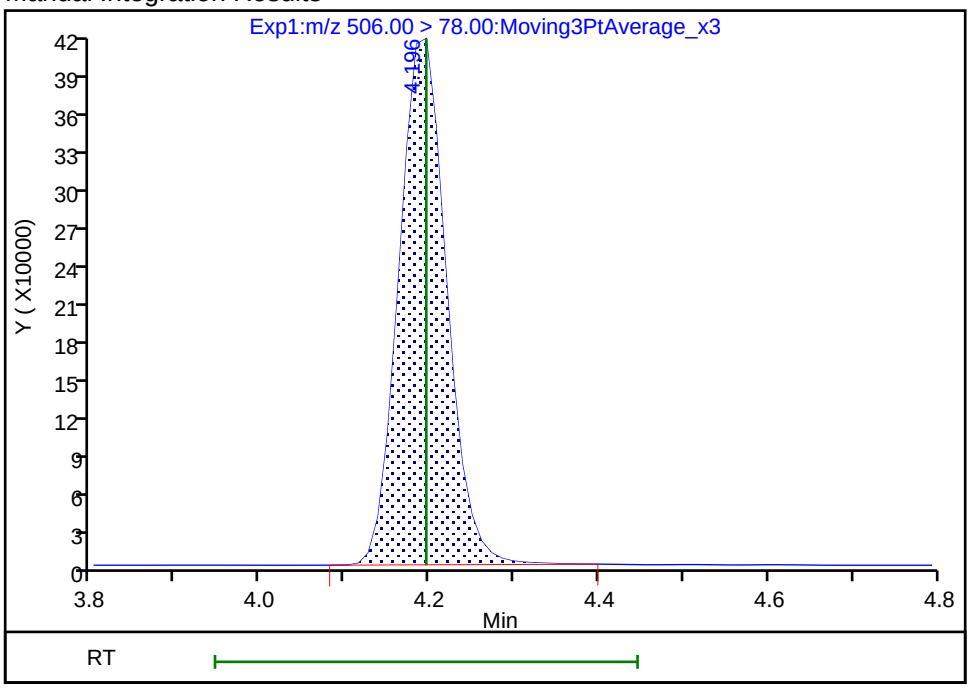
Processing Integration Results

RT: 4.20
Area: 1643191
Amount: 1.061325
Amount Units: ng/ml



Manual Integration Results

RT: 4.20
Area: 1633735
Amount: 1.055217
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:47:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

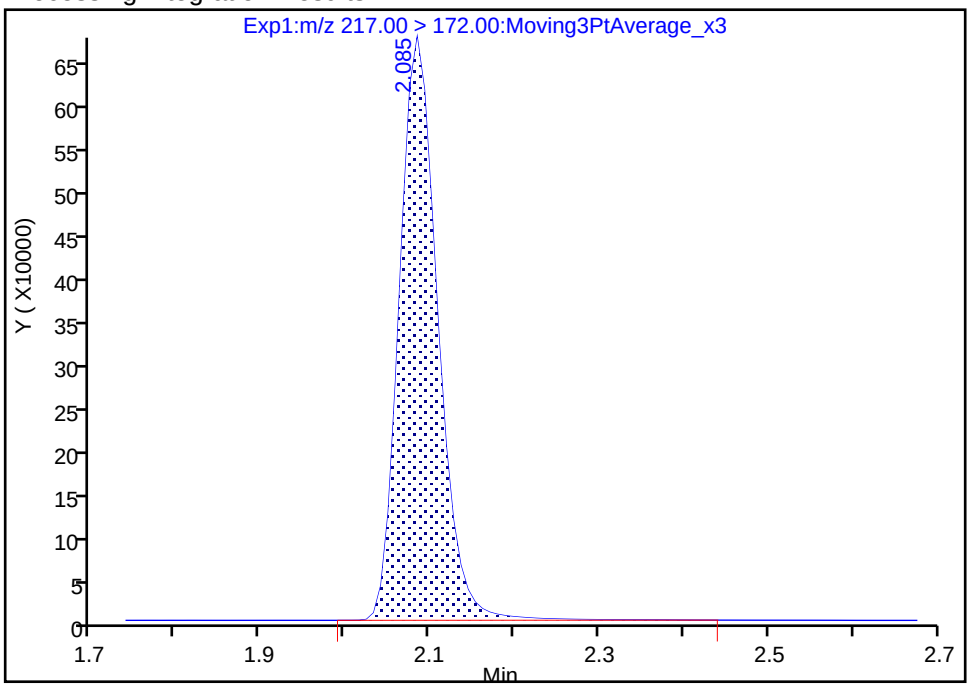
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

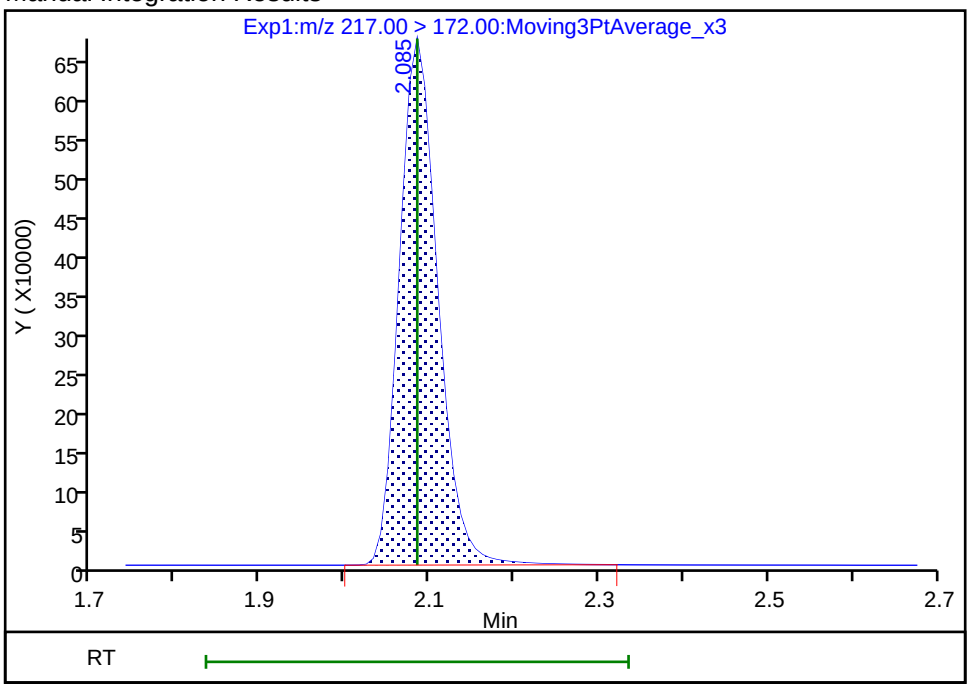
Processing Integration Results

RT: 2.08
Area: 2112099
Amount: 1.392669
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 2106650
Amount: 1.389076
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:46:33

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

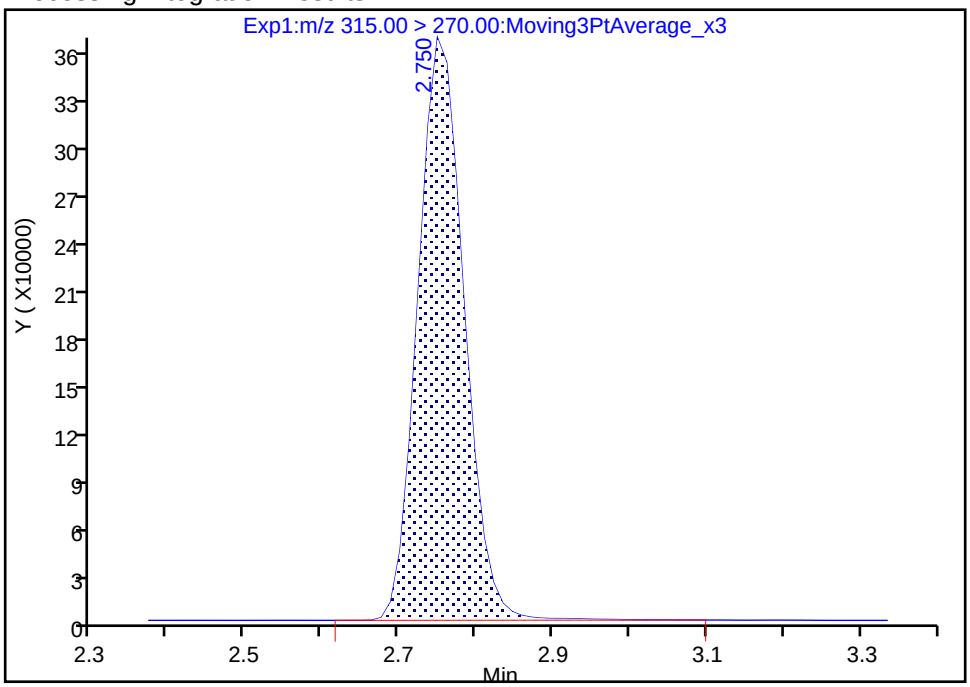
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

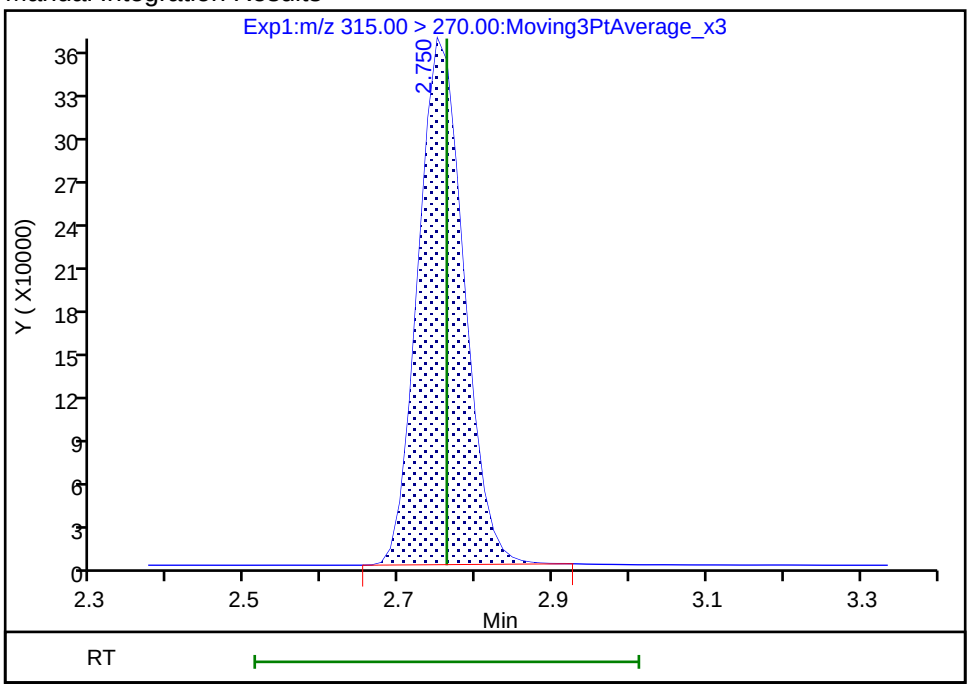
Processing Integration Results

RT: 2.75
Area: 1528821
Amount: 1.289647
Amount Units: ng/ml



Manual Integration Results

RT: 2.75
Area: 1518430
Amount: 1.280882
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:46:43

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

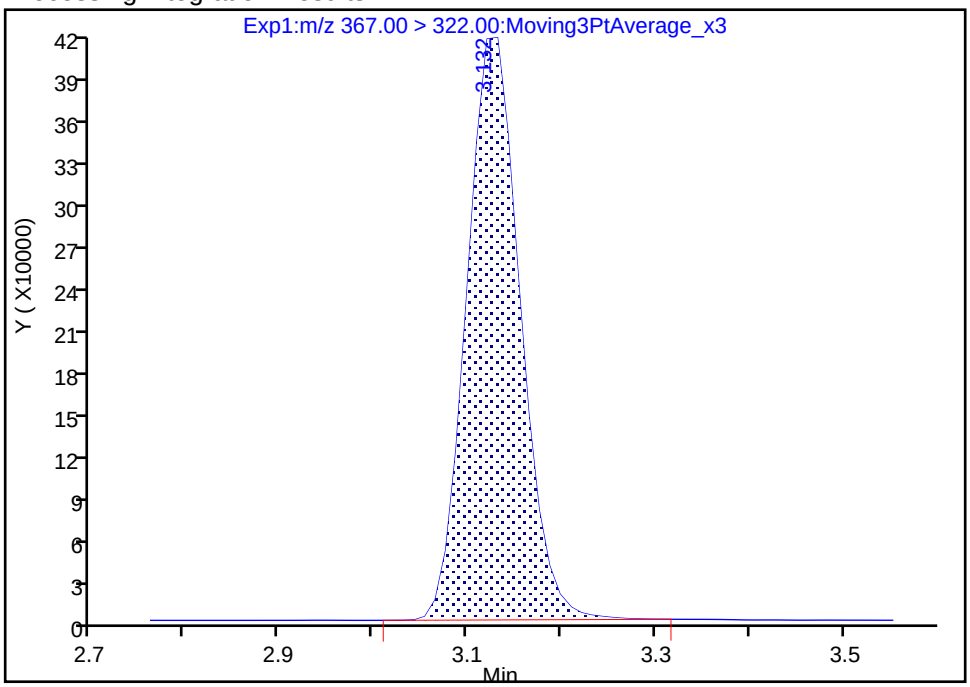
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

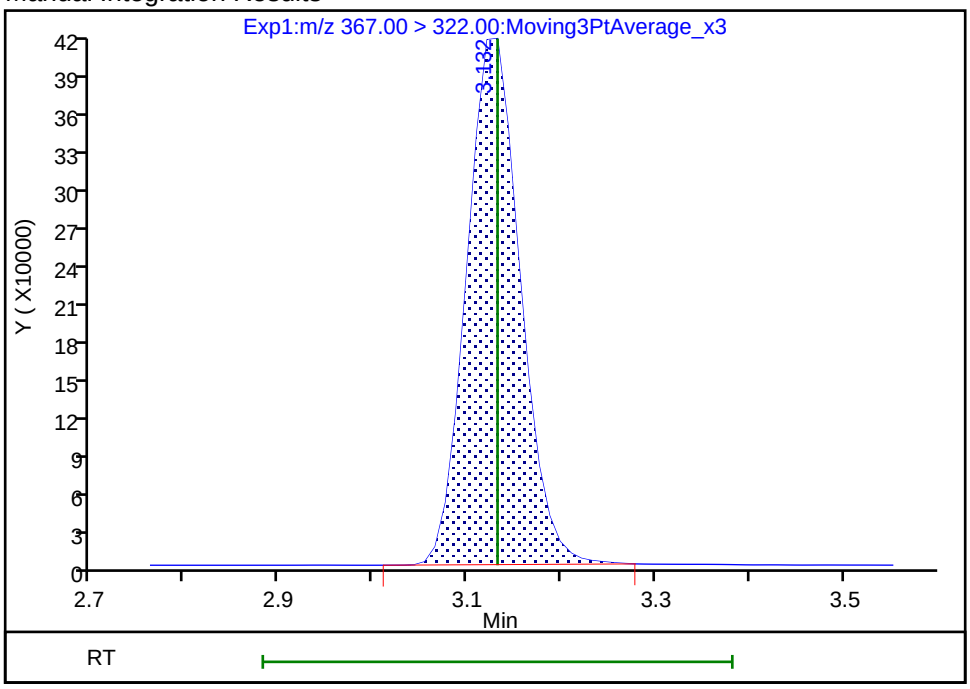
Processing Integration Results

RT: 3.13
Area: 1666913
Amount: 1.303251
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 1663268
Amount: 1.300401
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:46:55

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

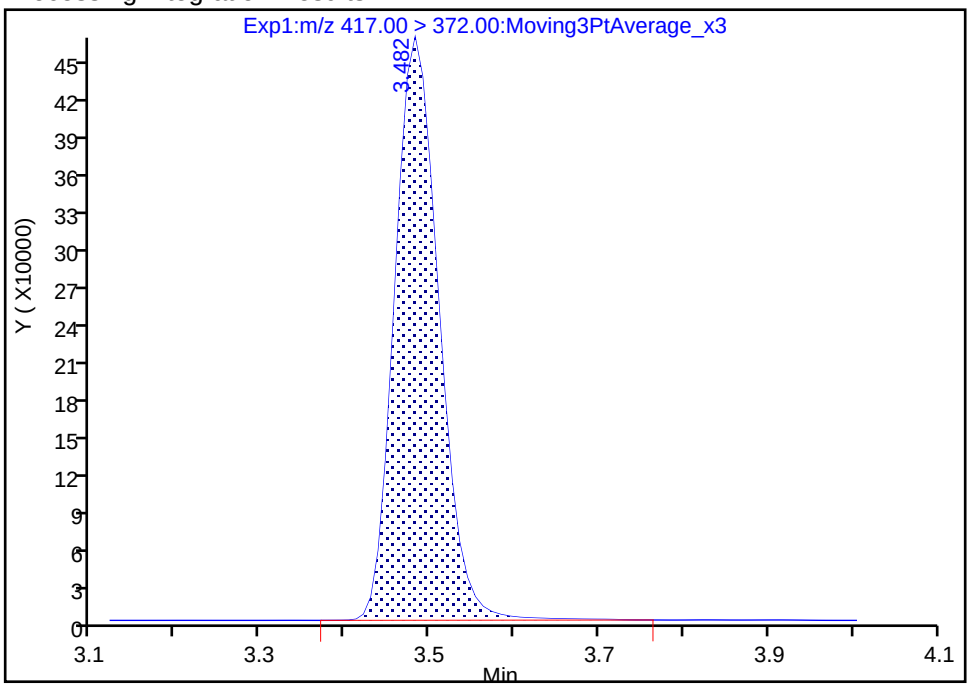
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

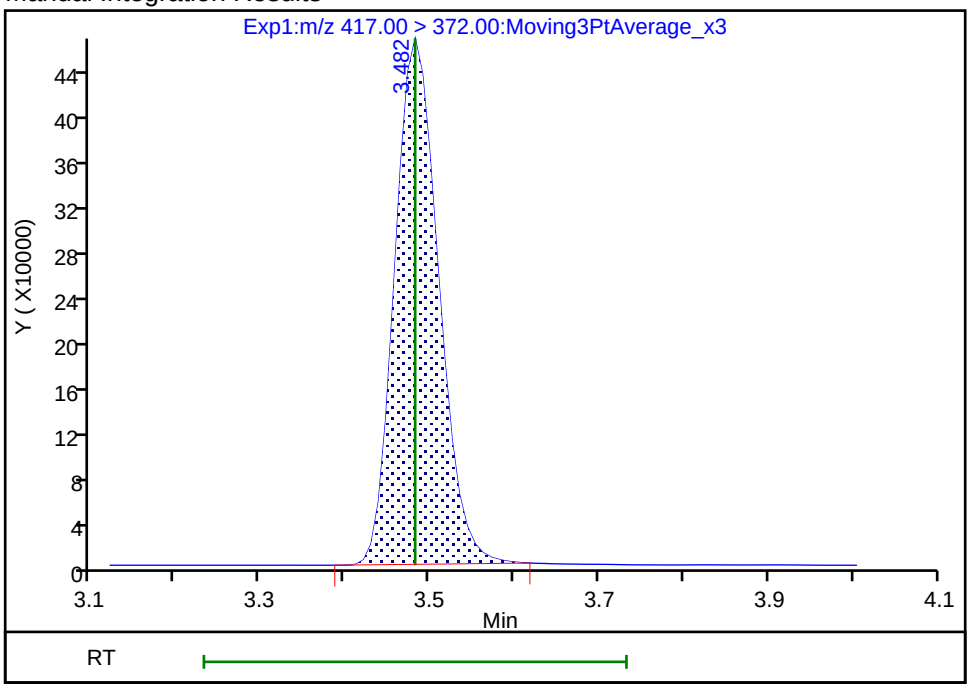
Processing Integration Results

RT: 3.48
Area: 1688446
Amount: 1.255380
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 1670577
Amount: 1.242094
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:47:10

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

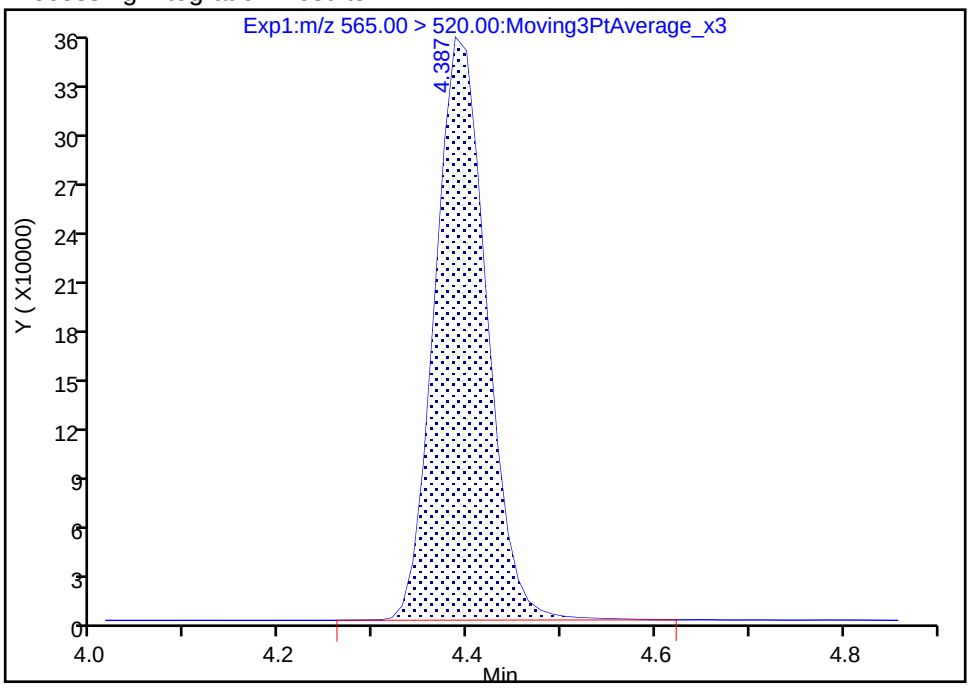
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

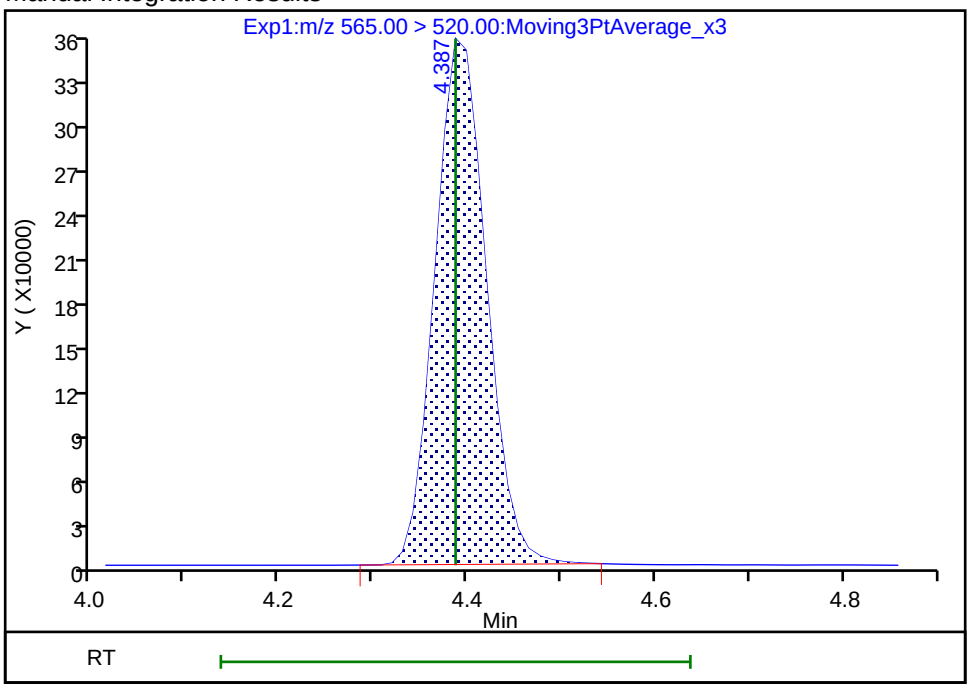
Processing Integration Results

RT: 4.39
Area: 1333040
Amount: 1.179814
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 1324945
Amount: 1.172650
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:47:56

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

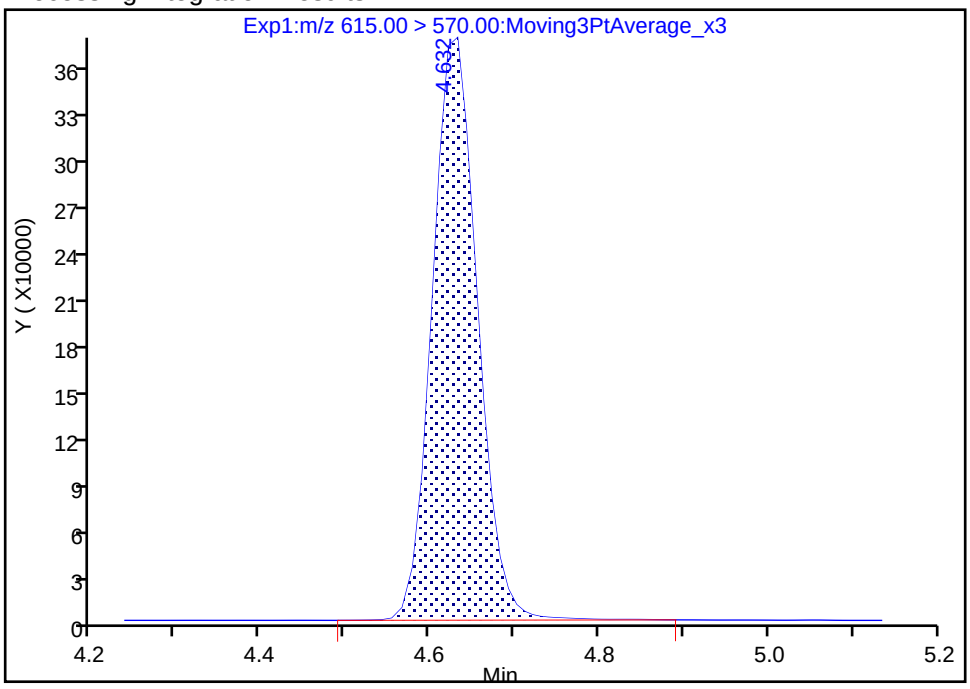
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 36 13C2 PFDoA, CAS: STL00998

Signal: 1

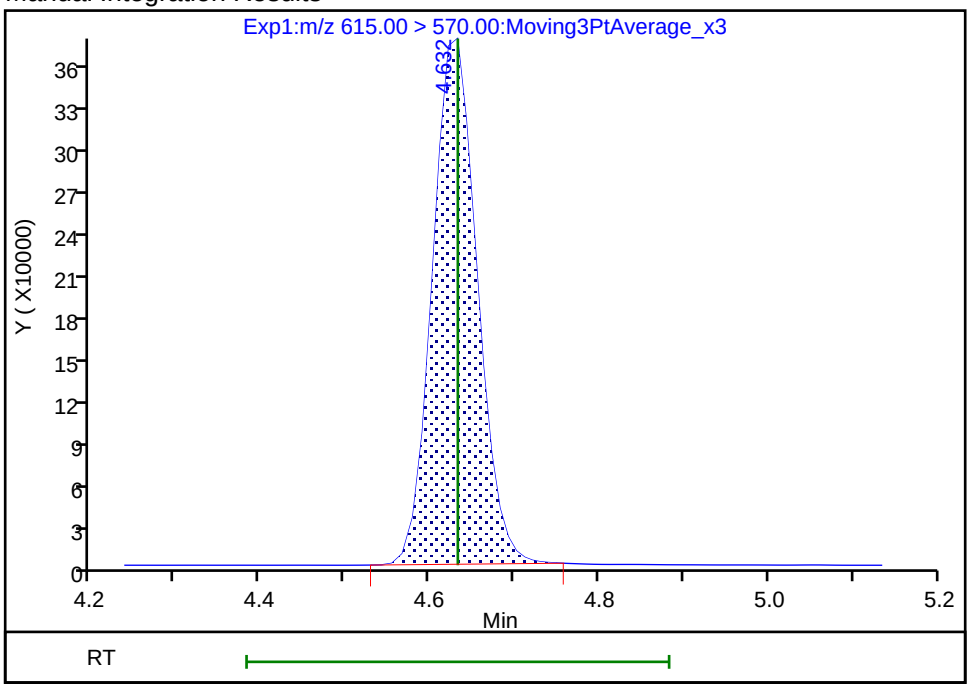
Processing Integration Results

RT: 4.63
Area: 1382819
Amount: 1.145992
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 1370756
Amount: 1.135995
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:48:08

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

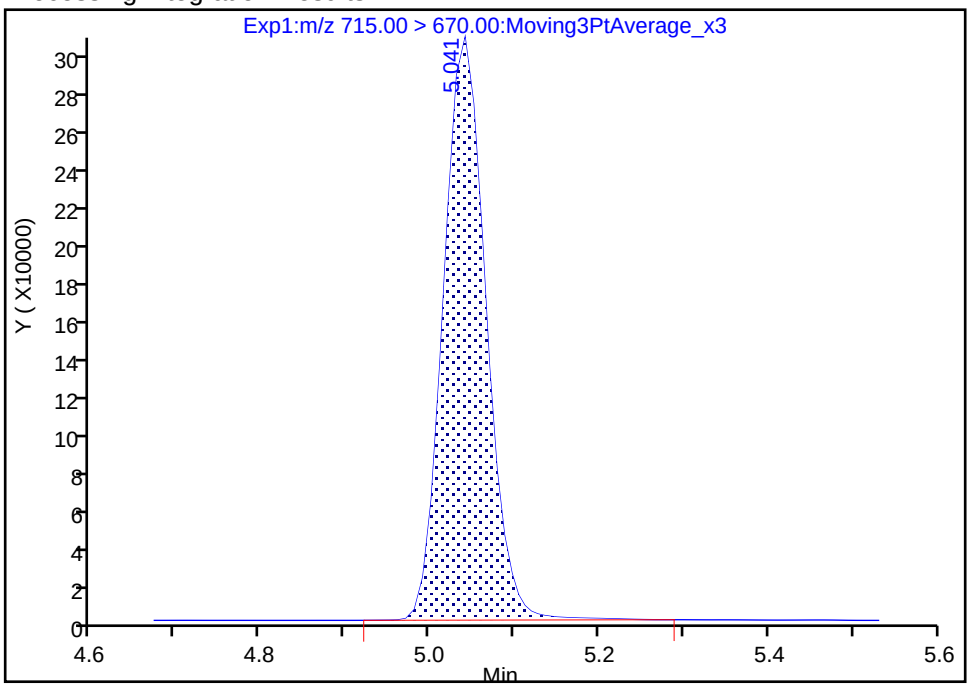
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

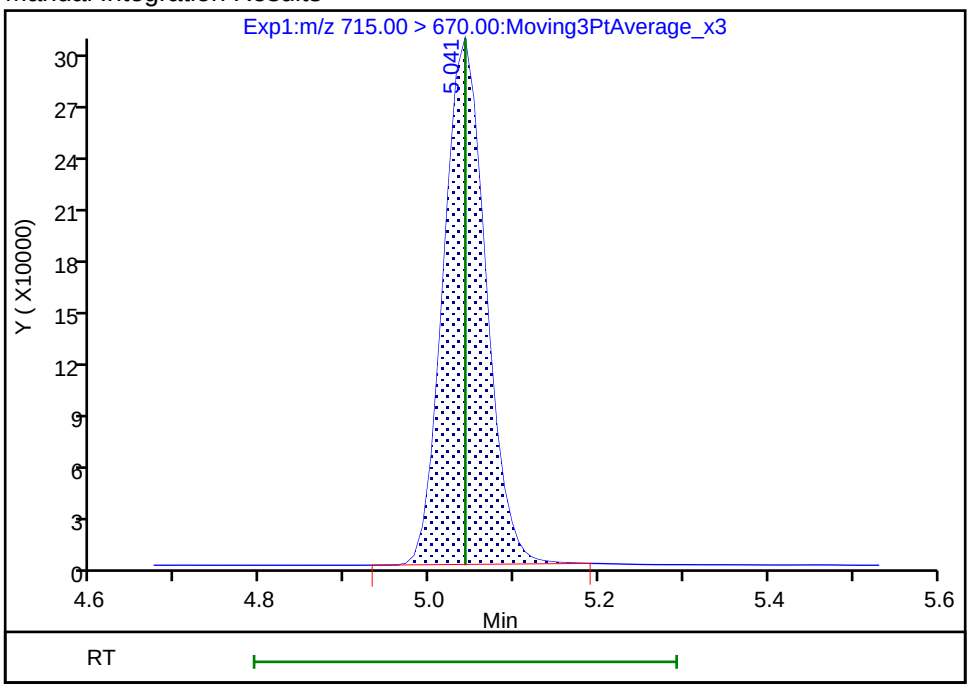
Processing Integration Results

RT: 5.04
Area: 1074219
Amount: 1.089255
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 1065865
Amount: 1.080784
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:48:18

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

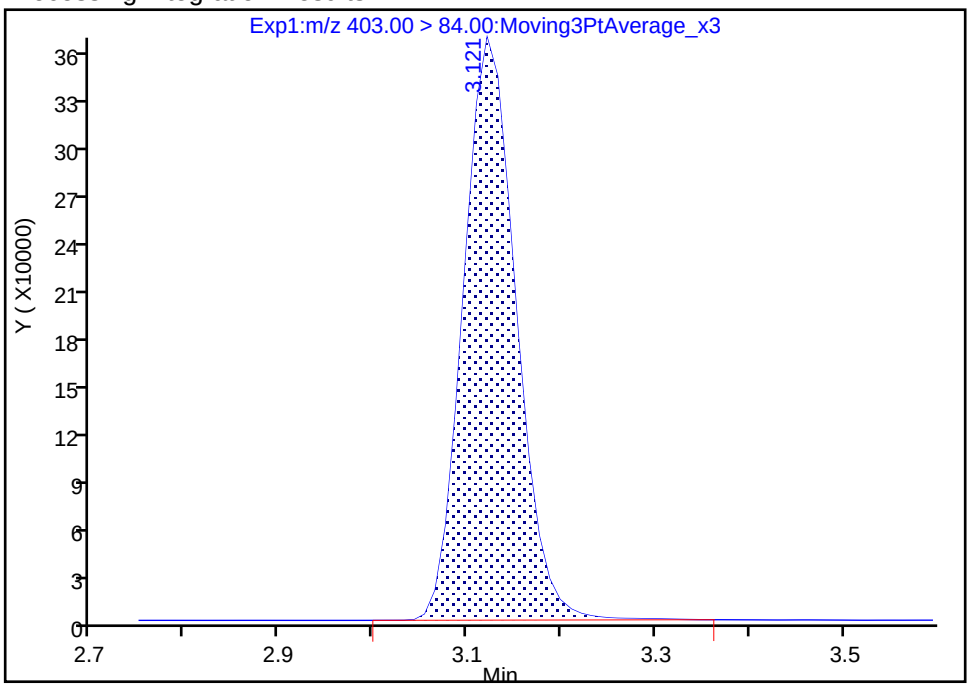
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

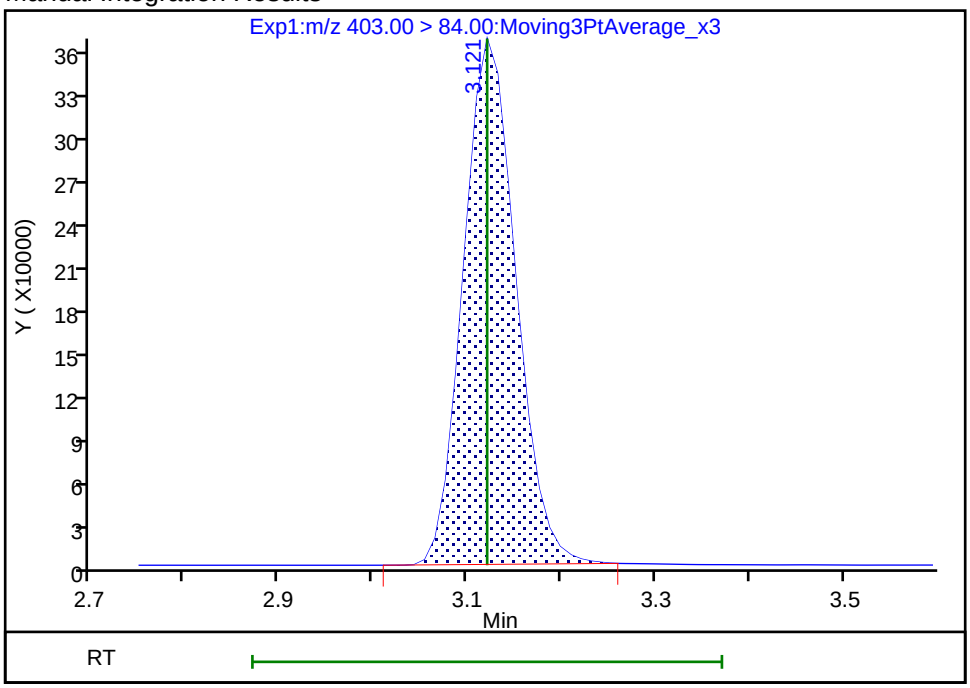
Processing Integration Results

RT: 3.12
Area: 1418452
Amount: 1.078850
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 1408262
Amount: 1.071099
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:46:49

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

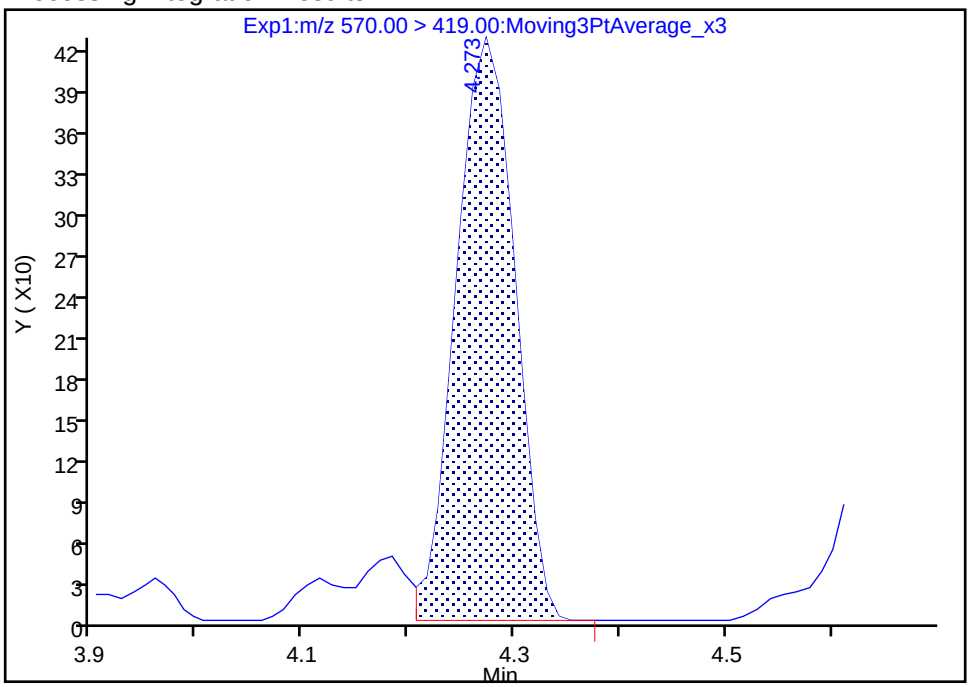
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

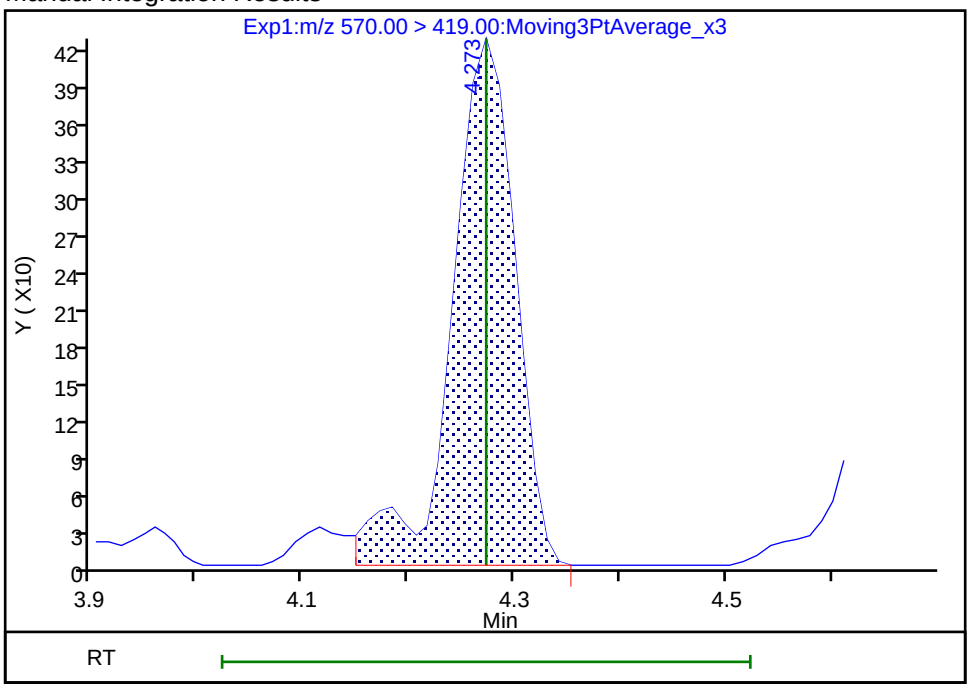
Processing Integration Results

RT: 4.27
Area: 1650
Amount: 0.008340
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 1776
Amount: 0.008977
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:41:24

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

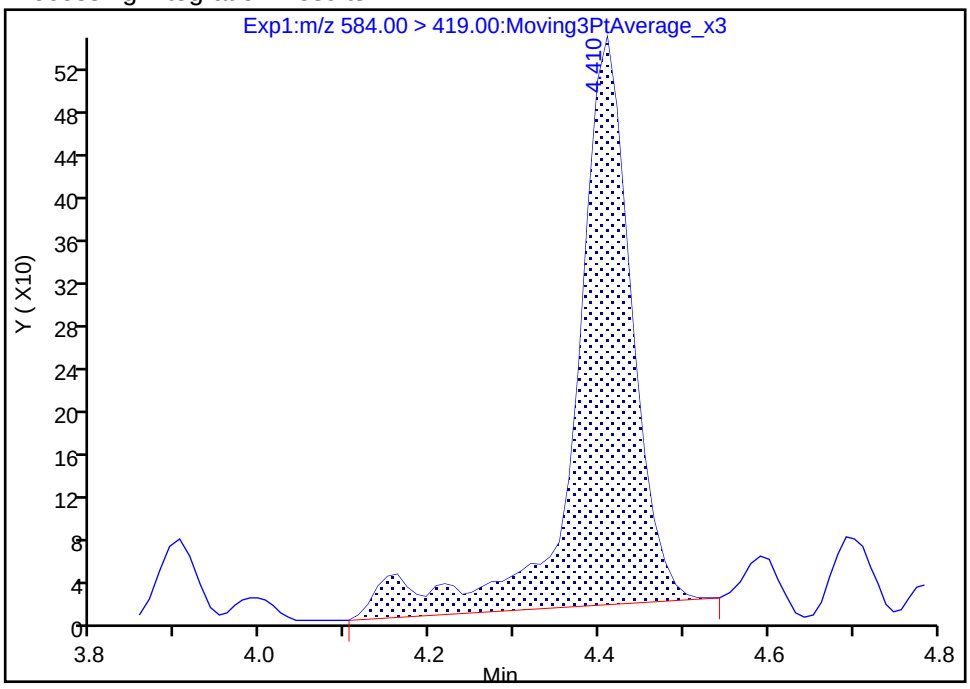
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

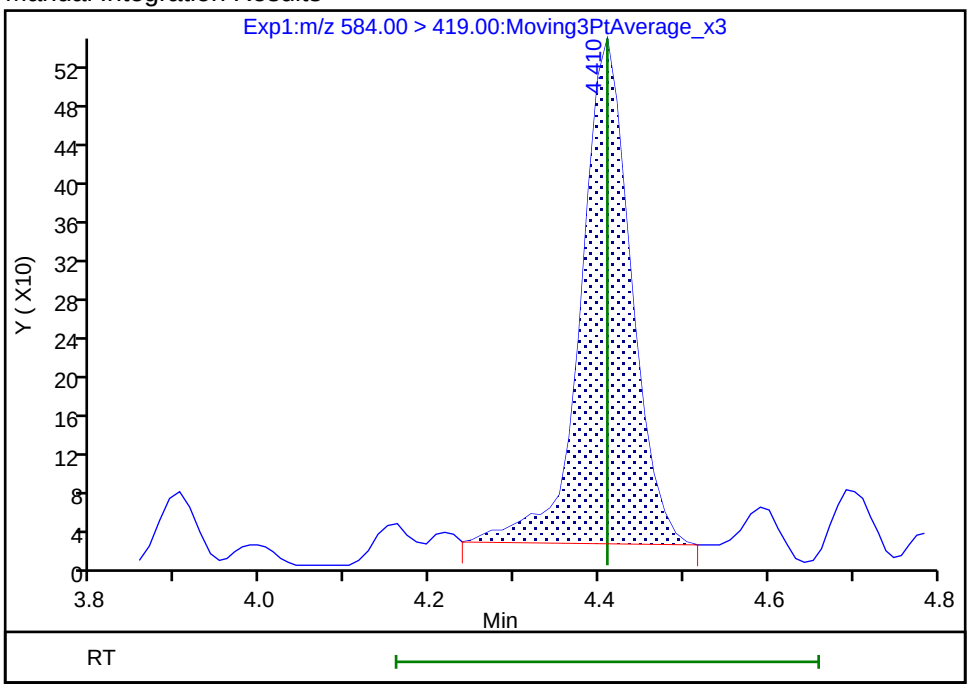
Processing Integration Results

RT: 4.41
Area: 2493
Amount: 0.012752
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 2145
Amount: 0.010972
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:42:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

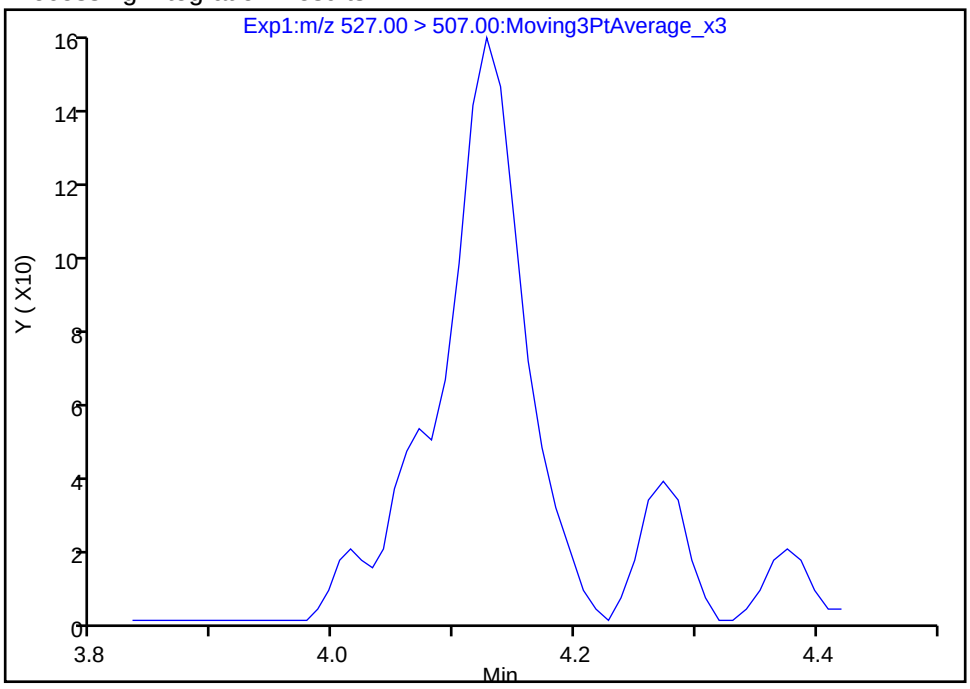
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

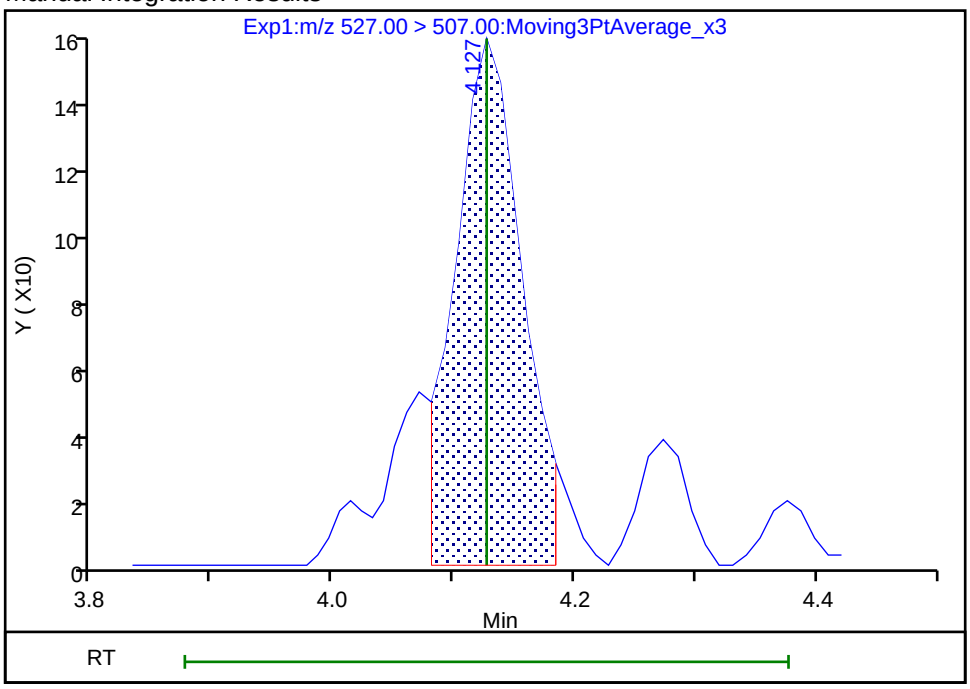
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.13
Area: 584
Amount: 0.002235
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:41:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

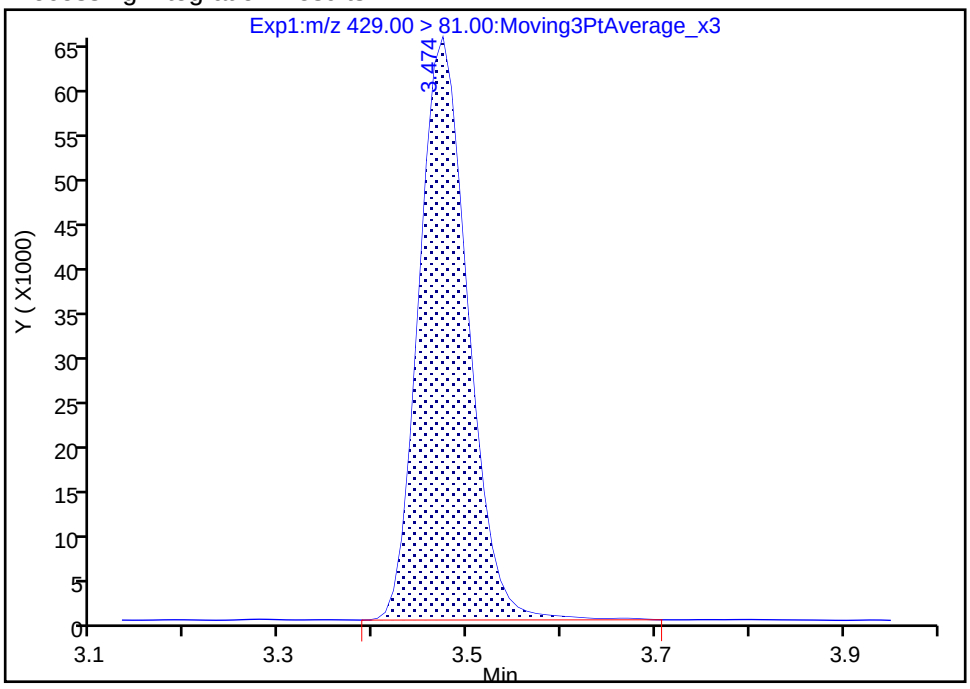
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A18.d				
Injection Date:	13-Jun-2022 19:27:59	Instrument ID:	LC812		
Lims ID:	480-198818-D-1-A	Lab Sample ID:	200-198818-1		
Client ID:	MW-1A				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 12 M2-6:2 FTS, CAS: STL02279

Signal: 1

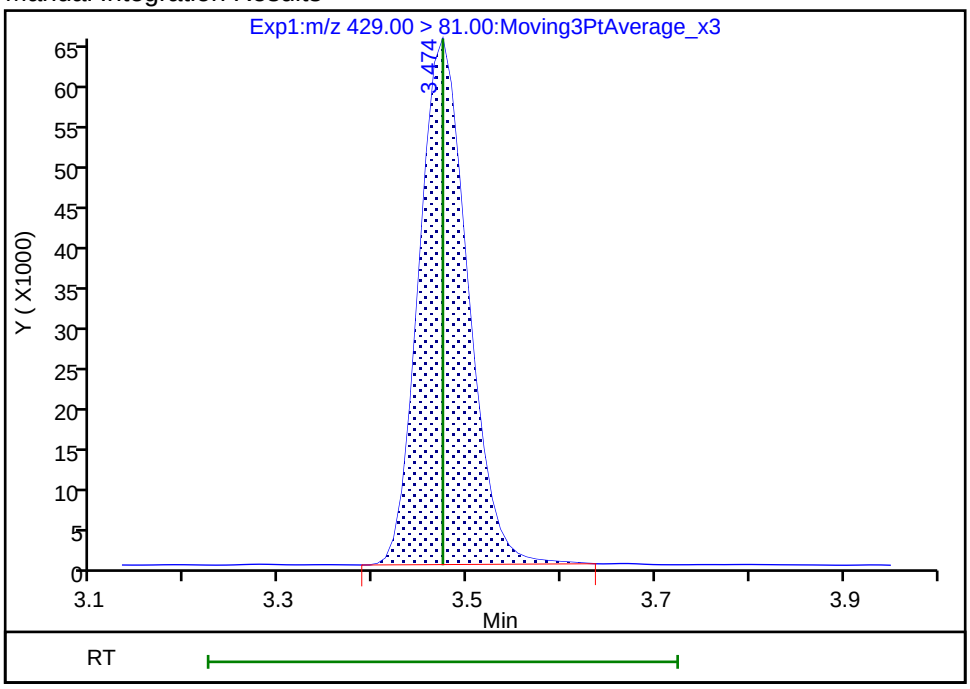
Processing Integration Results

RT: 3.47
Area: 236626
Amount: 1.103262
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 235250
Amount: 1.096846
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:47:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-2A Lab Sample ID: 480-198818-2

Matrix: Water Lab File ID: PA220613A19.d

Analysis Method: 537 (modified) Date Collected: 06/08/2022 10:45

Extraction Method: 3535 Date Extracted: 06/13/2022 08:55

Sample wt/vol: 288.8(mL) Date Analyzed: 06/13/2022 19:36

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 180744 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
375-22-4	Perfluorobutanoic acid (PFBA)	5.3		4.3	
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.2		1.7	
307-24-4	Perfluorohexanoic acid (PFHxA)	6.6		1.7	
375-85-9	Perfluoroheptanoic acid (PFHpA)	3.3		1.7	
335-67-1	Perfluorooctanoic acid (PFOA)	12		1.7	
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.7	
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.7	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.4		1.7	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	18		1.7	
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.7	
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3	
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.7		4.3	
27619-97-2	6:2 FTS	ND		4.3	
39108-34-4	8:2 FTS	ND		1.7	

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-2A Lab Sample ID: 480-198818-2

Matrix: Water Lab File ID: PA220613A19.d

Analysis Method: 537 (modified) Date Collected: 06/08/2022 10:45

Extraction Method: 3535 Date Extracted: 06/13/2022 08:55

Sample wt/vol: 288.8(mL) Date Analyzed: 06/13/2022 19:36

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 180744 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	74		50-150
STL00992	13C4 PFBA	84		50-150
STL01893	13C5 PFPeA	106		50-150
STL00993	13C2 PFHxA	93		50-150
STL01892	13C4 PFHpA	102		50-150
STL00990	13C4 PFOA	101		50-150
STL00995	13C5 PFNA	93		50-150
STL00996	13C2 PFDA	89		50-150
STL00997	13C2 PFUnA	81		50-150
STL00998	13C2 PFDoA	79		50-150
STL02116	13C2 PFTeDA	75		50-150
STL02337	13C3 PFBS	91		50-150
STL00994	18O2 PFHxS	89		50-150
STL00991	13C4 PFOS	79		50-150
STL02118	d3-NMeFOSAA	109		50-150
STL02117	d5-NEtFOSAA	105		50-150
STL02279	M2-6:2 FTS	106		50-150
STL02280	M2-8:2 FTS	89		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d
Lims ID: 480-198818-C-2-A
Client ID: MW-2A
Sample Type: Client
Inject. Date: 13-Jun-2022 19:36:09 ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-198818-C-2-A
Misc. Info.: 200-0051257-019 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 14-Jun-2022 14:35:47 Calib Date: 05-May-2022 15:54:29
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1636

First Level Reviewer: khanphomeea Date: 14-Jun-2022 11:48:04
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	2.085	2.085	0.0	0.599	1487034	1.05		84.2	3380	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.093	-0.008	1.000	172129	0.1533			8.8	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.400	0.0	0.689	1433118	1.33		106	791	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.400	2.400	0.0	1.000	73557	0.0630			0.6	M
D 47 13C3 PFBS										
301.90 > 80.00	2.413	2.427	-0.014	0.693	1655370	1.06		90.9	16372	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.413	2.427	-0.014	1.000	60216	0.0388	Target=2.15		2.2	
298.90 > 99.00	2.413	2.427	-0.014	1.000	29798		2.02(1.07-3.22)		2.3	M
D 7 13C2 PFHxA										M
315.00 > 270.00	2.750	2.762	-0.012	0.790	1285712	1.16		93.1	1838	M
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.750	2.762	-0.012	1.000	210273	0.1894	Target=12.59		6.9	M
313.00 > 119.00	2.750	2.762	-0.012	1.000	16101		13.06(6.29-18.88)		8.7	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.121	3.121	0.0	0.896	1291123	1.05		89.1	2779	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.121	3.121	0.0	1.000	82701	0.0685	Target=3.53		14.9	M
399.00 > 99.00	3.121	3.121	0.0	1.000	27919		2.96(1.76-5.29)		10.9	M
D 9 13C4 PFHpA										M
367.00 > 322.00	3.121	3.132	-0.011	0.896	1525860	1.28		102	1551	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.121	3.132	-0.011	1.000	117474	0.0952	Target=3.75		6.6	M
363.00 > 169.00	3.132	3.132	0.0	1.004	32005		3.67(1.87-5.62)		23.9	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.474	3.474	0.0	0.914	11509	0.0126	Target=4.90		6.0	
449.00 > 99.00	3.474	3.474	0.0	0.914	2225		5.17(2.45-7.35)		2.0	M
D 12 M2-6:2 FTS										M
429.00 > 81.00	3.474	3.474	0.0	0.998	252408	1.26		106	162	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.465	3.474	-0.009	0.997	3816	-0.0157			1.9	M
* 62 13C2 PFOA										
415.00 > 370.00	3.482	3.482	0.0		1663774	1.25			2943	
D 14 13C4 PFOA										M
417.00 > 372.00	3.482	3.482	0.0	1.000	1589733	1.27		101	1470	M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.482	3.482	0.0	1.000	502922	0.3531	Target=2.68		26.5	M
413.00 > 169.00	3.482	3.482	0.0	1.000	204011		2.47(1.34-4.02)		177	M
D 18 13C4 PFOS										M
503.00 > 80.00	3.802	3.802	0.0	1.092	908043	0.9436		79.0	1097	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.802	3.802	0.0	1.000	433018	0.5336	Target=4.47		194	M
499.00 > 99.00	3.802	3.802	0.0	1.000	125358		3.45(2.24-6.71)		25.2	M
D 19 13C5 PFNA										M
468.00 > 423.00	3.822	3.822	0.0	1.098	1587173	1.17		93.3	2131	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.822	3.822	0.0	1.000	18343	0.0149	Target=7.74		2.8	M
463.00 > 169.00	3.822	3.822	0.0	1.000	1614		11.36(3.87-11.61)		4.4	M
D 23 13C2 PFDA										
515.00 > 470.00	4.127	4.127	0.0	1.185	1452336	1.11		88.6	2005	
24 Perfluorodecanoic acid										RM
513.00 > 469.00	4.115	4.127	-0.012	0.997	5856	0.004731	Target=9.31		1.6	RM
513.00 > 169.00	4.127	4.127	0.0	1.000	413		14.18(4.65-13.96)		1.1	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.115	4.127	-0.012	0.997	431	0.001803			6.7	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.127	4.127	0.0	1.185	257168	1.07		89.5	344	
D 21 13C8 FOSA										M
506.00 > 78.00	4.195	4.195	0.0	1.205	1336879	0.9268		74.1	1611	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.184	4.195	-0.011	0.997	4678	0.004311			5.6	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.261	4.261	0.0	1.224	237865	1.37		109	1360	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.261	4.273	-0.012	1.000	3388	0.0196			14.4	M
31 Perfluoroundecanoic acid										RM
563.00 > 519.00	4.365	4.387	-0.022	0.995	1857	0.002108	Target=9.41		1.6	RM
563.00 > 169.00	4.365	4.387	-0.022	0.995	439		4.23(4.70-14.11)		2.8	M
D 30 13C2 PFUnA										M
565.00 > 520.00	4.387	4.387	0.0	1.260	1068473	1.02		81.2	1628	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.398	4.398	0.0	1.263	222541	1.31		105	1009	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.410	4.410	0.0	1.003	22651	0.1356			166	M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.632	4.622	0.010	1.000	2742	0.002996	Target=6.95		0.6	
613.00 > 169.00	4.632	4.622	0.010	1.000	298		9.20(3.48-10.43)		3.4	M
D 36 13C2 PFDoA										M
615.00 > 570.00	4.632	4.633	-0.001	1.330	1109084	0.9865		78.9	1658	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.858	4.848	0.010	1.049	1950	0.002502	Target=4.44		0.4	M
663.00 > 169.00	4.847	4.848	-0.001	1.046	399		4.89(2.22-6.66)		4.0	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.041	5.032	0.009	1.000	344	0.003213	Target=0.96		11.1	M
713.00 > 219.00	5.041	5.032	0.009	1.000	281		1.22(0.48-1.44)		5.4	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.041	5.042	-0.001	1.448	866014	0.9425		75.4	1980	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

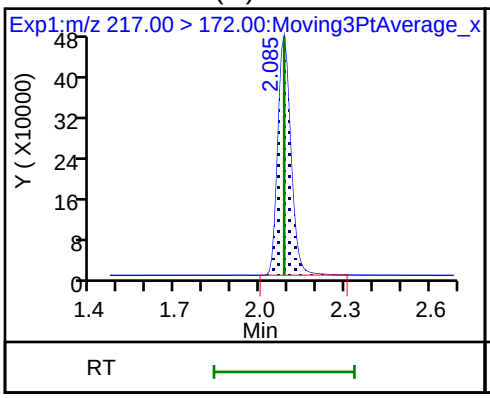
Report Date: 14-Jun-2022 14:36:00 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Burlington

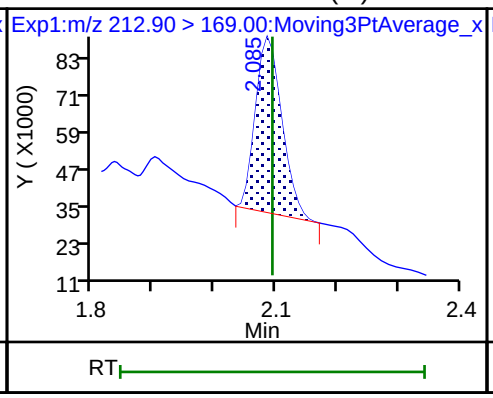
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d

Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		

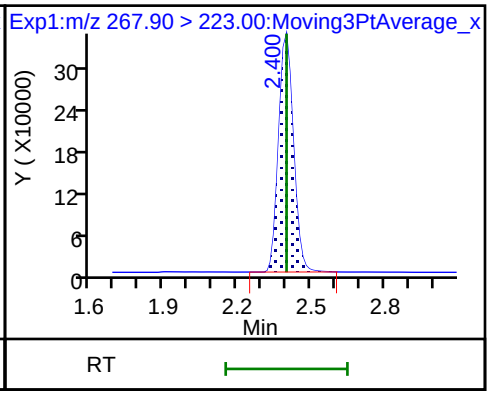
D 1 13C4 PFBA (M)



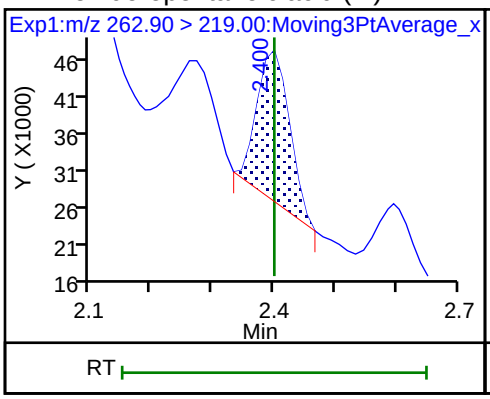
2 Perfluorobutanoic acid (M)



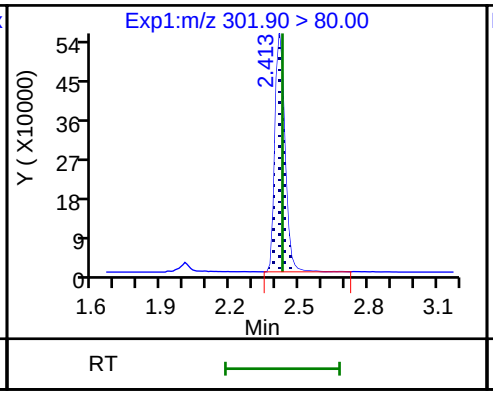
D 3 13C5 PFPeA



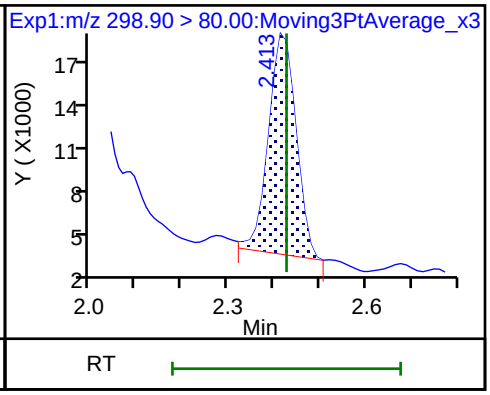
4 Perfluoropentanoic acid (M)



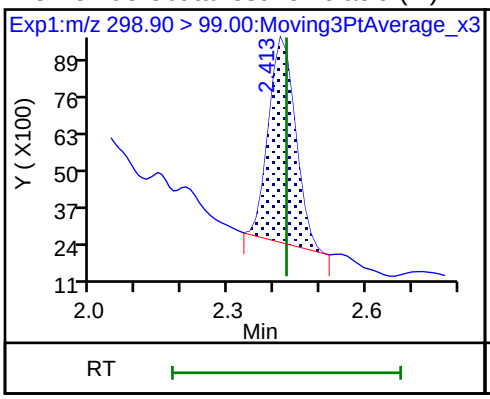
D 47 13C3 PFBS



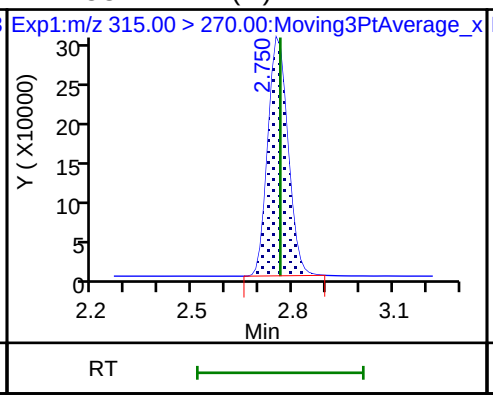
5 Perfluorobutanesulfonic acid



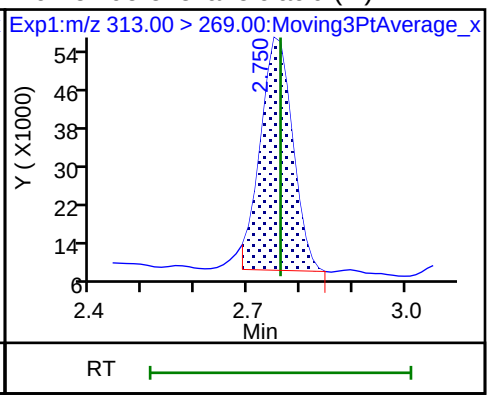
5 Perfluorobutanesulfonic acid (M)



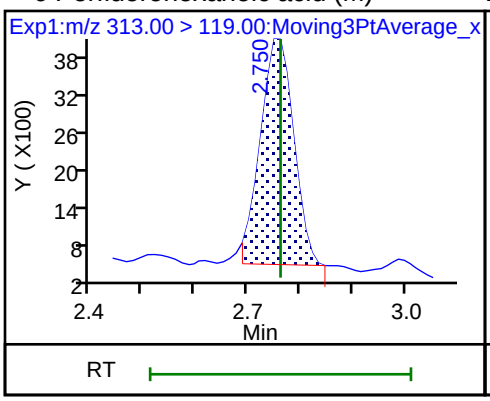
D 7 13C2 PFHxA (M)



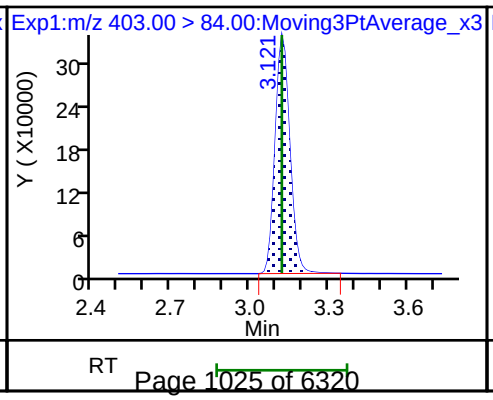
6 Perfluorohexanoic acid (M)



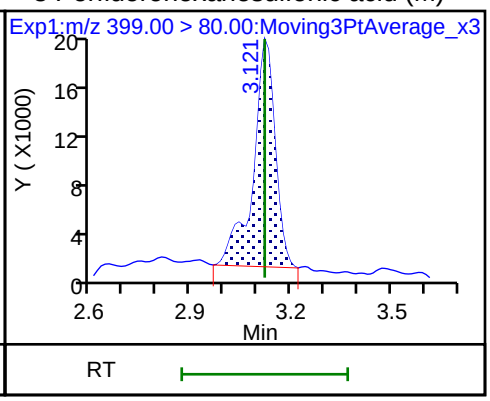
6 Perfluorohexanoic acid (M)



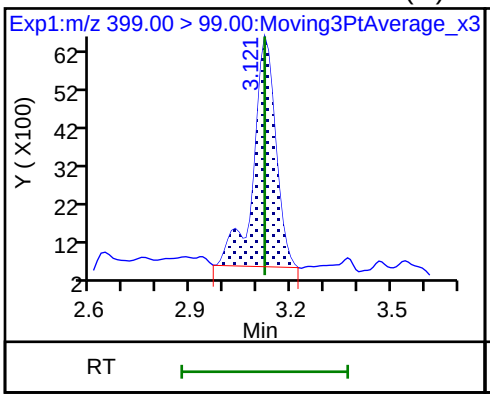
D 11 18O2 PFHxS



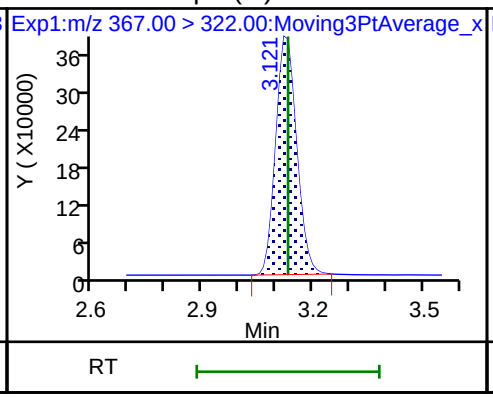
8 Perfluorohexanesulfonic acid (M)



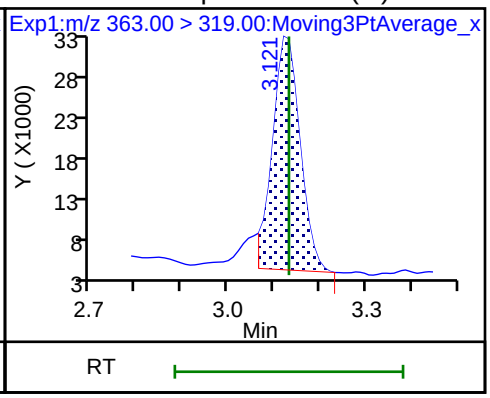
8 Perfluorohexanesulfonic acid (M)



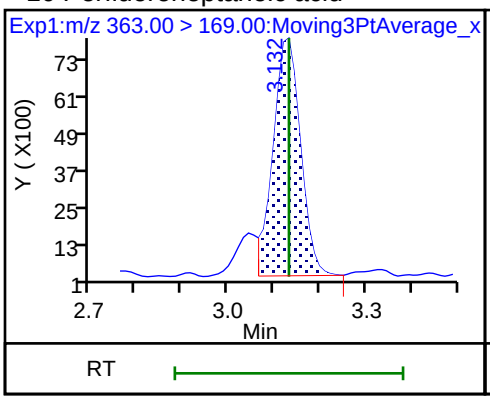
D 9 13C4 PFHpA (M)



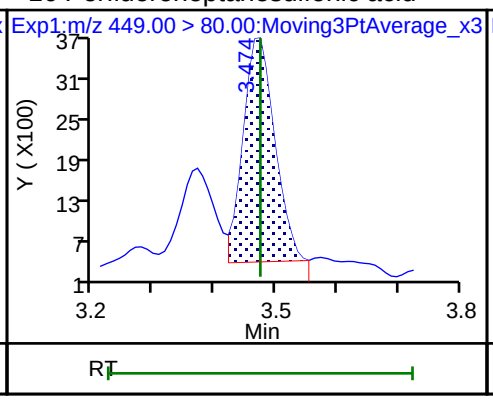
10 Perfluoroheptanoic acid (M)



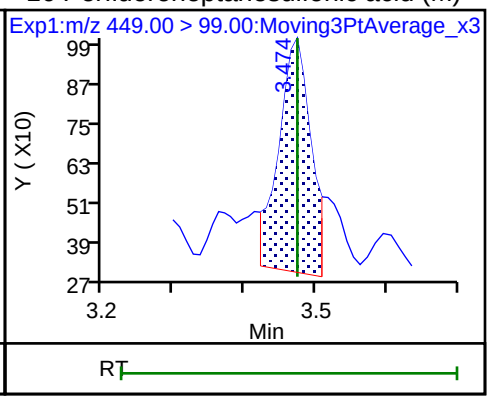
10 Perfluoroheptanoic acid



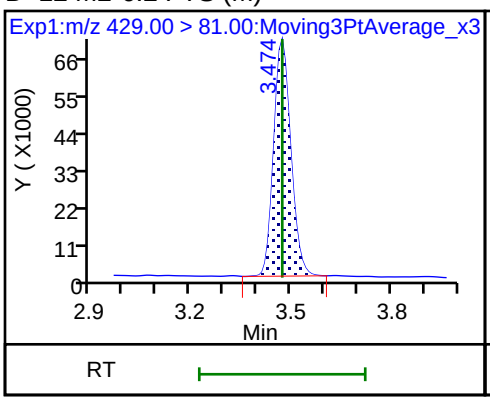
16 Perfluoroheptanesulfonic acid



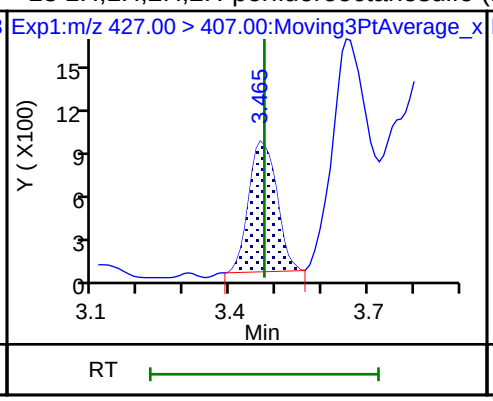
16 Perfluoroheptanesulfonic acid (M)



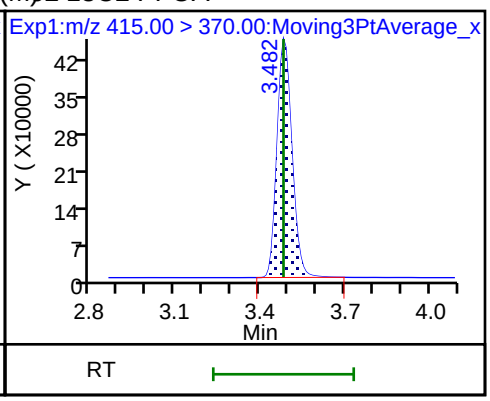
D 12 M2-6:2 FTS (M)



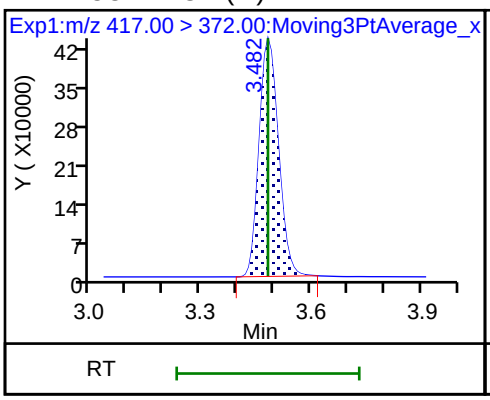
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



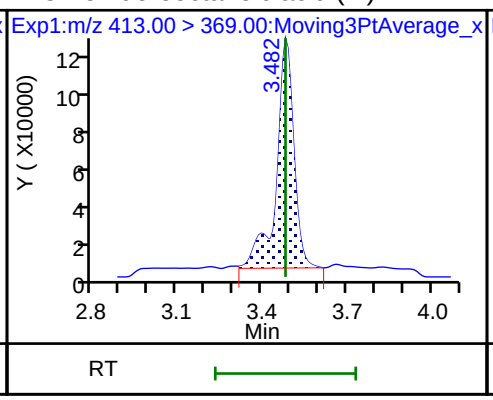
M2 13C2 PFOA



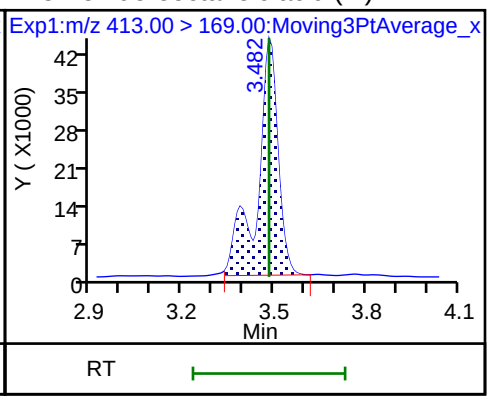
D 14 13C4 PFOA (M)



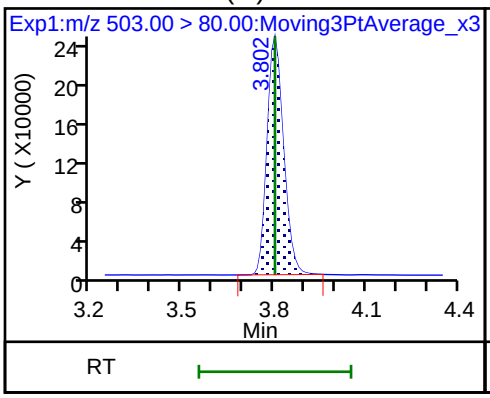
15 Perfluorooctanoic acid (M)



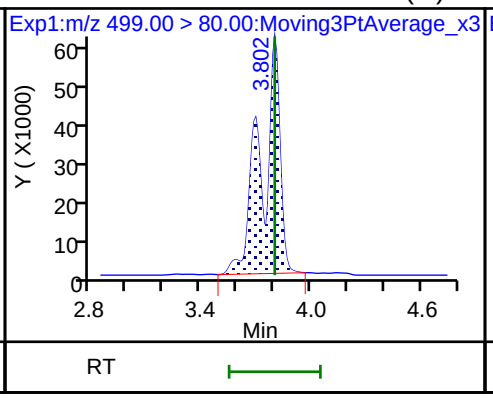
15 Perfluorooctanoic acid (M)



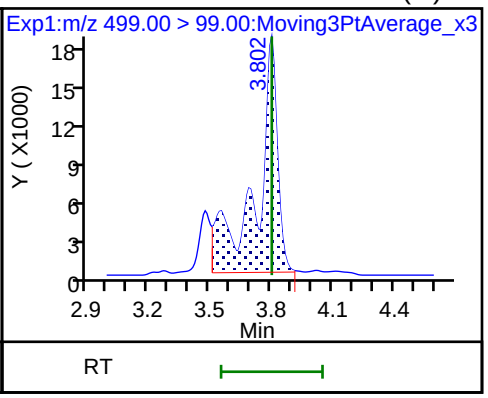
D 18 13C4 PFOS (M)



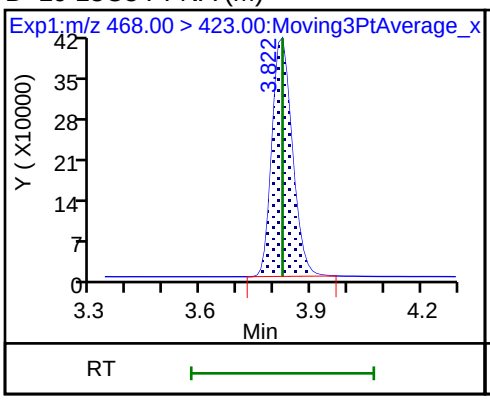
17 Perfluorooctanesulfonic acid (M)



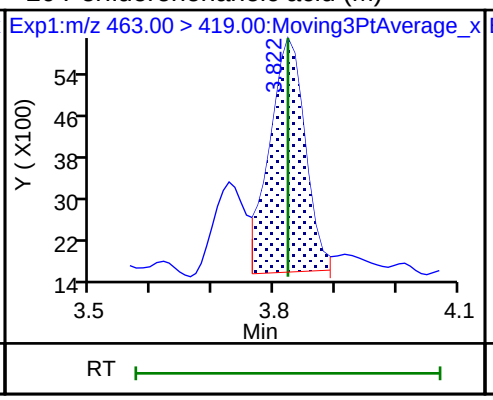
17 Perfluorooctanesulfonic acid (M)



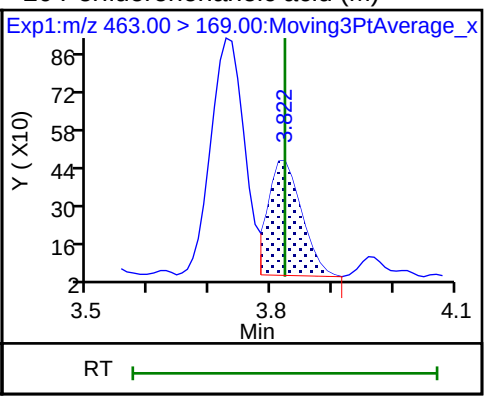
D 19 13C5 PFNA (M)



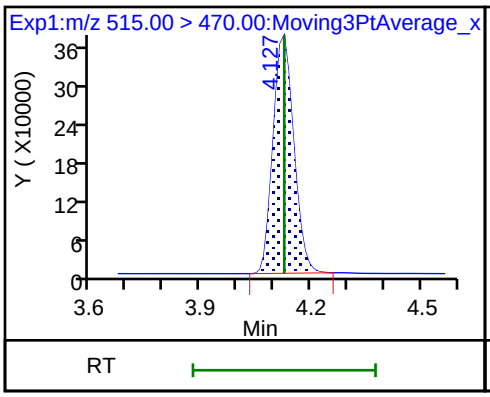
20 Perfluorononanoic acid (M)



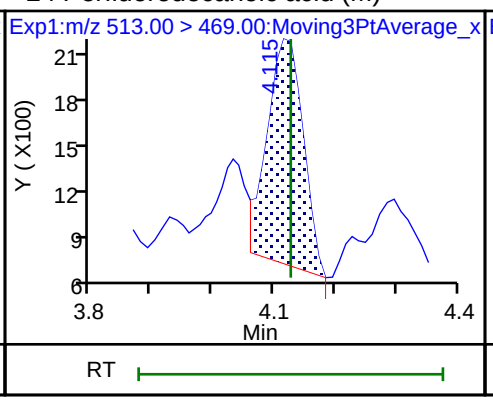
20 Perfluorononanoic acid (M)



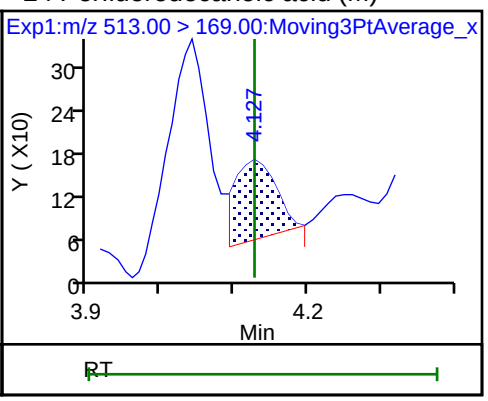
D 23 13C2 PFDA



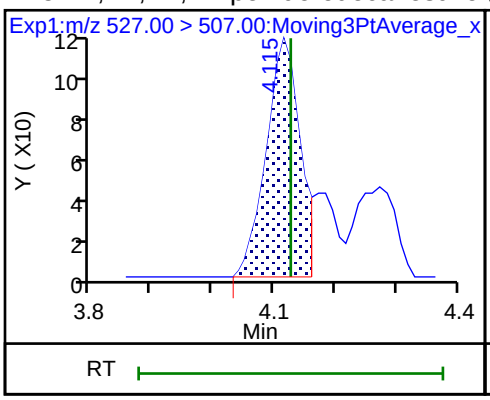
24 Perfluorodecanoic acid (M)



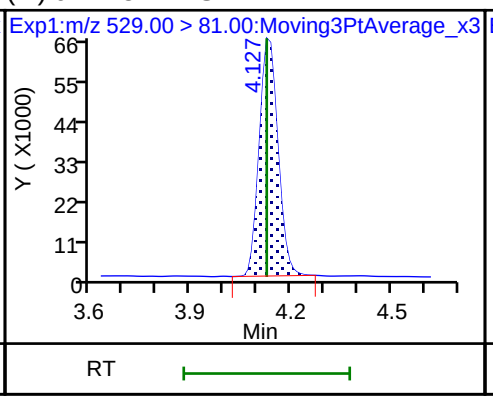
24 Perfluorodecanoic acid (M)



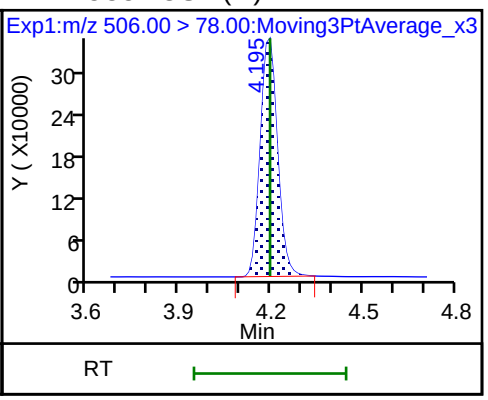
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



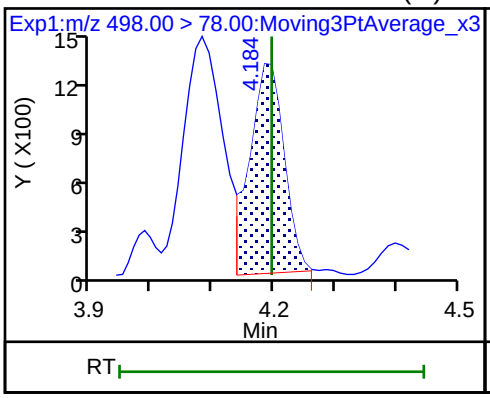
D 26 M2-8:2 FTS



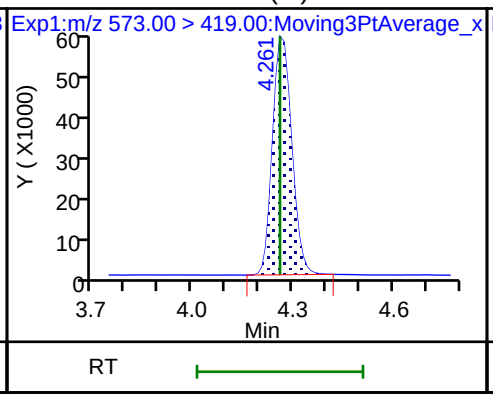
D 21 13C8 FOSA (M)



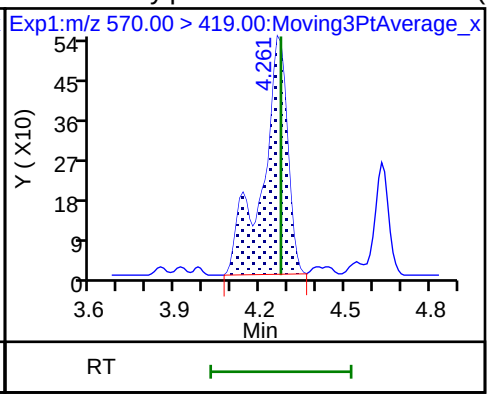
22 Perfluorooctanesulfonamide (M)



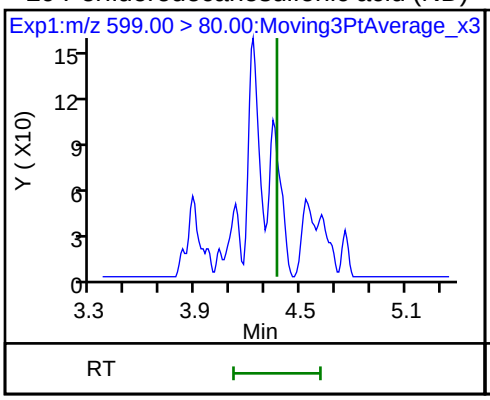
D 27 d3-NMeFOSAA (M)



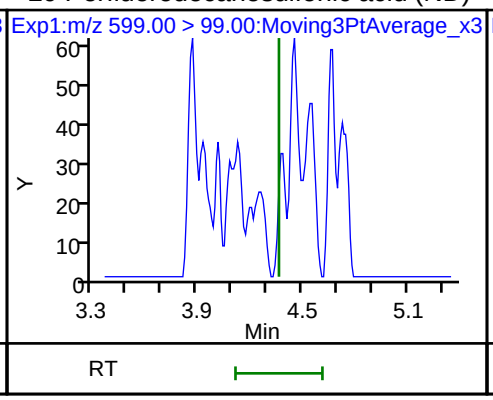
28 N-methylperfluorooctanesulfonami (M)



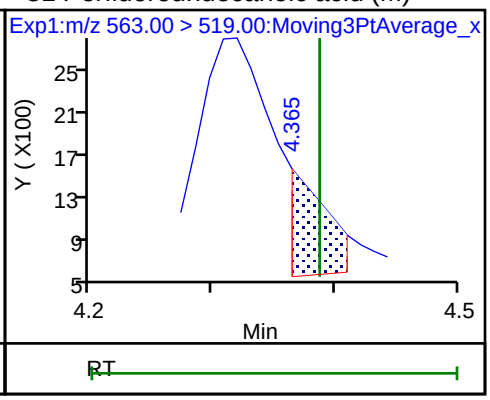
29 Perfluorodecanesulfonic acid (ND)



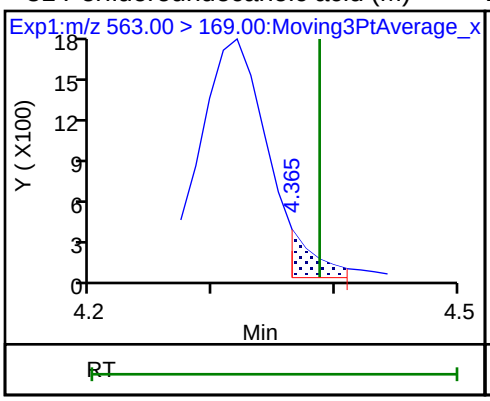
29 Perfluorodecanesulfonic acid (ND)



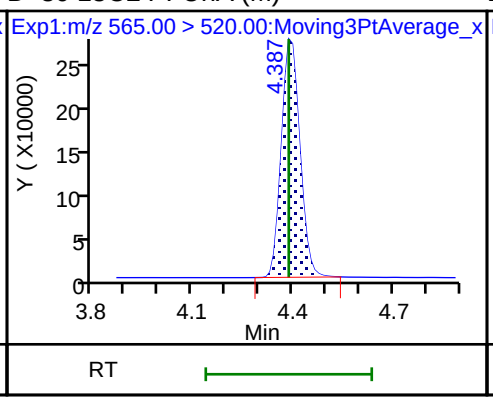
31 Perfluoroundecanoic acid (M)



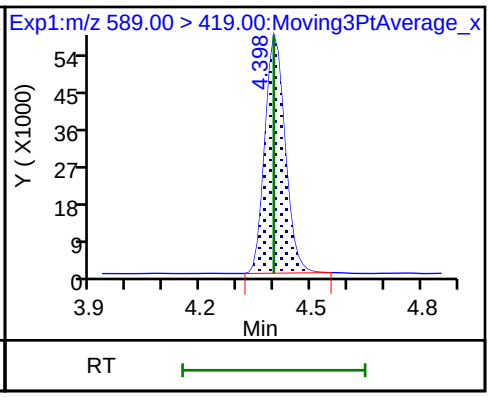
31 Perfluoroundecanoic acid (M)



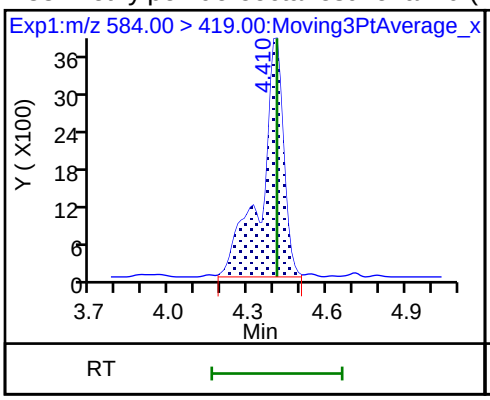
D 30 13C2 PFUnA (M)



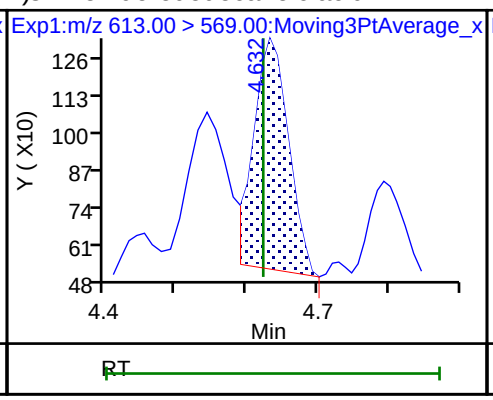
D 32 d5-NEtFOSAA



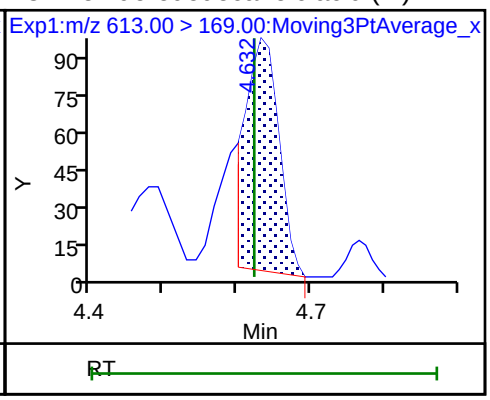
33 N-ethylperfluorooctanesulfonamid (M)



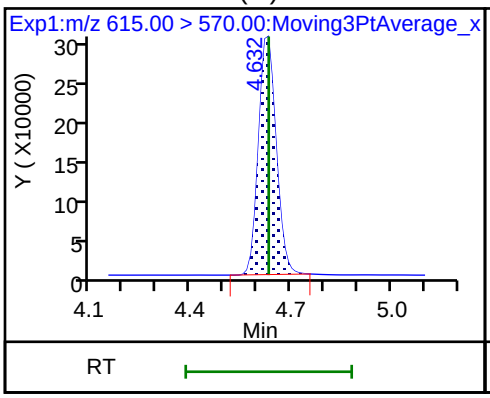
37 Perfluorododecanoic acid



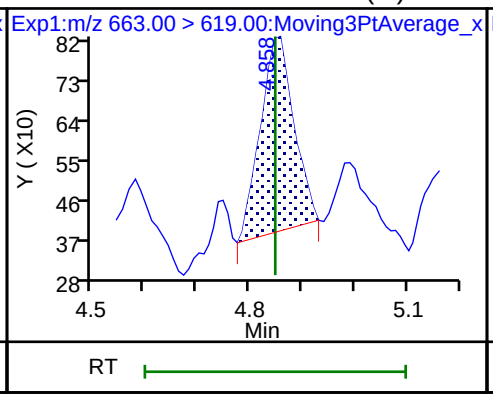
37 Perfluorododecanoic acid (M)



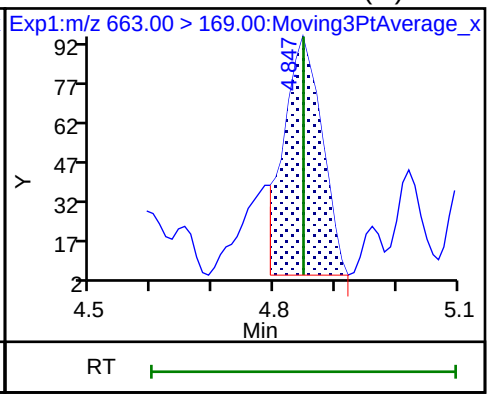
D 36 13C2 PFDoA (M)



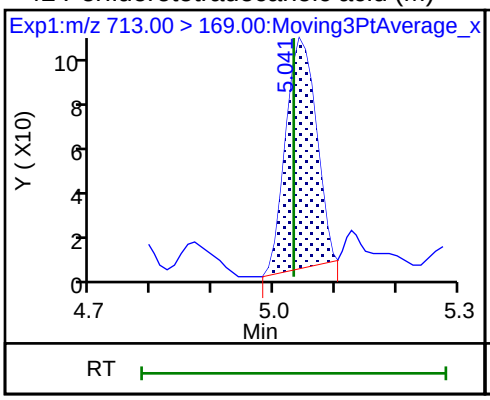
41 Perfluorotridecanoic acid (M)



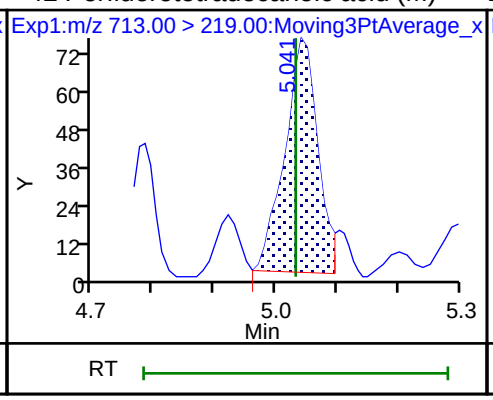
41 Perfluorotridecanoic acid (M)



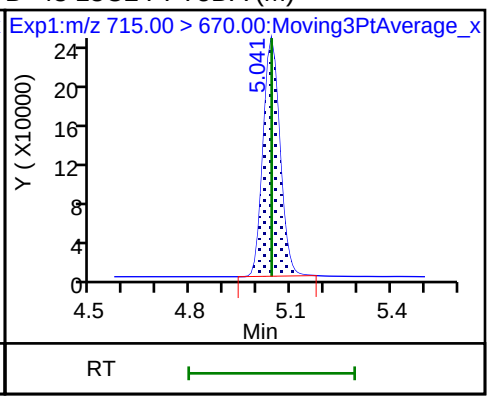
42 Perfluorotetradecanoic acid (M)



42 Perfluorotetradecanoic acid (M)



D 43 13C2 PFTeDA (M)



Manual Integration/User Assign Peak Report

Eurofins Burlington

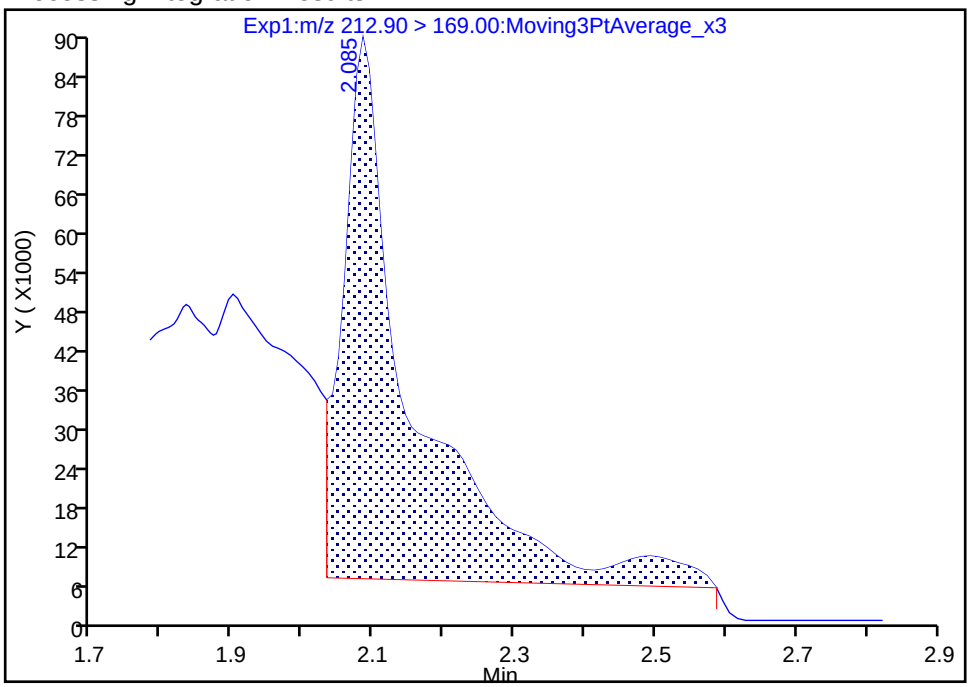
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

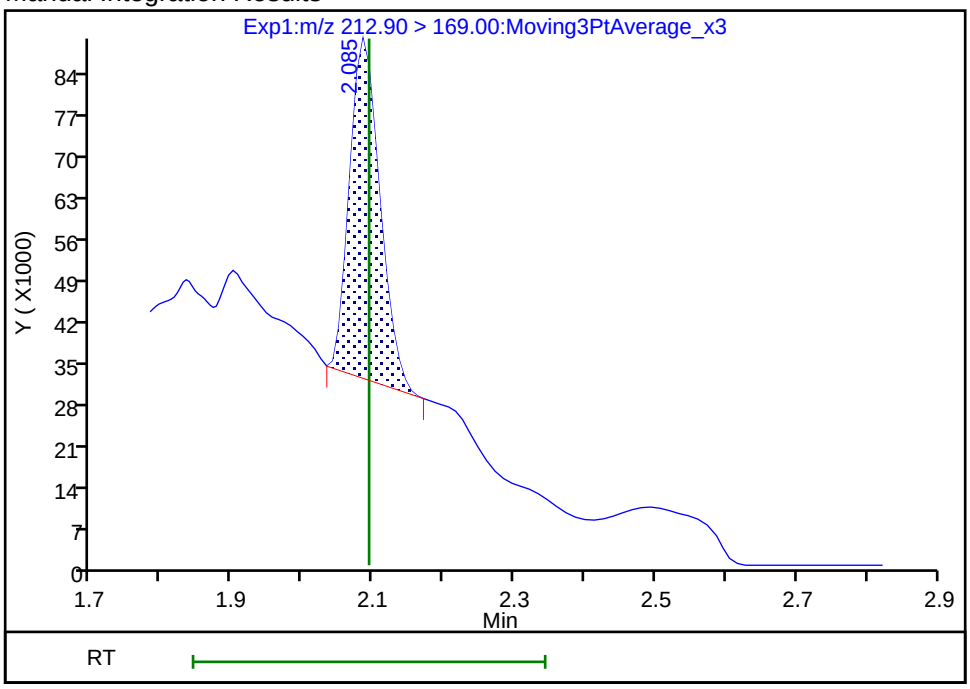
Processing Integration Results

RT: 2.08
Area: 565437
Amount: 0.501845
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 172129
Amount: 0.153324
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:43:27

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

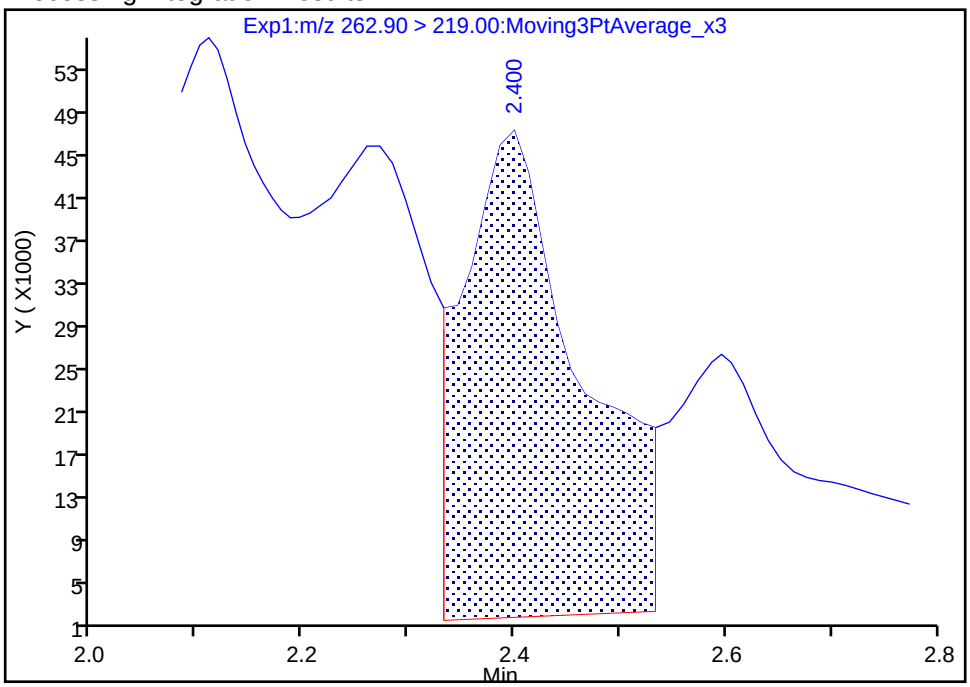
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d		
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2
Client ID:	MW-2A		
Operator ID:	lc812tech	ALS Bottle#:	16 Worklist Smp#: 19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

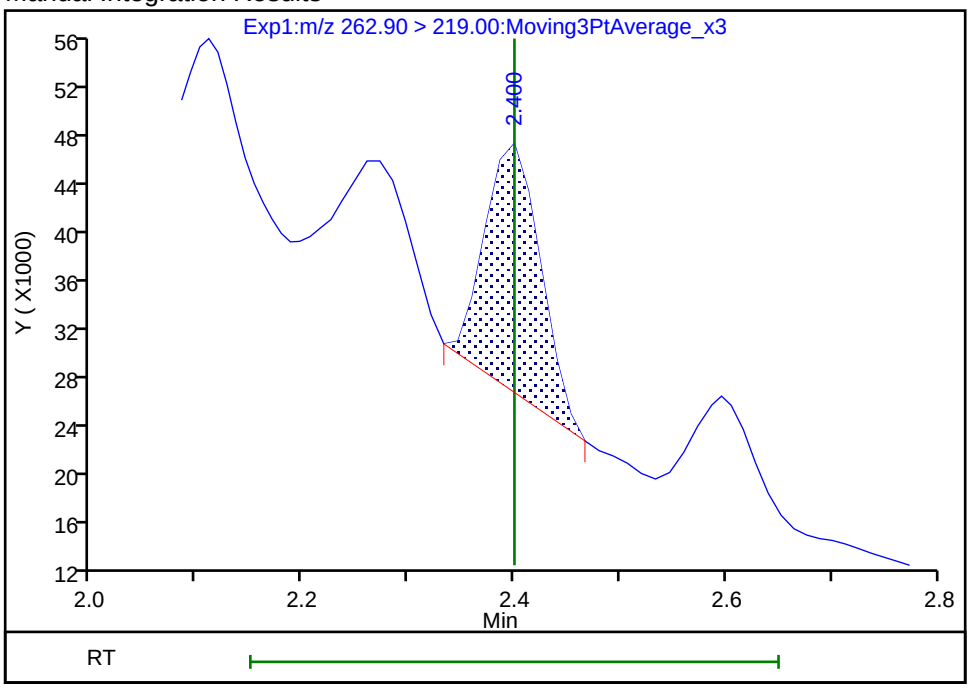
Processing Integration Results

RT: 2.40
Area: 343347
Amount: 0.293850
Amount Units: ng/ml



Manual Integration Results

RT: 2.40
Area: 73557
Amount: 0.062953
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:43:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

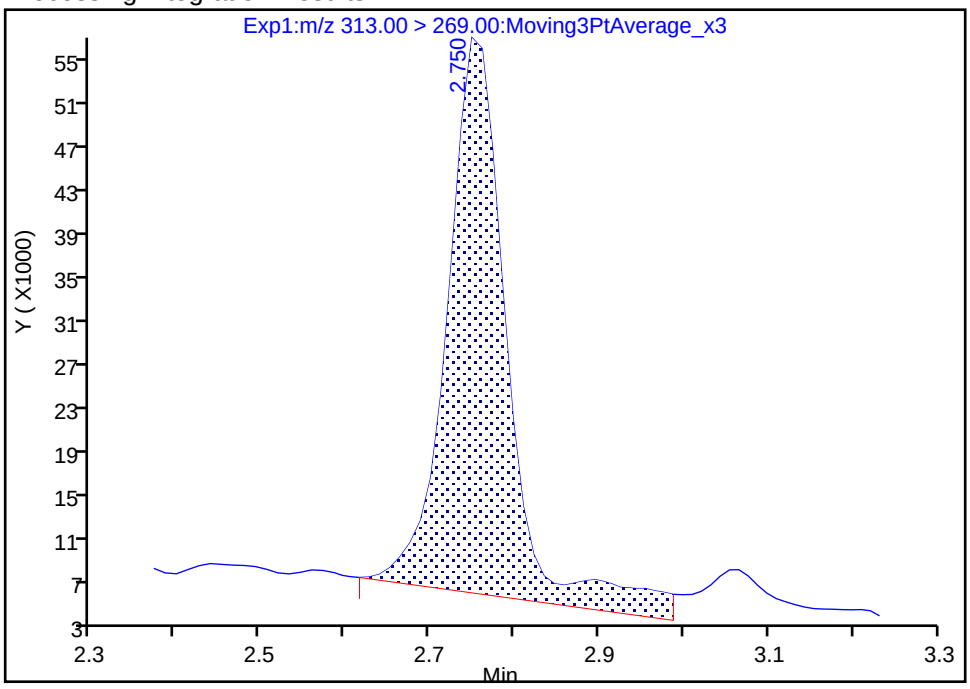
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

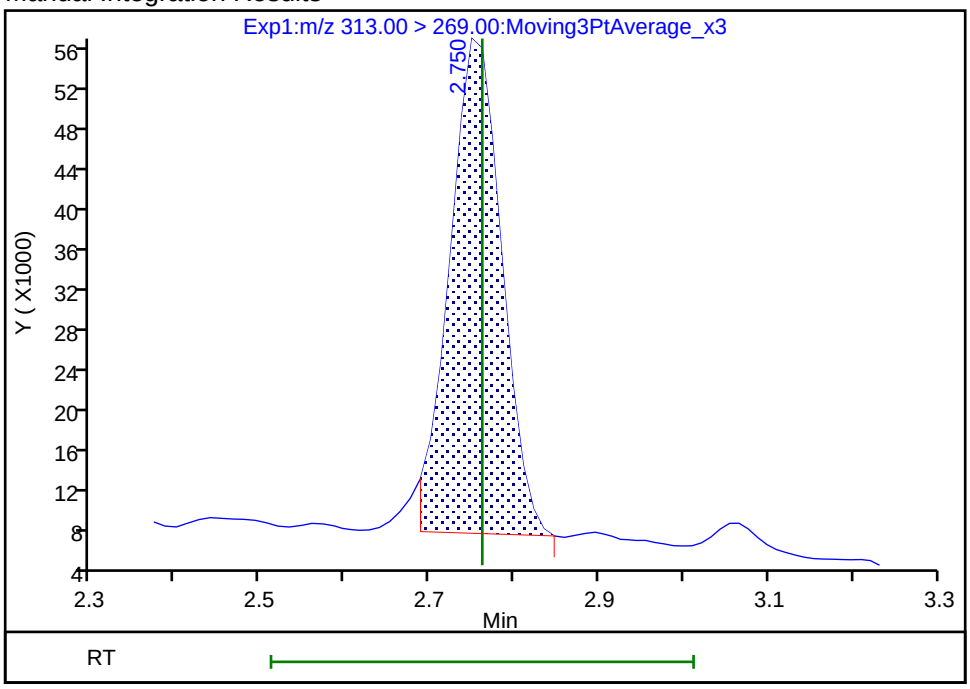
Processing Integration Results

RT: 2.75
Area: 250309
Amount: 0.223715
Amount Units: ng/ml



Manual Integration Results

RT: 2.75
Area: 210273
Amount: 0.189403
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:49:19

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

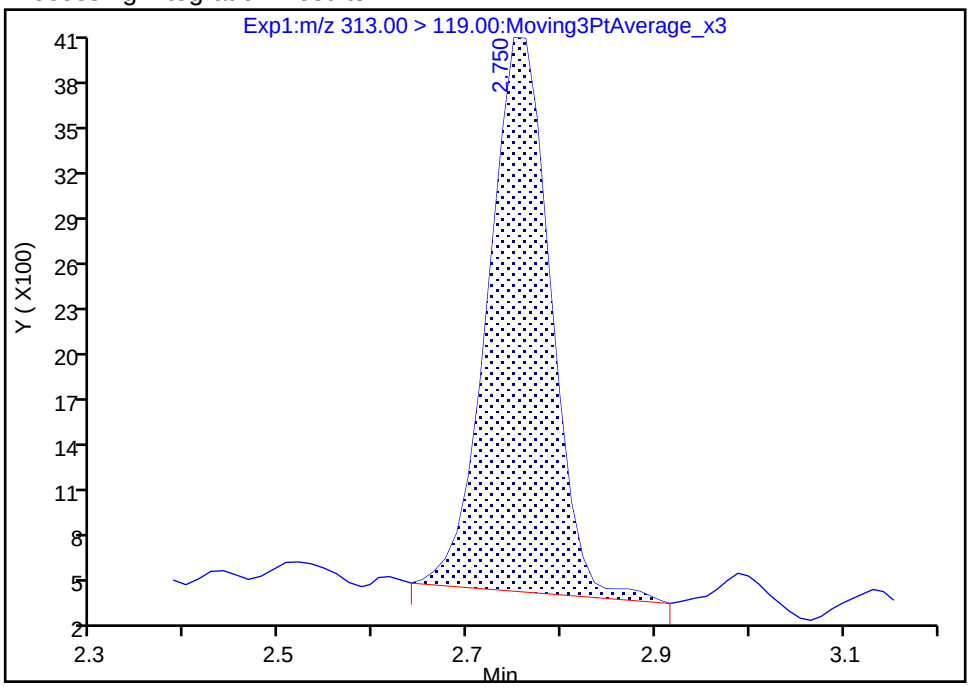
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

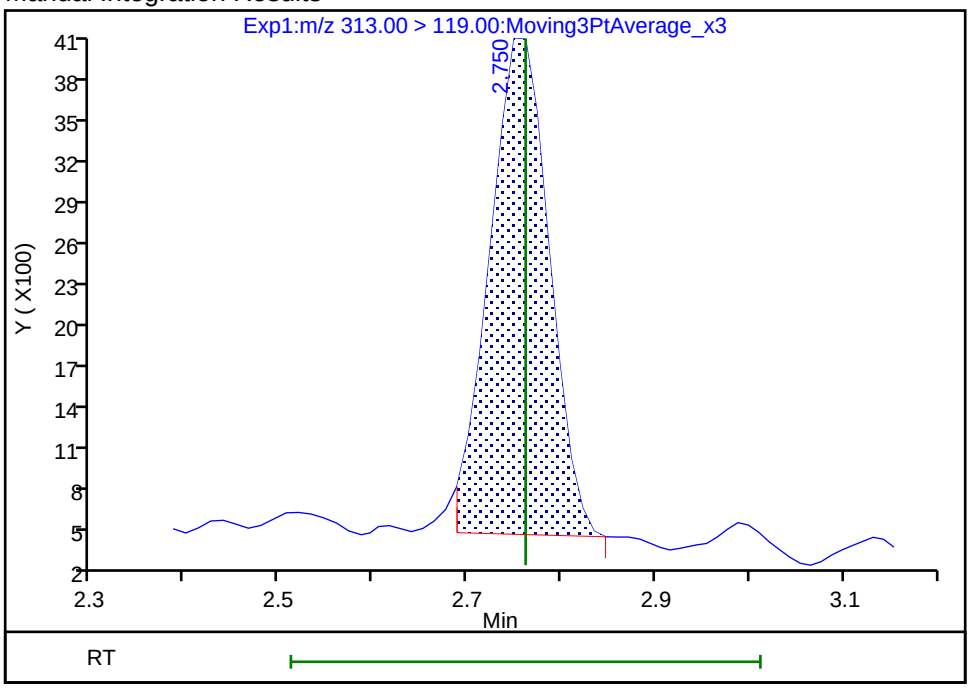
Processing Integration Results

RT: 2.75
Area: 17031
Amount: 0.223715
Amount Units: ng/ml



Manual Integration Results

RT: 2.75
Area: 16101
Amount: 0.189403
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:49:23

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

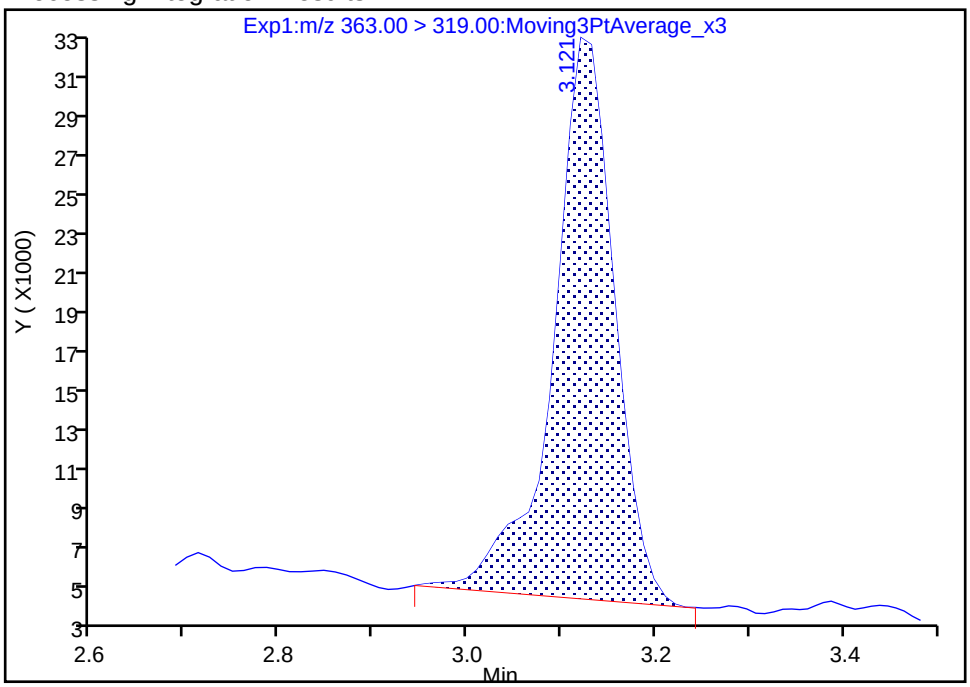
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

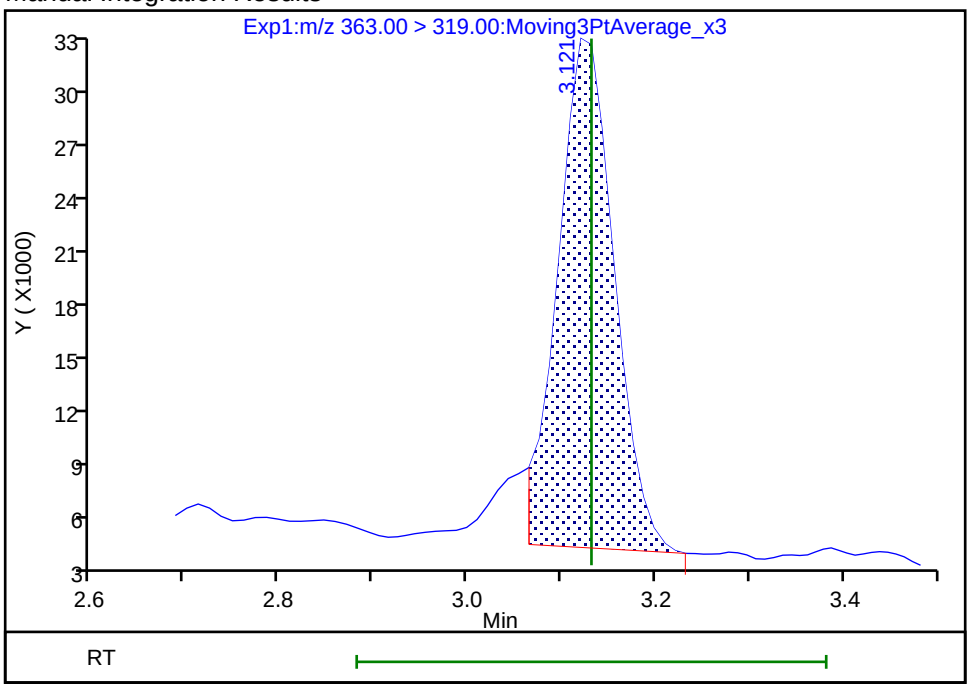
Processing Integration Results

RT: 3.12
Area: 127755
Amount: 0.102757
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 117474
Amount: 0.095230
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:44:17

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

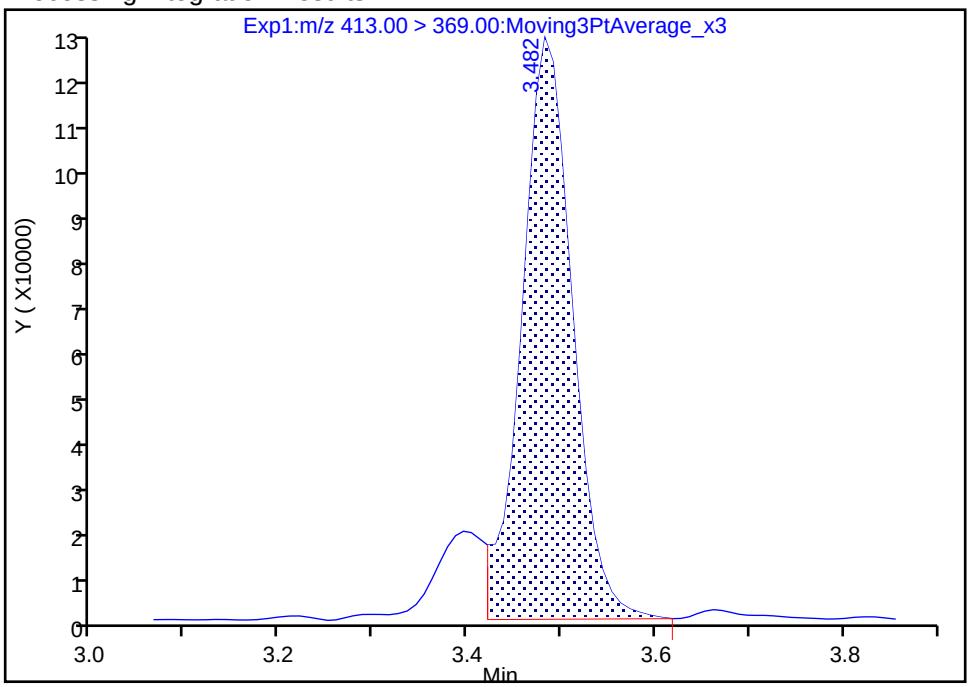
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

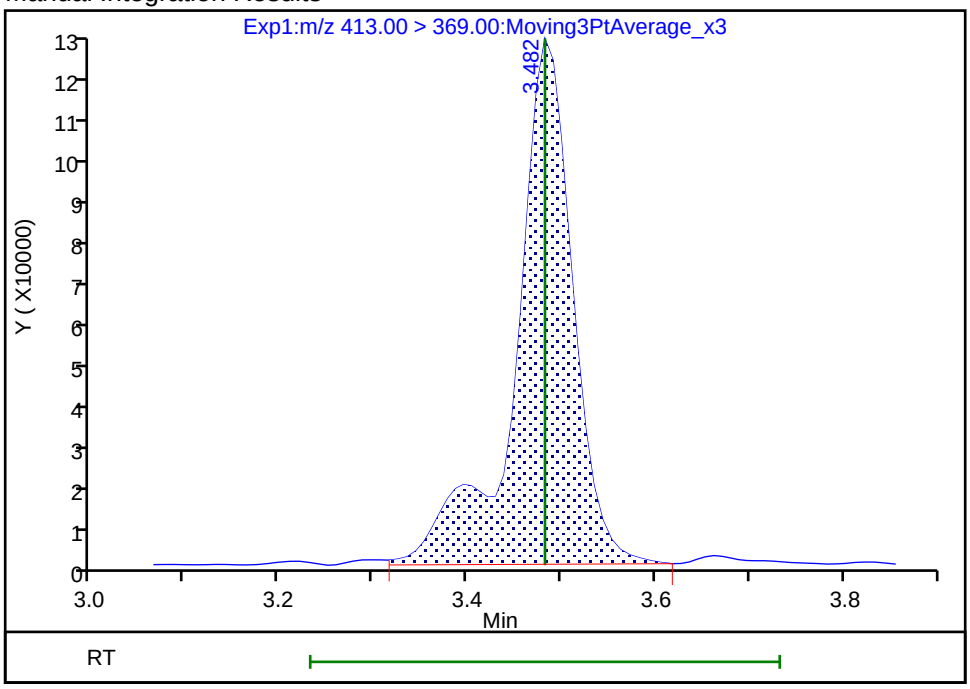
Processing Integration Results

RT: 3.48
Area: 439944
Amount: 0.305524
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 502922
Amount: 0.353092
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:45:06

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

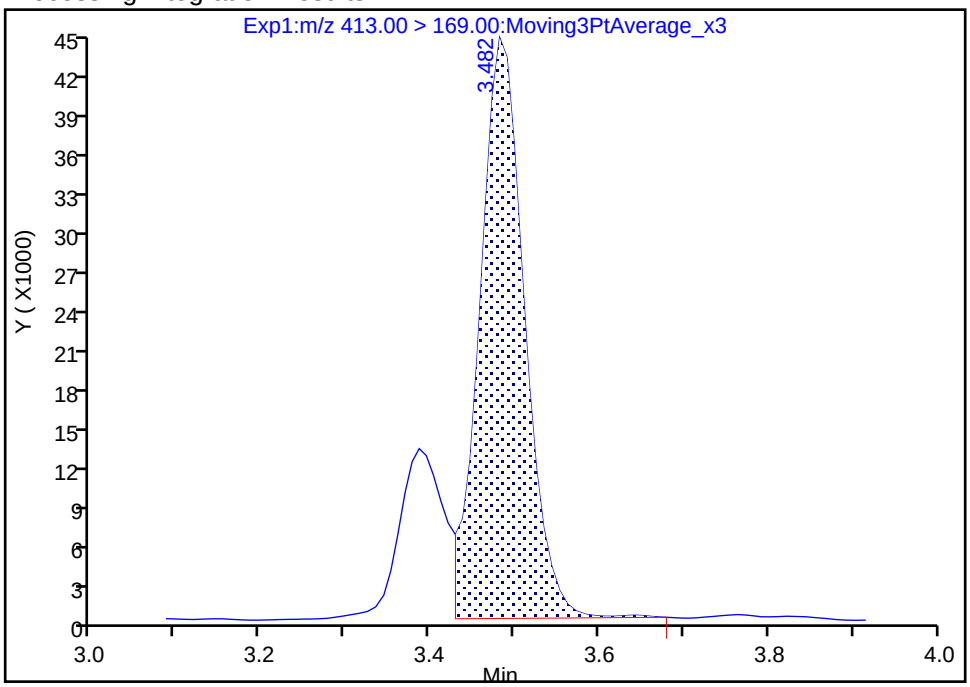
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

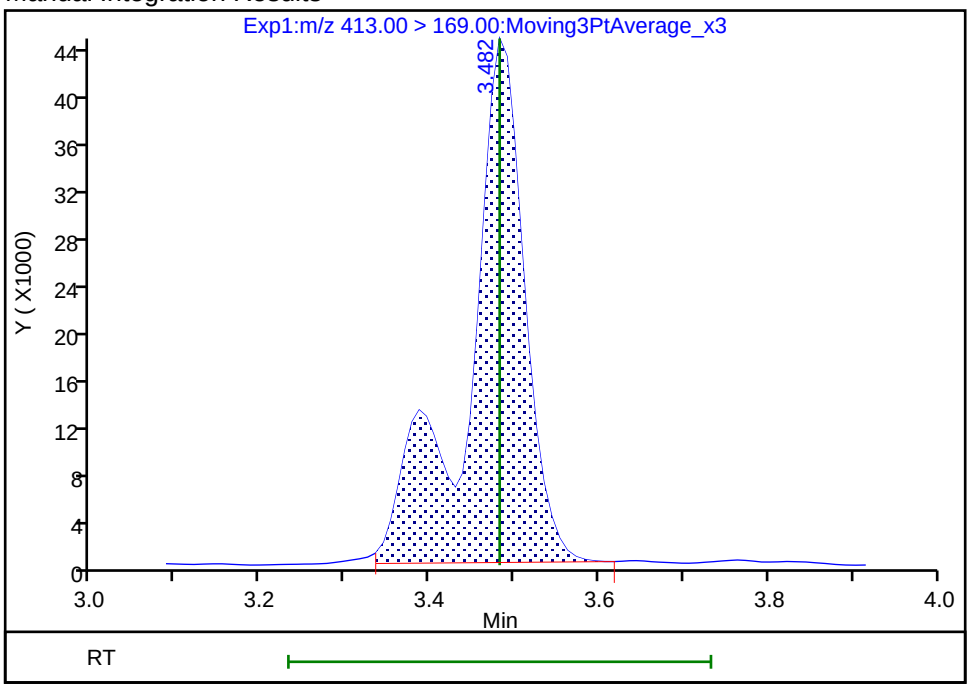
Processing Integration Results

RT: 3.48
Area: 160431
Amount: 0.305524
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 204011
Amount: 0.353092
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:49:56

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

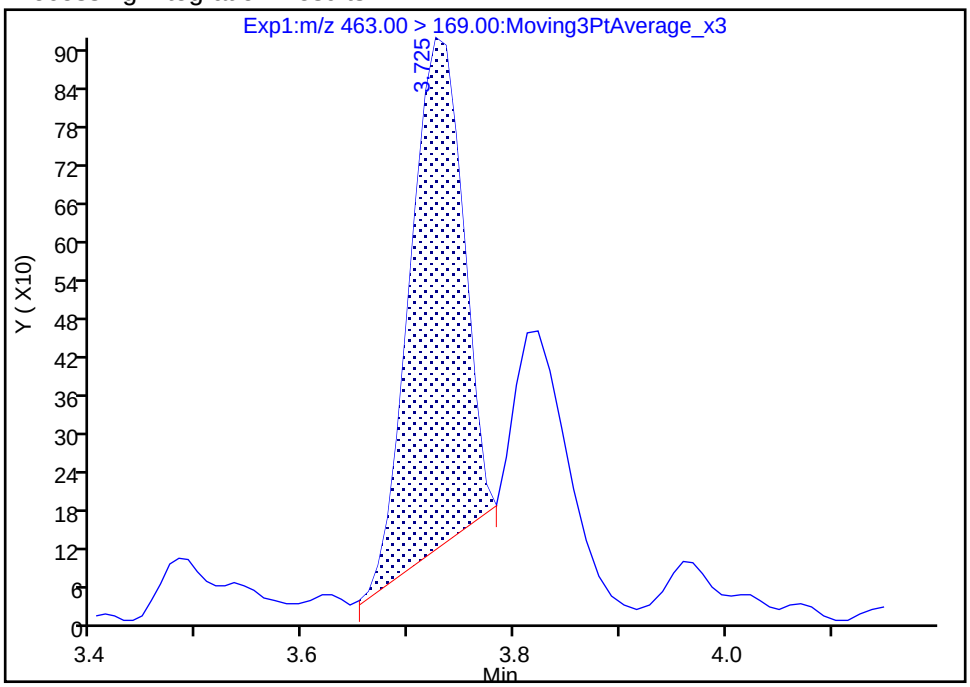
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

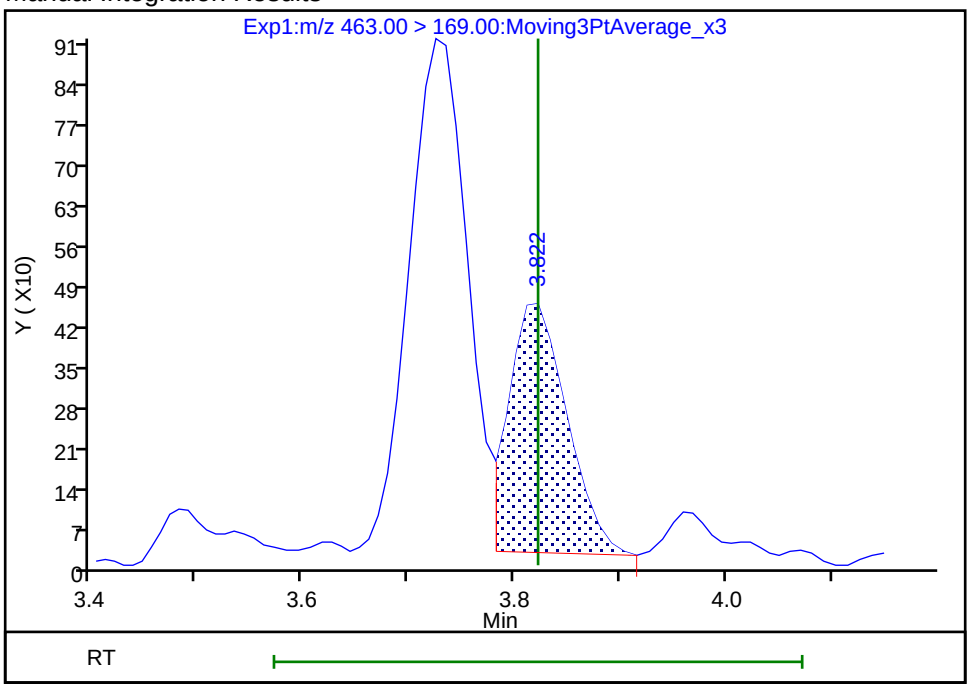
Processing Integration Results

RT: 3.73
Area: 2773
Amount: 0.005192
Amount Units: ng/ml



Manual Integration Results

RT: 3.82
Area: 1614
Amount: 0.014936
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:46:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

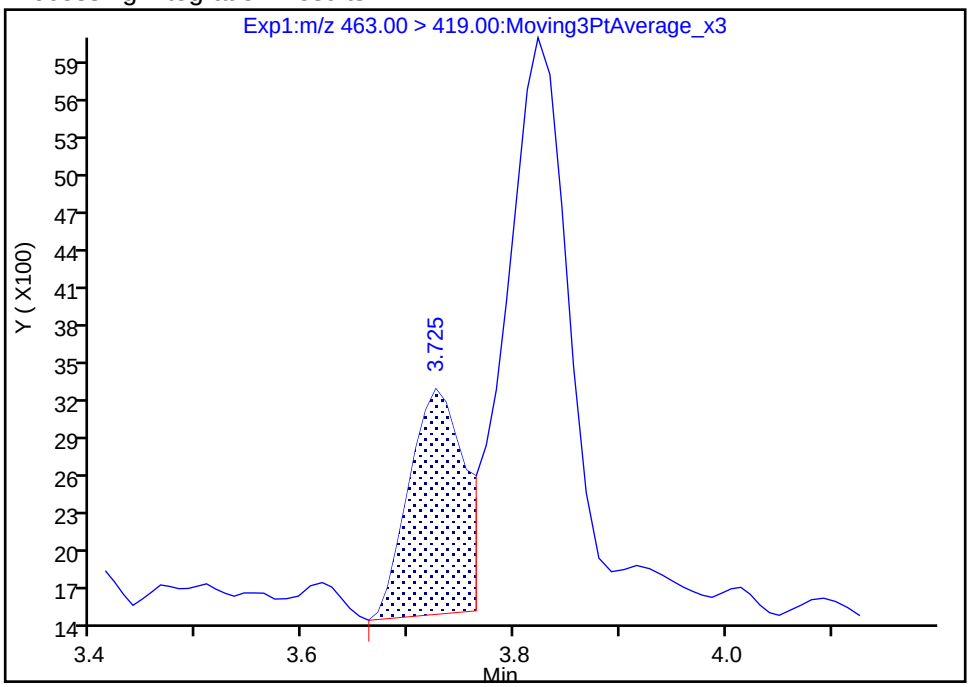
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

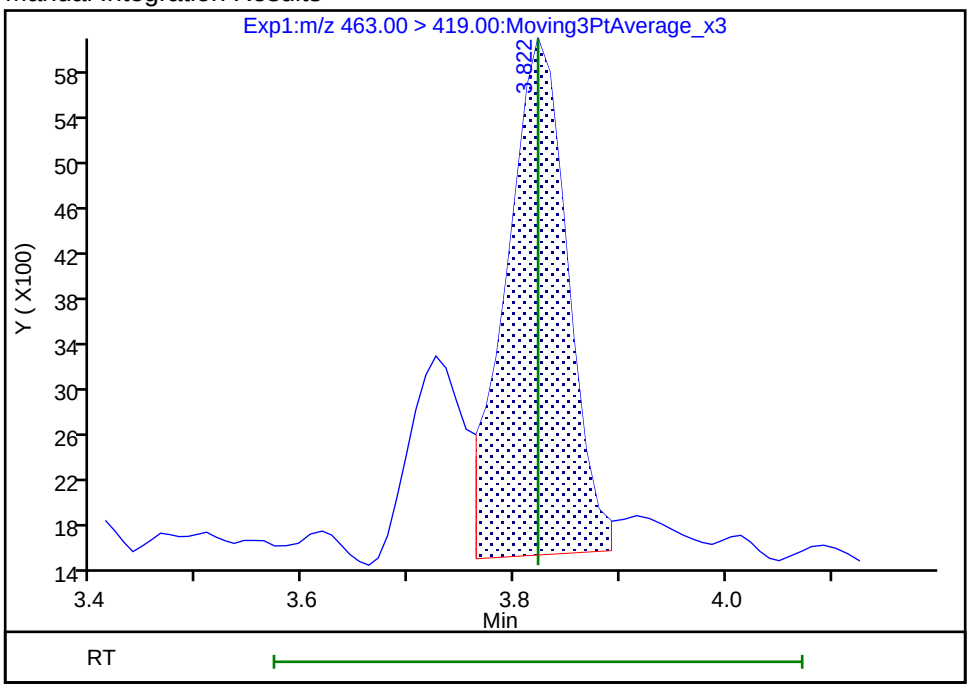
Processing Integration Results

RT: 3.73
Area: 6422
Amount: 0.005192
Amount Units: ng/ml



Manual Integration Results

RT: 3.82
Area: 18343
Amount: 0.014936
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:46:04

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

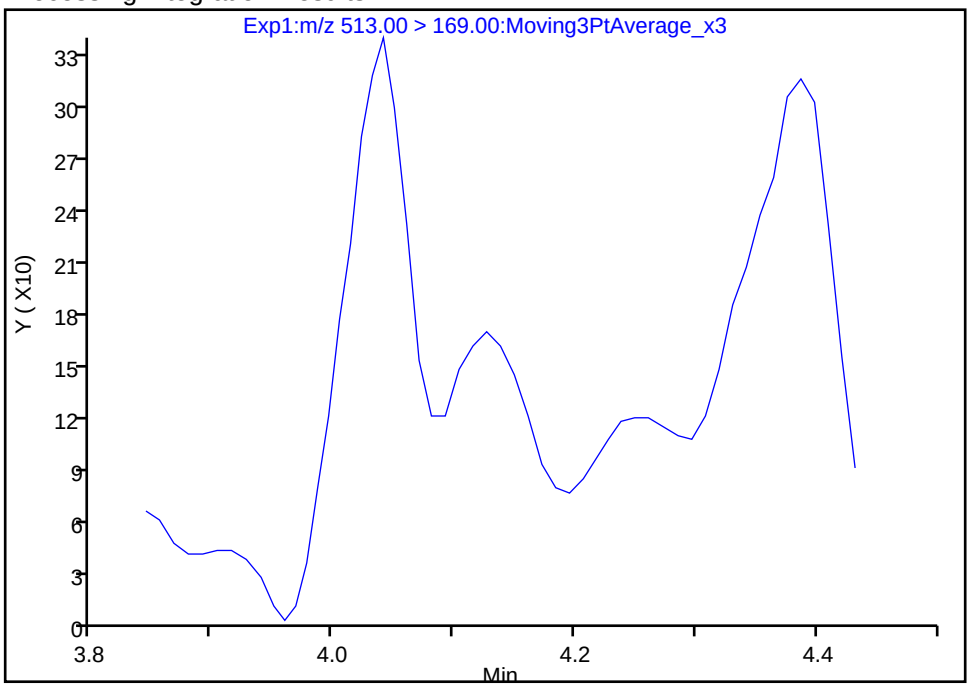
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

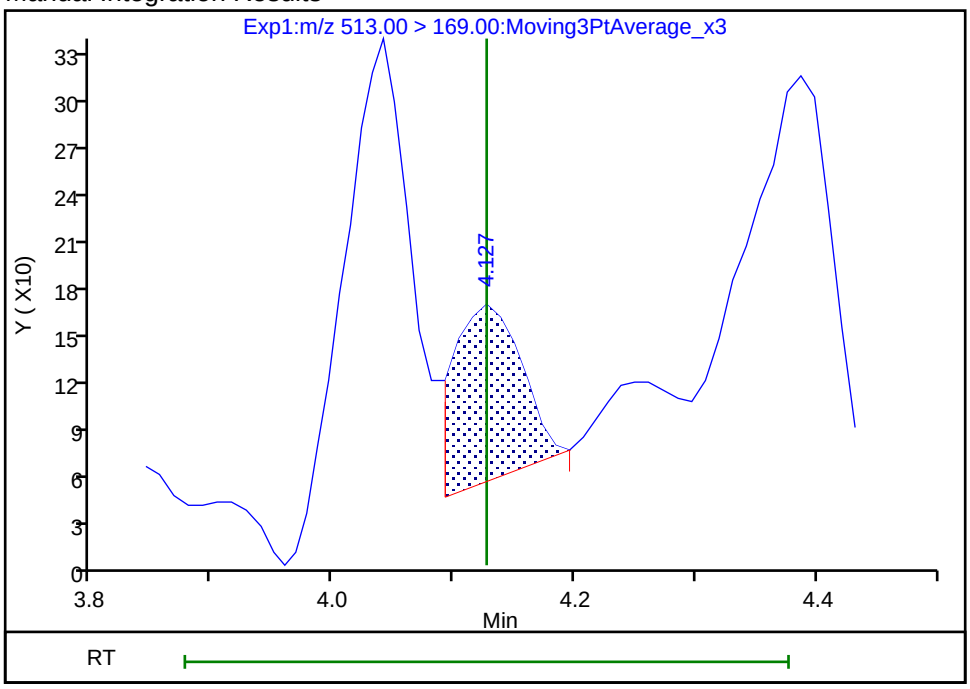
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.13
Area: 413
Amount: 0.004731
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:46:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

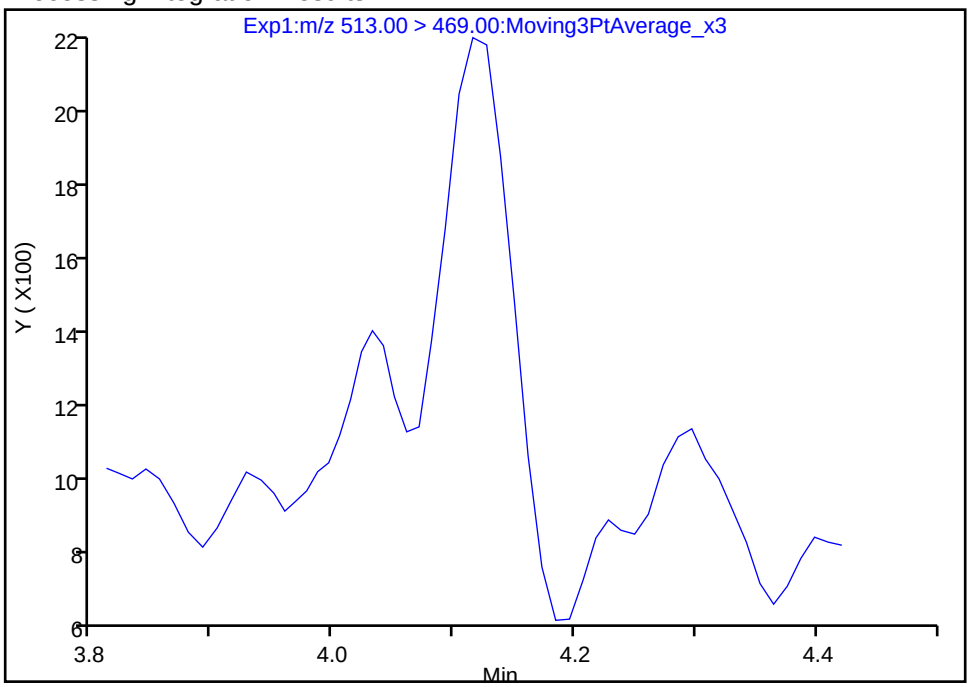
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

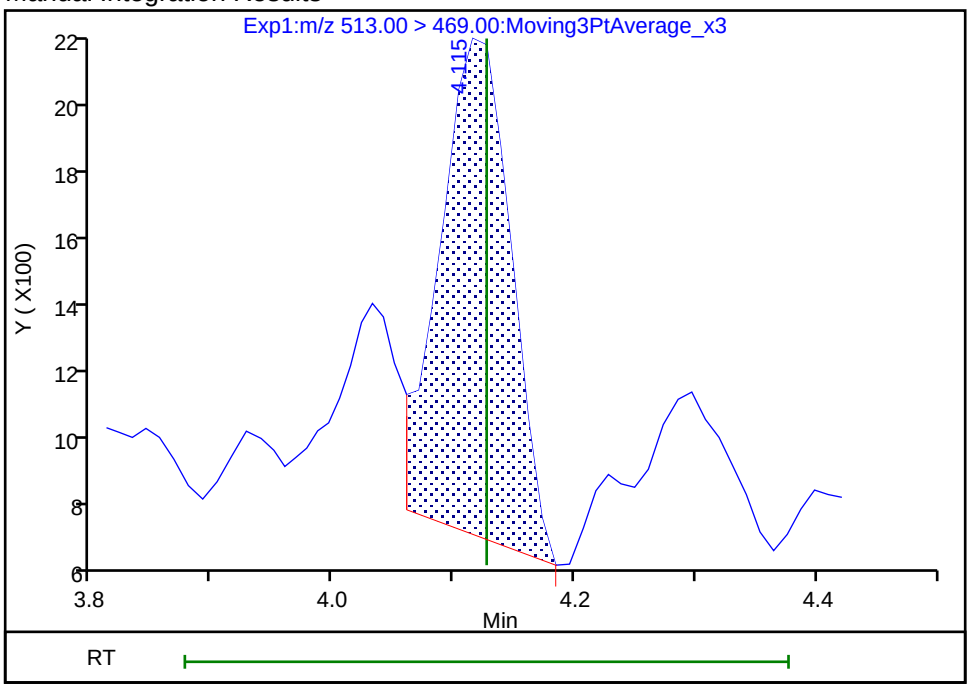
Processing Integration Results

Not Detected
Expected RT: 4.13



Manual Integration Results

RT: 4.12
Area: 5856
Amount: 0.004731
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:50:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

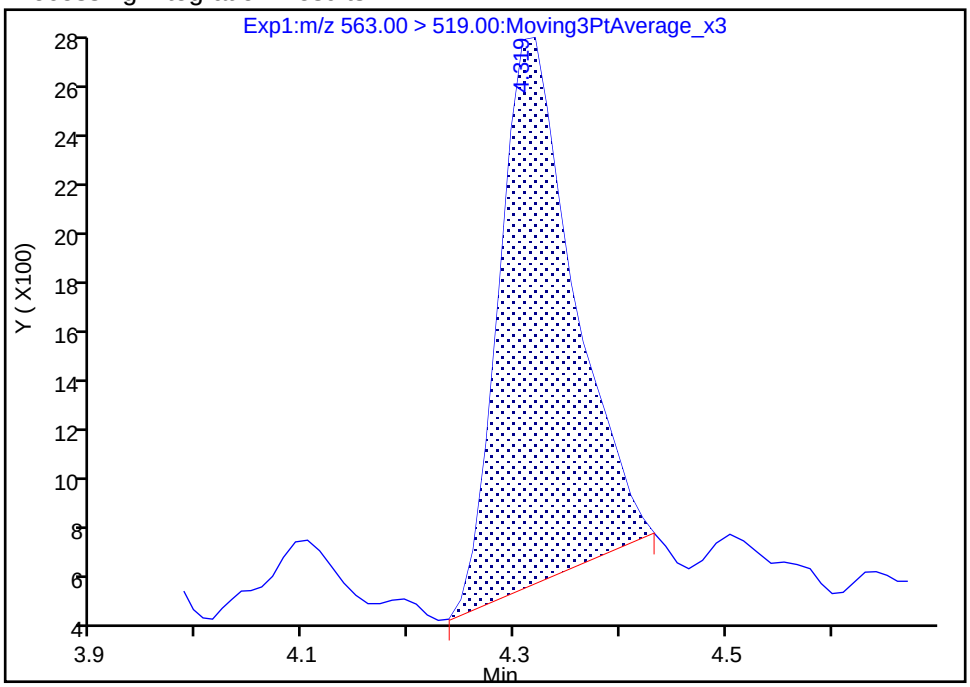
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

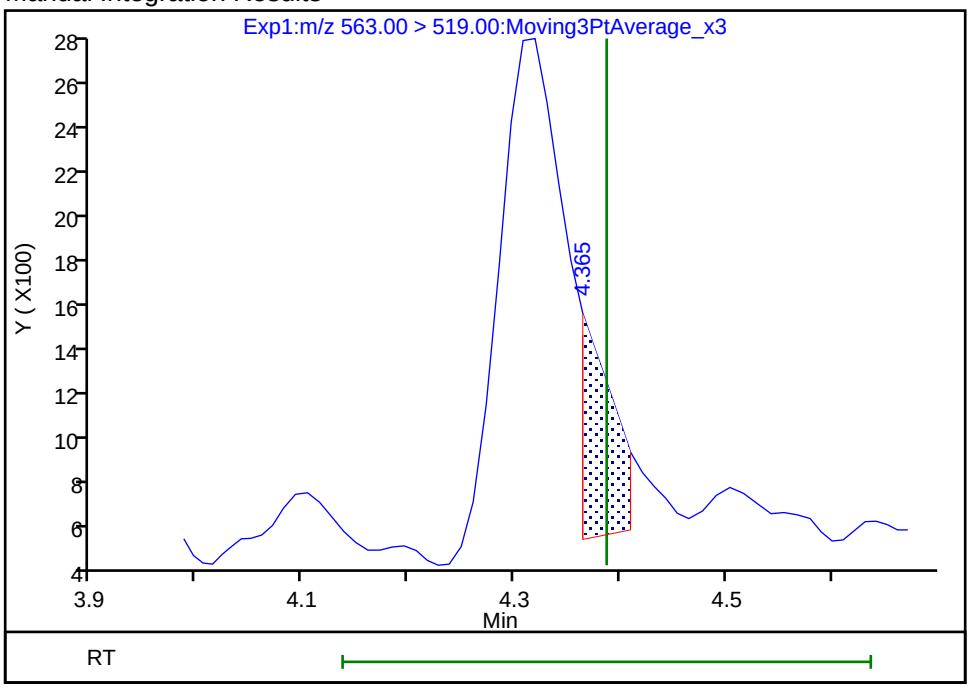
Processing Integration Results

RT: 4.32
Area: 10928
Amount: 0.012362
Amount Units: ng/ml



Manual Integration Results

RT: 4.36
Area: 1857
Amount: 0.002108
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:51:25

Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Burlington

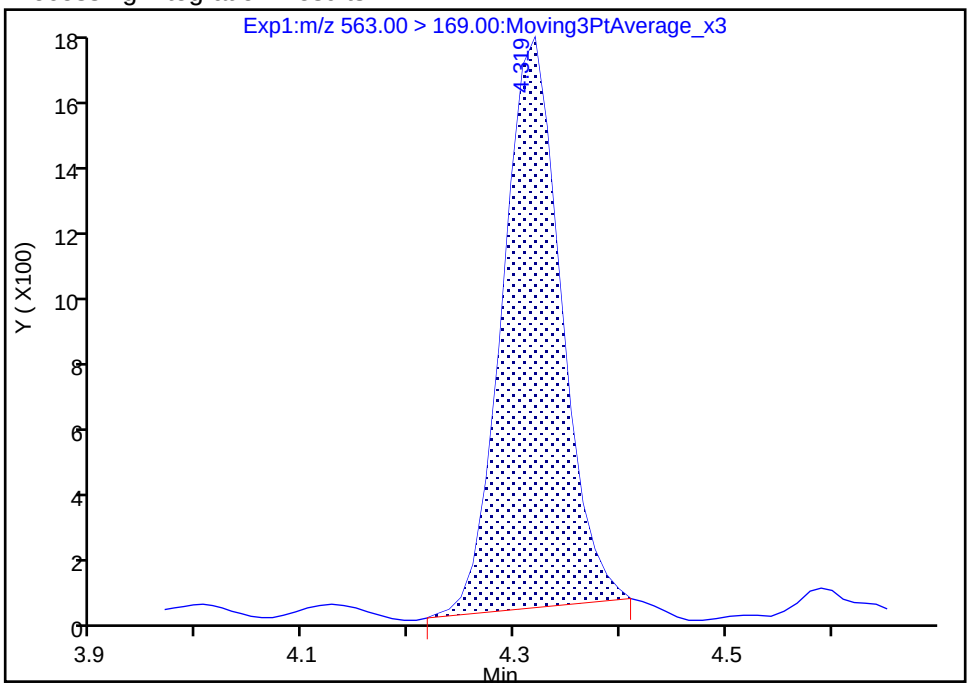
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

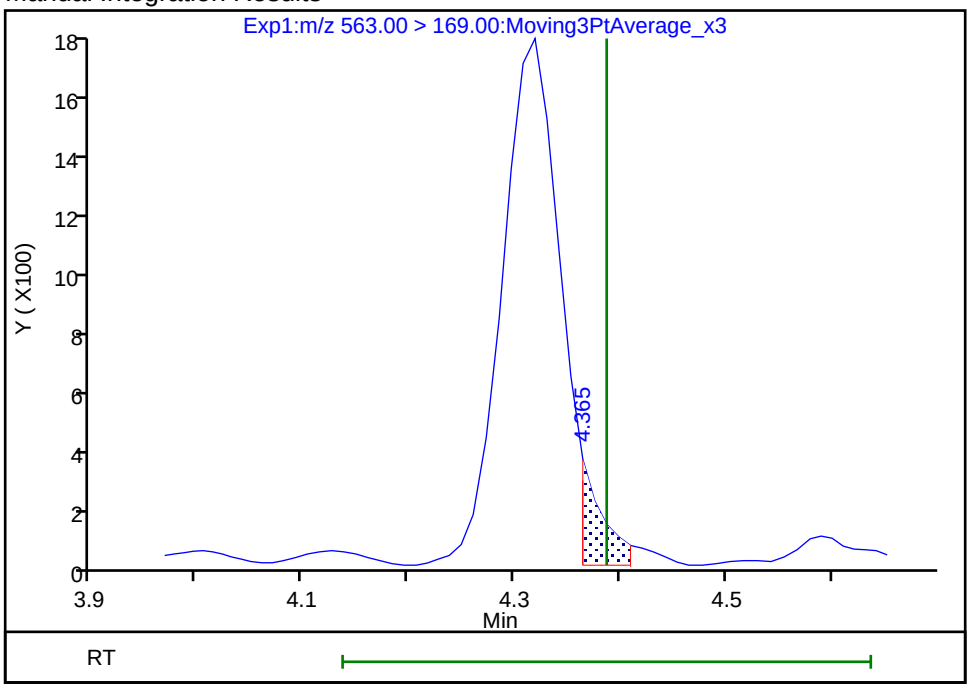
Processing Integration Results

RT: 4.32
Area: 6546
Amount: 0.012362
Amount Units: ng/ml



Manual Integration Results

RT: 4.36
Area: 439
Amount: 0.002108
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:51:31

Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Burlington

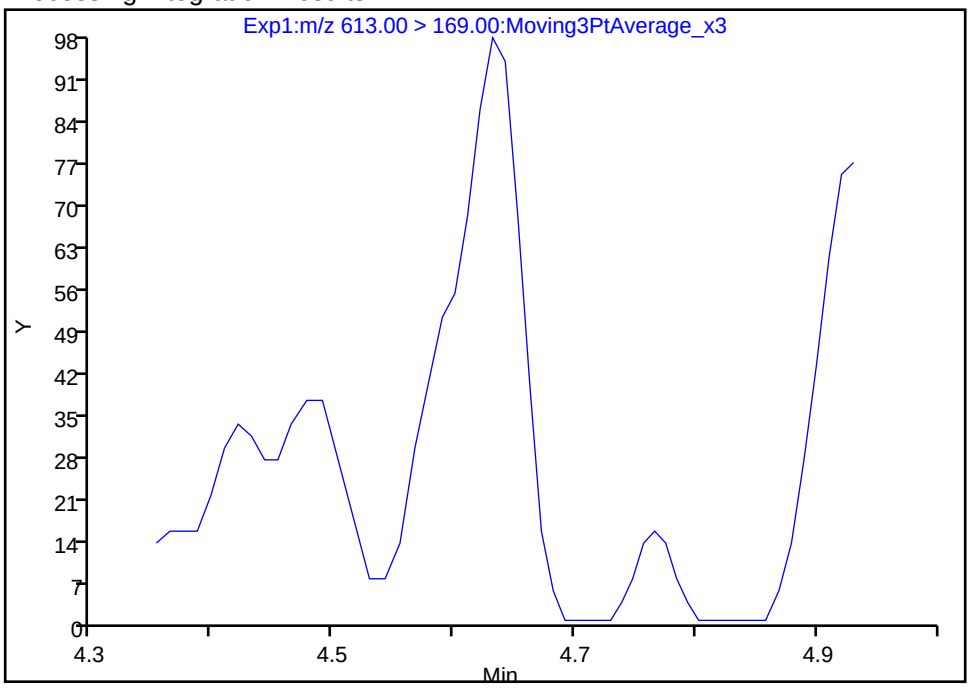
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

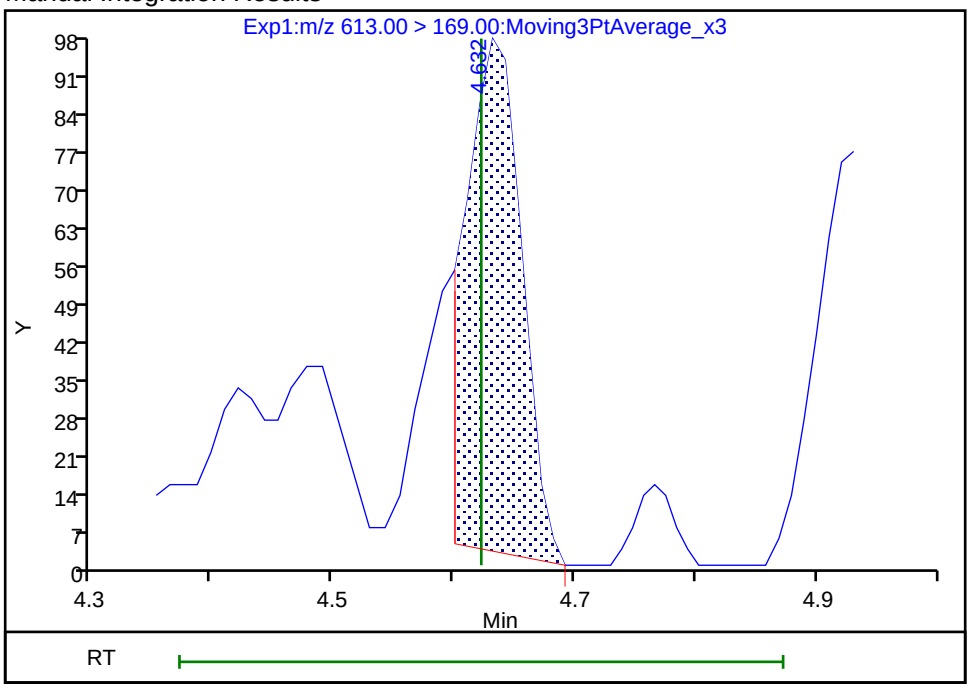
Not Detected
Expected RT: 4.62

Processing Integration Results



Manual Integration Results

RT: 4.63
Area: 298
Amount: 0.002996
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:47:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

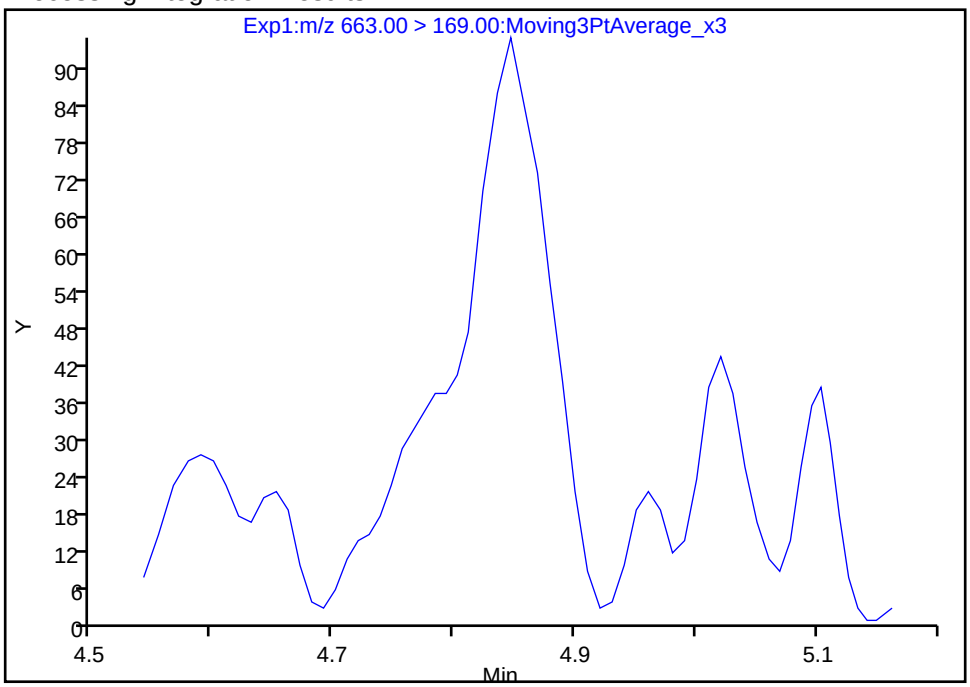
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

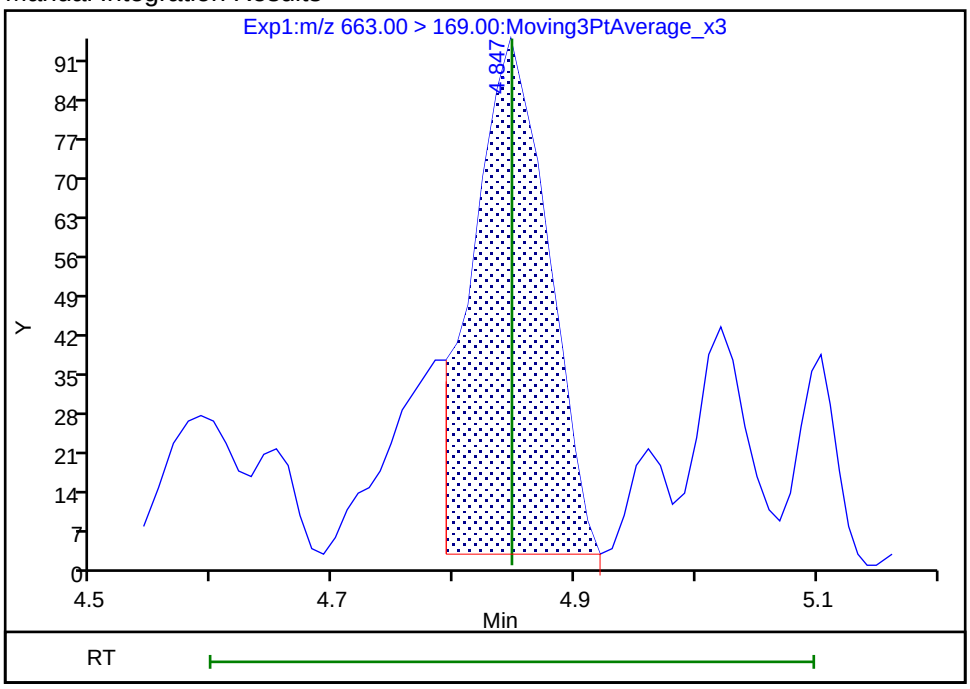
Not Detected
Expected RT: 4.85

Processing Integration Results



Manual Integration Results

RT: 4.85
Area: 399
Amount: 0.002502
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:47:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

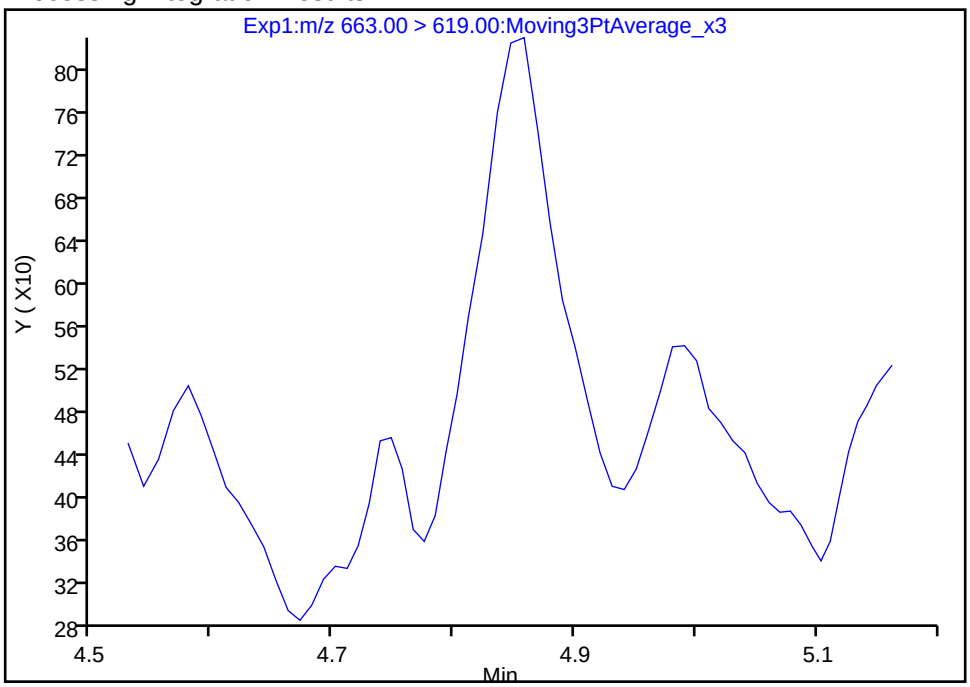
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

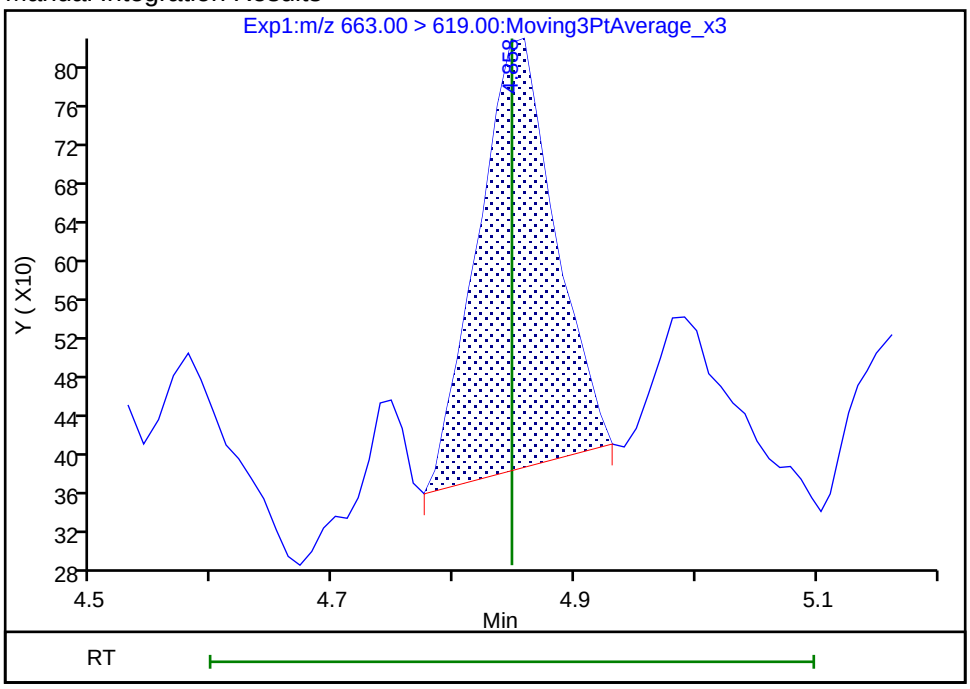
Not Detected
Expected RT: 4.85

Processing Integration Results



Manual Integration Results

RT: 4.86
Area: 1950
Amount: 0.002502
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:47:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

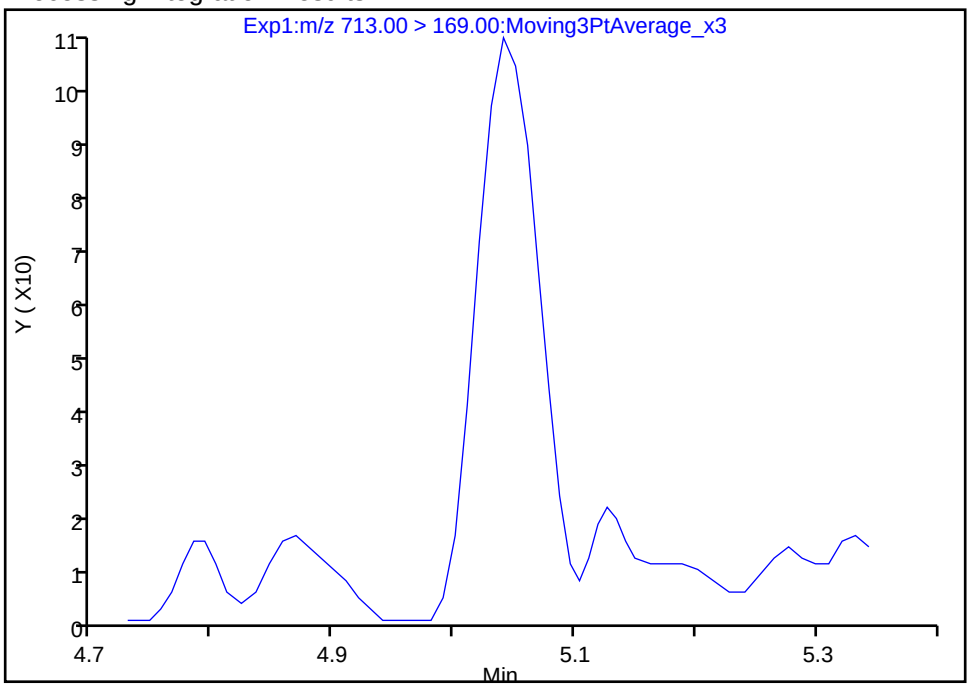
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

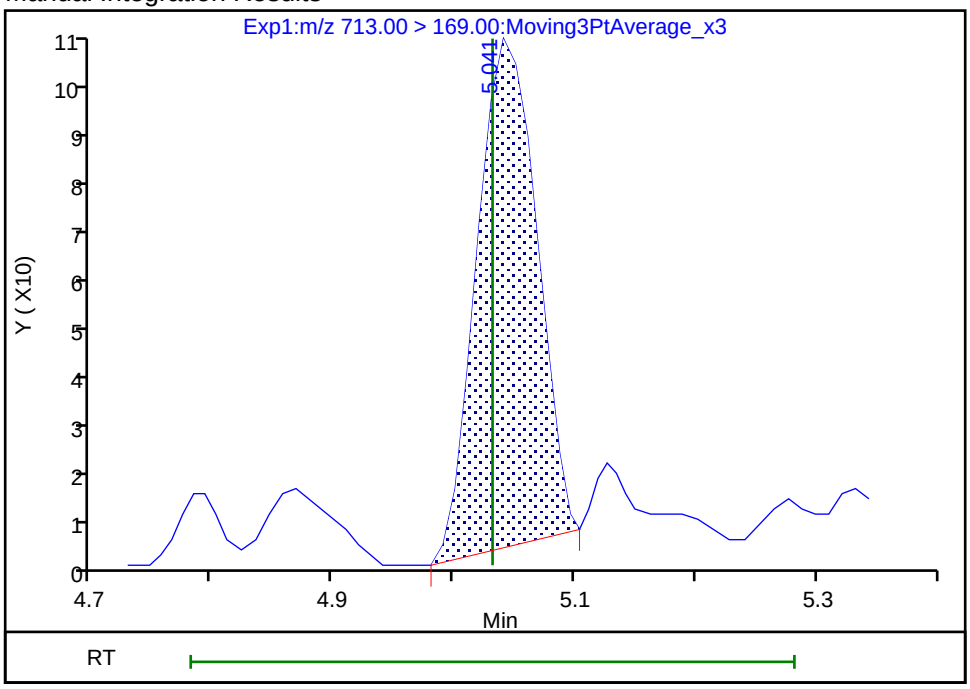
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.04
Area: 344
Amount: 0.003213
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:47:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

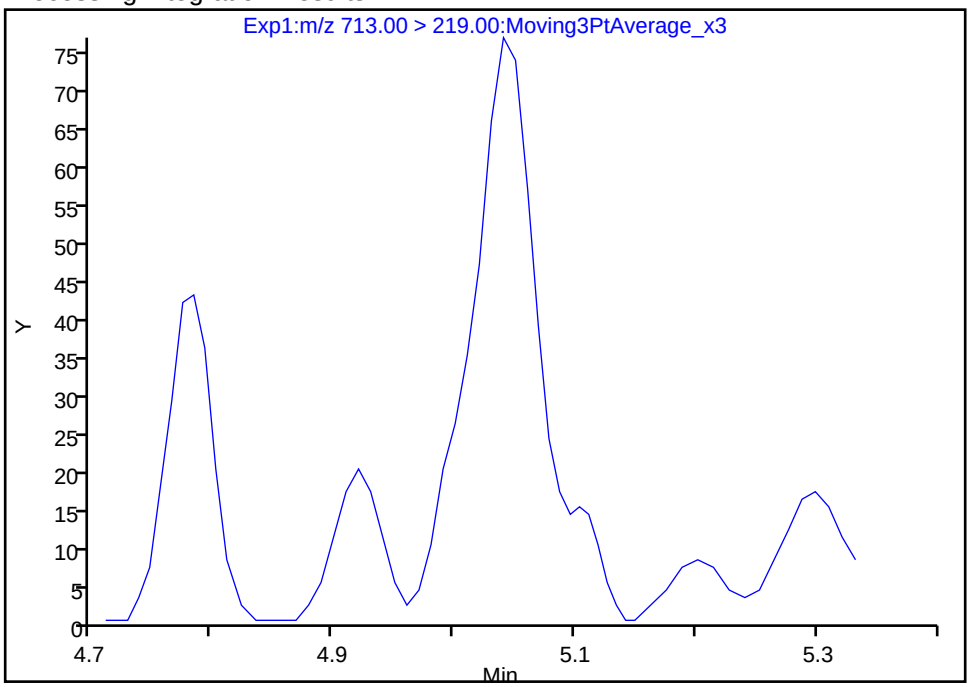
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

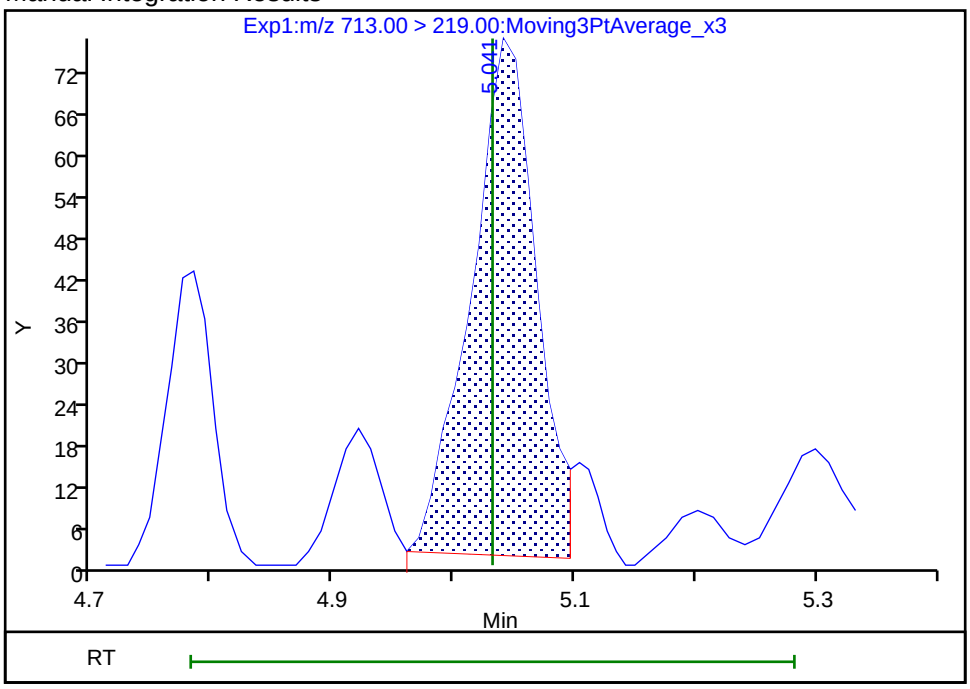
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.04
Area: 281
Amount: 0.003213
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:48:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

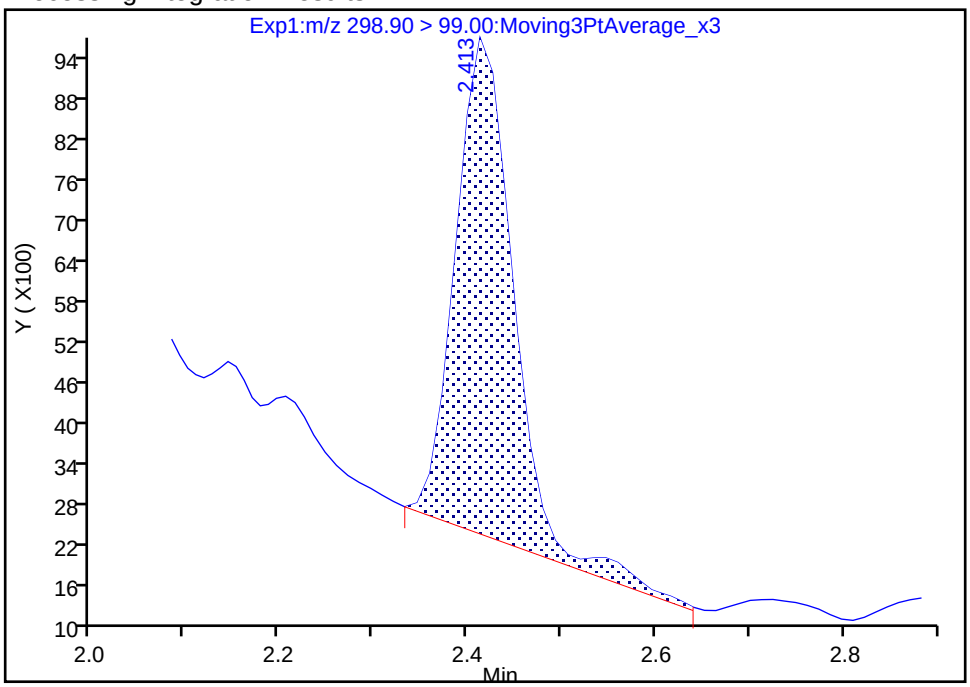
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

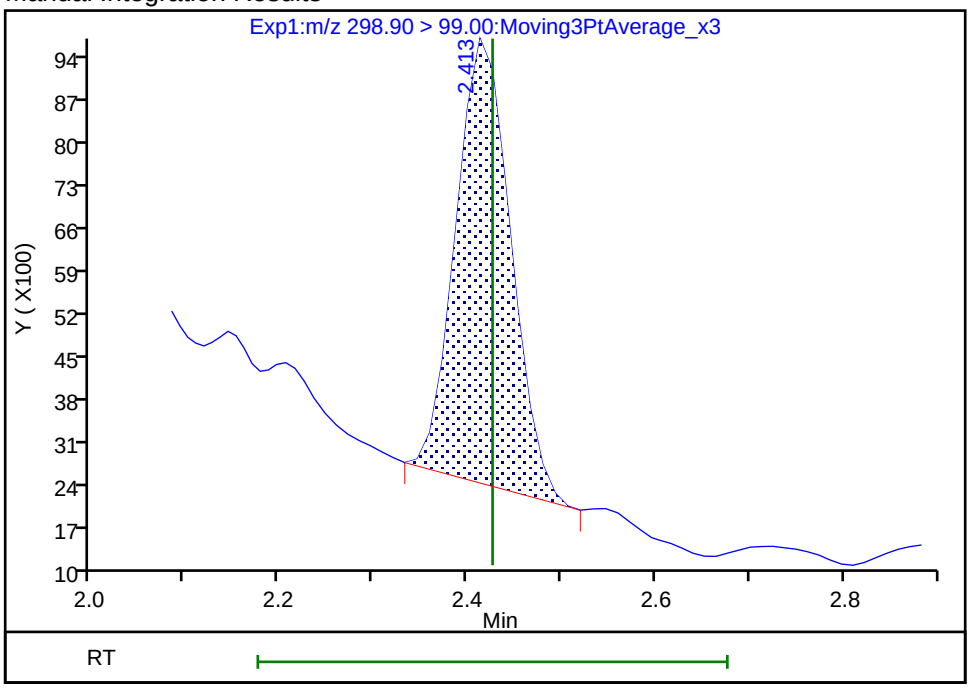
Processing Integration Results

RT: 2.41
Area: 31951
Amount: 0.038795
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 29798
Amount: 0.038795
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:43:45

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

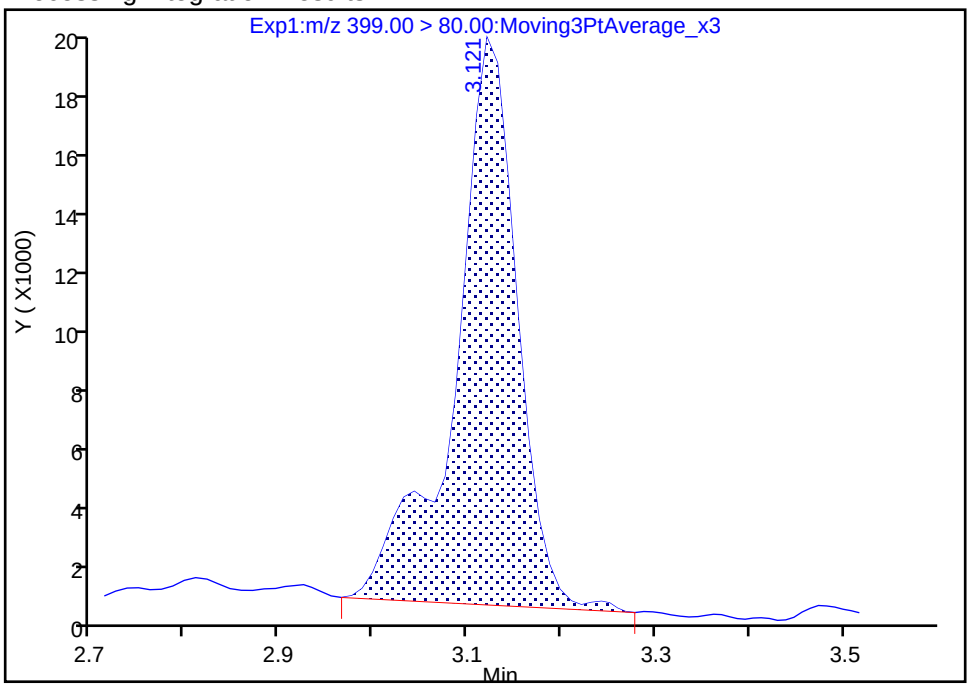
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

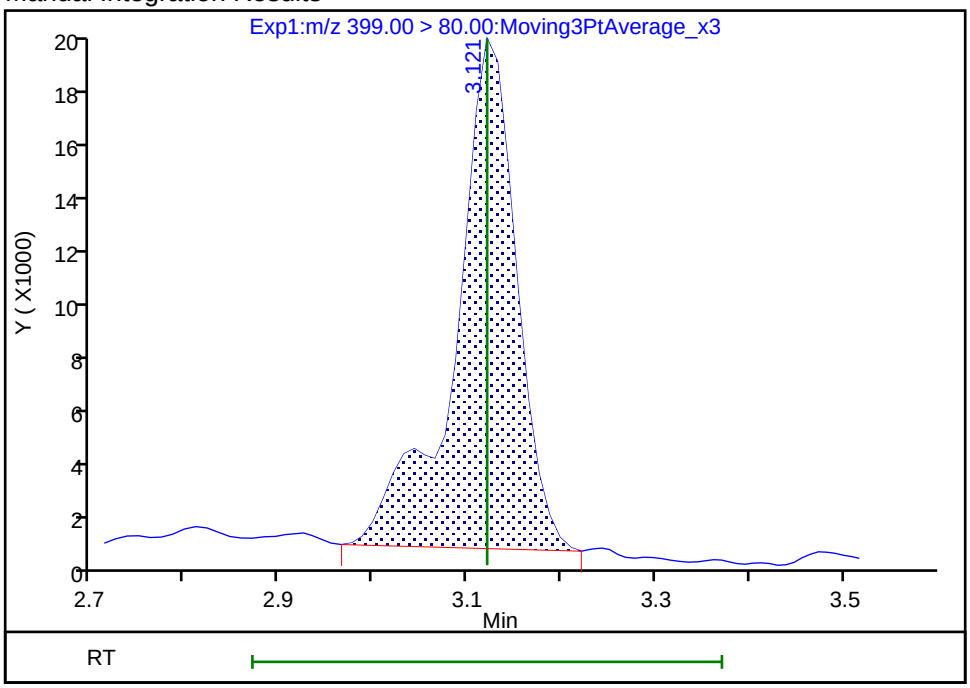
Processing Integration Results

RT: 3.12
Area: 84522
Amount: 0.070037
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 82701
Amount: 0.068529
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:44:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

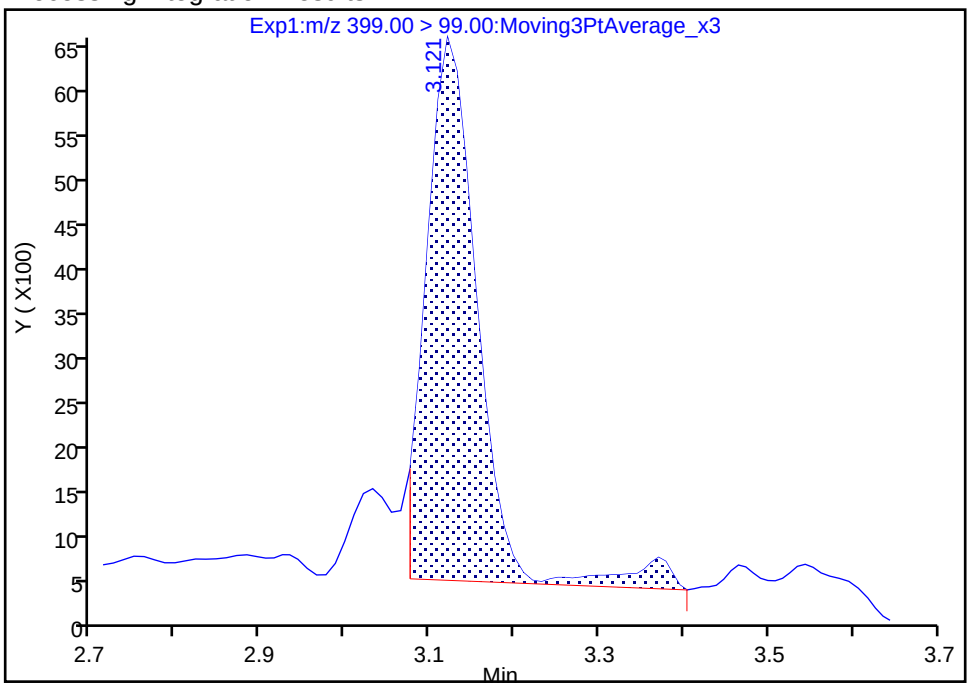
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

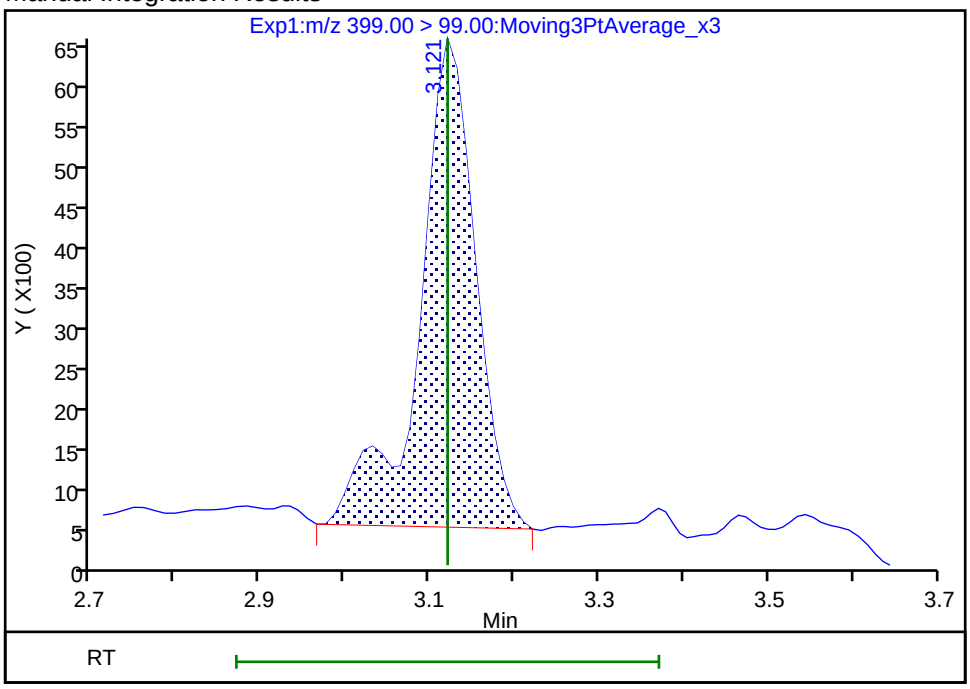
Processing Integration Results

RT: 3.12
Area: 25618
Amount: 0.070037
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 27919
Amount: 0.068529
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:44:07

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

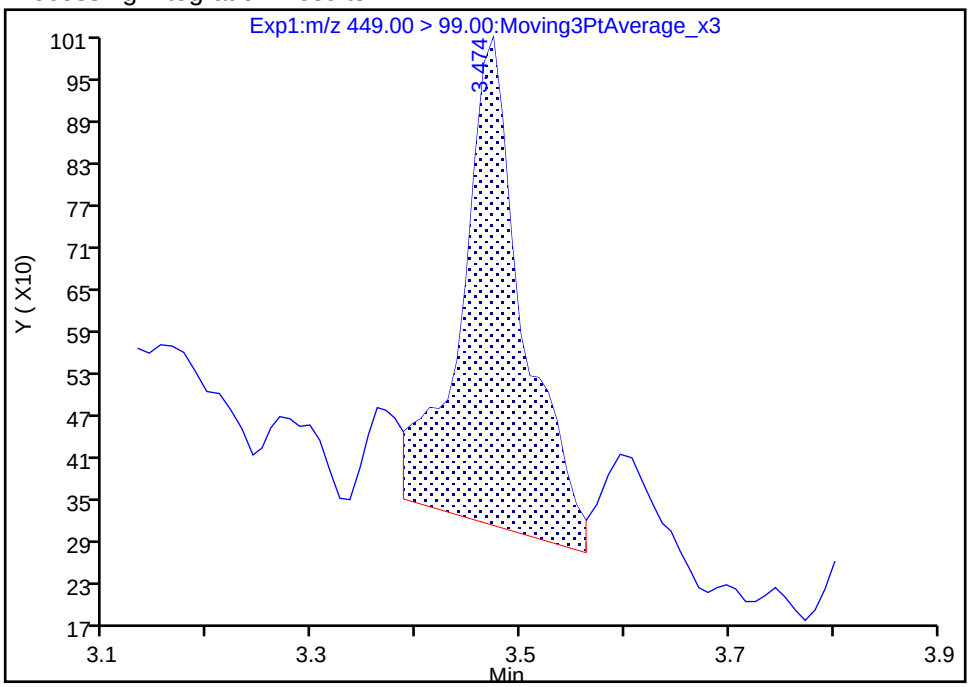
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

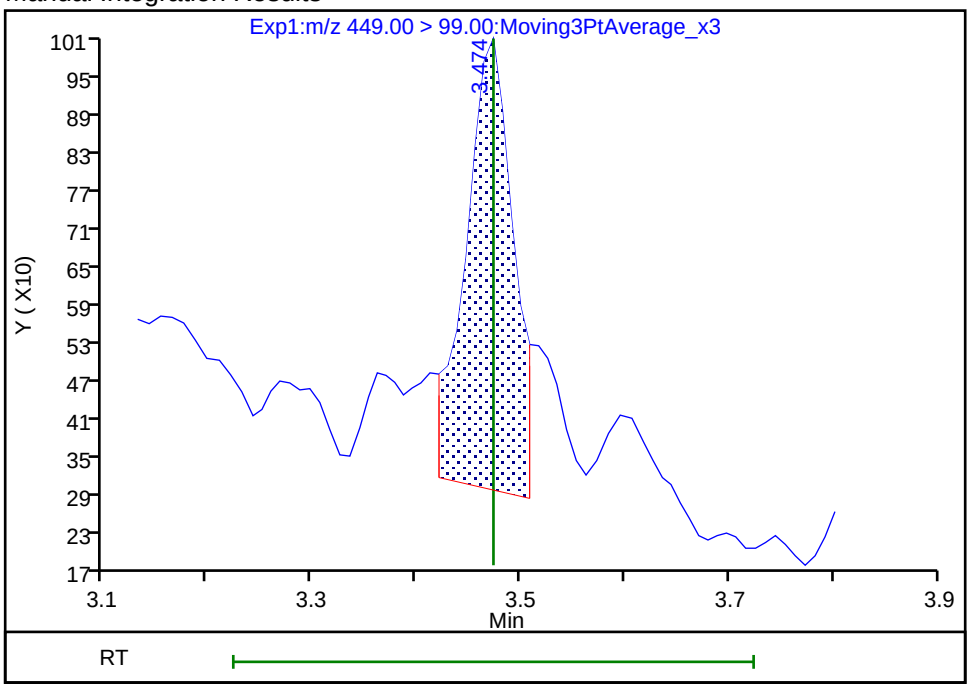
Processing Integration Results

RT: 3.47
Area: 2889
Amount: 0.012521
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 2225
Amount: 0.012601
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:44:42

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

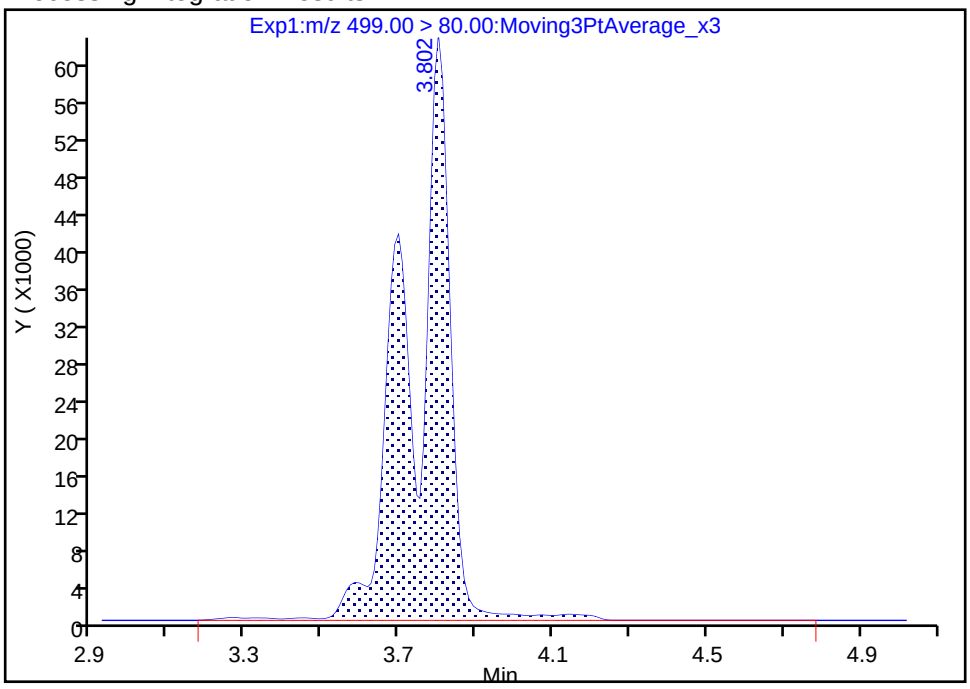
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

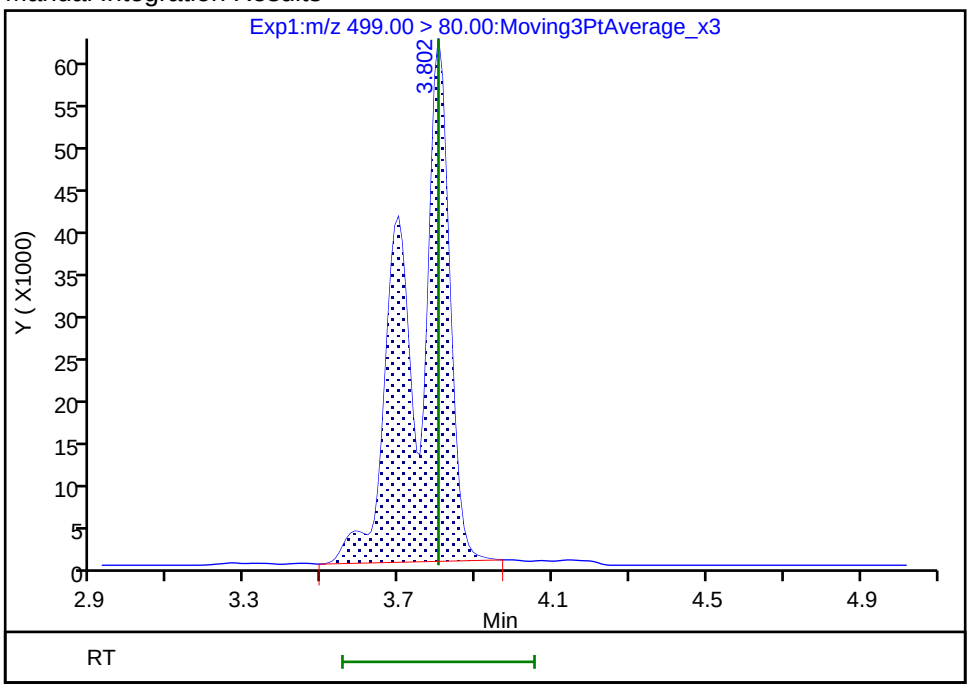
Processing Integration Results

RT: 3.80
Area: 455599
Amount: 0.557920
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 433018
Amount: 0.533634
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:45:23

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

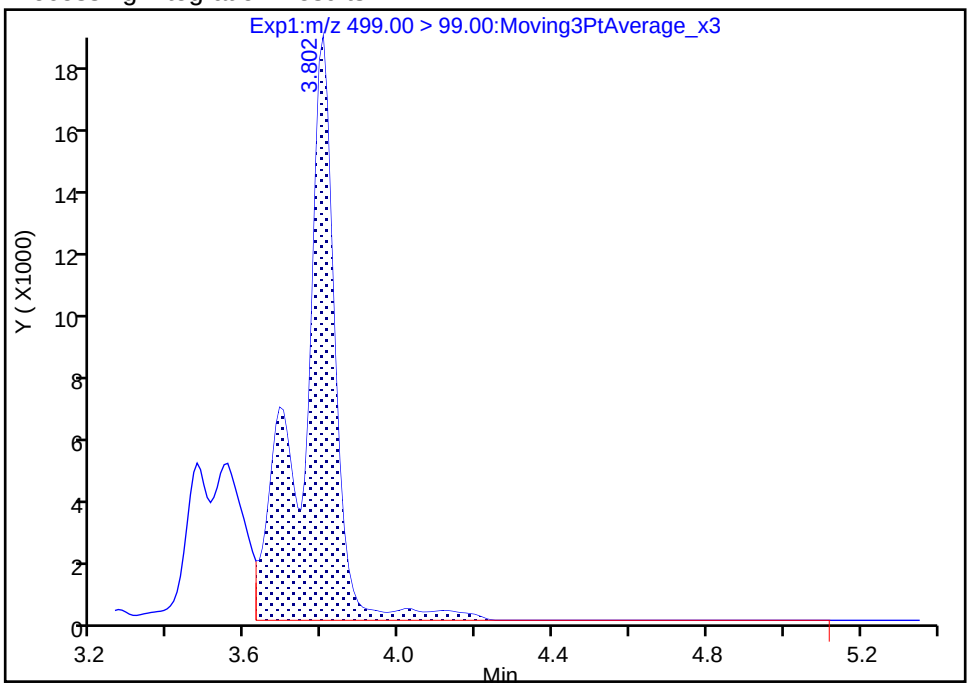
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

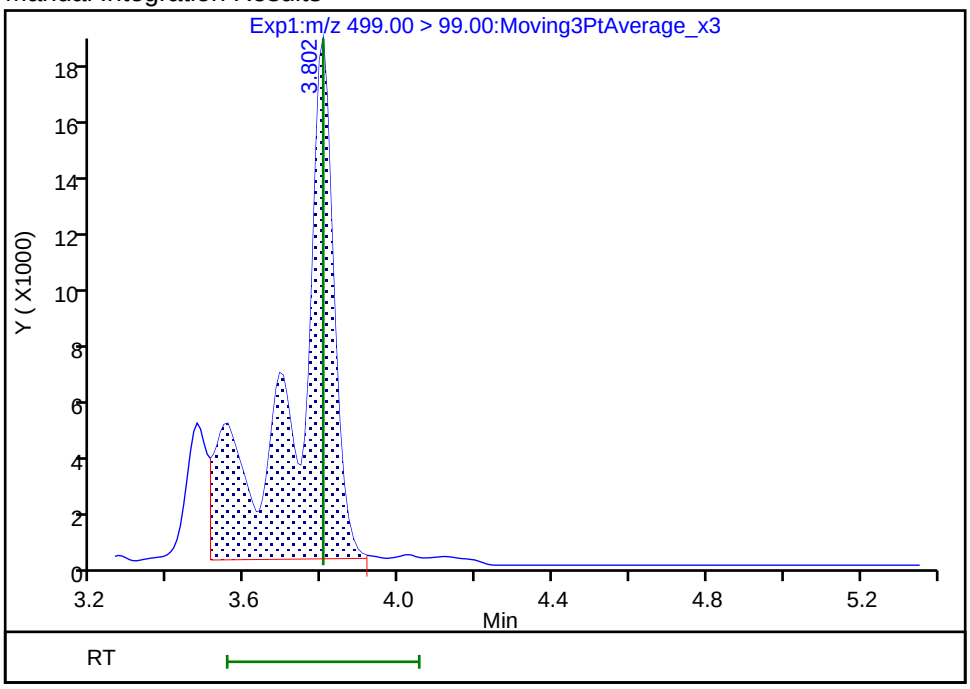
Processing Integration Results

RT: 3.80
Area: 108724
Amount: 0.557920
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 125358
Amount: 0.533634
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:45:46

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

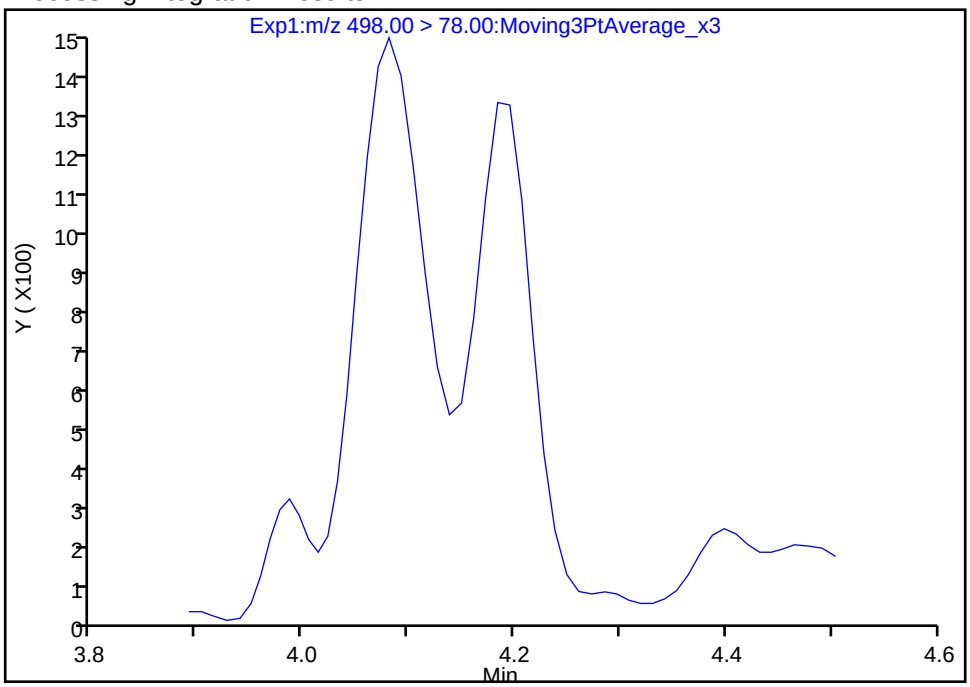
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

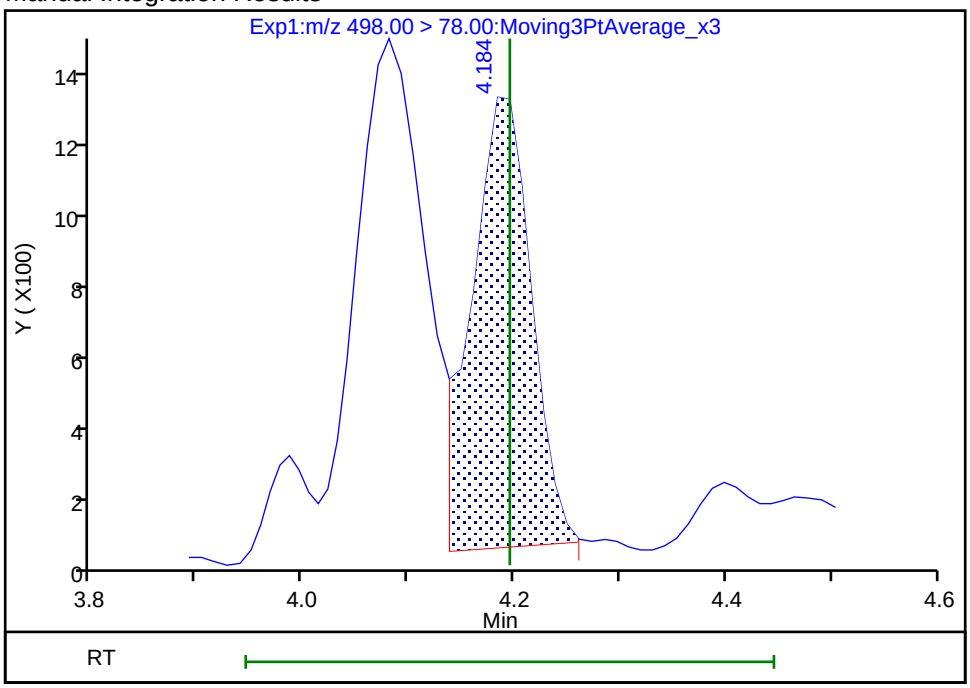
Not Detected
Expected RT: 4.20

Processing Integration Results



Manual Integration Results

RT: 4.18
Area: 4678
Amount: 0.004311
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:50:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

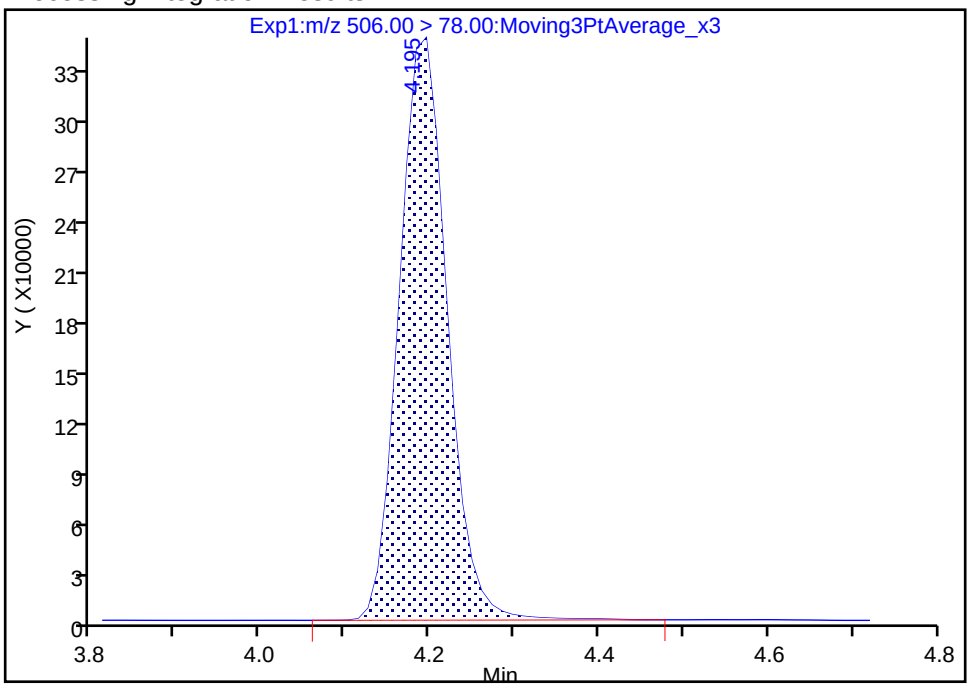
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

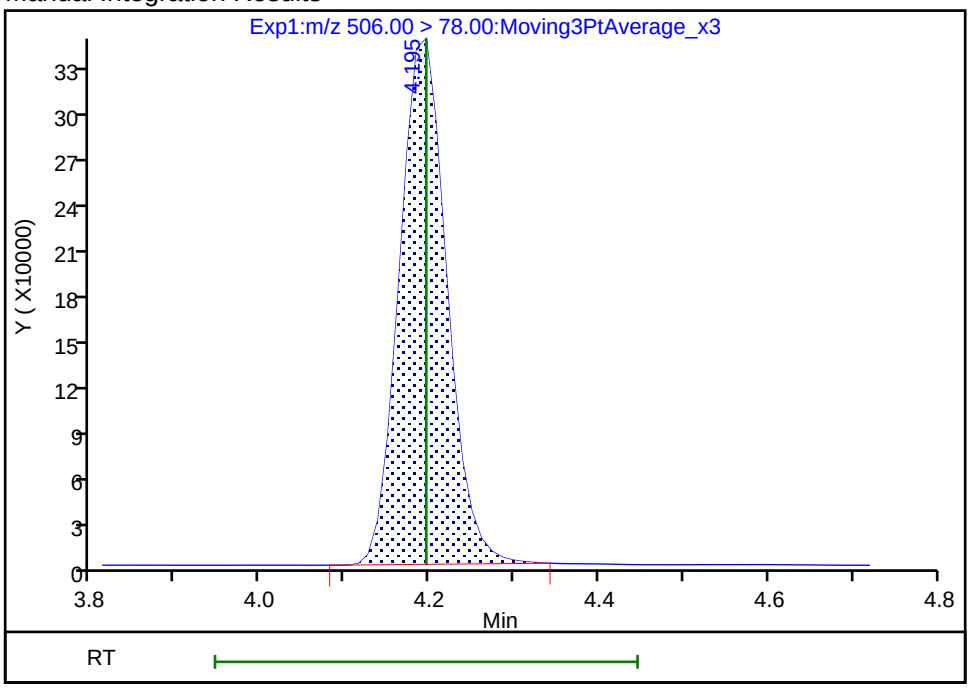
Processing Integration Results

RT: 4.20
Area: 1348860
Amount: 0.935110
Amount Units: ng/ml



Manual Integration Results

RT: 4.20
Area: 1336879
Amount: 0.926804
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:50:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

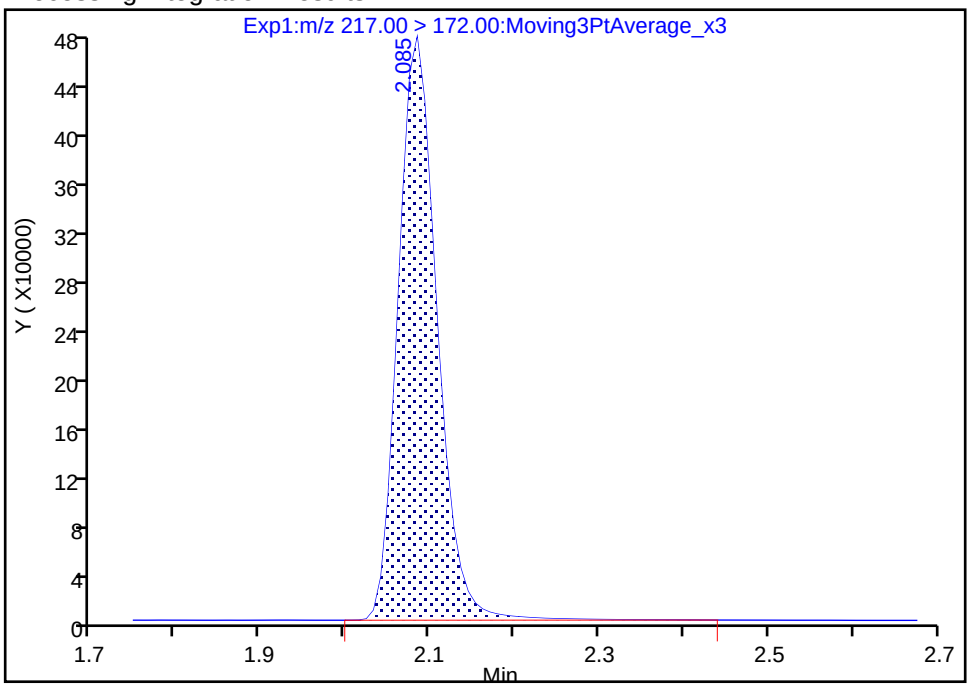
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

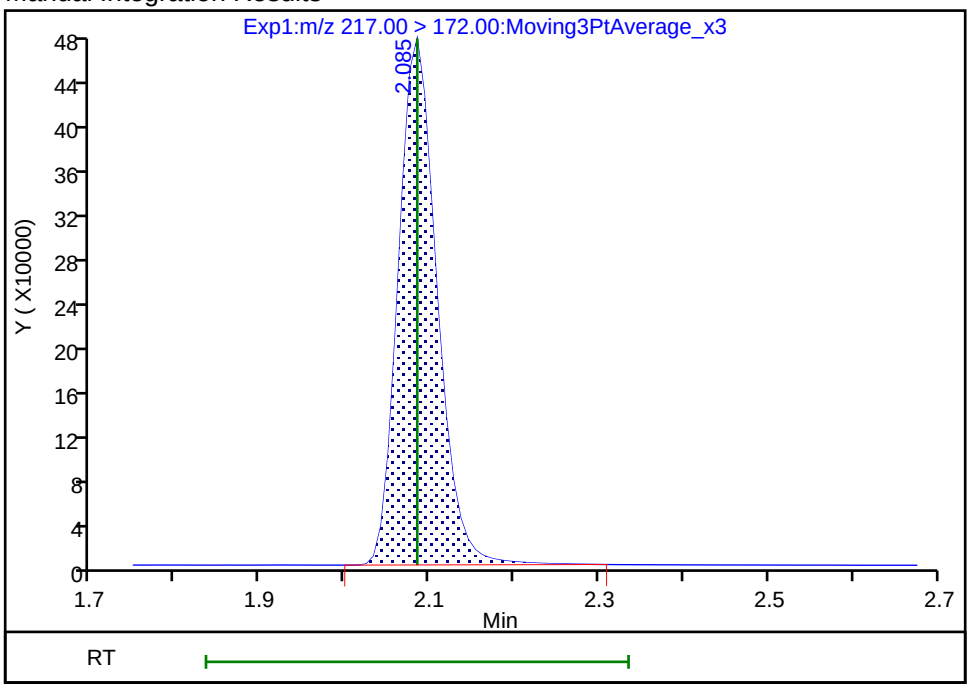
Processing Integration Results

RT: 2.08
Area: 1492420
Amount: 1.056235
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 1487034
Amount: 1.052423
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:48:49

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

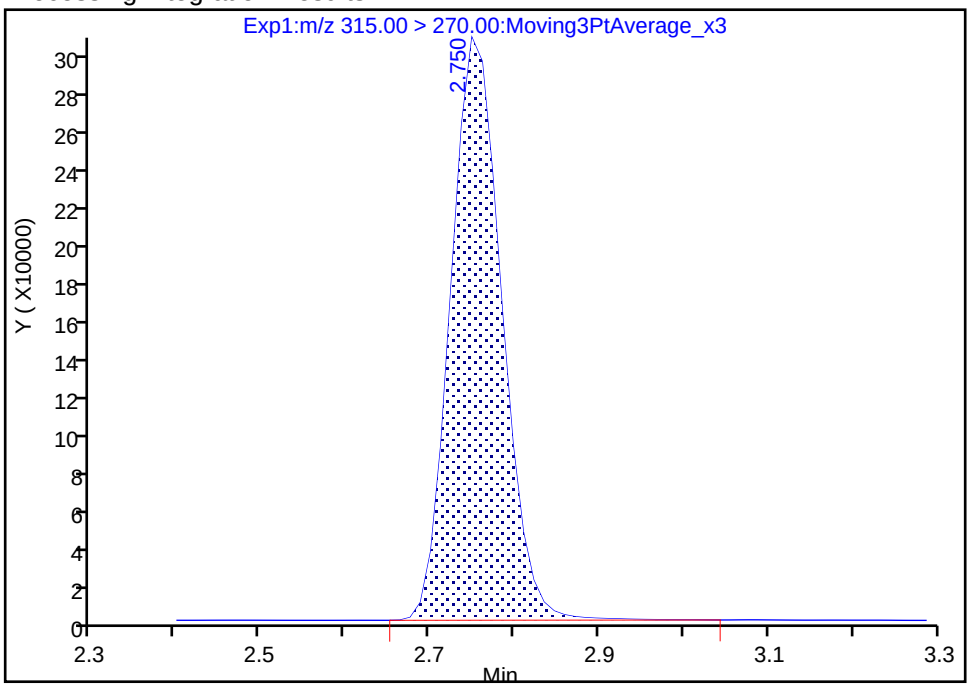
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

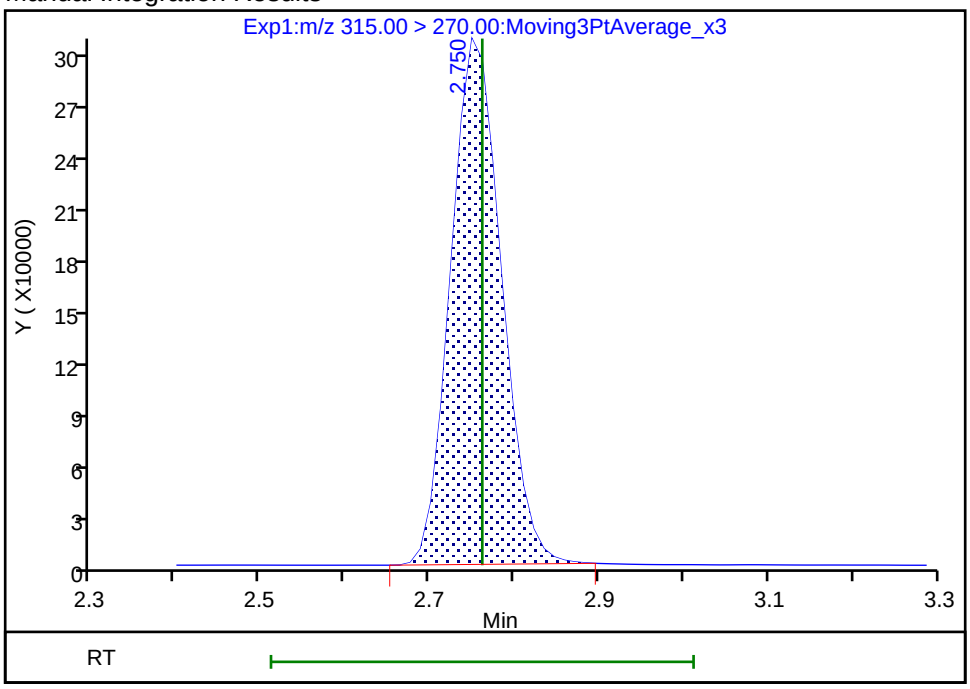
Processing Integration Results

RT: 2.75
Area: 1295768
Amount: 1.173214
Amount Units: ng/ml



Manual Integration Results

RT: 2.75
Area: 1285712
Amount: 1.164109
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:48:59

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

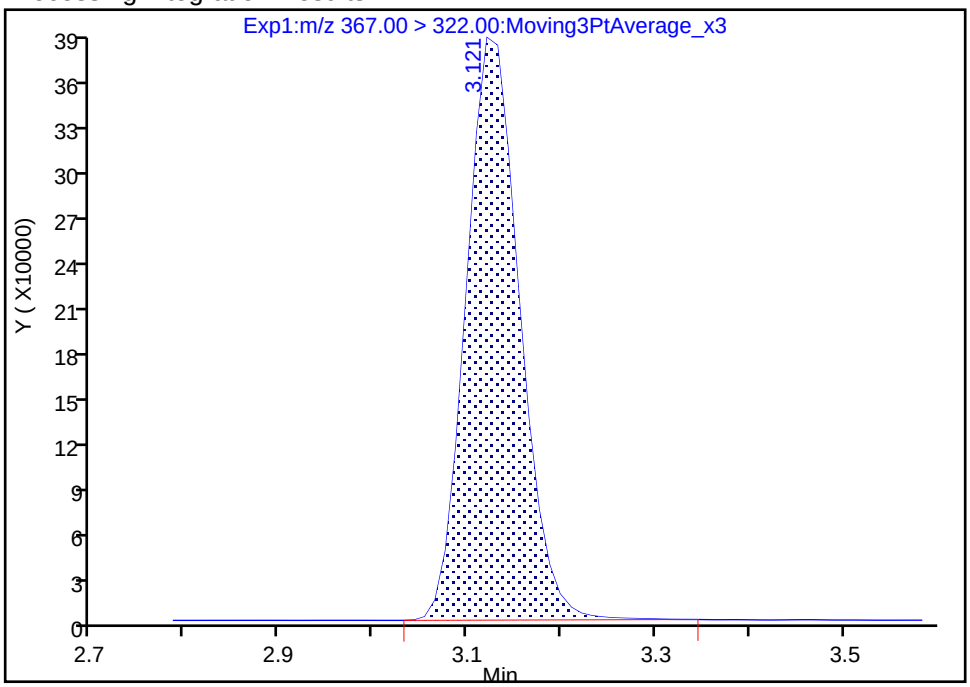
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d		
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2
Client ID:	MW-2A		
Operator ID:	lc812tech	ALS Bottle#:	16 Worklist Smp#: 19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

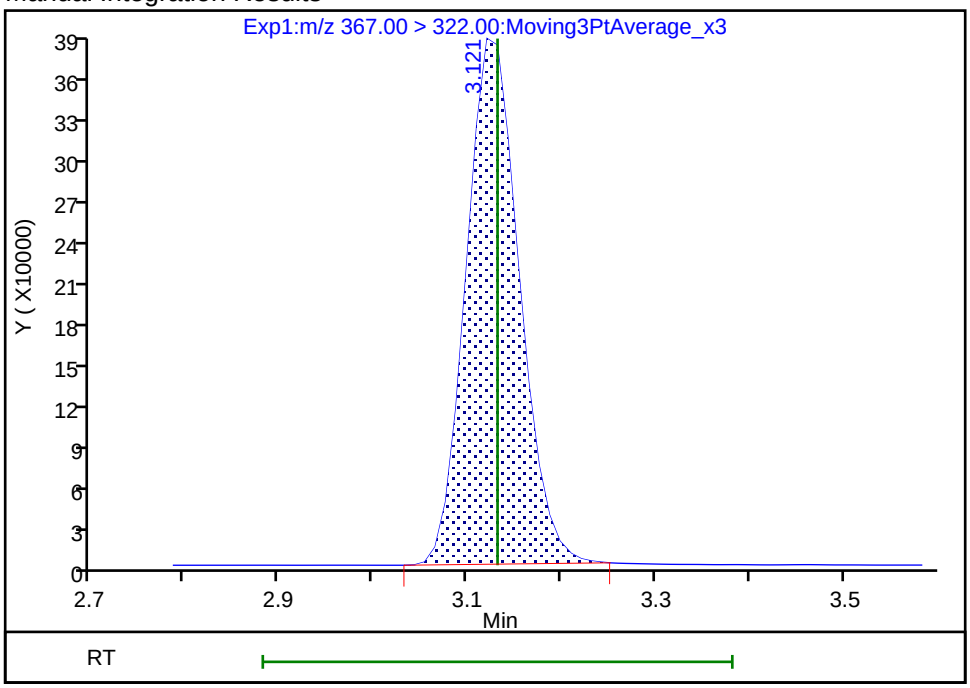
Processing Integration Results

RT: 3.12
Area: 1537849
Amount: 1.290520
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 1525860
Amount: 1.280459
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:49:33

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

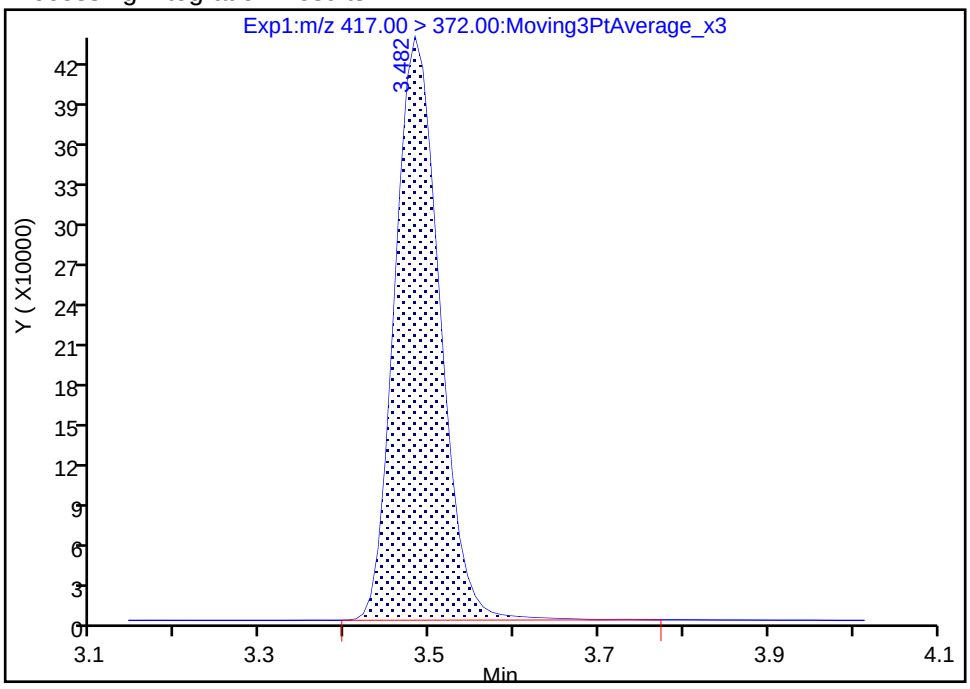
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

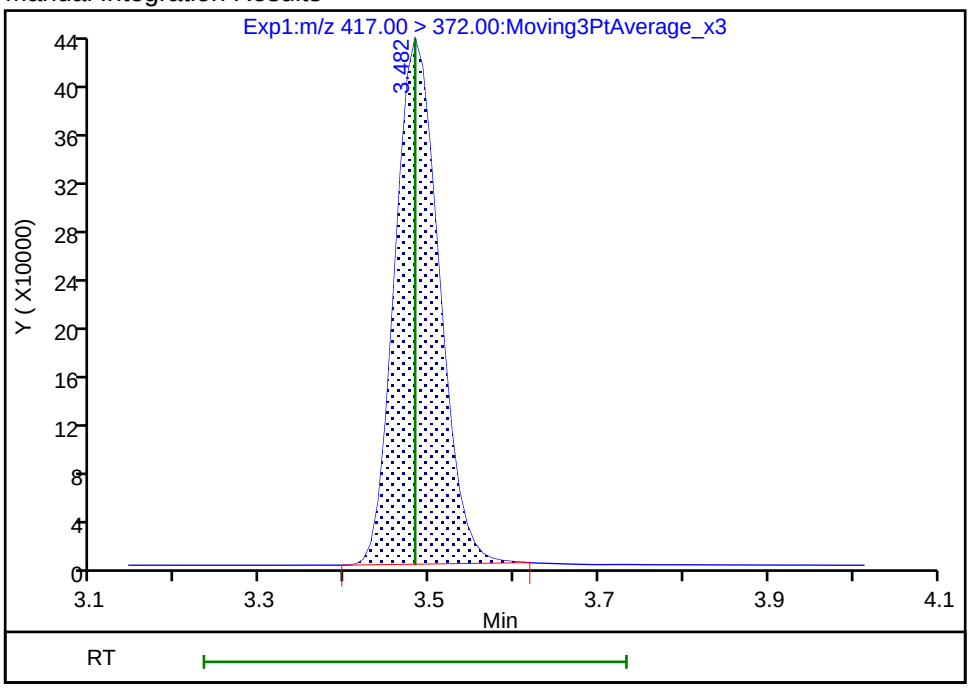
Processing Integration Results

RT: 3.48
Area: 1607178
Amount: 1.282590
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 1589733
Amount: 1.268668
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:49:48

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

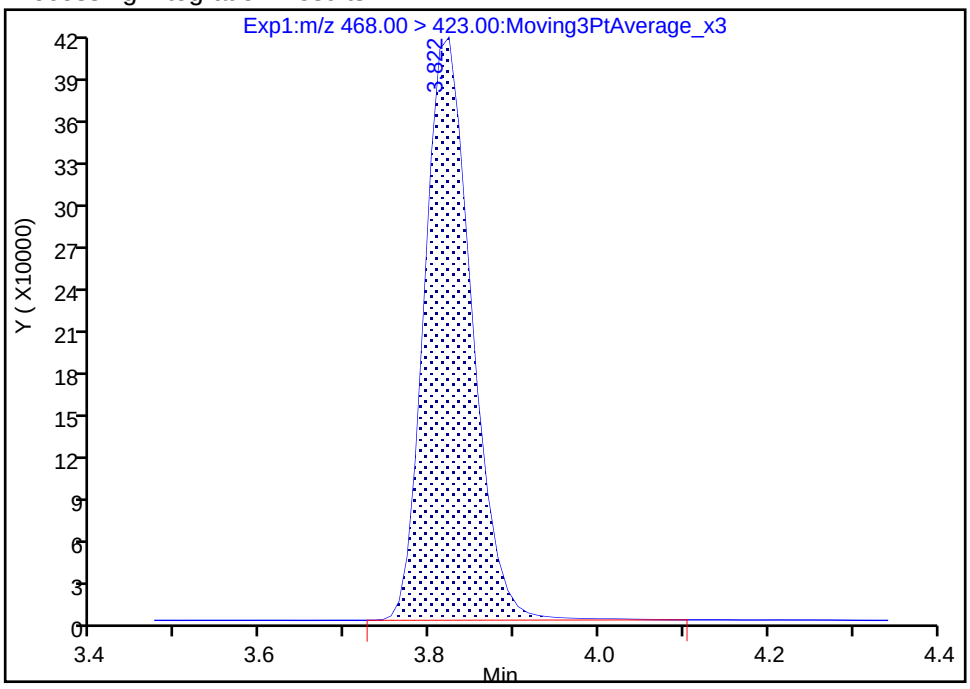
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

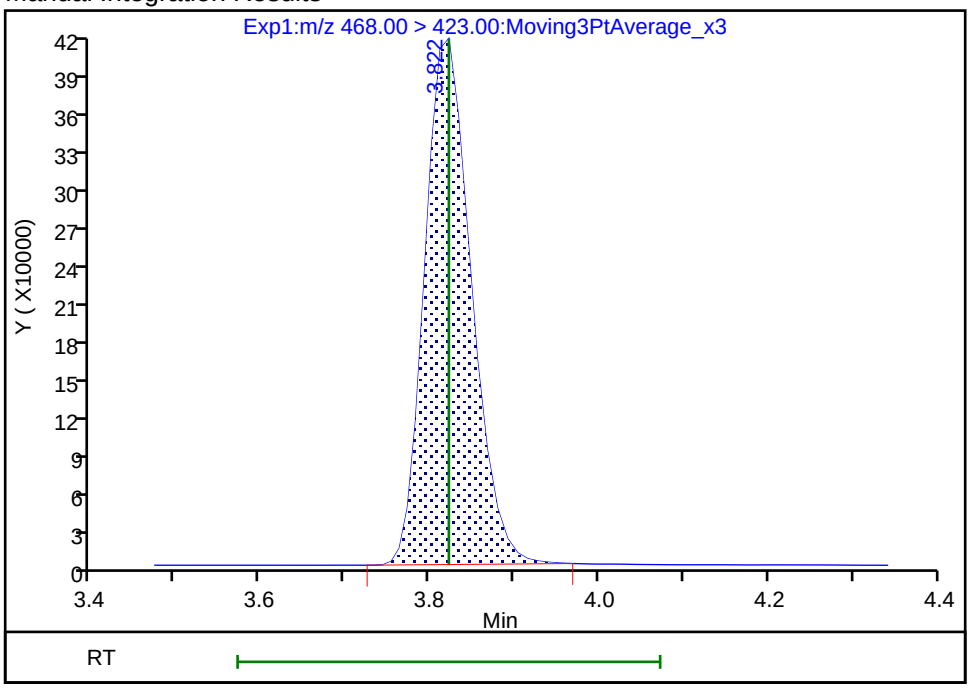
Processing Integration Results

RT: 3.82
Area: 1598703
Amount: 1.174128
Amount Units: ng/ml



Manual Integration Results

RT: 3.82
Area: 1587173
Amount: 1.165660
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:50:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

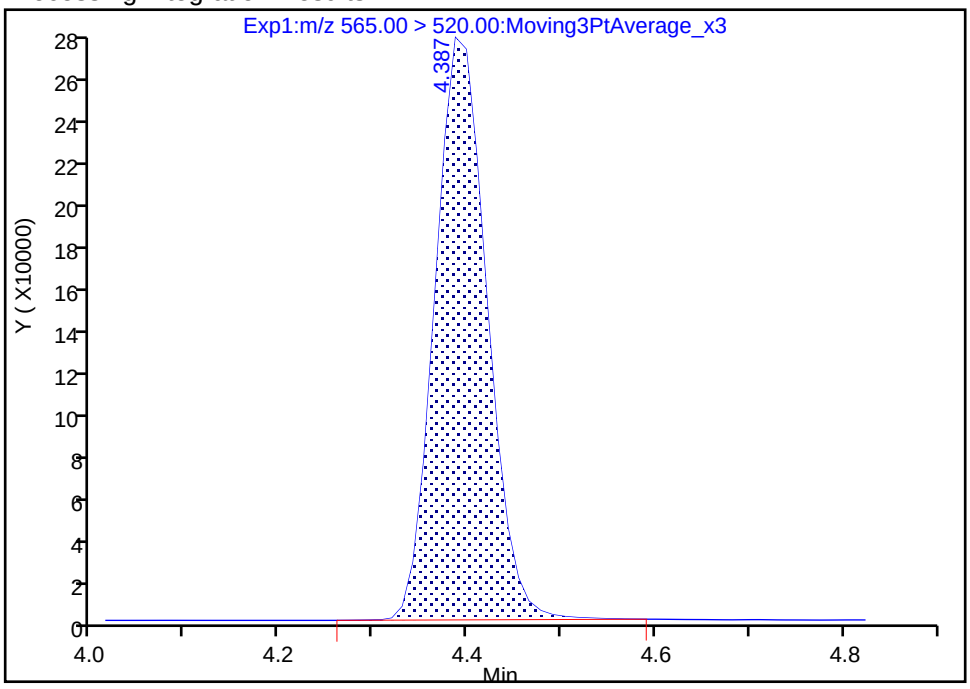
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

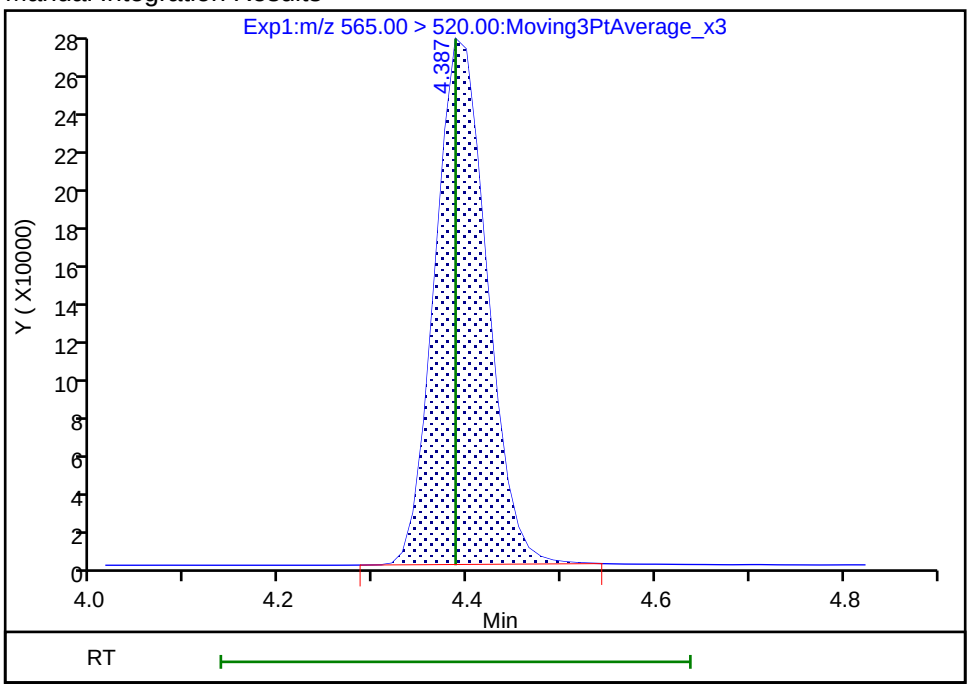
Processing Integration Results

RT: 4.39
Area: 1072184
Amount: 1.018534
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 1068473
Amount: 1.015009
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:51:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

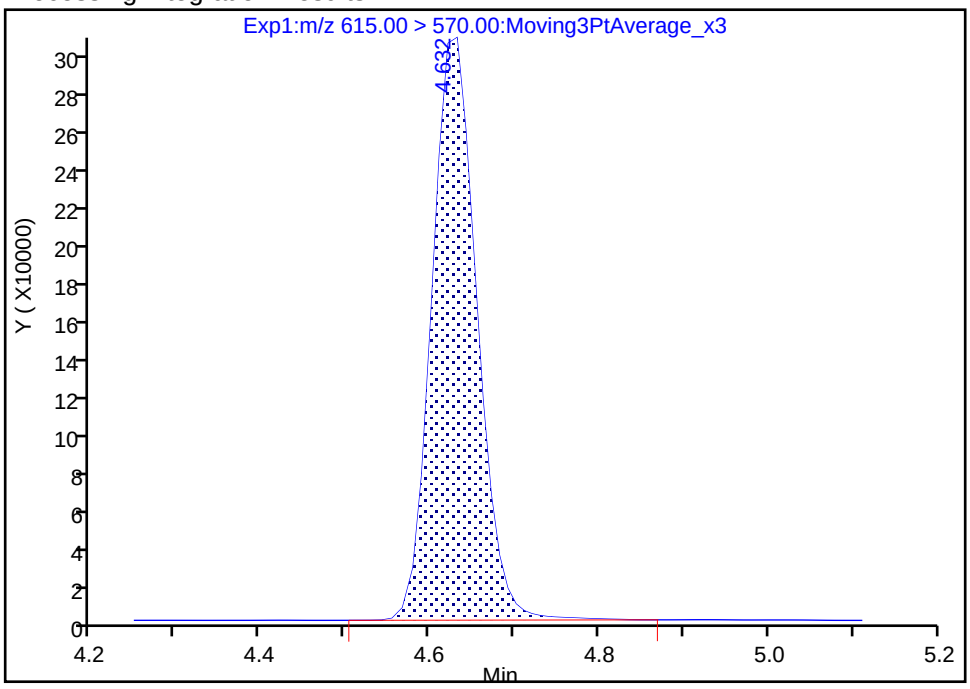
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 36 13C2 PFDoA, CAS: STL00998

Signal: 1

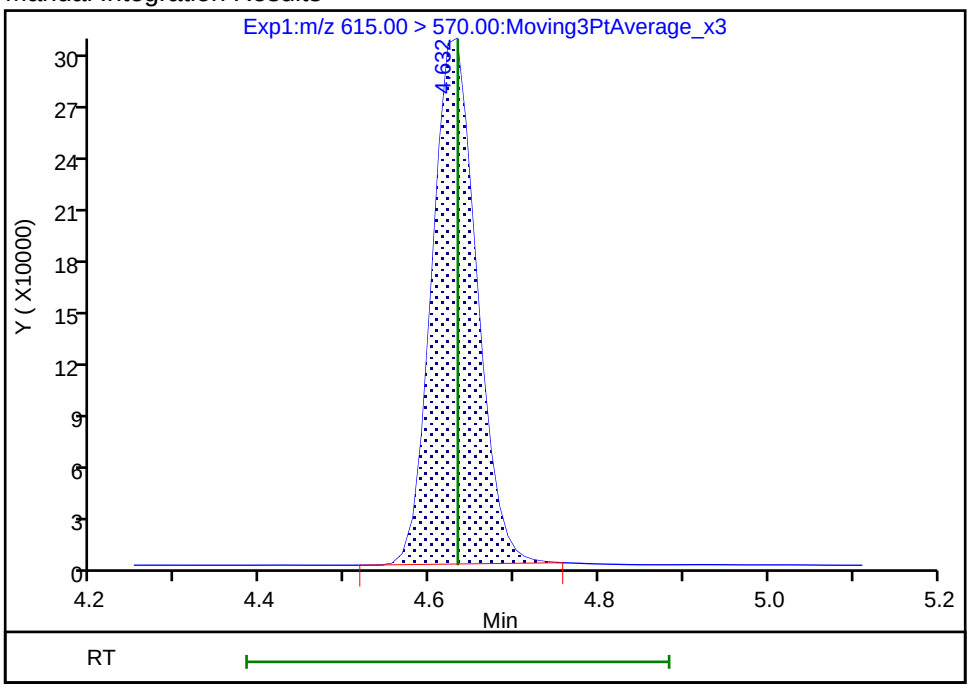
Processing Integration Results

RT: 4.63
Area: 1121247
Amount: 0.997363
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 1109084
Amount: 0.986544
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:52:34

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

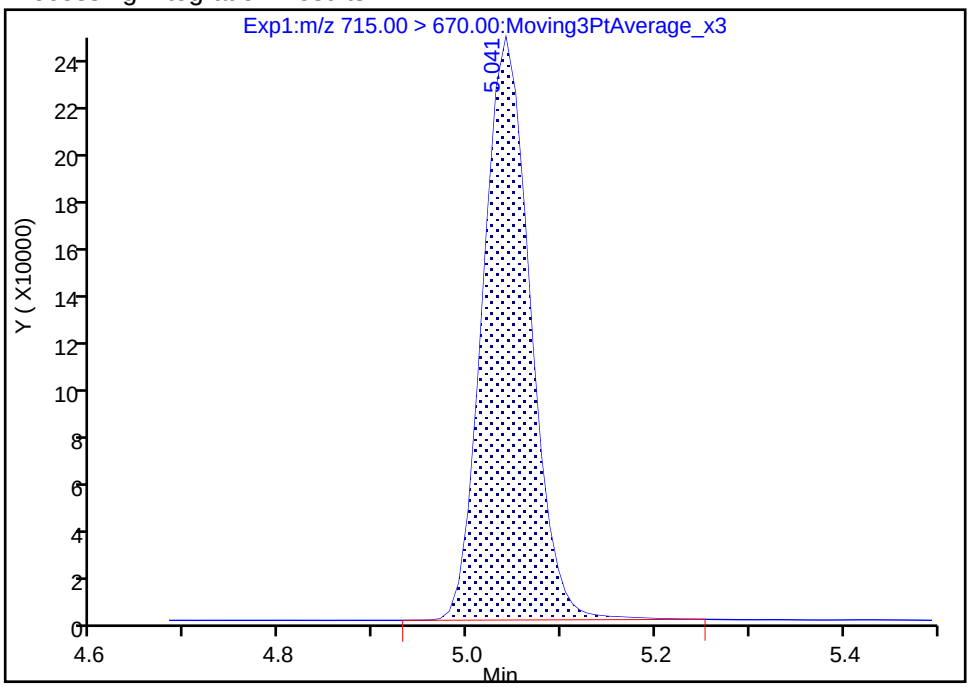
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

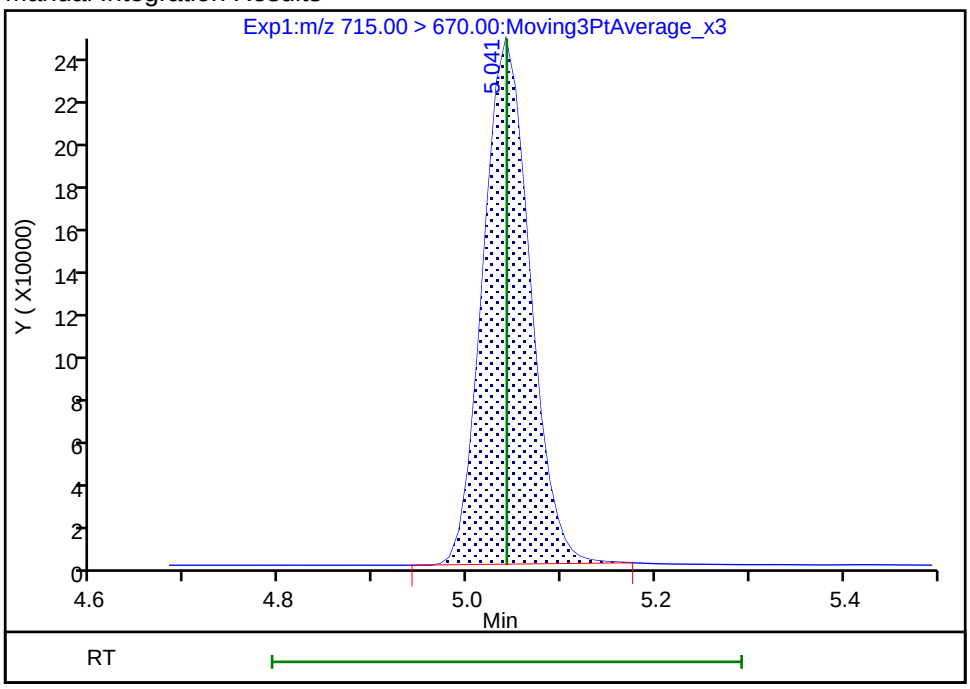
Processing Integration Results

RT: 5.04
Area: 873265
Amount: 0.950426
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 866014
Amount: 0.942535
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:52:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

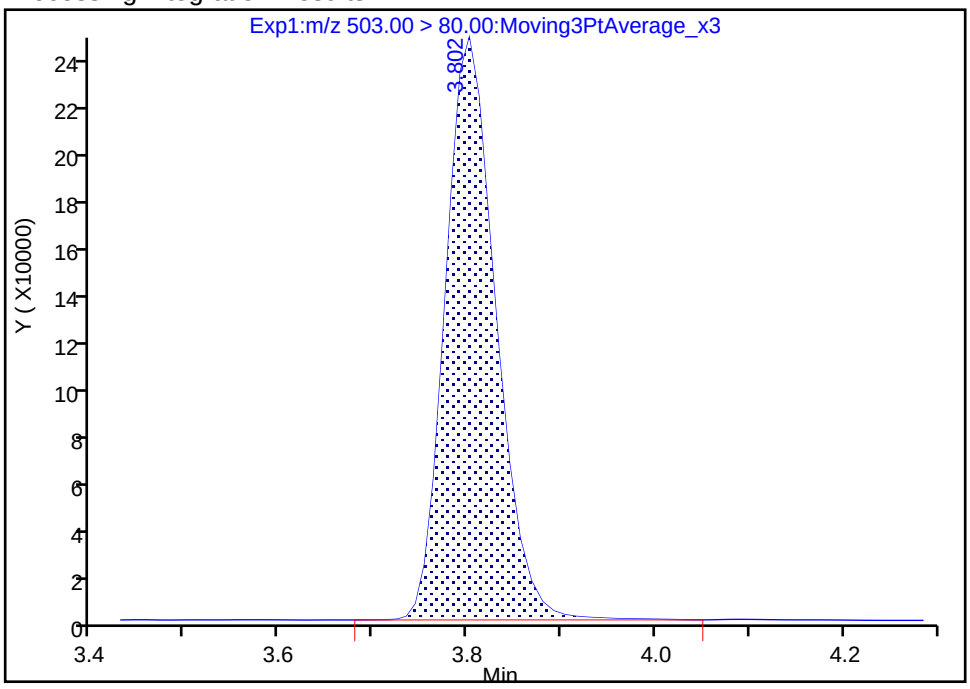
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

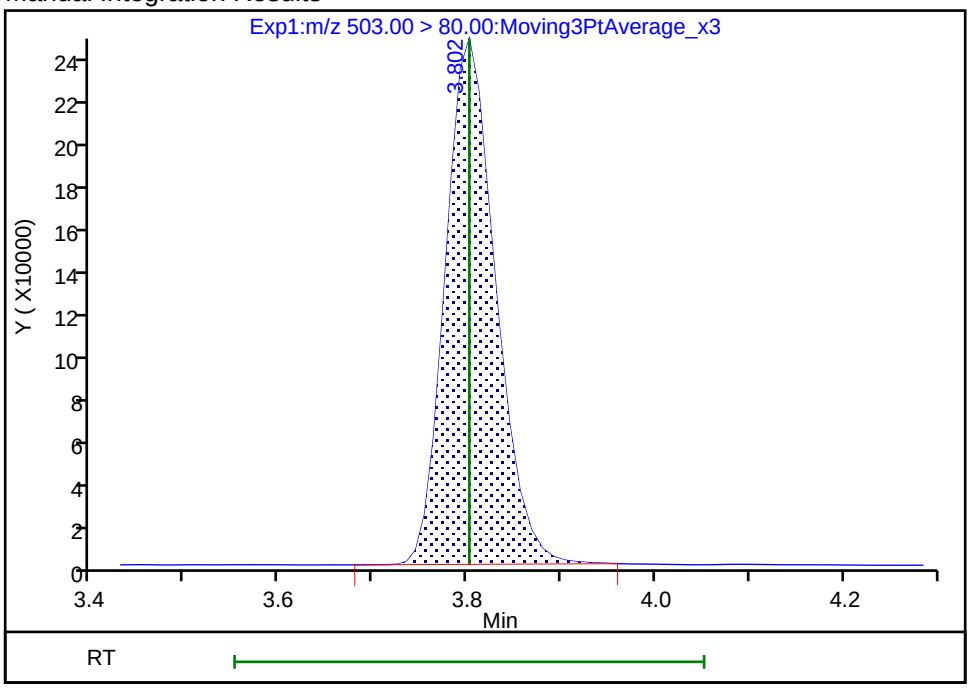
Processing Integration Results

RT: 3.80
Area: 913808
Amount: 0.949597
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 908043
Amount: 0.943606
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:50:03

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

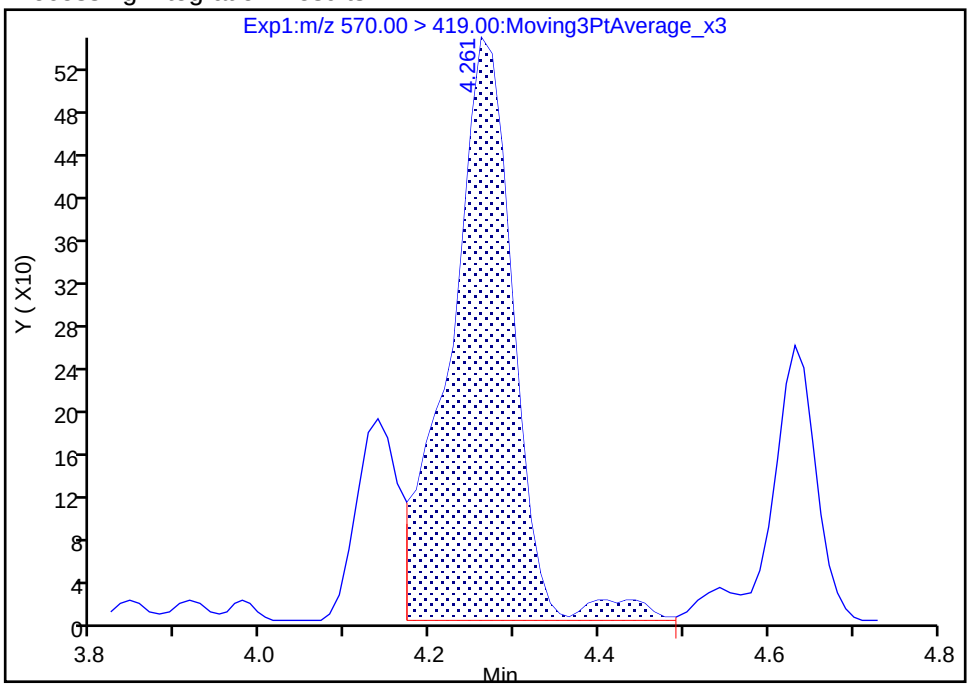
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

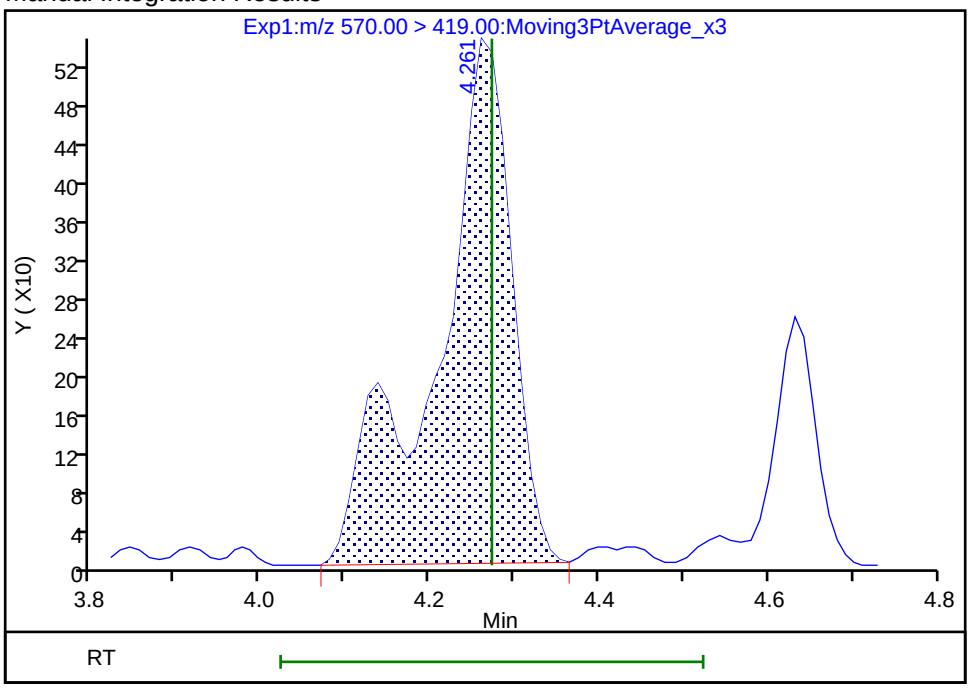
Processing Integration Results

RT: 4.26
Area: 2865
Amount: 0.016467
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 3388
Amount: 0.019578
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:47:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

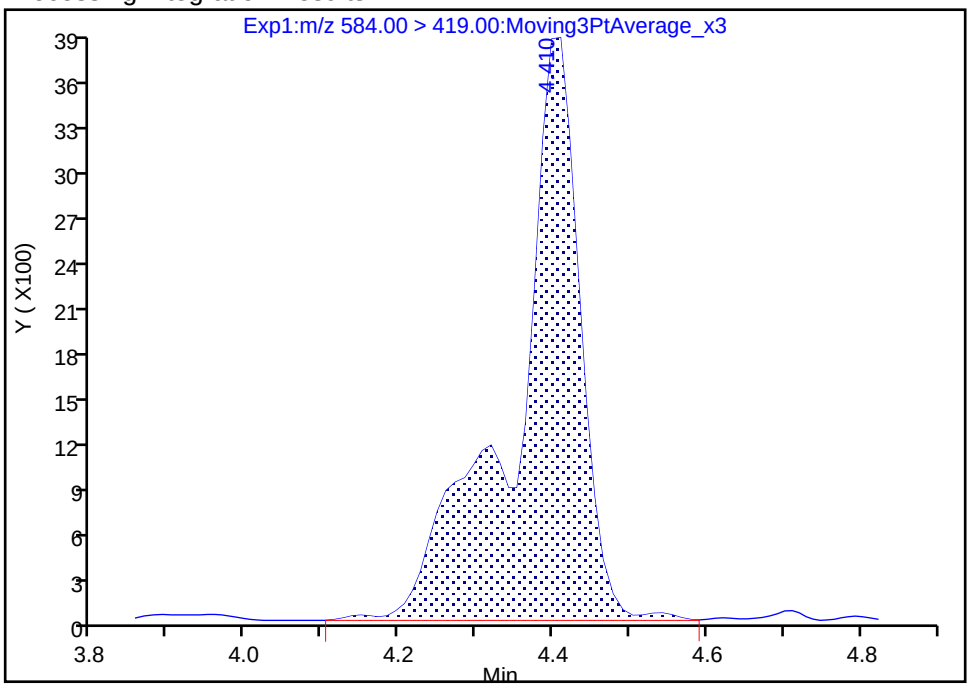
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

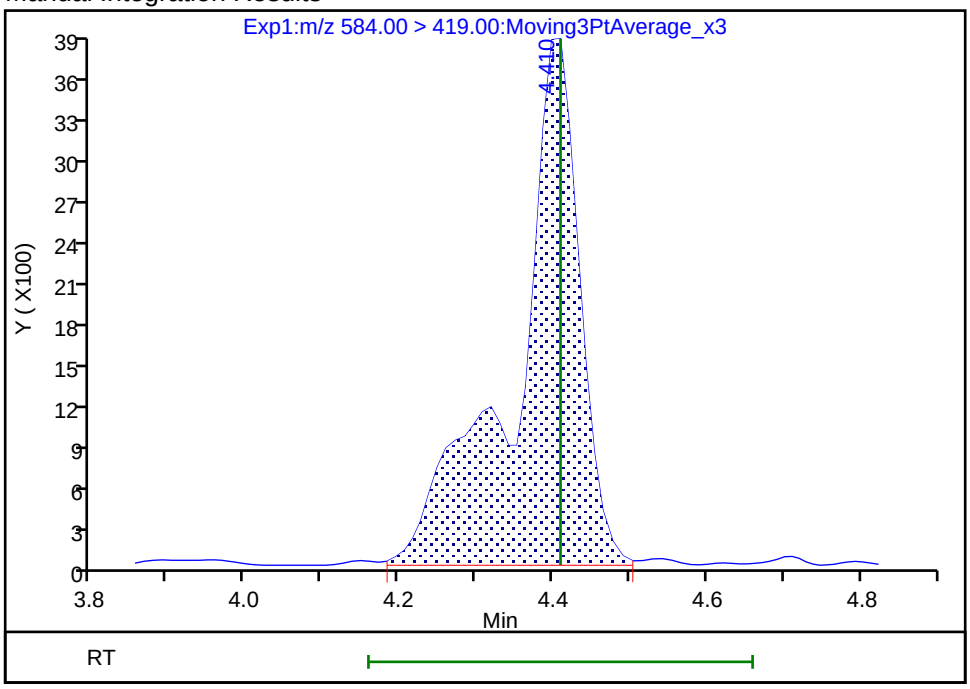
Processing Integration Results

RT: 4.41
Area: 22908
Amount: 0.137158
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 22651
Amount: 0.135620
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:52:28

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

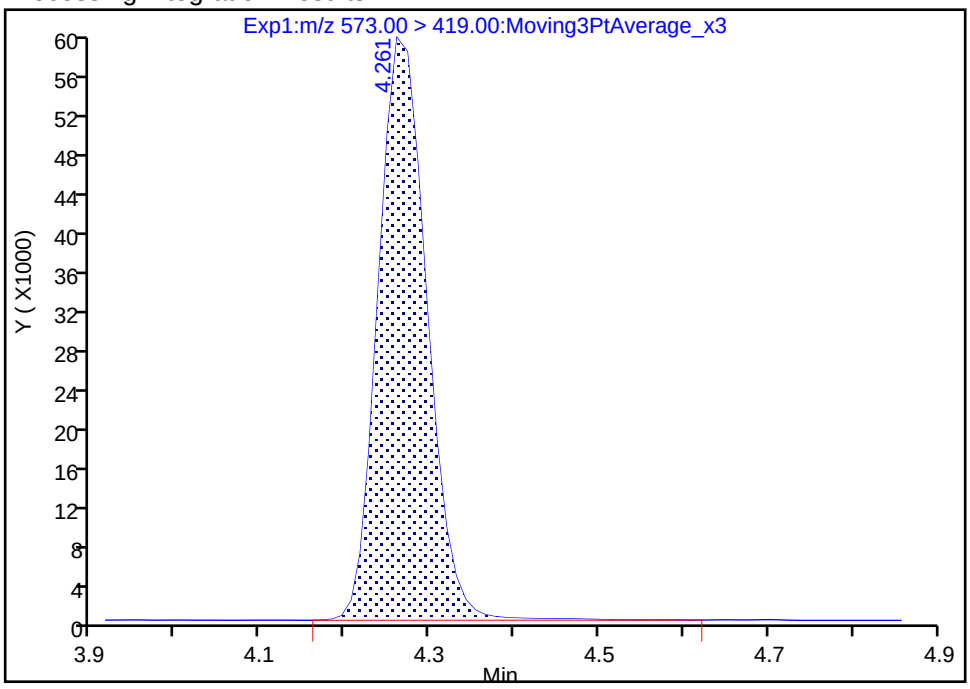
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

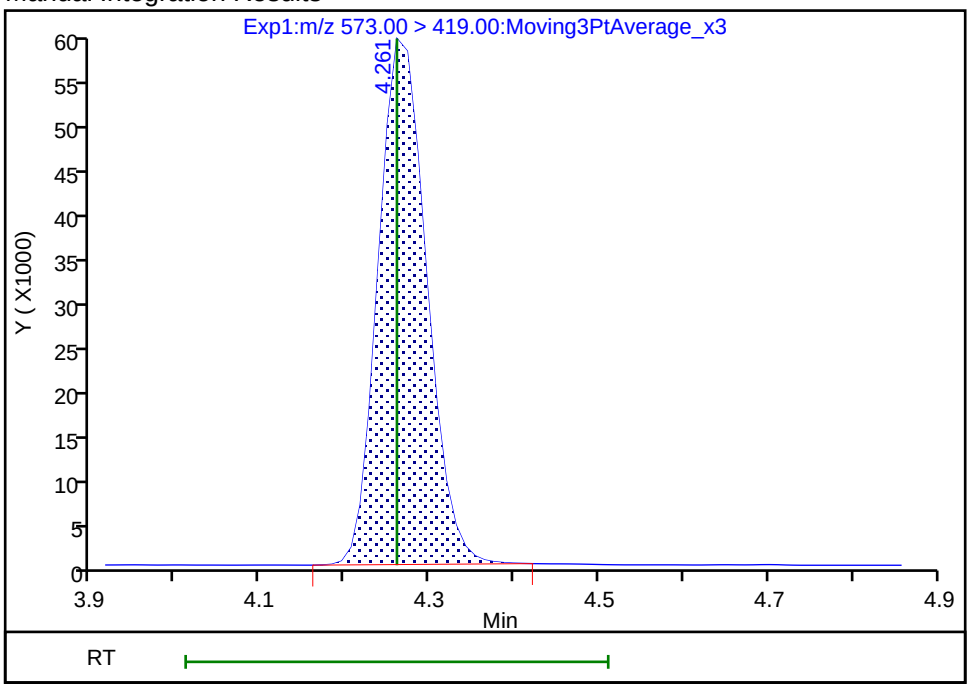
Processing Integration Results

RT: 4.26
Area: 239859
Amount: 1.378271
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 237865
Amount: 1.366813
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:50:52

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

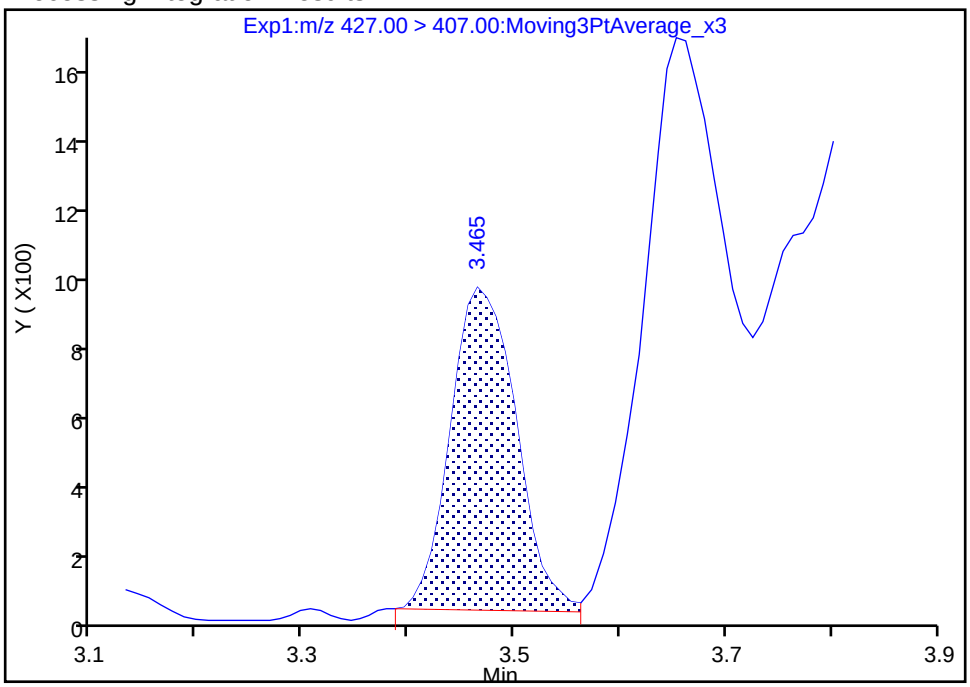
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

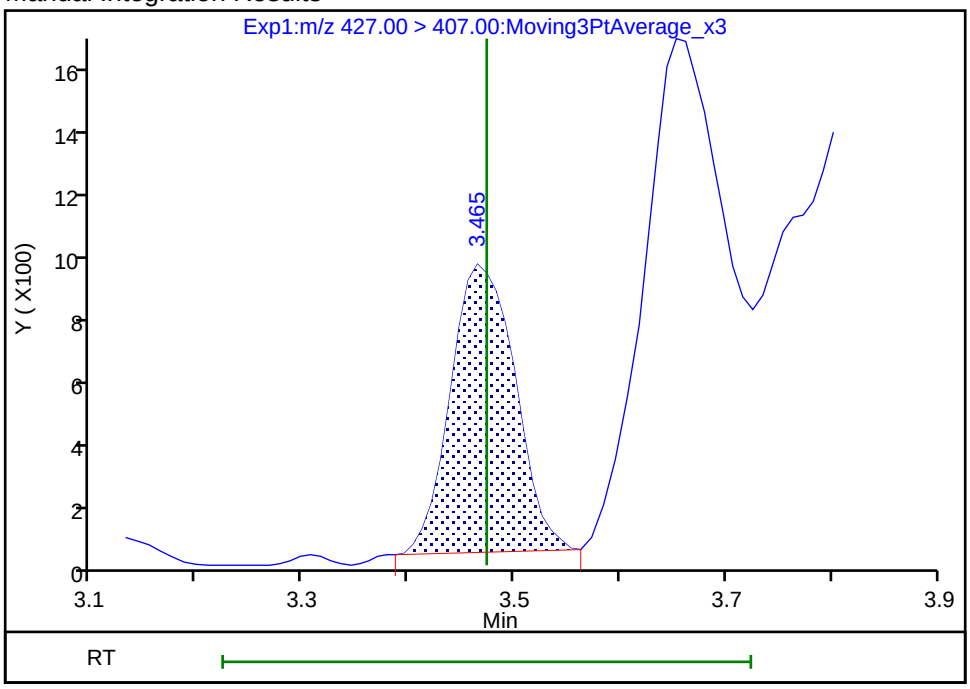
Processing Integration Results

RT: 3.46
Area: 3947
Amount: -0.015414
Amount Units: ng/ml



Manual Integration Results

RT: 3.46
Area: 3816
Amount: -0.015746
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:44:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

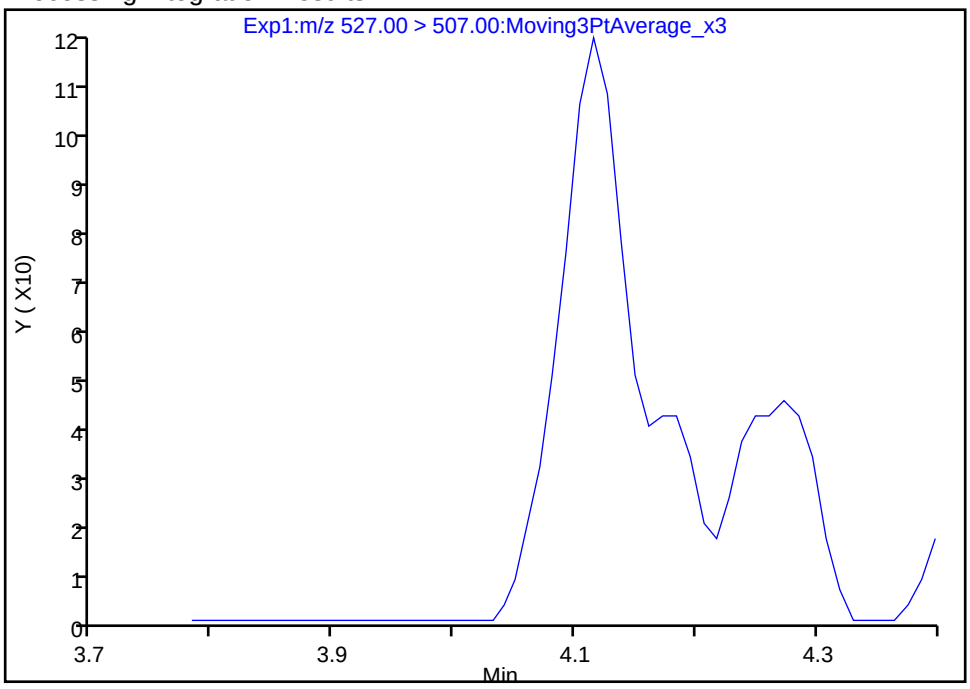
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

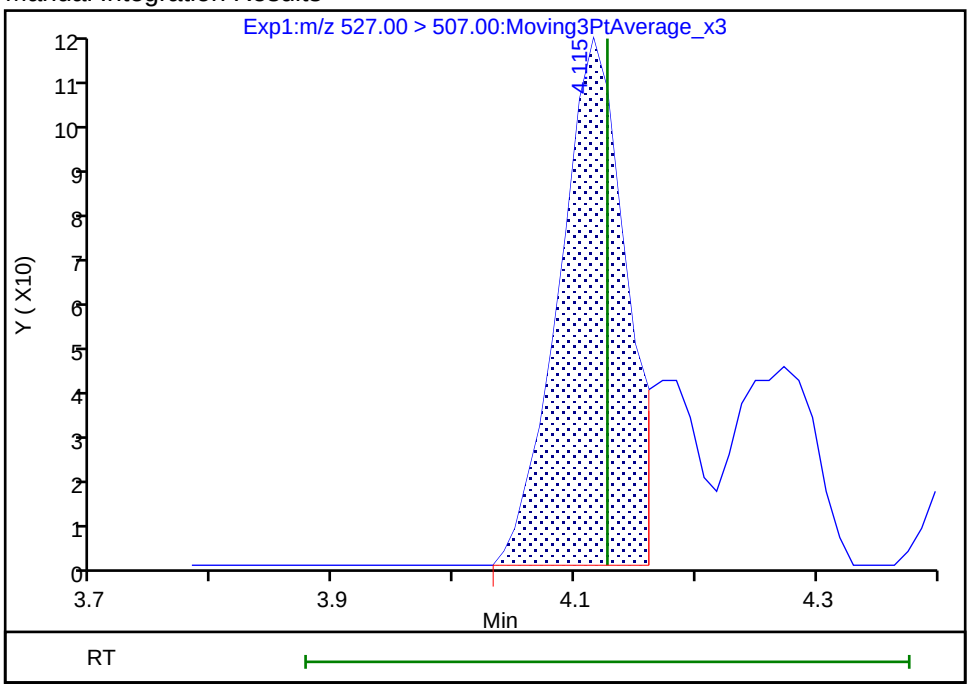
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.12
Area: 431
Amount: 0.001803
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:46:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

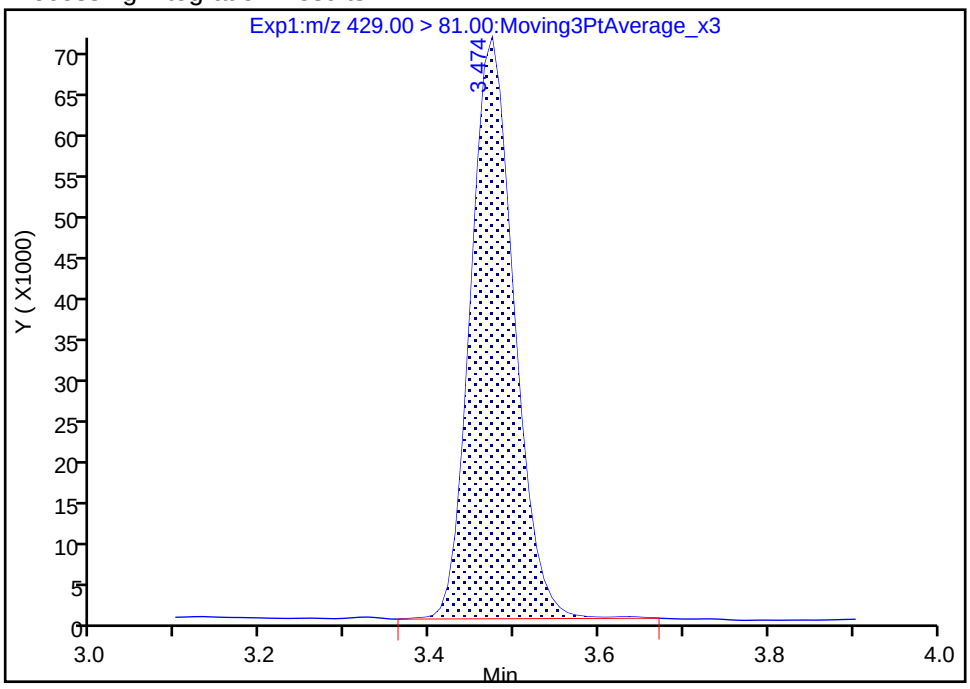
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A19.d				
Injection Date:	13-Jun-2022 19:36:09	Instrument ID:	LC812		
Lims ID:	480-198818-C-2-A	Lab Sample ID:	200-198818-2		
Client ID:	MW-2A				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 12 M2-6:2 FTS, CAS: STL02279

Signal: 1

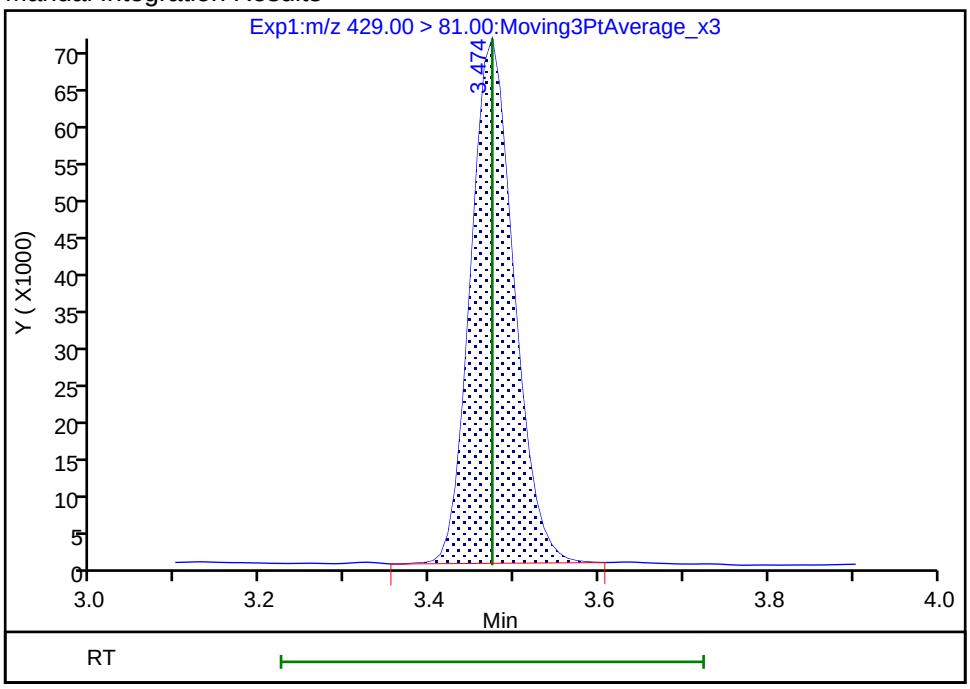
Processing Integration Results

RT: 3.47
Area: 253883
Amount: 1.270532
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 252408
Amount: 1.263151
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 12:49:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-2B Lab Sample ID: 480-198818-3

Matrix: Water Lab File ID: PA220613A20.d

Analysis Method: 537 (modified) Date Collected: 06/08/2022 11:15

Extraction Method: 3535 Date Extracted: 06/13/2022 08:55

Sample wt/vol: 294.7(mL) Date Analyzed: 06/13/2022 19:44

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 180744 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
375-22-4	Perfluorobutanoic acid (PFBA)	10		4.2	
2706-90-3	Perfluoropentanoic acid (PFPeA)	8.6		1.7	
307-24-4	Perfluorohexanoic acid (PFHxA)	15		1.7	
375-85-9	Perfluoroheptanoic acid (PFHpA)	8.1		1.7	
335-67-1	Perfluorooctanoic acid (PFOA)	22		1.7	
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.7	
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.4		1.7	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.6		1.7	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	13		1.7	
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.7	
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.2	
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5.3		4.2	
27619-97-2	6:2 FTS	ND		4.2	
39108-34-4	8:2 FTS	ND		1.7	

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-2B Lab Sample ID: 480-198818-3

Matrix: Water Lab File ID: PA220613A20.d

Analysis Method: 537 (modified) Date Collected: 06/08/2022 11:15

Extraction Method: 3535 Date Extracted: 06/13/2022 08:55

Sample wt/vol: 294.7(mL) Date Analyzed: 06/13/2022 19:44

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 180744 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	78		50-150
STL00992	13C4 PFBA	76		50-150
STL01893	13C5 PFPeA	97		50-150
STL00993	13C2 PFHxA	93		50-150
STL01892	13C4 PFHpA	96		50-150
STL00990	13C4 PFOA	100		50-150
STL00995	13C5 PFNA	96		50-150
STL00996	13C2 PFDA	99		50-150
STL00997	13C2 PFUnA	90		50-150
STL00998	13C2 PFDoA	80		50-150
STL02116	13C2 PFTeDA	88		50-150
STL02337	13C3 PFBS	83		50-150
STL00994	18O2 PFHxS	85		50-150
STL00991	13C4 PFOS	83		50-150
STL02118	d3-NMeFOSAA	112		50-150
STL02117	d5-NEtFOSAA	113		50-150
STL02279	M2-6:2 FTS	110		50-150
STL02280	M2-8:2 FTS	94		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d
Lims ID: 480-198818-C-3-A
Client ID: MW-2B
Sample Type: Client
Inject. Date: 13-Jun-2022 19:44:19 ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-198818-C-3-A
Misc. Info.: 200-0051257-020 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 14-Jun-2022 14:35:47 Calib Date: 05-May-2022 15:54:29
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1636

First Level Reviewer: khanphomeea Date: 14-Jun-2022 11:53:07
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.085	2.085	0.0	0.599	1450053	0.9482		75.9	3877	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.093	-0.008	1.000	324135	0.2961			16.1	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.400	0.0	0.689	1417161	1.21		97.0	609	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.400	2.400	0.0	1.000	294214	0.2546			1.7	
D 47 13C3 PFBS										M
301.90 > 80.00	2.413	2.427	-0.014	0.693	1641902	0.9686		83.3	9923	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.413	2.427	-0.014	1.000	108176	0.0703	Target=2.15		2.6	M
298.90 > 99.00	2.413	2.427	-0.014	1.000	48608		2.23(1.07-3.22)		3.7	
D 7 13C2 PFHxA										M
315.00 > 270.00	2.749	2.762	-0.013	0.790	1386056	1.16		92.8	1255	M
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.749	2.762	-0.013	1.000	541520	0.4525	Target=12.59		16.1	M
313.00 > 119.00	2.749	2.762	-0.013	1.000	41916		12.92(6.29-18.88)		28.2	M
D 11 18O2 PFHxS										M
403.00 > 84.00	3.121	3.121	0.0	0.896	1332653	1.01		85.0	2074	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.121	3.121	0.0	1.000	132909	0.1067	Target=3.53		12.2	M
399.00 > 99.00	3.121	3.121	0.0	1.000	45178		2.94(1.76-5.29)		18.3	M
D 9 13C4 PFHpA										M
367.00 > 322.00	3.121	3.132	-0.011	0.896	1543803	1.20		95.8	2306	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.132	3.132	0.0	1.004	297505	0.2384	Target=3.75		11.7	M
363.00 > 169.00	3.132	3.132	0.0	1.004	82371		3.61(1.87-5.62)		43.3	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.465	3.474	-0.009	0.914	11598	0.0111	Target=4.90		5.0	
449.00 > 99.00	3.465	3.474	-0.009	0.914	1882		6.16(2.45-7.35)		1.8	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.465	3.474	-0.009	0.995	281352	1.30		110	181	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.465	3.474	-0.009	1.000	5205	-0.0131			3.7	M
* 62 13C2 PFOA										M
415.00 > 370.00	3.482	3.482	0.0		1800792	1.25			3132	M
D 14 13C4 PFOA										M
417.00 > 372.00	3.474	3.482	-0.008	0.998	1688641	1.25		99.6	2820	M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.474	3.482	-0.008	1.000	979155	0.6472	Target=2.68		48.0	M
413.00 > 169.00	3.474	3.482	-0.008	1.000	407945		2.40(1.34-4.02)		313	M
D 18 13C4 PFOS										M
503.00 > 80.00	3.792	3.802	-0.010	1.089	1036375	1.00		83.3	936	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.792	3.802	-0.010	1.000	357313	0.3858	Target=4.47		147	M
499.00 > 99.00	3.792	3.802	-0.010	1.000	127714		2.80(2.24-6.71)		9.2	M
D 19 13C5 PFNA										M
468.00 > 423.00	3.812	3.822	-0.010	1.095	1771167	1.20		96.1	2467	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.822	3.822	0.0	1.003	9028	0.006588	Target=7.74		1.4	M
463.00 > 169.00	3.812	3.822	-0.010	1.000	1562		5.78(3.87-11.61)		3.6	M
D 23 13C2 PFDA										M
515.00 > 470.00	4.115	4.127	-0.012	1.182	1752298	1.23		98.8	2049	M
24 Perfluorodecanoic acid										RM
513.00 > 469.00	4.127	4.127	0.0	1.003	7141	0.004781	Target=9.31		1.5	RM
513.00 > 169.00	4.127	4.127	0.0	1.003	71		100.58(4.65-13.96)		0.4	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.127	4.127	0.0	1.000	223	0.000818			2.2	M
D 26 M2-8:2 FTS										M
529.00 > 81.00	4.127	4.127	0.0	1.185	293321	1.13		94.3	350	M
D 21 13C8 FOSA										M
506.00 > 78.00	4.184	4.195	-0.011	1.202	1527489	0.9784		78.3	2020	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.184	4.195	-0.011	1.000	43671	0.0352			37.7	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.261	4.261	0.0	1.224	263382	1.40		112	1406	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.261	4.273	-0.012	1.000	1143	0.005965			3.1	M
31 Perfluoroundecanoic acid										M
563.00 > 169.00	4.364	4.387	-0.023	0.000	182		0.00(0.00-0.00)		1.4	M
D 30 13C2 PFUnA										M
565.00 > 520.00	4.387	4.387	0.0	1.260	1279545	1.12		89.8	1944	M
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.398	4.398	0.0	1.263	259221	1.41		113	1181	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.398	4.410	-0.012	1.000	30195	0.1552			229	M
D 36 13C2 PFDoA										M
615.00 > 570.00	4.622	4.633	-0.011	1.327	1214876	1.00		79.9	1907	M
42 Perfluorotetradecanoic acid										RM
713.00 > 169.00	5.032	5.032	0.0	0.998	280	0.002077	Target=0.96		4.4	RM
713.00 > 219.00	5.022	5.032	-0.010	0.996	136		2.06(0.48-1.44)		3.4	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.042	5.042	0.0	1.448	1090524	1.10		87.7	2026	M

QC Flag Legend

Processing Flags
R - Failed Signal Ratio Test
Review Flags
M - Manually Integrated

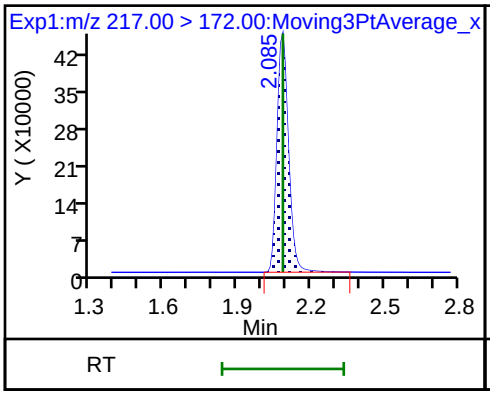
Report Date: 14-Jun-2022 14:36:04 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Burlington

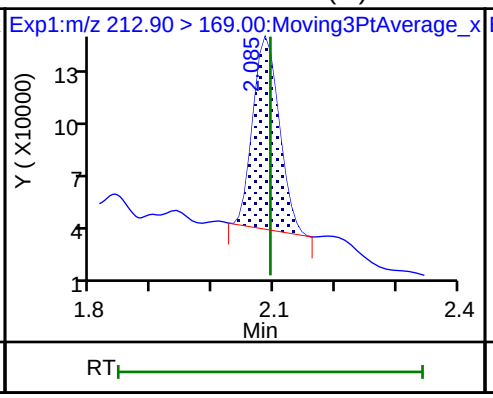
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d

Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		

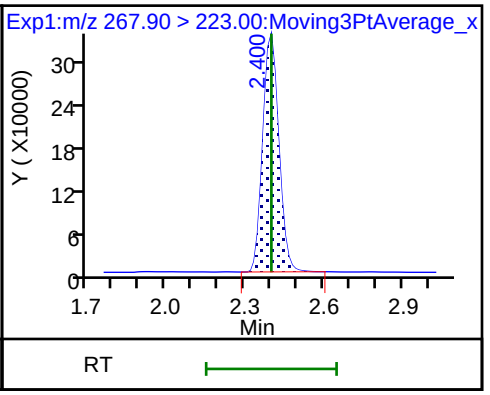
D 1 13C4 PFBA



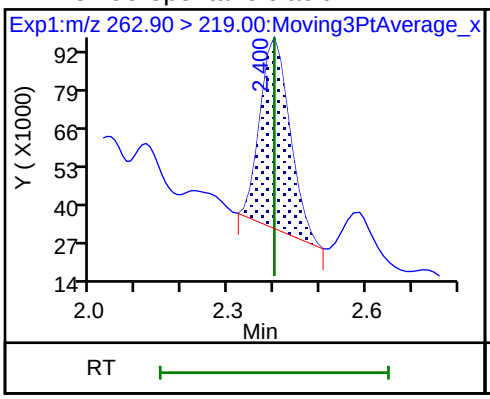
2 Perfluorobutanoic acid (M)



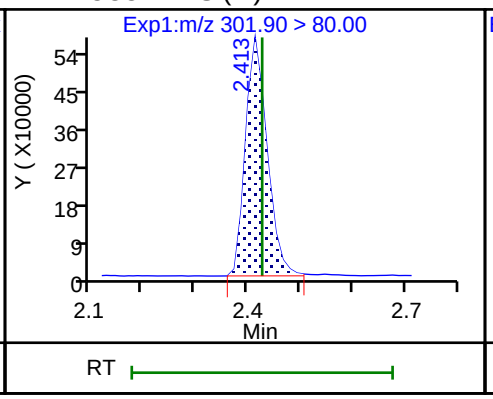
D 3 13C5 PFPeA



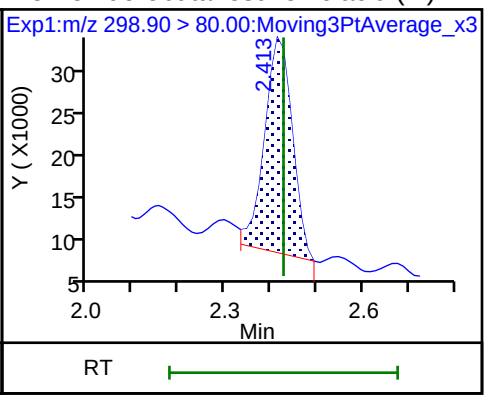
4 Perfluoropentanoic acid



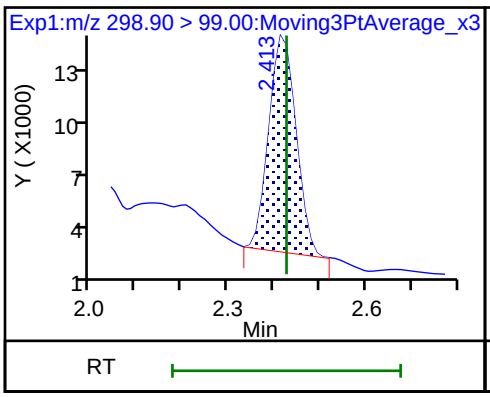
D 47 13C3 PFBS (M)



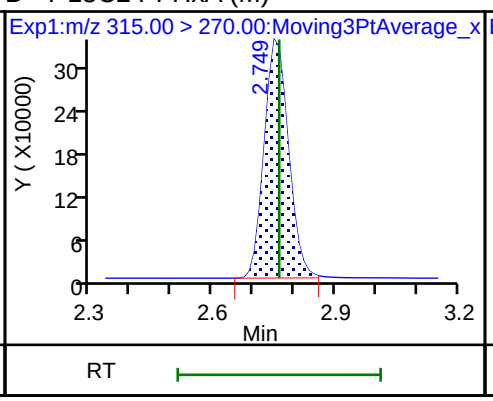
5 Perfluorobutanesulfonic acid (M)



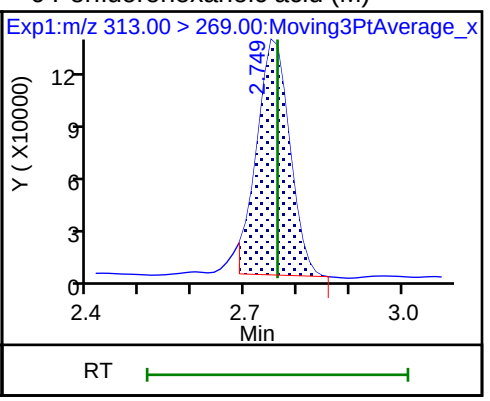
5 Perfluorobutanesulfonic acid



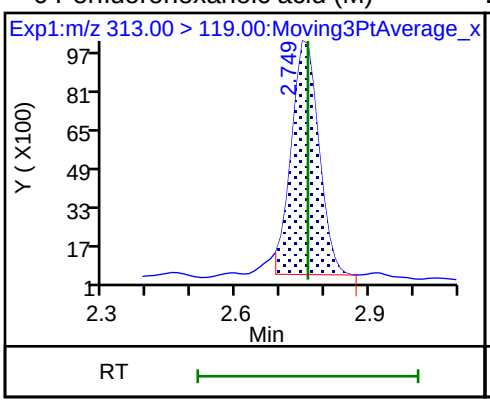
D 7 13C2 PFHxA (M)



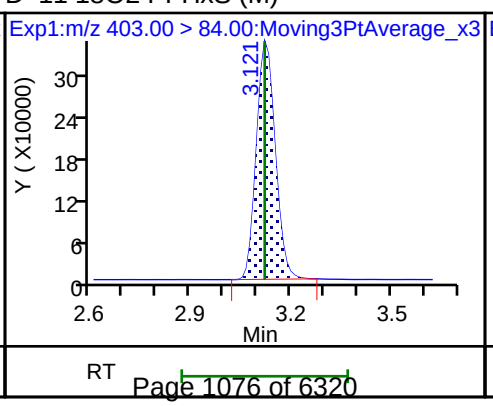
6 Perfluorohexanoic acid (M)



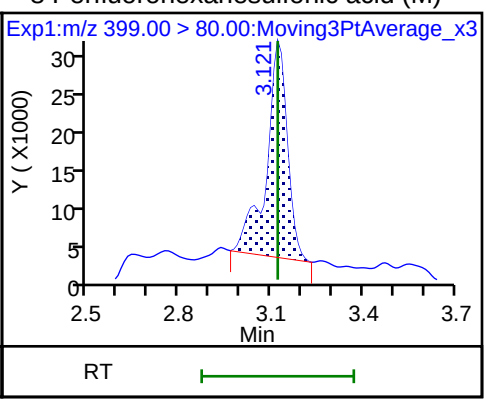
6 Perfluorohexanoic acid (M)



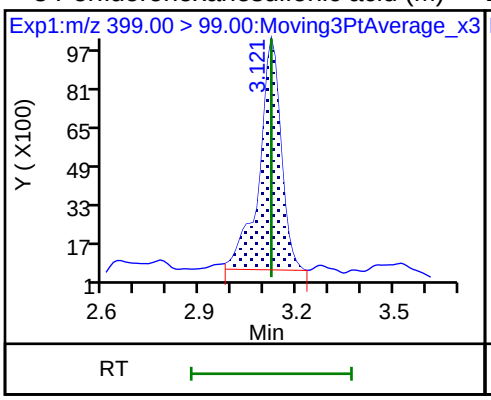
D 11 18O2 PFHxS (M)



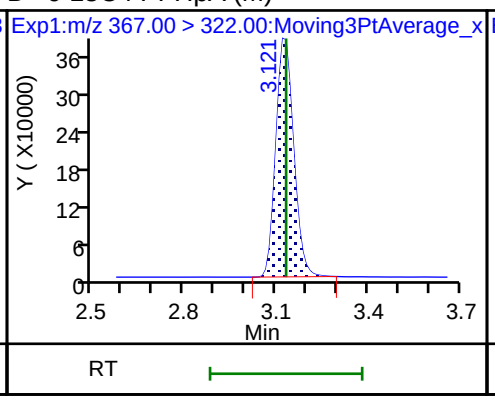
8 Perfluorohexanesulfonic acid (M)



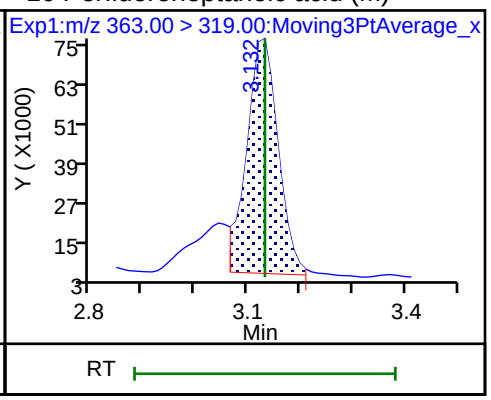
8 Perfluorohexanesulfonic acid (M)



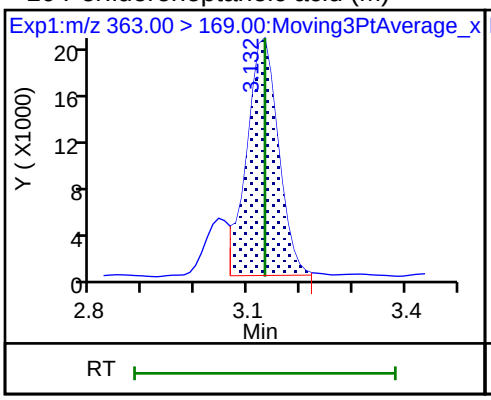
D 9 13C4 PFHpA (M)



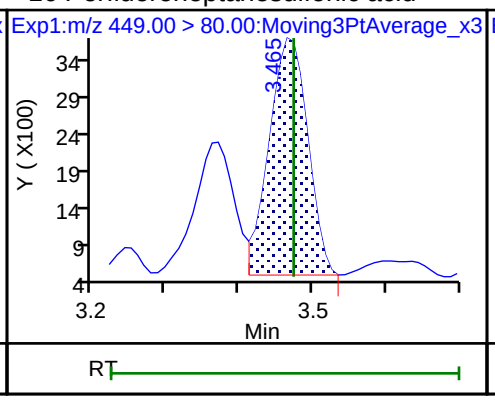
10 Perfluoroheptanoic acid (M)



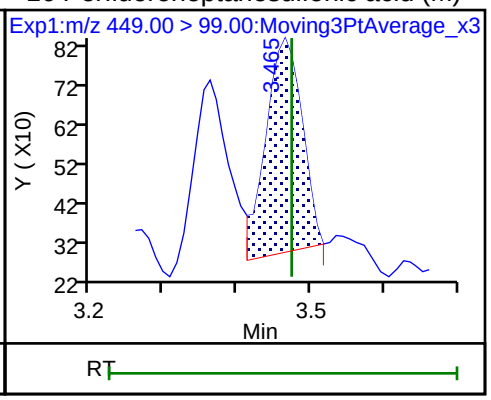
10 Perfluoroheptanoic acid (M)



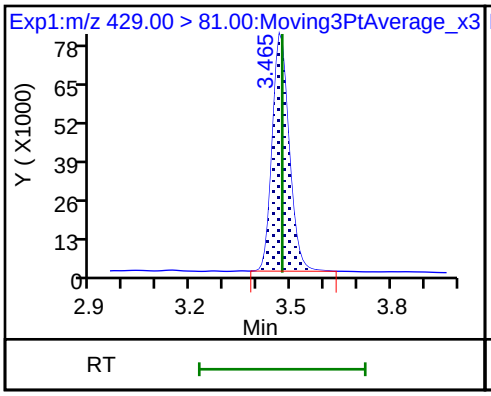
16 Perfluoroheptanesulfonic acid



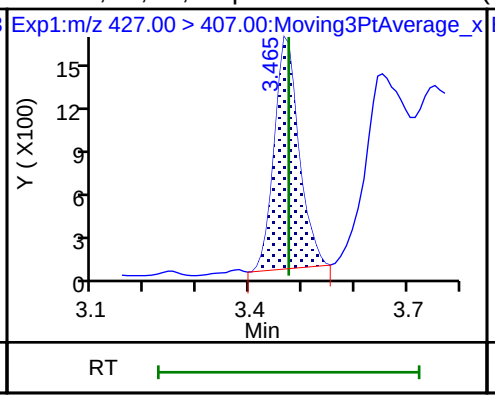
16 Perfluoroheptanesulfonic acid (M)



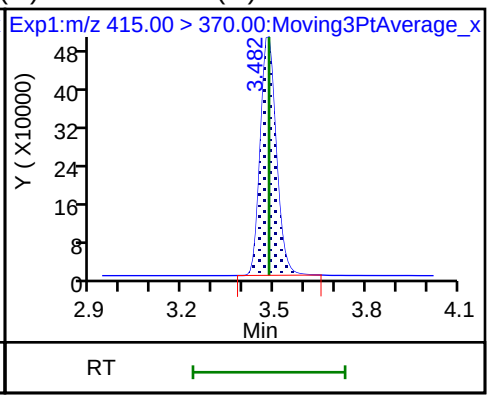
D 12 M2-6:2 FTS



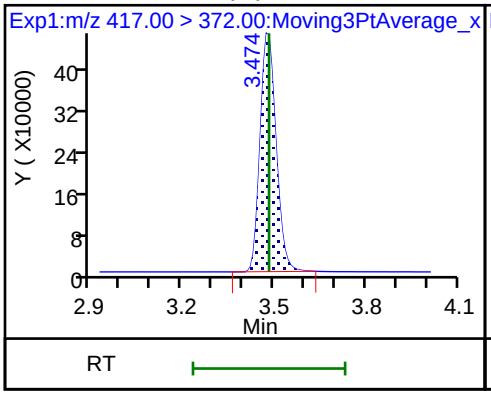
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



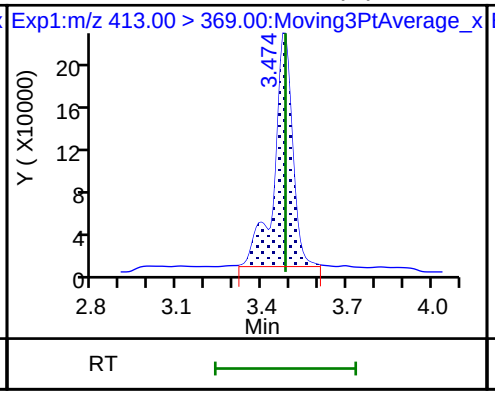
M2 13C2 PFOA (M)



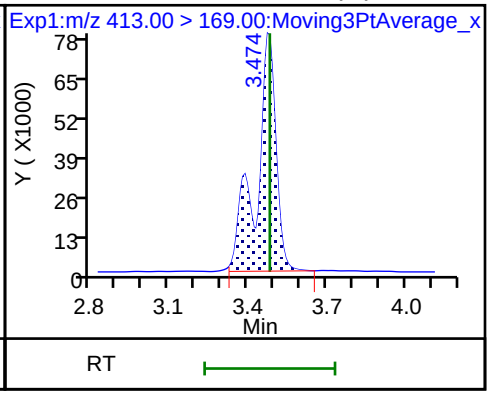
D 14 13C4 PFOA (M)



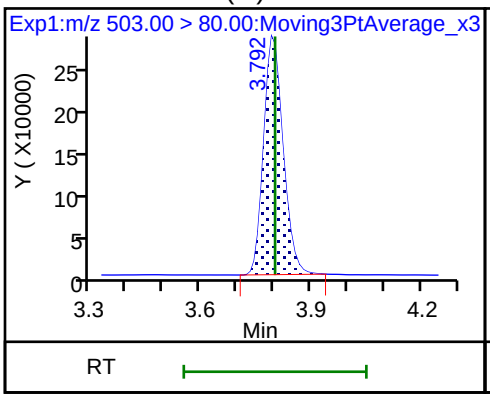
15 Perfluorooctanoic acid (M)



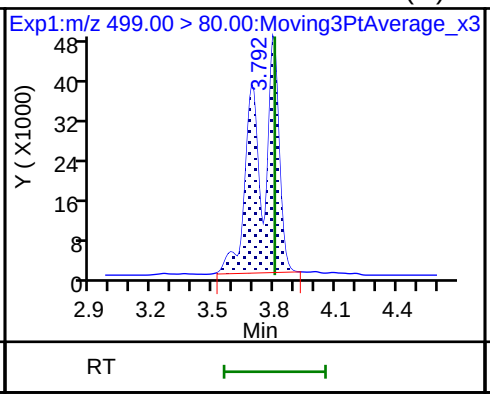
15 Perfluorooctanoic acid (M)



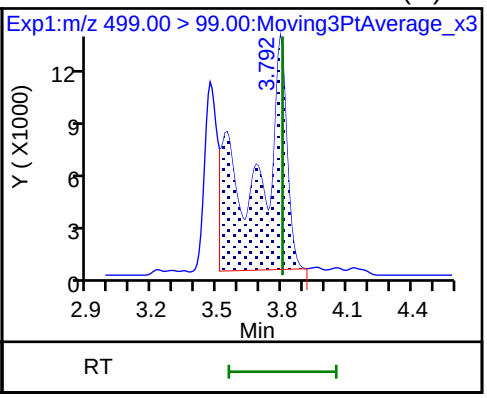
D 18 13C4 PFOS (M)



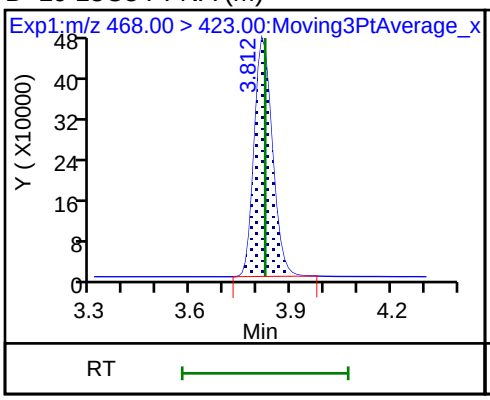
17 Perfluorooctanesulfonic acid (M)



17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA (M)



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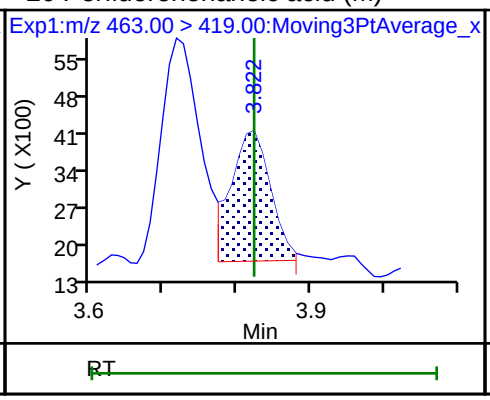
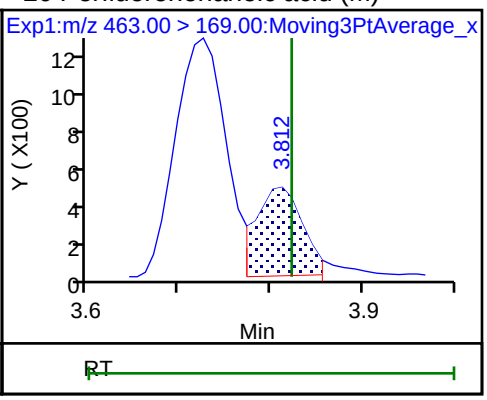
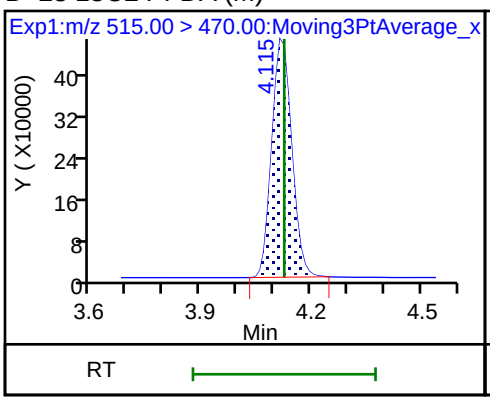


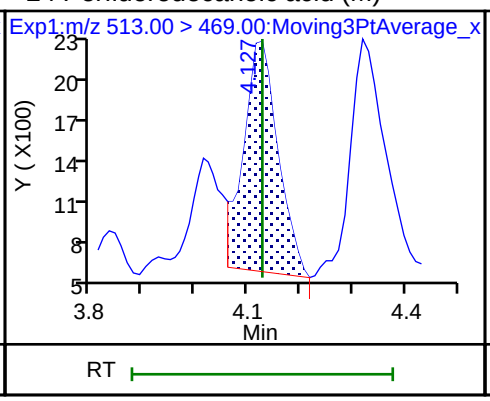
20 Perfluorononanoic acid (M)



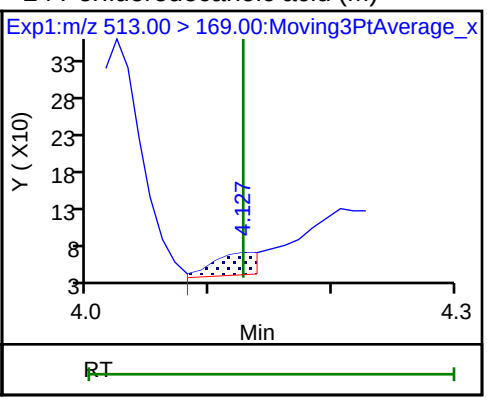
D 23 13C2 PFDA (M)



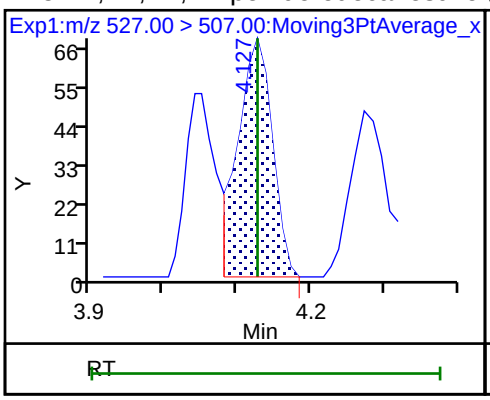
24 Perfluorodecanoic acid (M)



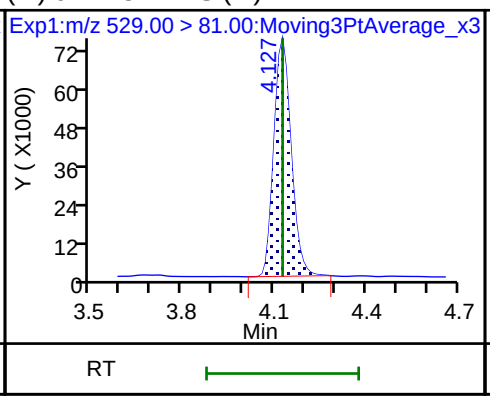
24 Perfluorodecanoic acid (M)



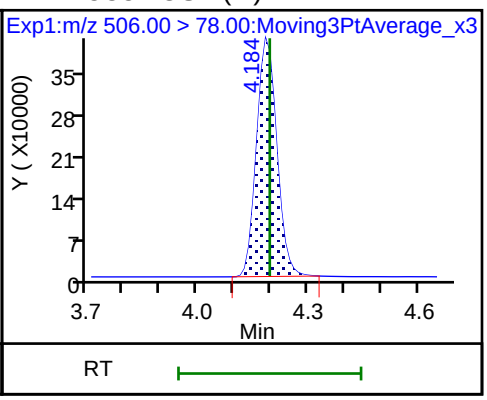
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



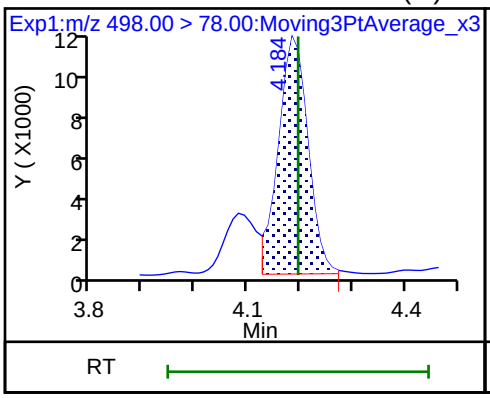
D 26 M2-8:2 FTS (M)



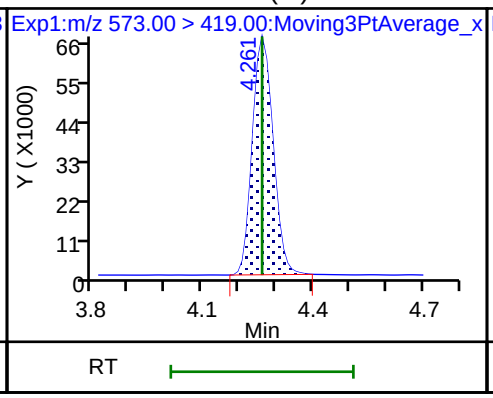
D 21 13C8 FOSA (M)



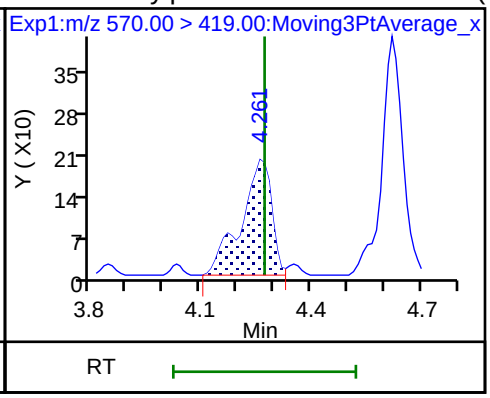
22 Perfluorooctanesulfonamide (M)



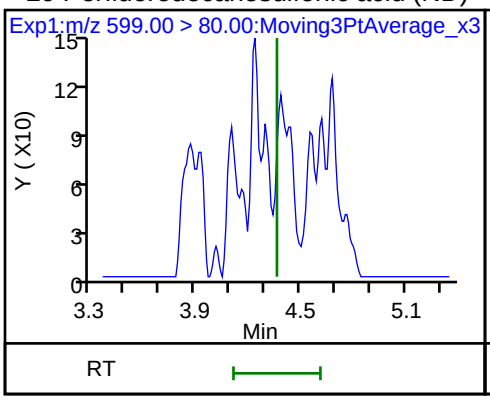
D 27 d3-NMeFOSAA (M)



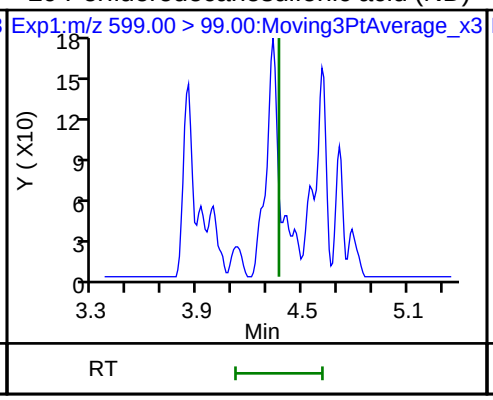
28 N-methylperfluorooctanesulfonami (M)



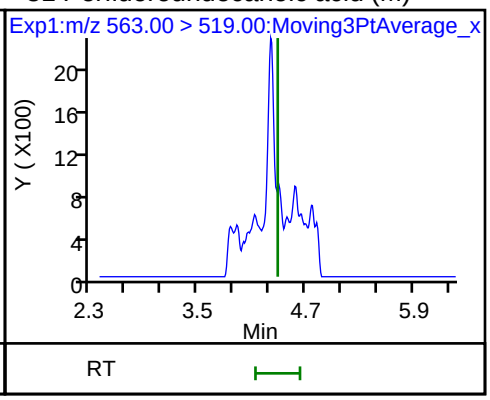
29 Perfluorodecanesulfonic acid (ND)



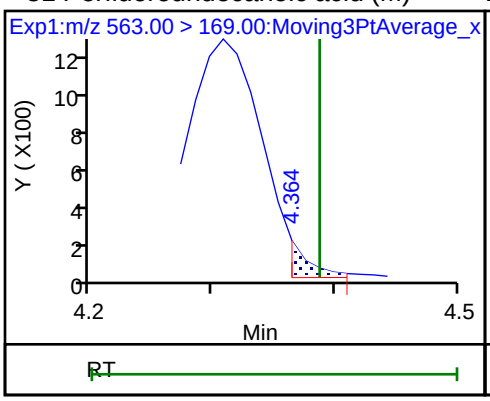
29 Perfluorodecanesulfonic acid (ND)



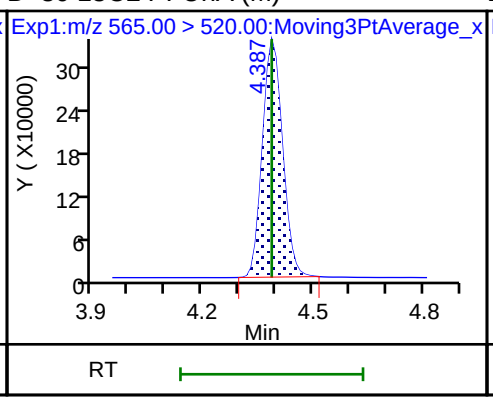
31 Perfluoroundecanoic acid (M)



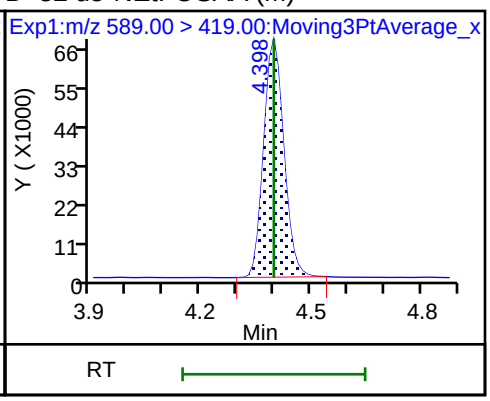
31 Perfluoroundecanoic acid (M)



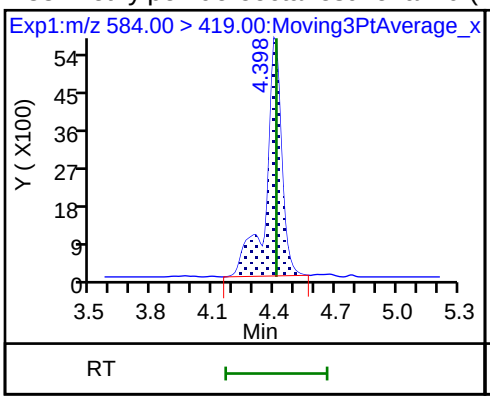
D 30 13C2 PFUnA (M)



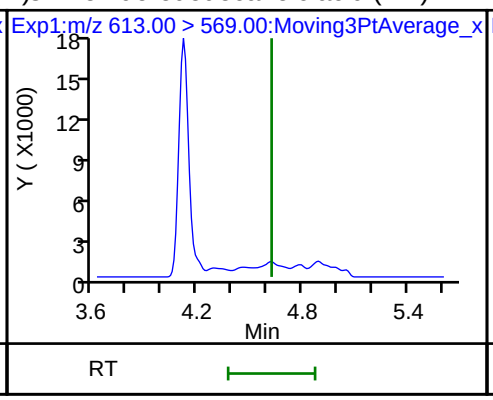
D 32 d5-NEtFOSAA (M)



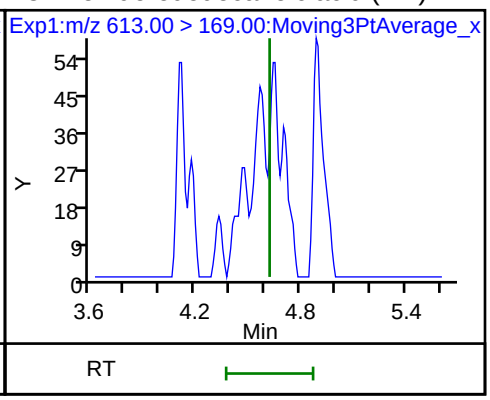
33 N-ethylperfluorooctanesulfonamid (M)



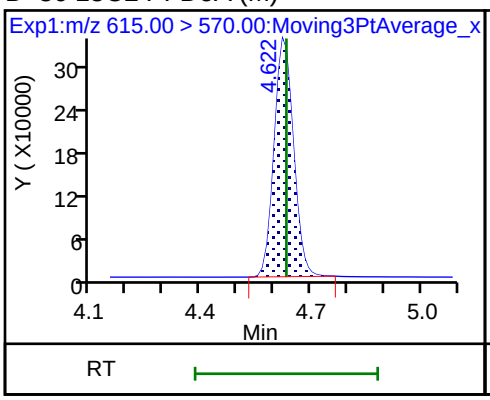
37 Perfluorododecanoic acid (ND)



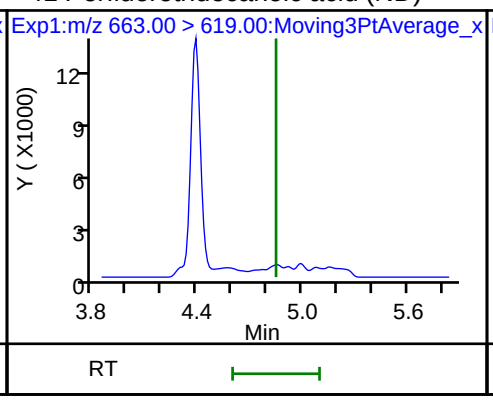
37 Perfluorododecanoic acid (ND)



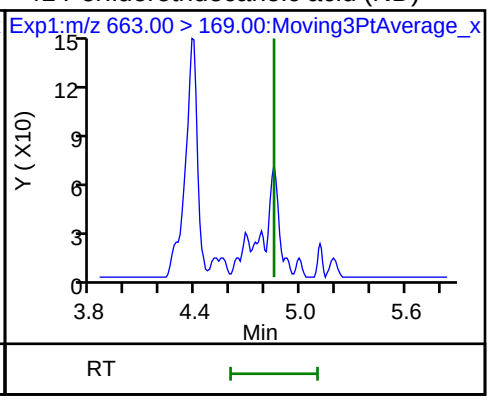
D 36 13C2 PFDoA (M)



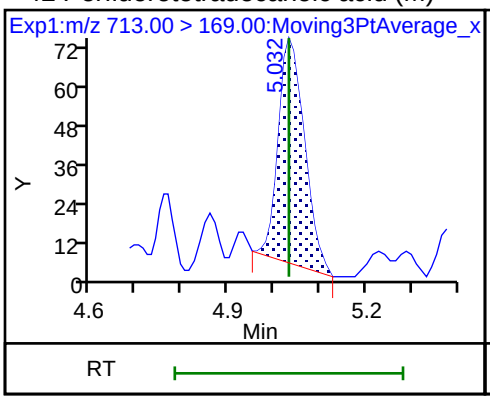
41 Perfluorotridecanoic acid (ND)



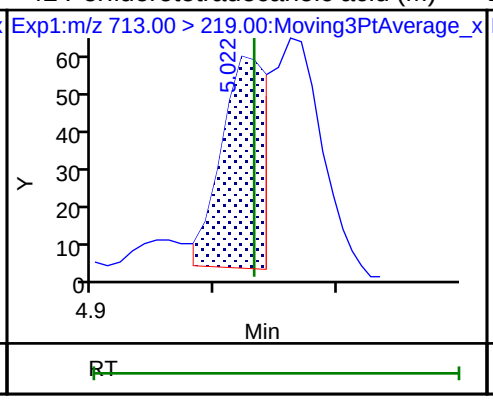
41 Perfluorotridecanoic acid (ND)



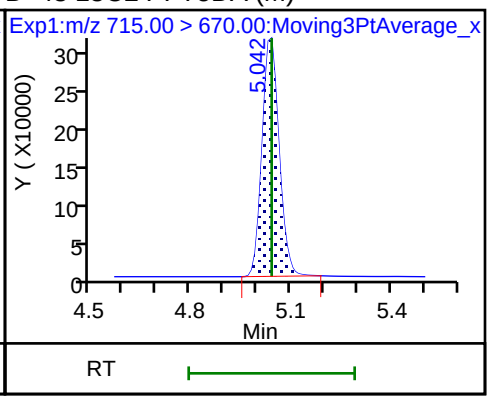
42 Perfluorotetradecanoic acid (M)



42 Perfluorotetradecanoic acid (M)



D 43 13C2 PFTeDA (M)



Eurofins Burlington

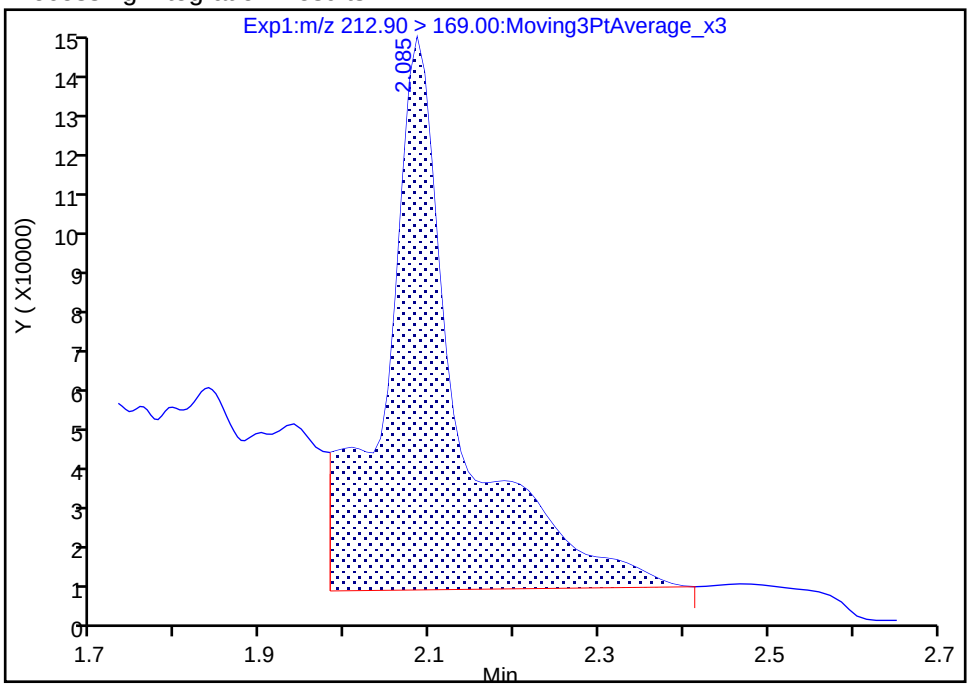
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

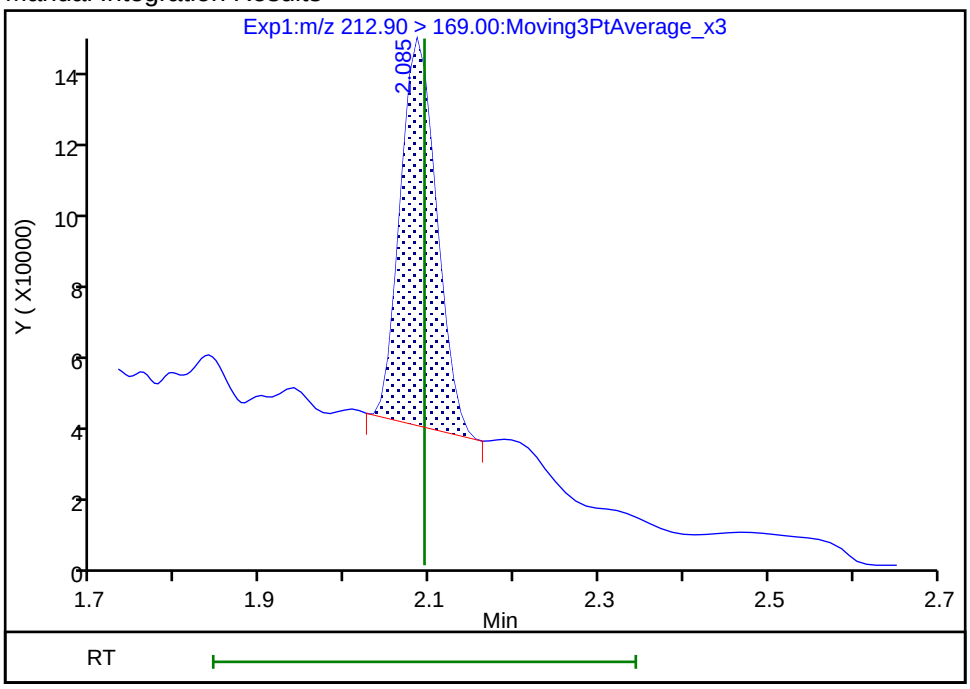
Processing Integration Results

RT: 2.08
Area: 856119
Amount: 0.782037
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 324135
Amount: 0.296087
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:49:06
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

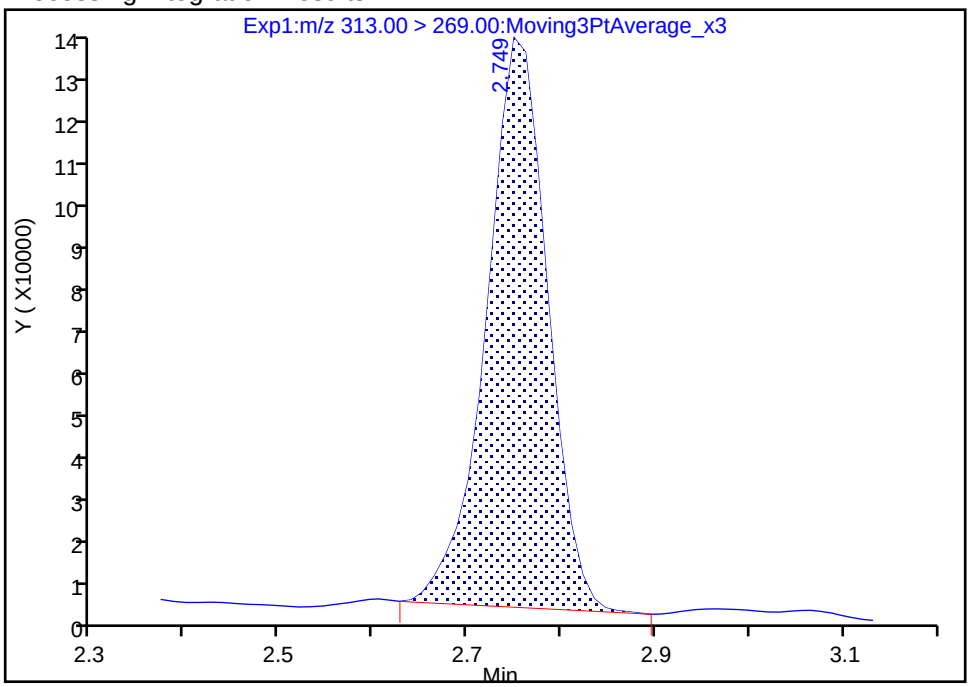
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

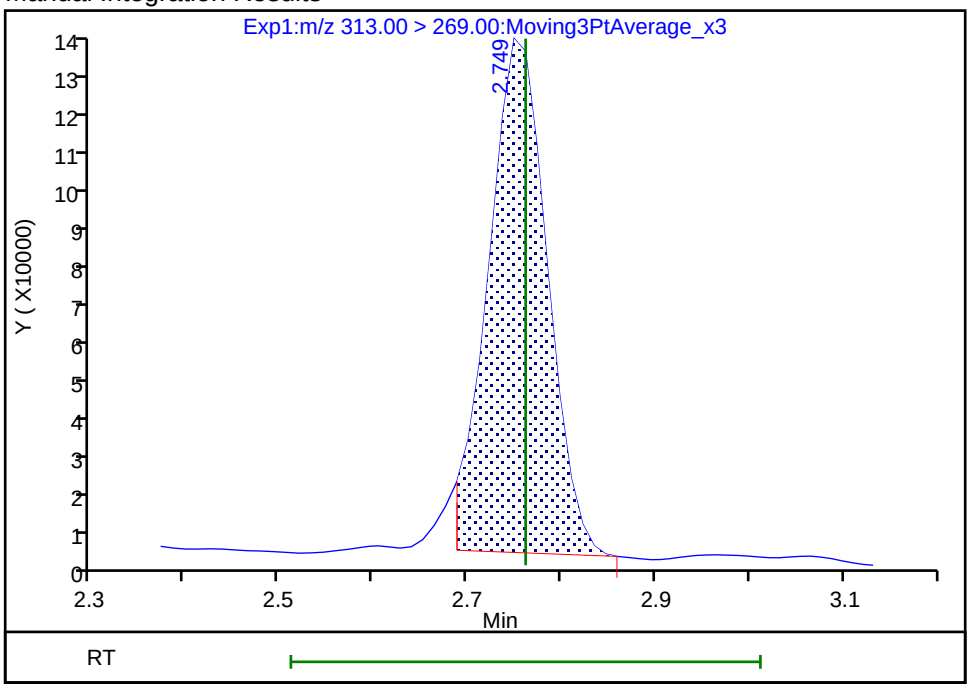
Processing Integration Results

RT: 2.75
Area: 564881
Amount: 0.470487
Amount Units: ng/ml



Manual Integration Results

RT: 2.75
Area: 541520
Amount: 0.452460
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:49:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

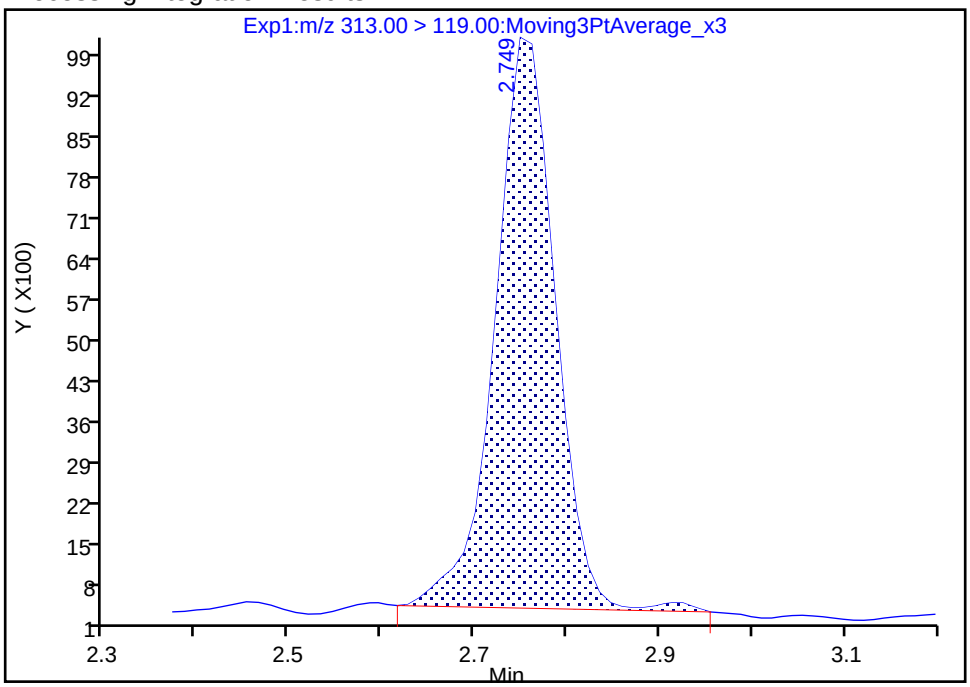
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

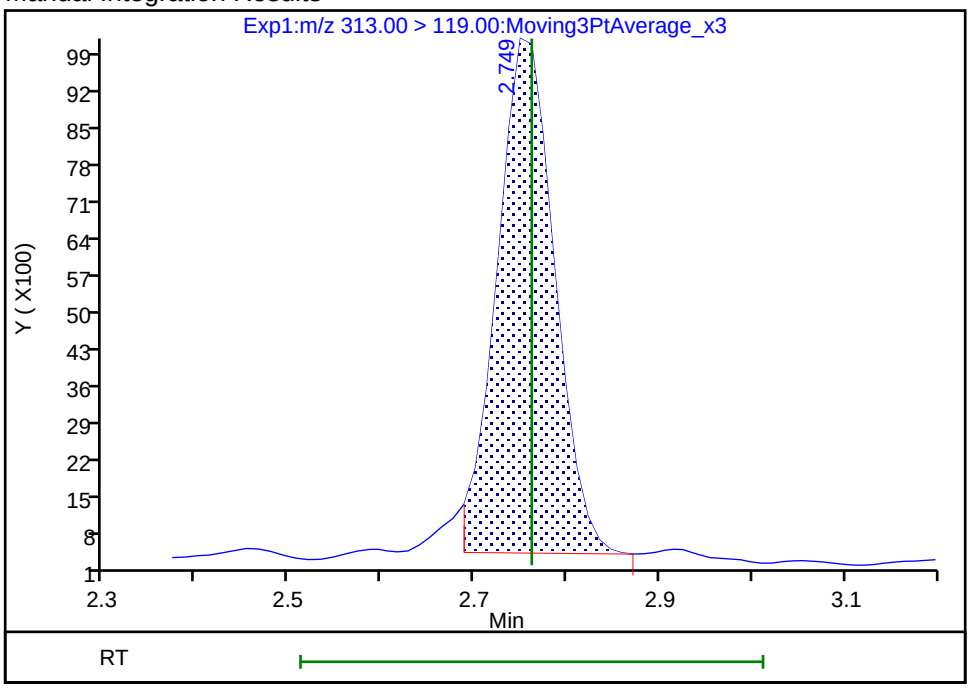
Processing Integration Results

RT: 2.75
Area: 44132
Amount: 0.470487
Amount Units: ng/ml



Manual Integration Results

RT: 2.75
Area: 41916
Amount: 0.452460
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:49:43

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

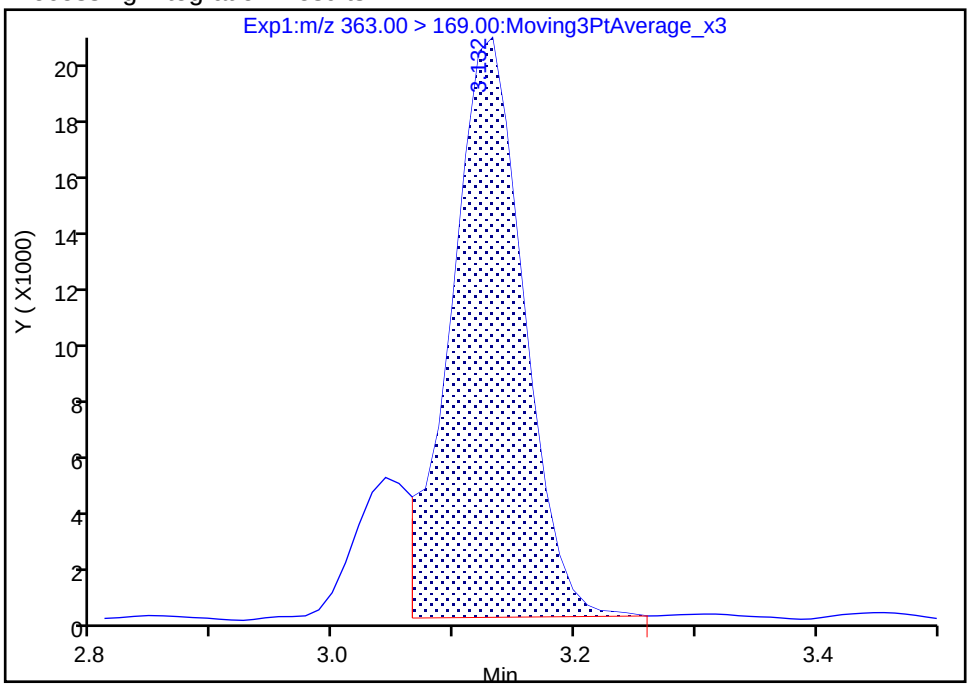
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

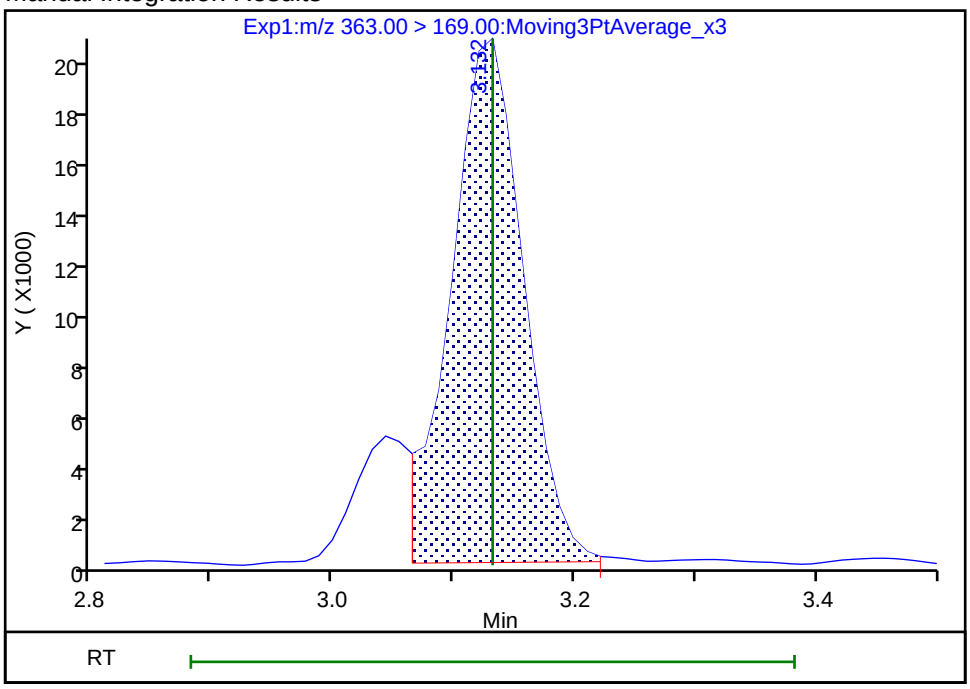
Processing Integration Results

RT: 3.13
Area: 82617
Amount: 0.239730
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 82371
Amount: 0.238369
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:50:21

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

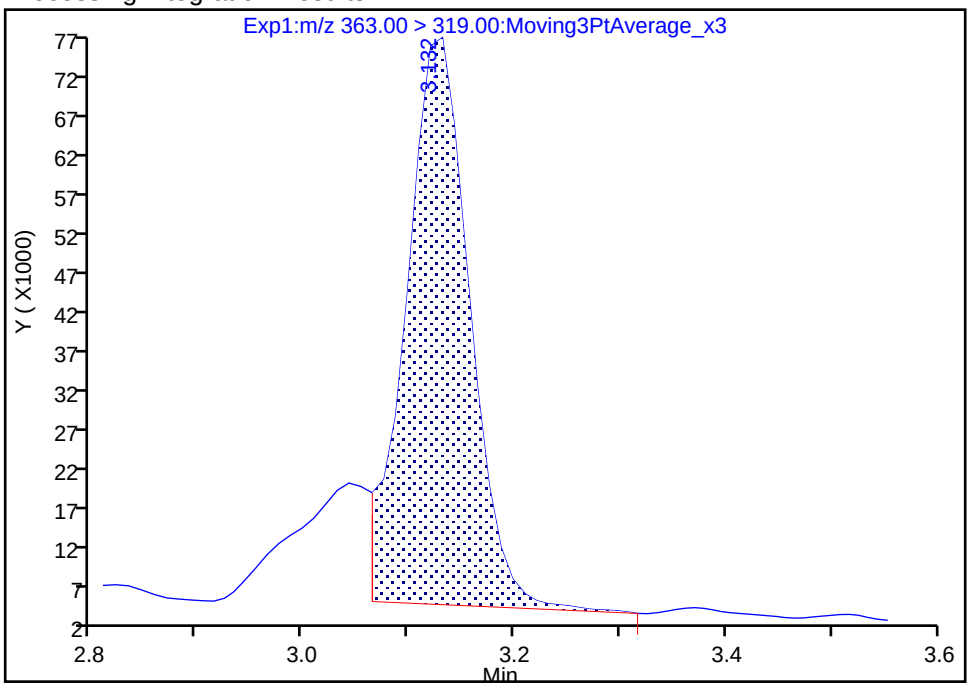
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

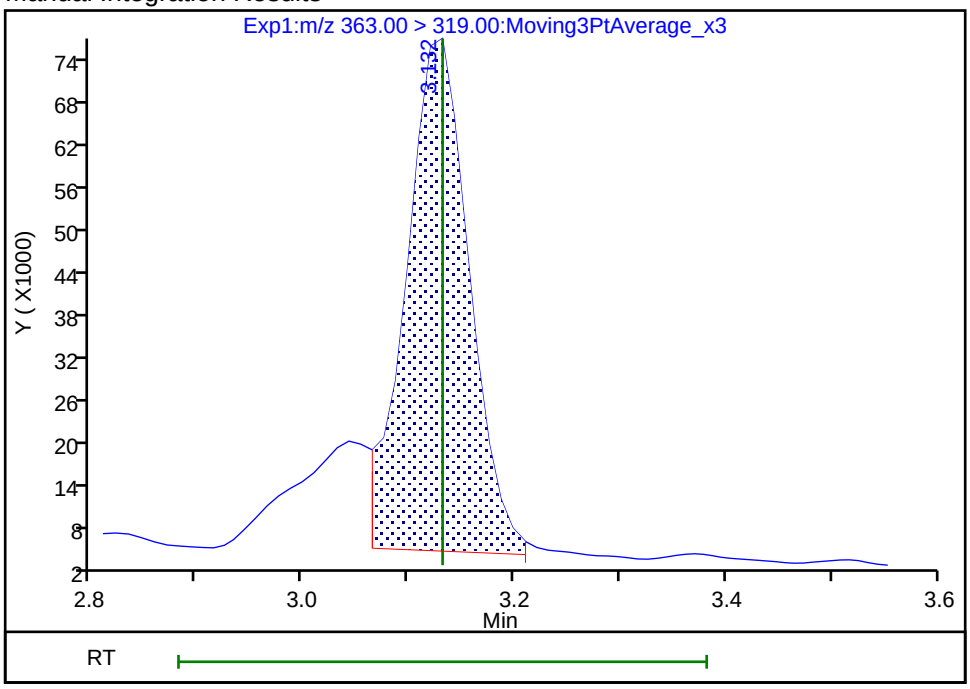
Processing Integration Results

RT: 3.13
Area: 300670
Amount: 0.239730
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 297505
Amount: 0.238369
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:50:23

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

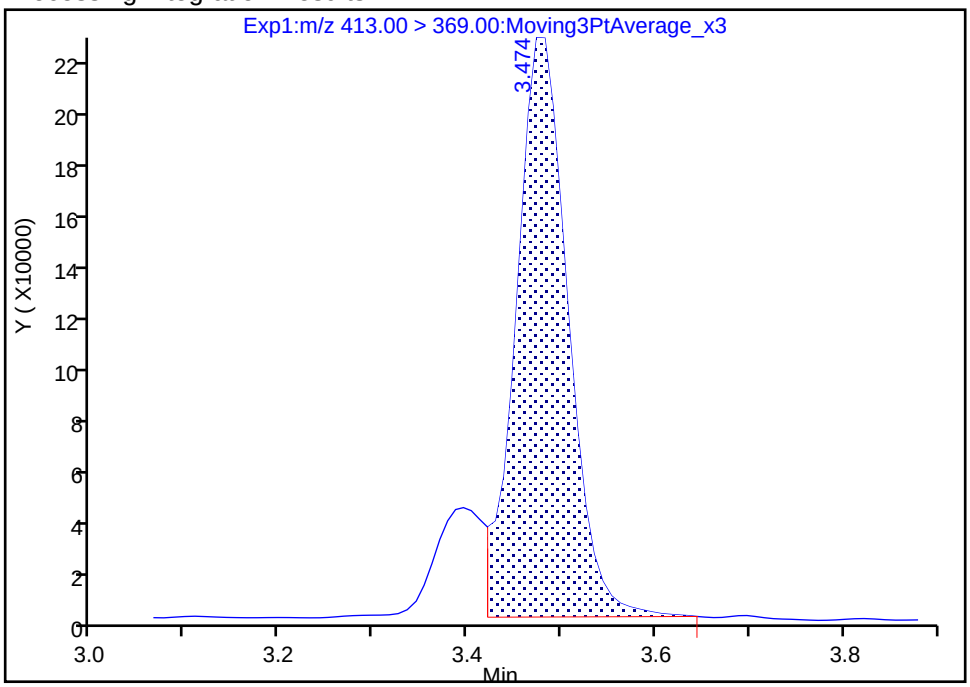
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

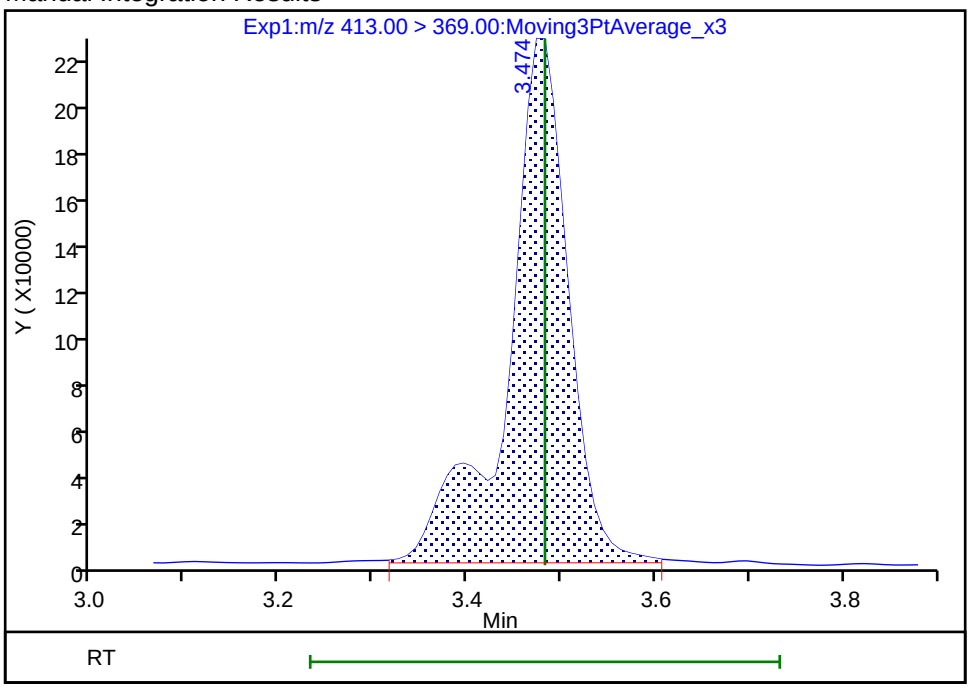
Processing Integration Results

RT: 3.47
Area: 831423
Amount: 0.546681
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 979155
Amount: 0.647181
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:50:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

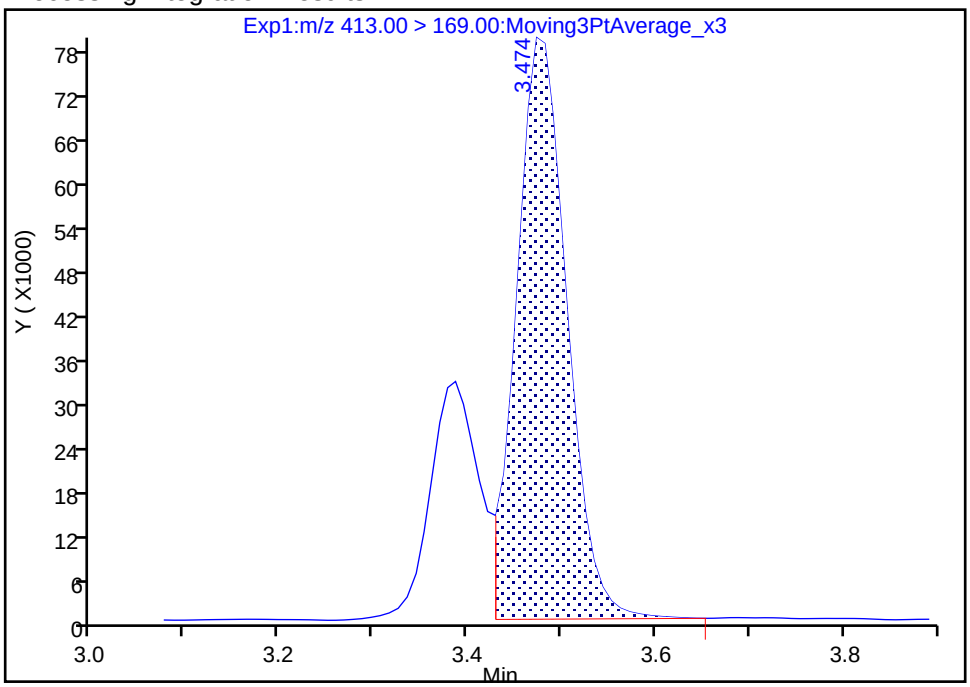
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

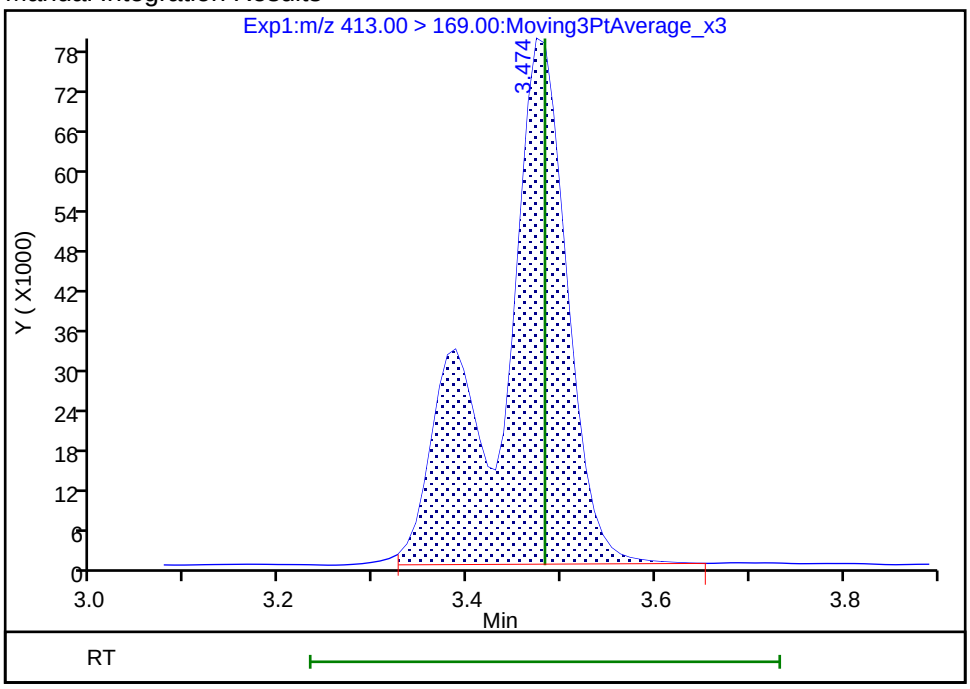
Processing Integration Results

RT: 3.47
Area: 292382
Amount: 0.546681
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 407945
Amount: 0.647181
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:04:42

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

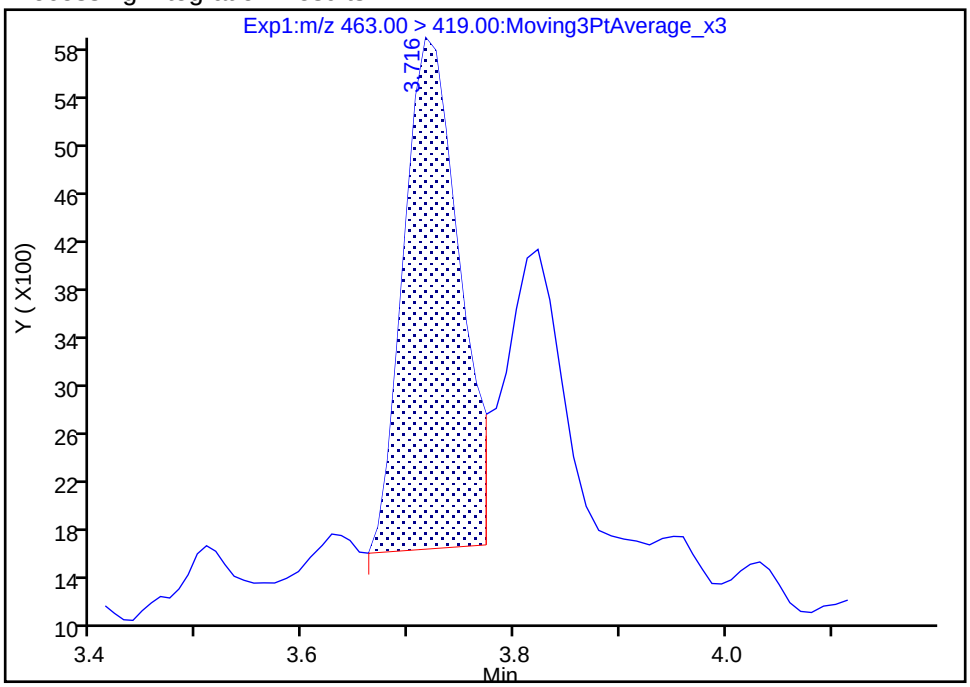
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

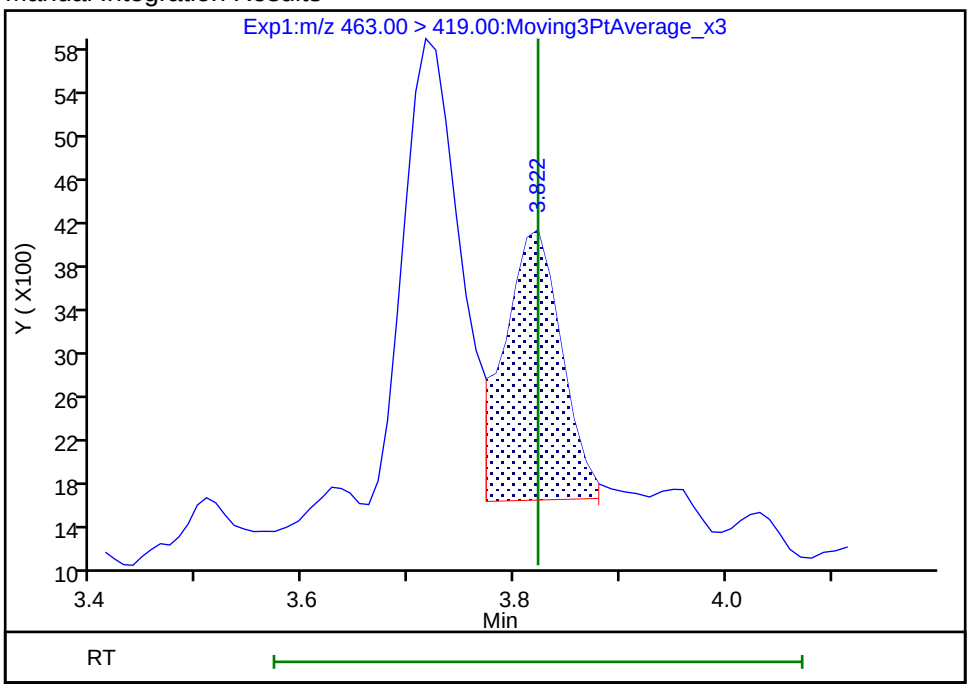
Processing Integration Results

RT: 3.72
Area: 15095
Amount: 0.010956
Amount Units: ng/ml



Manual Integration Results

RT: 3.82
Area: 9028
Amount: 0.006588
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:52:03

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

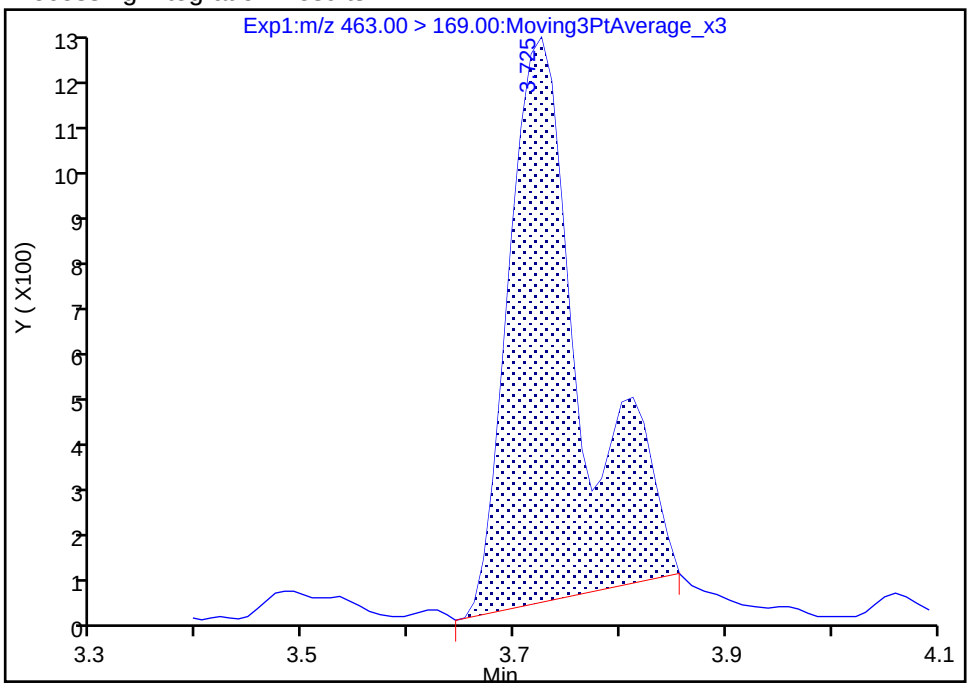
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

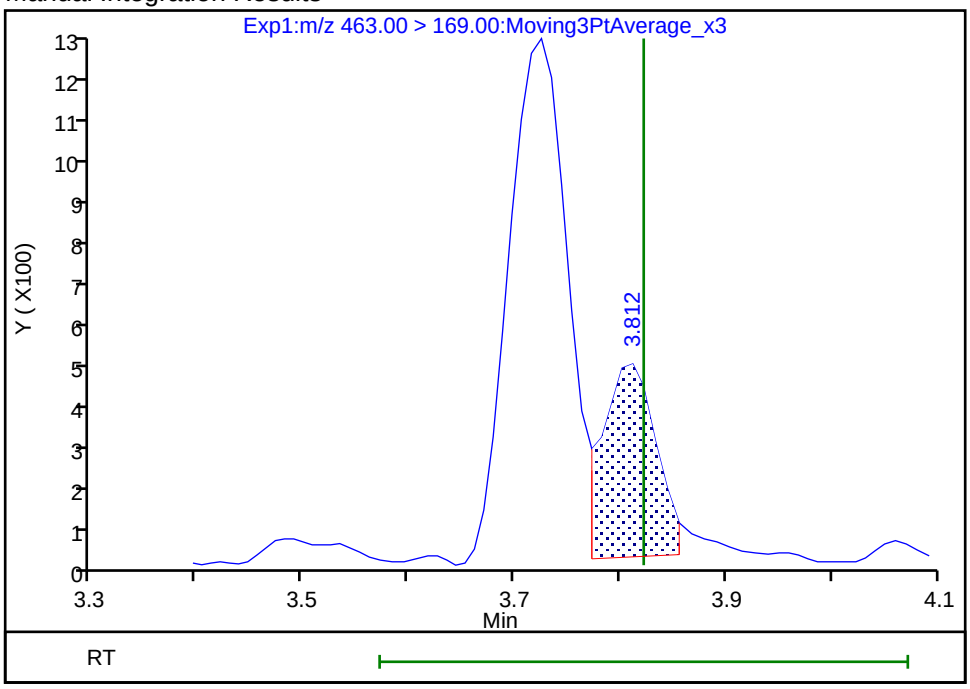
Processing Integration Results

RT: 3.73
Area: 5799
Amount: 0.010956
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 1562
Amount: 0.006588
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:52:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

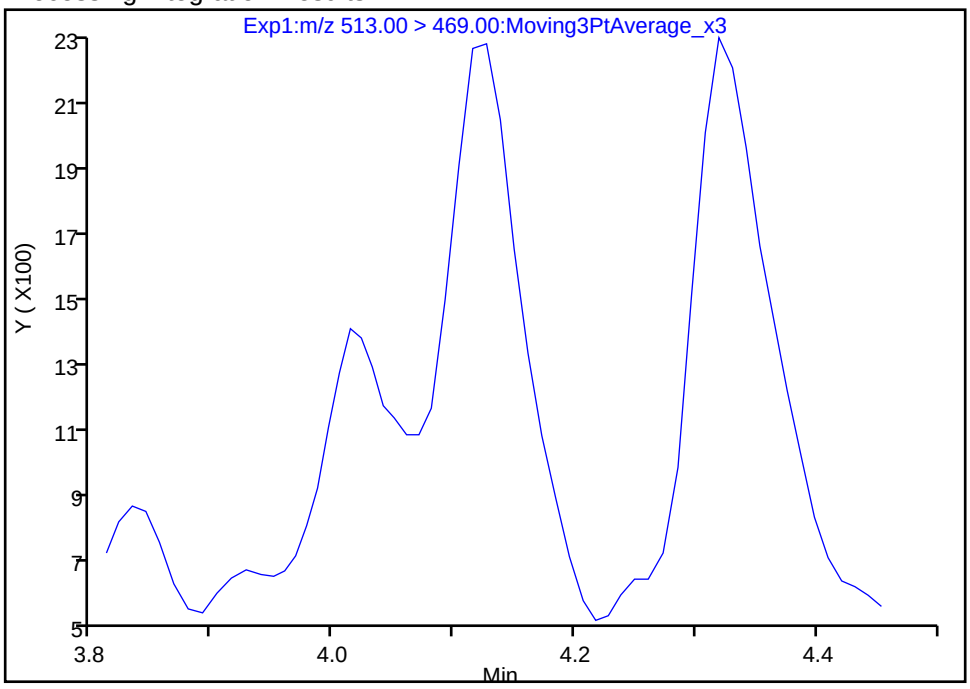
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

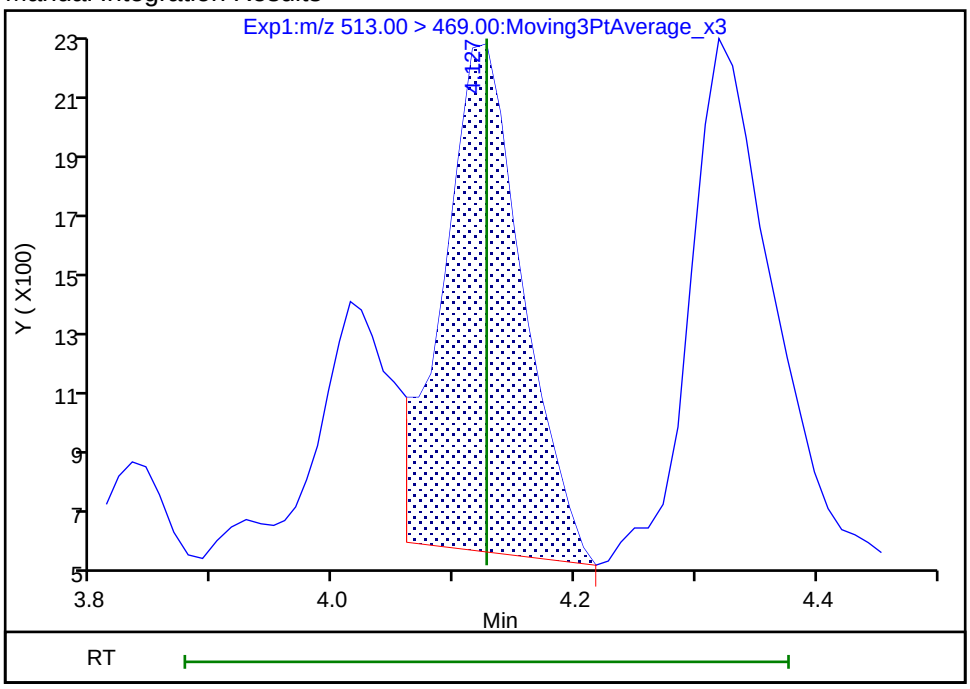
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.13
Area: 7141
Amount: 0.004781
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:05:31
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Burlington

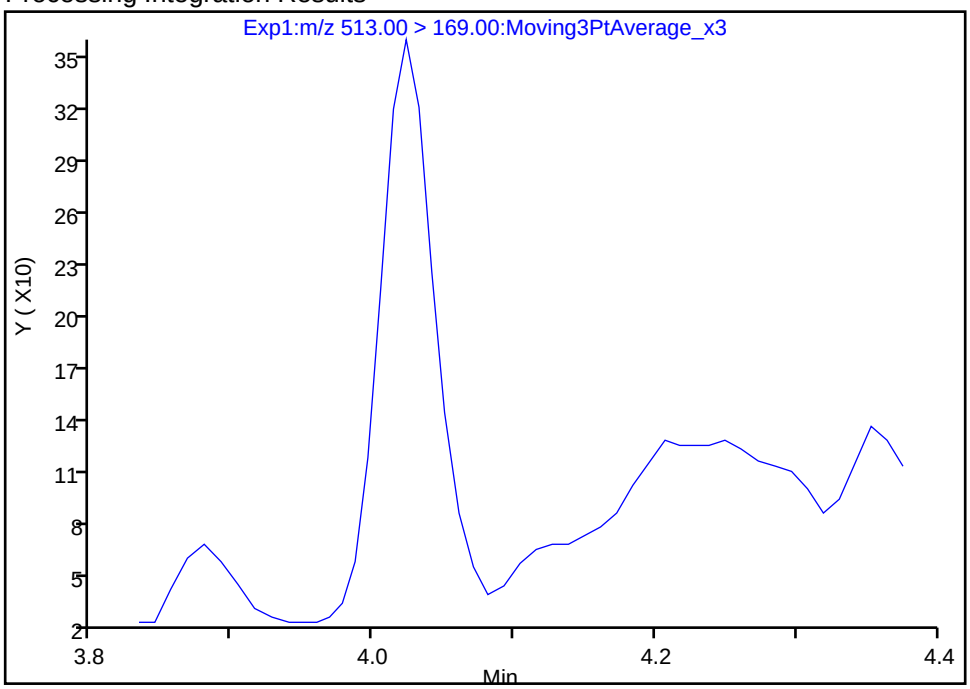
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

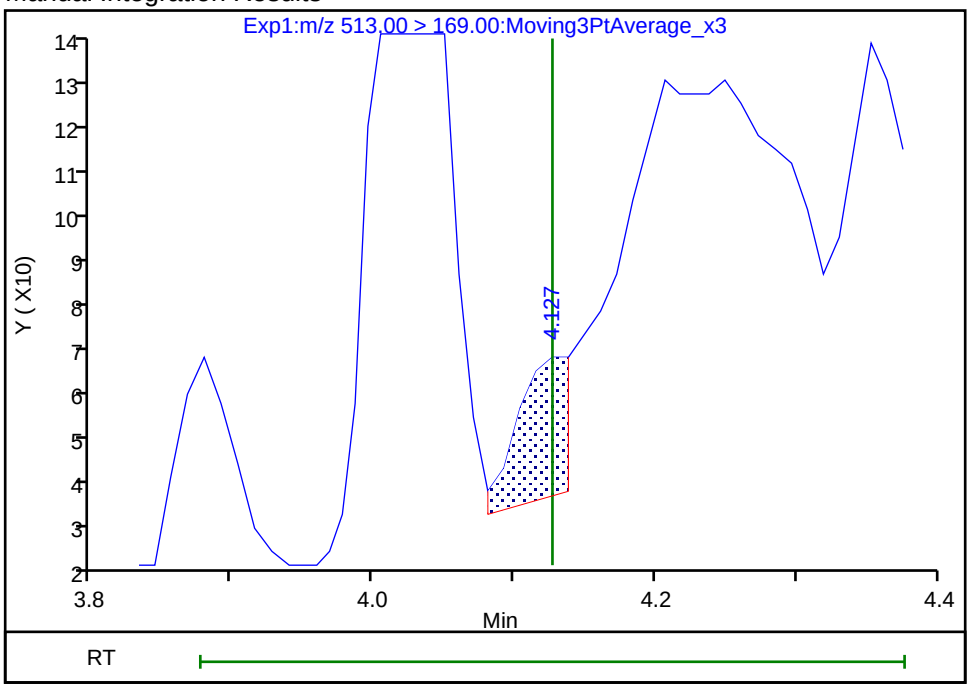
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.13
Area: 71
Amount: 0.004781
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:05:40
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Burlington

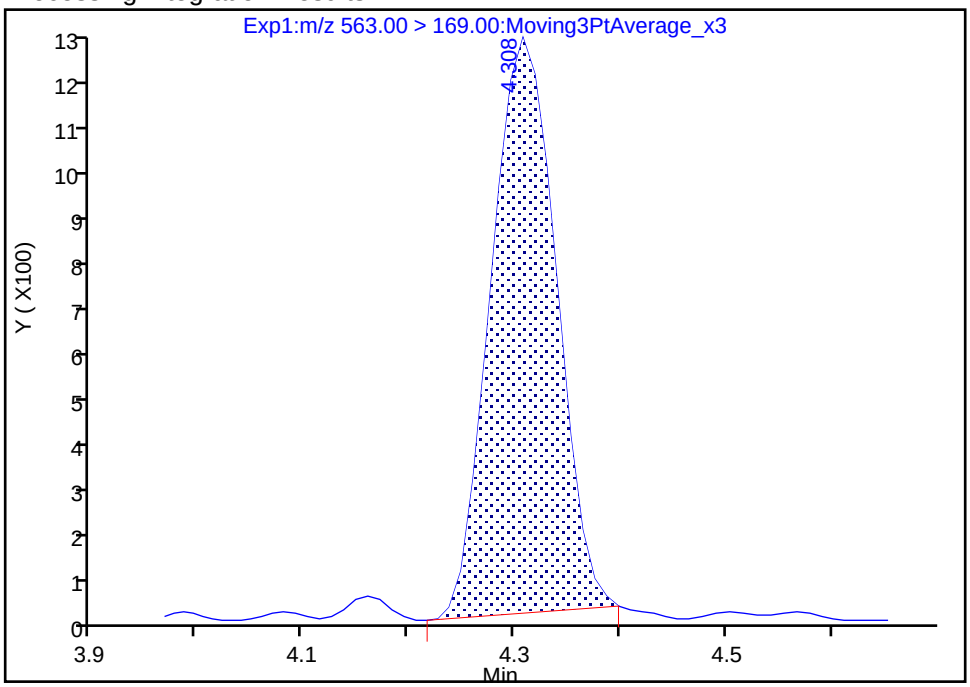
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

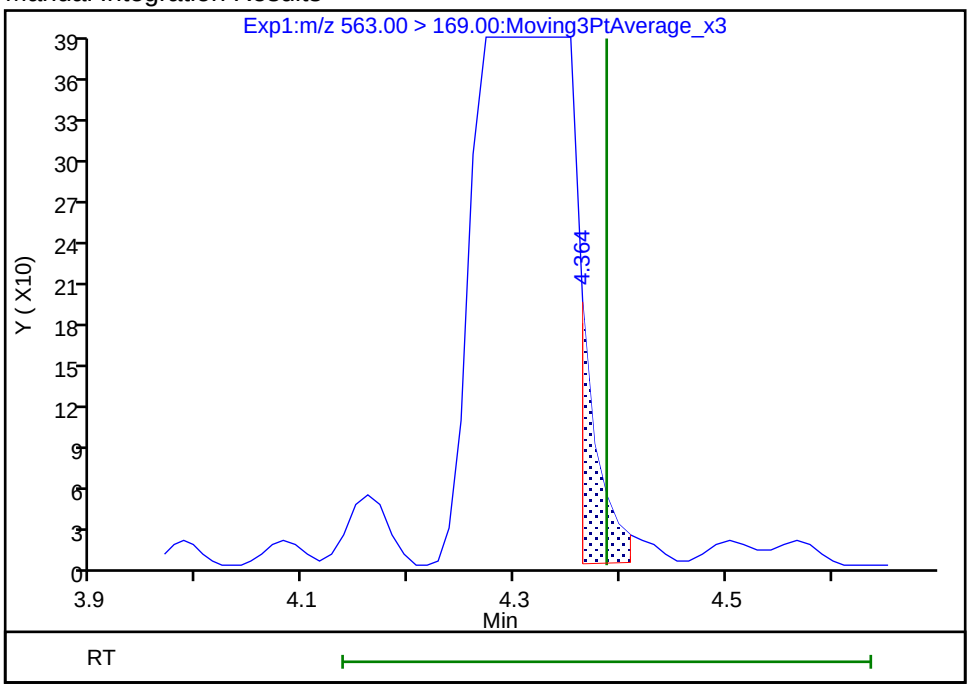
Processing Integration Results

RT: 4.31
Area: 5207
Amount: 0.008811
Amount Units: ng/ml



Manual Integration Results

RT: 4.36
Area: 182
Amount: 0
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:07:36

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

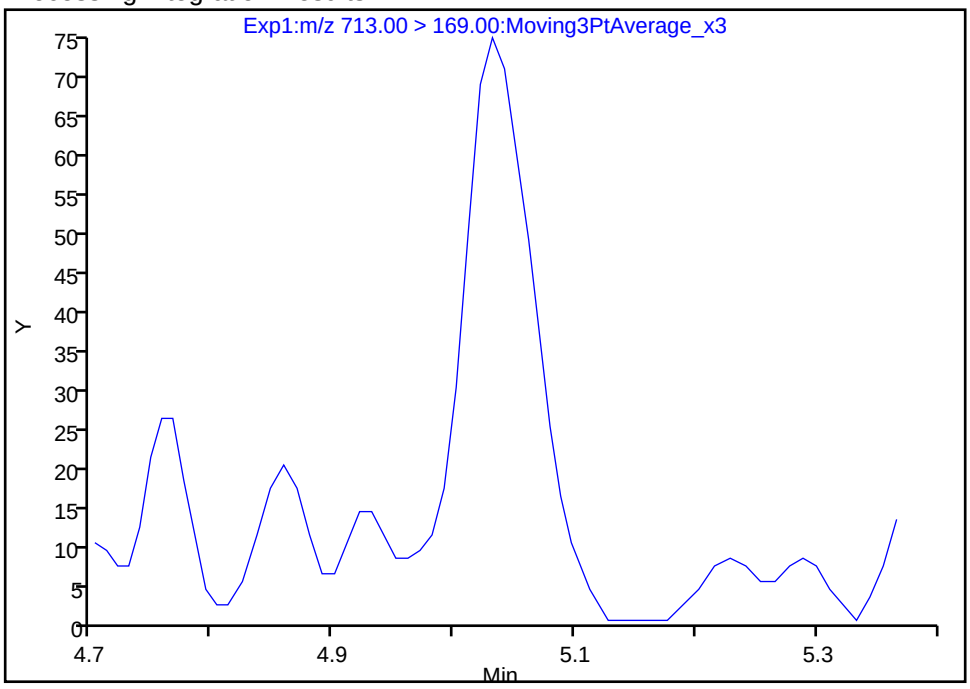
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

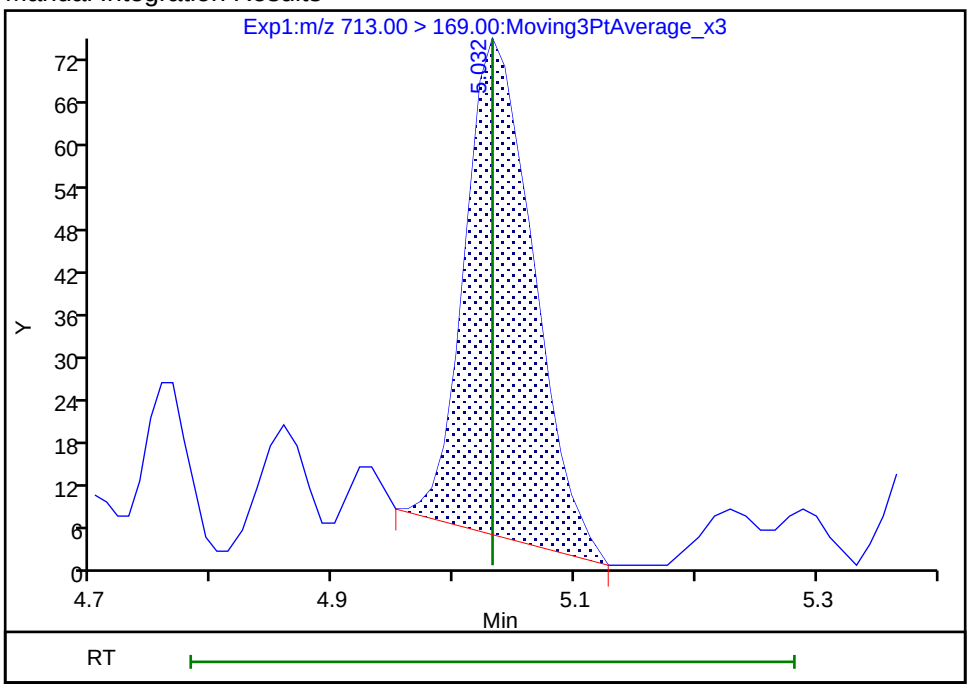
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.03
Area: 280
Amount: 0.002077
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:52:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

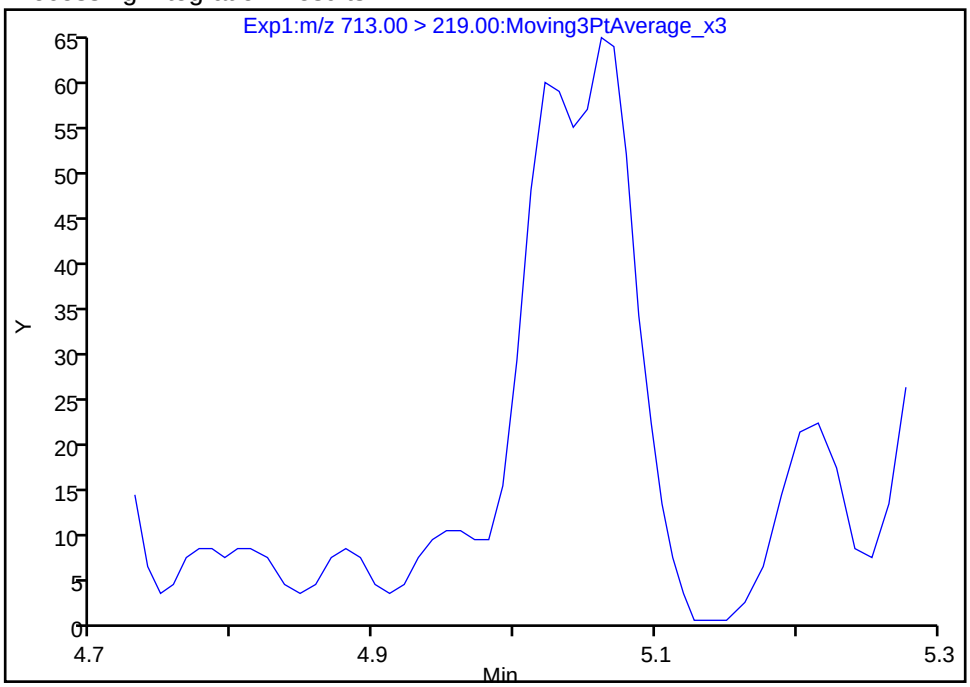
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

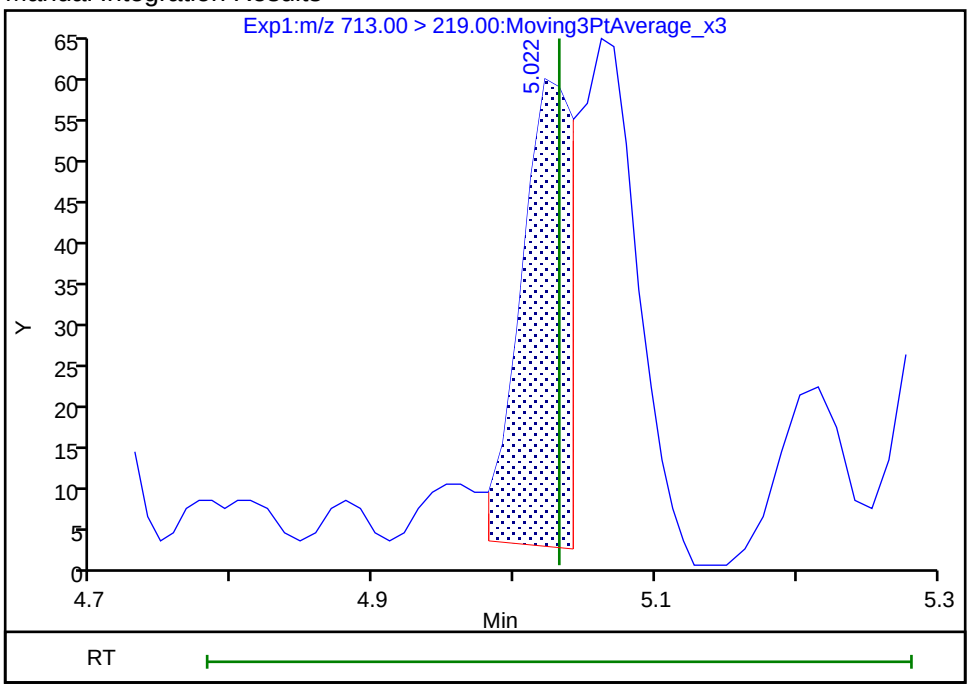
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.02
Area: 136
Amount: 0.002077
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:53:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

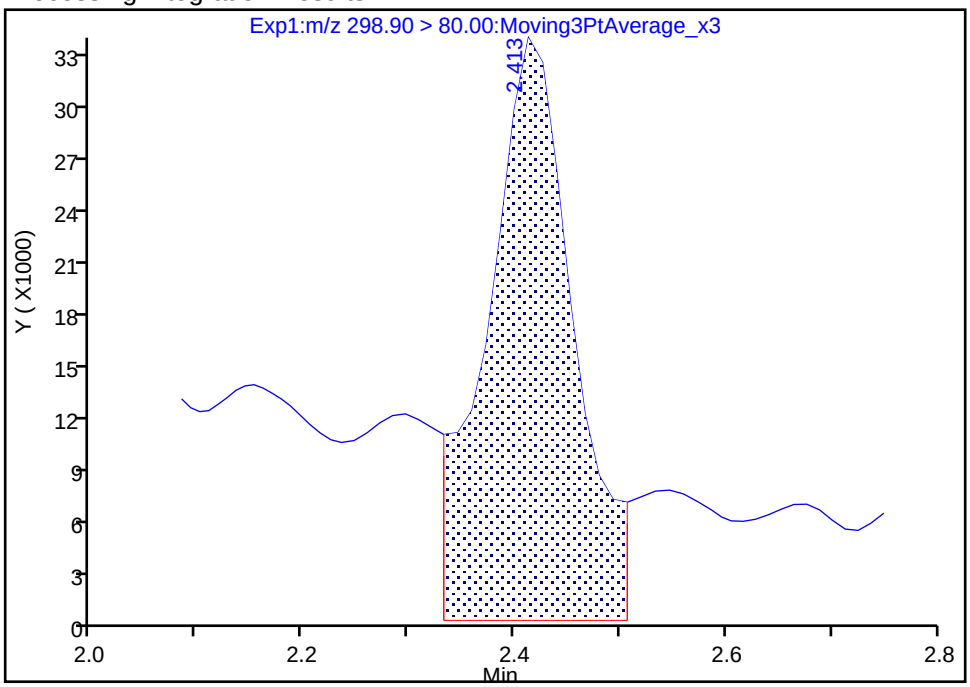
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

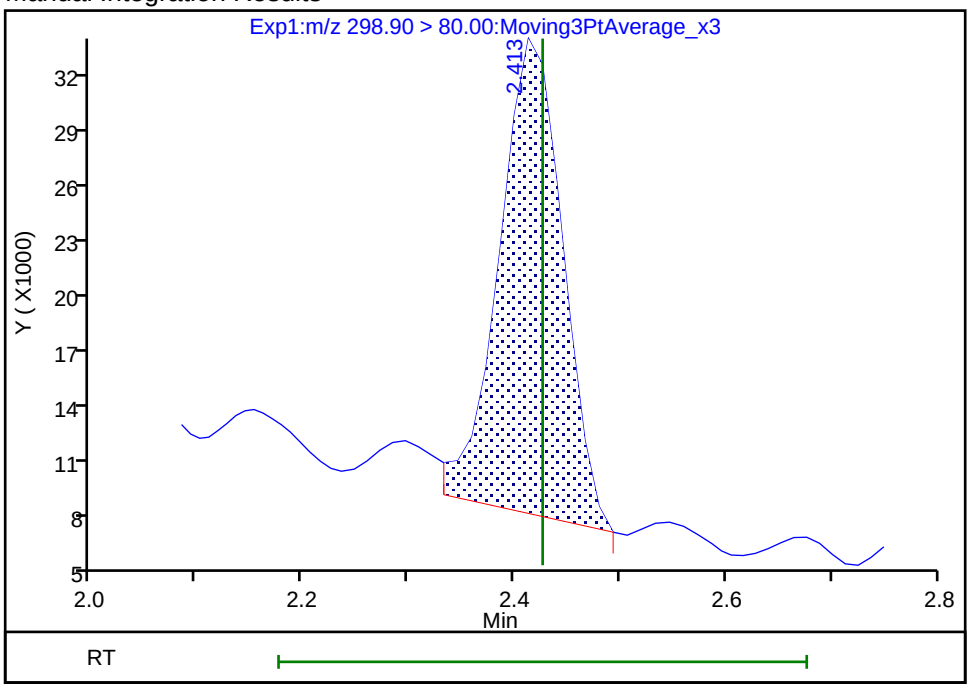
Processing Integration Results

RT: 2.41
Area: 191066
Amount: 0.122826
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 108176
Amount: 0.070265
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:49:19

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

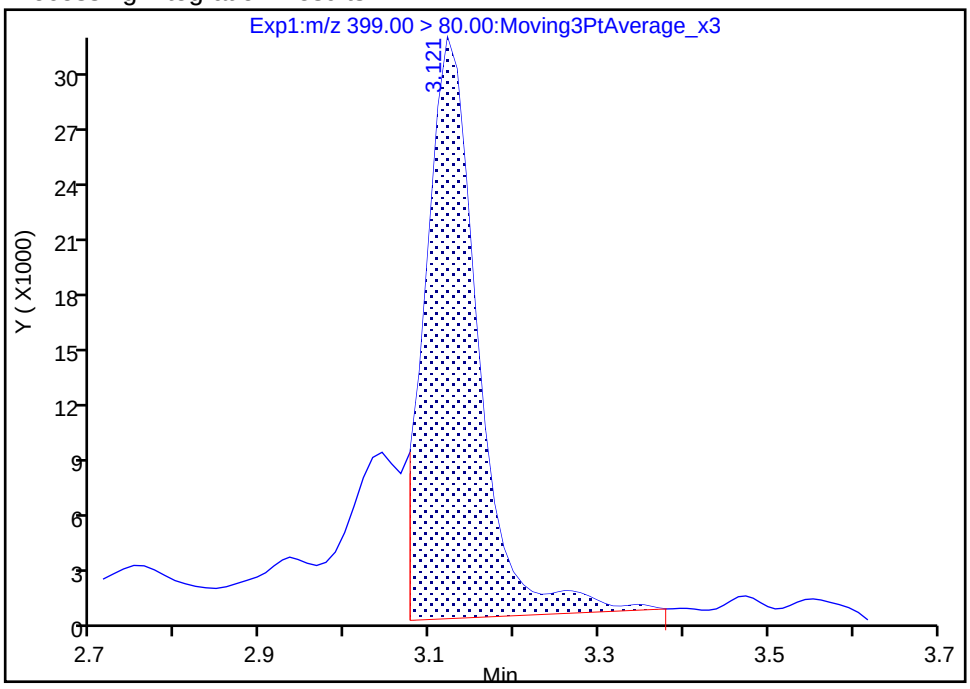
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

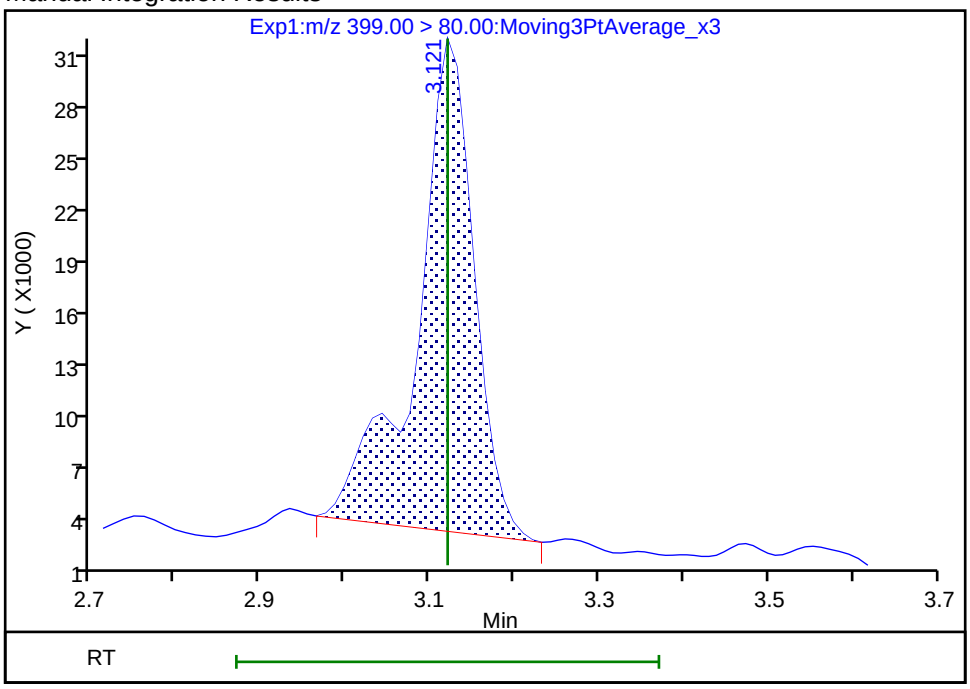
Processing Integration Results

RT: 3.12
Area: 128238
Amount: 0.102463
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 132909
Amount: 0.106700
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:49:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

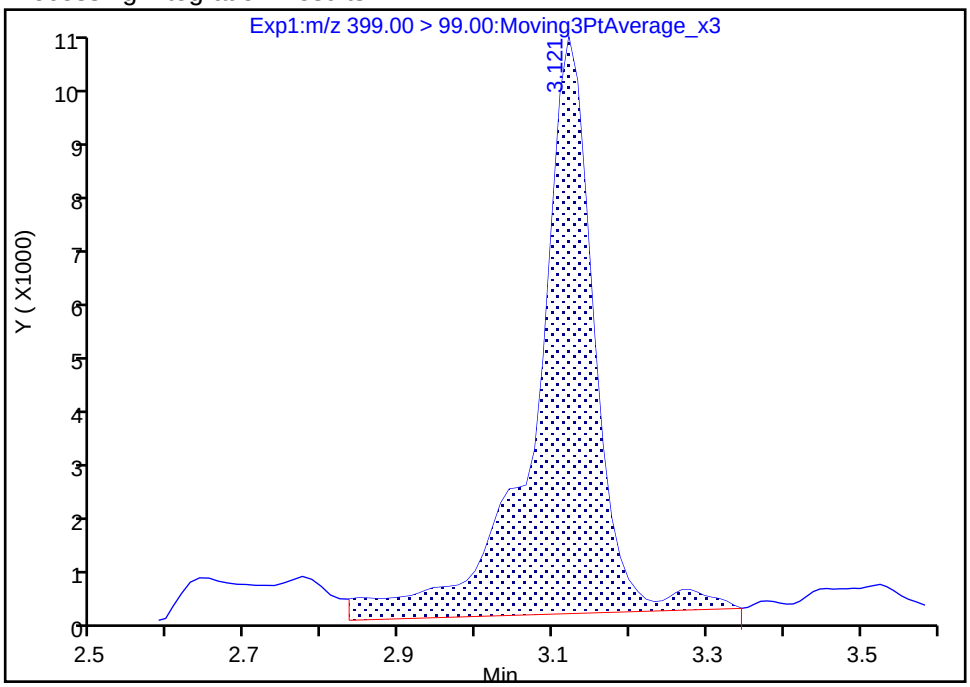
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

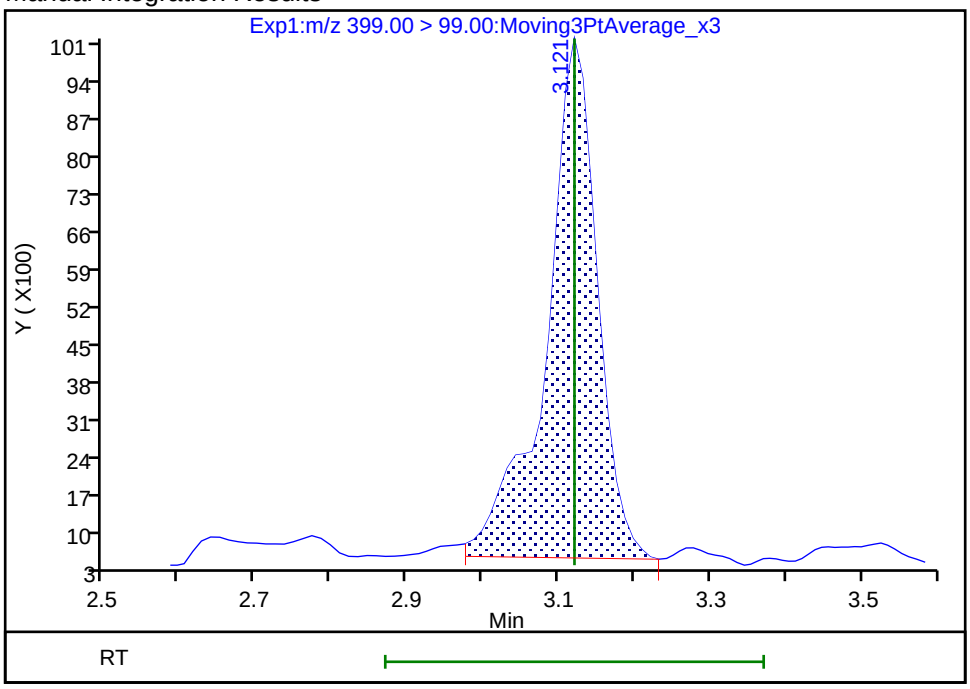
Processing Integration Results

RT: 3.12
Area: 53804
Amount: 0.102463
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 45178
Amount: 0.106700
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:50:08

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

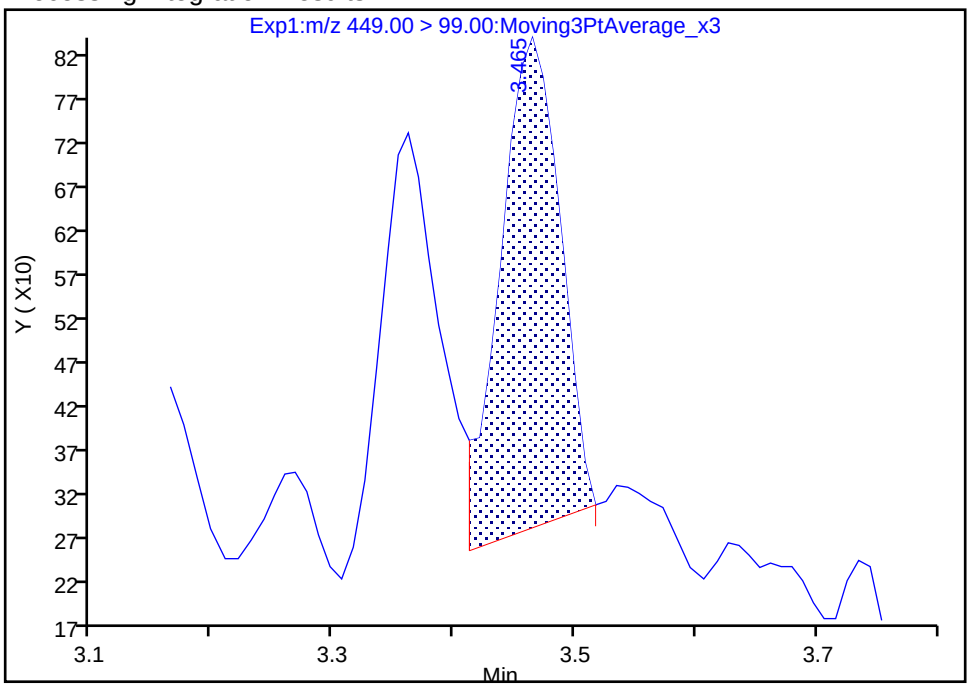
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

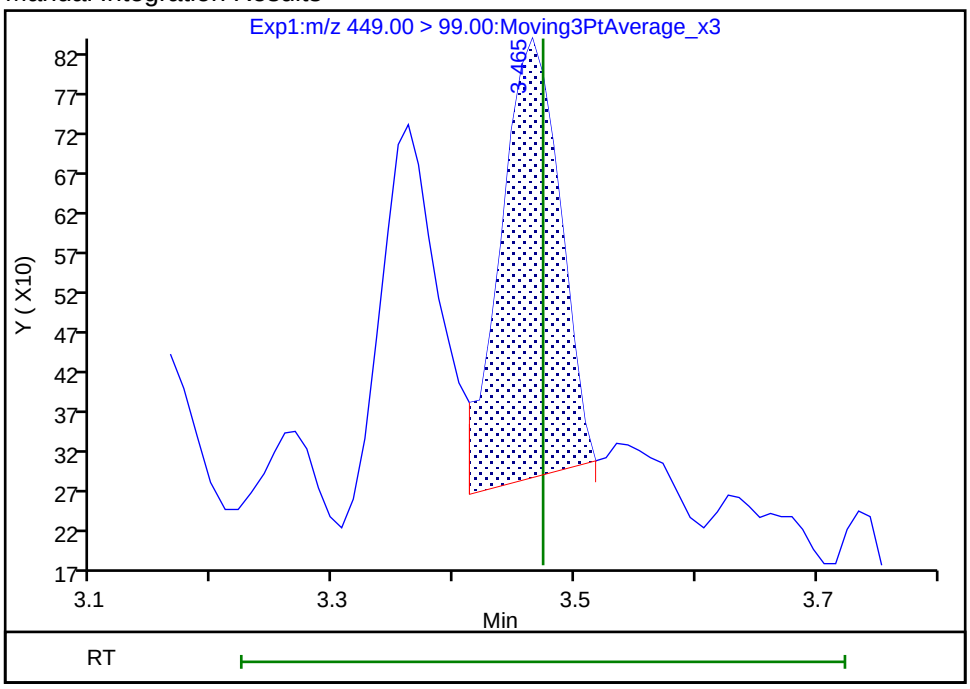
Processing Integration Results

RT: 3.46
Area: 1913
Amount: 0.011047
Amount Units: ng/ml



Manual Integration Results

RT: 3.46
Area: 1882
Amount: 0.011126
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:50:36

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

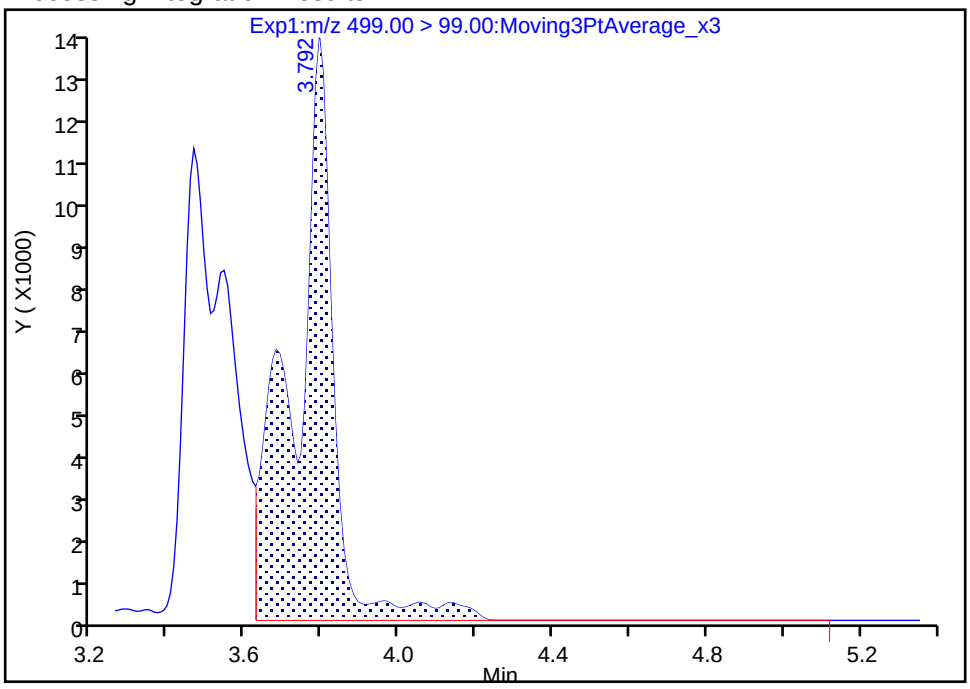
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

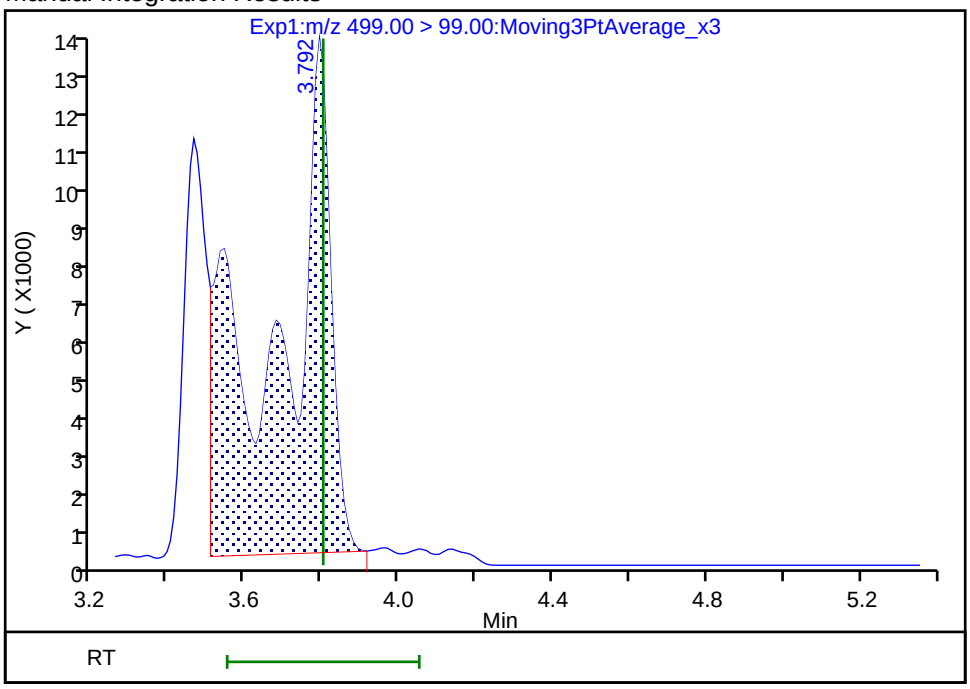
Processing Integration Results

RT: 3.79
Area: 98173
Amount: 0.398375
Amount Units: ng/ml



Manual Integration Results

RT: 3.79
Area: 127714
Amount: 0.385812
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:51:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

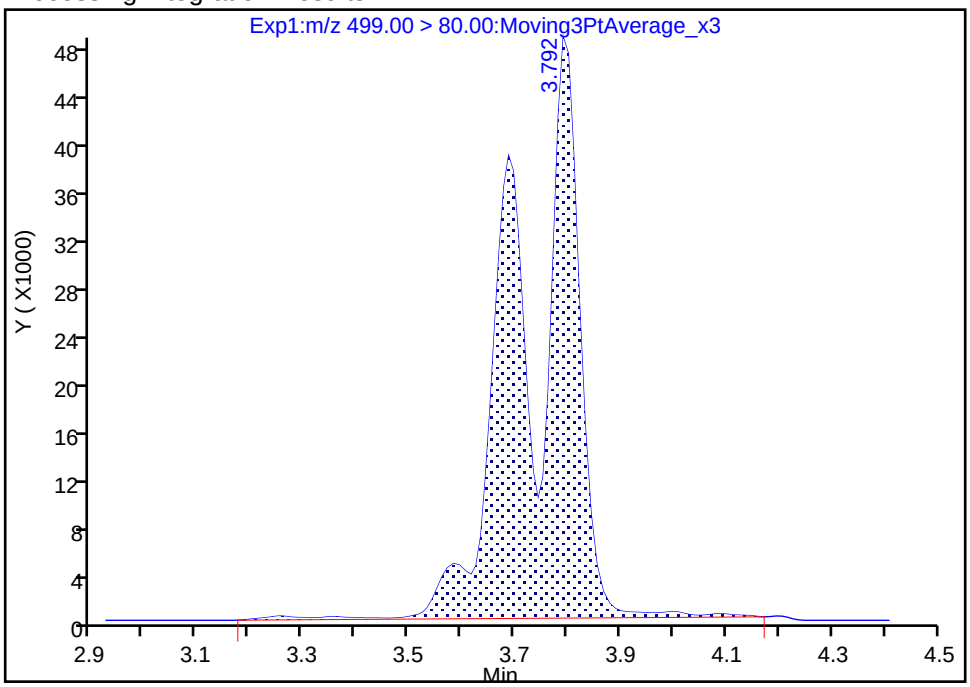
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

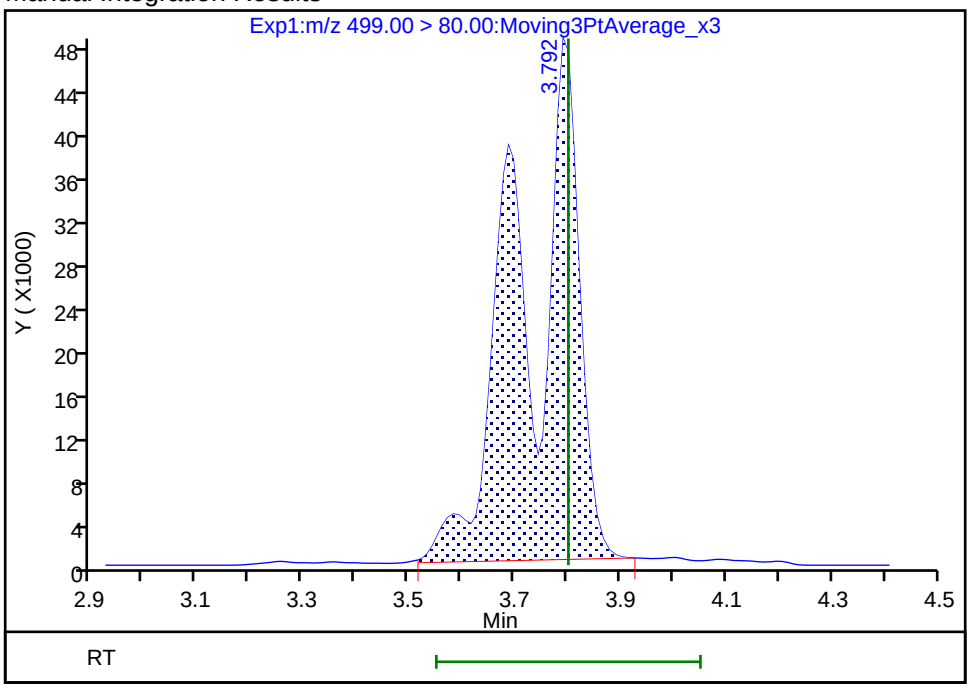
Processing Integration Results

RT: 3.79
Area: 371577
Amount: 0.398375
Amount Units: ng/ml



Manual Integration Results

RT: 3.79
Area: 357313
Amount: 0.385812
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:05:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

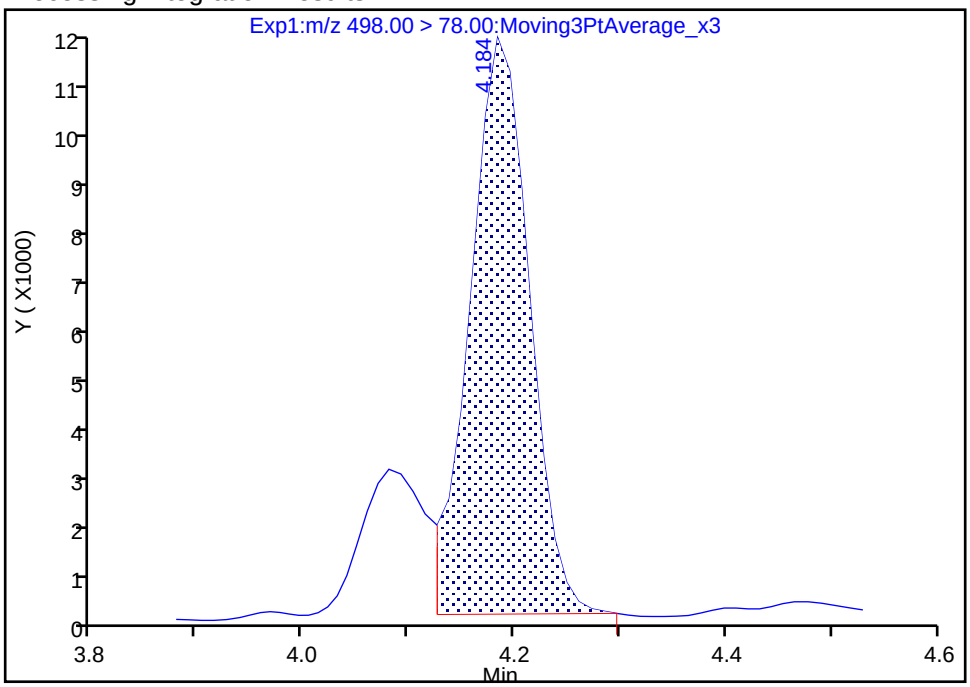
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

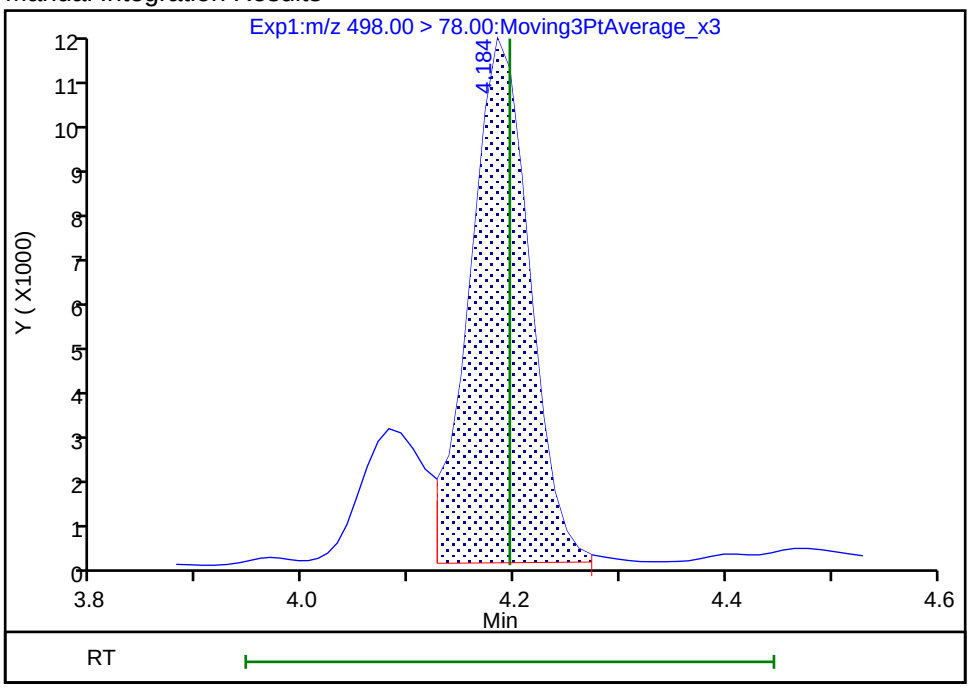
Processing Integration Results

RT: 4.18
Area: 43141
Amount: 0.034792
Amount Units: ng/ml



Manual Integration Results

RT: 4.18
Area: 43671
Amount: 0.035219
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:06:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

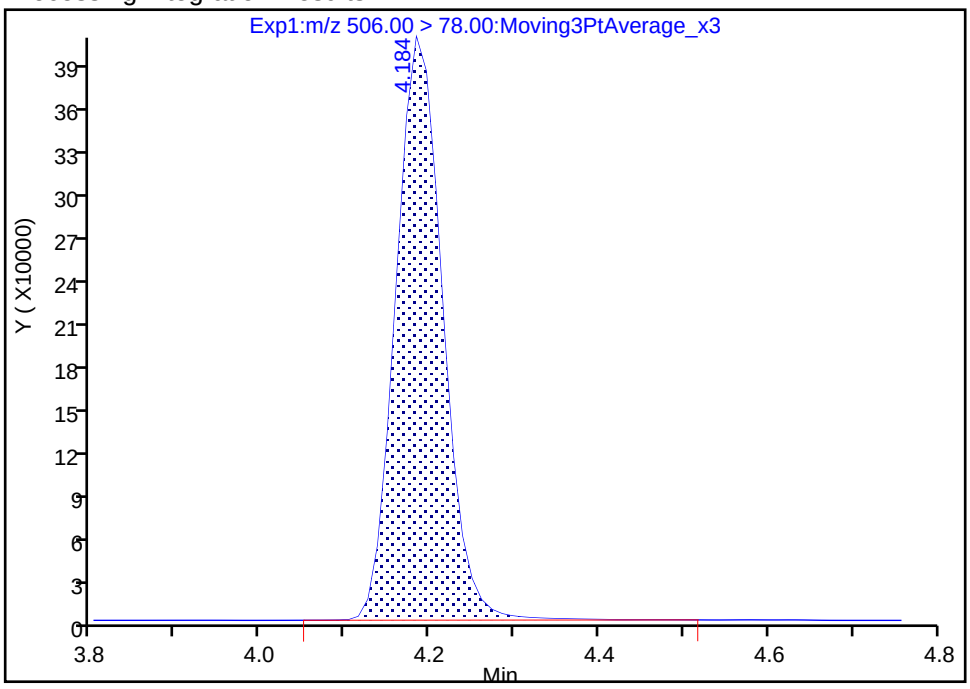
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

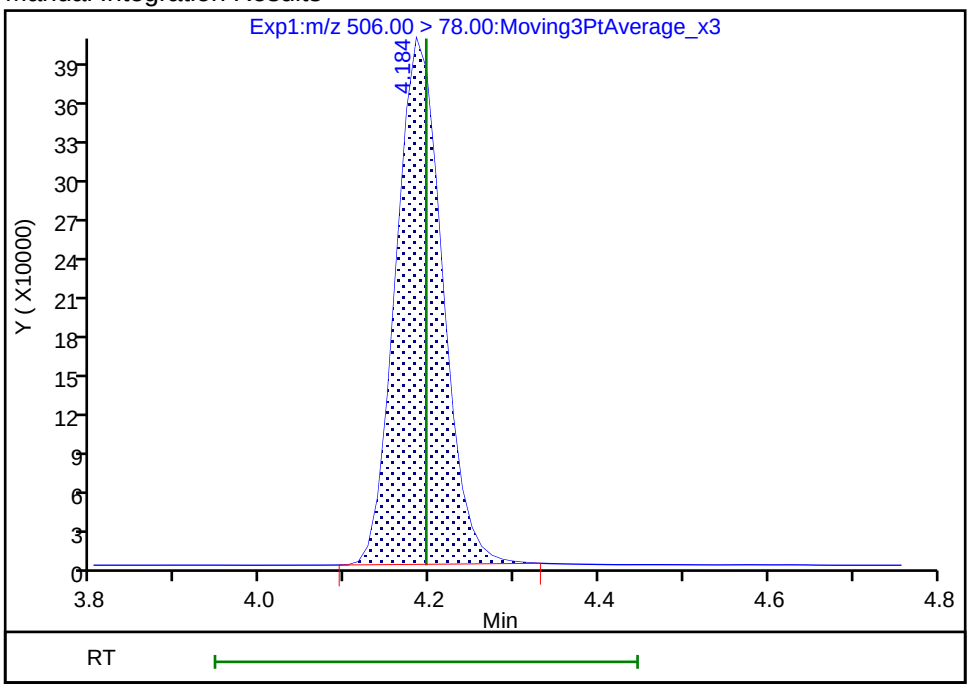
Processing Integration Results

RT: 4.18
Area: 1541017
Amount: 0.981074
Amount Units: ng/ml



Manual Integration Results

RT: 4.18
Area: 1527489
Amount: 0.978374
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:05:58

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

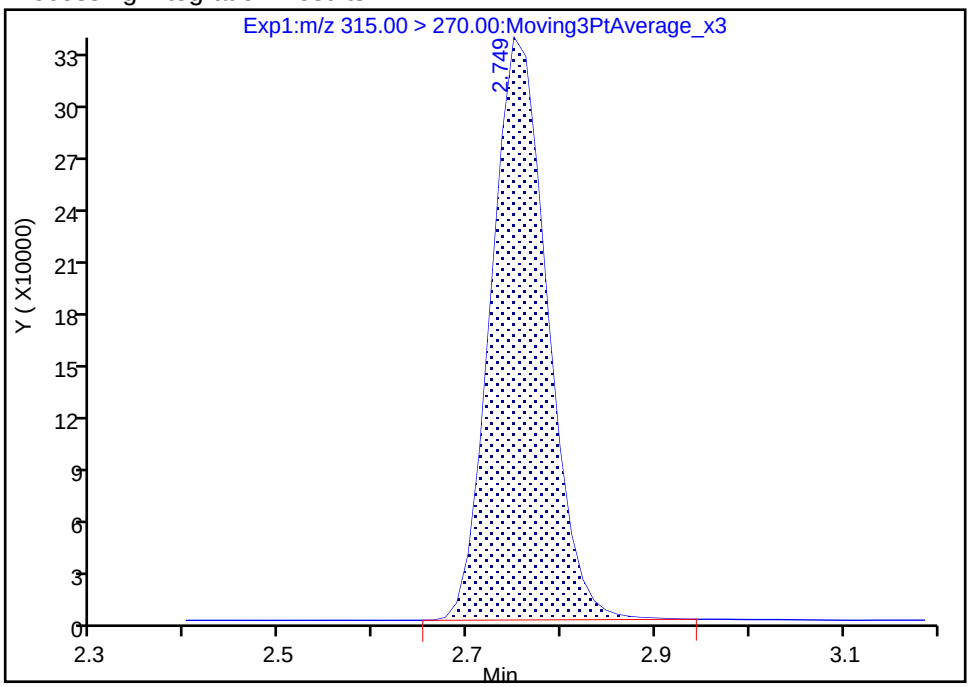
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

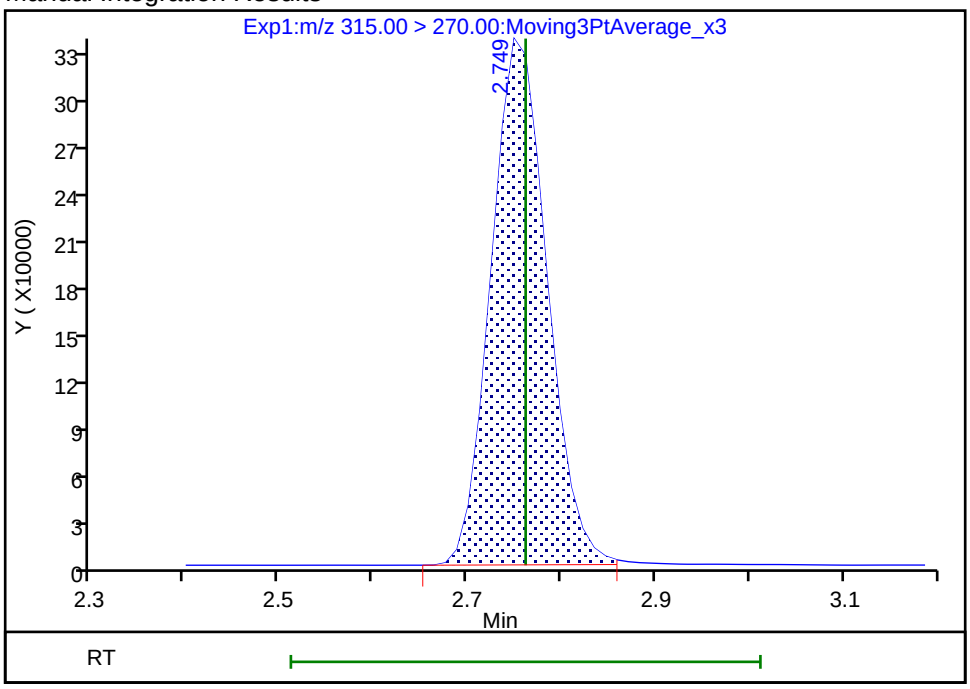
Processing Integration Results

RT: 2.75
Area: 1390450
Amount: 1.156123
Amount Units: ng/ml



Manual Integration Results

RT: 2.75
Area: 1386056
Amount: 1.159476
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:03:27

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

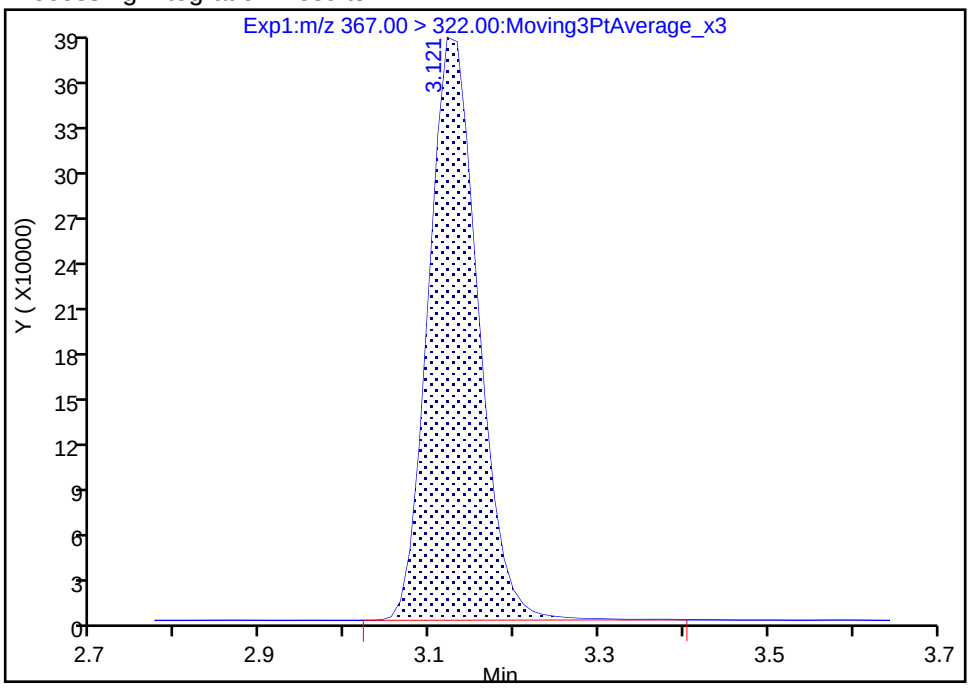
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

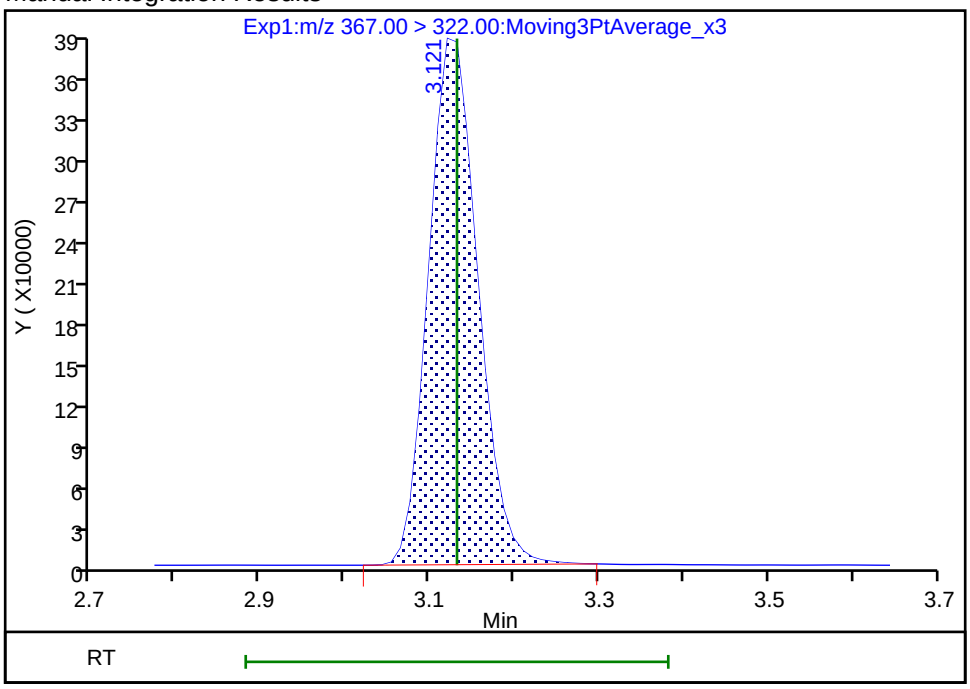
Processing Integration Results

RT: 3.12
Area: 1551365
Amount: 1.195538
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 1543803
Amount: 1.196943
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:03:49

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

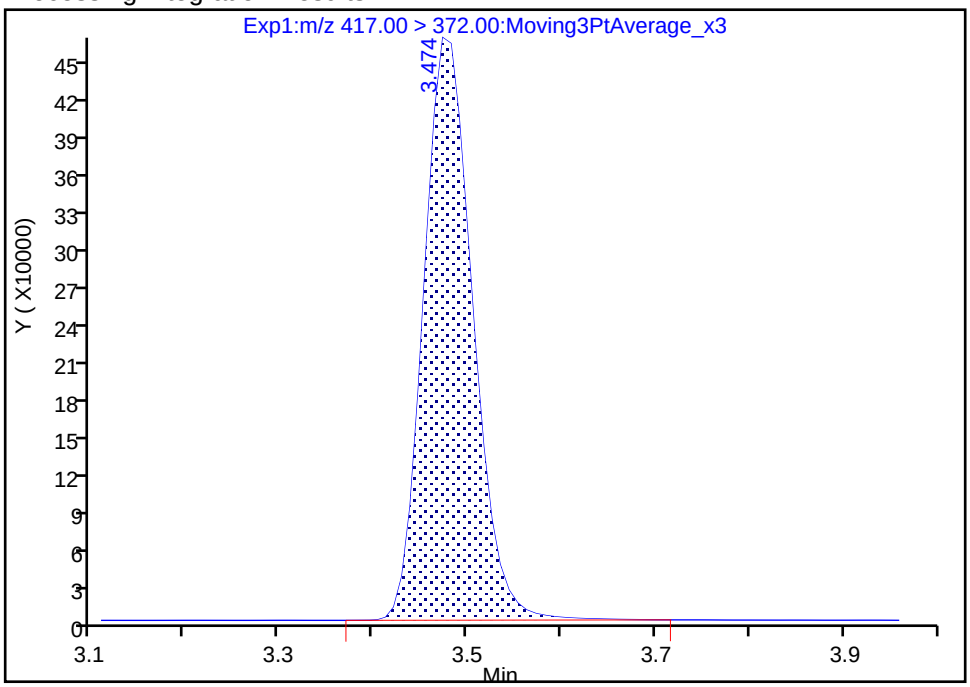
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

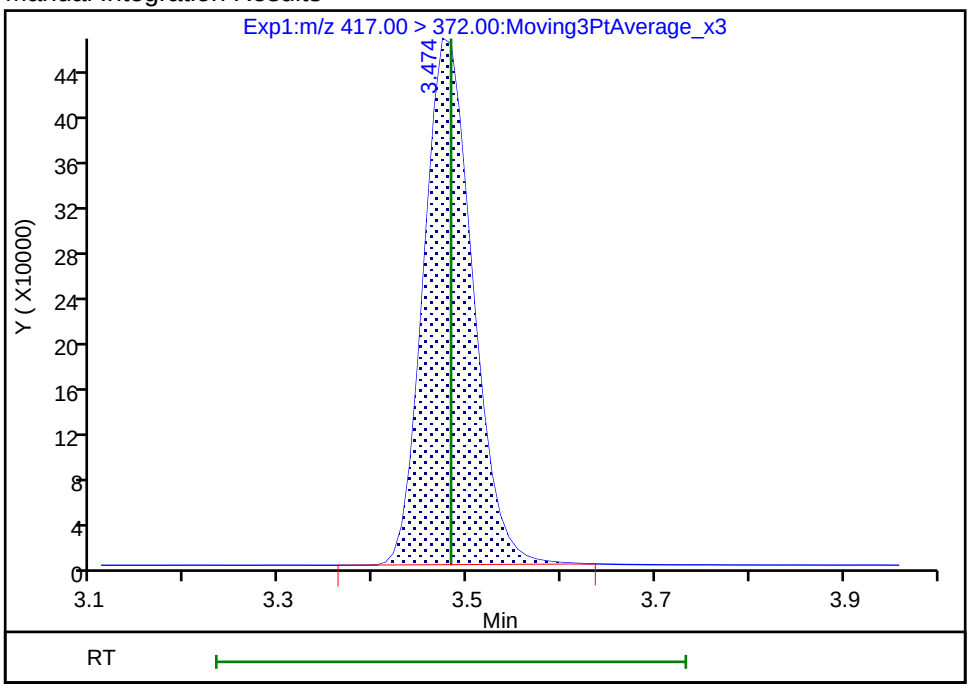
Processing Integration Results

RT: 3.47
Area: 1697460
Amount: 1.251567
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 1688641
Amount: 1.245065
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:04:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

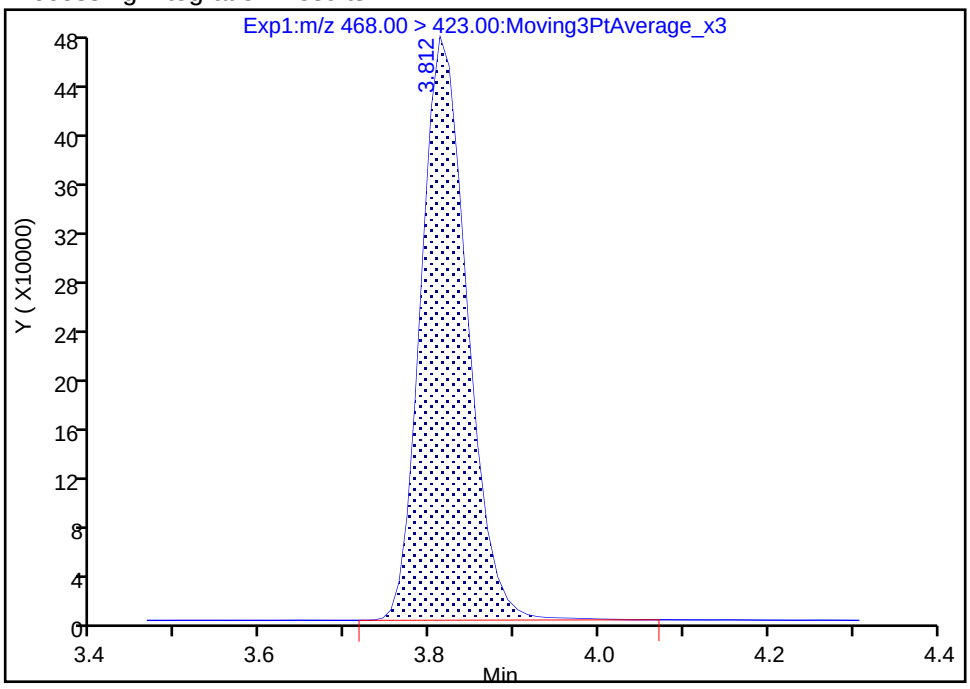
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

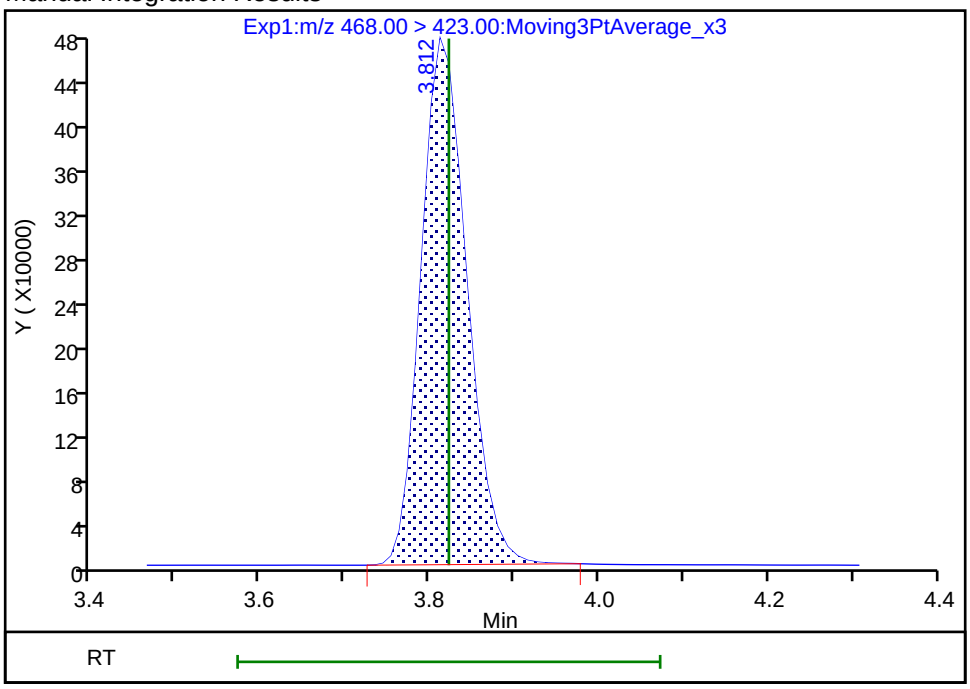
Processing Integration Results

RT: 3.81
Area: 1780640
Amount: 1.208244
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 1771167
Amount: 1.201816
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:05:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

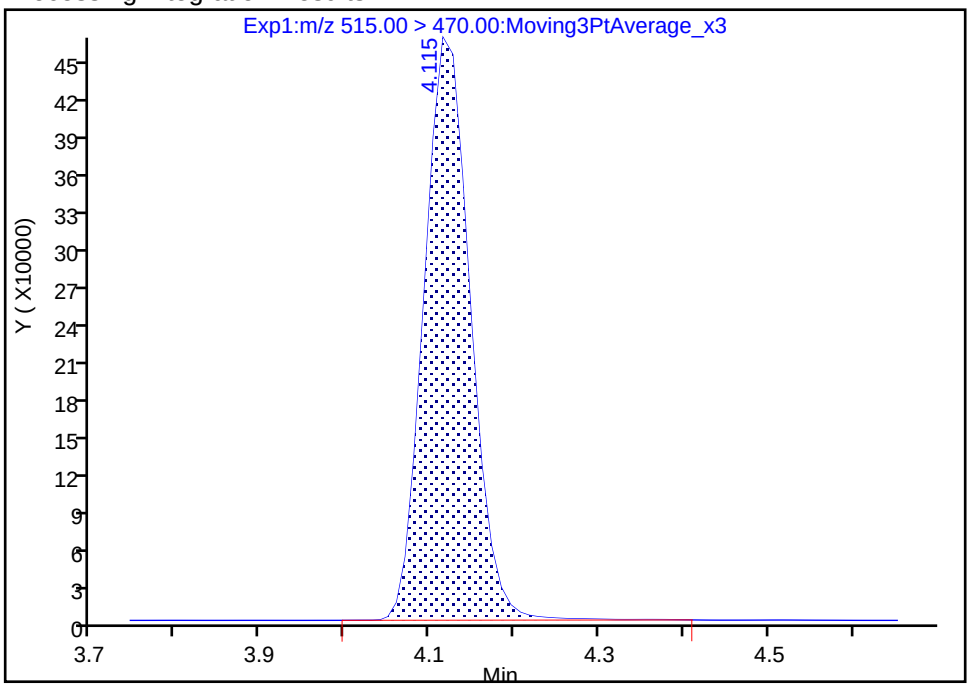
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

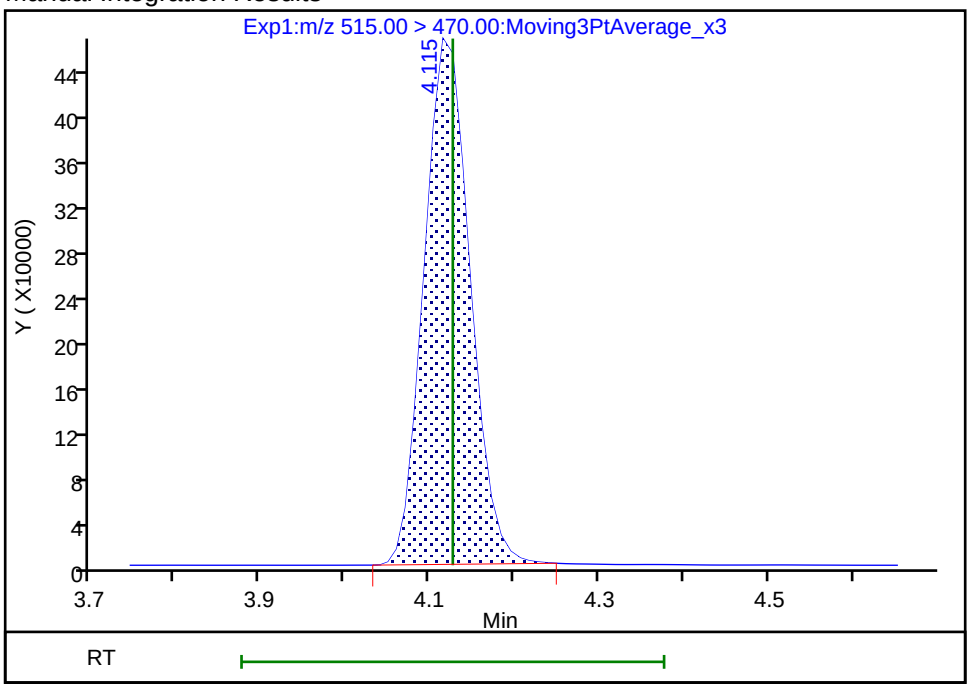
Processing Integration Results

RT: 4.12
Area: 1767402
Amount: 1.245459
Amount Units: ng/ml



Manual Integration Results

RT: 4.12
Area: 1752298
Amount: 1.234815
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:05:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

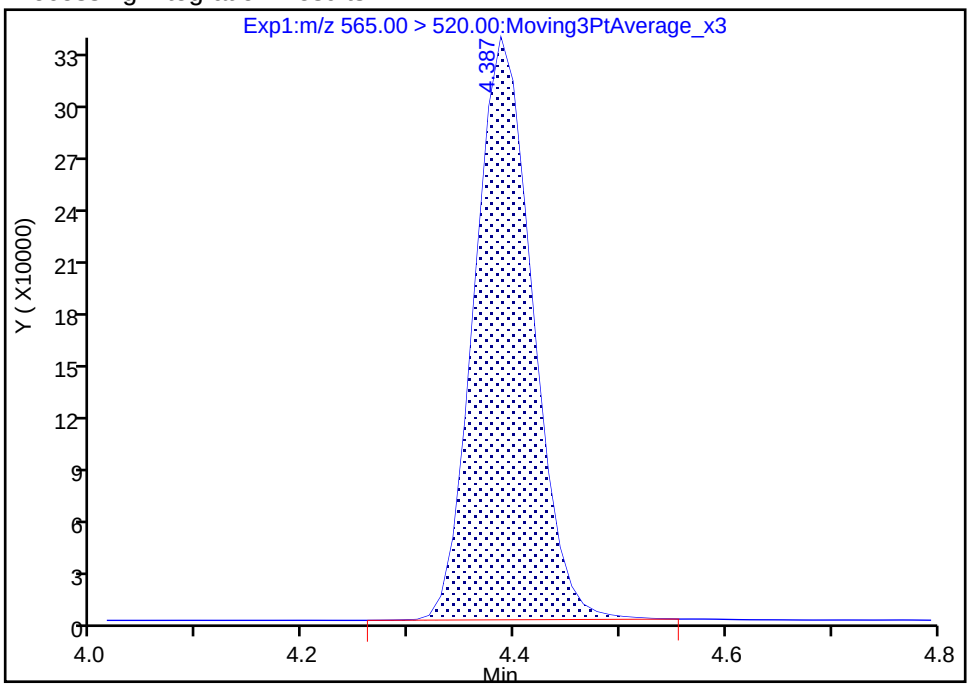
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

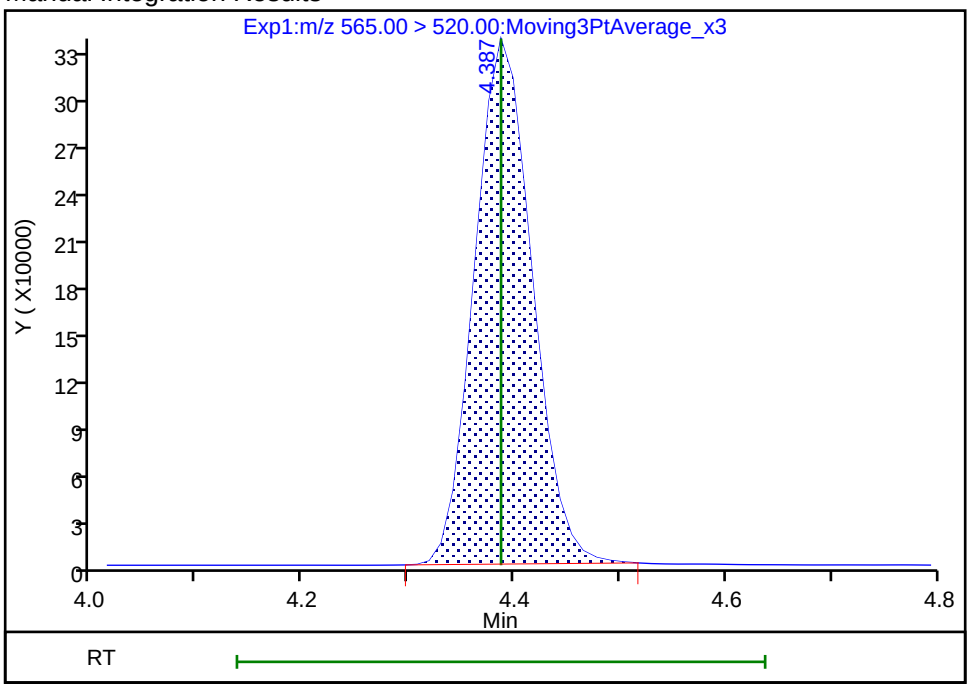
Processing Integration Results

RT: 4.39
Area: 1286717
Amount: 1.129328
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 1279545
Amount: 1.123033
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:07:23

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

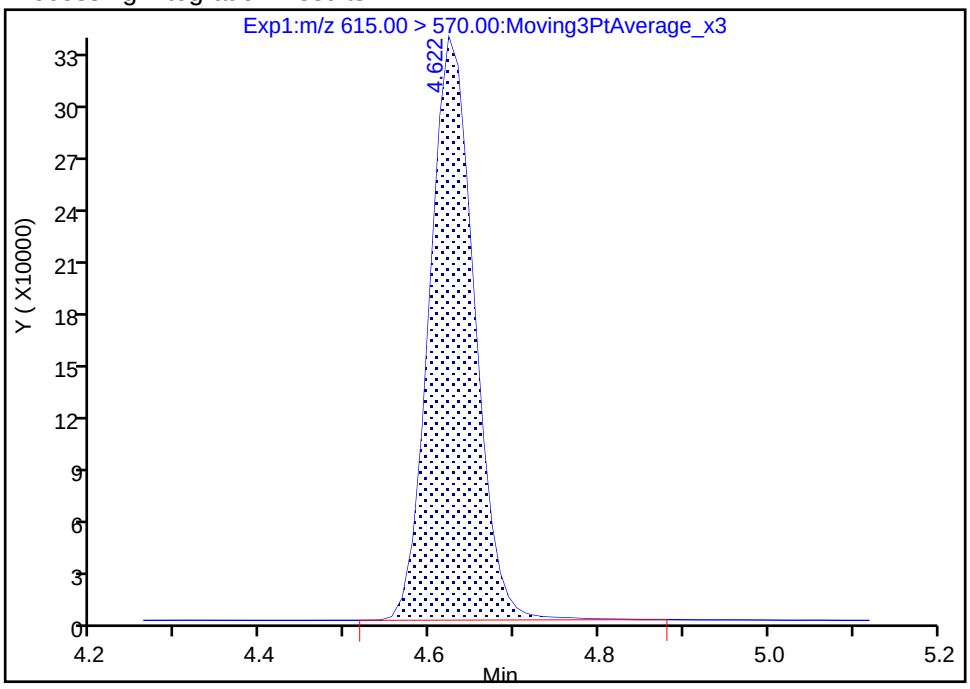
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 36 13C2 PFDoA, CAS: STL00998

Signal: 1

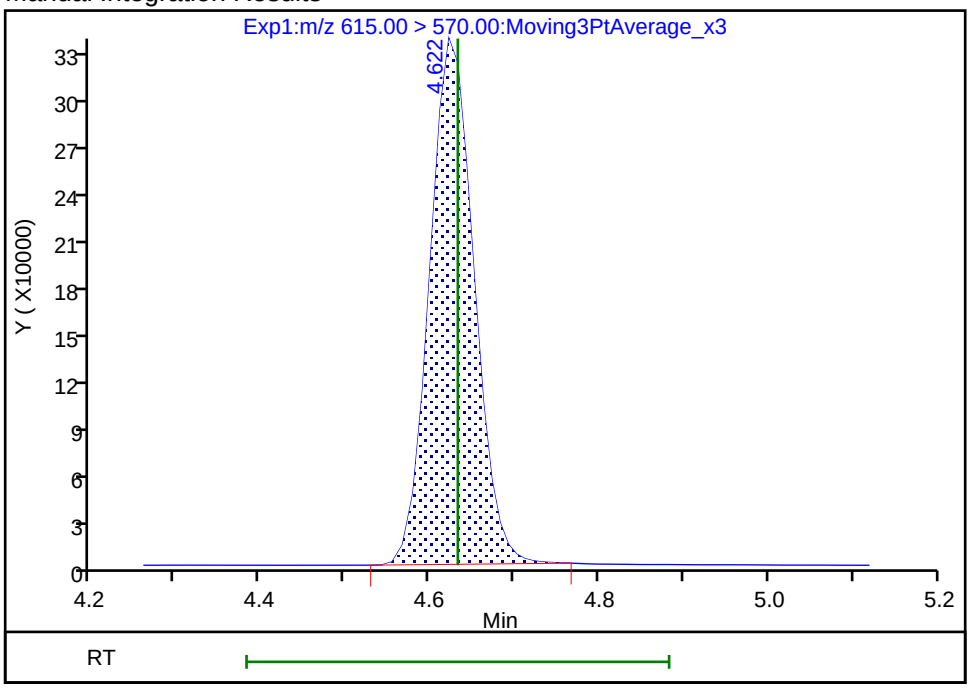
Processing Integration Results

RT: 4.62
Area: 1224073
Amount: 1.005982
Amount Units: ng/ml



Manual Integration Results

RT: 4.62
Area: 1214876
Amount: 0.998424
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:10:09

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

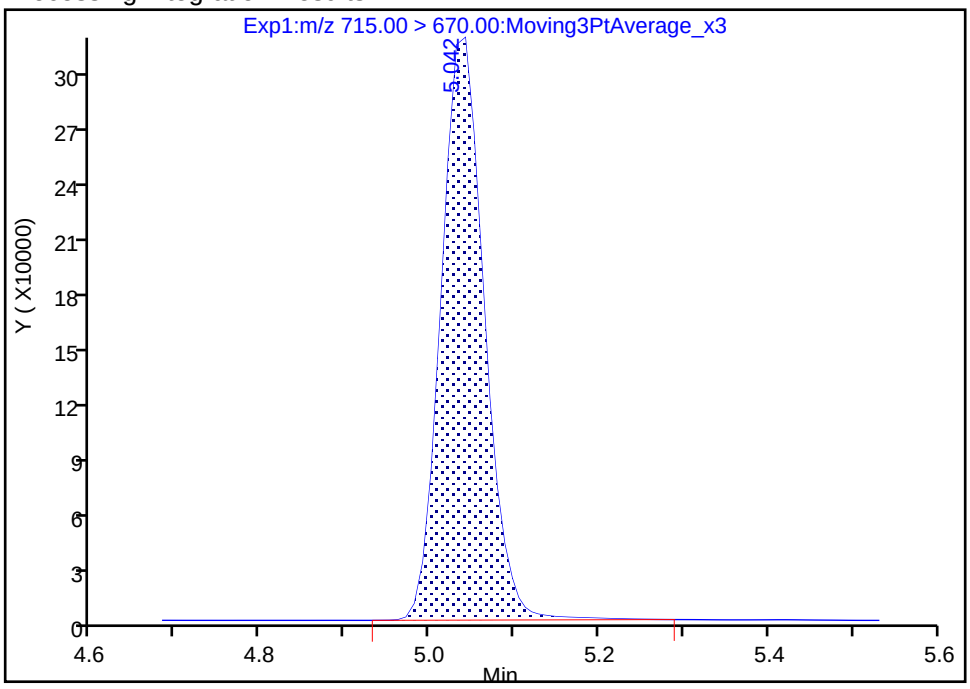
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

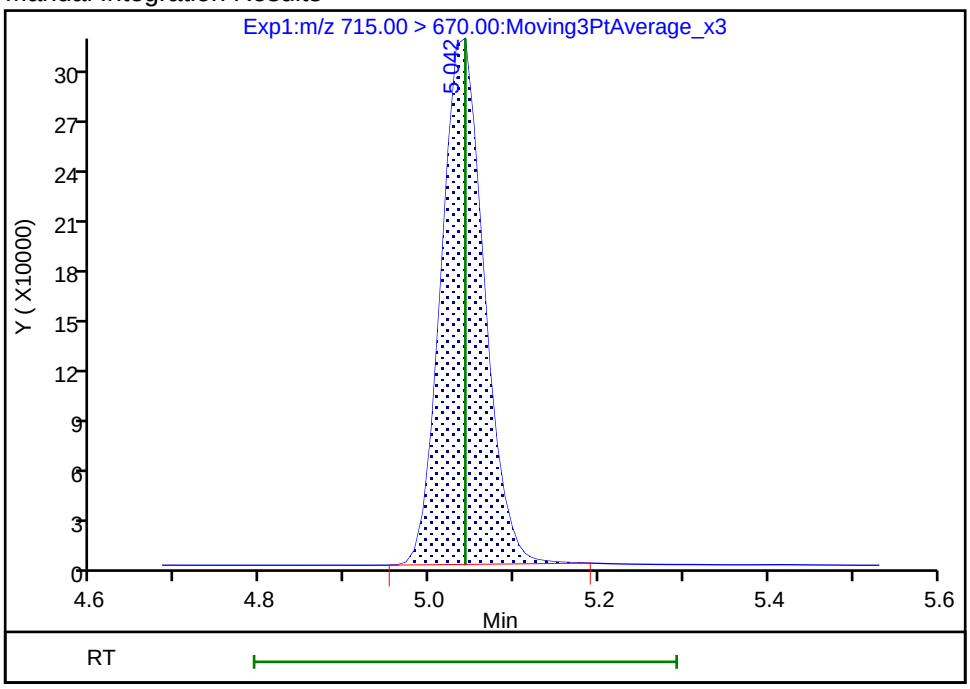
Processing Integration Results

RT: 5.04
Area: 1099379
Amount: 1.105479
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 1090524
Amount: 1.096575
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:10:28

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

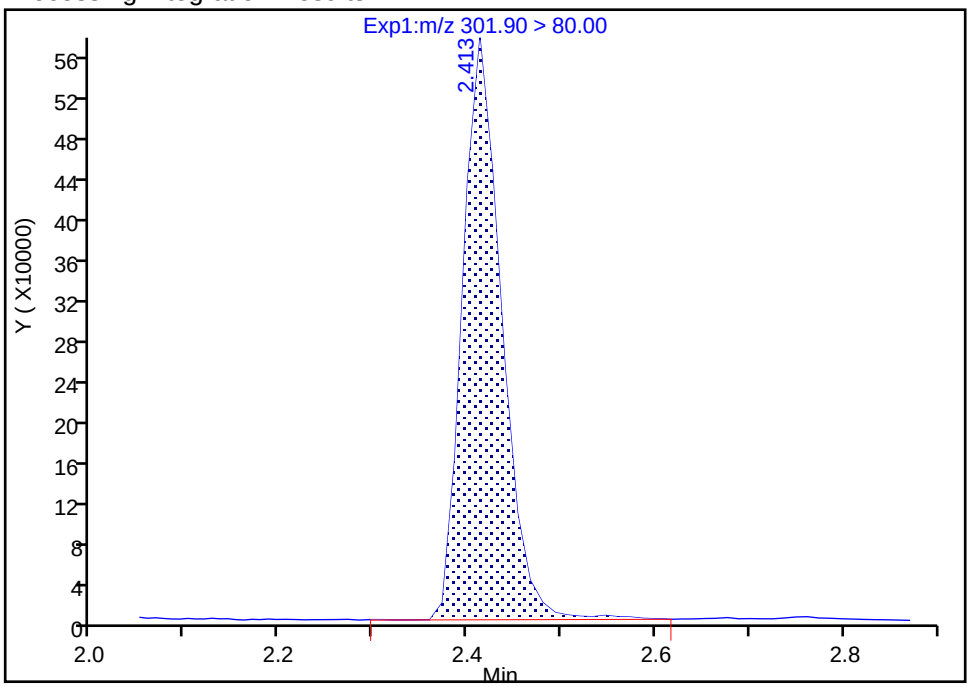
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

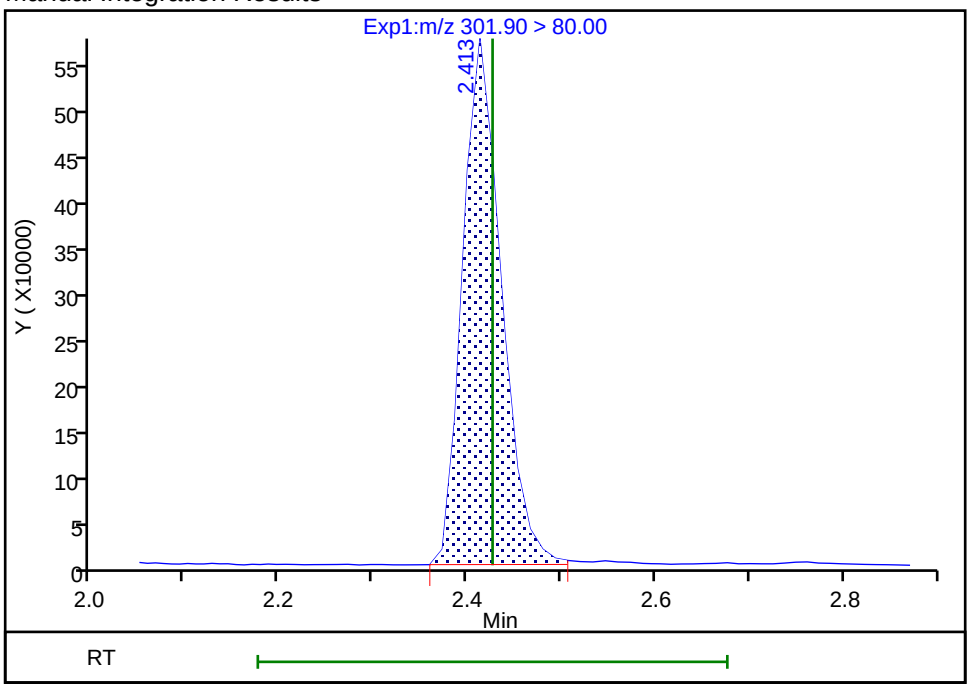
Processing Integration Results

RT: 2.41
Area: 1659008
Amount: 0.972817
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 1641902
Amount: 0.968639
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:03:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

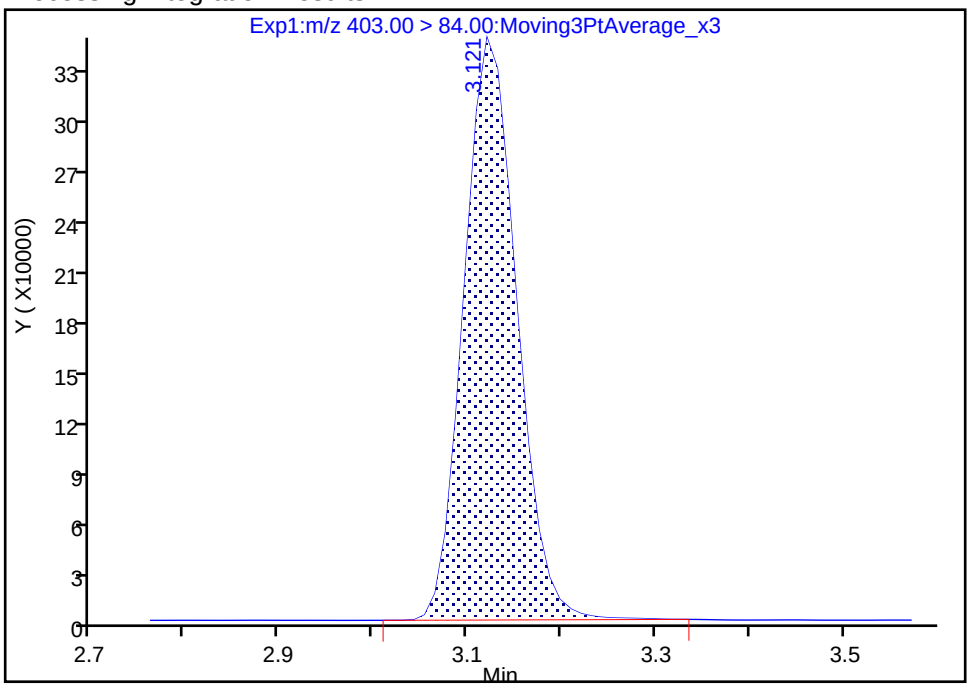
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

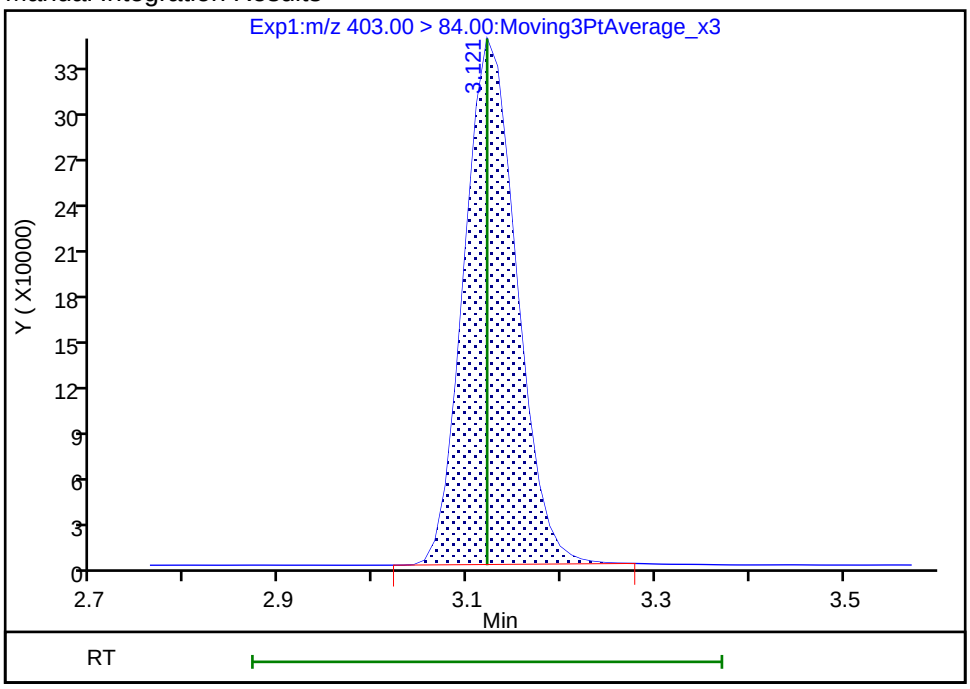
Processing Integration Results

RT: 3.12
Area: 1338989
Amount: 1.003824
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 1332653
Amount: 1.005148
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:03:34

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

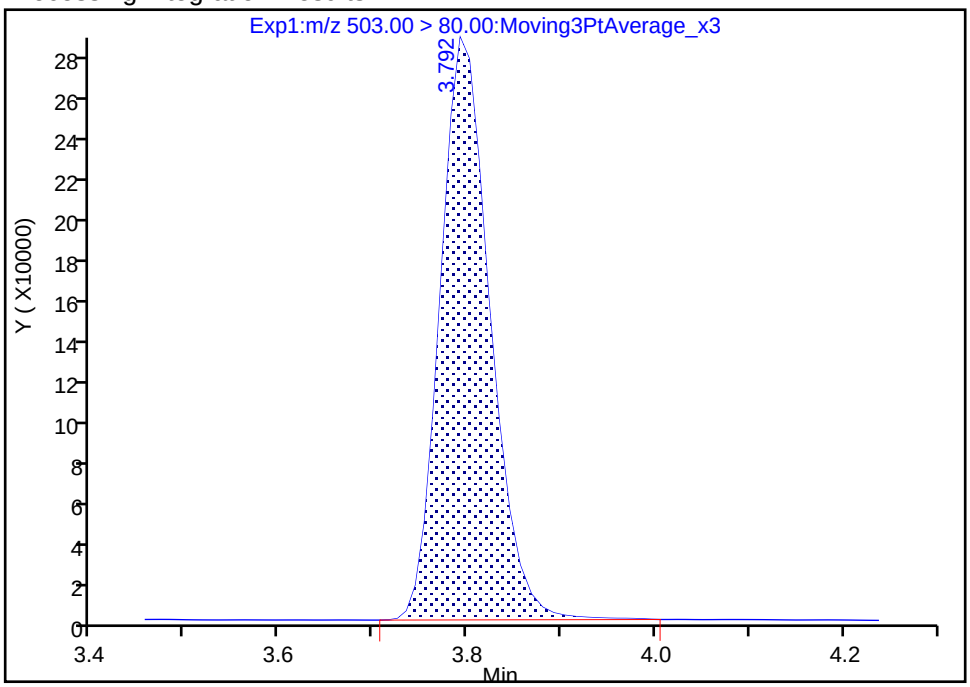
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

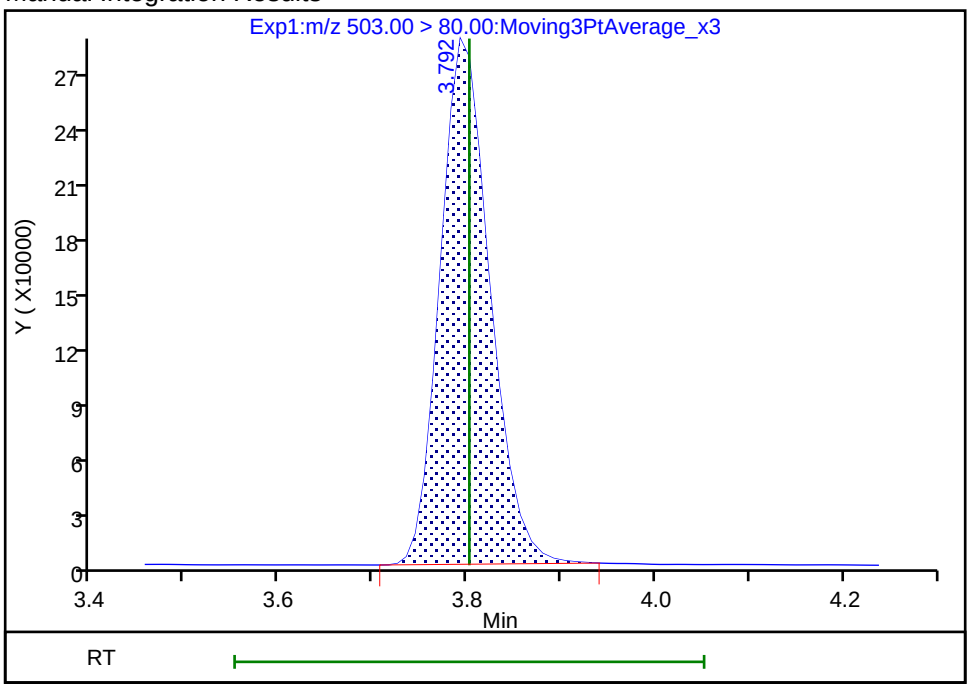
Processing Integration Results

RT: 3.79
Area: 1043761
Amount: 1.002112
Amount Units: ng/ml



Manual Integration Results

RT: 3.79
Area: 1036375
Amount: 0.995021
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:04:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

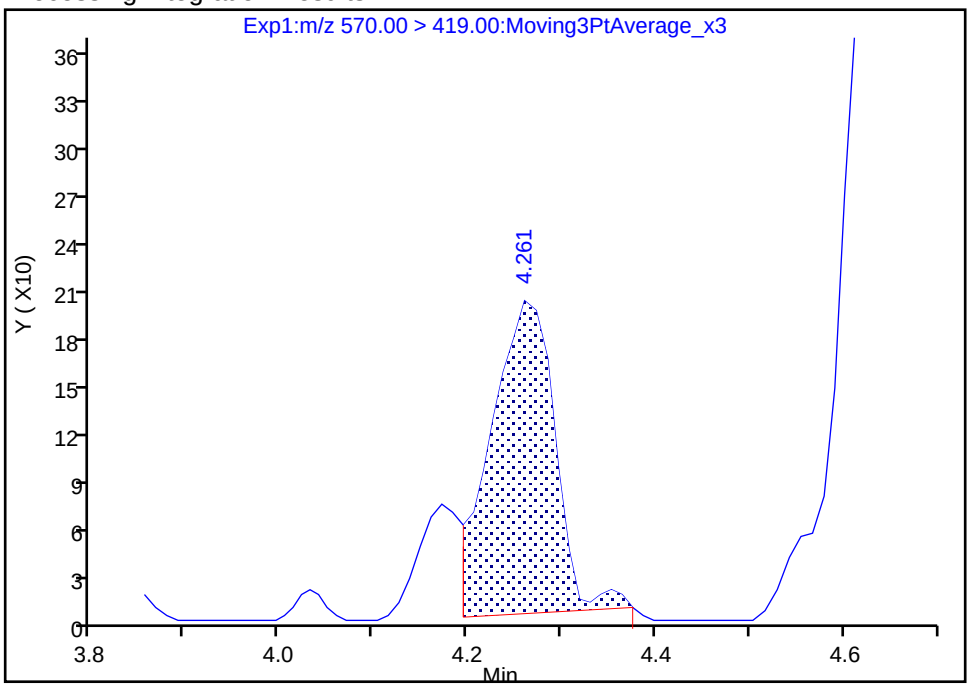
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

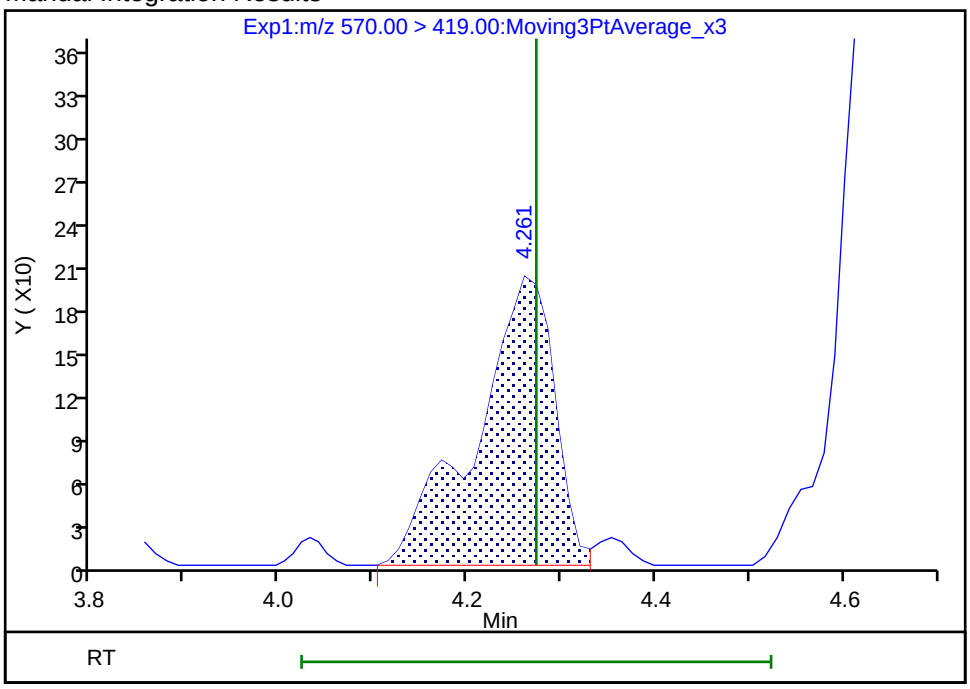
Processing Integration Results

RT: 4.26
Area: 911
Amount: 0.004730
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 1143
Amount: 0.005965
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:52:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

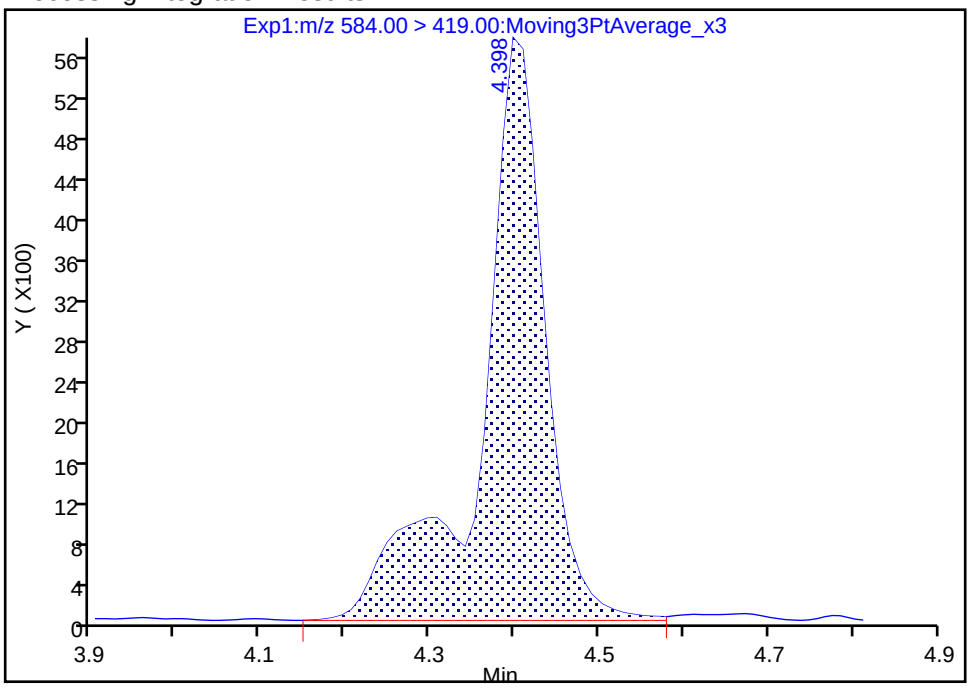
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

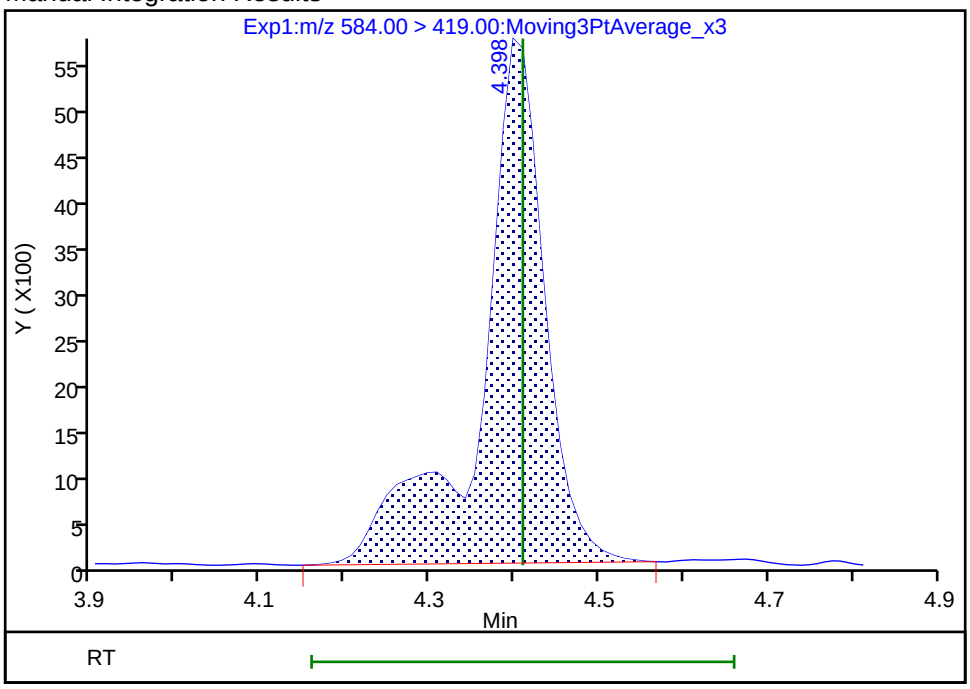
Processing Integration Results

RT: 4.40
Area: 30711
Amount: 0.157859
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 30195
Amount: 0.155206
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:10:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

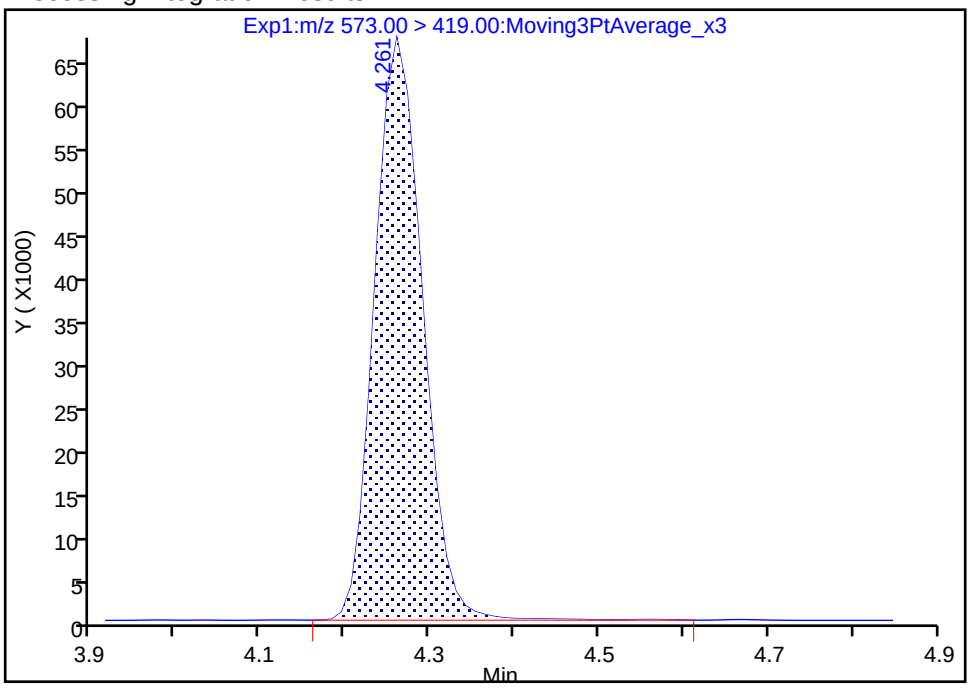
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

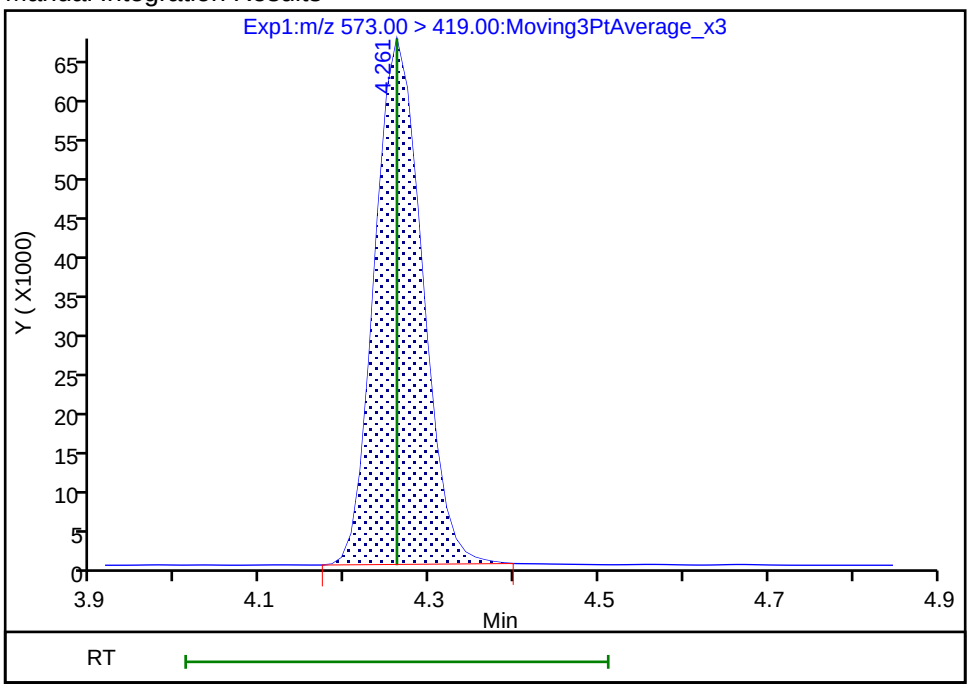
Processing Integration Results

RT: 4.26
Area: 265818
Amount: 1.402689
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 263382
Amount: 1.398284
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:06:45

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

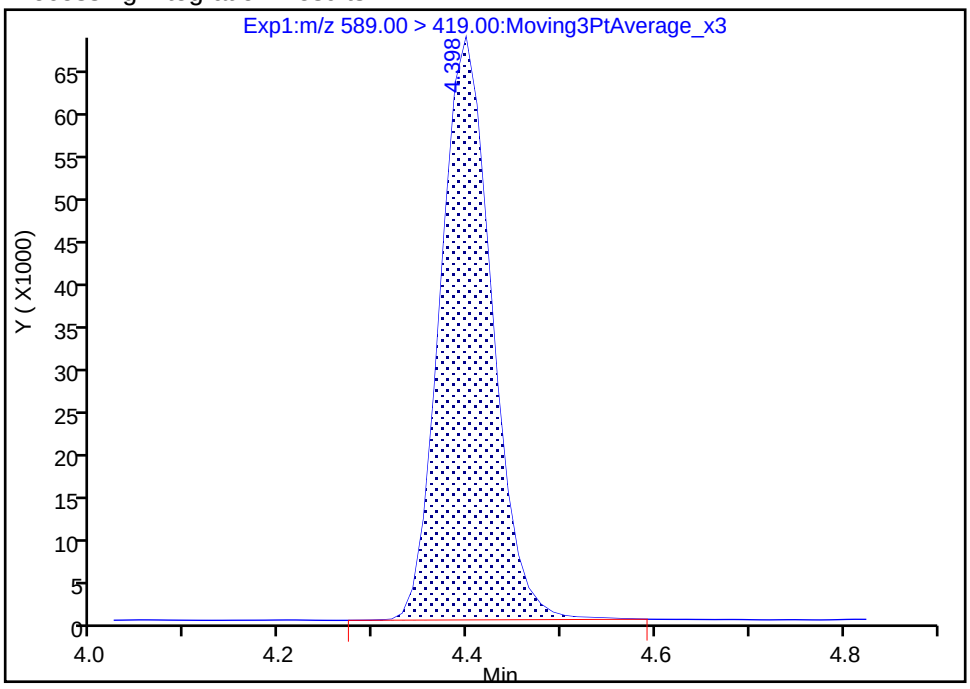
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

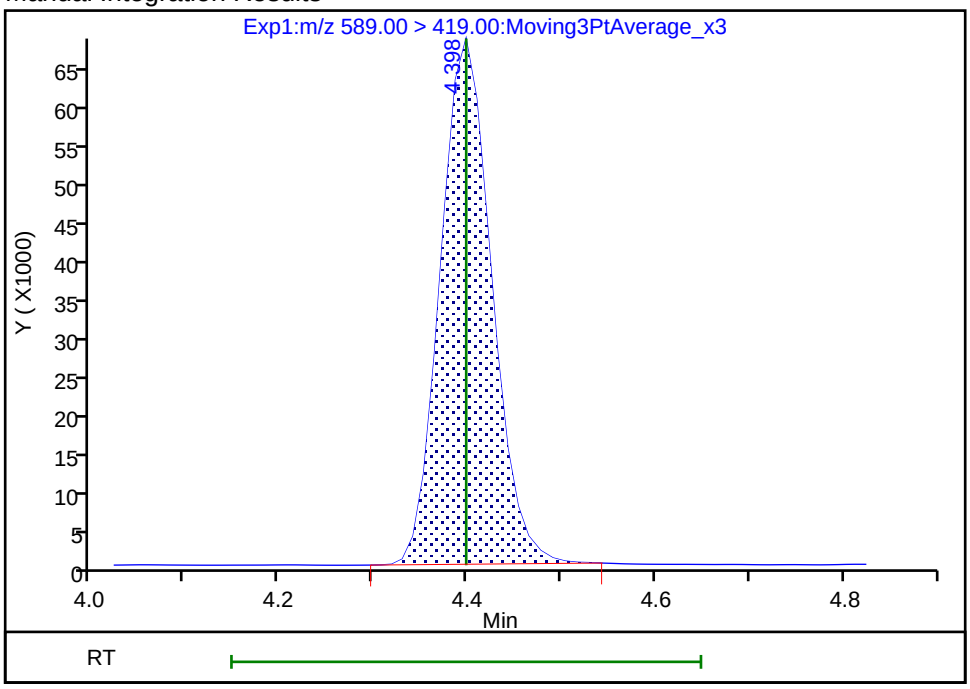
Processing Integration Results

RT: 4.40
Area: 260783
Amount: 1.417388
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 259221
Amount: 1.408899
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:09:55

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

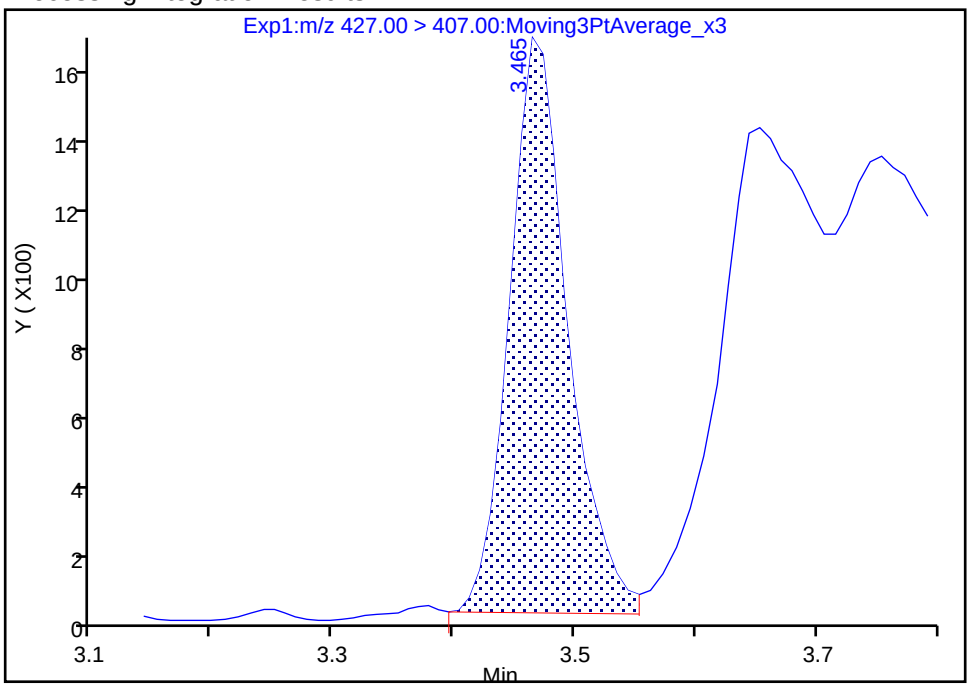
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

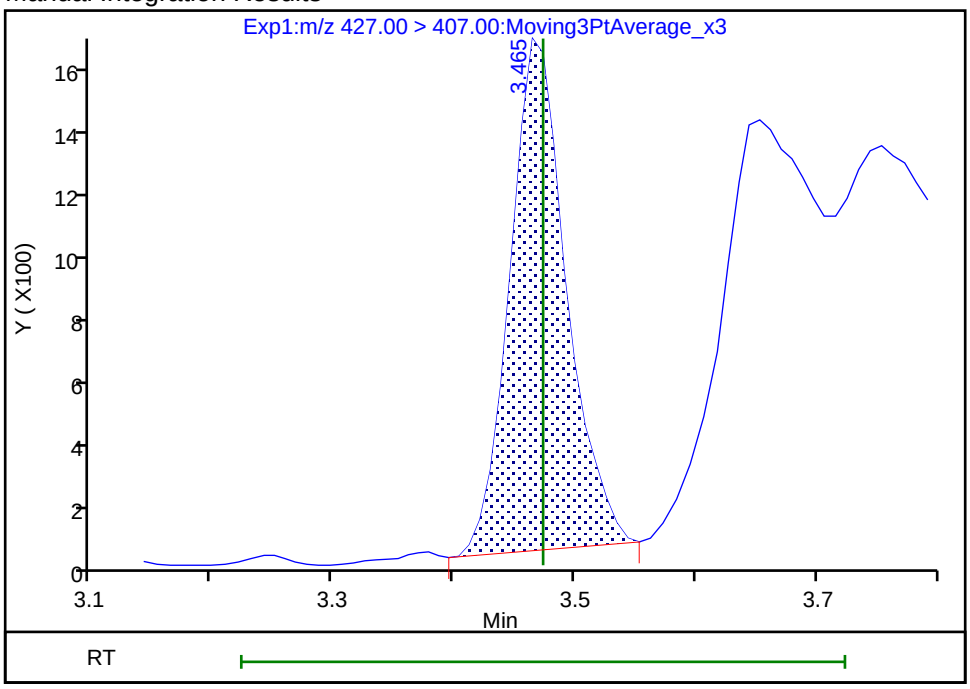
Processing Integration Results

RT: 3.46
Area: 5466
Amount: -0.012408
Amount Units: ng/ml



Manual Integration Results

RT: 3.46
Area: 5205
Amount: -0.013127
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:50:45

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

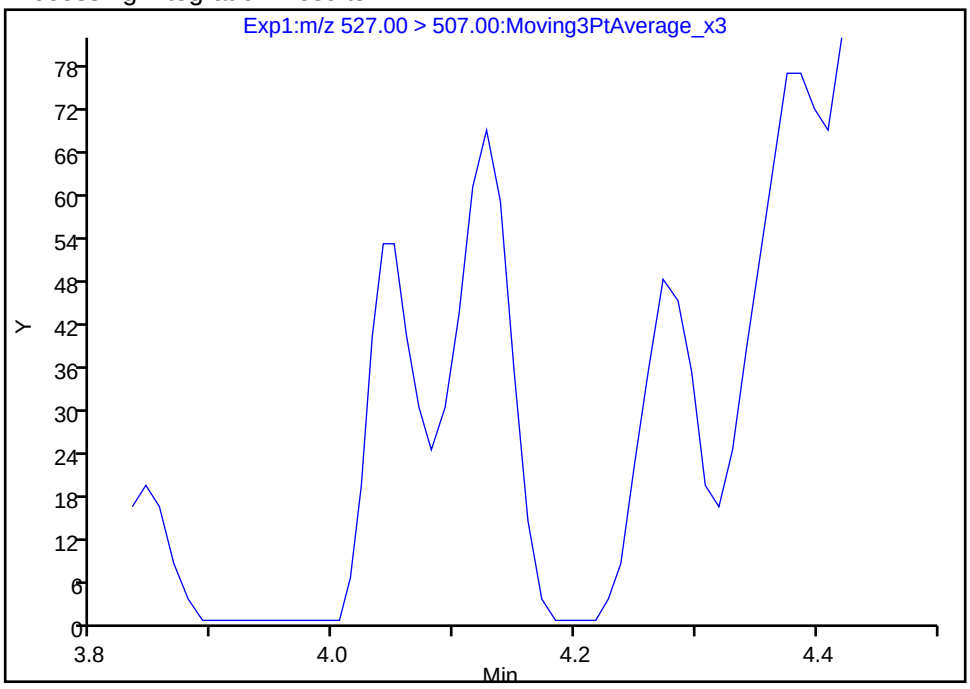
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

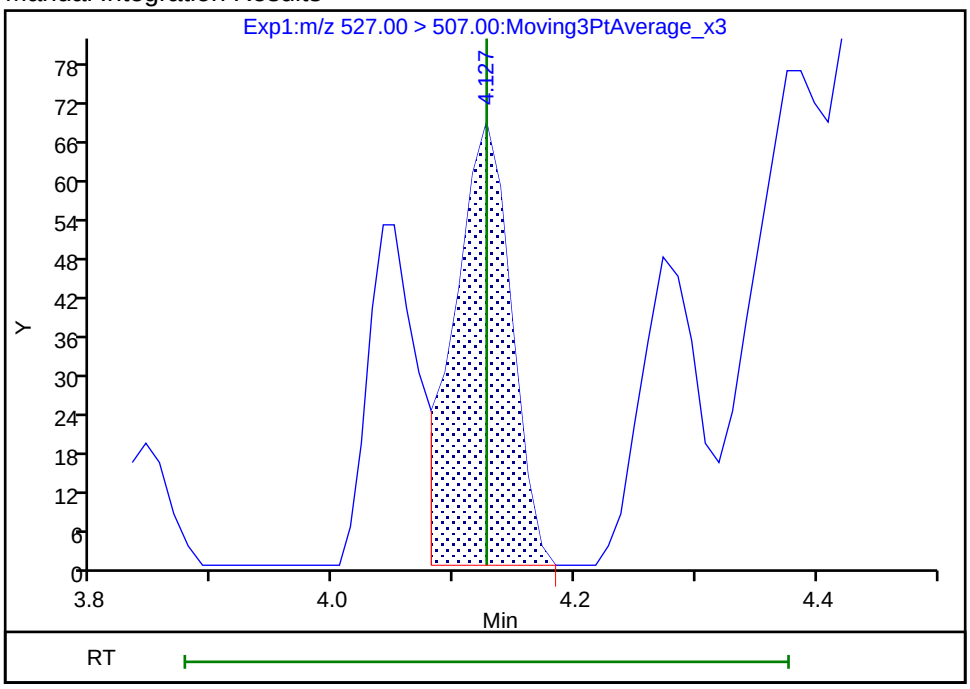
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.13
Area: 223
Amount: 0.000818
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:52:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

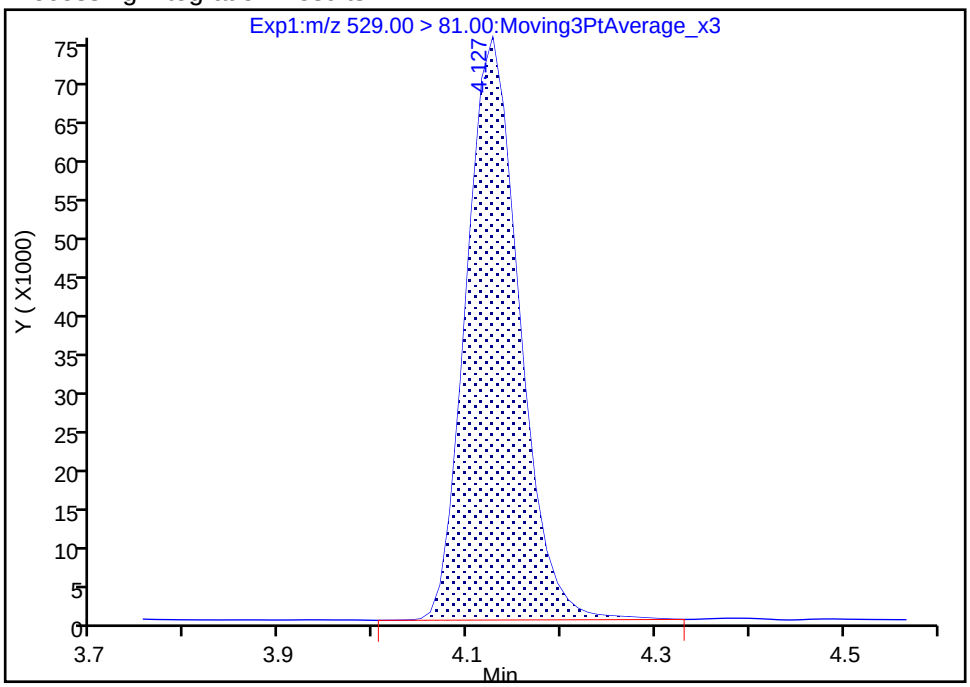
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 26 M2-8:2 FTS, CAS: STL02280

Signal: 1

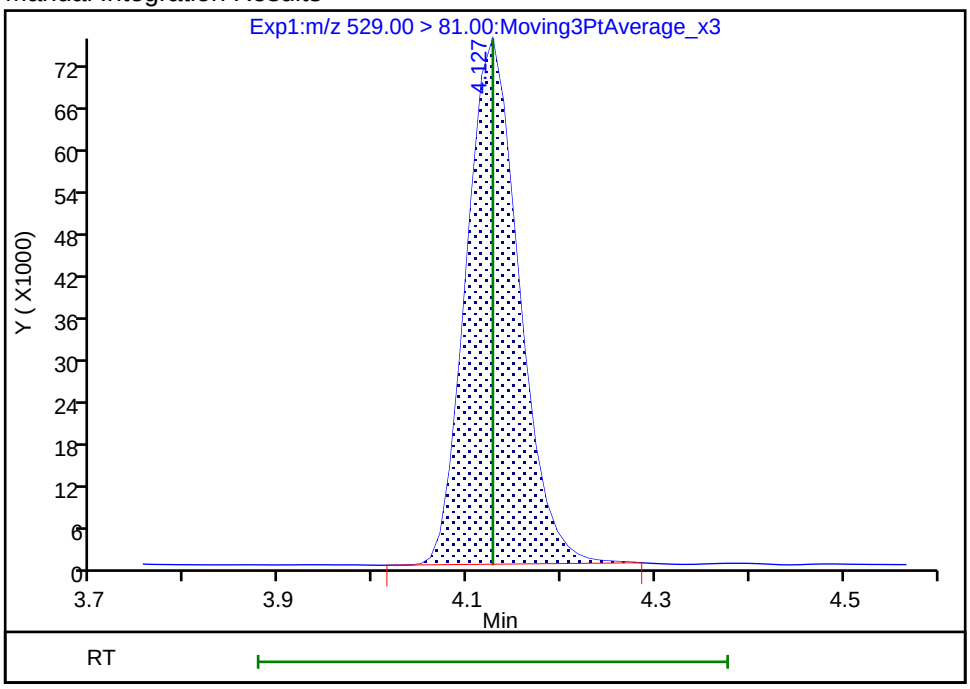
Processing Integration Results

RT: 4.13
Area: 295625
Amount: 1.138039
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 293321
Amount: 1.129170
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:05:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

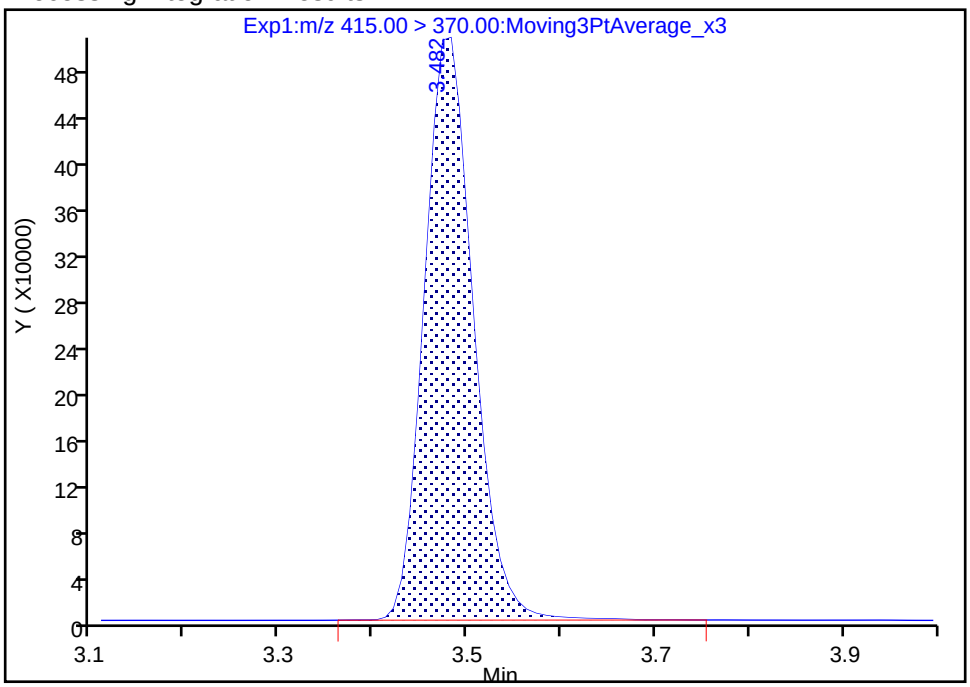
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A20.d				
Injection Date:	13-Jun-2022 19:44:19	Instrument ID:	LC812		
Lims ID:	480-198818-C-3-A	Lab Sample ID:	200-198818-3		
Client ID:	MW-2B				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

* 62 13C2 PFOA, CAS: STL00623

Signal: 1

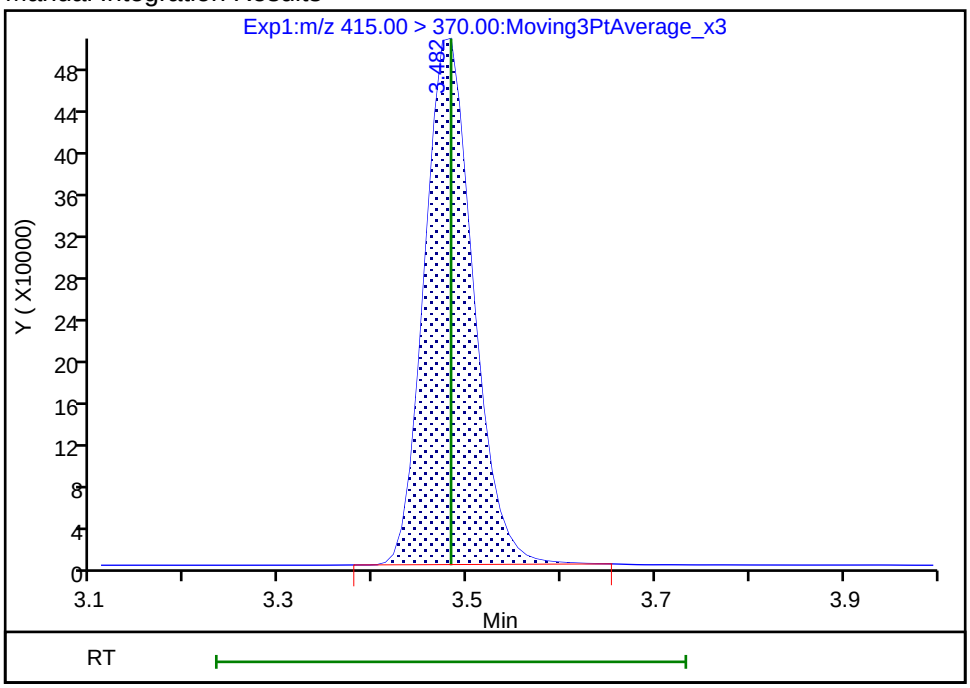
Processing Integration Results

RT: 3.48
Area: 1811740
Amount: 1.250000
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 1800792
Amount: 1.250000
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:04:03

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-6A Lab Sample ID: 480-198818-4

Matrix: Water Lab File ID: PA220613A21.d

Analysis Method: 537 (modified) Date Collected: 06/08/2022 11:55

Extraction Method: 3535 Date Extracted: 06/13/2022 08:55

Sample wt/vol: 273.9(mL) Date Analyzed: 06/13/2022 19:52

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 180744 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
375-22-4	Perfluorobutanoic acid (PFBA)	ND		4.6	
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.8	
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.8	
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.8	
335-67-1	Perfluorooctanoic acid (PFOA)	2.6		1.8	
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.8	
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.8	
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.8	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.8	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	3.1		1.8	
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.8	
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.6	
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.6	
27619-97-2	6:2 FTS	ND		4.6	
39108-34-4	8:2 FTS	ND		1.8	

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-6A Lab Sample ID: 480-198818-4

Matrix: Water Lab File ID: PA220613A21.d

Analysis Method: 537 (modified) Date Collected: 06/08/2022 11:55

Extraction Method: 3535 Date Extracted: 06/13/2022 08:55

Sample wt/vol: 273.9(mL) Date Analyzed: 06/13/2022 19:52

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 180744 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	67		50-150
STL00992	13C4 PFBA	100		50-150
STL01893	13C5 PFPeA	101		50-150
STL00993	13C2 PFHxA	101		50-150
STL01892	13C4 PFHpA	99		50-150
STL00990	13C4 PFOA	96		50-150
STL00995	13C5 PFNA	90		50-150
STL00996	13C2 PFDA	84		50-150
STL00997	13C2 PFUnA	79		50-150
STL00998	13C2 PFDoA	72		50-150
STL02116	13C2 PFTeDA	56		50-150
STL02337	13C3 PFBS	88		50-150
STL00994	18O2 PFHxS	89		50-150
STL00991	13C4 PFOS	79		50-150
STL02118	d3-NMeFOSAA	103		50-150
STL02117	d5-NEtFOSAA	104		50-150
STL02279	M2-6:2 FTS	91		50-150
STL02280	M2-8:2 FTS	84		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d
Lims ID: 480-198818-C-4-A
Client ID: MW-6A
Sample Type: Client
Inject. Date: 13-Jun-2022 19:52:29 ALS Bottle#: 18 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-198818-C-4-A
Misc. Info.: 200-0051257-021 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 14-Jun-2022 14:35:47 Calib Date: 05-May-2022 15:54:29
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1636

First Level Reviewer: khanphomeea Date: 14-Jun-2022 11:58:10
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	2.085	2.085	0.0	0.599	1887165	1.25		100	6469	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.093	-0.008	1.000	92635	0.0650			9.4	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.400	0.0	0.689	1454838	1.27		101	1823	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.400	2.400	0.0	1.000	21753	0.0183			0.4	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.413	2.427	-0.014	0.693	1706417	1.02		88.1	95383	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.413	2.427	-0.014	1.000	24602	0.0154	Target=2.15		5.8	
298.90 > 99.00	2.413	2.427	-0.014	1.000	9938		2.48(1.07-3.22)		2.2	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.750	2.762	-0.012	0.790	1481784	1.26		101	3159	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.750	2.762	-0.012	1.000	27376	0.0214	Target=12.59		2.6	
313.00 > 119.00	2.750	2.762	-0.012	1.000	2025		13.52(6.29-18.88)		2.2	
D 11 18O2 PFHxS										M
403.00 > 84.00	3.121	3.121	0.0	0.896	1371645	1.05		89.0	2366	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.121	3.121	0.0	1.000	14975	0.0117	Target=3.53		10.4	M
399.00 > 99.00	3.121	3.121	0.0	1.000	3324		4.51(1.76-5.29)		2.5	M
D 9 13C4 PFHpA										M
367.00 > 322.00	3.121	3.132	-0.011	0.896	1571643	1.24		99.1	1937	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.132	3.132	0.0	1.004	31452	0.0248	Target=3.75		4.5	M
363.00 > 169.00	3.121	3.132	-0.011	1.000	8063		3.90(1.87-5.62)		10.6	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Perfluoroheptanesulfonic acid										RM
449.00 > 80.00	3.456	3.474	-0.018	0.909	965	0.000996	Target=4.90		2.8	RM
449.00 > 99.00	3.482	3.474	0.008	0.916	411		2.35(2.45-7.35)		0.8	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.474	3.474	0.0	0.998	231025	1.09		91.5	301	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.465	3.474	-0.009	0.997	2582	-0.0188			1.8	M
* 62 13C2 PFOA										
415.00 > 370.00	3.482	3.482	0.0		1770868	1.25			4079	
D 14 13C4 PFOA										M
417.00 > 372.00	3.482	3.482	0.0	1.000	1595037	1.20		95.7	1845	M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.482	3.482	0.0	1.000	102299	0.0716	Target=2.68		7.3	M
413.00 > 169.00	3.482	3.482	0.0	1.000	42834		2.39(1.34-4.02)		79.2	M
D 18 13C4 PFOS										M
503.00 > 80.00	3.802	3.802	0.0	1.092	963595	0.9408		78.7	2114	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.802	3.802	0.0	1.000	72067	0.0837	Target=4.47		59.8	M
499.00 > 99.00	3.802	3.802	0.0	1.000	17540		4.11(2.24-6.71)		11.3	M
D 19 13C5 PFNA										
468.00 > 423.00	3.822	3.822	0.0	1.098	1638411	1.13		90.4	3073	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.822	3.822	0.0	1.000	10518	0.008297	Target=7.74		2.3	M
463.00 > 169.00	3.812	3.822	-0.010	0.997	1353		7.77(3.87-11.61)		11.9	M
D 23 13C2 PFDA										M
515.00 > 470.00	4.127	4.127	0.0	1.185	1457036	1.04		83.5	2528	M
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.127	4.127	0.0	1.000	3712	0.002989	Target=9.31		1.5	M
513.00 > 169.00	4.116	4.127	-0.011	0.997	310		11.97(4.65-13.96)		1.4	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.093	4.127	-0.034	0.992	48	0.000200			1.7	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.127	4.127	0.0	1.185	258209	1.01		84.4	524	
D 21 13C8 FOSA										M
506.00 > 78.00	4.184	4.195	-0.011	1.202	1289900	0.8402		67.2	2126	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.184	4.195	-0.011	1.000	14552	0.0139			20.0	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.261	4.261	0.0	1.224	238331	1.29		103	954	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.250	4.273	-0.023	0.997	291	0.001678			1.3	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.387	4.365	0.022	1.154	261	0.000525	Target=2.56		3.0	M
599.00 > 99.00	4.353	4.365	-0.012	1.145	137		1.91(1.28-3.84)		1.4	M
D 30 13C2 PFUnA										M
565.00 > 520.00	4.387	4.387	0.0	1.260	1105922	0.9870		79.0	1775	M

Report Date: 14-Jun-2022 14:36:08 Chrom Revision: 2.3 18-May-2022 20:00:04
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.399	4.398	0.001	1.263	235217	1.30		104	924	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.410	4.410	0.0	1.003	8282	0.0469			93.2	M
D 36 13C2 PFDoA										M
615.00 > 570.00	4.633	4.633	0.0	1.330	1077115	0.9002		72.0	1893	M
42 Perfluorotetradecanoic acid										RM
713.00 > 169.00	5.012	5.032	-0.020	0.994	148	0.001742	Target=0.96		3.8	RM
713.00 > 219.00	5.032	5.032	0.0	0.998	73		2.03(0.48-1.44)		2.2	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.042	5.042	0.0	1.448	687133	0.7026		56.2	2158	

QC Flag Legend

Processing Flags
R - Failed Signal Ratio Test
Review Flags
M - Manually Integrated

Report Date: 14-Jun-2022 14:36:08 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d

Injection Date: 13-Jun-2022 19:52:29 Instrument ID: LC812

Lims ID: 480-198818-C-4-A Lab Sample ID: 200-198818-4

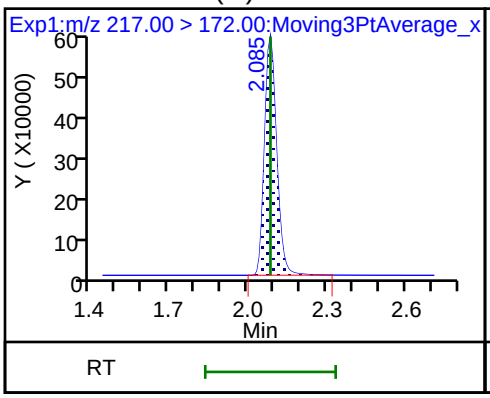
Client ID: MW-6A

Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 21

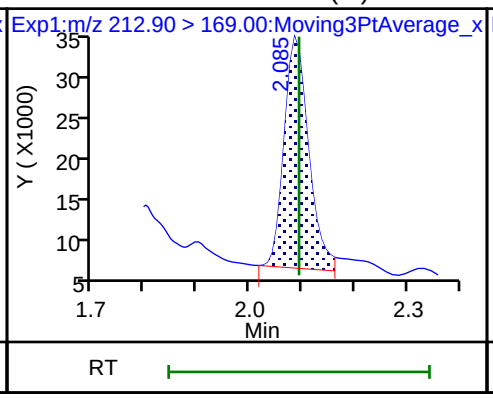
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

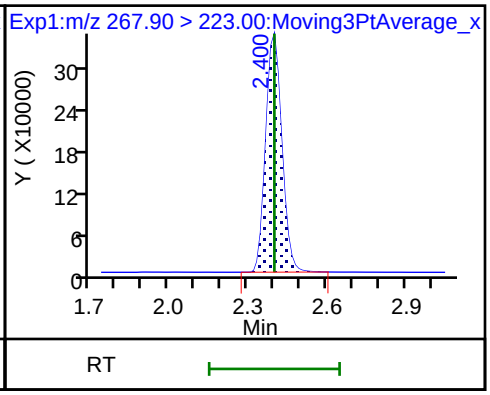
D 1 13C4 PFBA (M)



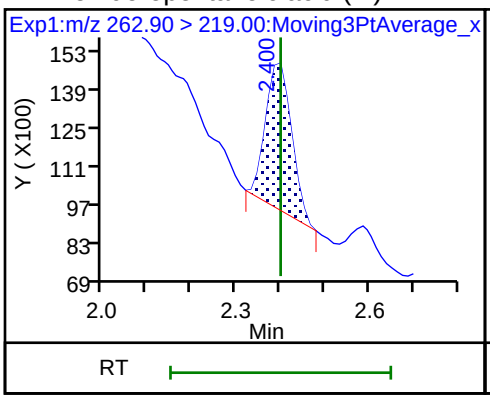
2 Perfluorobutanoic acid (M)



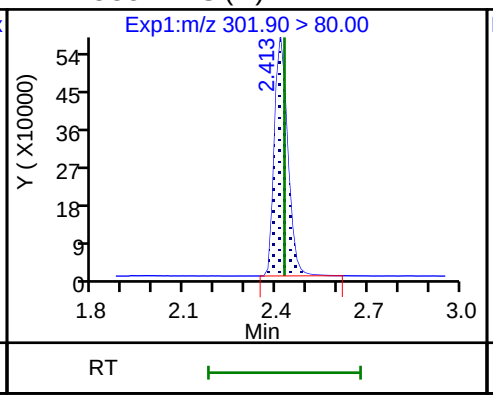
D 3 13C5 PFPeA



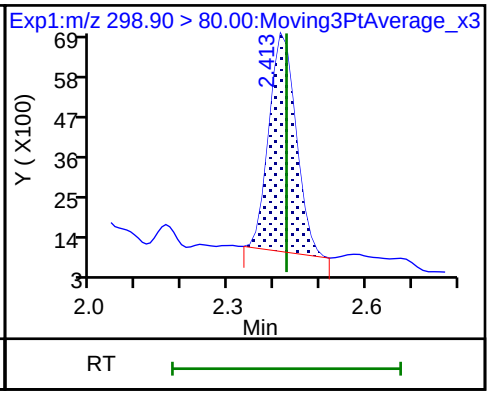
4 Perfluoropentanoic acid (M)



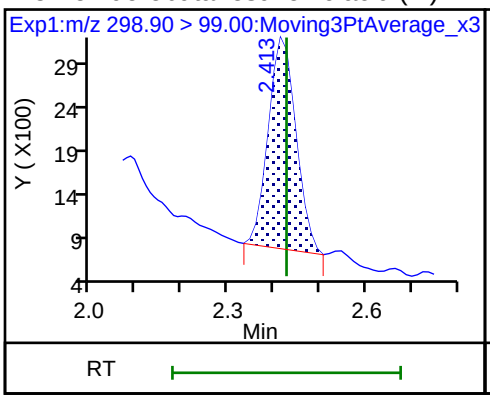
D 47 13C3 PFBS (M)



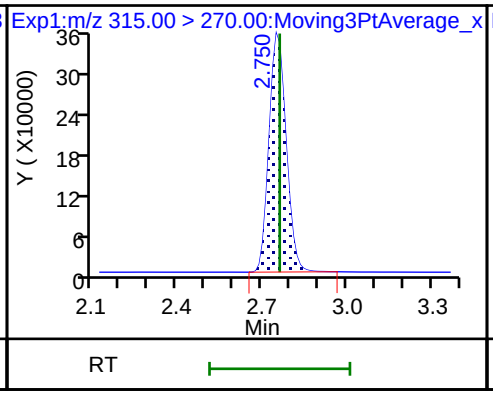
5 Perfluorobutanesulfonic acid



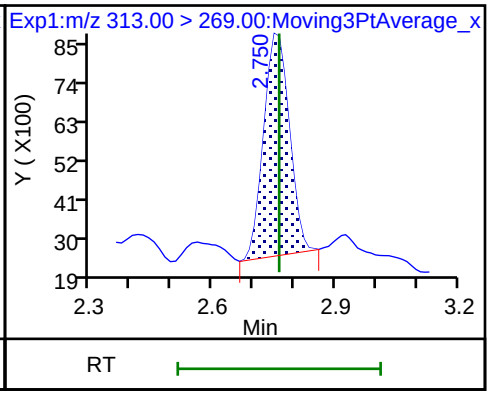
5 Perfluorobutanesulfonic acid (M)



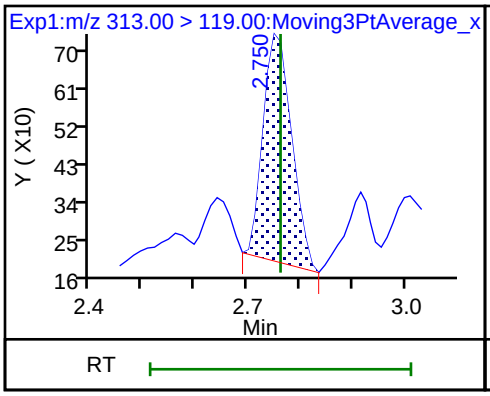
D 7 13C2 PFHxA



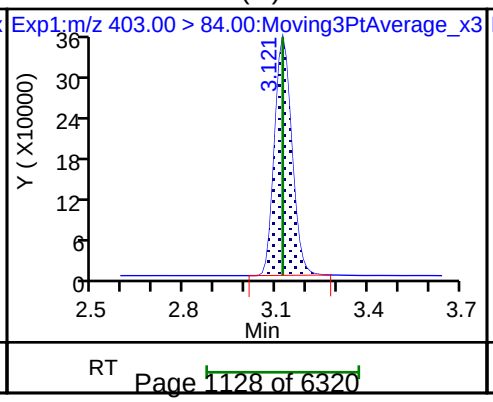
6 Perfluorohexanoic acid



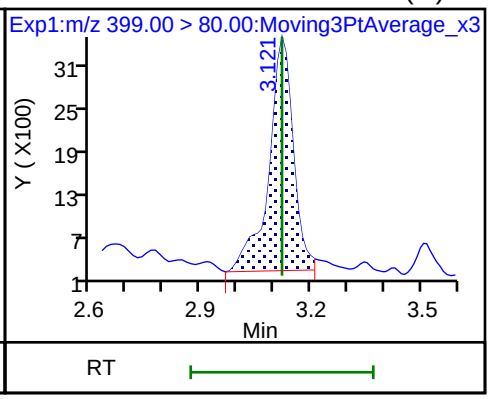
6 Perfluorohexanoic acid



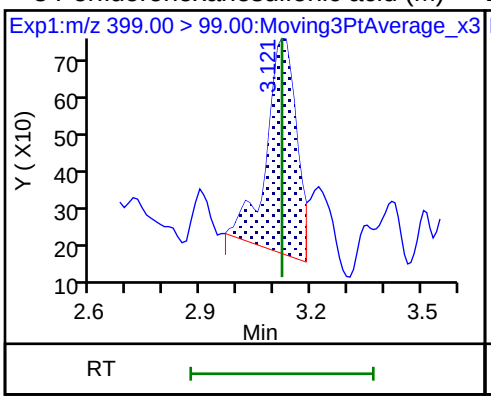
D 11 18O2 PFHxS (M)



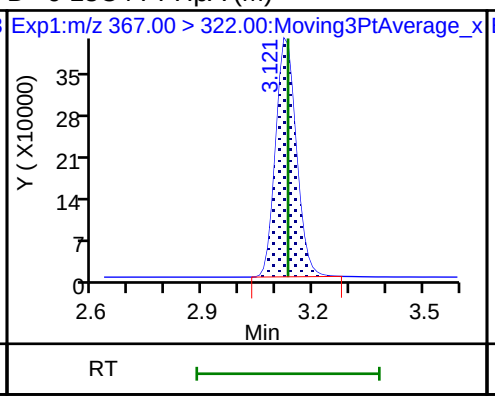
8 Perfluorohexanesulfonic acid (M)



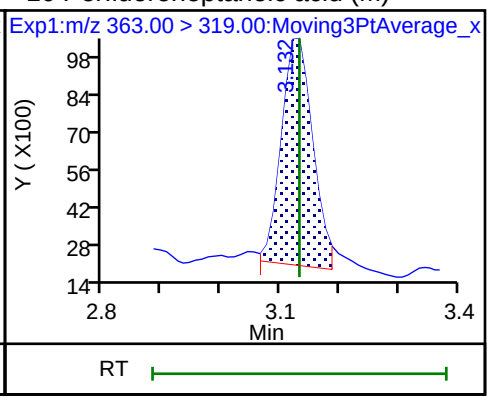
8 Perfluorohexanesulfonic acid (M)



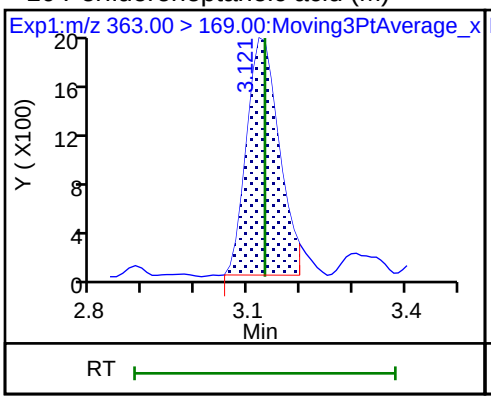
D 9 13C4 PFHpA (M)



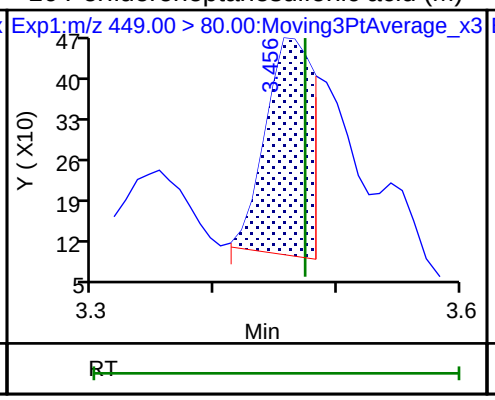
10 Perfluoroheptanoic acid (M)



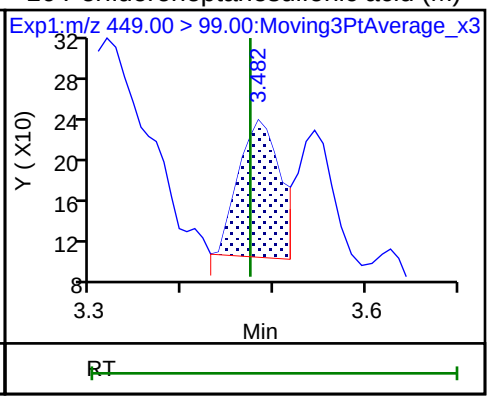
10 Perfluoroheptanoic acid (M)



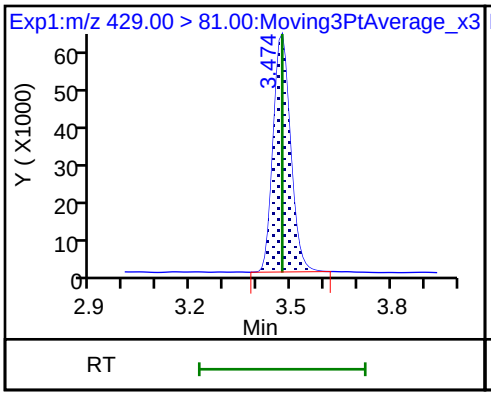
16 Perfluoroheptanesulfonic acid (M)



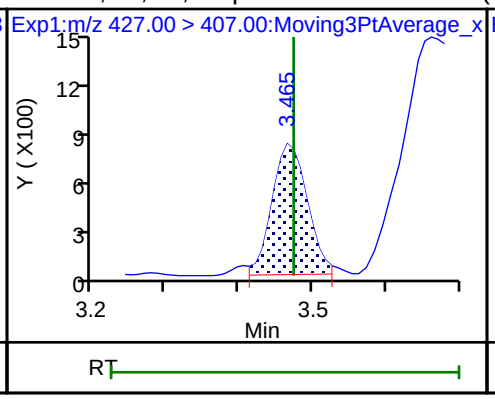
16 Perfluoroheptanesulfonic acid (M)



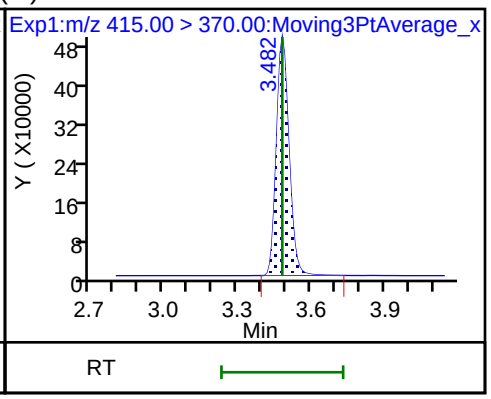
D 12 M2-6:2 FTS



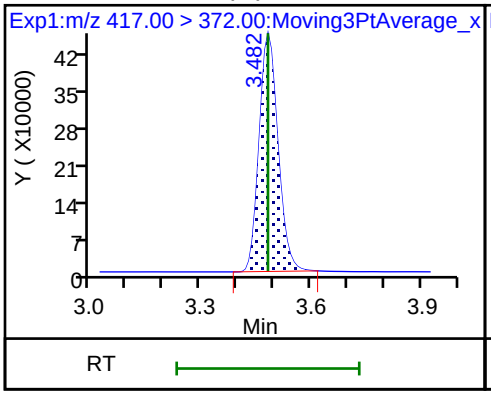
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



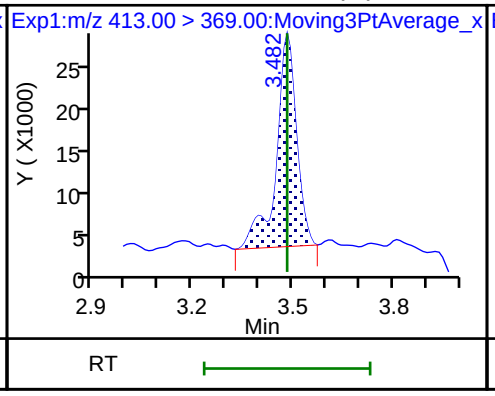
M2 13C2 PFOA



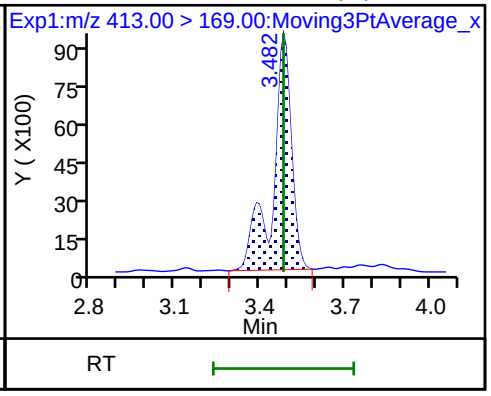
D 14 13C4 PFOA (M)



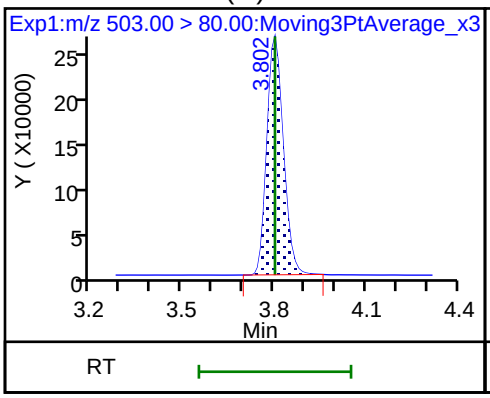
15 Perfluorooctanoic acid (M)



15 Perfluorooctanoic acid (M)



D 18 13C4 PFOS (M)



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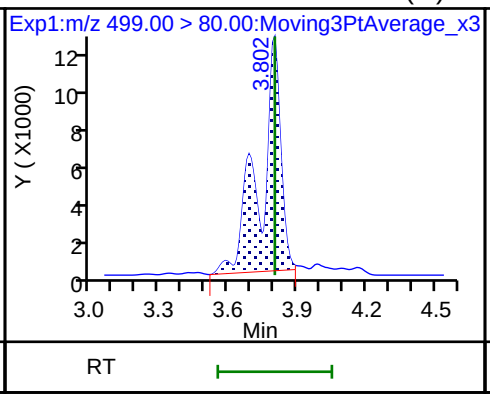
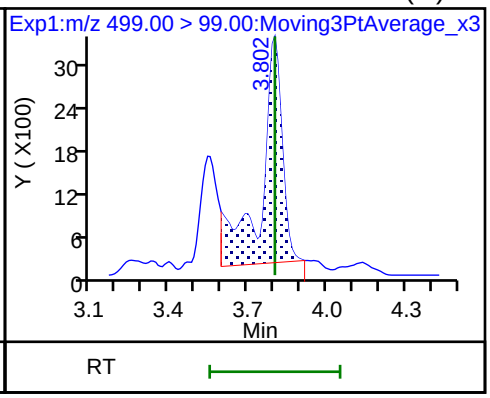
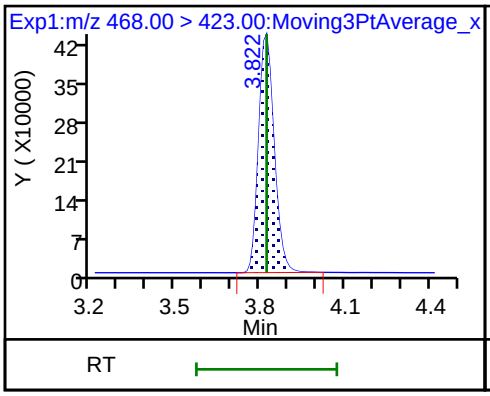


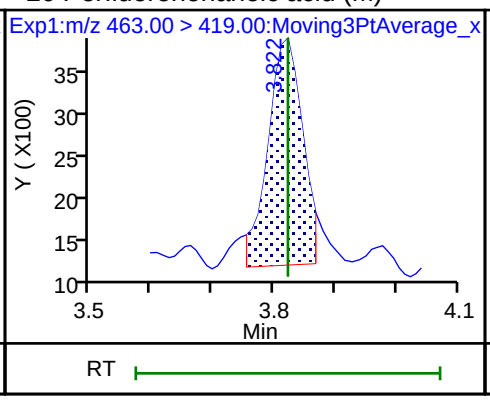
17 Perfluorooctanesulfonic acid (M)



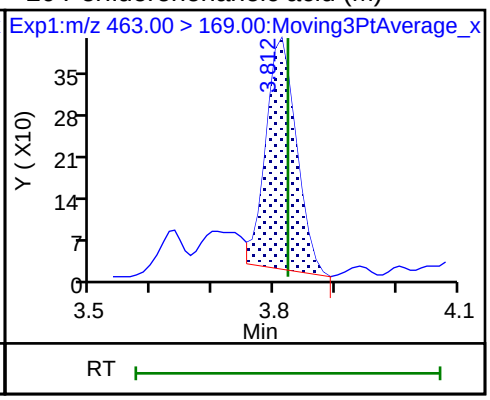
D 19 13C5 PFNA



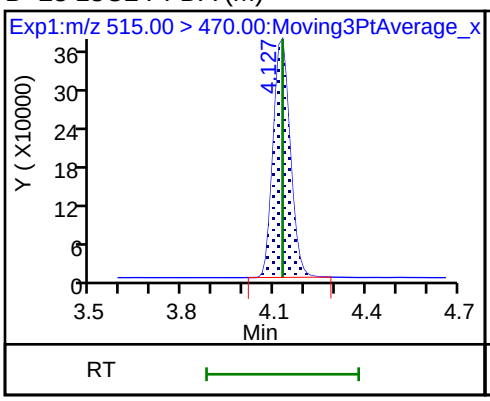
20 Perfluorononanoic acid (M)



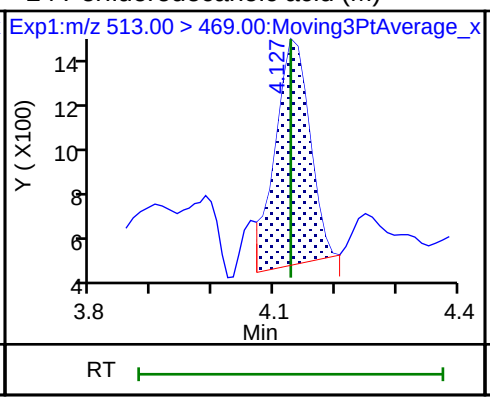
20 Perfluorononanoic acid (M)



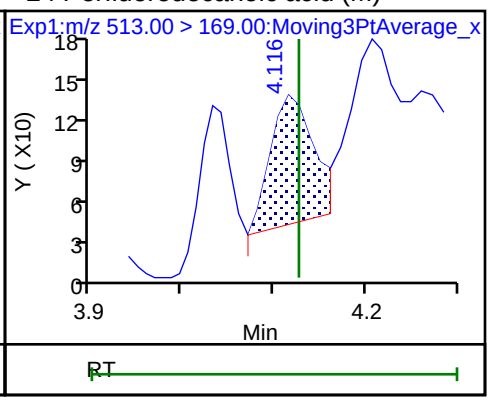
D 23 13C2 PFDA (M)



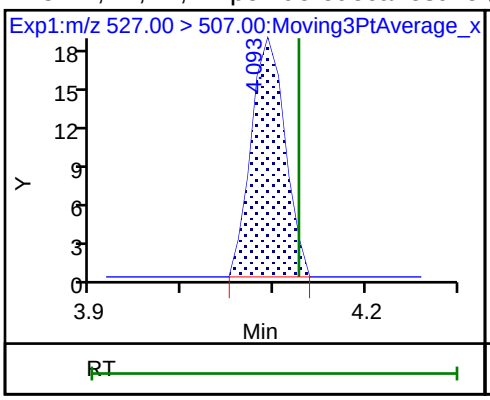
24 Perfluorodecanoic acid (M)



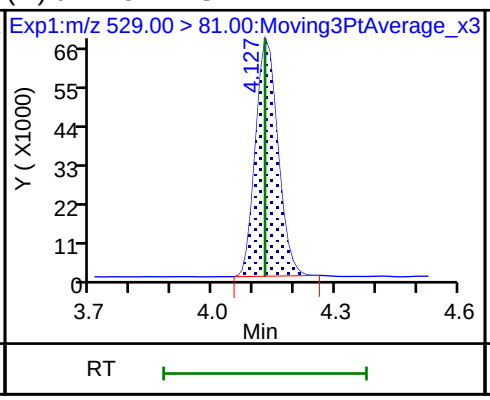
24 Perfluorodecanoic acid (M)



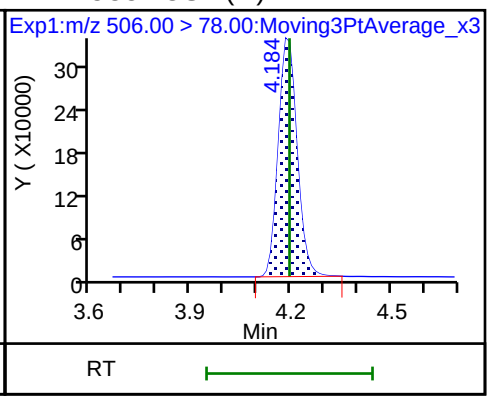
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



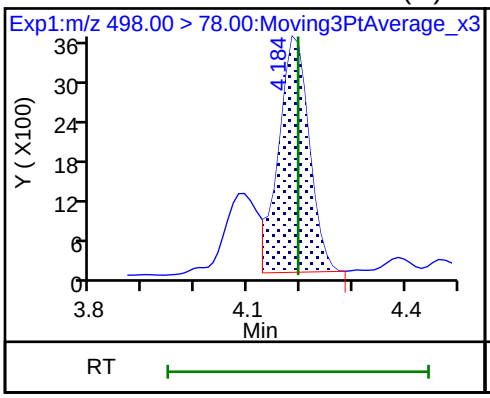
D 26 M2-8:2 FTS



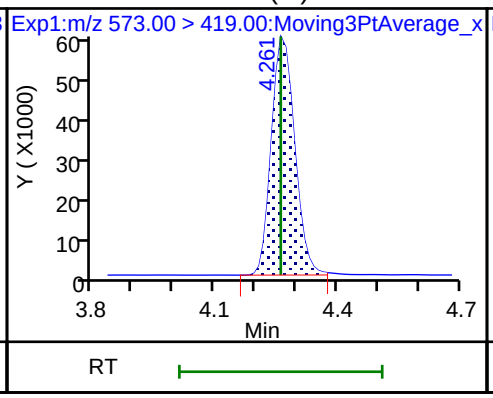
D 21 13C8 FOSA (M)



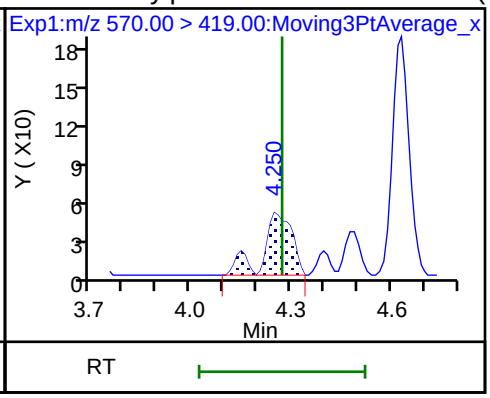
22 Perfluorooctanesulfonamide (M)



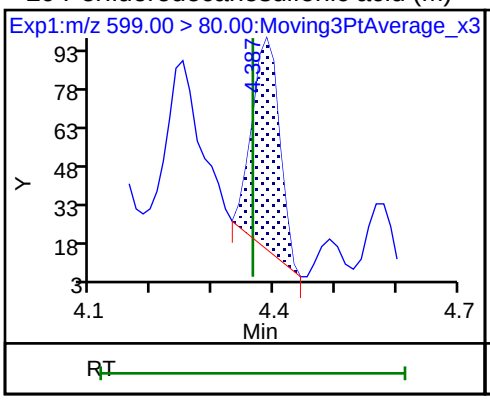
D 27 d3-NMeFOSAA (M)



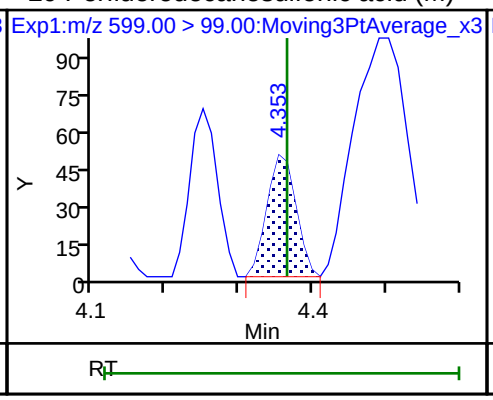
28 N-methylperfluorooctanesulfonami (M)



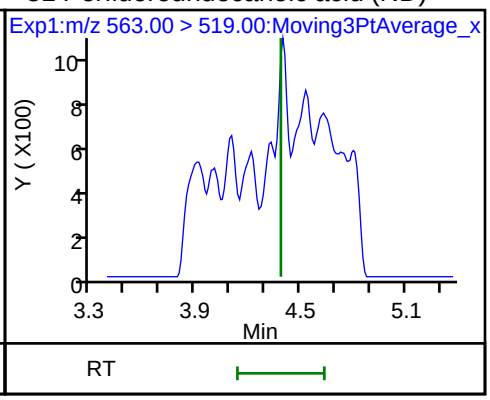
29 Perfluorodecanesulfonic acid (M)



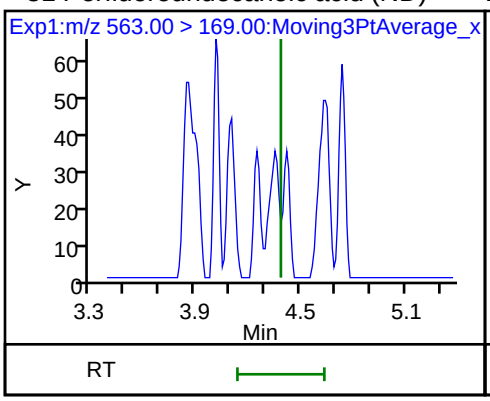
29 Perfluorodecanesulfonic acid (M)



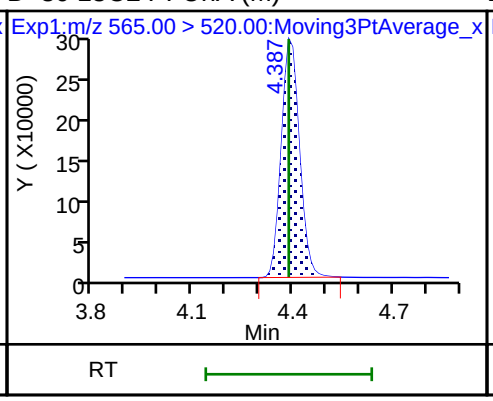
31 Perfluoroundecanoic acid (ND)



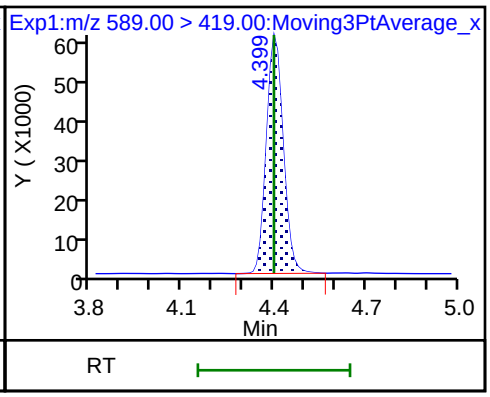
31 Perfluoroundecanoic acid (ND)



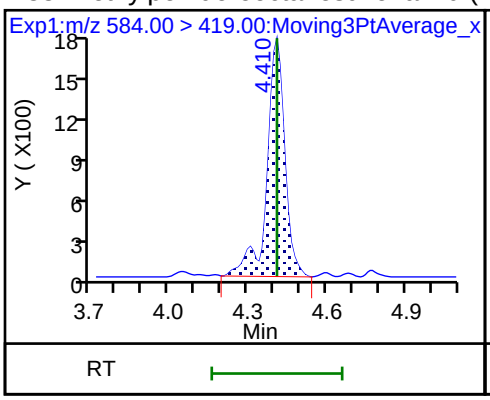
D 30 13C2 PFUnA (M)



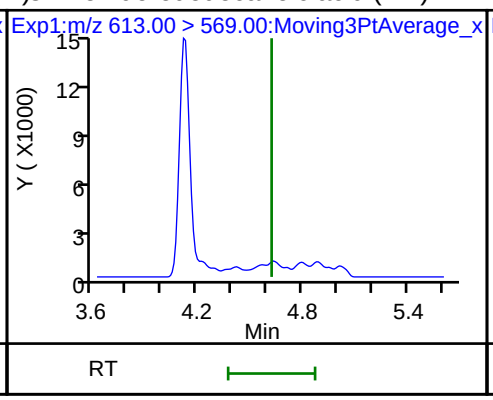
D 32 d5-NEtFOSAA



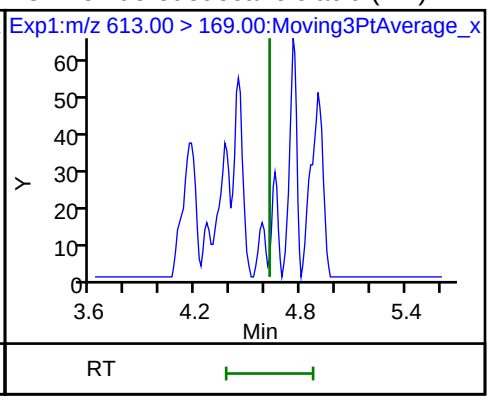
33 N-ethylperfluorooctanesulfonamid (M)



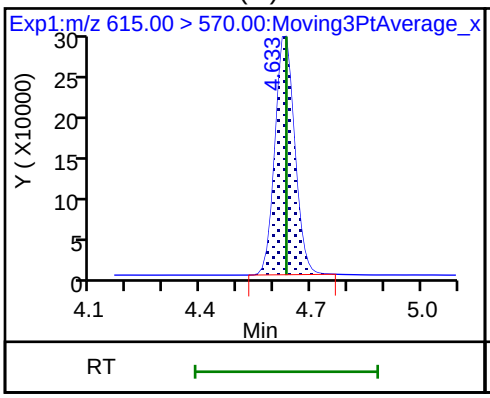
37 Perfluorododecanoic acid (ND)



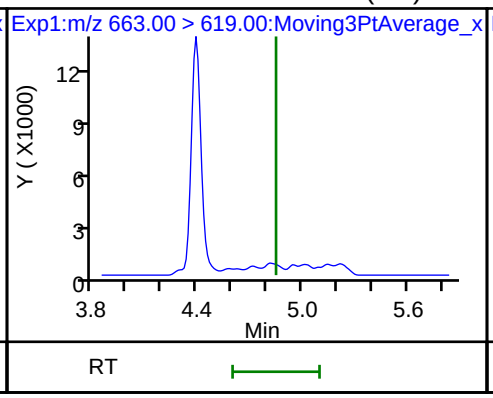
37 Perfluorododecanoic acid (ND)



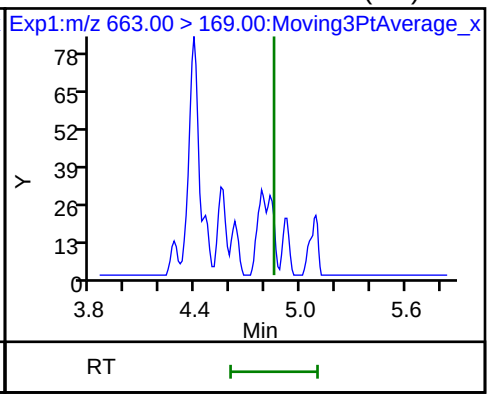
D 36 13C2 PFDoA (M)



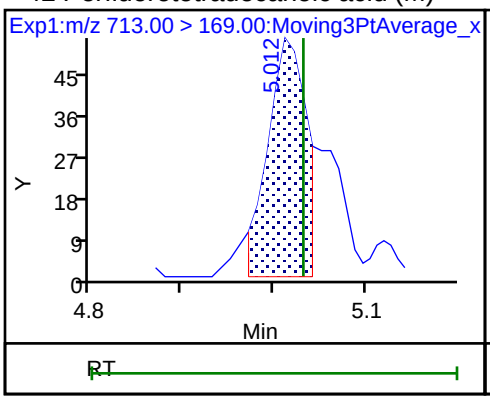
41 Perfluorotridecanoic acid (ND)



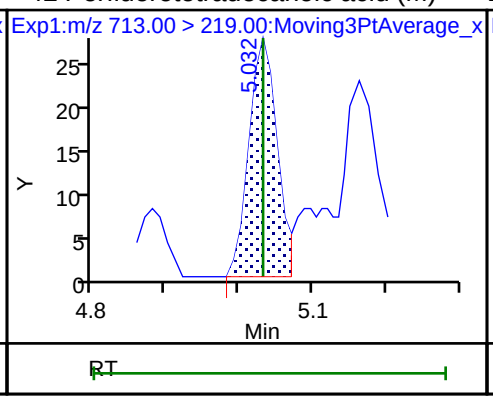
41 Perfluorotridecanoic acid (ND)



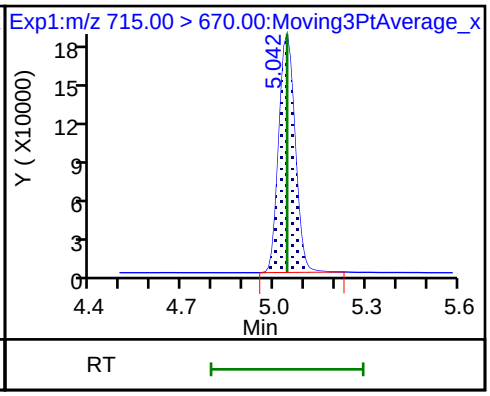
42 Perfluorotetradecanoic acid (M)



42 Perfluorotetradecanoic acid (M)



D 43 13C2 PFTeDA



Manual Integration/User Assign Peak Report

Eurofins Burlington

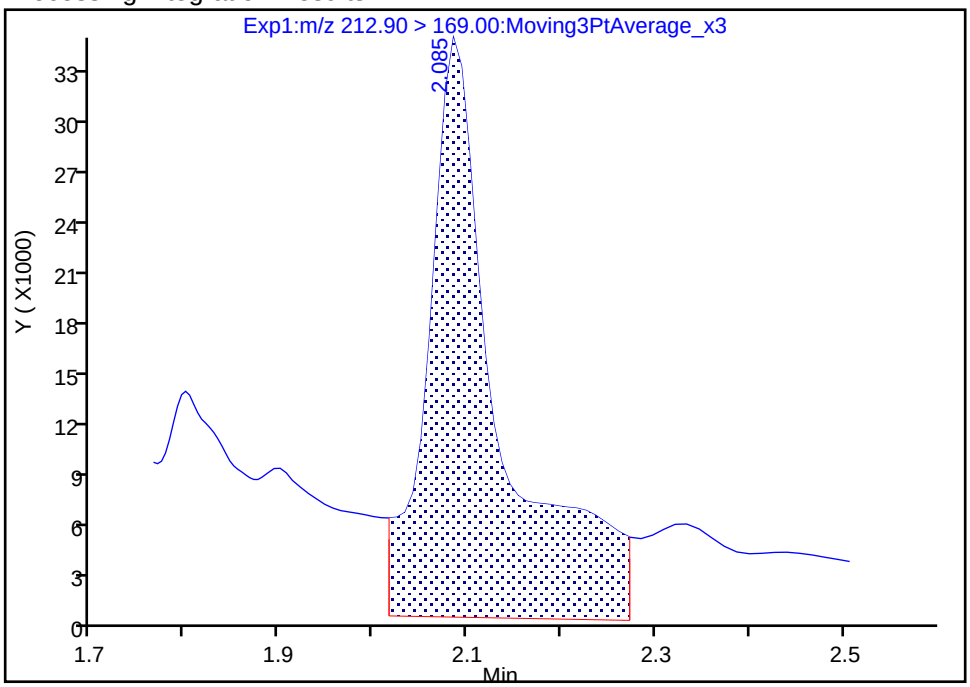
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

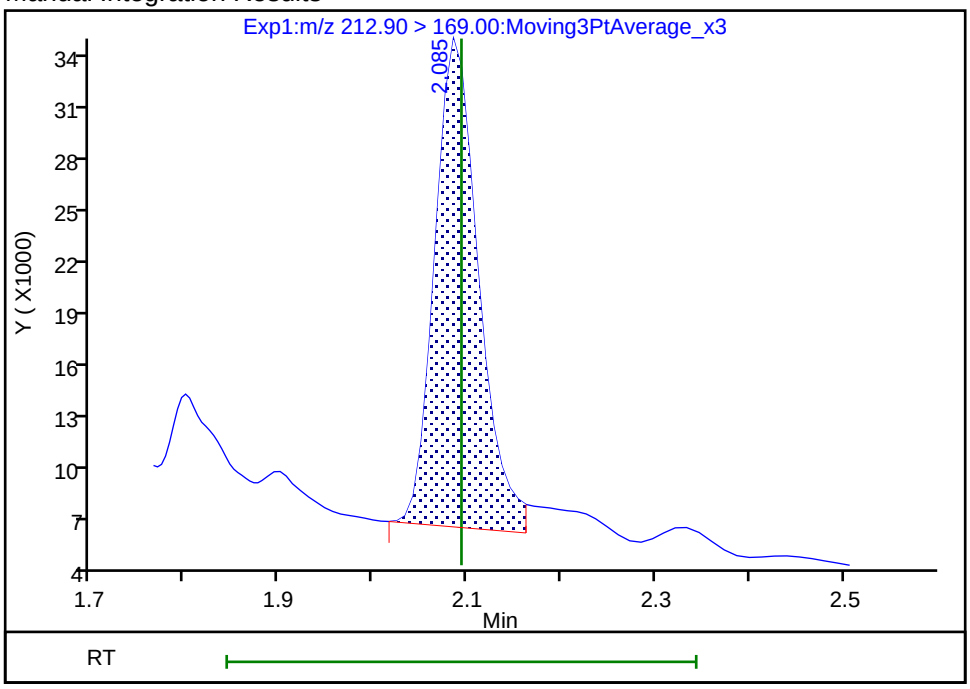
Processing Integration Results

RT: 2.08
Area: 182417
Amount: 0.127650
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 92635
Amount: 0.065019
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:53:44

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

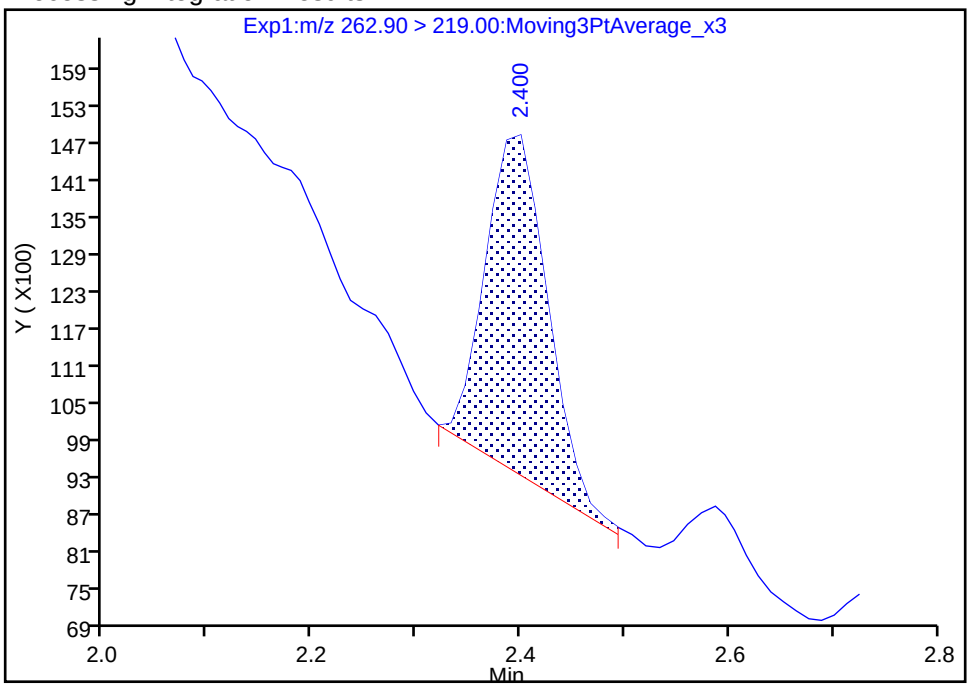
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

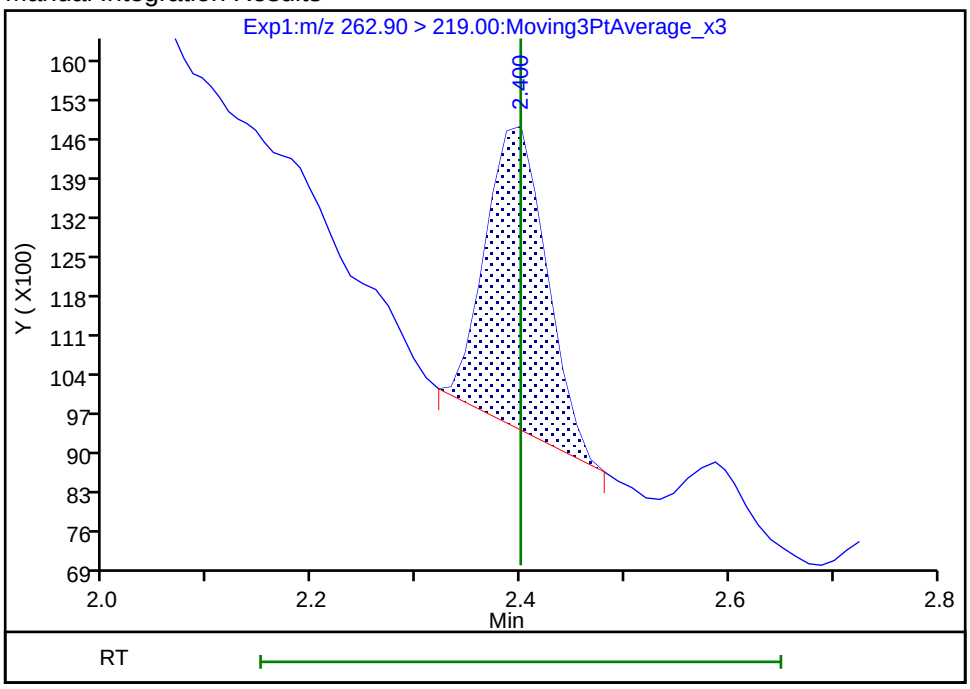
Processing Integration Results

RT: 2.40
Area: 22555
Amount: 0.019015
Amount Units: ng/ml



Manual Integration Results

RT: 2.40
Area: 21753
Amount: 0.018339
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:53:50

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

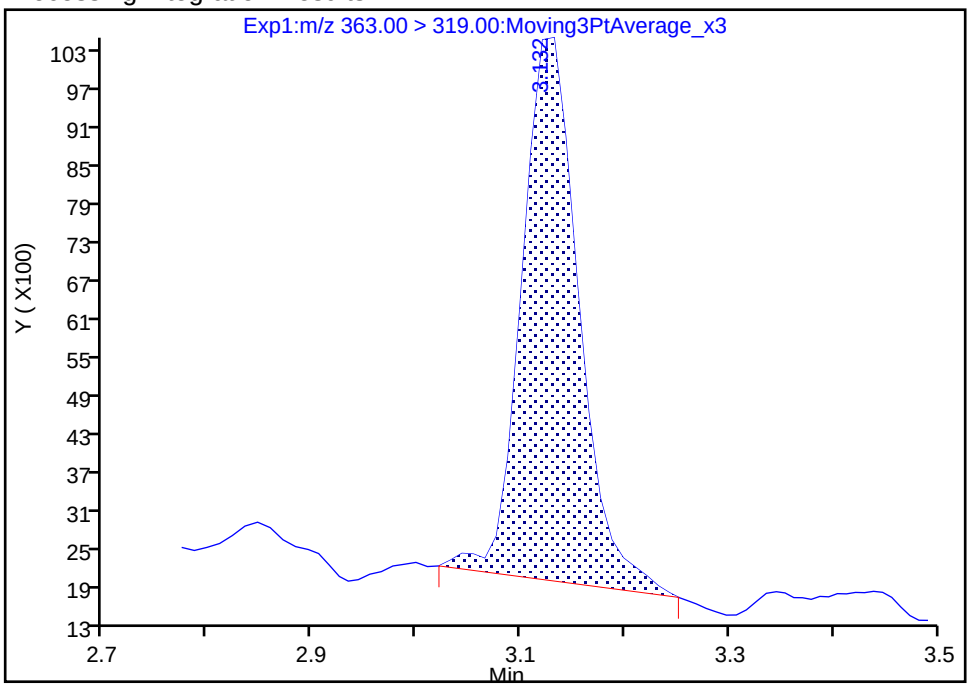
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

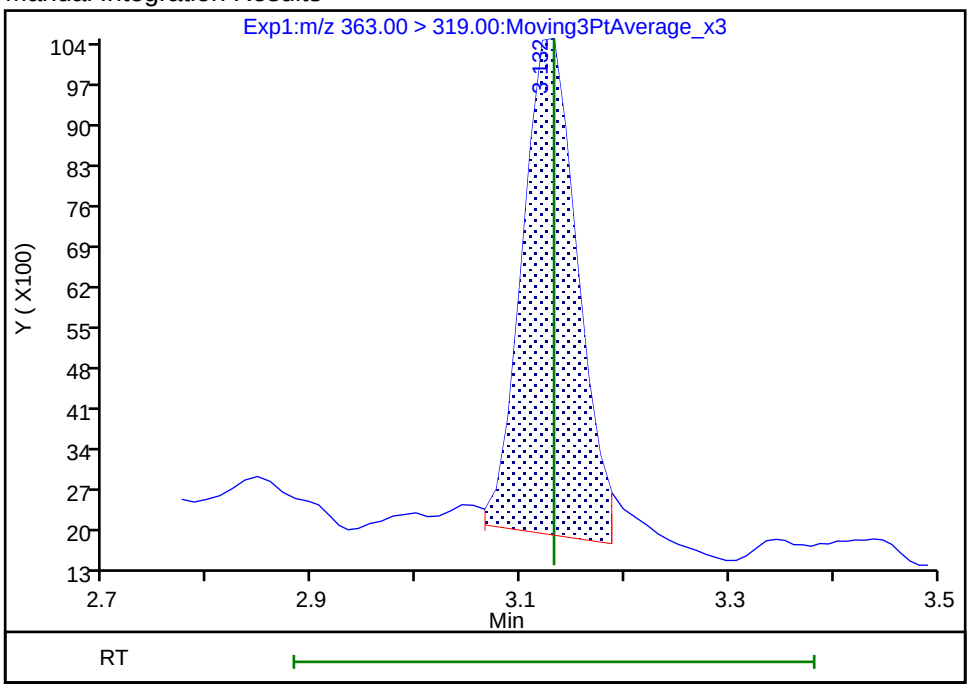
Processing Integration Results

RT: 3.13
Area: 32404
Amount: 0.025304
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 31452
Amount: 0.024754
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:55:12

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

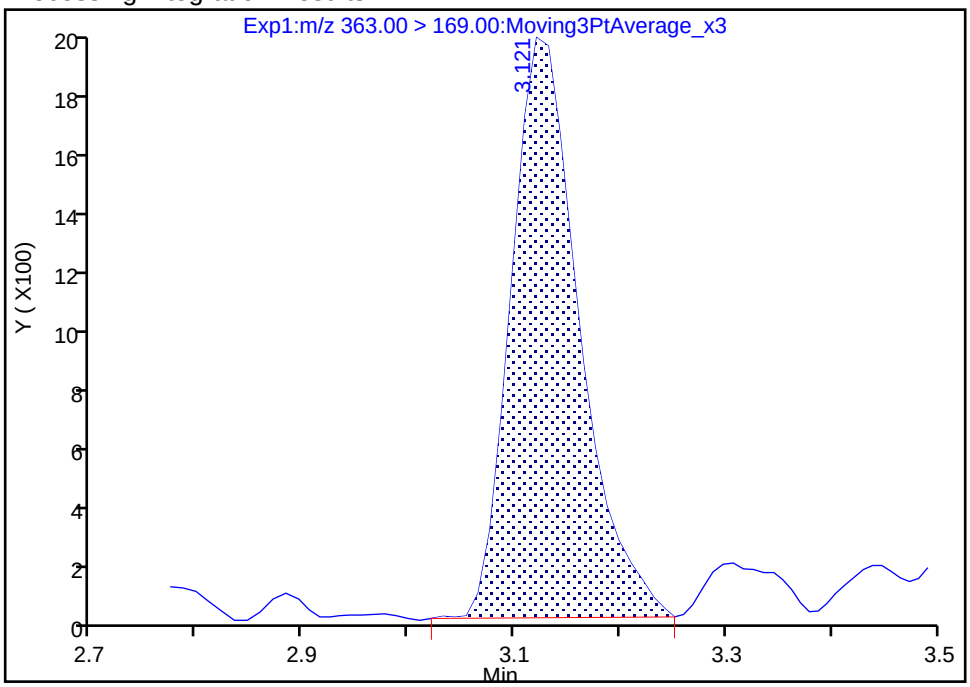
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

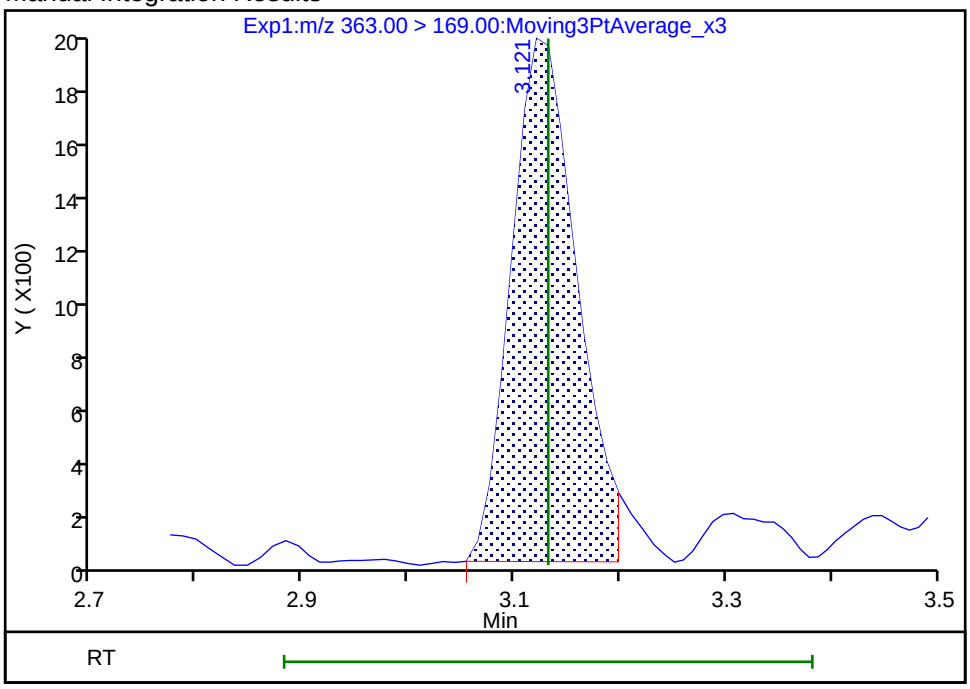
Processing Integration Results

RT: 3.12
Area: 8451
Amount: 0.025304
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 8063
Amount: 0.024754
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:55:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

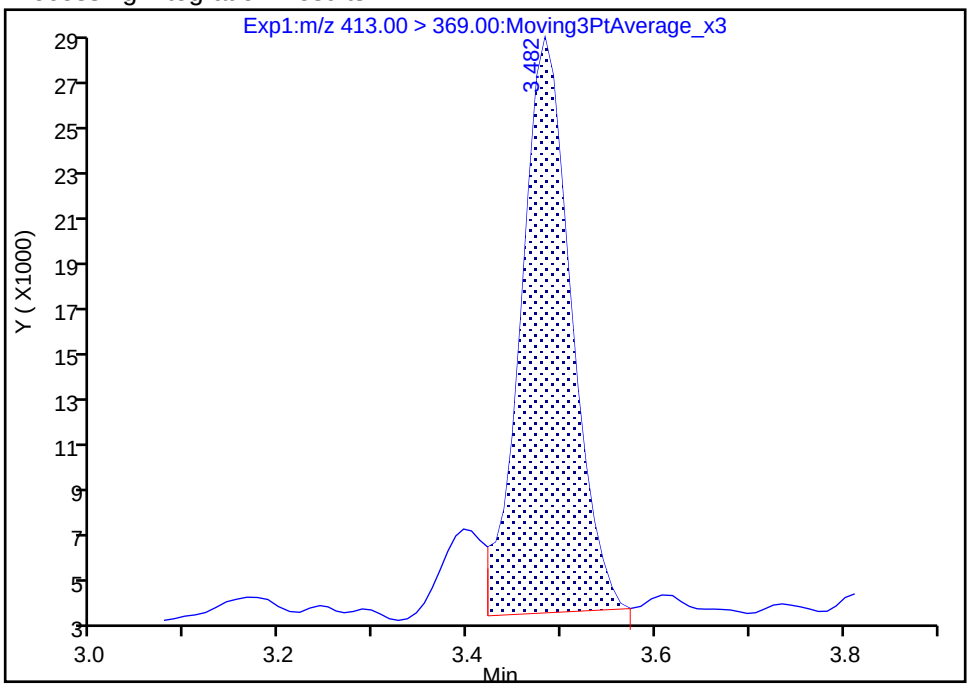
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

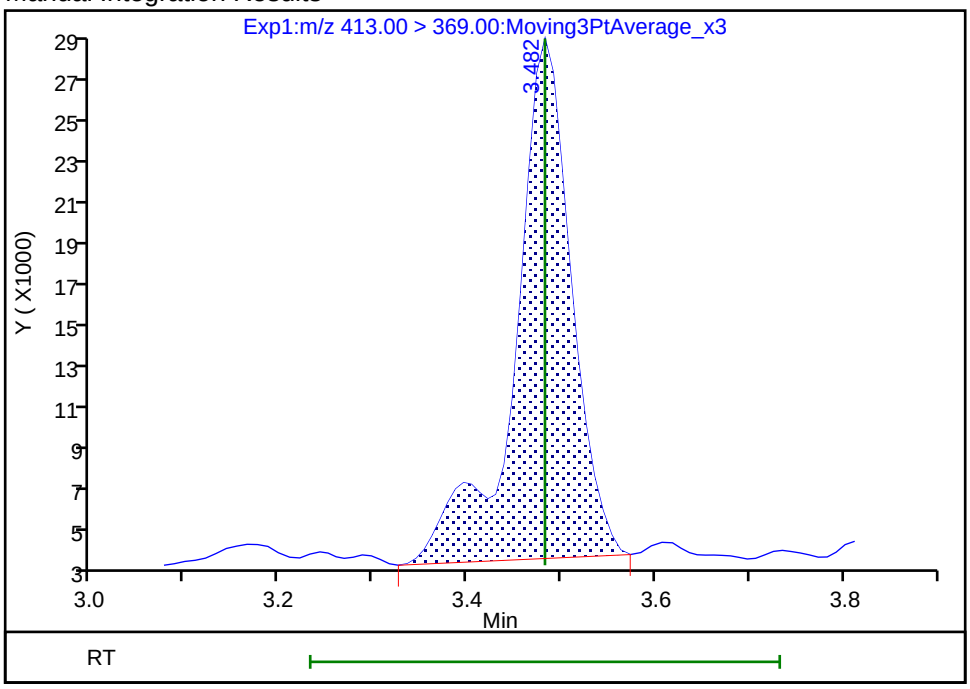
Processing Integration Results

RT: 3.48
Area: 90693
Amount: 0.062811
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 102299
Amount: 0.071583
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:55:53

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

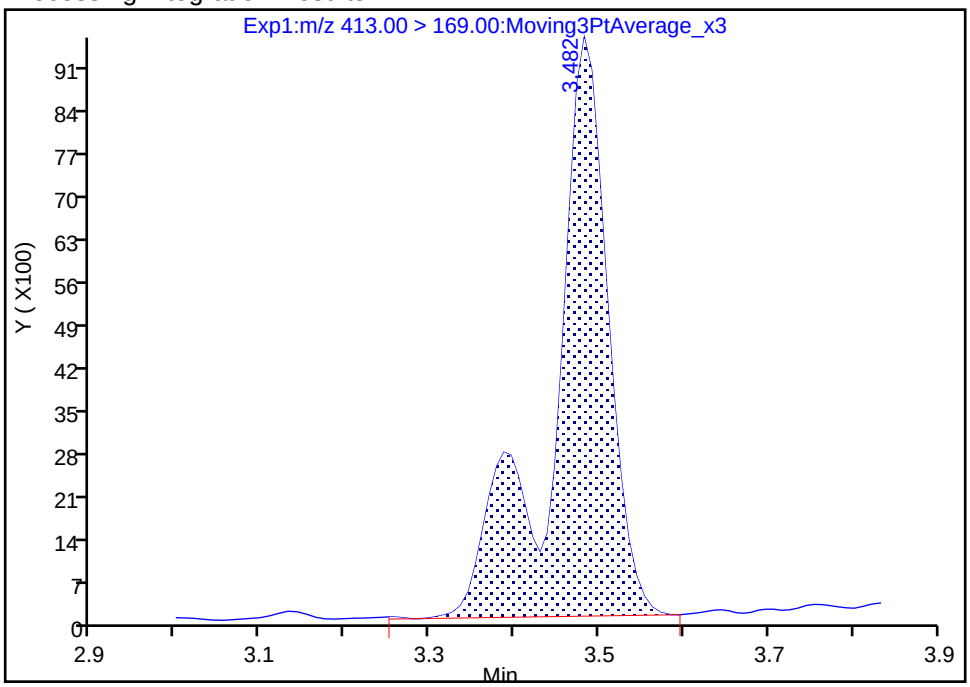
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

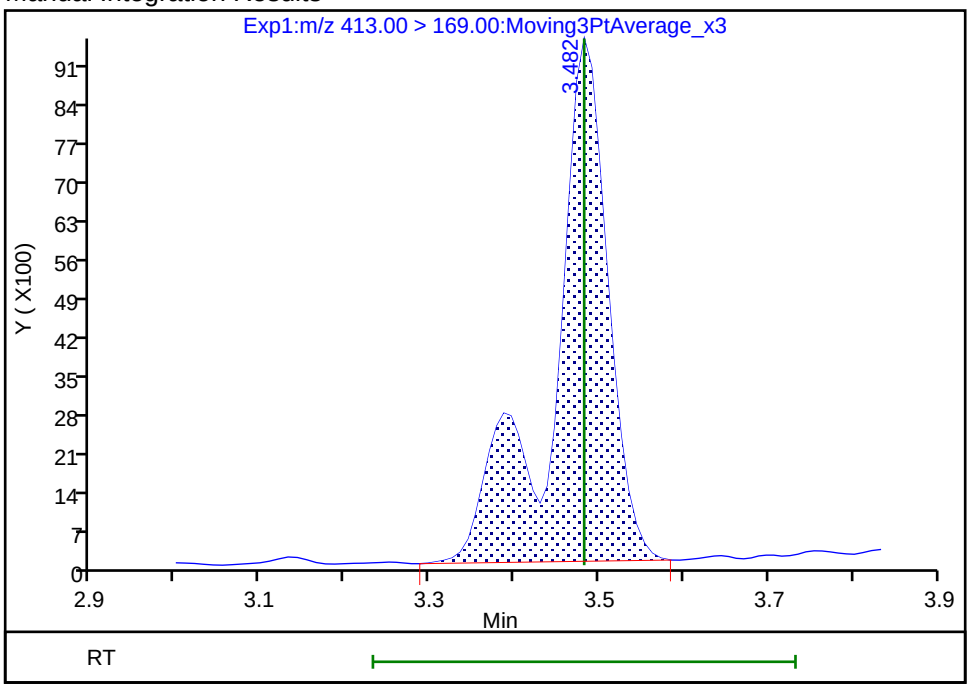
Processing Integration Results

RT: 3.48
Area: 42904
Amount: 0.062811
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 42834
Amount: 0.071583
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:55:59

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

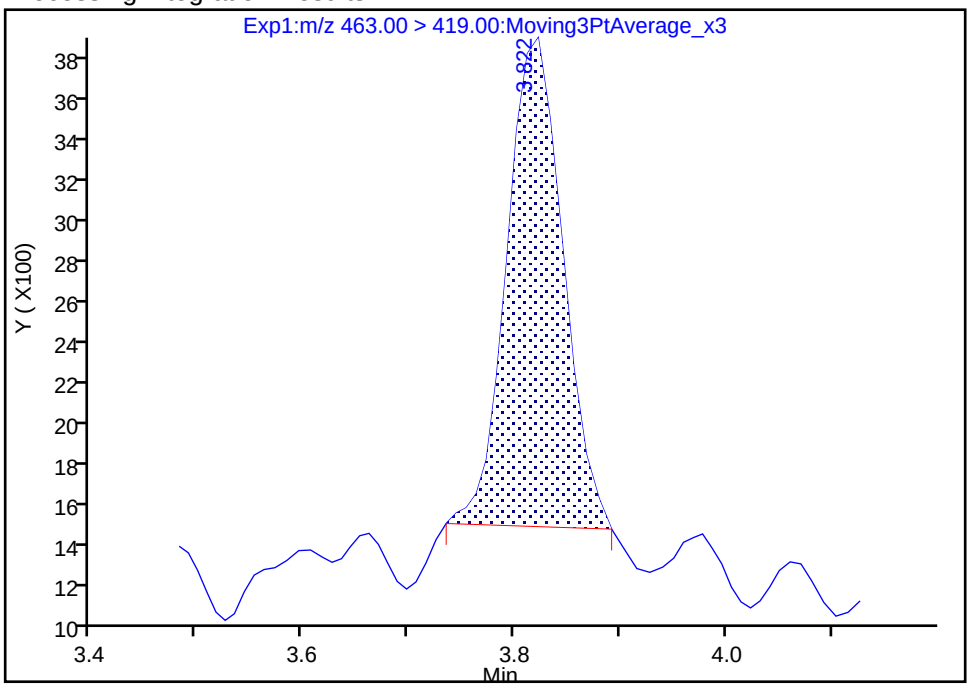
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

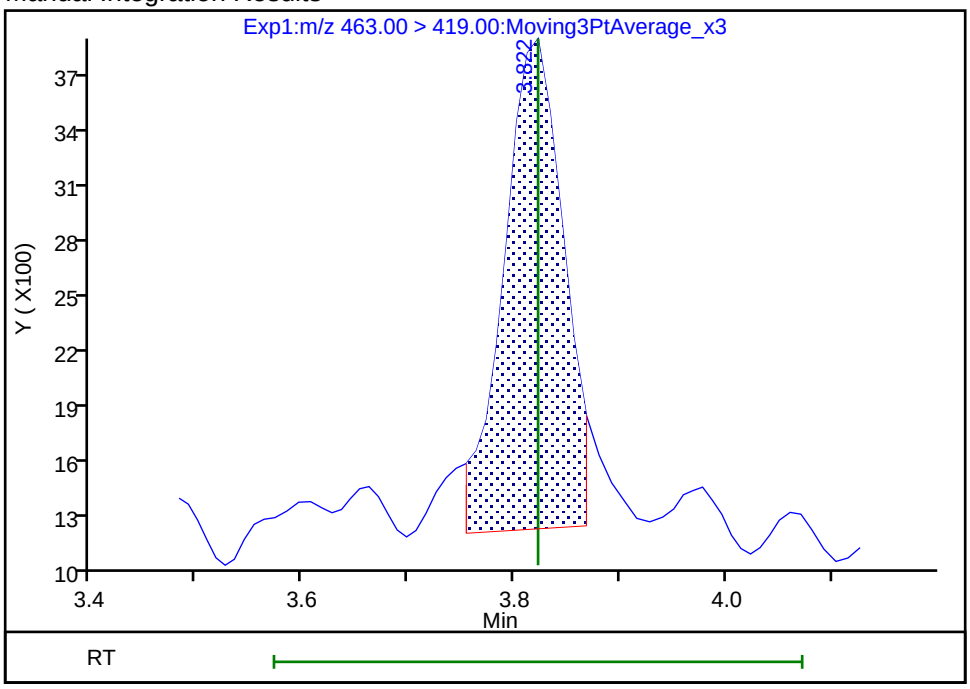
Processing Integration Results

RT: 3.82
Area: 8956
Amount: 0.007065
Amount Units: ng/ml



Manual Integration Results

RT: 3.82
Area: 10518
Amount: 0.008297
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:56:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

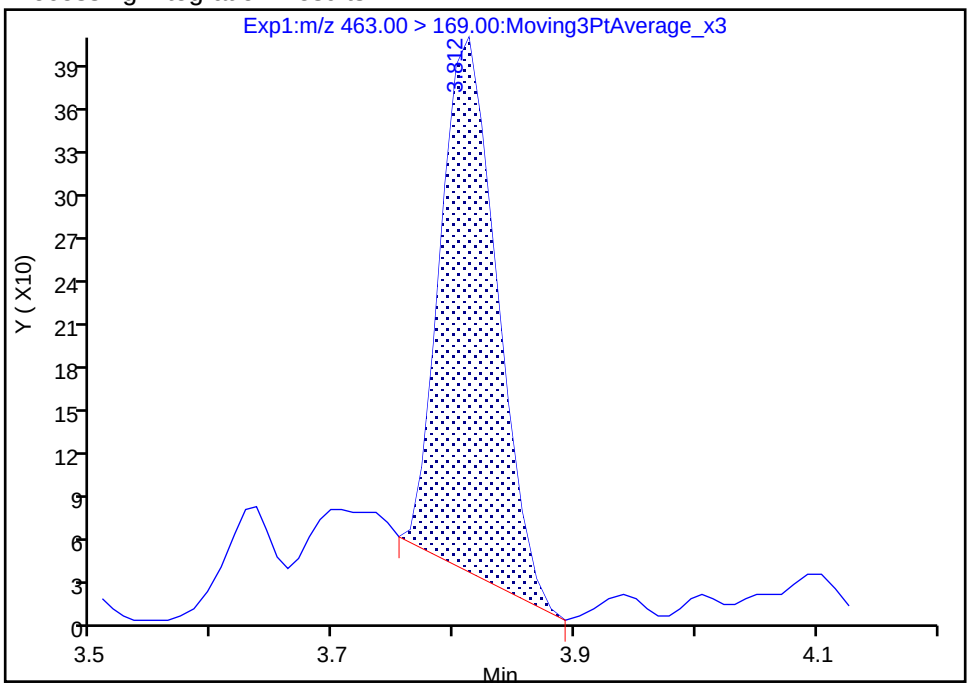
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

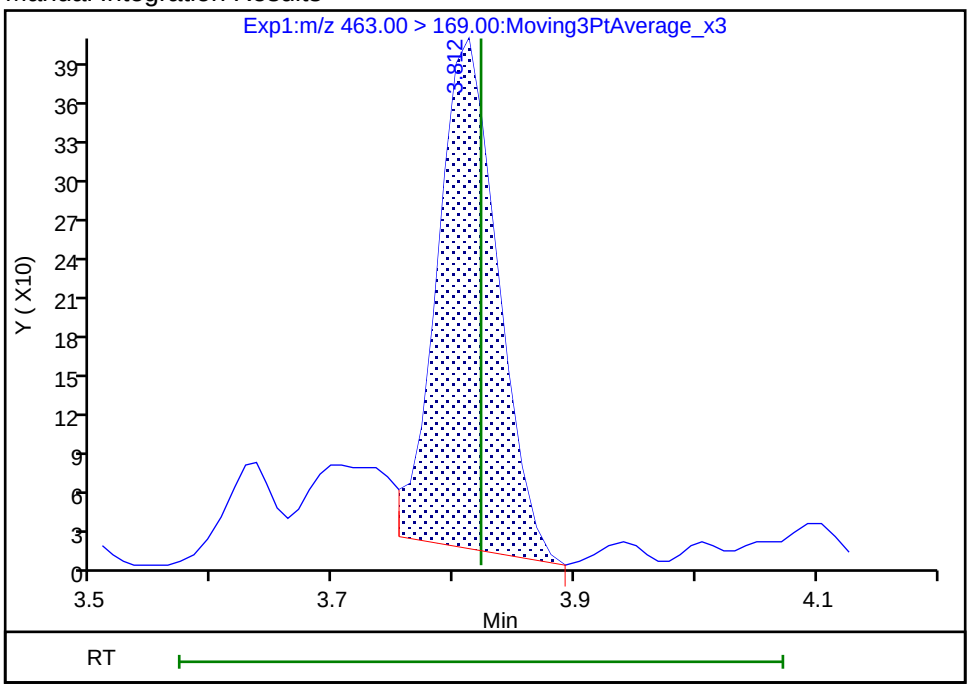
Processing Integration Results

RT: 3.81
Area: 1205
Amount: 0.007065
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 1353
Amount: 0.008297
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:12:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

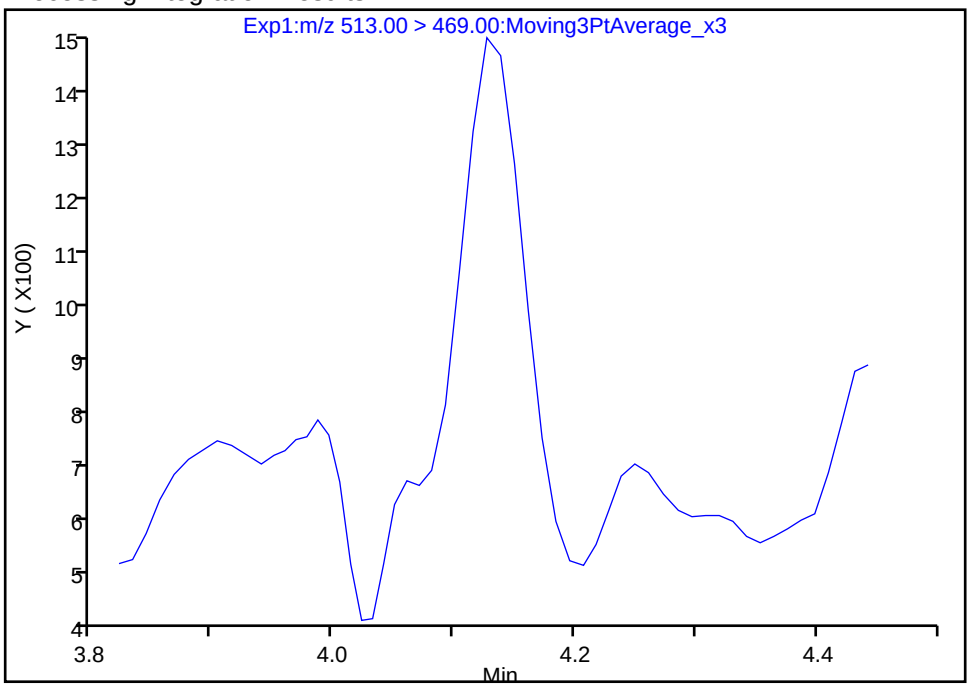
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

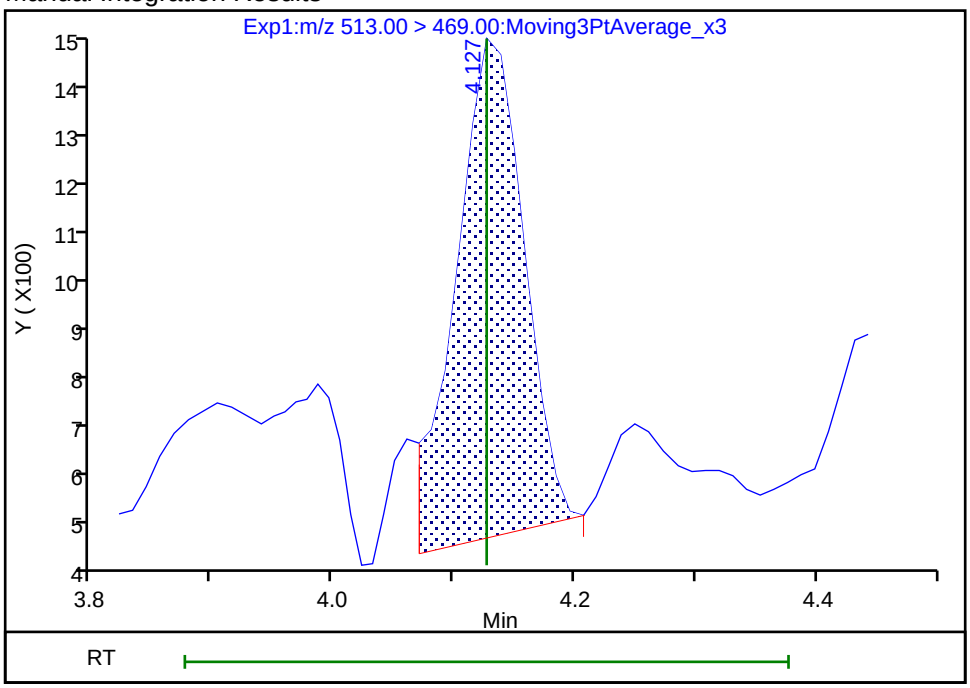
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.13
Area: 3712
Amount: 0.002989
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:57:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

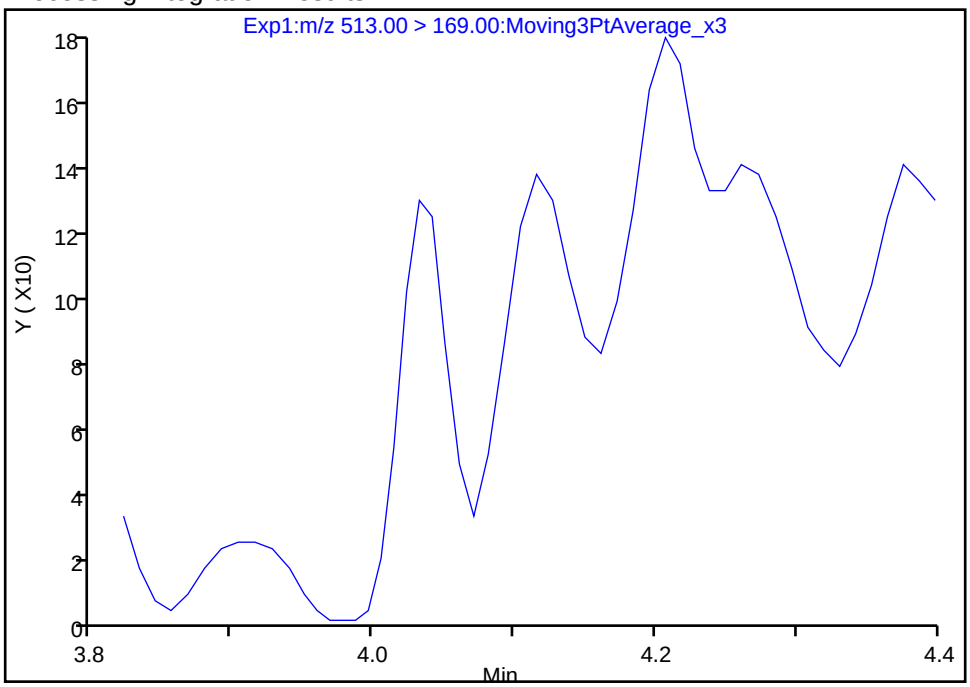
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

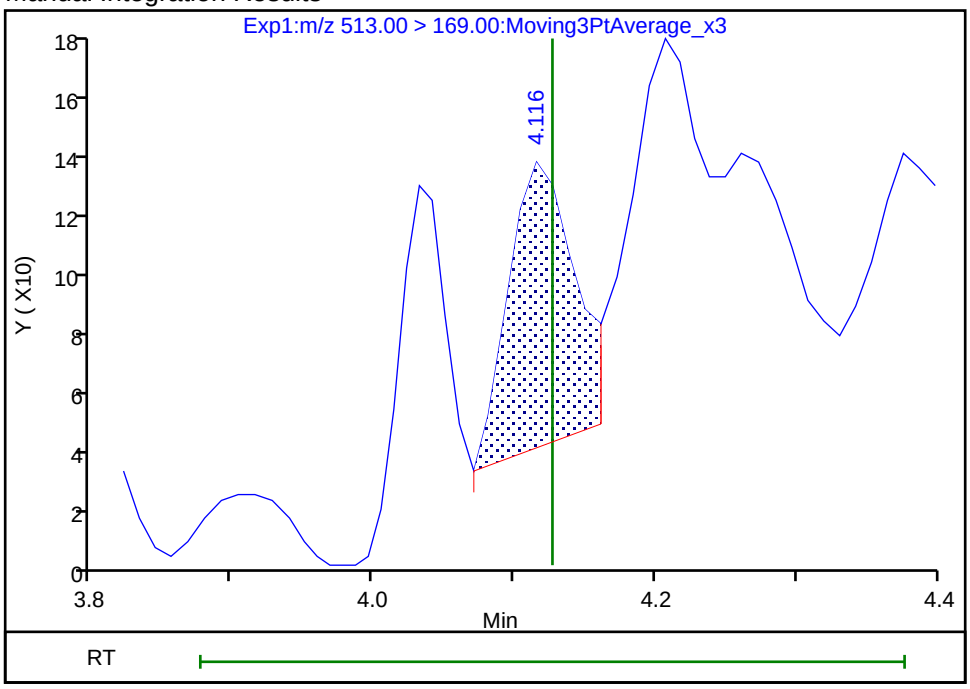
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.12
Area: 310
Amount: 0.002989
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:57:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

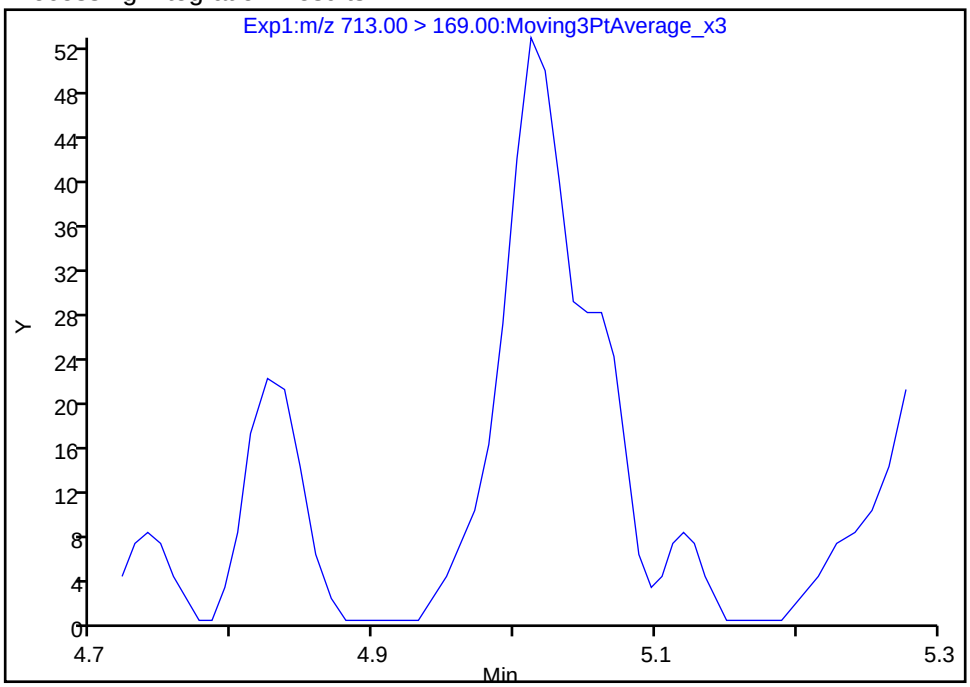
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

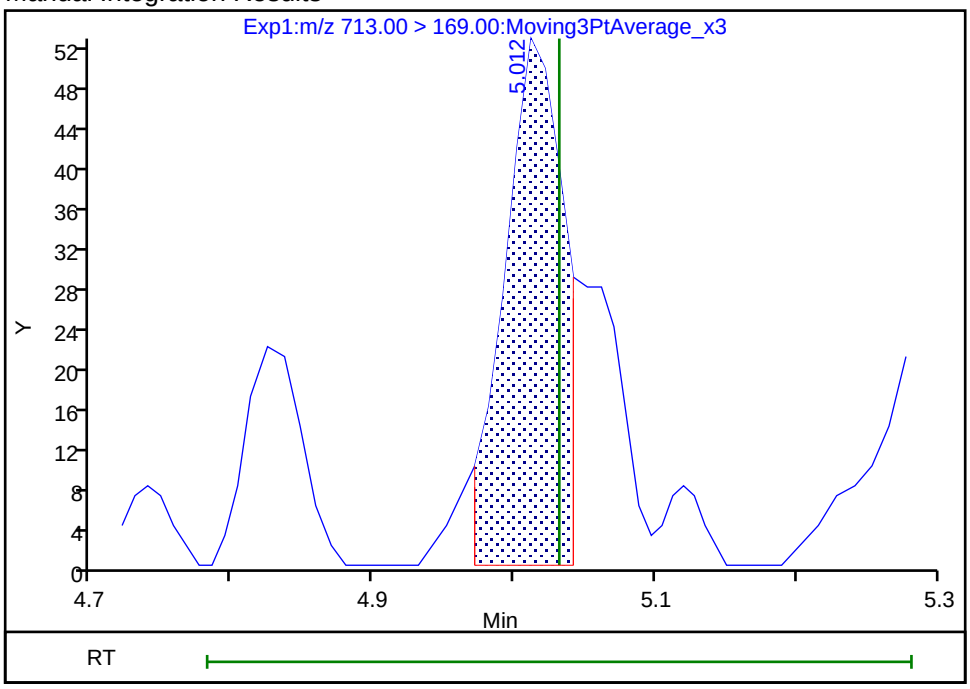
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.01
Area: 148
Amount: 0.001742
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:58:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

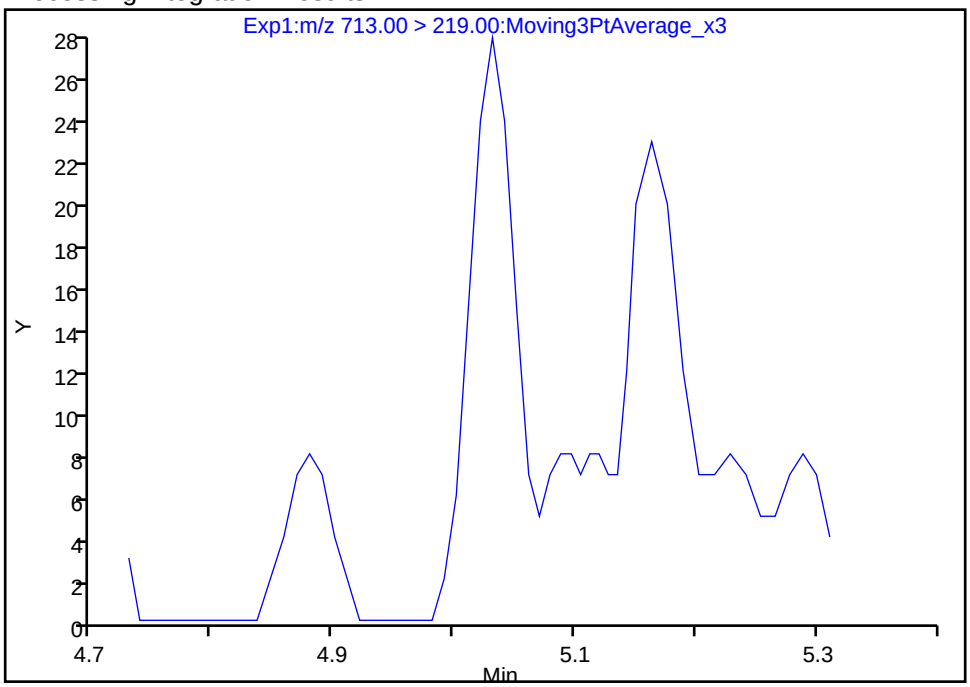
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

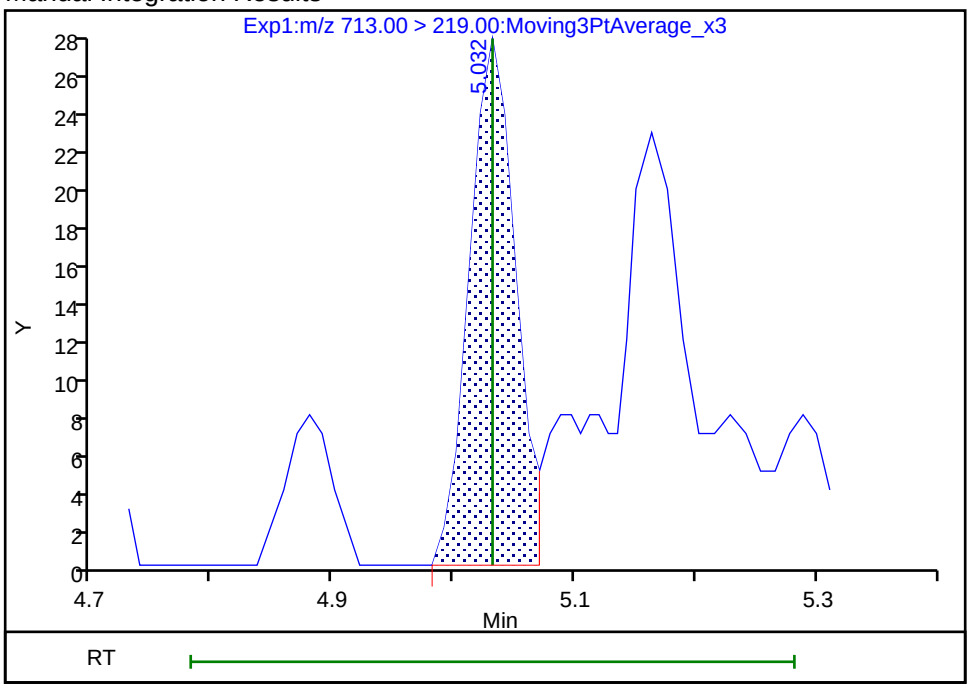
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.03
Area: 73
Amount: 0.001742
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:58:06
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

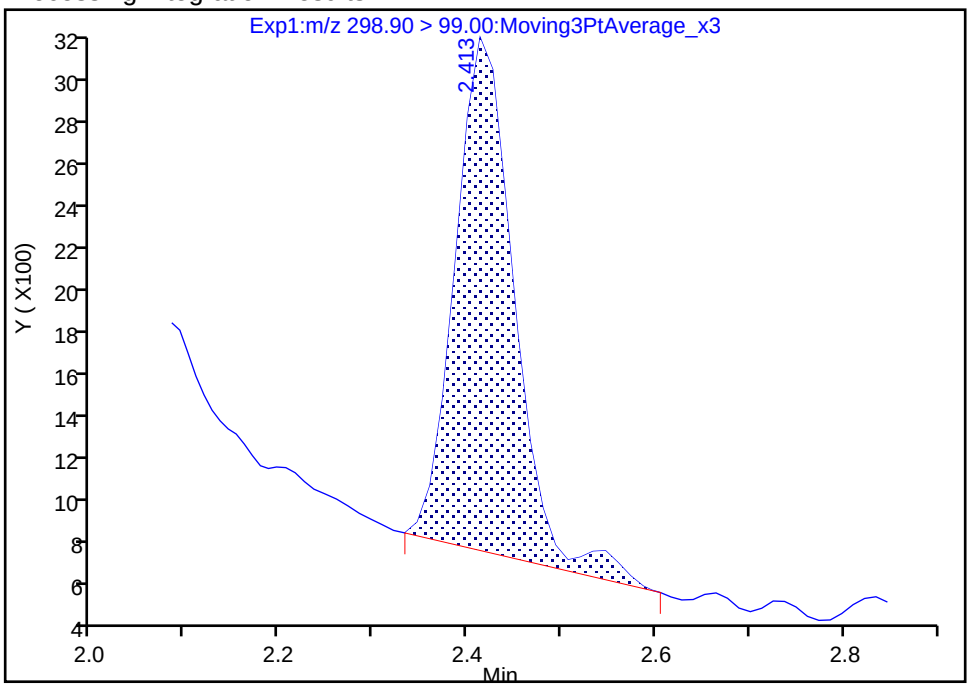
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

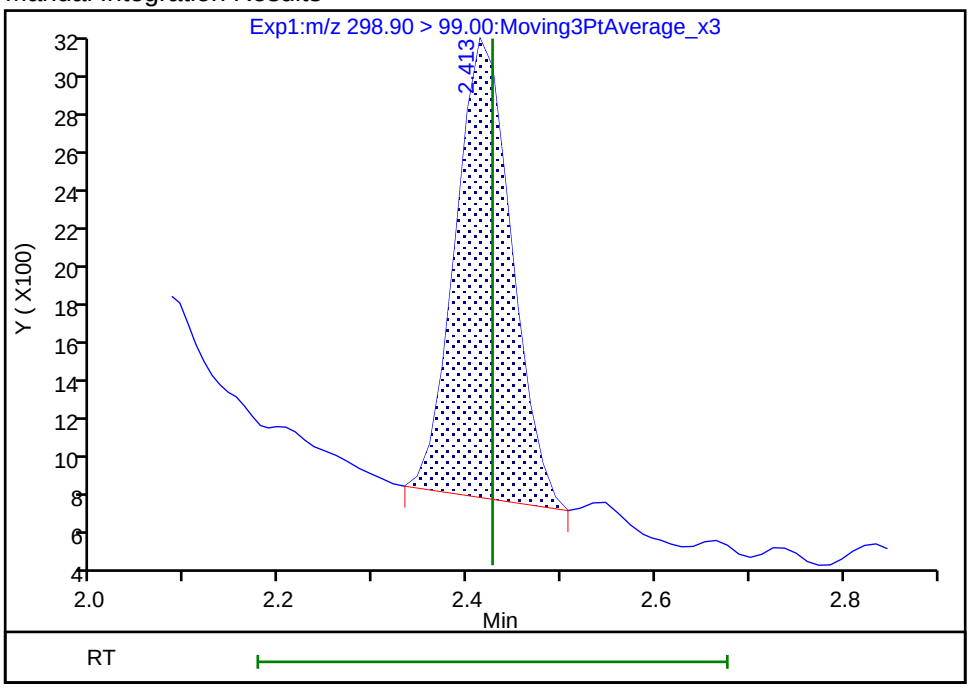
Processing Integration Results

RT: 2.41
Area: 10615
Amount: 0.015336
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 9938
Amount: 0.015376
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:54:33

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

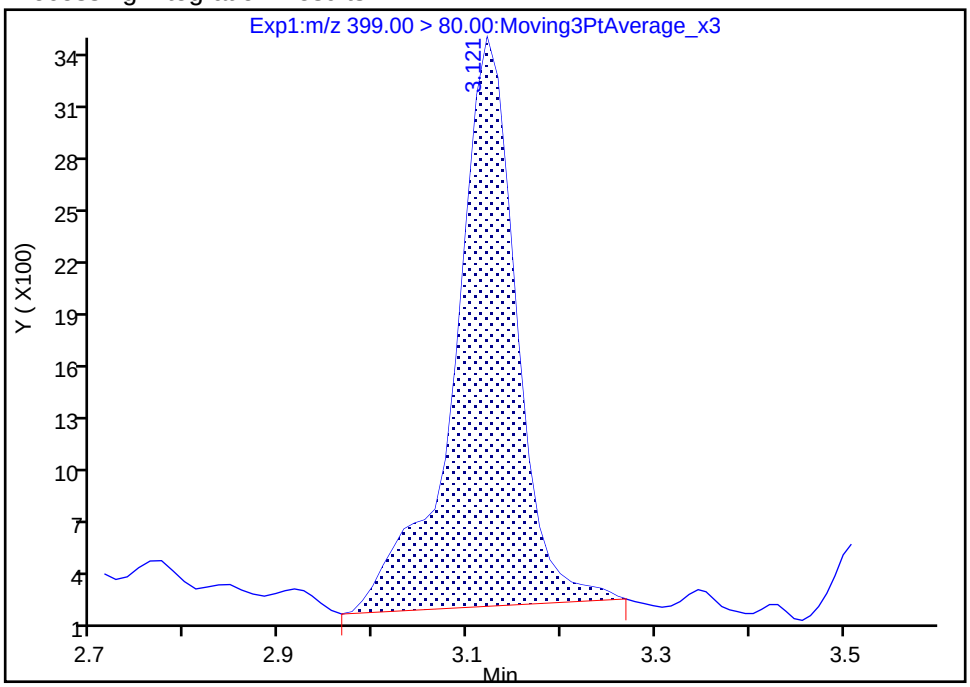
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

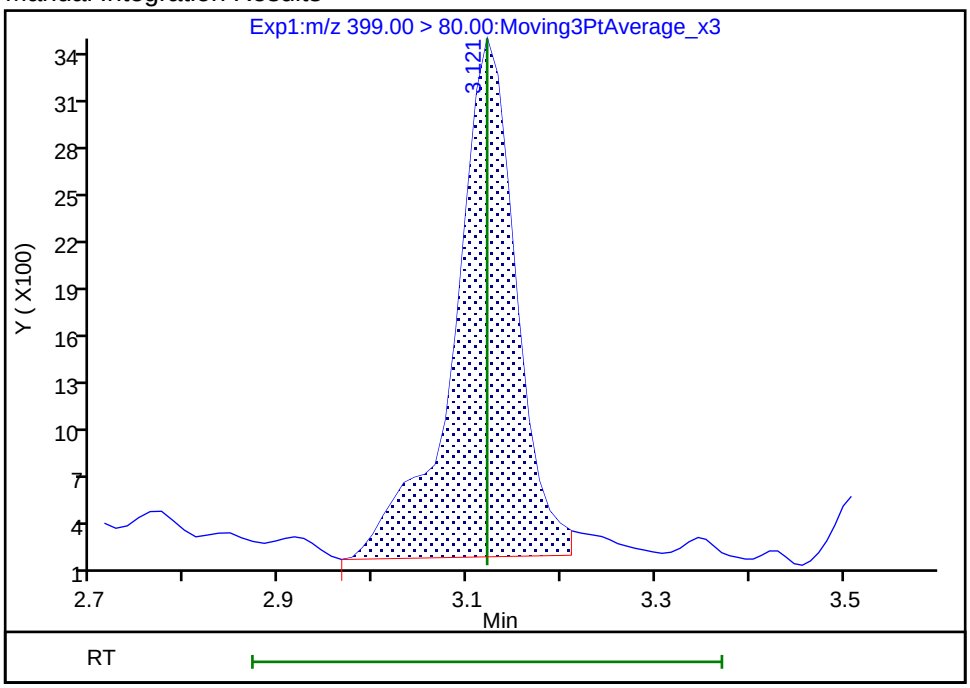
Processing Integration Results

RT: 3.12
Area: 14884
Amount: 0.011533
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 14975
Amount: 0.011680
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:54:45

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

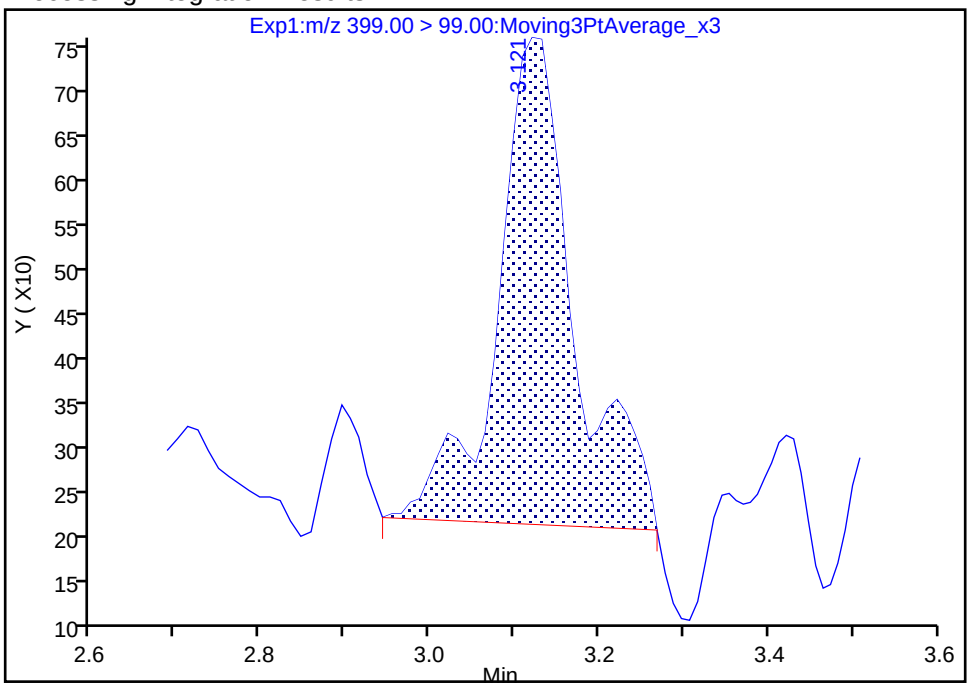
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

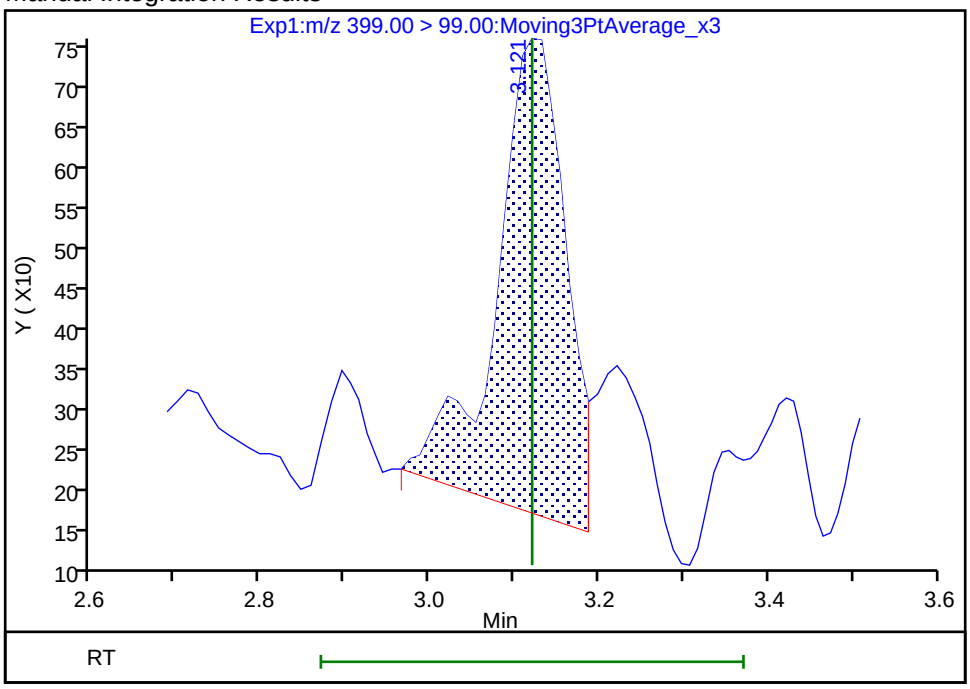
Processing Integration Results

RT: 3.12
Area: 3444
Amount: 0.011533
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 3324
Amount: 0.011680
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:54:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

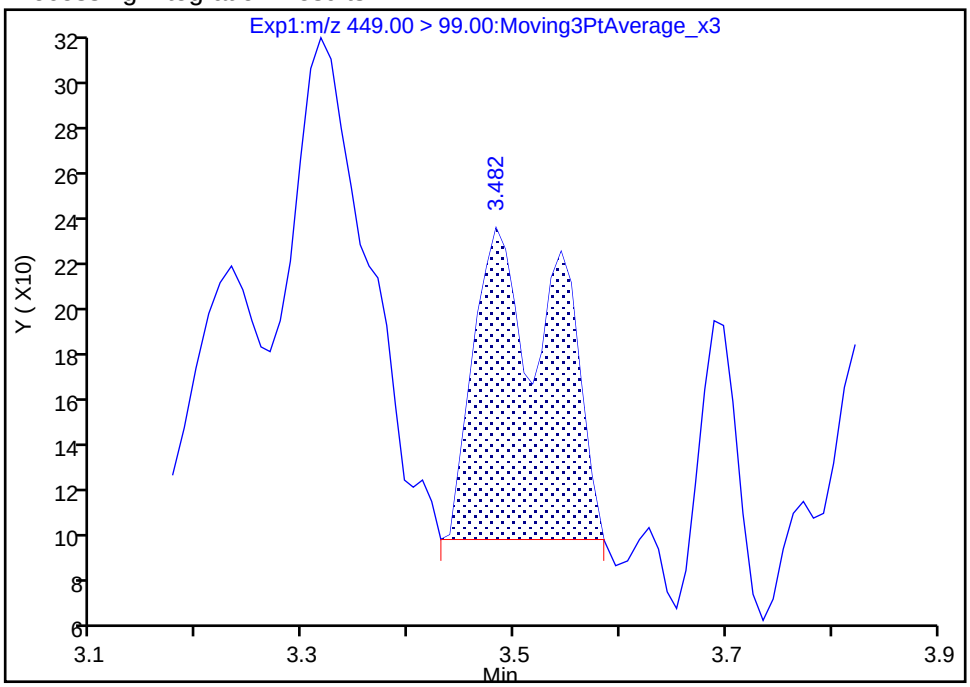
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

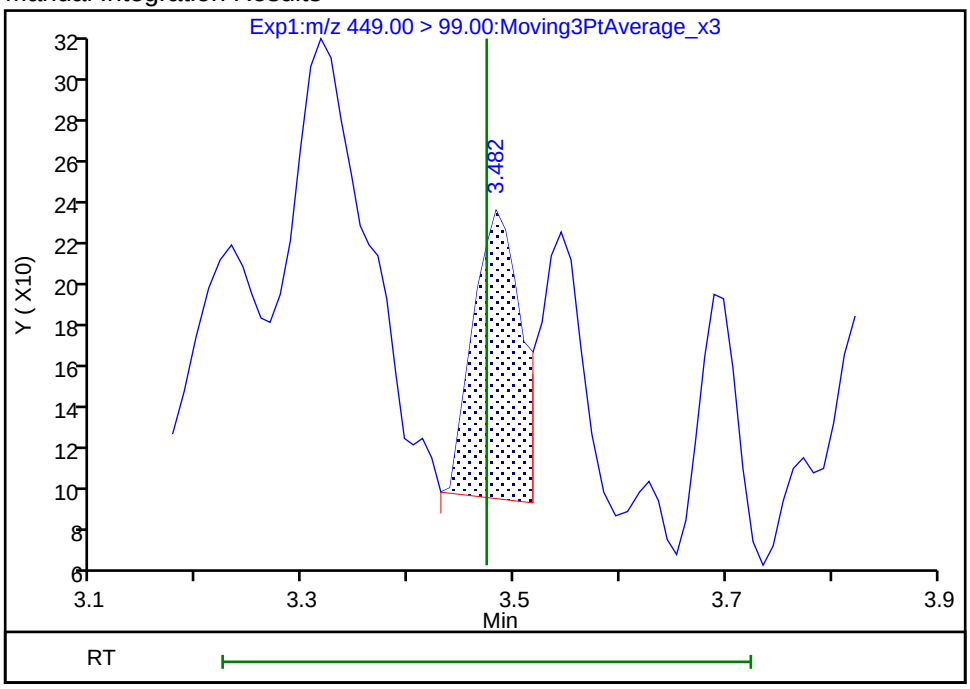
Processing Integration Results

RT: 3.48
Area: 701
Amount: 0.001181
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 411
Amount: 0.000996
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:55:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

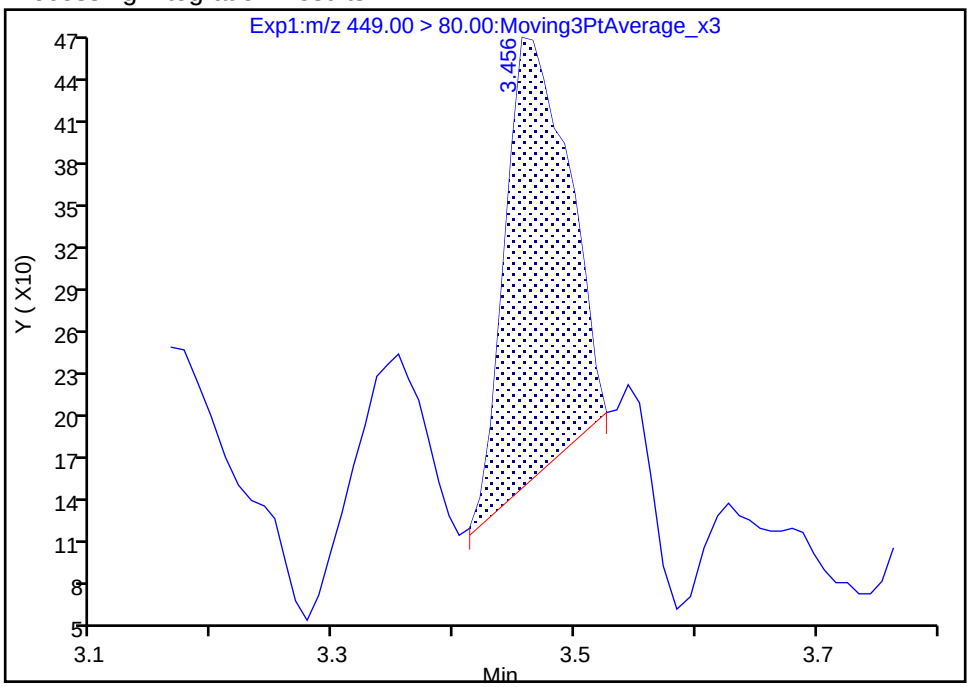
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

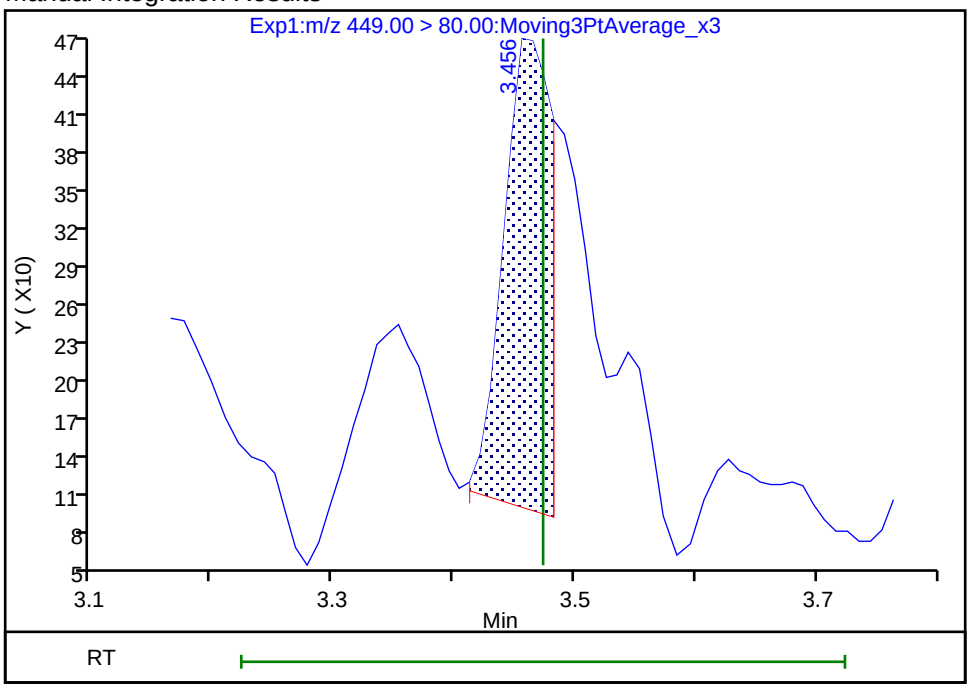
Processing Integration Results

RT: 3.46
Area: 1150
Amount: 0.001181
Amount Units: ng/ml



Manual Integration Results

RT: 3.46
Area: 965
Amount: 0.000996
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:55:34

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

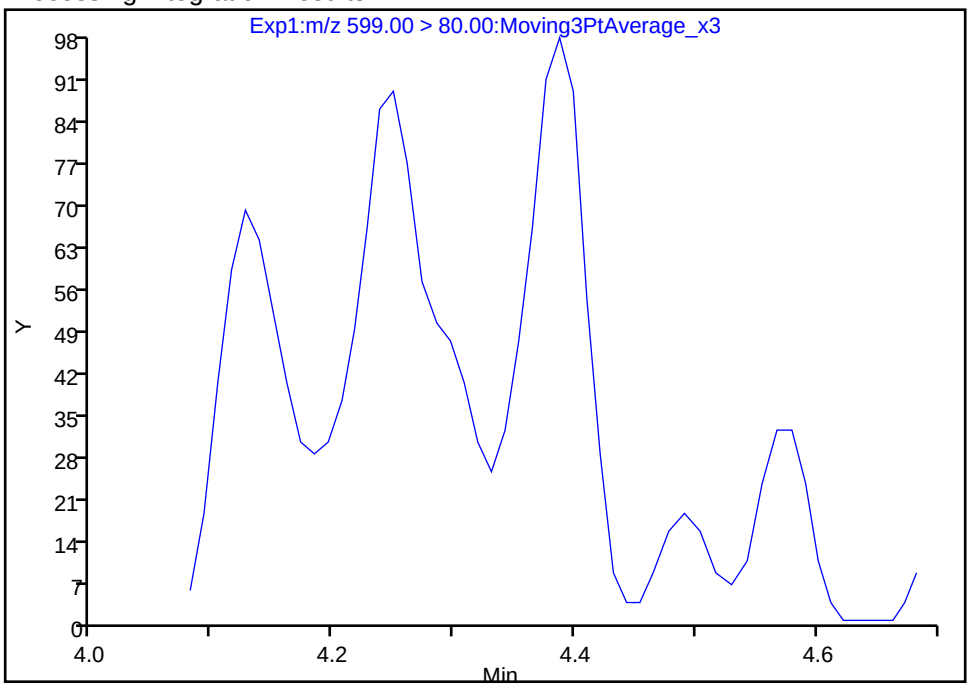
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

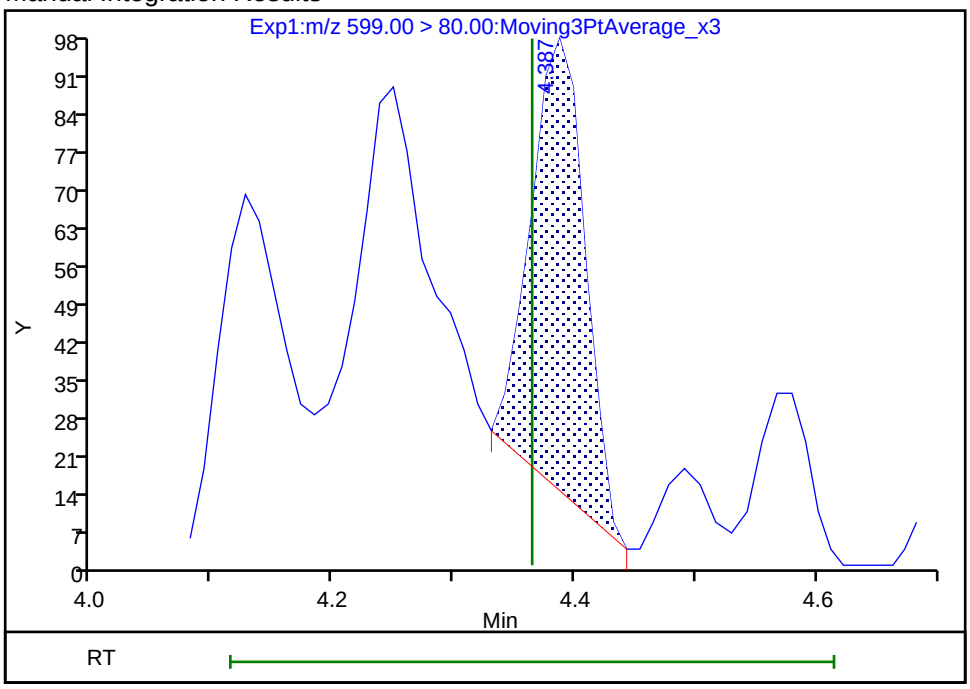
Not Detected
Expected RT: 4.36

Processing Integration Results



Manual Integration Results

RT: 4.39
Area: 261
Amount: 0.000525
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:57:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

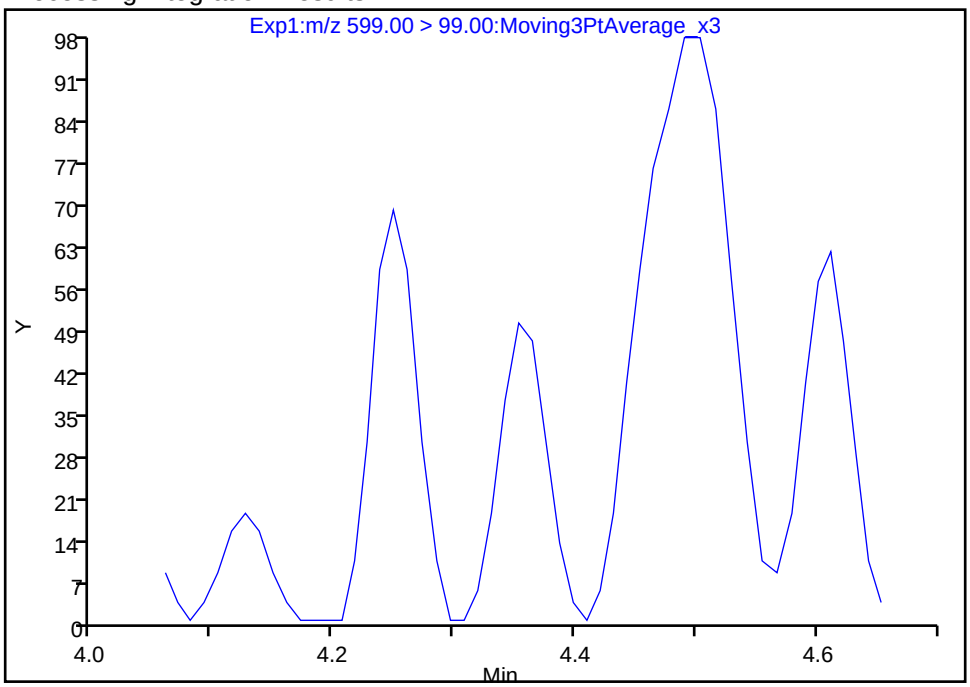
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

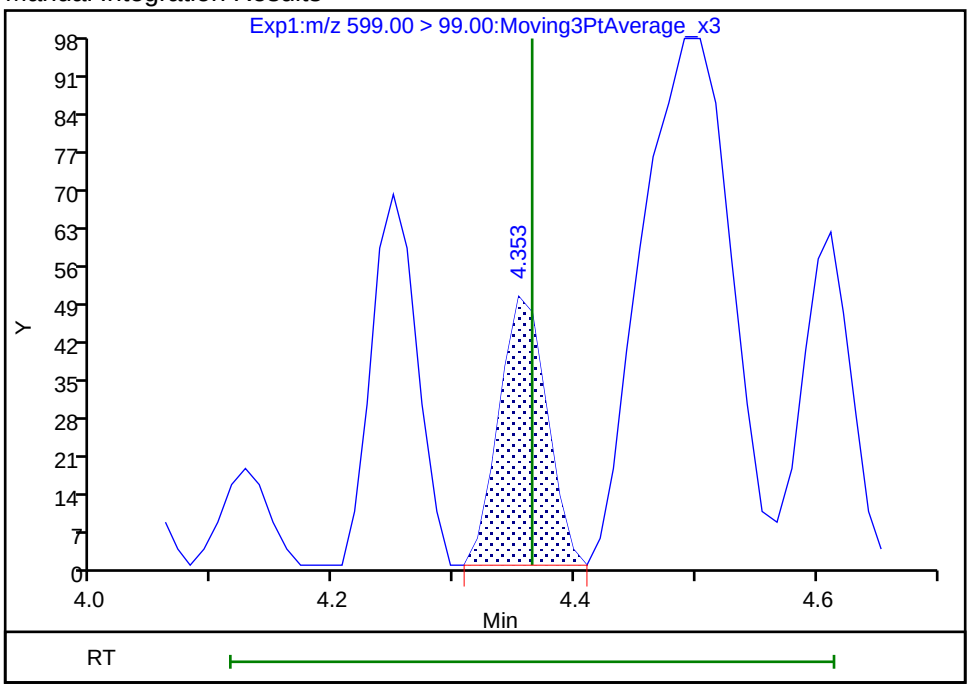
Not Detected
Expected RT: 4.36

Processing Integration Results



Manual Integration Results

RT: 4.35
Area: 137
Amount: 0.000525
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:57:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

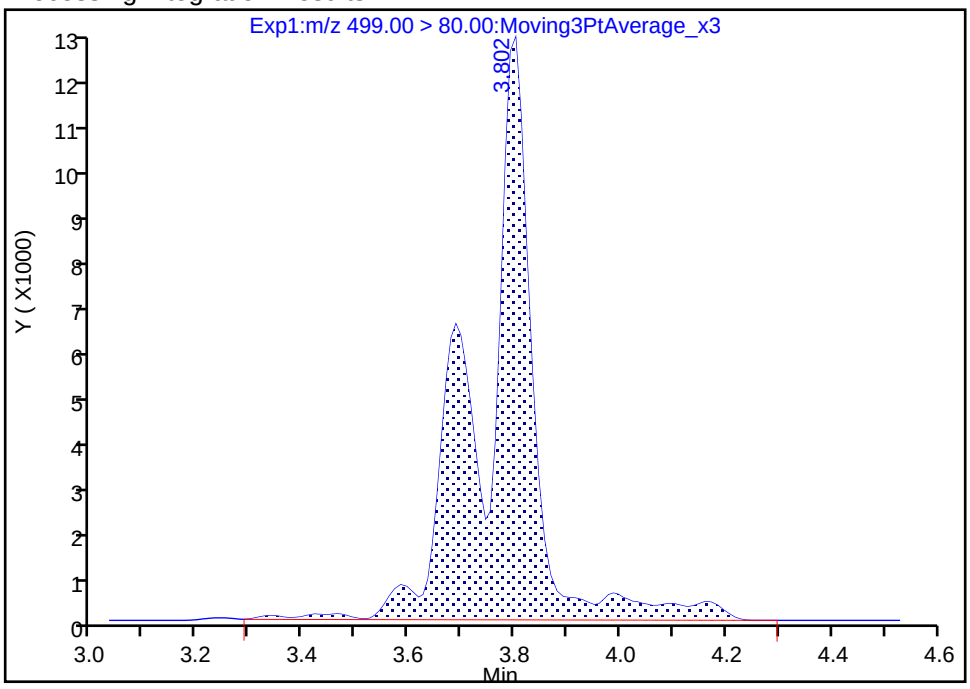
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

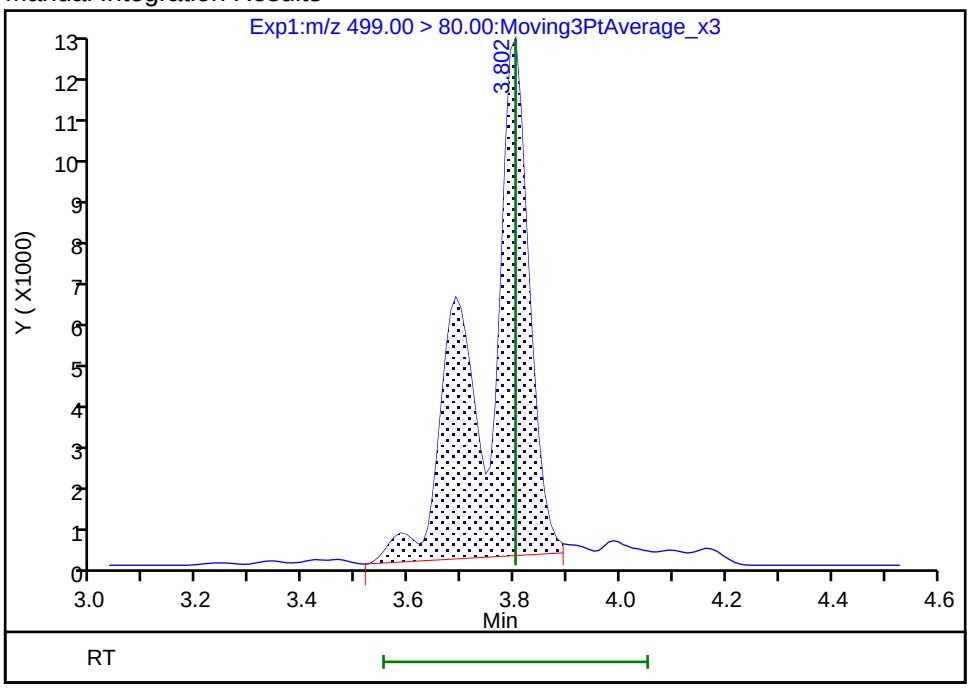
Processing Integration Results

RT: 3.80
Area: 83155
Amount: 0.096114
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 72067
Amount: 0.083692
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:56:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

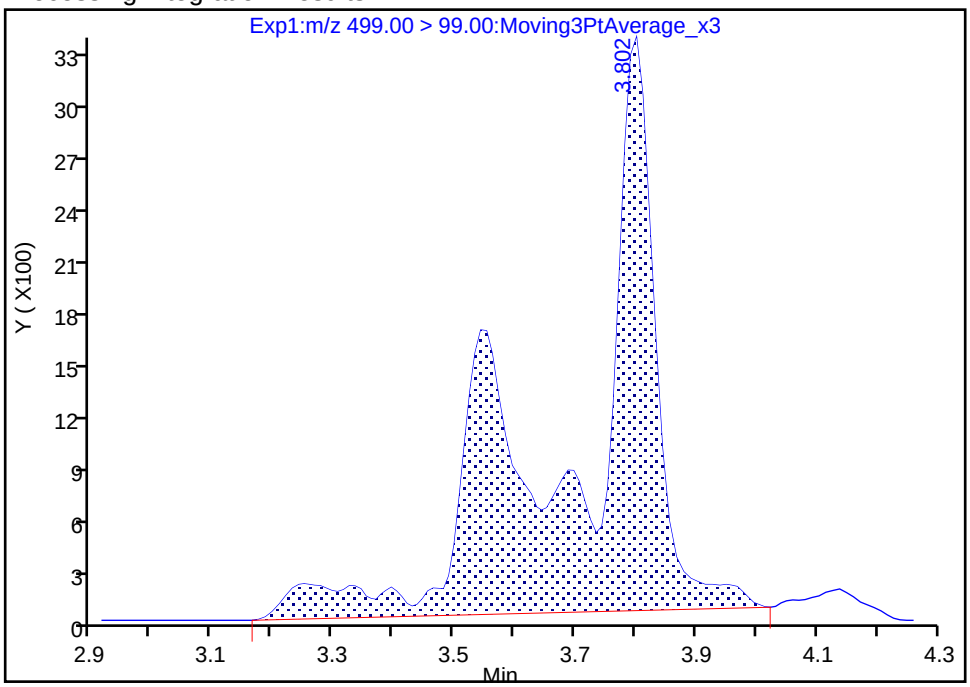
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

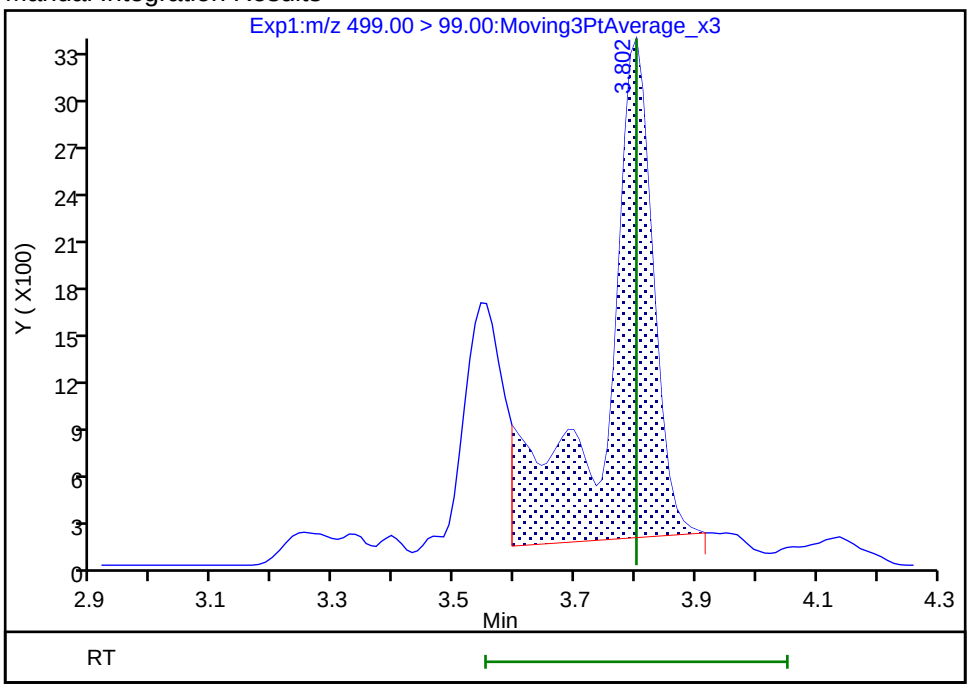
Processing Integration Results

RT: 3.80
Area: 29966
Amount: 0.096114
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 17540
Amount: 0.083692
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:56:27

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

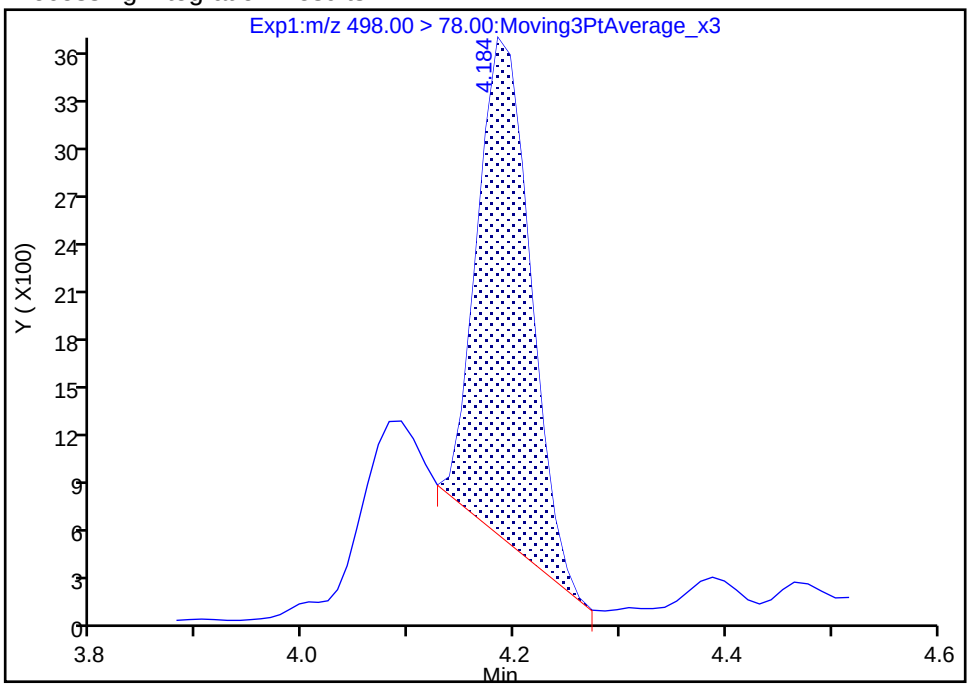
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

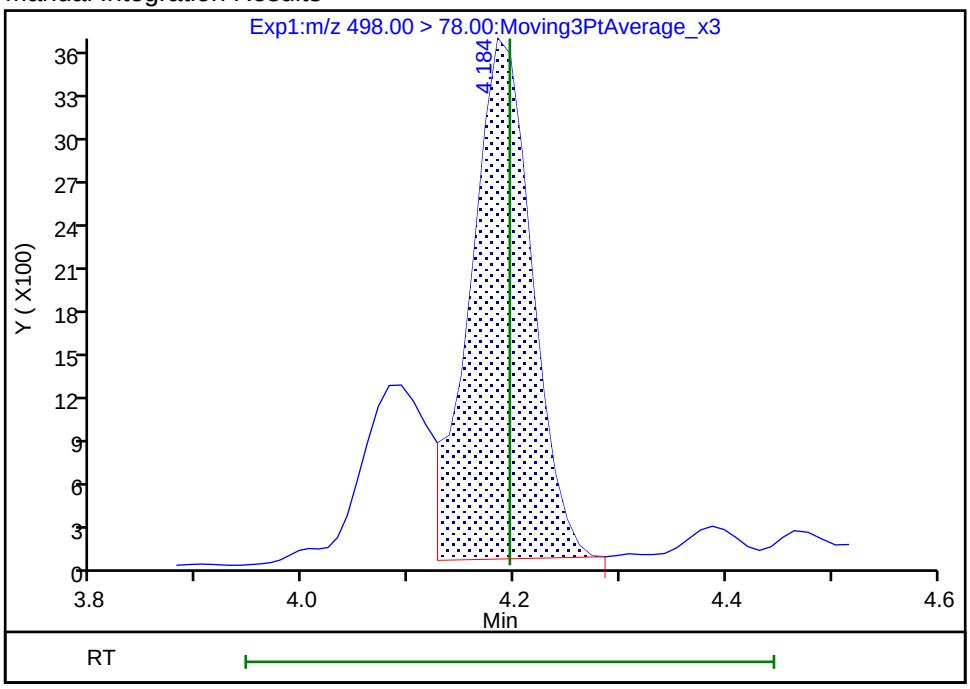
Processing Integration Results

RT: 4.18
Area: 10970
Amount: 0.010476
Amount Units: ng/ml



Manual Integration Results

RT: 4.18
Area: 14552
Amount: 0.013897
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:12:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

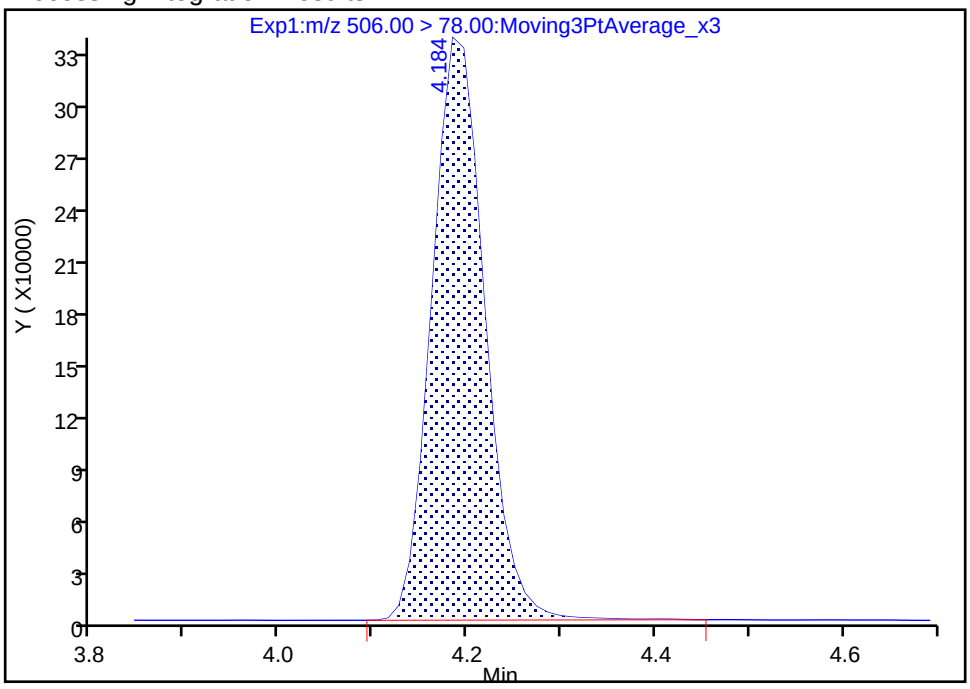
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

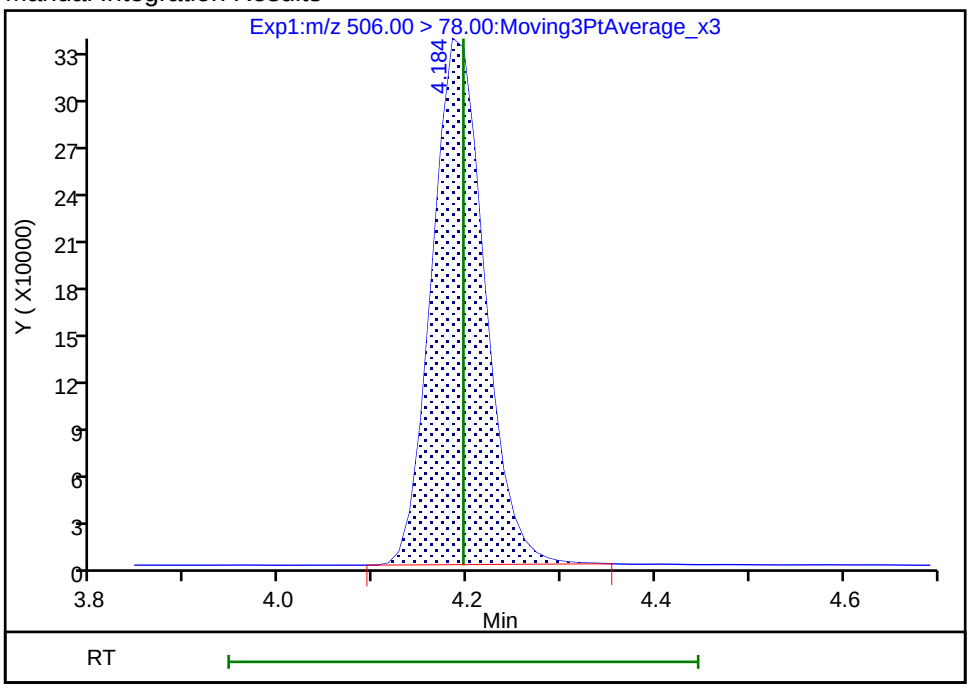
Processing Integration Results

RT: 4.18
Area: 1296733
Amount: 0.844607
Amount Units: ng/ml



Manual Integration Results

RT: 4.18
Area: 1289900
Amount: 0.840157
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:12:30

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

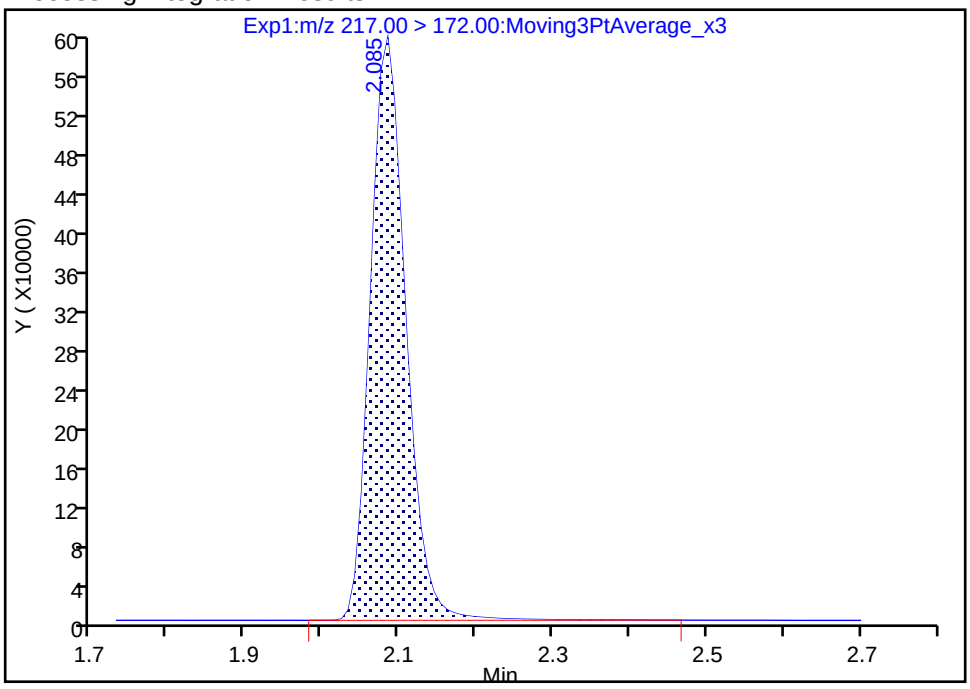
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

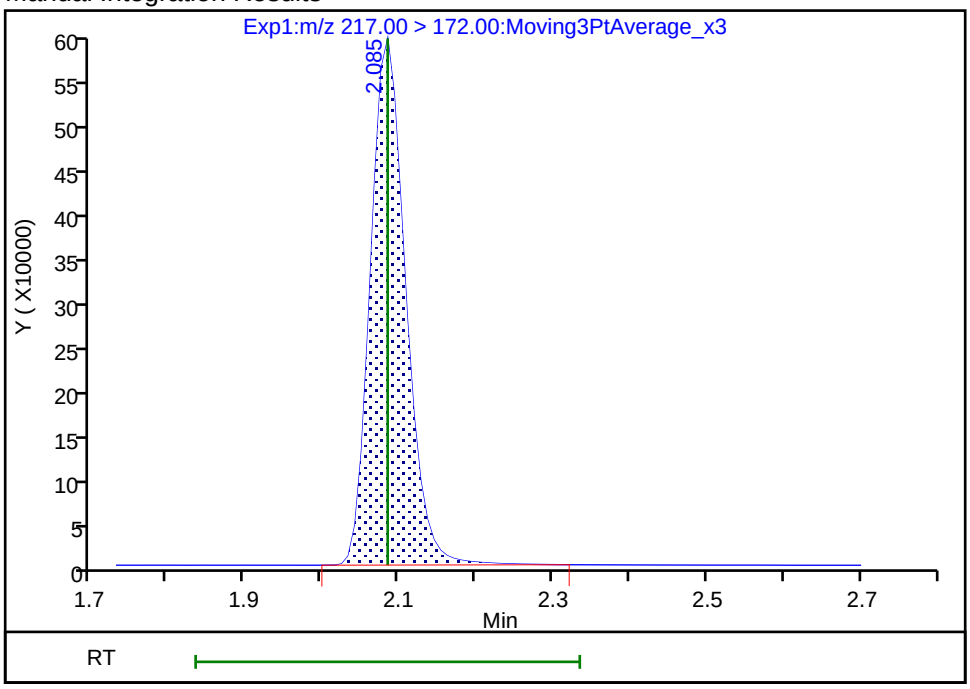
Processing Integration Results

RT: 2.08
Area: 1892871
Amount: 1.258632
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 1887165
Amount: 1.254838
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:11:07

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

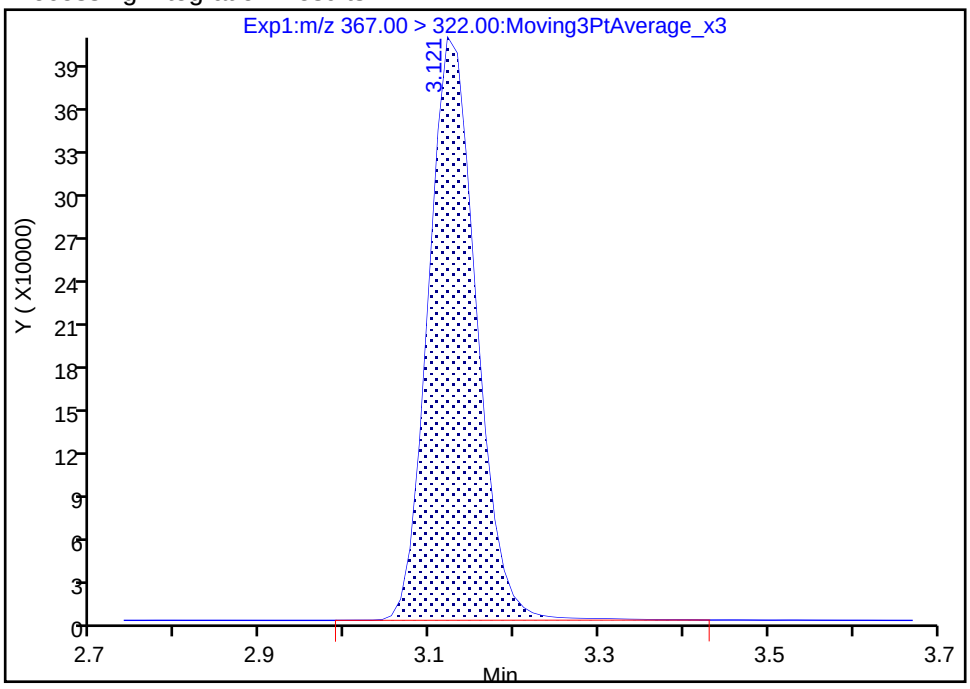
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

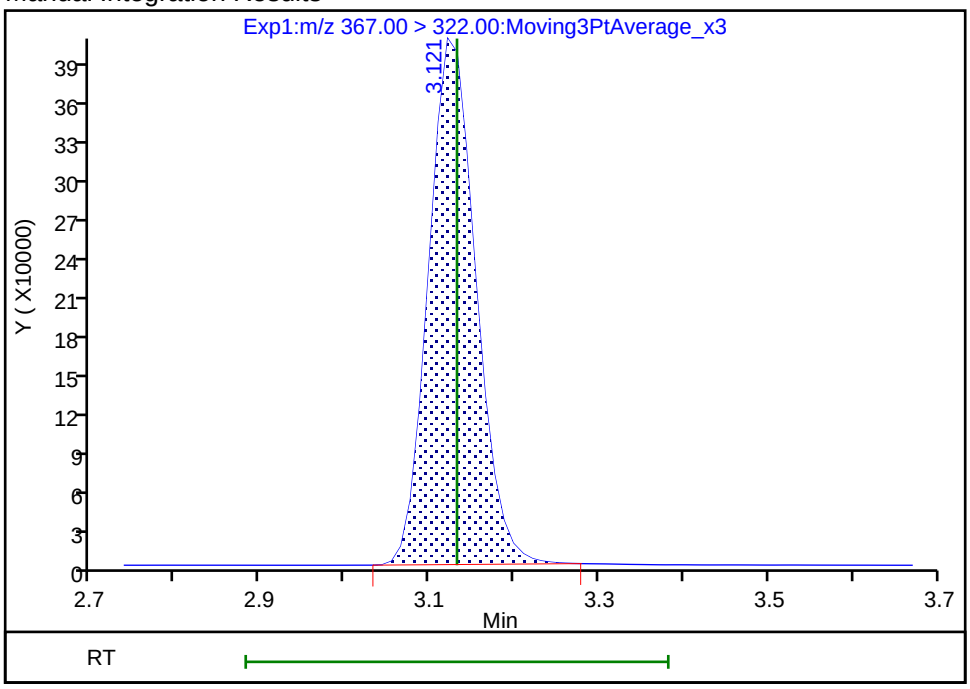
Processing Integration Results

RT: 3.12
Area: 1584011
Amount: 1.248870
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 1571643
Amount: 1.239119
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:11:36

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

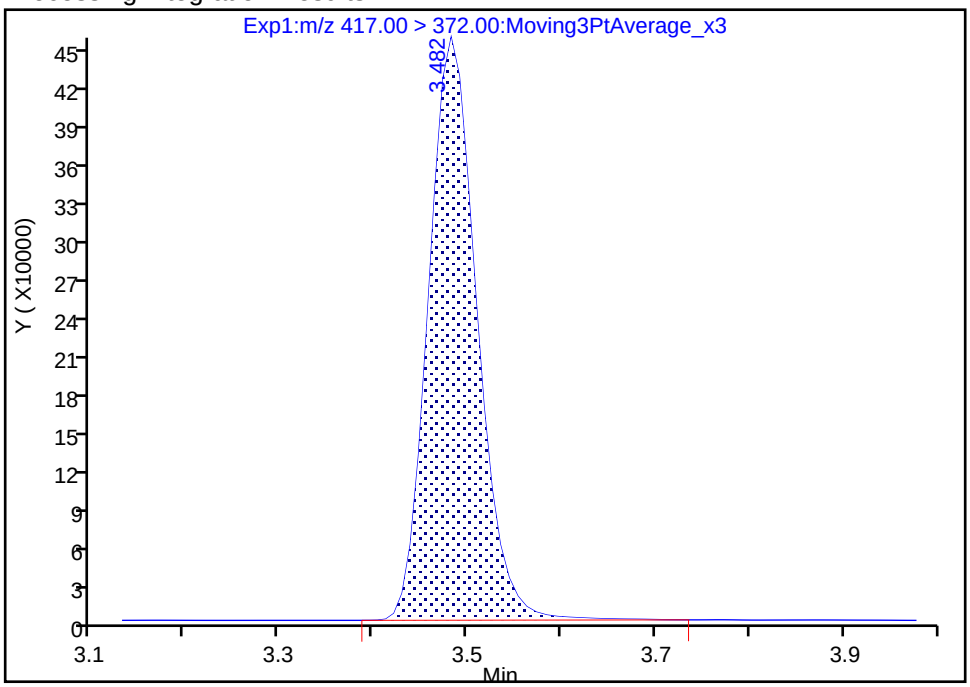
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

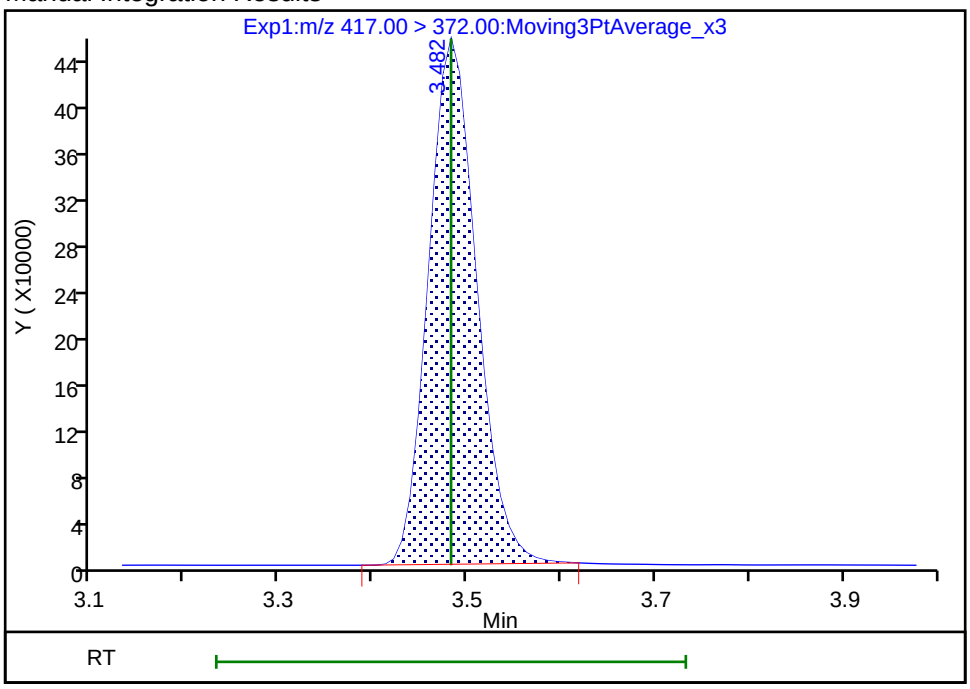
Processing Integration Results

RT: 3.48
Area: 1611560
Amount: 1.208310
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 1595037
Amount: 1.195922
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:11:47

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

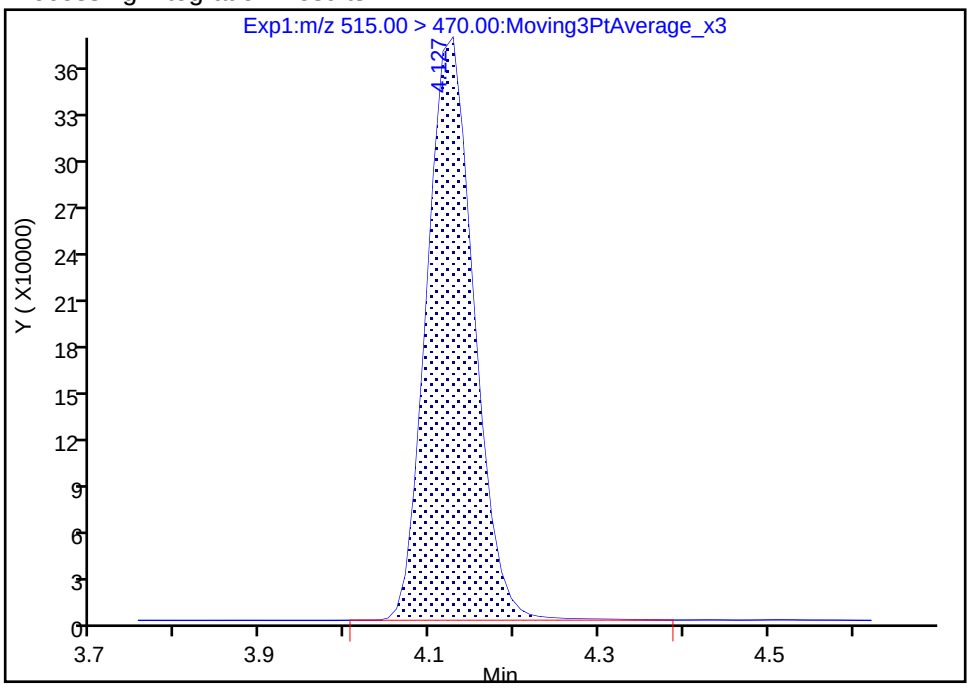
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

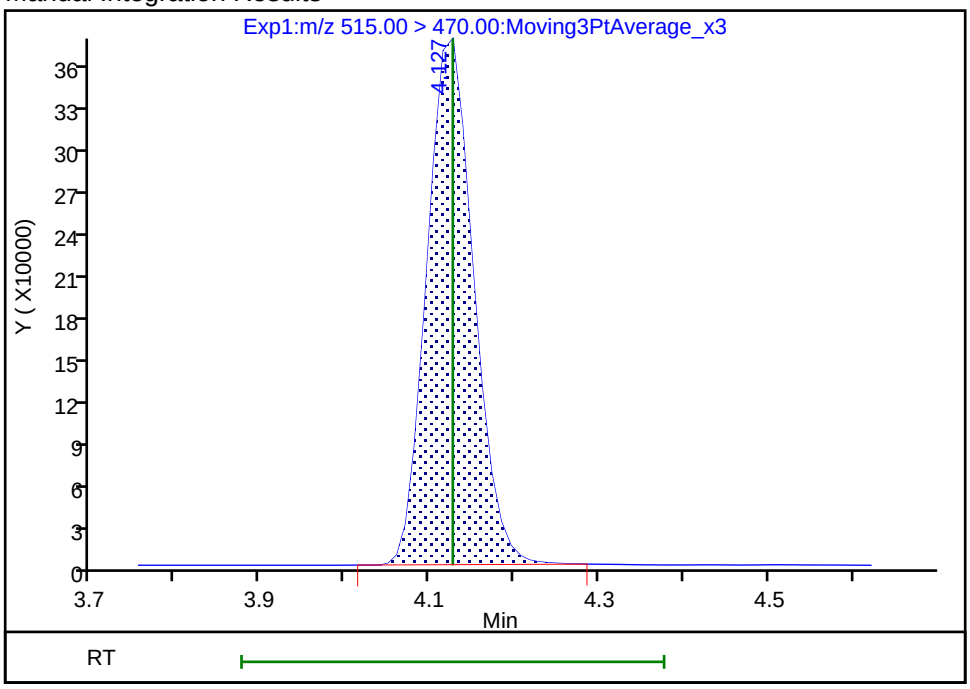
Processing Integration Results

RT: 4.13
Area: 1464530
Amount: 1.049469
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 1457036
Amount: 1.044099
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:12:19

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

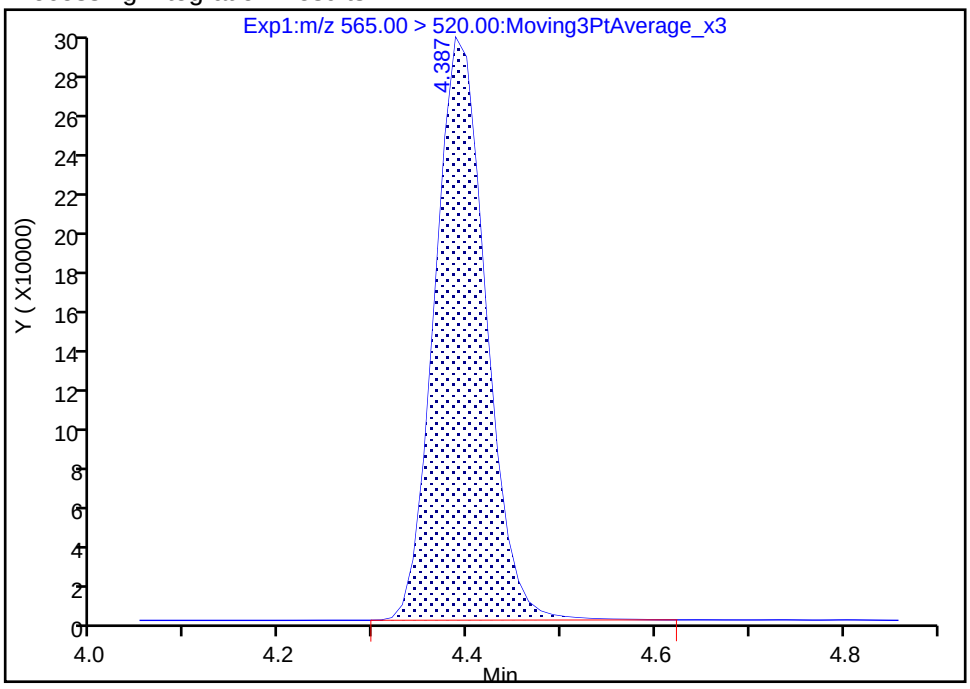
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

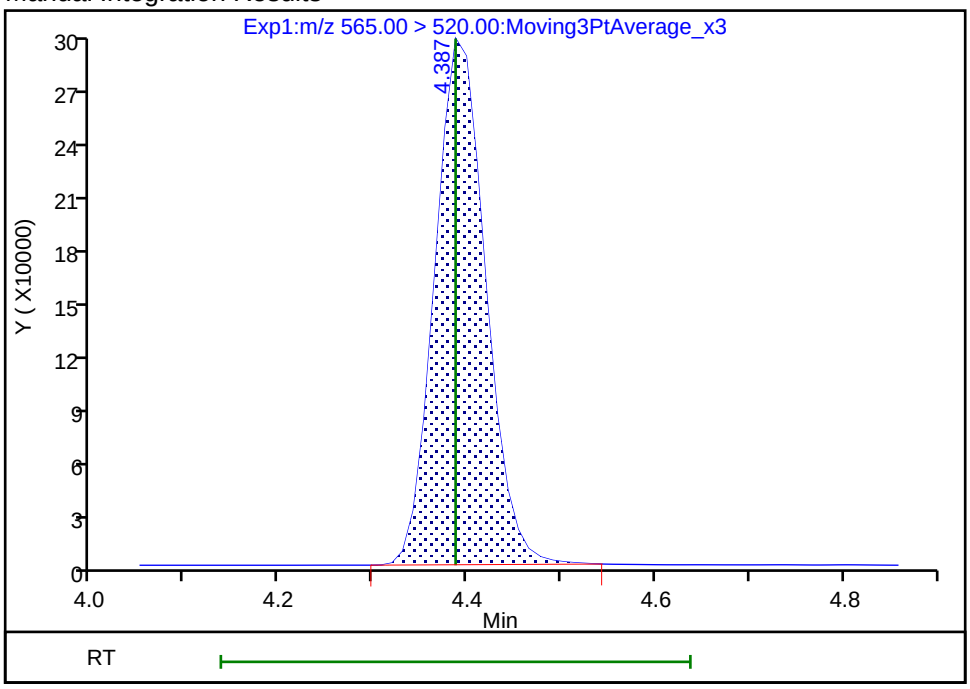
Processing Integration Results

RT: 4.39
Area: 1110294
Amount: 0.990951
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 1105922
Amount: 0.987049
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:12:58

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

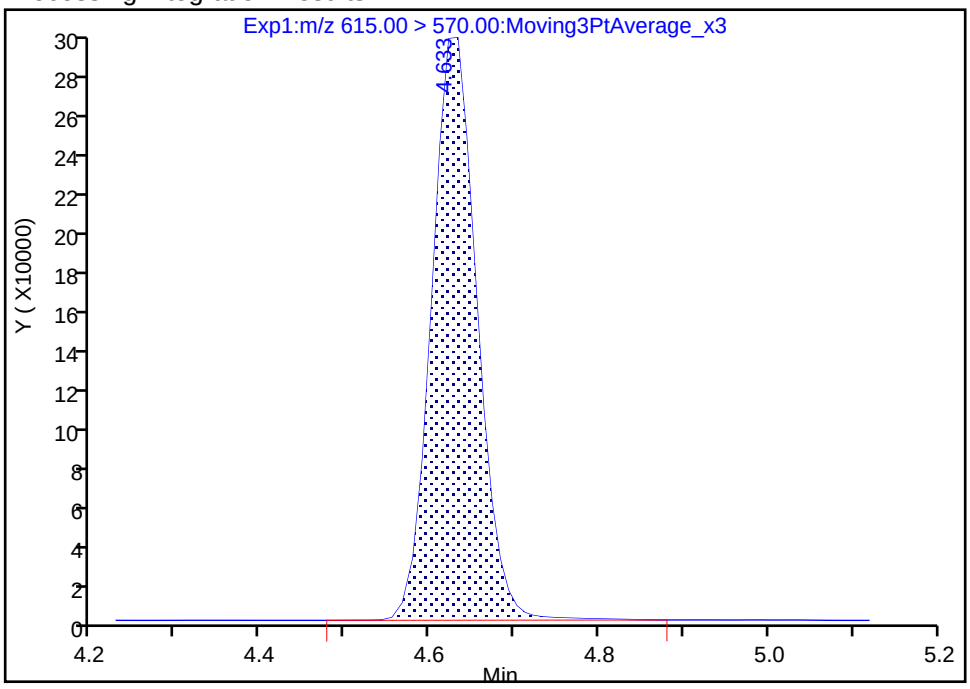
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 36 13C2 PFDoA, CAS: STL00998

Signal: 1

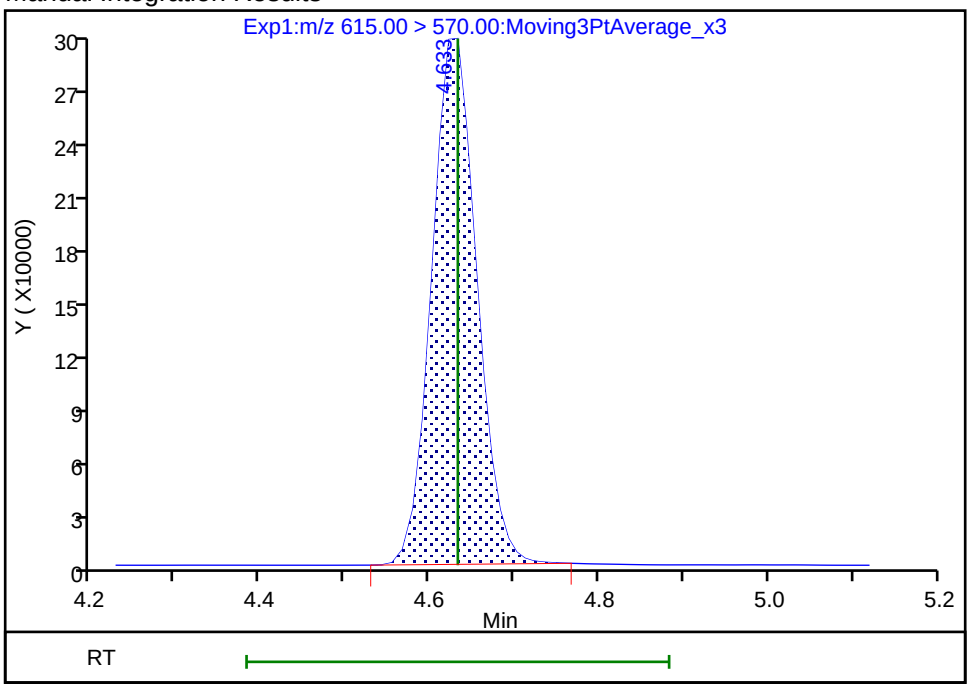
Processing Integration Results

RT: 4.63
Area: 1086503
Amount: 0.908011
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 1077115
Amount: 0.900165
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:14:12

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

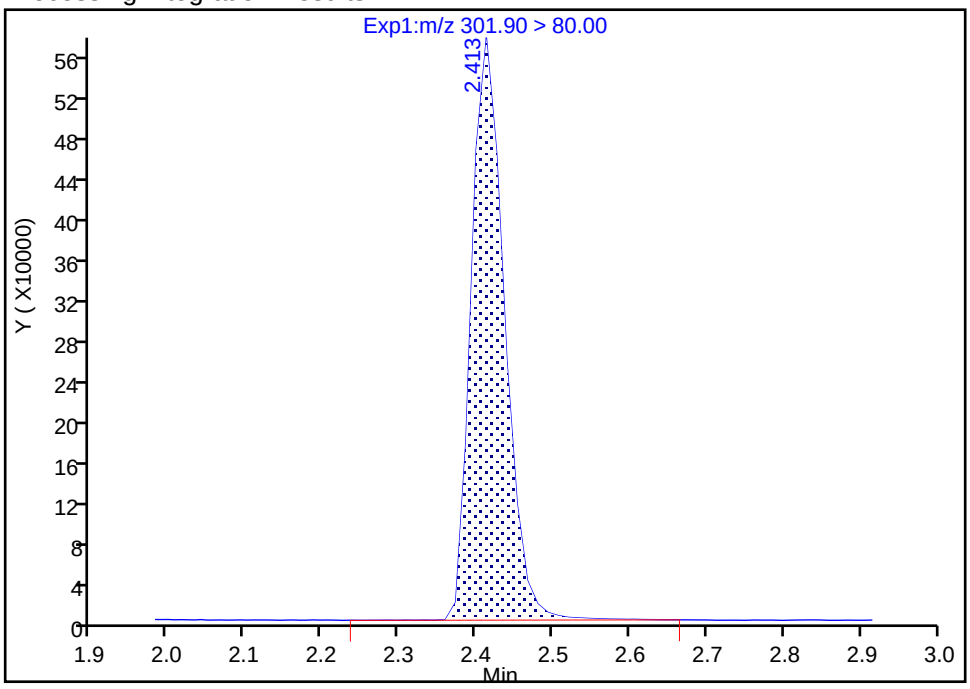
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

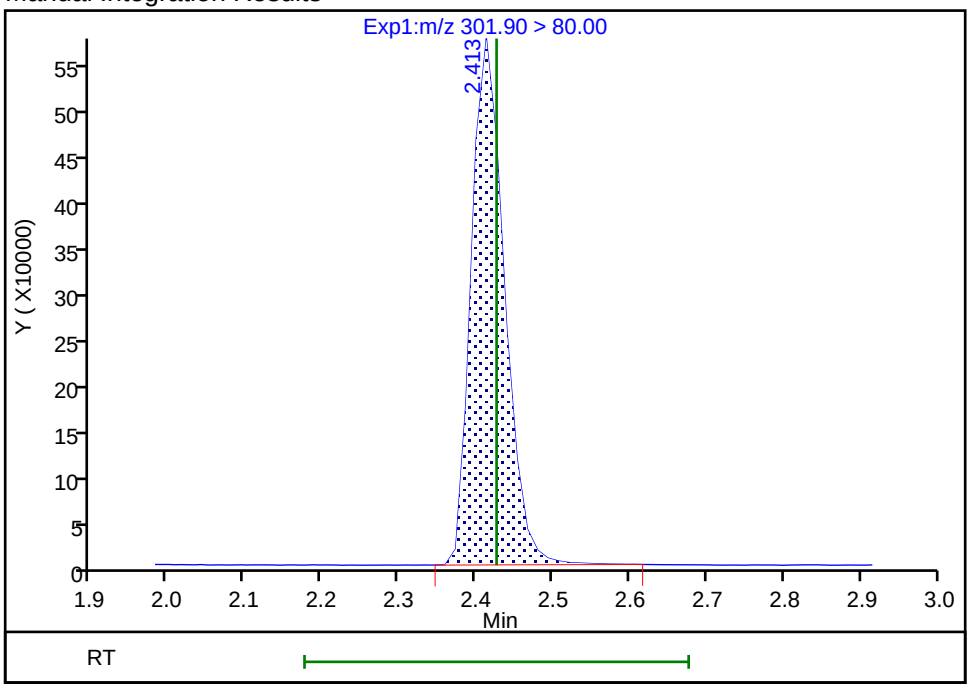
Processing Integration Results

RT: 2.41
Area: 1710855
Amount: 1.026374
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 1706417
Amount: 1.023711
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:11:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

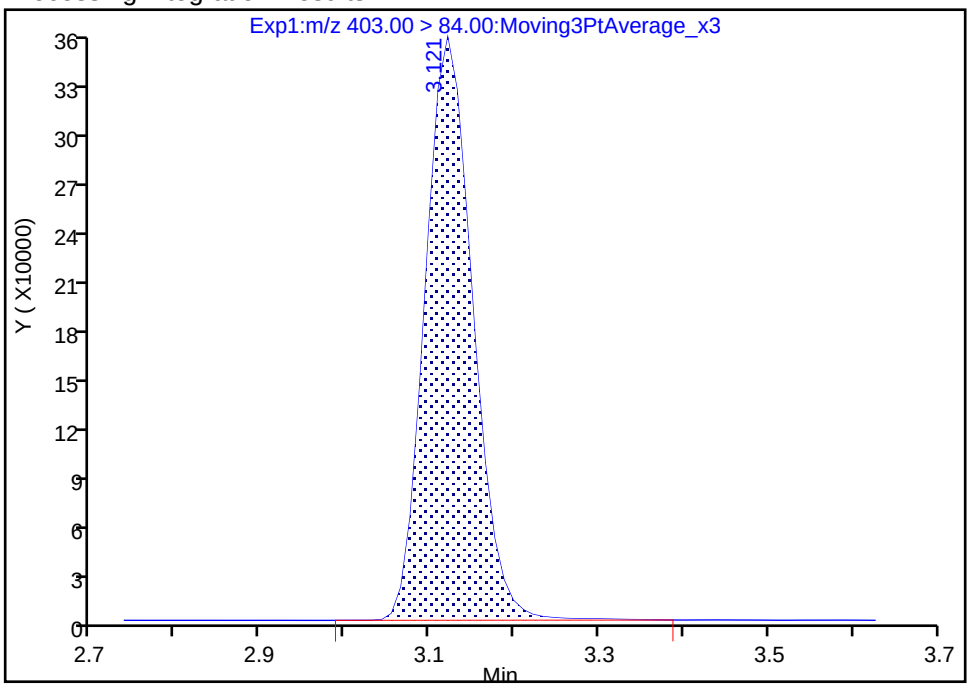
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

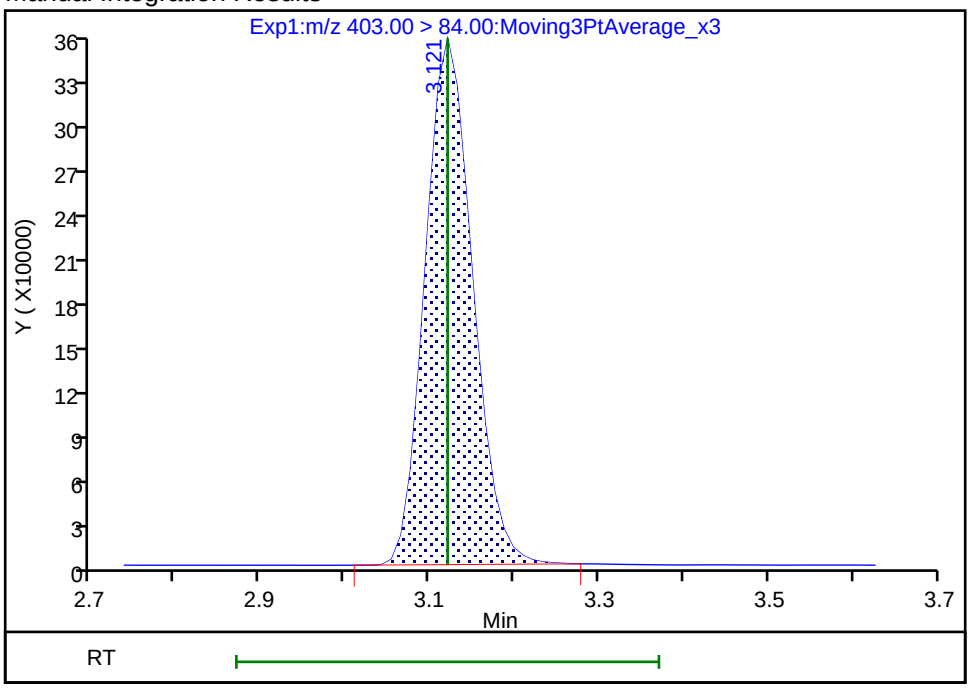
Processing Integration Results

RT: 3.12
Area: 1380739
Amount: 1.059014
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 1371645
Amount: 1.052039
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:11:26

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

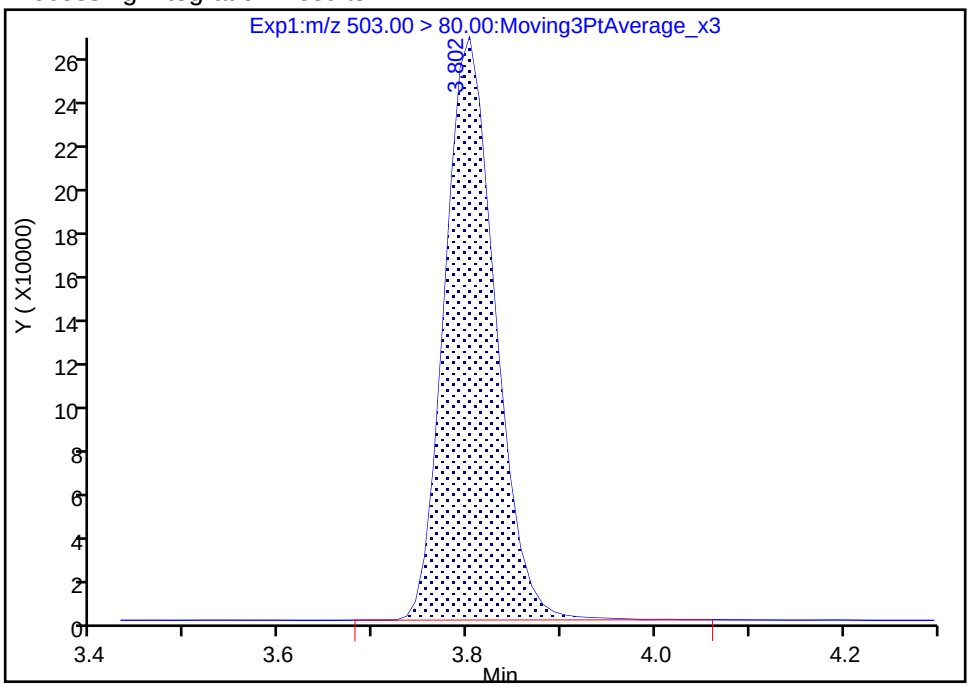
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

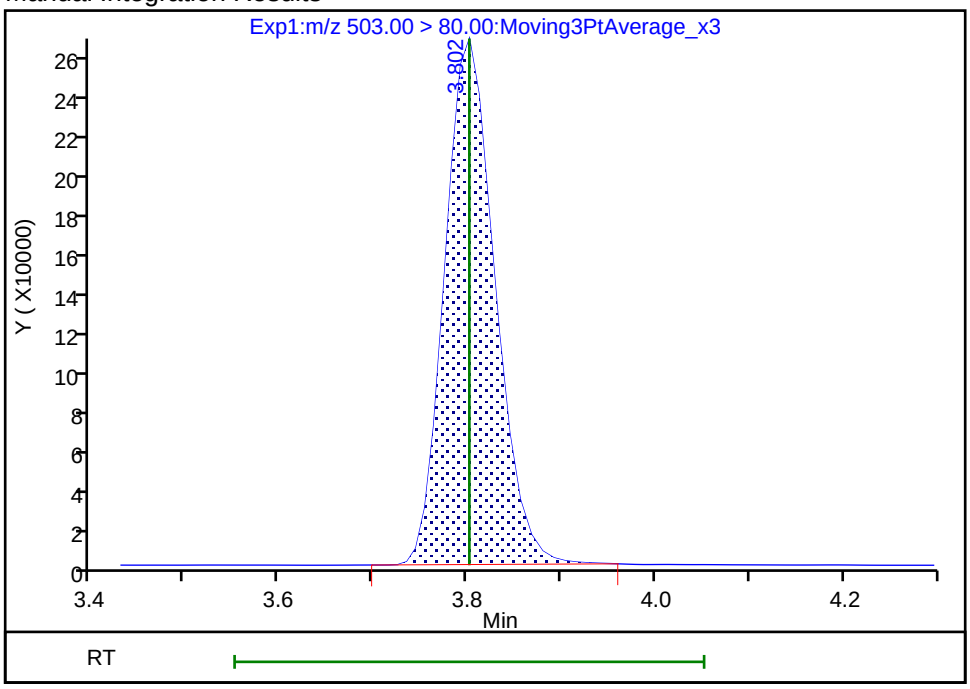
Processing Integration Results

RT: 3.80
Area: 968159
Amount: 0.945234
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 963595
Amount: 0.940778
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:11:55

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

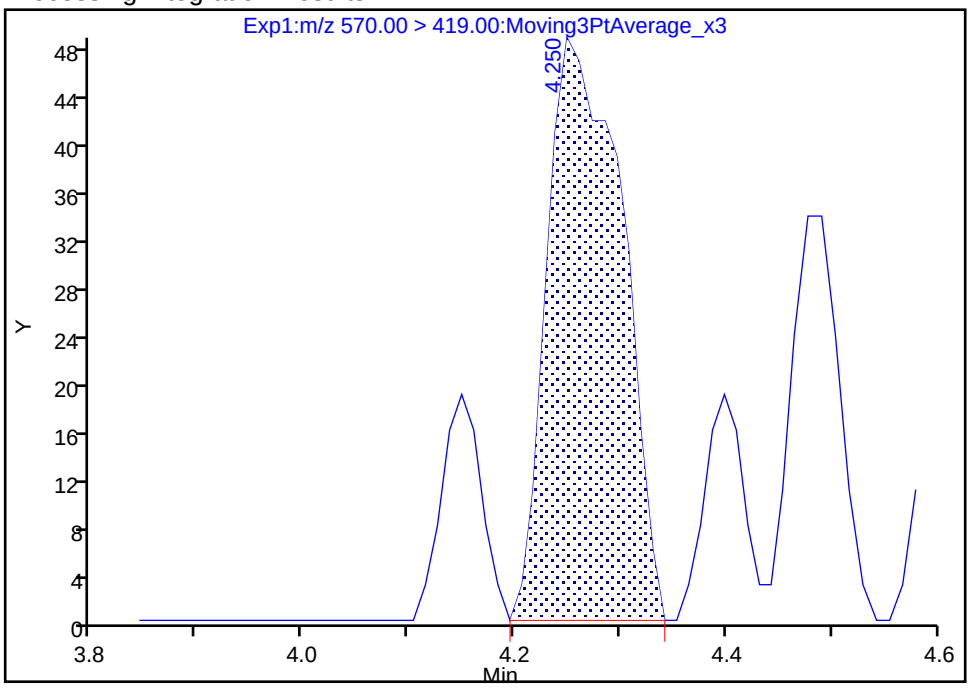
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

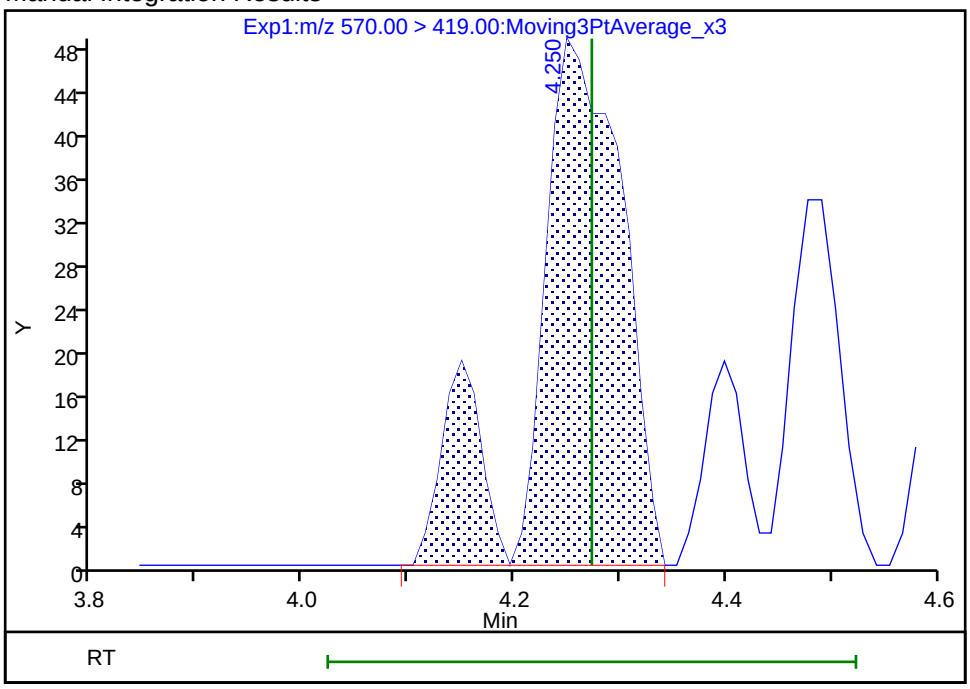
Processing Integration Results

RT: 4.25
Area: 241
Amount: 0.001390
Amount Units: ng/ml



Manual Integration Results

RT: 4.25
Area: 291
Amount: 0.001678
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:12:49

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

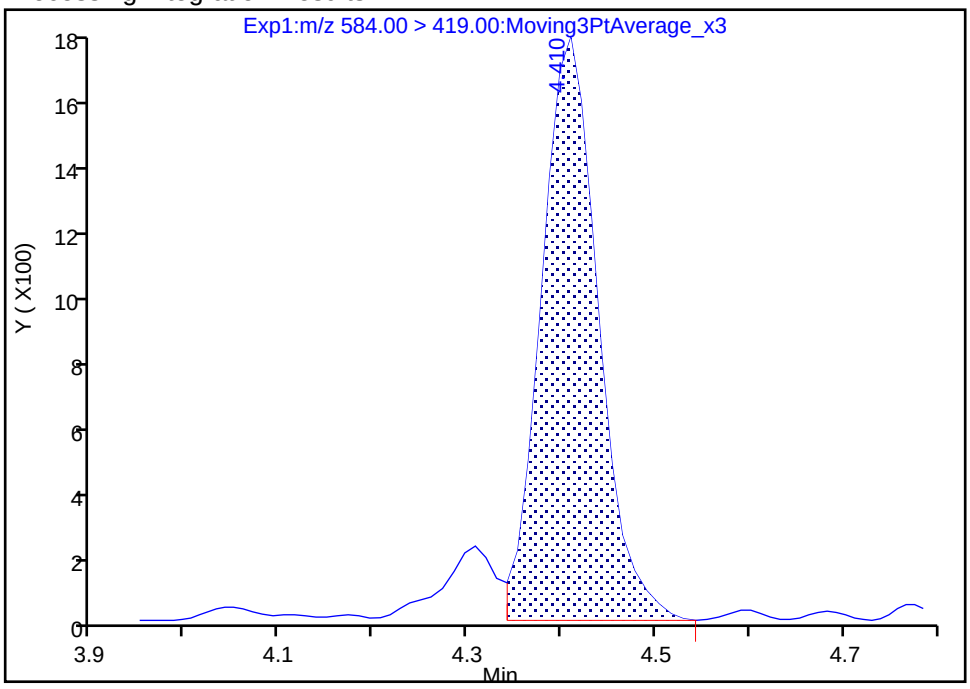
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

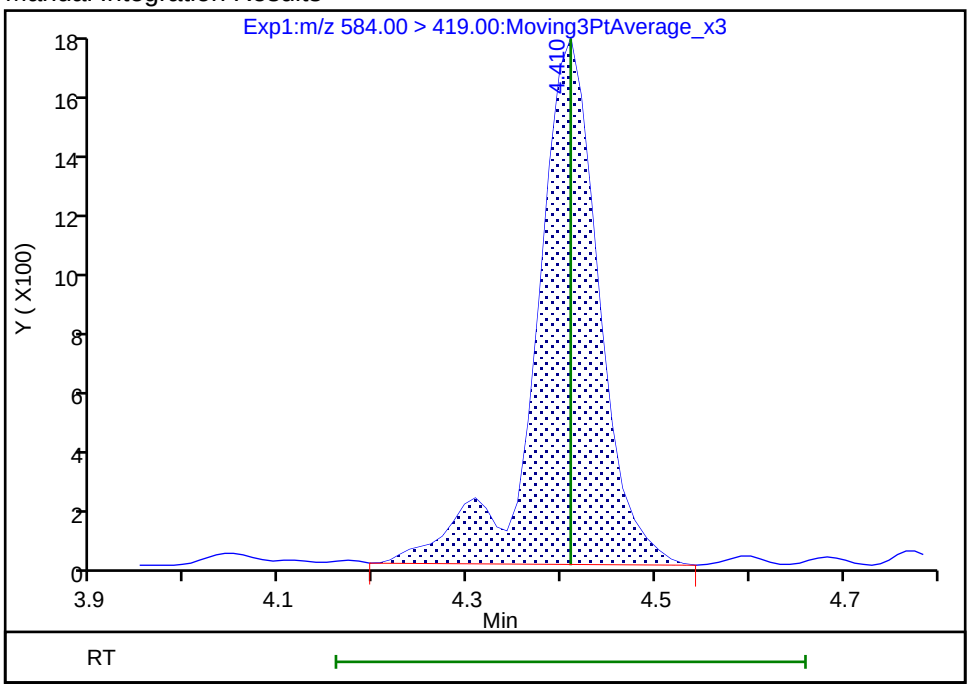
Processing Integration Results

RT: 4.41
Area: 7462
Amount: 0.042270
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 8282
Amount: 0.046915
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:57:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

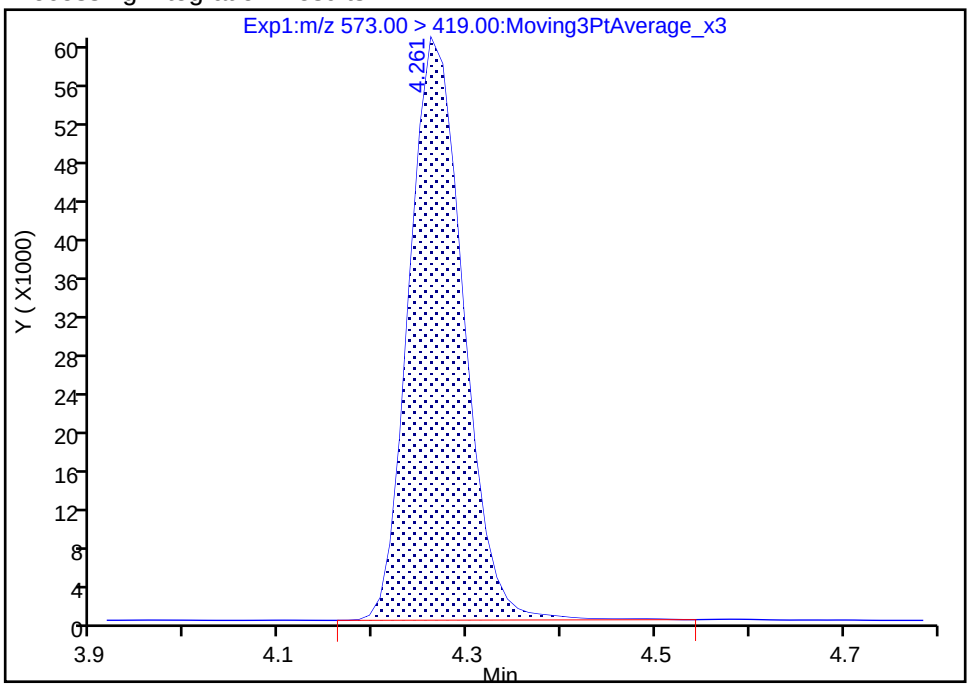
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

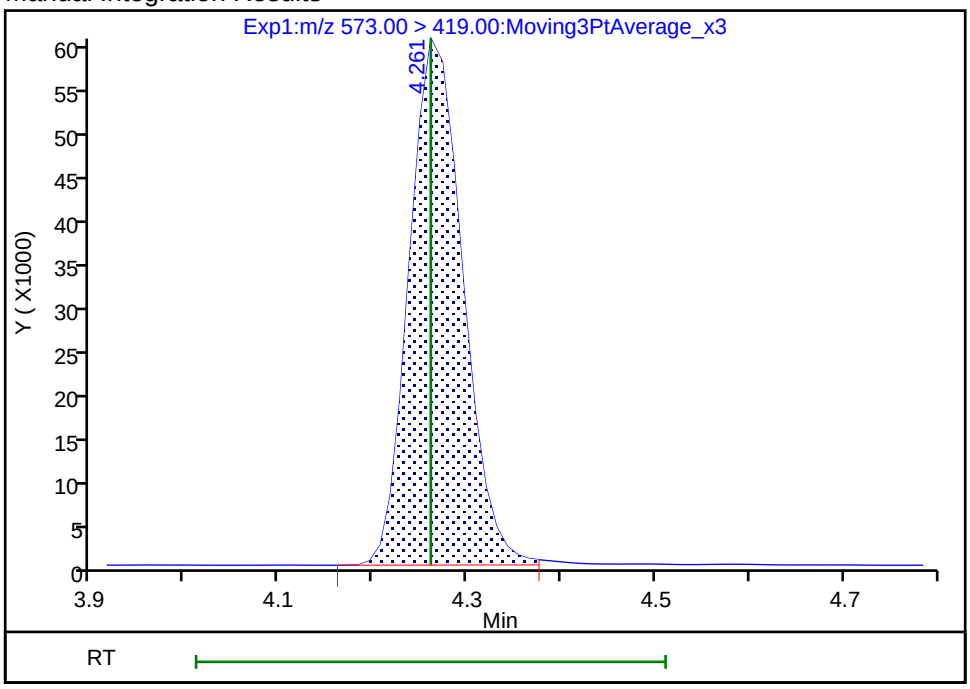
Processing Integration Results

RT: 4.26
Area: 239773
Amount: 1.294455
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 238331
Amount: 1.286670
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:53:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

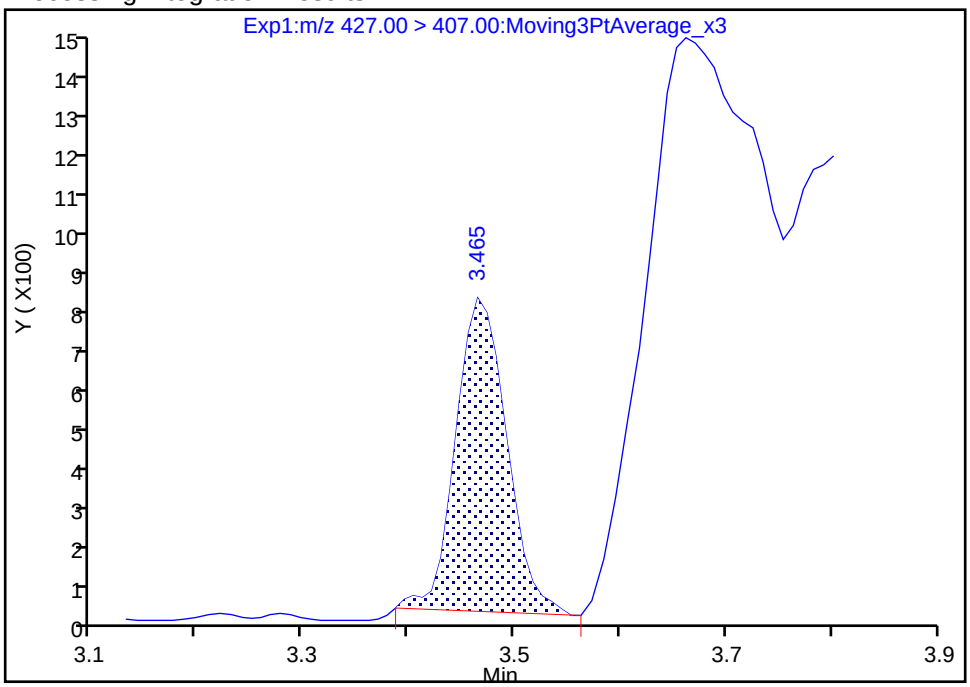
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

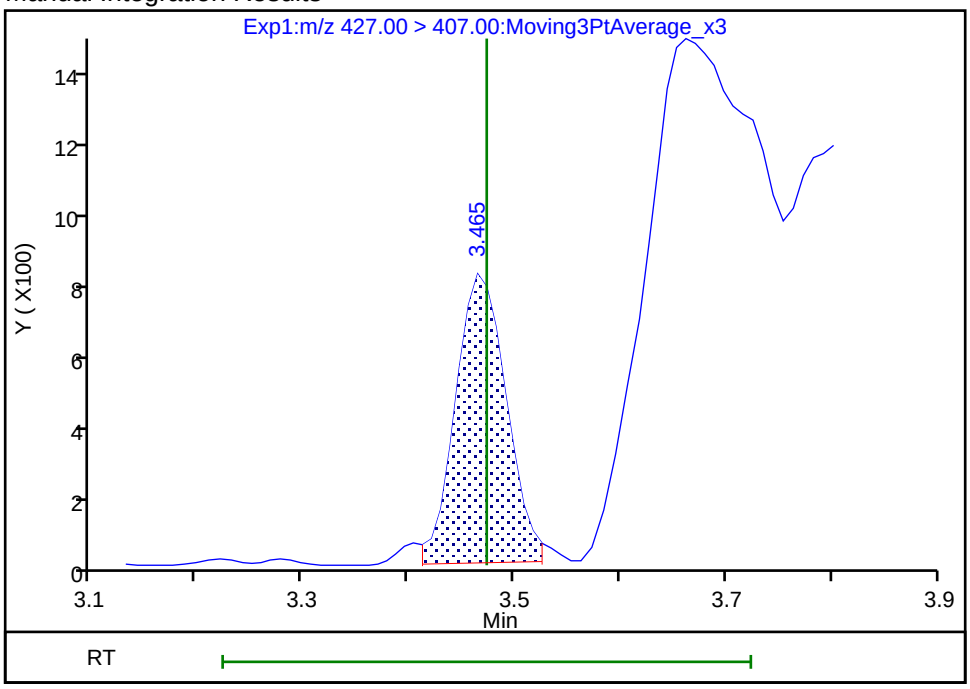
Processing Integration Results

RT: 3.47
Area: 2549
Amount: -0.018910
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 2582
Amount: -0.018799
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:55:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

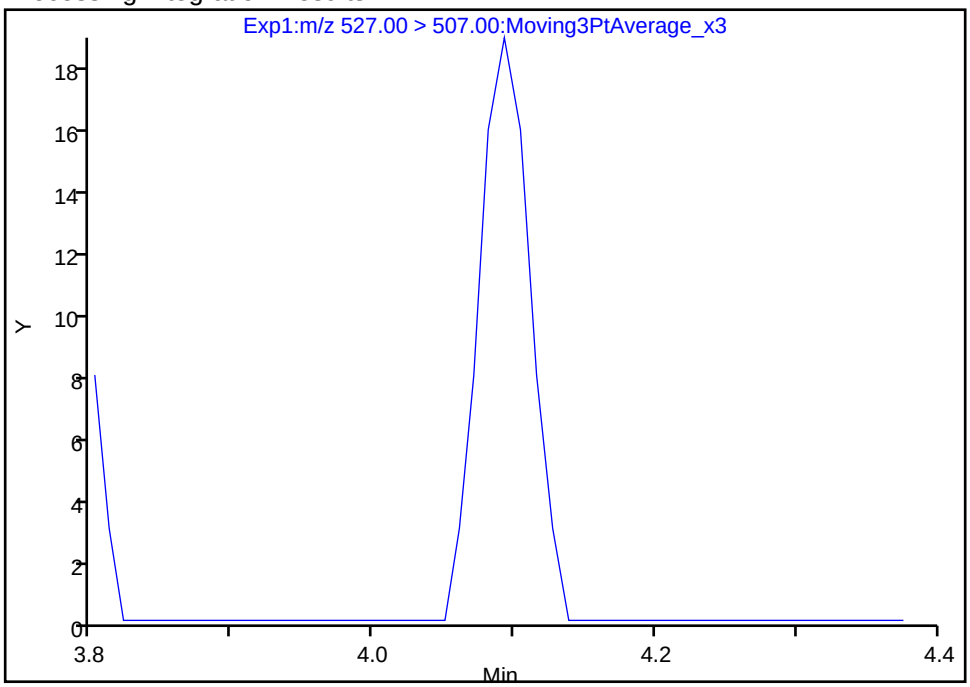
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A21.d				
Injection Date:	13-Jun-2022 19:52:29	Instrument ID:	LC812		
Lims ID:	480-198818-C-4-A	Lab Sample ID:	200-198818-4		
Client ID:	MW-6A				
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

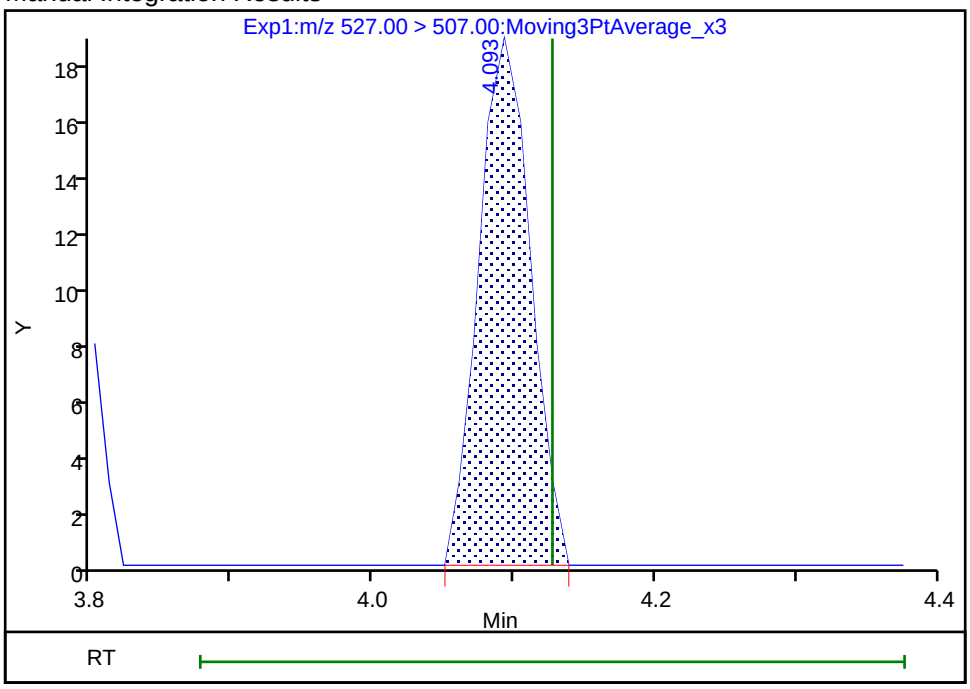
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.09
Area: 48
Amount: 0.000200
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:57:16
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-6B Lab Sample ID: 480-198818-5

Matrix: Water Lab File ID: PA220613A22.d

Analysis Method: 537 (modified) Date Collected: 06/08/2022 12:15

Extraction Method: 3535 Date Extracted: 06/13/2022 08:55

Sample wt/vol: 282.6(mL) Date Analyzed: 06/13/2022 20:00

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 180744 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
375-22-4	Perfluorobutanoic acid (PFBA)	ND		4.4	
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.8	
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.8	
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.8	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.8	
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.8	
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.8	
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.8	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.8	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.8	
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.8	
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4	
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4	
27619-97-2	6:2 FTS	ND		4.4	
39108-34-4	8:2 FTS	ND		1.8	

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-6B Lab Sample ID: 480-198818-5

Matrix: Water Lab File ID: PA220613A22.d

Analysis Method: 537 (modified) Date Collected: 06/08/2022 12:15

Extraction Method: 3535 Date Extracted: 06/13/2022 08:55

Sample wt/vol: 282.6(mL) Date Analyzed: 06/13/2022 20:00

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 180744 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	80		50-150
STL00992	13C4 PFBA	147		50-150
STL01893	13C5 PFPeA	111		50-150
STL00993	13C2 PFHxA	103		50-150
STL01892	13C4 PFHpA	107		50-150
STL00990	13C4 PFOA	100		50-150
STL00995	13C5 PFNA	109		50-150
STL00996	13C2 PFDA	96		50-150
STL00997	13C2 PFUnA	105		50-150
STL00998	13C2 PFDoA	80		50-150
STL02116	13C2 PFTeDA	87		50-150
STL02337	13C3 PFBS	93		50-150
STL00994	18O2 PFHxS	90		50-150
STL00991	13C4 PFOS	86		50-150
STL02118	d3-NMeFOSAA	112		50-150
STL02117	d5-NEtFOSAA	135		50-150
STL02279	M2-6:2 FTS	96		50-150
STL02280	M2-8:2 FTS	93		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d
Lims ID: 480-198818-D-5-A
Client ID: MW-6B
Sample Type: Client
Inject. Date: 13-Jun-2022 20:00:40 ALS Bottle#: 19 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-198818-D-5-A
Misc. Info.: 200-0051257-022 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 14-Jun-2022 14:35:47 Calib Date: 05-May-2022 15:54:29
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1636

First Level Reviewer: khanphomeea Date: 14-Jun-2022 12:02:31
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	2.085	2.085	0.0	0.599	2343423	1.83		147	8478	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.093	-0.008	1.000	78260	0.0442			8.4	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.400	0.0	0.689	1354828	1.39		111	2227	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.386	2.400	-0.014	0.994	9270	0.008392			0.3	M
D 47 13C3 PFBS										
301.90 > 80.00	2.413	2.427	-0.014	0.693	1533164	1.08		93.0	104111	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.413	2.427	-0.014	1.000	13522	0.009406	Target=2.15		3.8	M
298.90 > 99.00	2.413	2.427	-0.014	1.000	7933		1.70(1.07-3.22)		1.8	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.749	2.762	-0.013	0.790	1282275	1.28		103	3425	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.749	2.762	-0.013	1.000	16530	0.0149	Target=12.59		2.0	
313.00 > 119.00	2.762	2.762	0.0	1.004	2193		7.54(6.29-18.88)		1.9	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.121	3.121	0.0	0.896	1185214	1.07		90.4	2704	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.121	3.121	0.0	1.000	11348	0.0102	Target=3.53		10.7	M
399.00 > 99.00	3.121	3.121	0.0	1.000	2623		4.33(1.76-5.29)		2.6	M
D 9 13C4 PFHpA										M
367.00 > 322.00	3.121	3.132	-0.011	0.896	1449175	1.34		107	1602	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.121	3.132	-0.011	1.000	13250	0.0113	Target=3.75		1.7	M
363.00 > 169.00	3.121	3.132	-0.011	1.000	3093		4.28(1.87-5.62)		3.4	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Perfluoroheptanesulfonic acid										RM
449.00 > 80.00	3.472	3.474	-0.002	0.914	359	0.000396	Target=4.90		1.4	RM
449.00 > 99.00	3.481	3.474	0.007	0.916	341		1.05(2.45-7.35)		1.3	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.472	3.474	-0.002	0.998	205809	1.14		95.8	264	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.472	3.474	-0.002	1.000	2720	-0.0172			1.2	
* 62 13C2 PFOA										
415.00 > 370.00	3.481	3.482	-0.001		1506235	1.25			3045	
D 14 13C4 PFOA										M
417.00 > 372.00	3.481	3.482	-0.001	1.000	1415338	1.25		99.8	1665	M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.481	3.482	-0.001	1.000	35338	0.0279	Target=2.68		2.1	M
413.00 > 169.00	3.481	3.482	-0.001	1.000	12555		2.81(1.34-4.02)		18.8	M
D 18 13C4 PFOS										M
503.00 > 80.00	3.801	3.802	-0.001	1.092	900480	1.03		86.5	1629	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.801	3.802	-0.001	1.000	36560	0.0454	Target=4.47		30.6	M
499.00 > 99.00	3.801	3.802	-0.001	1.000	6740		5.42(2.24-6.71)		10.8	M
D 19 13C5 PFNA										
468.00 > 423.00	3.811	3.822	-0.011	1.095	1677960	1.36		109	2563	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.821	3.822	-0.001	1.003	5751	0.004430	Target=7.74		1.1	
463.00 > 169.00	3.821	3.822	-0.001	1.003	758		7.59(3.87-11.61)		9.0	M
D 23 13C2 PFDA										M
515.00 > 470.00	4.115	4.127	-0.012	1.182	1428948	1.20		96.3	2296	M
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.115	4.127	-0.012	1.000	4507	0.003701	Target=9.31		1.5	M
513.00 > 169.00	4.115	4.127	-0.012	1.000	562		8.02(4.65-13.96)		2.3	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.115	4.127	-0.012	0.997	393	0.001741			5.0	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.127	4.127	0.0	1.185	242863	1.12		93.3	599	
D 21 13C8 FOSA										M
506.00 > 78.00	4.184	4.195	-0.011	1.202	1307453	1.00		80.1	1494	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.184	4.195	-0.011	1.000	2209	0.002081			7.3	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.261	4.261	0.0	1.224	220310	1.40		112	1229	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.273	4.273	0.0	1.003	434	0.002708			1.6	
D 30 13C2 PFUnA										M
565.00 > 520.00	4.387	4.387	0.0	1.260	1252093	1.31		105	2265	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.398	4.398	0.0	1.263	259286	1.68		135	1282	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.410	4.410	0.0	1.003	436	0.002241			2.9	M

Report Date: 14-Jun-2022 14:36:12 Chrom Revision: 2.3 18-May-2022 20:00:04
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 36 13C2 PFDoA										M
615.00 > 570.00	4.622	4.633	-0.011	1.328	1022629	1.00		80.4	1391	M
42 Perfluorotetradecanoic acid										RM
713.00 > 169.00	5.012	5.032	-0.020	0.994	113	0.001009	Target=0.96		2.5	RM
713.00 > 219.00	5.042	5.032	0.010	1.000	248		0.46(0.48-1.44)		9.9	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.042	5.042	0.0	1.448	905865	1.09		87.1	2252	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

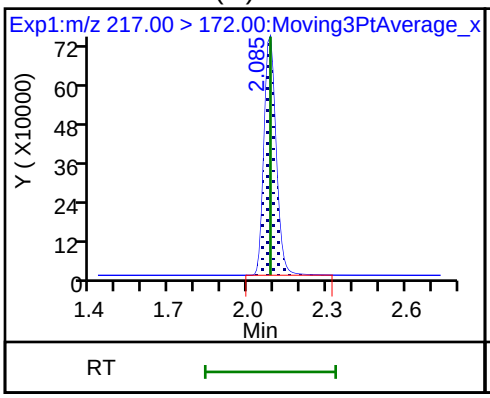
Report Date: 14-Jun-2022 14:36:12 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Burlington

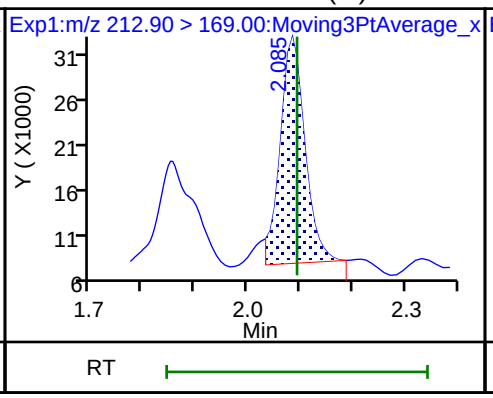
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d

Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		

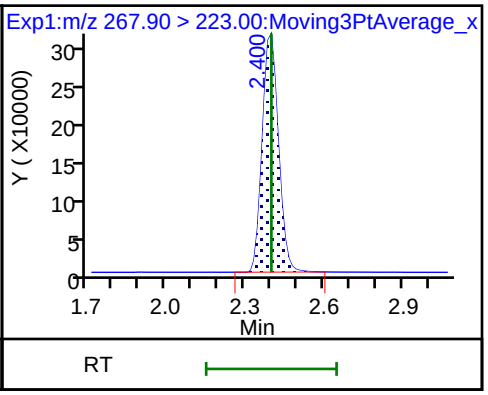
D 1 13C4 PFBA (M)



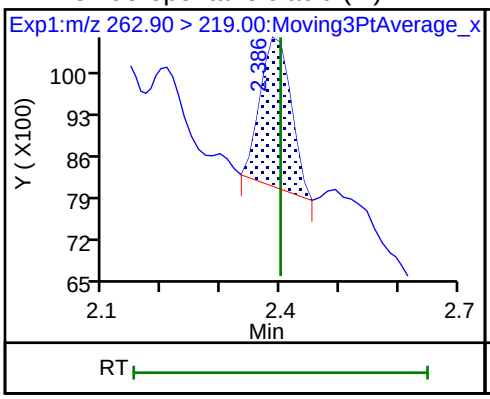
2 Perfluorobutanoic acid (M)



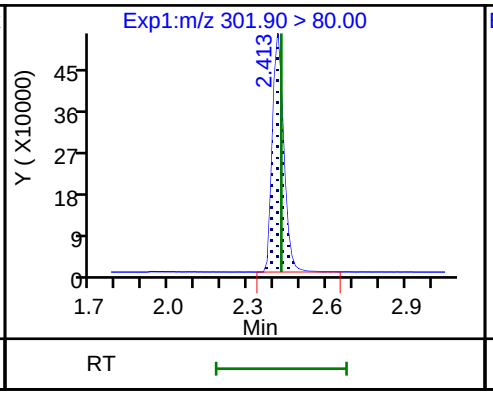
D 3 13C5 PFPeA



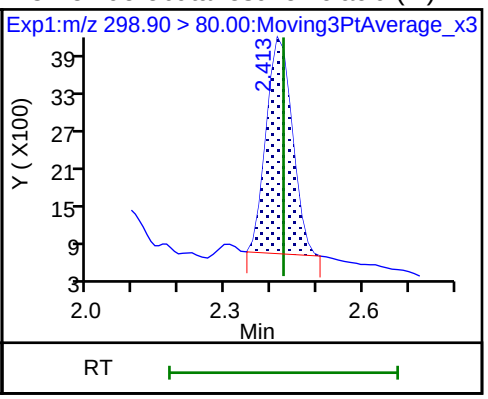
4 Perfluoropentanoic acid (M)



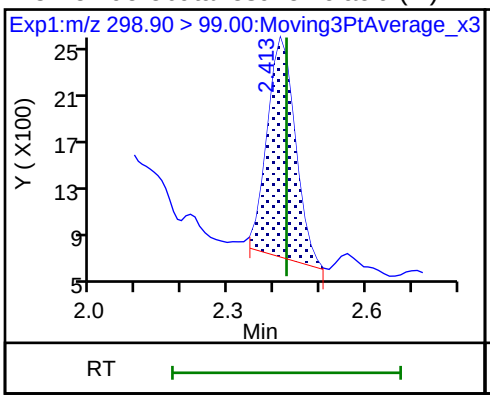
D 47 13C3 PFBS



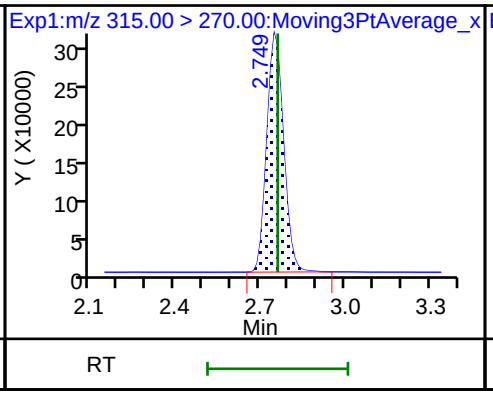
5 Perfluorobutanesulfonic acid (M)



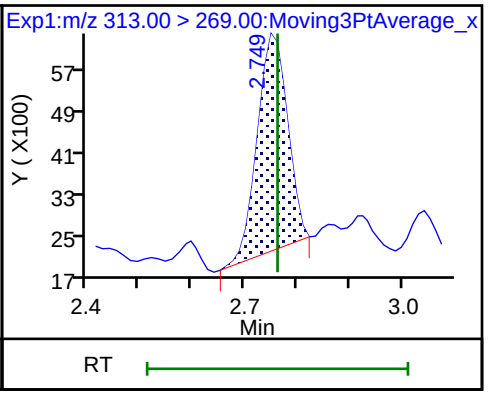
5 Perfluorobutanesulfonic acid (M)



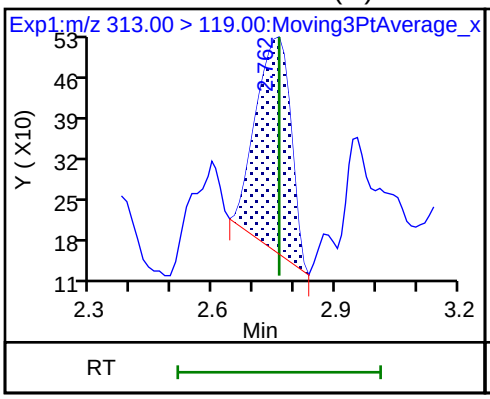
D 7 13C2 PFHxA



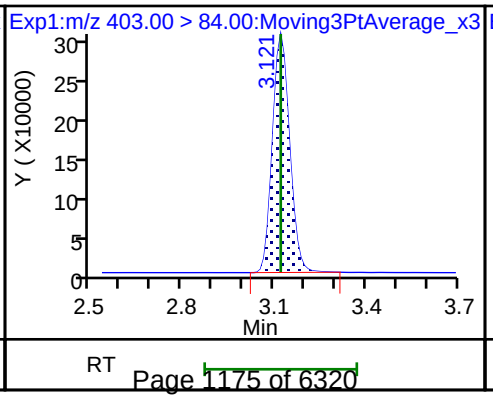
6 Perfluorohexanoic acid



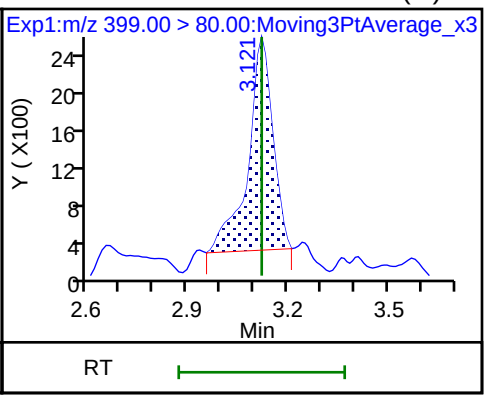
6 Perfluorohexanoic acid (M)



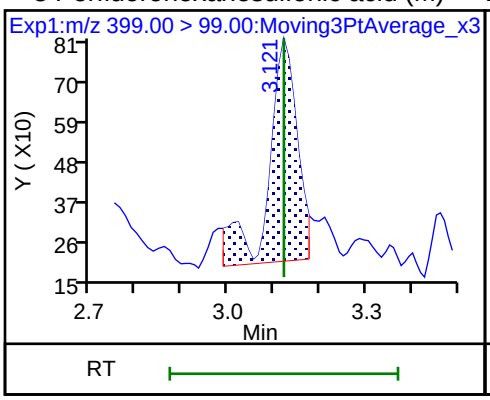
D 11 18O2 PFHxS



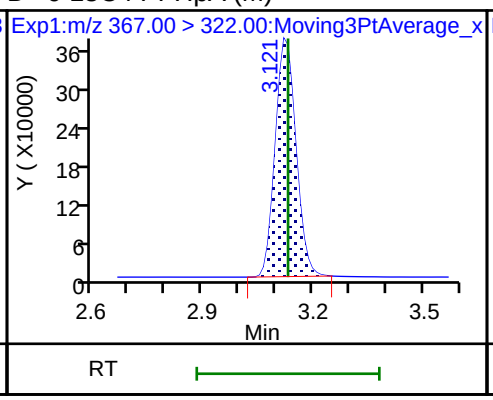
8 Perfluorohexanesulfonic acid (M)



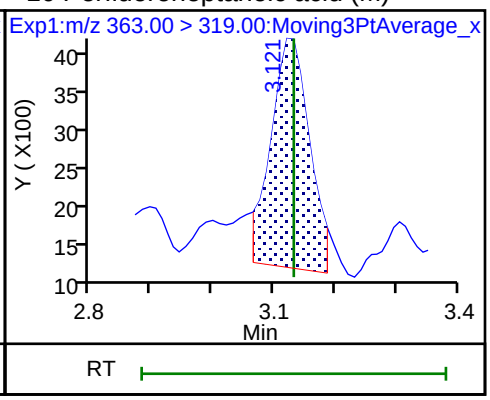
8 Perfluorohexanesulfonic acid (M)



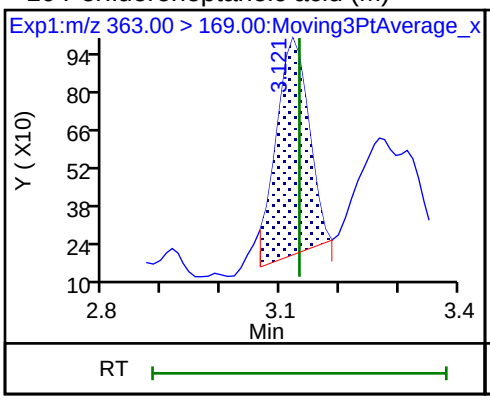
D 9 13C4 PFHpA (M)



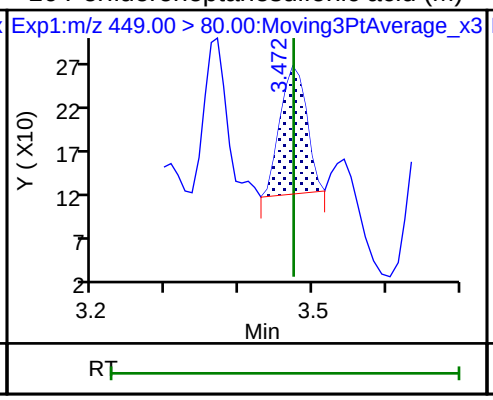
10 Perfluoroheptanoic acid (M)



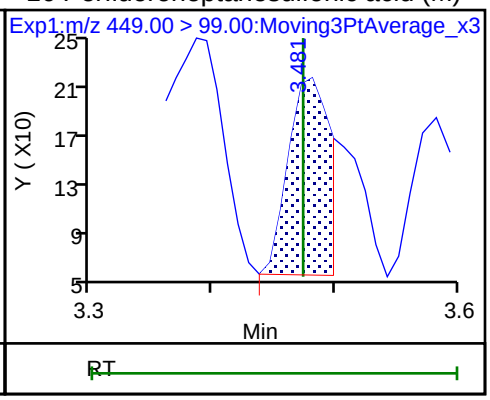
10 Perfluoroheptanoic acid (M)



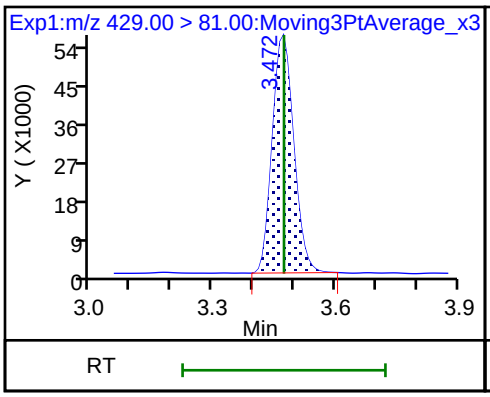
16 Perfluoroheptanesulfonic acid (M)



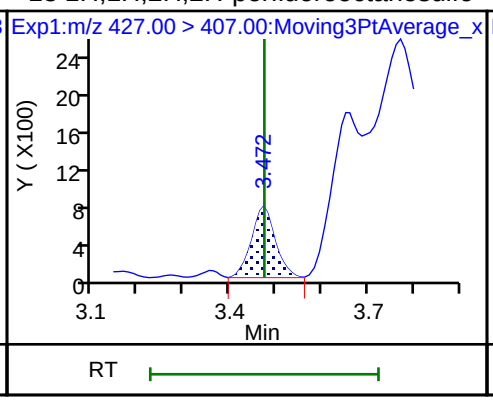
16 Perfluoroheptanesulfonic acid (M)

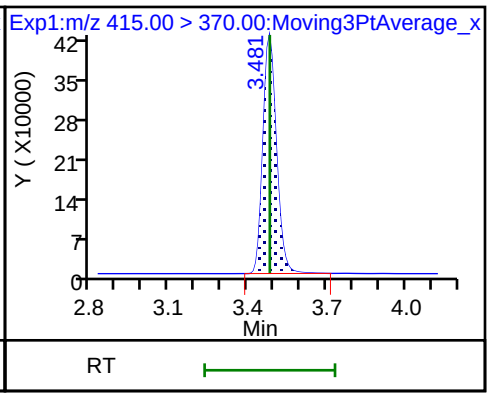


D 12 M2-6:2 FTS

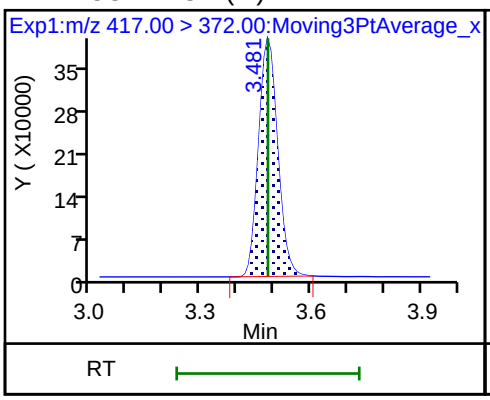


13 1H,1H,2H,2H-perfluorooctanesulfo * 62 13C2 PFOA

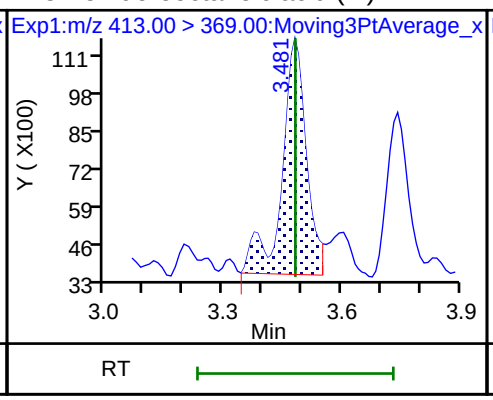




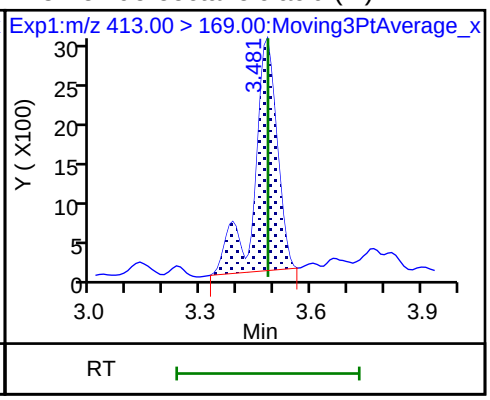
D 14 13C4 PFOA (M)



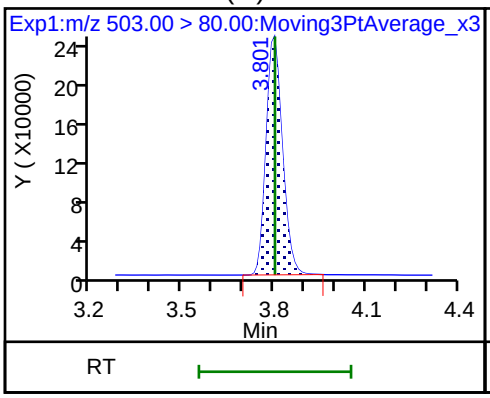
15 Perfluorooctanoic acid (M)



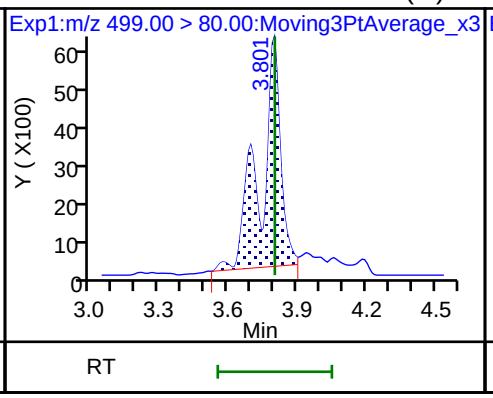
15 Perfluorooctanoic acid (M)



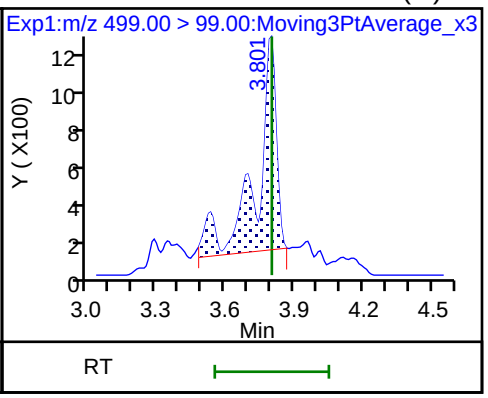
D 18 13C4 PFOS (M)



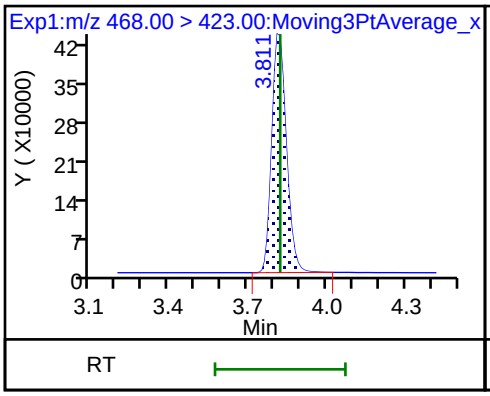
17 Perfluorooctanesulfonic acid (M)



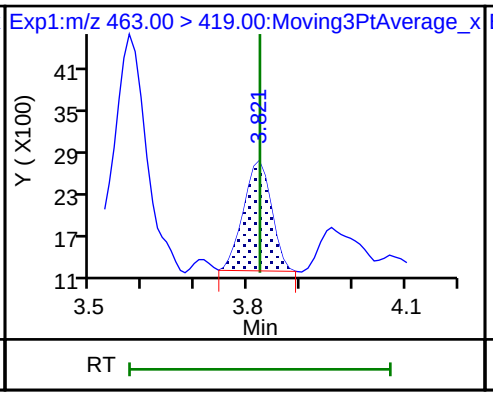
17 Perfluorooctanesulfonic acid (M)



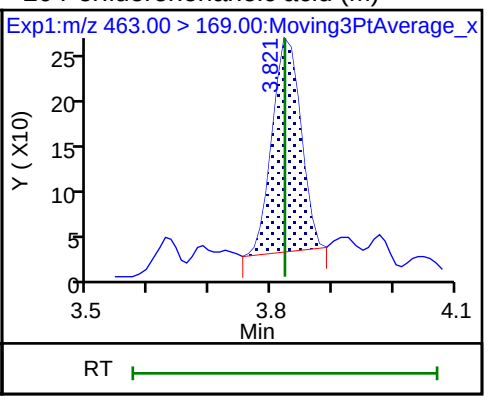
D 19 13C5 PFNA



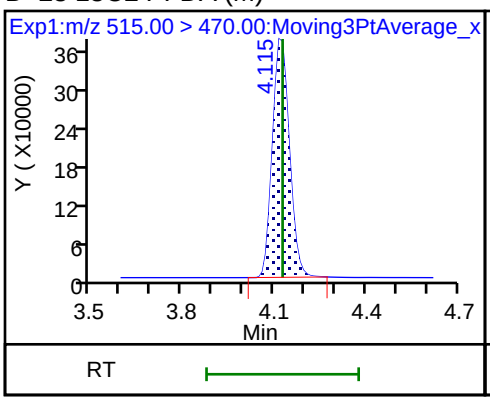
20 Perfluorononanoic acid



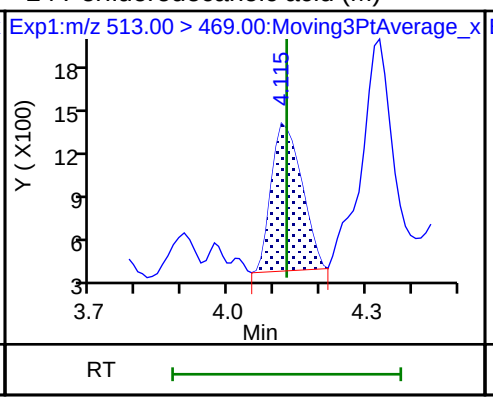
20 Perfluorononanoic acid (M)



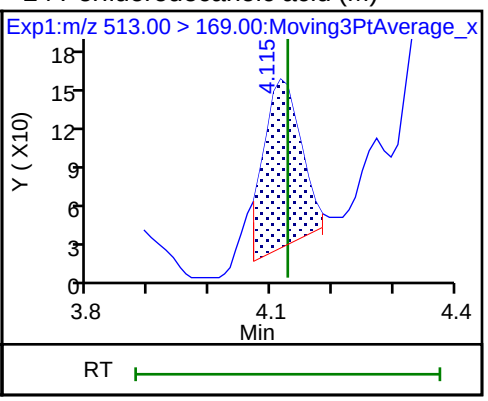
D 23 13C2 PFDA (M)



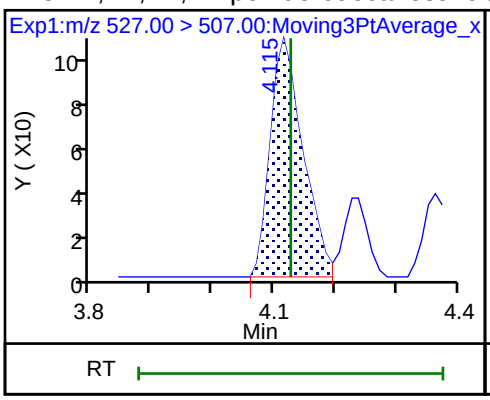
24 Perfluorodecanoic acid (M)



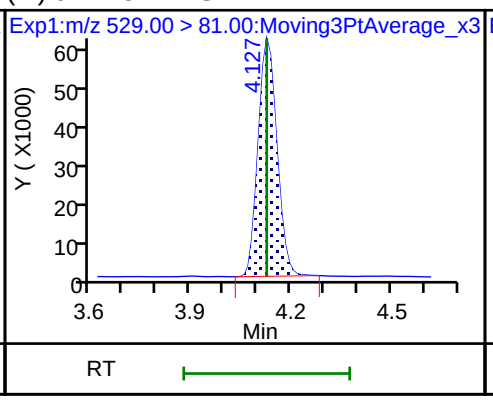
24 Perfluorodecanoic acid (M)



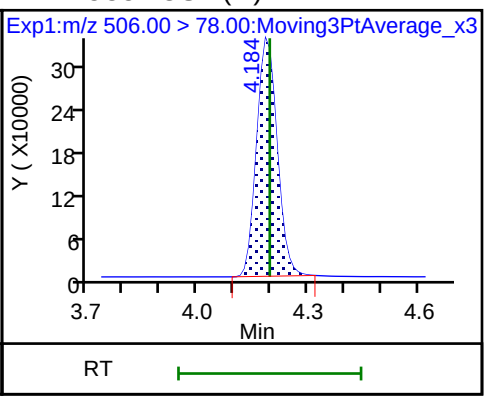
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



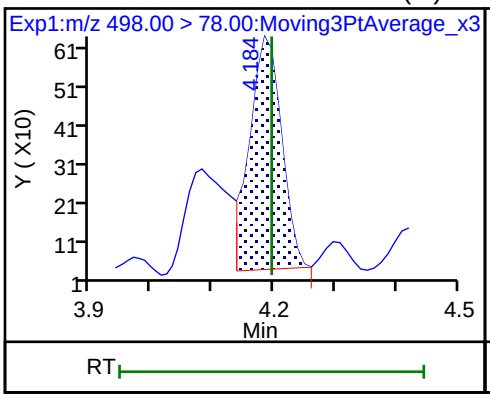
D 26 M2-8:2 FTS



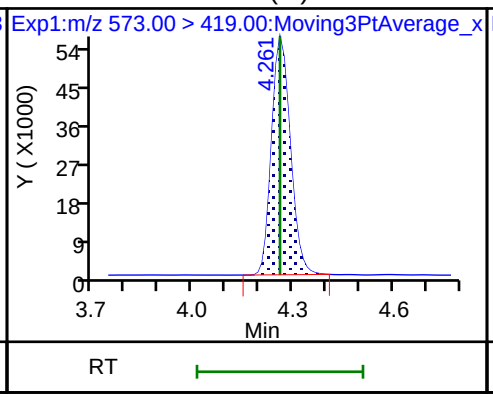
D 21 13C8 FOSA (M)



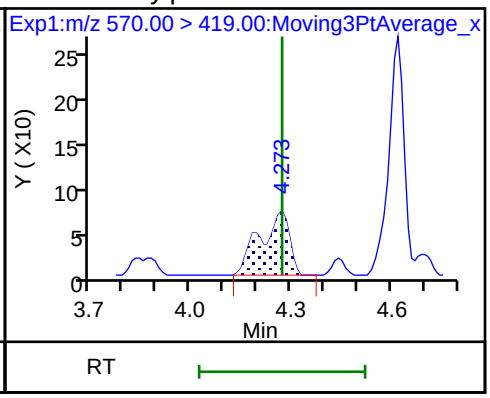
22 Perfluorooctanesulfonamide (M)



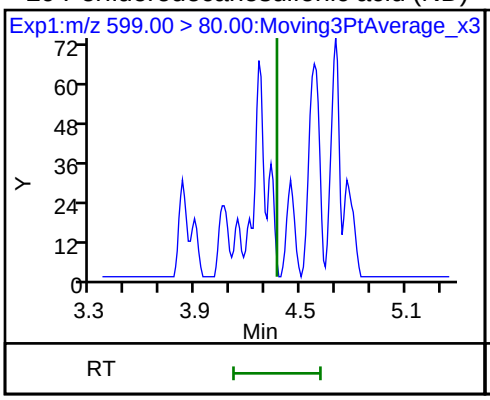
D 27 d3-NMeFOSAA (M)



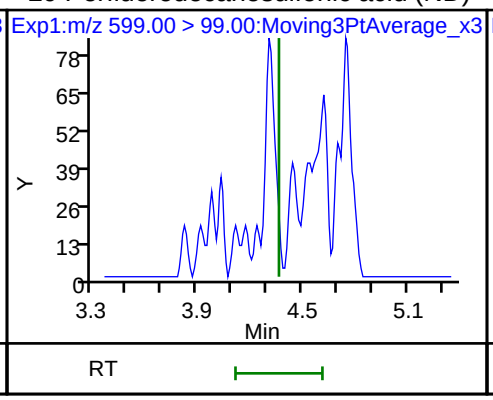
28 N-methylperfluorooctanesulfonami



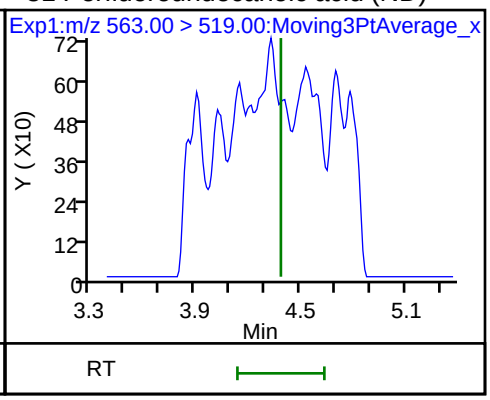
29 Perfluorodecanesulfonic acid (ND)



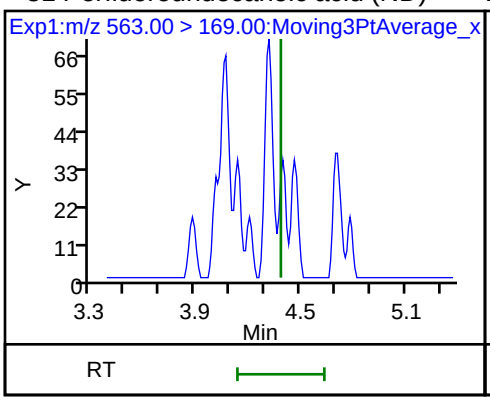
29 Perfluorodecanesulfonic acid (ND)



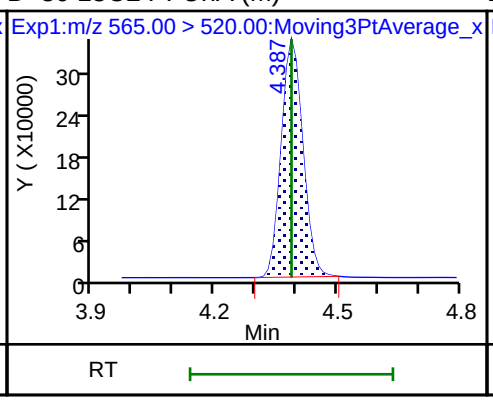
31 Perfluoroundecanoic acid (ND)



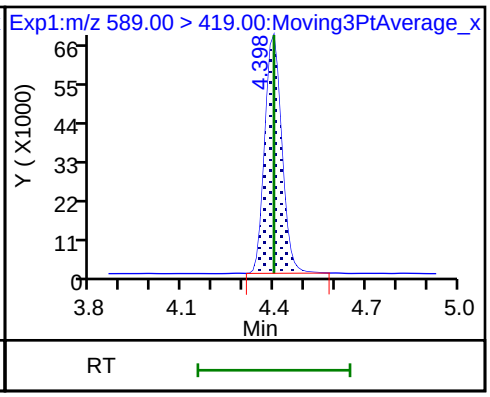
31 Perfluoroundecanoic acid (ND)



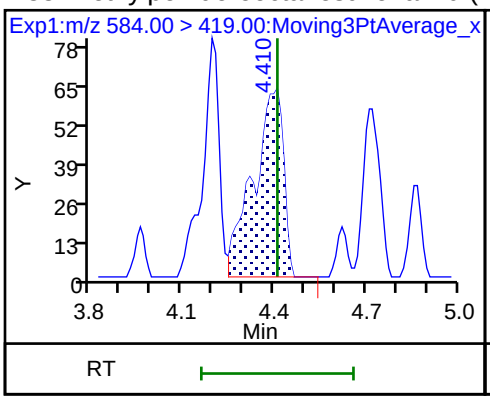
D 30 13C2 PFUnA (M)



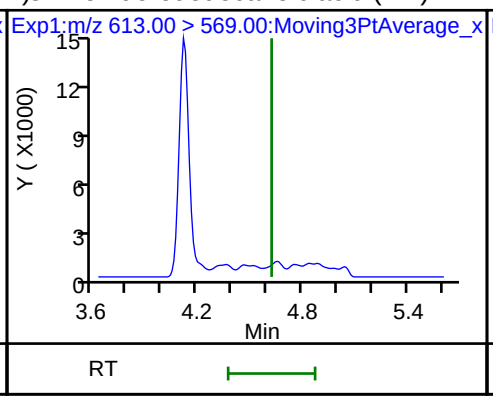
D 32 d5-NEtFOSAA



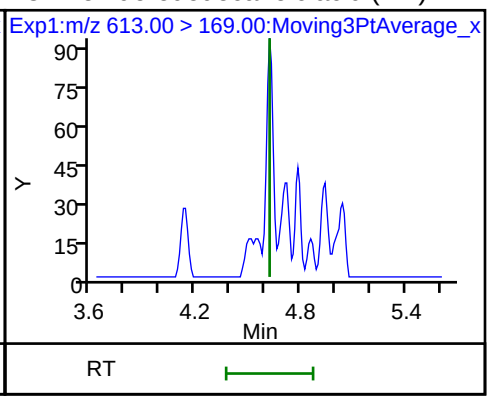
33 N-ethylperfluorooctanesulfonamid (M)



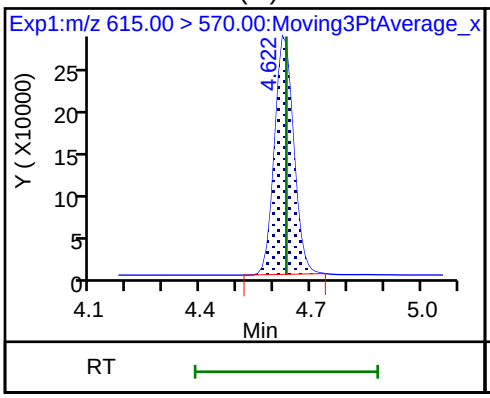
37 Perfluorododecanoic acid (ND)



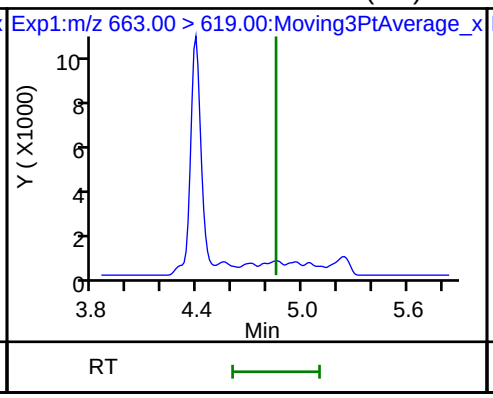
37 Perfluorododecanoic acid (ND)



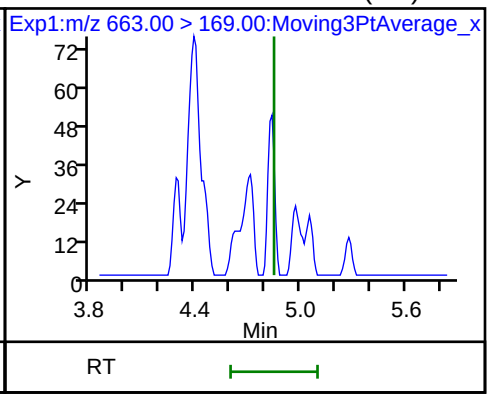
D 36 13C2 PFDoA (M)



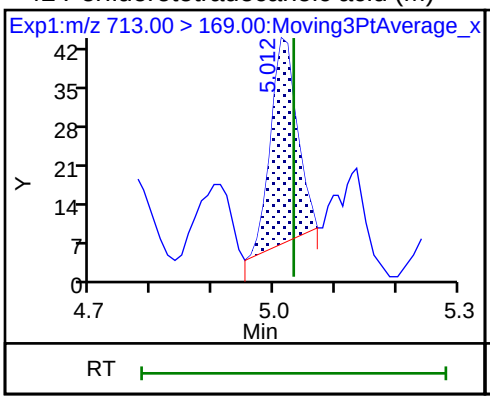
41 Perfluorotridecanoic acid (ND)



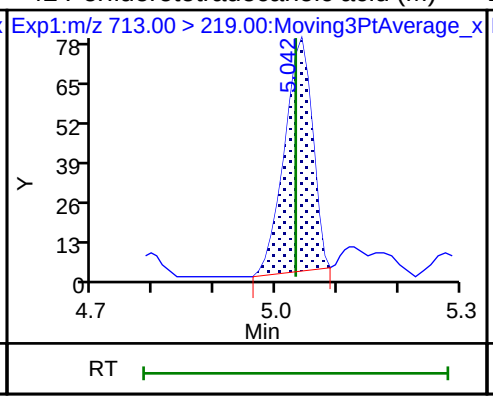
41 Perfluorotridecanoic acid (ND)



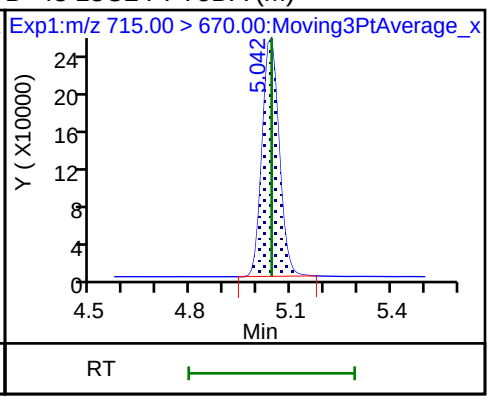
42 Perfluorotetradecanoic acid (M)



42 Perfluorotetradecanoic acid (M)



D 43 13C2 PFTeDA (M)



Manual Integration/User Assign Peak Report

Eurofins Burlington

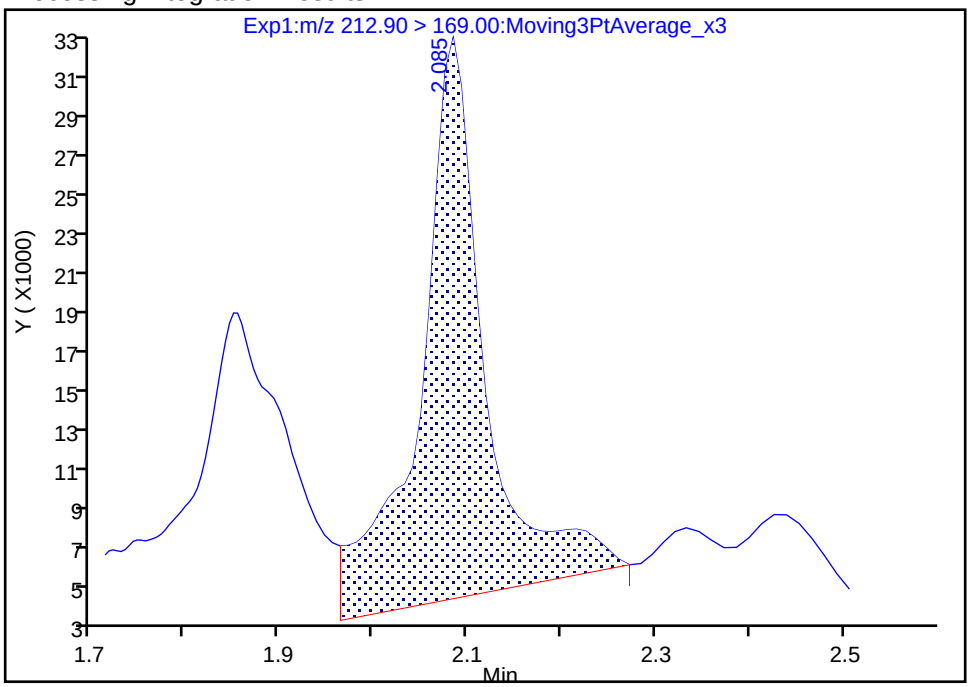
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

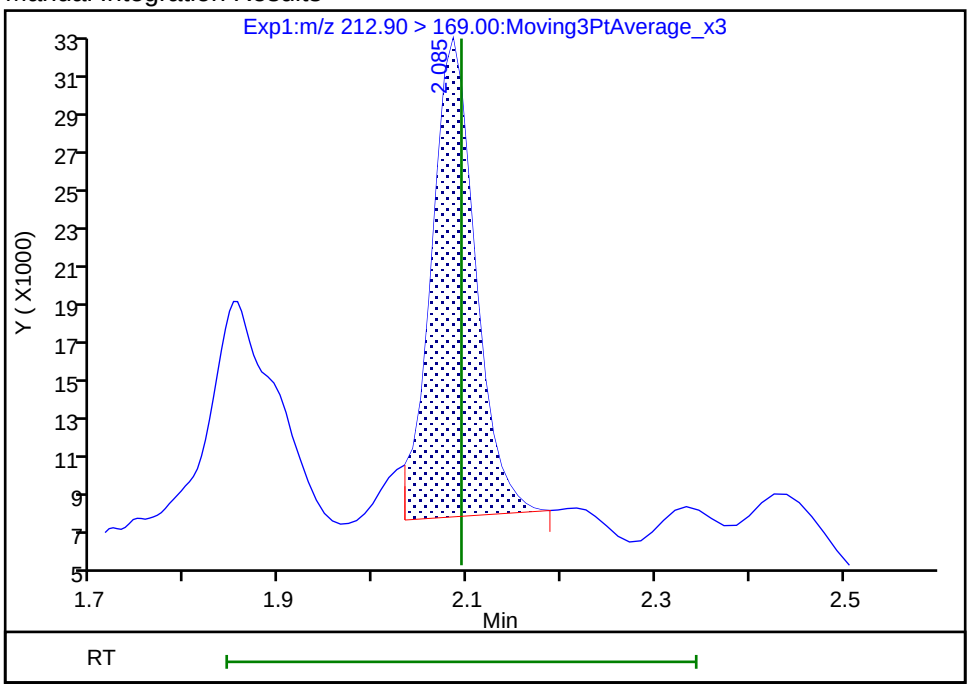
Processing Integration Results

RT: 2.08
Area: 130309
Amount: 0.073538
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 78260
Amount: 0.044235
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:58:57

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

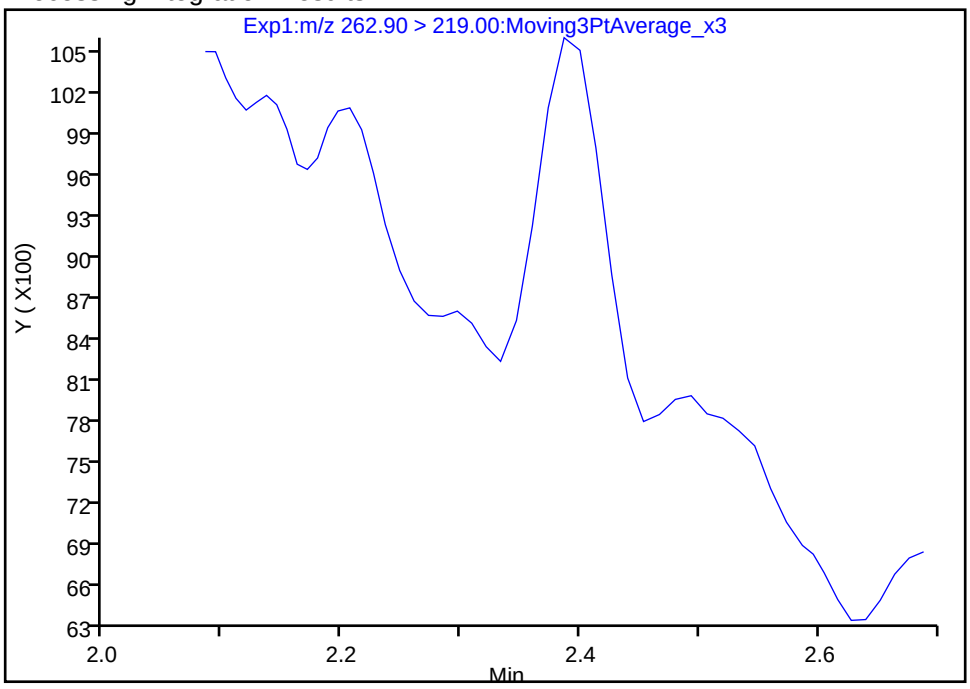
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

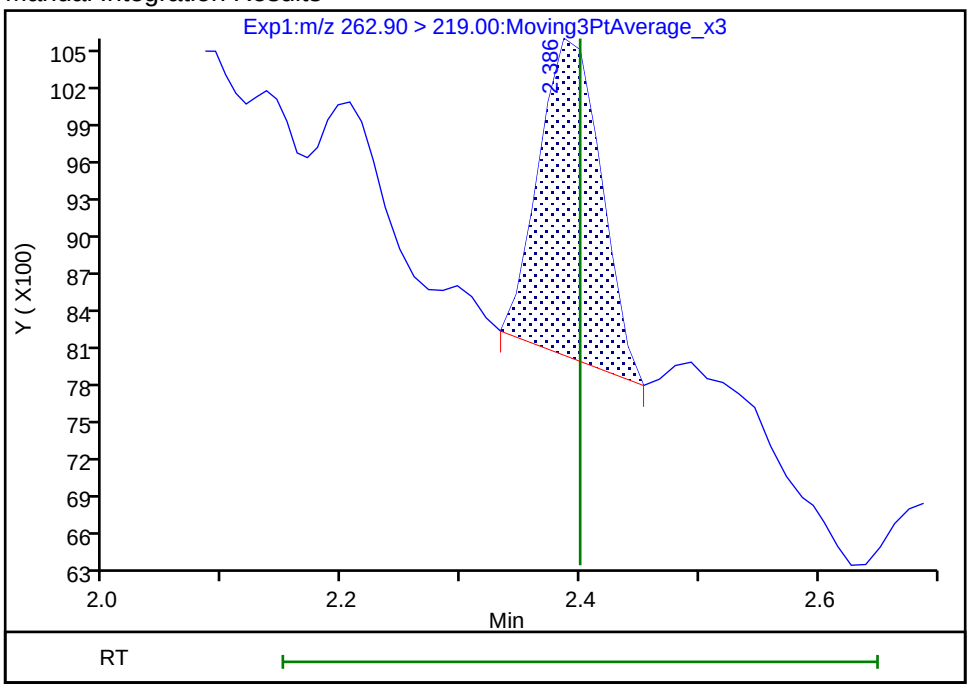
Processing Integration Results

Not Detected
Expected RT: 2.40



Manual Integration Results

RT: 2.39
Area: 9270
Amount: 0.008392
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:59:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

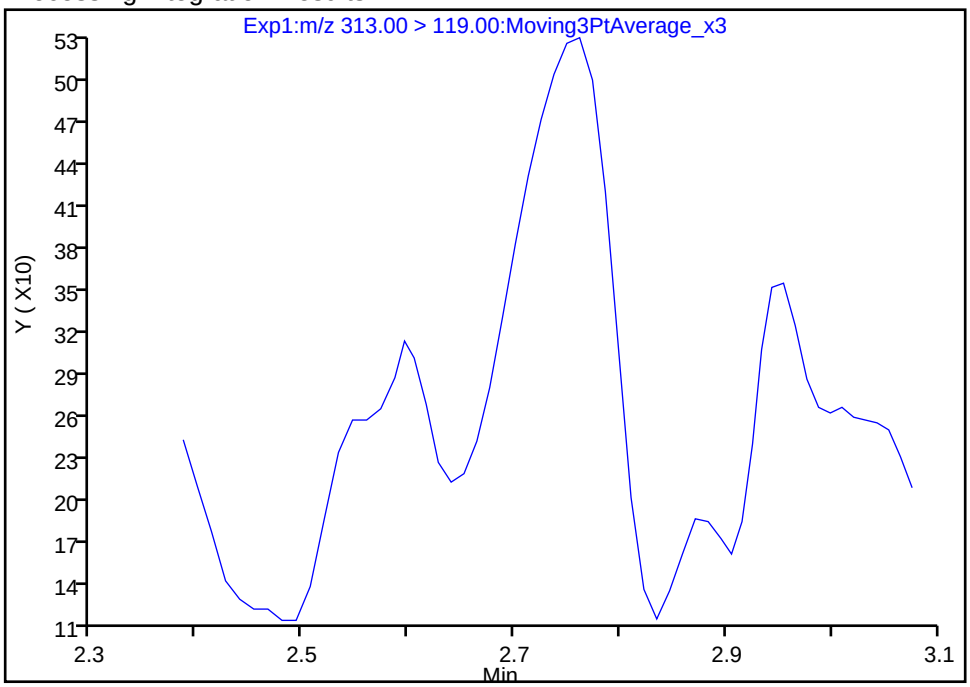
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

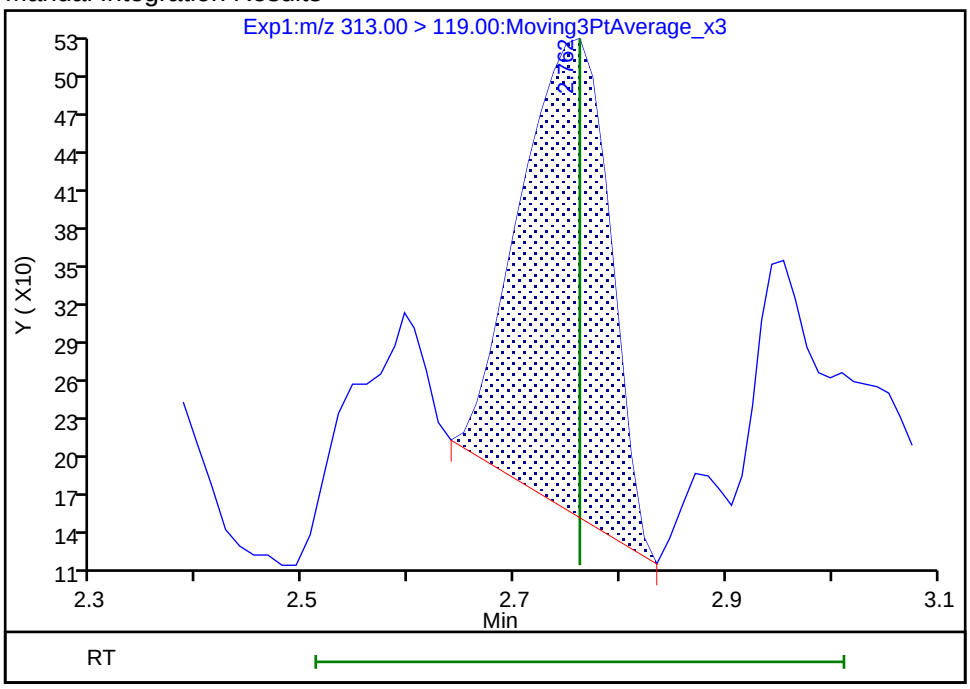
Not Detected
Expected RT: 2.76

Processing Integration Results



Manual Integration Results

RT: 2.76
Area: 2193
Amount: 0.014929
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:59:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

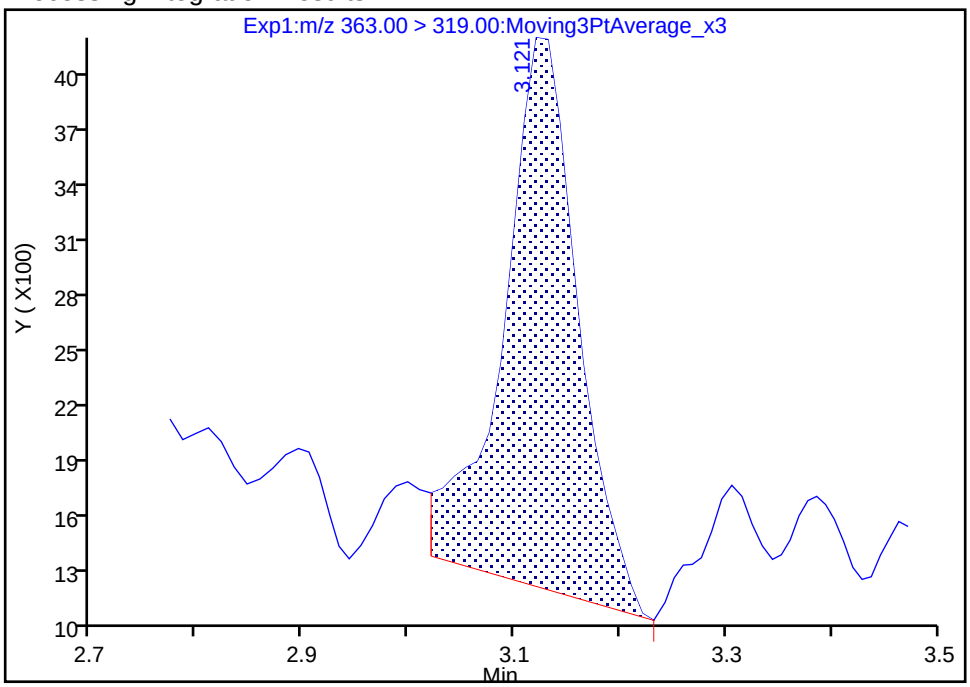
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

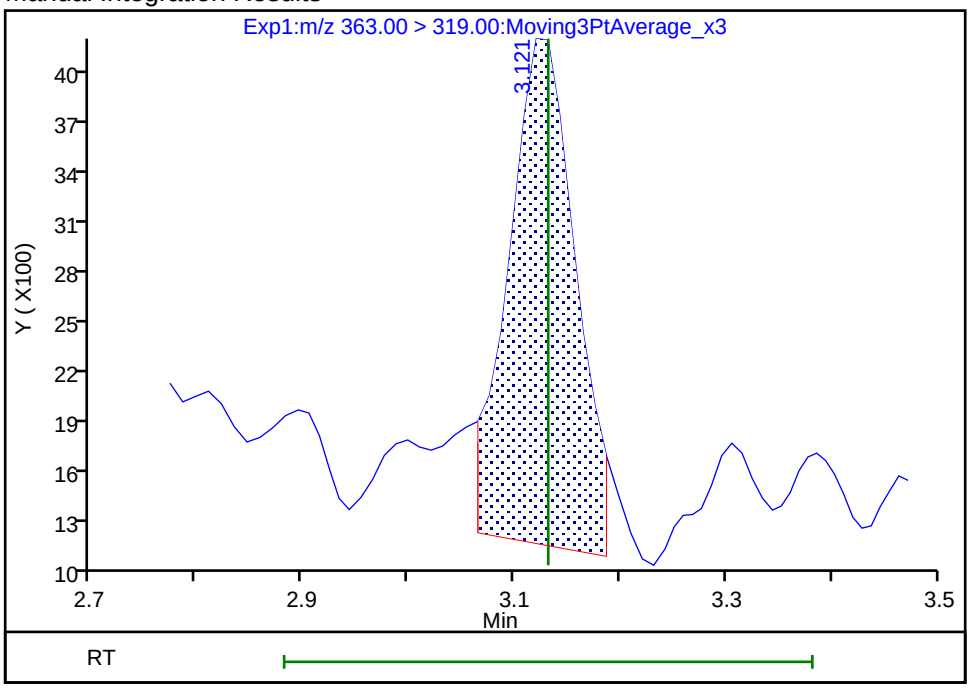
Processing Integration Results

RT: 3.12
Area: 14676
Amount: 0.012415
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 13250
Amount: 0.011309
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 12:00:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

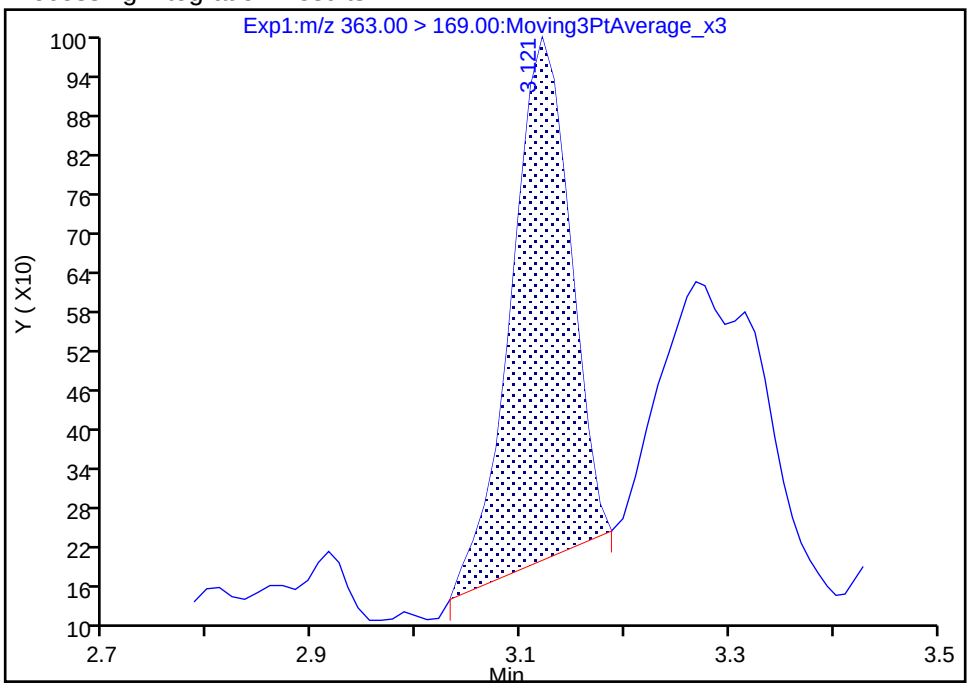
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

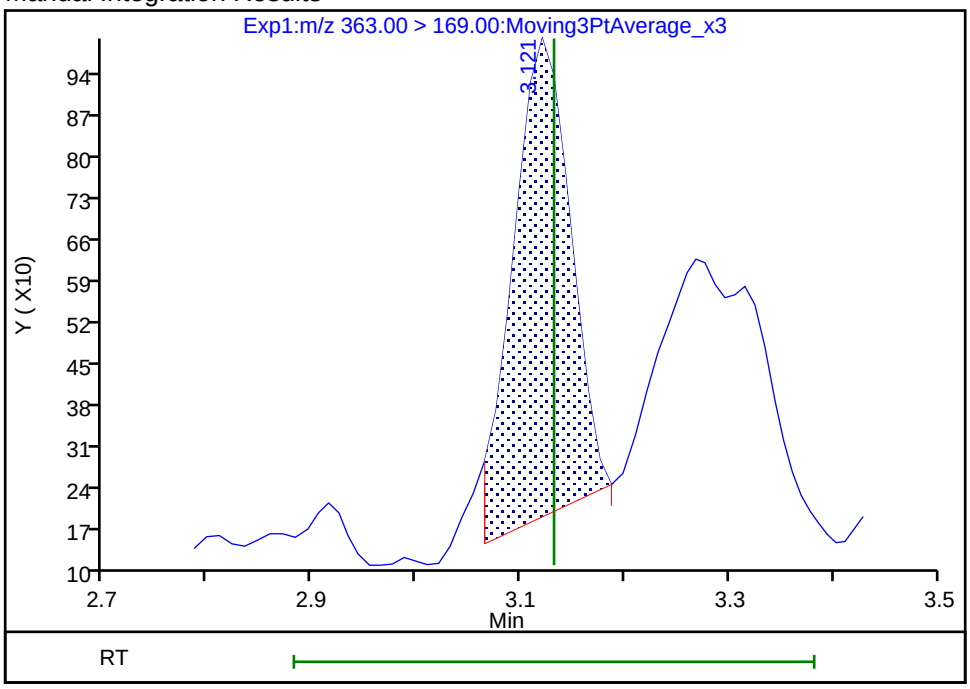
Processing Integration Results

RT: 3.12
Area: 3143
Amount: 0.012415
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 3093
Amount: 0.011309
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 12:00:04

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

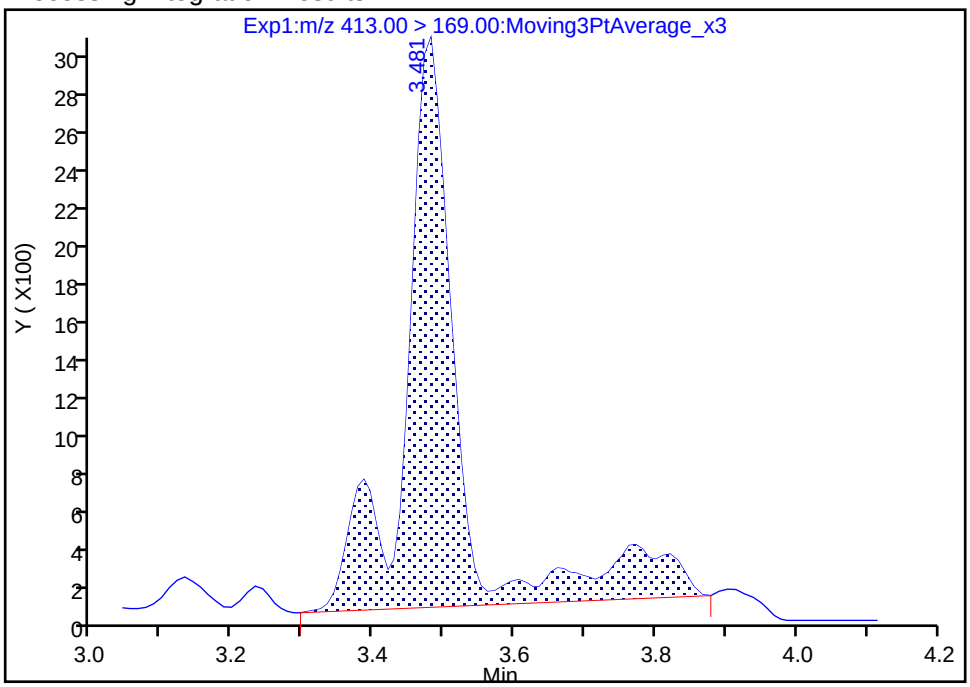
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

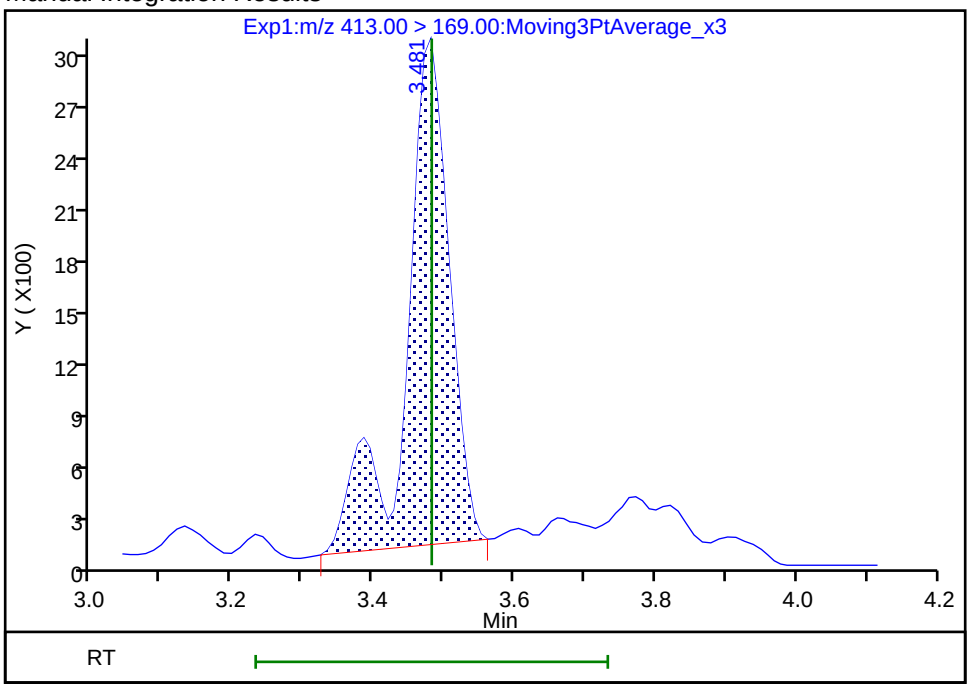
Processing Integration Results

RT: 3.48
Area: 15963
Amount: 0.029612
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 12555
Amount: 0.027867
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 12:00:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

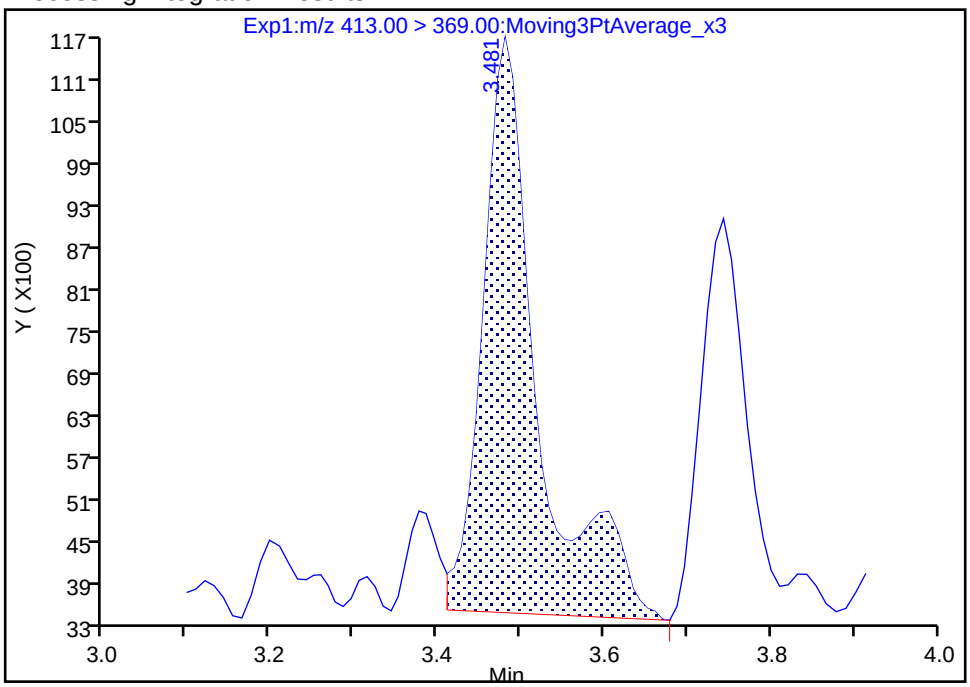
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

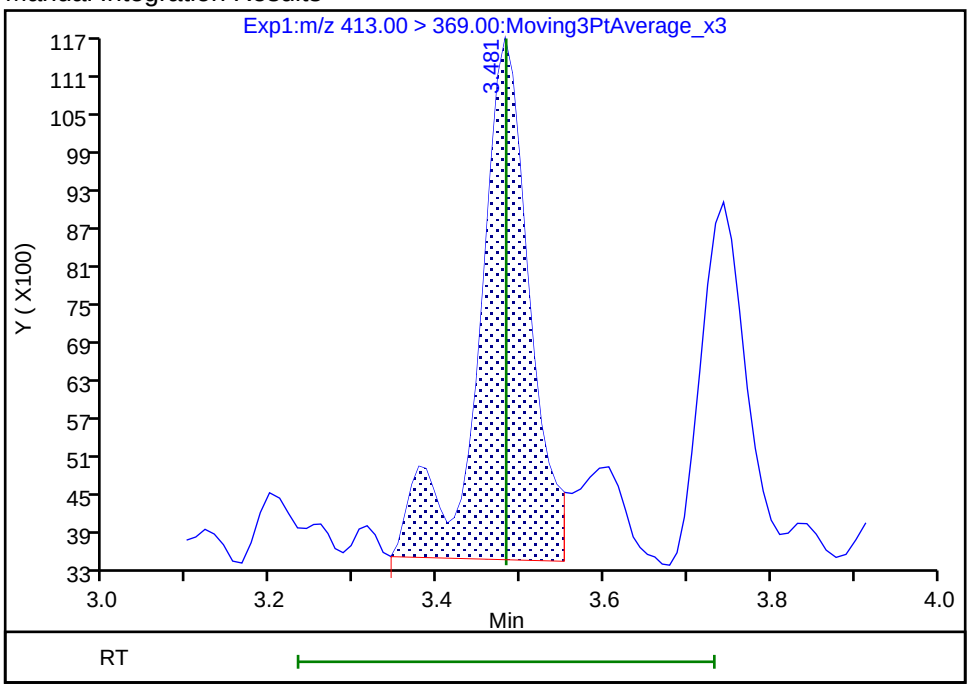
Processing Integration Results

RT: 3.48
Area: 37924
Amount: 0.029612
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 35338
Amount: 0.027867
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 12:00:47

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

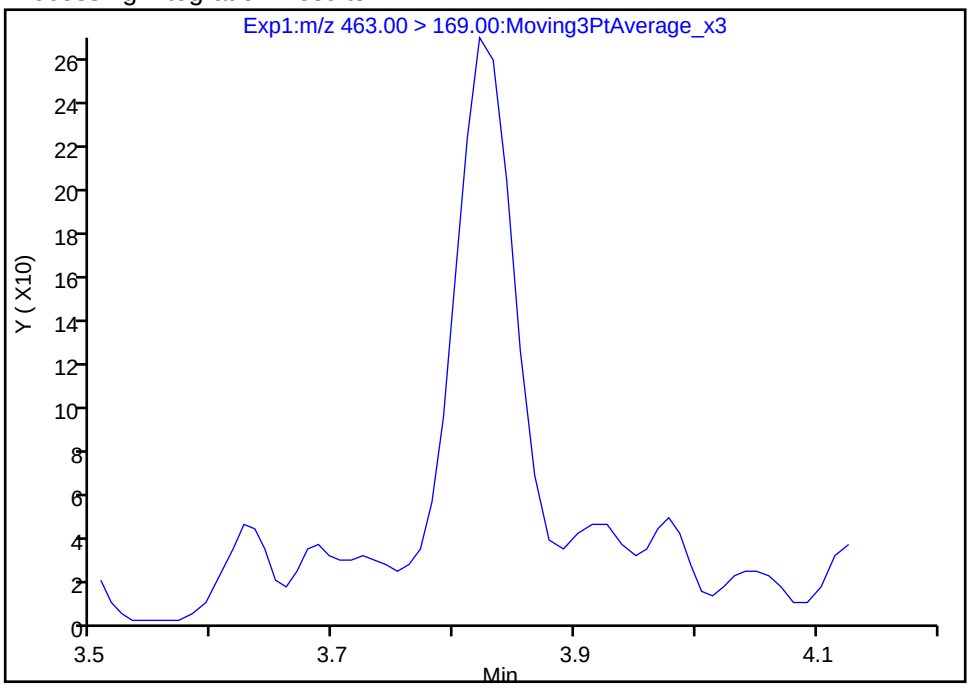
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

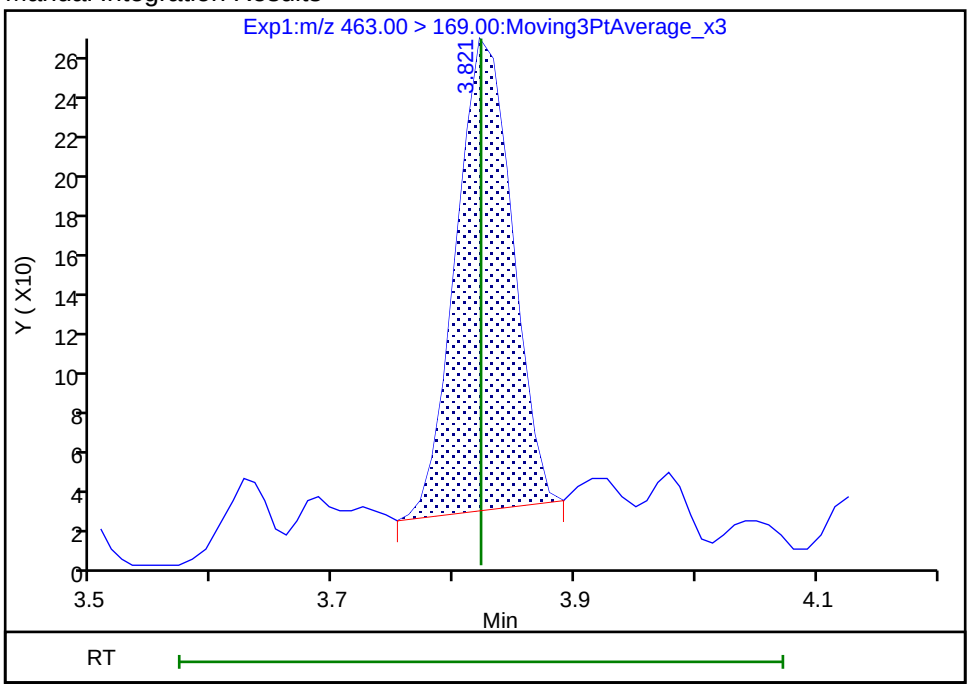
Not Detected
Expected RT: 3.82

Processing Integration Results



Manual Integration Results

RT: 3.82
Area: 758
Amount: 0.004430
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 12:01:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

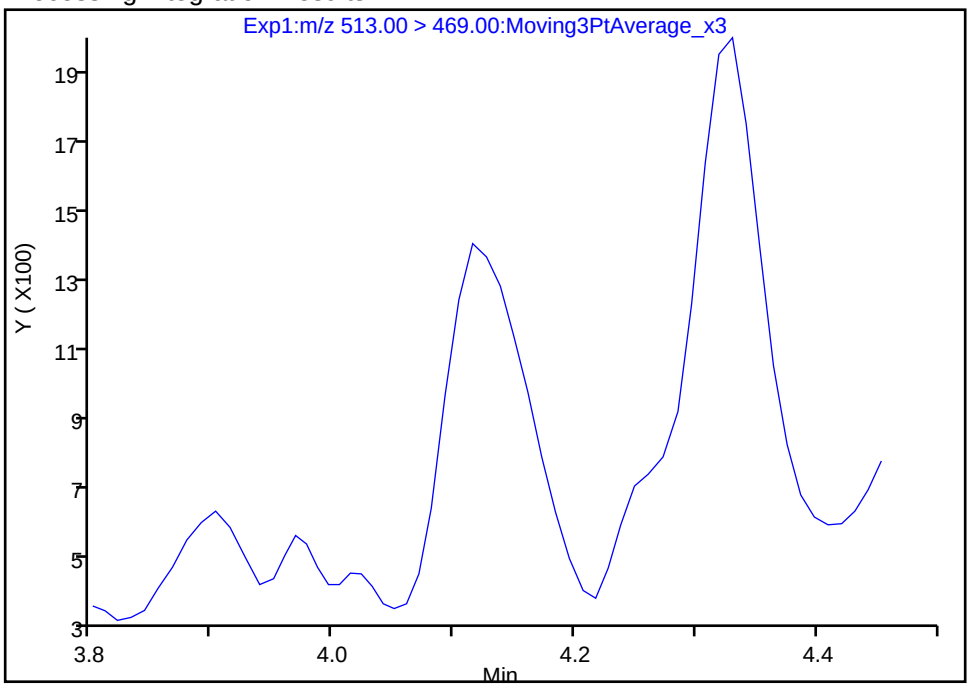
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

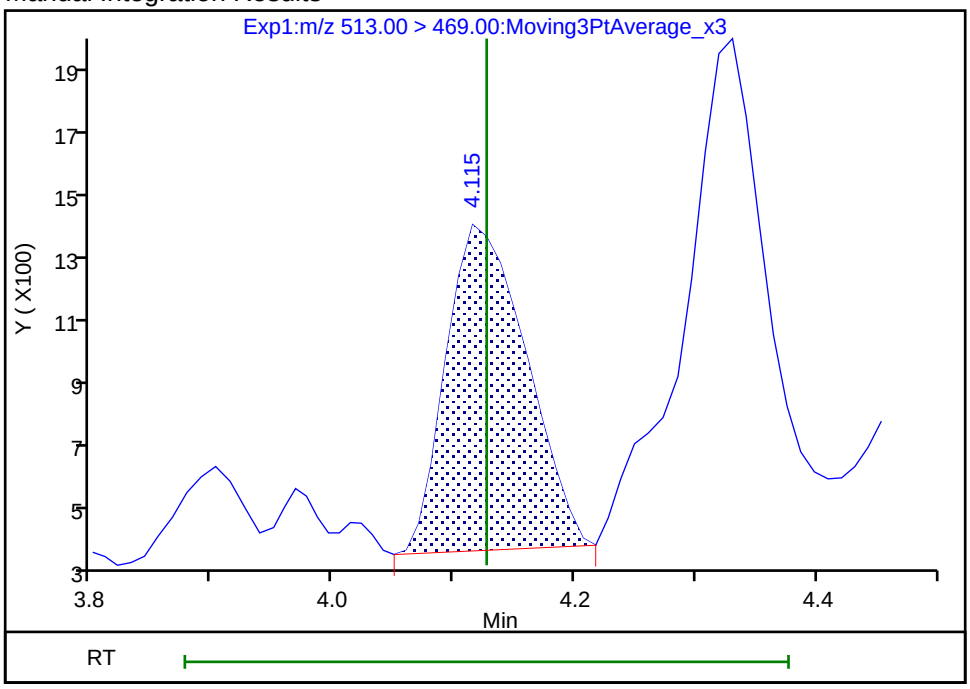
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.12
Area: 4507
Amount: 0.003701
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 12:01:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

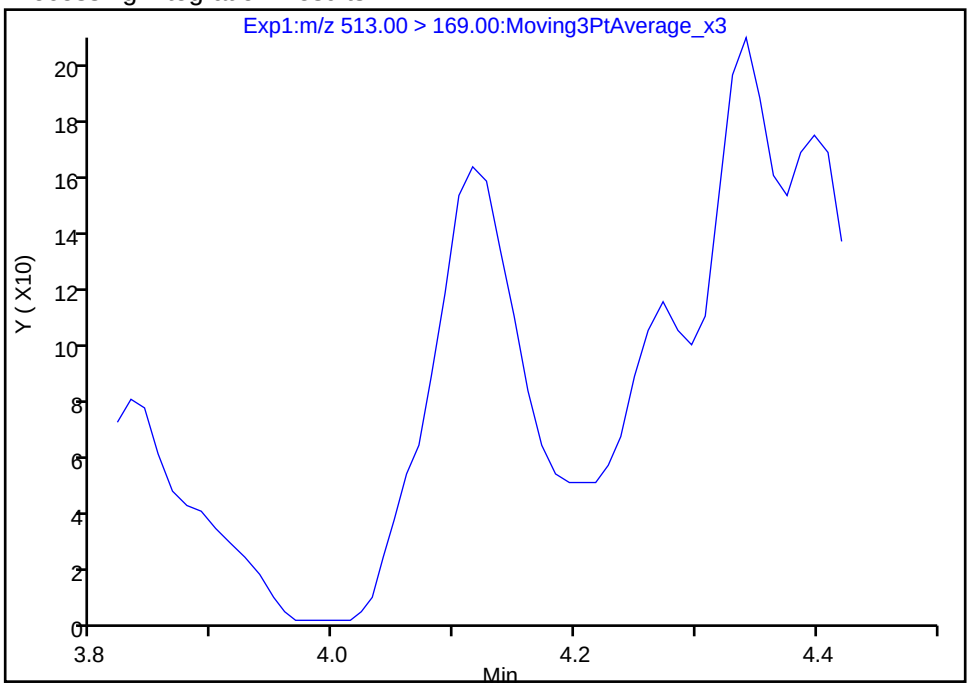
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

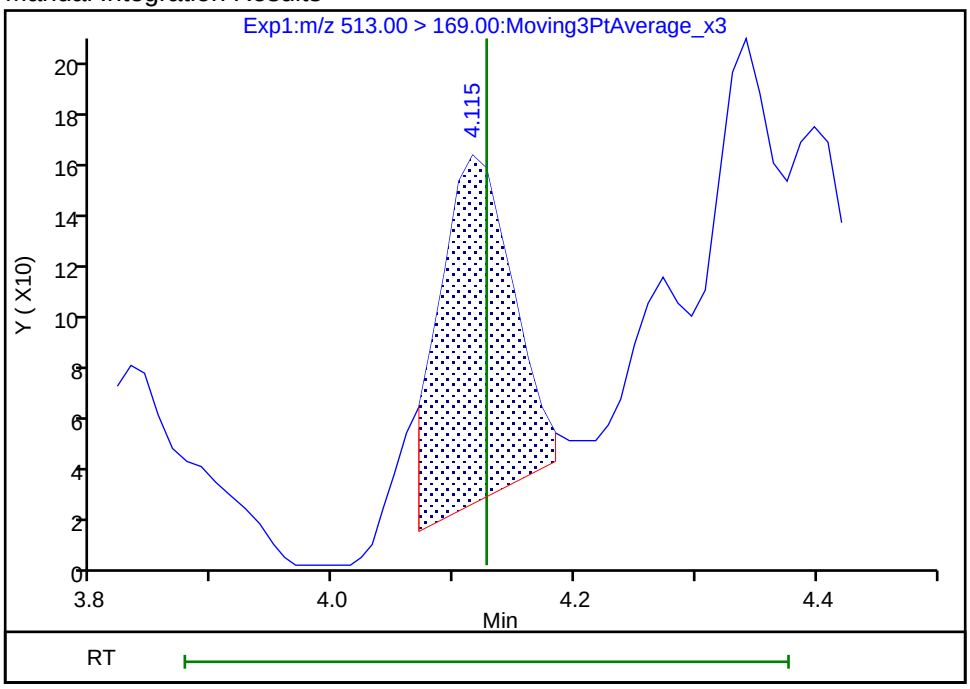
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.12
Area: 562
Amount: 0.003701
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 12:01:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

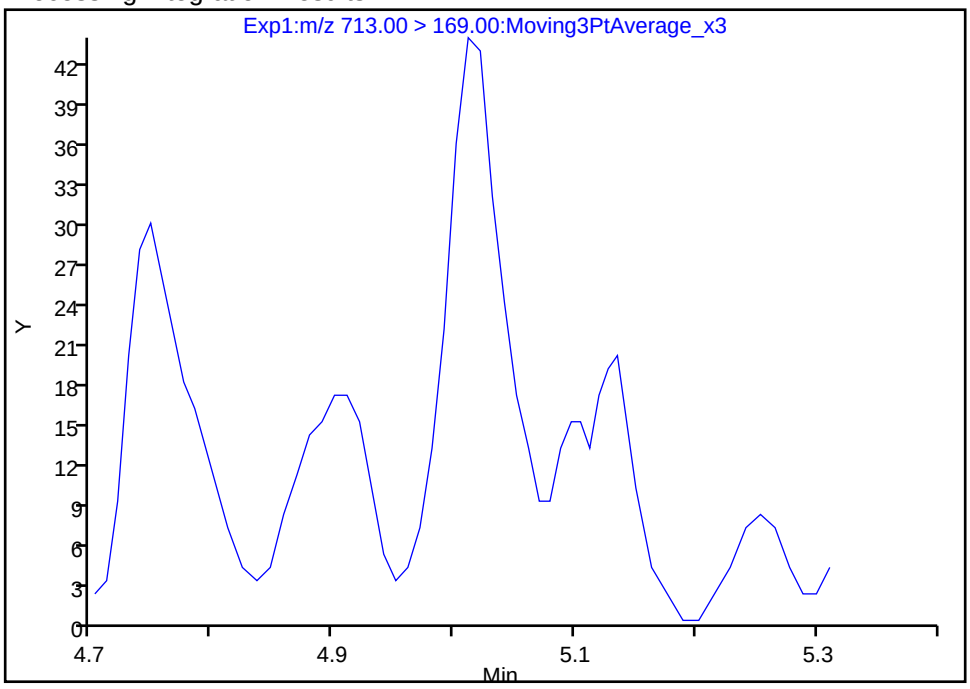
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

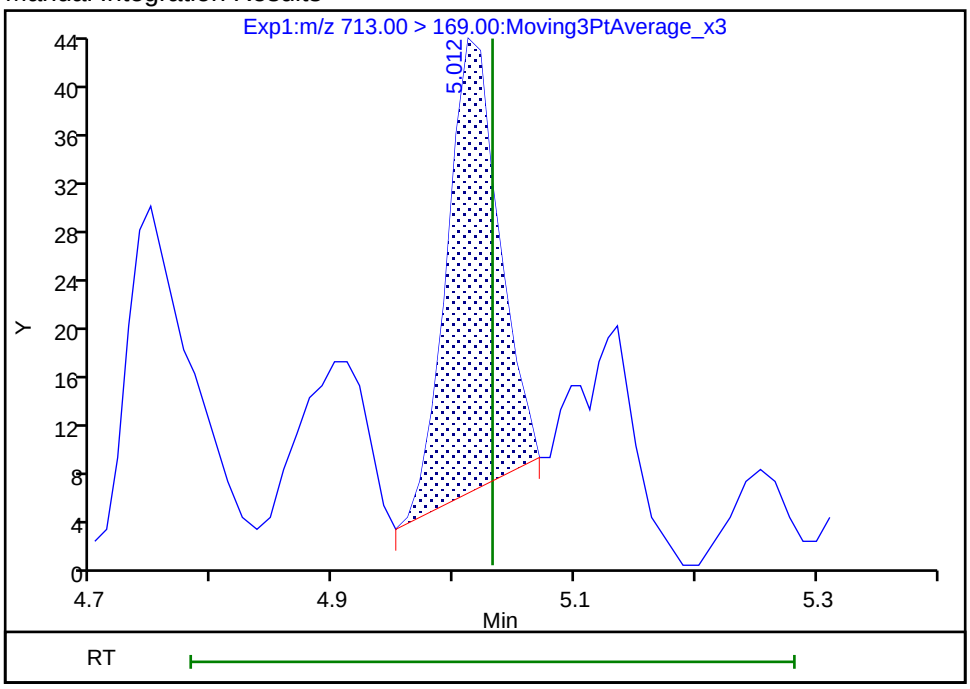
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.01
Area: 113
Amount: 0.001009
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 12:02:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

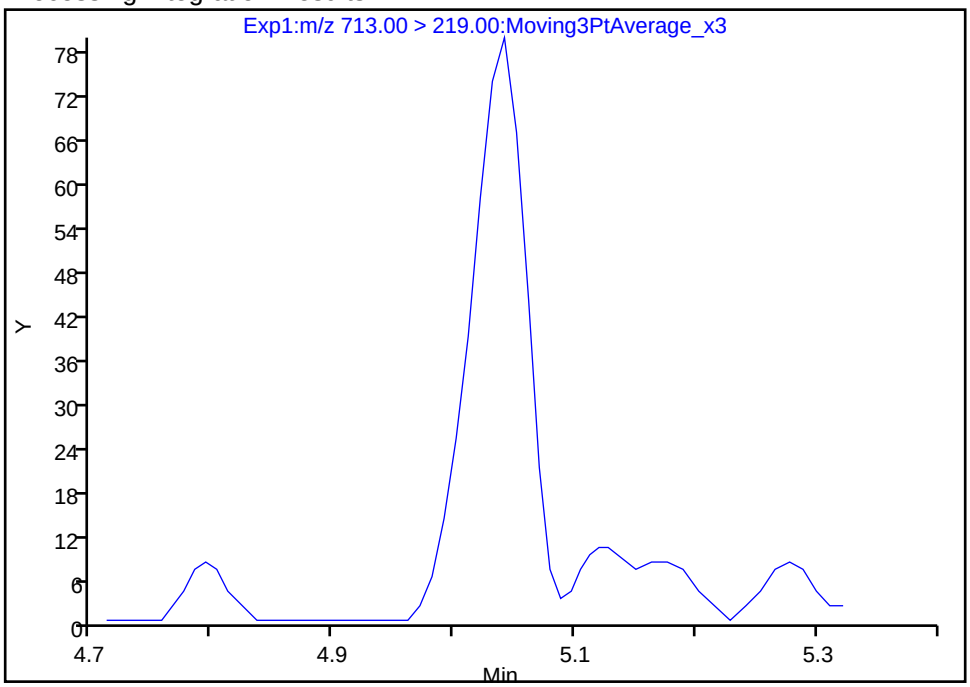
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

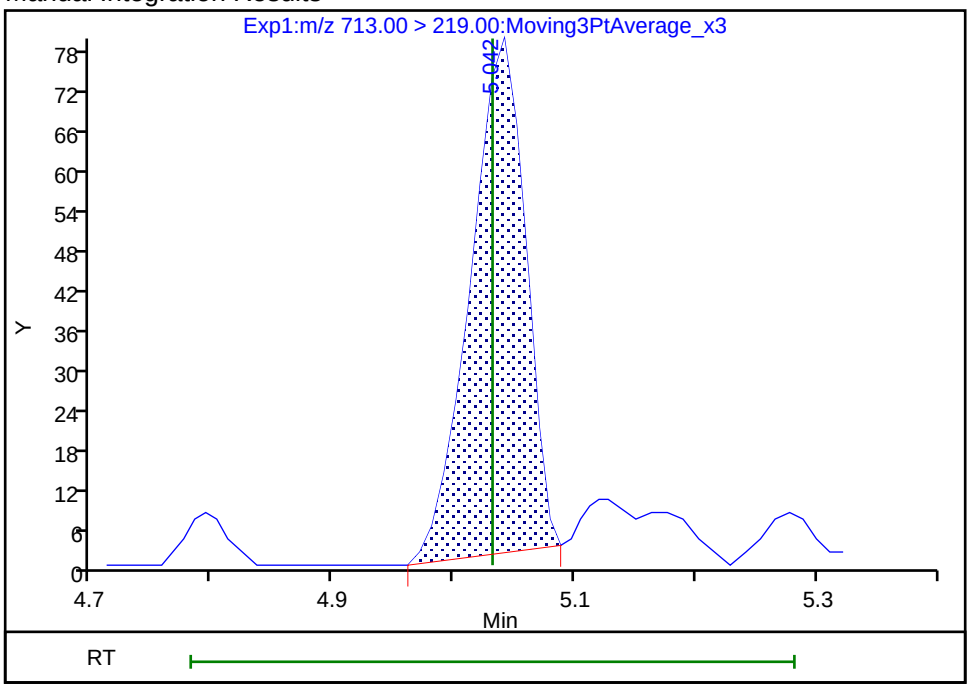
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.04
Area: 248
Amount: 0.001009
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 12:02:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

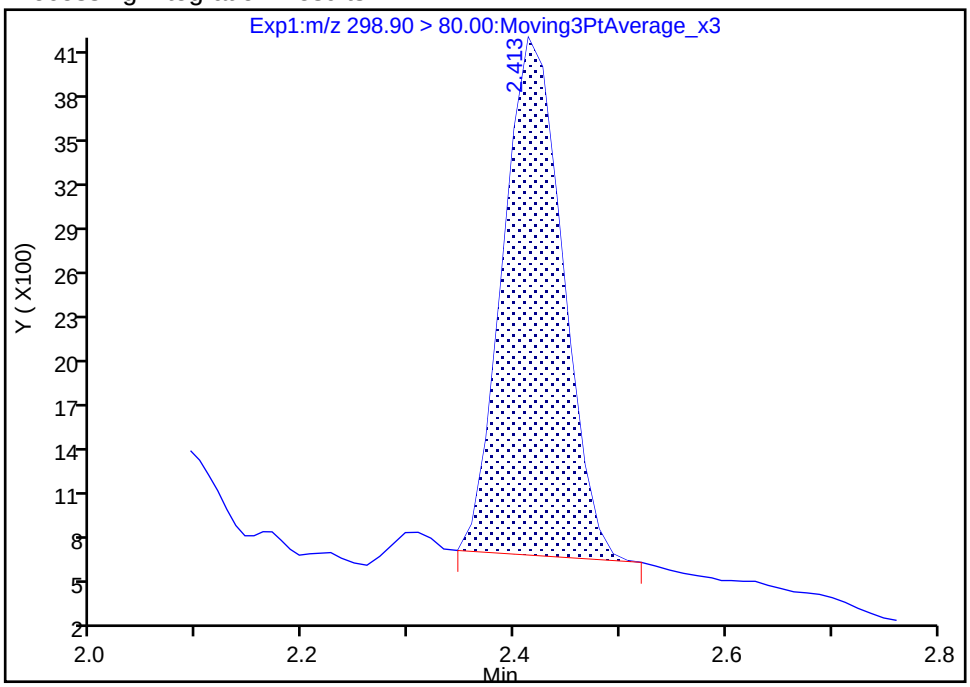
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

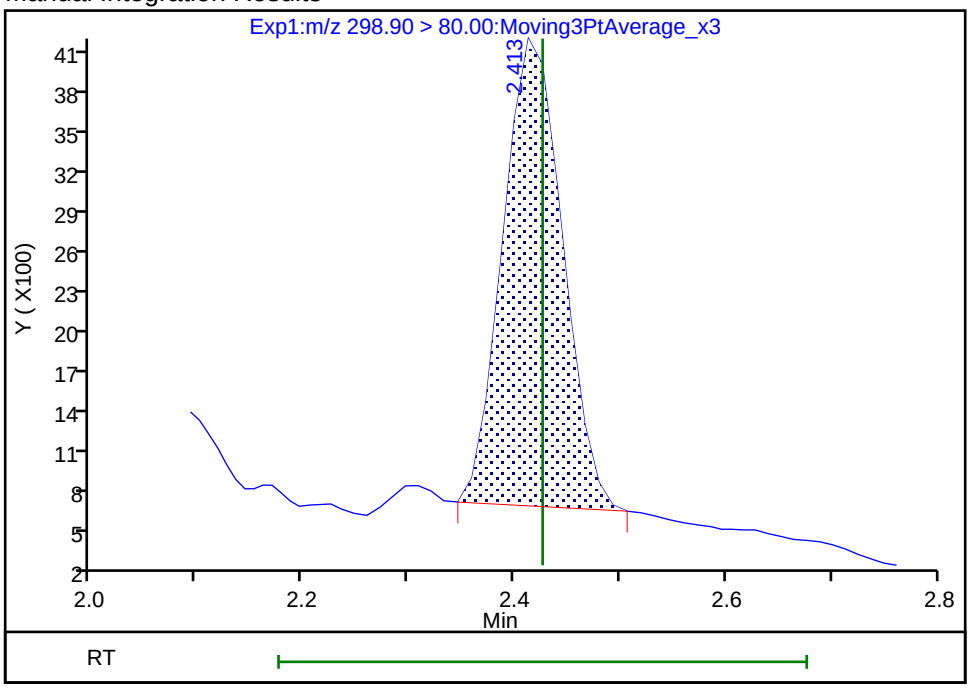
Processing Integration Results

RT: 2.41
Area: 13553
Amount: 0.009428
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 13522
Amount: 0.009406
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:59:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

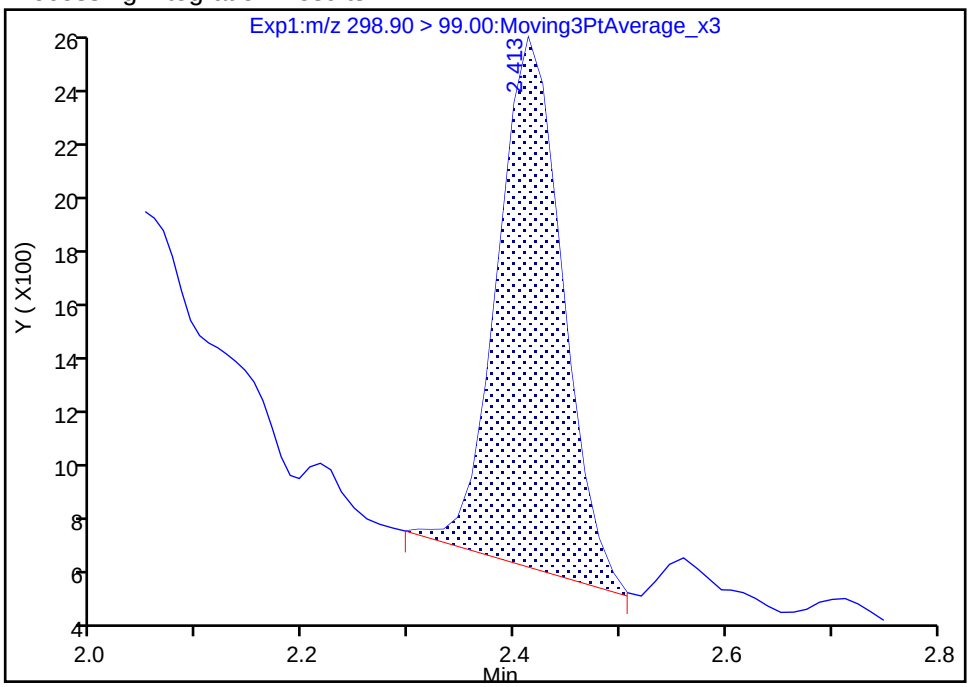
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

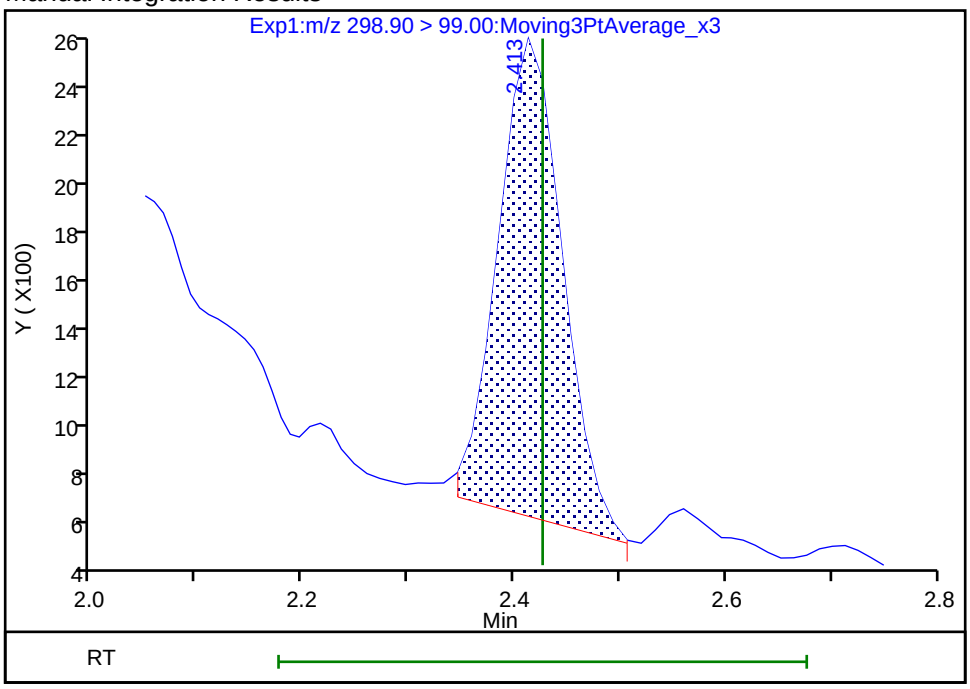
Processing Integration Results

RT: 2.41
Area: 8072
Amount: 0.009428
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 7933
Amount: 0.009406
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:59:17

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

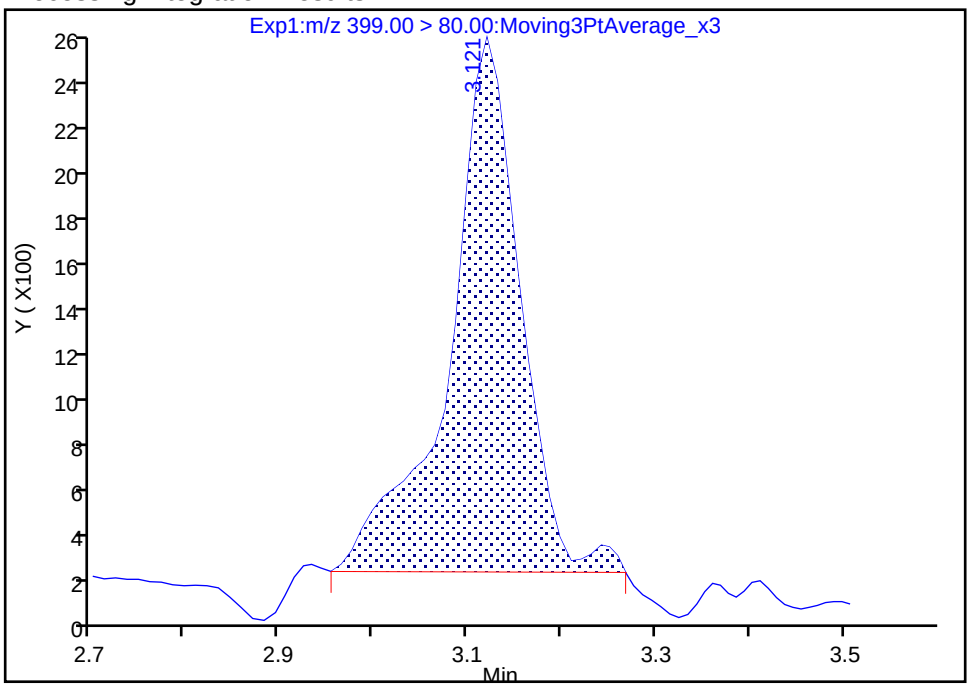
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

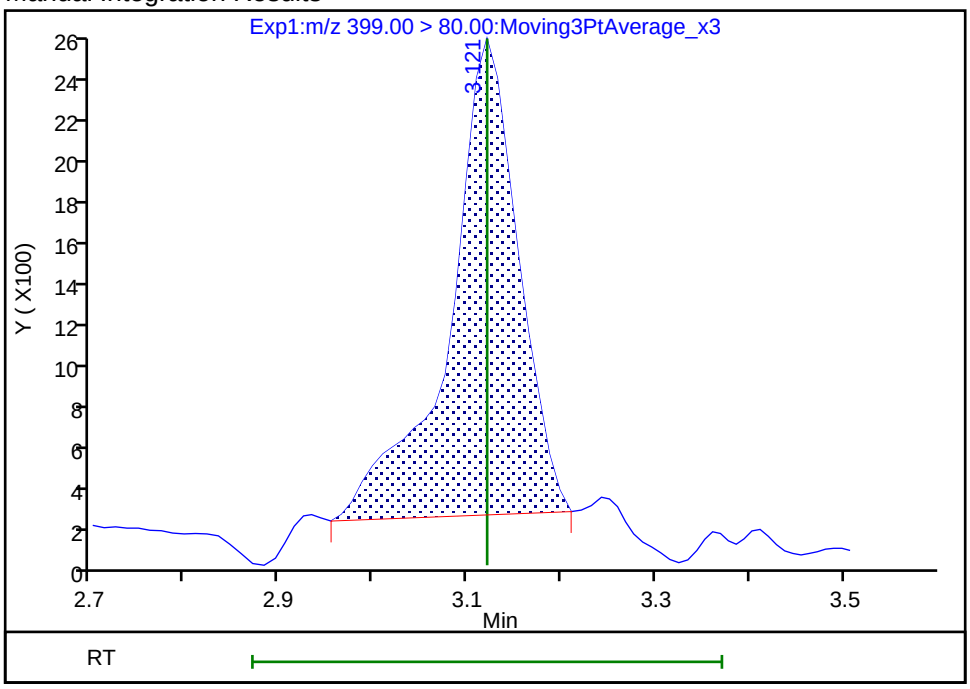
Processing Integration Results

RT: 3.12
Area: 11967
Amount: 0.010802
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 11348
Amount: 0.010244
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:59:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

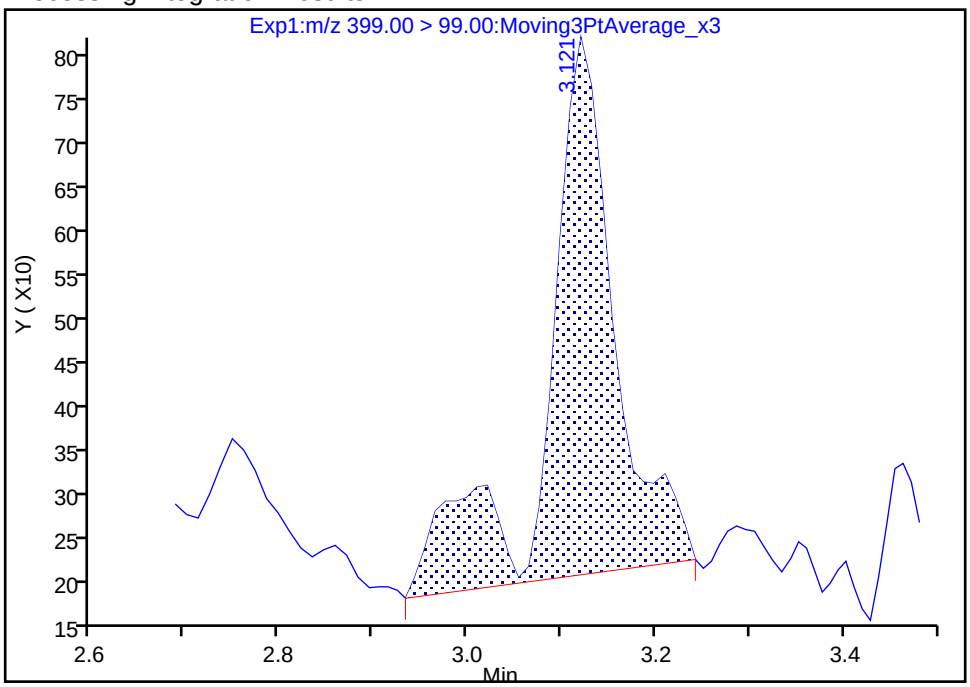
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

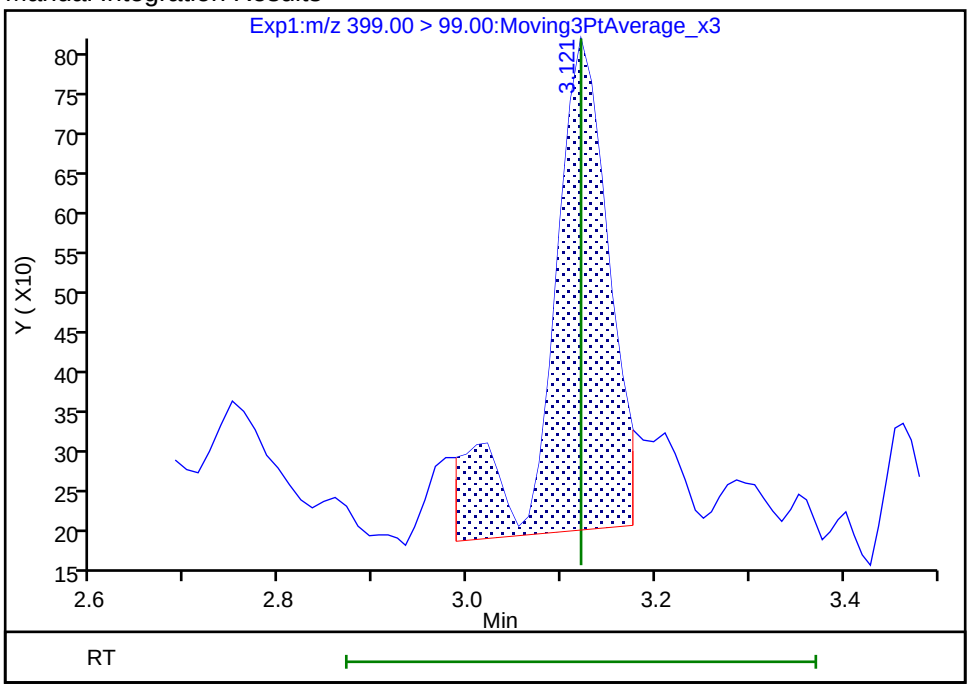
Processing Integration Results

RT: 3.12
Area: 3077
Amount: 0.010802
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 2623
Amount: 0.010244
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:59:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

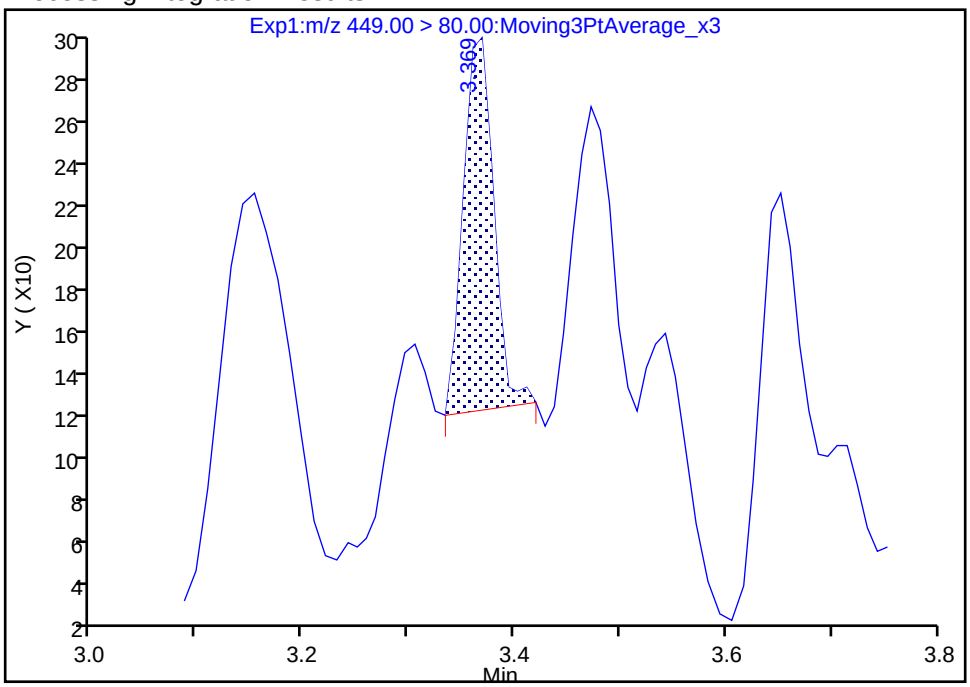
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

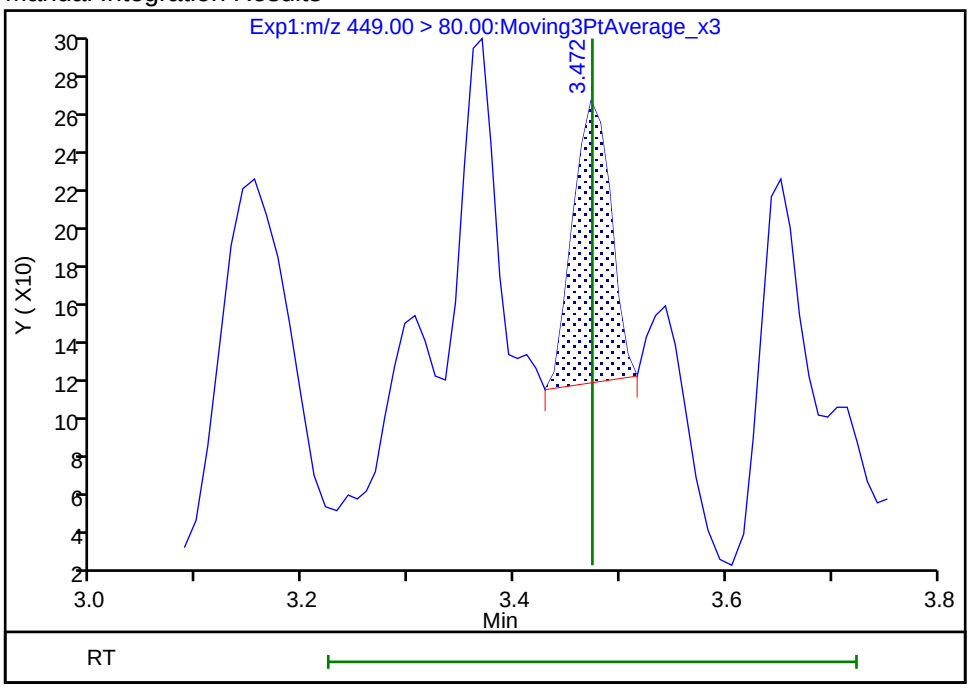
Processing Integration Results

RT: 3.37
Area: 342
Amount: 0.000376
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 359
Amount: 0.000396
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 12:00:14

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

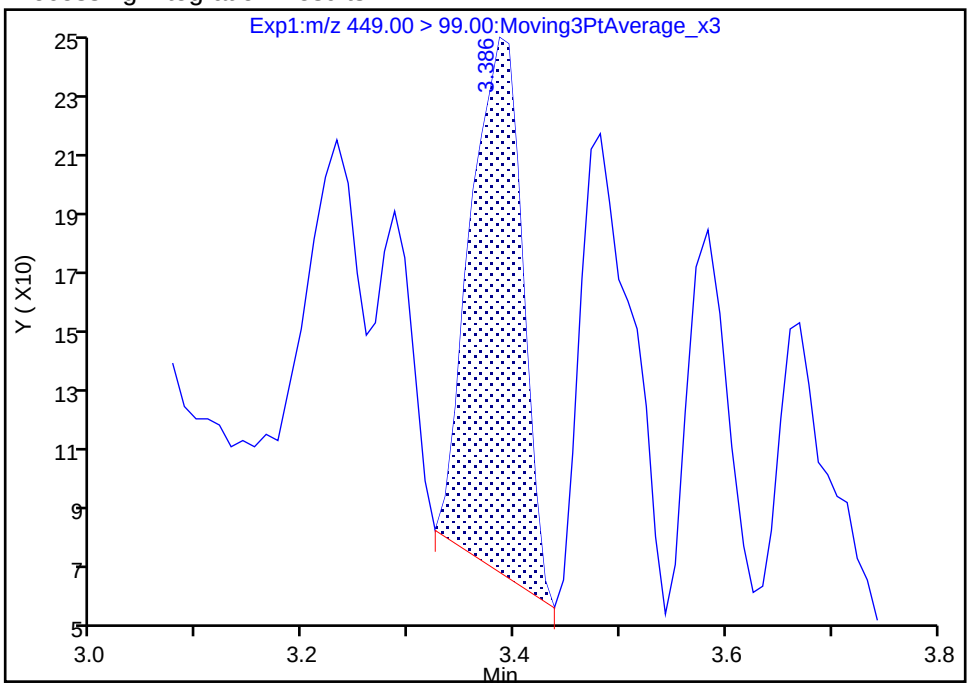
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

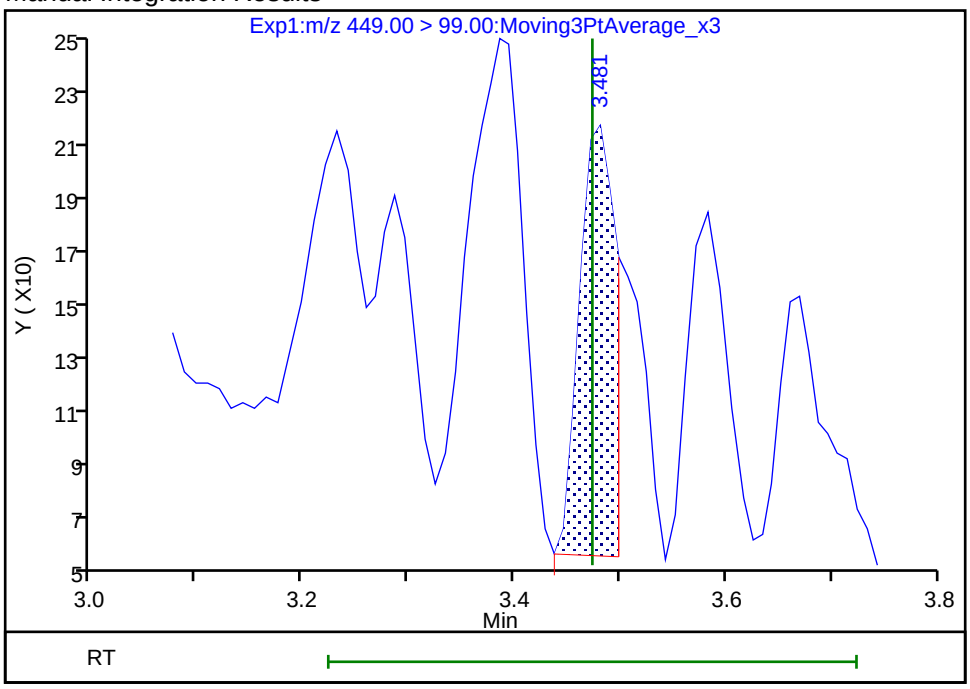
Processing Integration Results

RT: 3.39
Area: 588
Amount: 0.000376
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 341
Amount: 0.000396
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 12:00:23

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

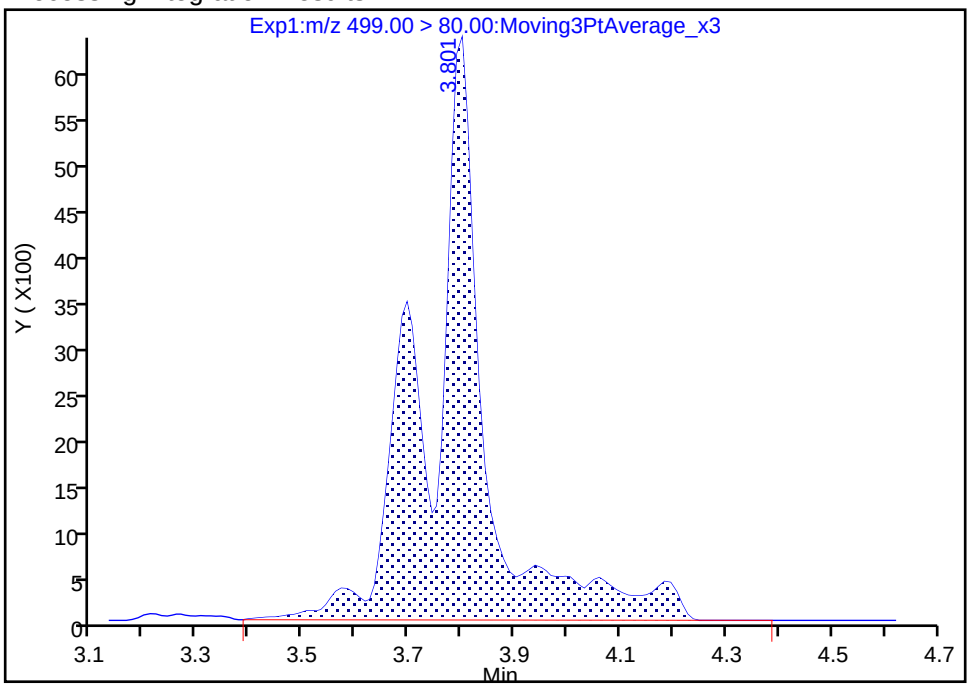
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

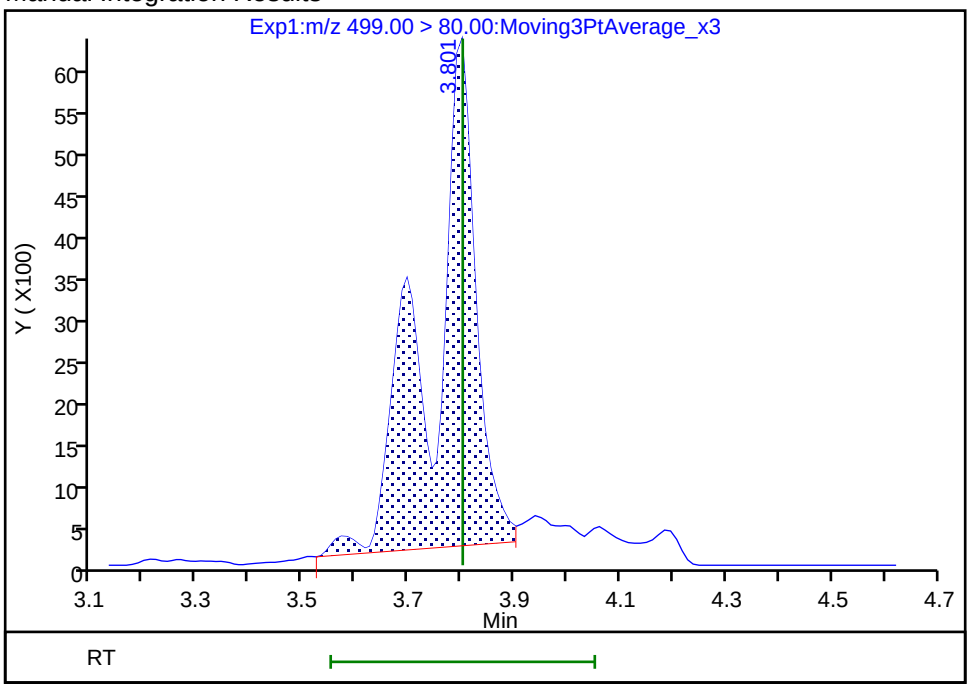
Processing Integration Results

RT: 3.80
Area: 48889
Amount: 0.060554
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 36560
Amount: 0.045433
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 12:01:04

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

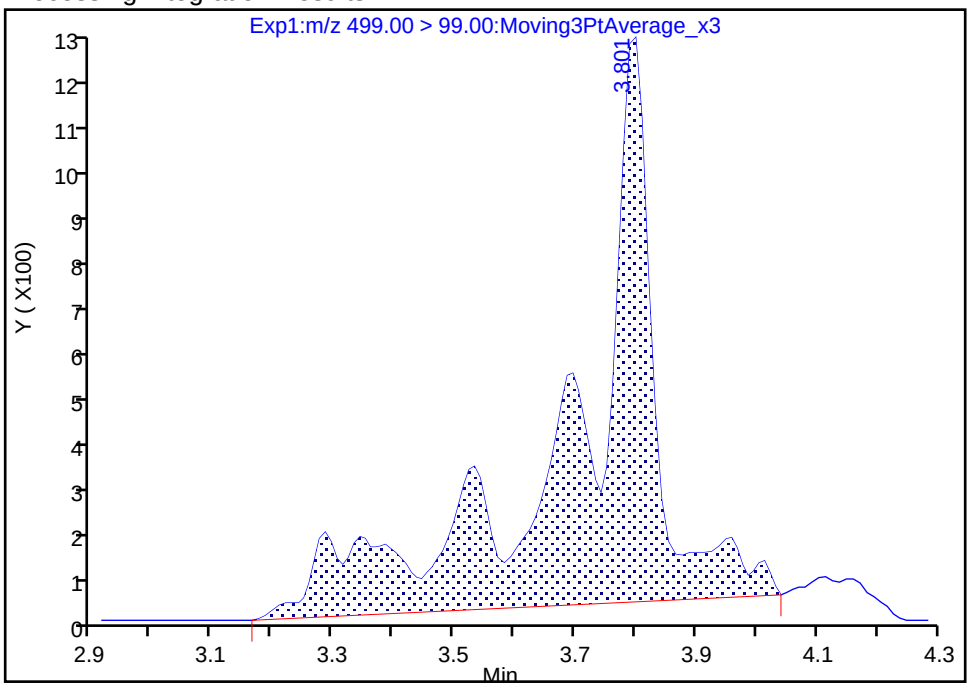
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

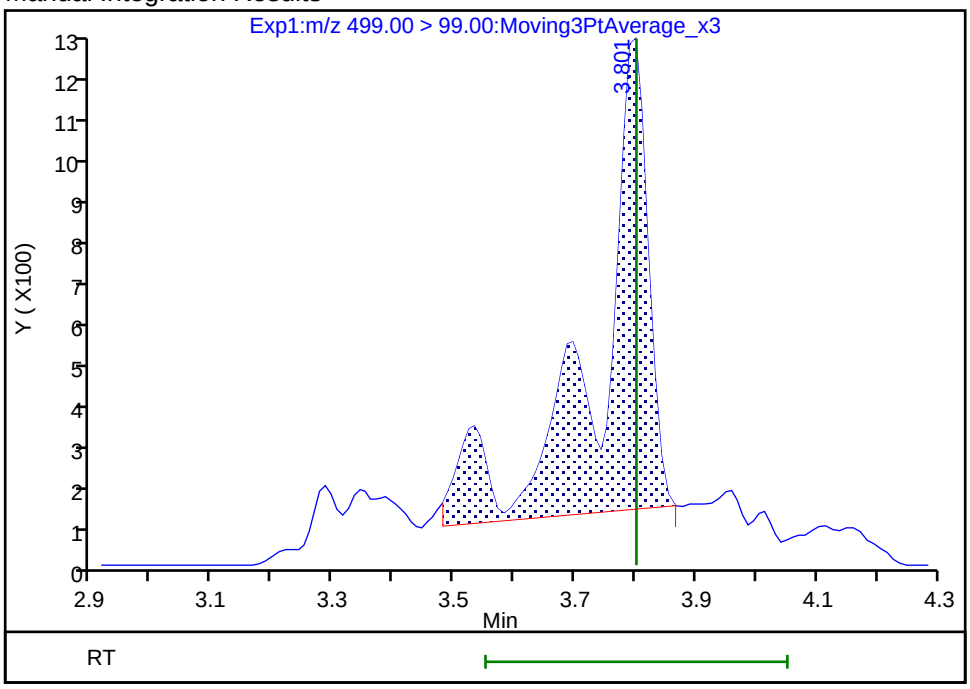
Processing Integration Results

RT: 3.80
Area: 11551
Amount: 0.060554
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 6740
Amount: 0.045433
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:17:43

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

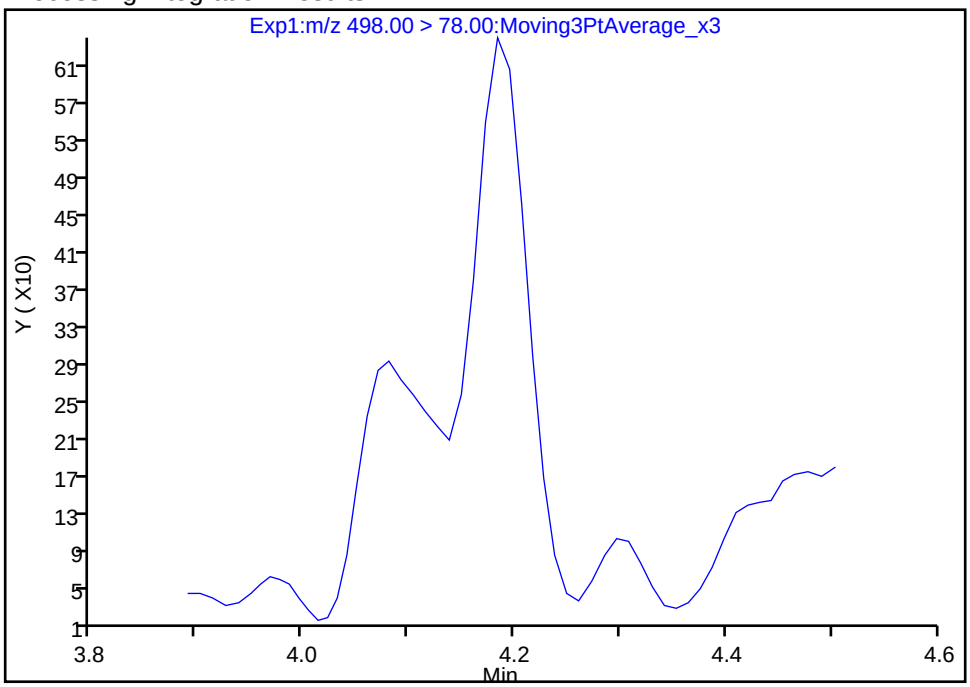
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

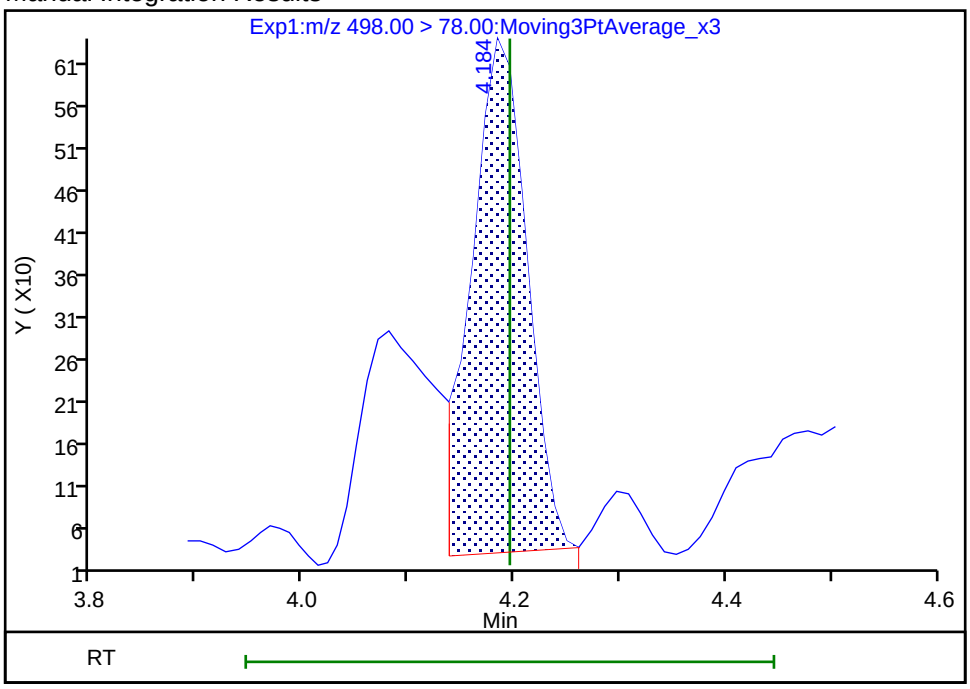
Not Detected
Expected RT: 4.20

Processing Integration Results



Manual Integration Results

RT: 4.18
Area: 2209
Amount: 0.002081
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 12:02:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

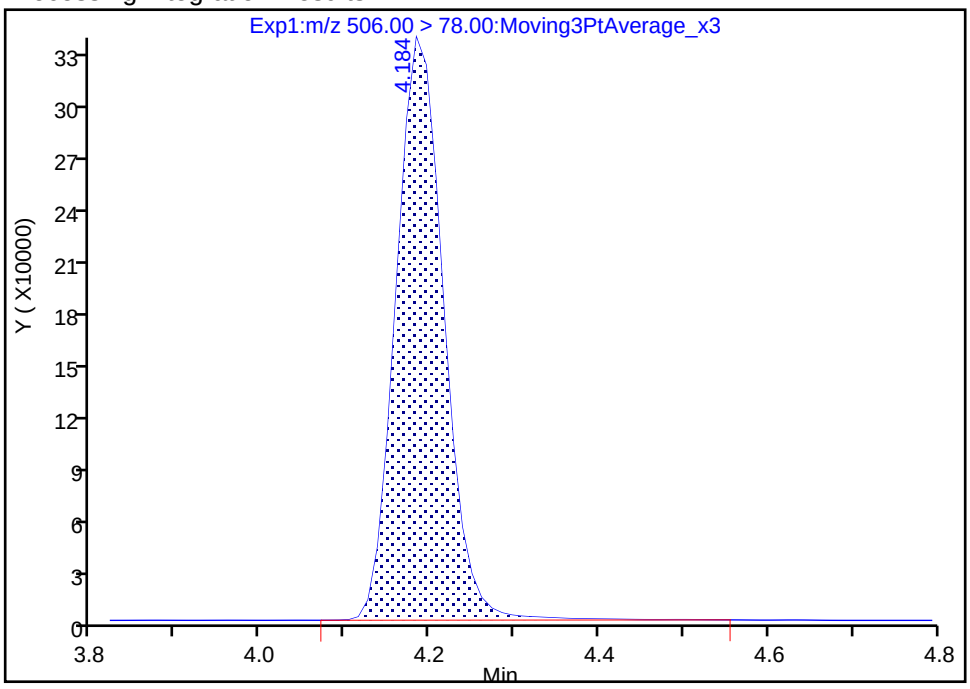
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d		
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5
Client ID:	MW-6B		
Operator ID:	lc812tech	ALS Bottle#:	19 Worklist Smp#: 22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

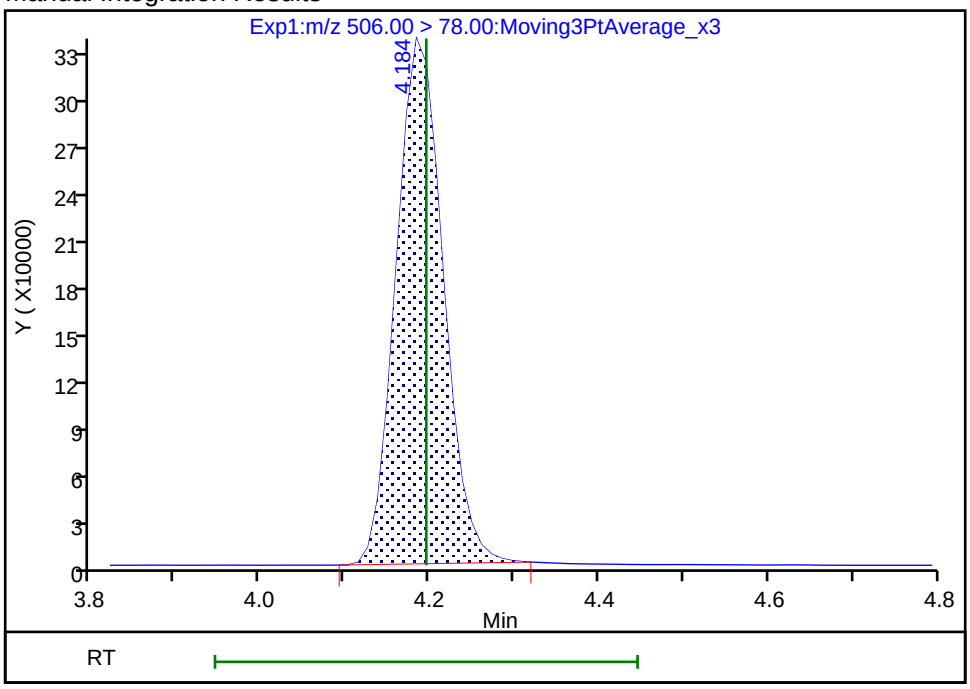
Processing Integration Results

RT: 4.18
Area: 1327425
Amount: 1.016501
Amount Units: ng/ml



Manual Integration Results

RT: 4.18
Area: 1307453
Amount: 1.001207
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:18:02

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

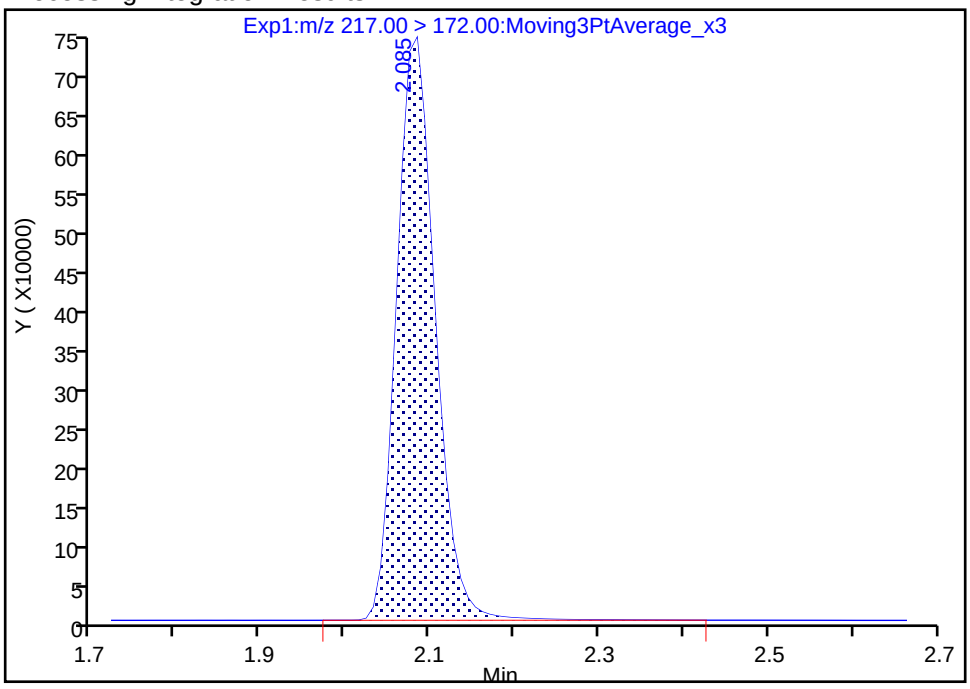
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

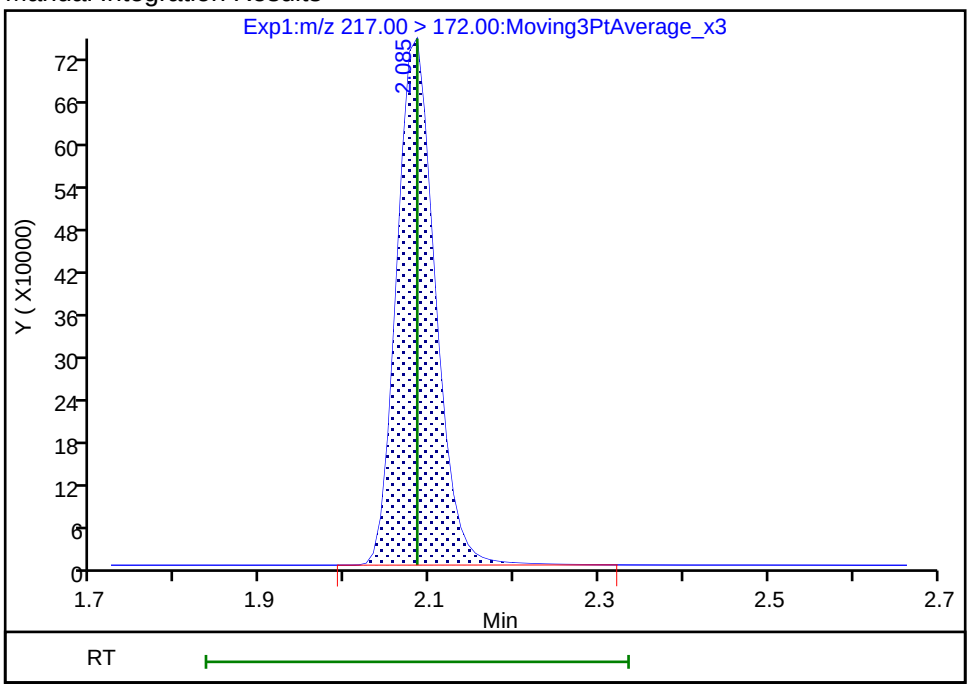
Processing Integration Results

RT: 2.08
Area: 2347151
Amount: 1.834899
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 2343423
Amount: 1.831984
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:16:48

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

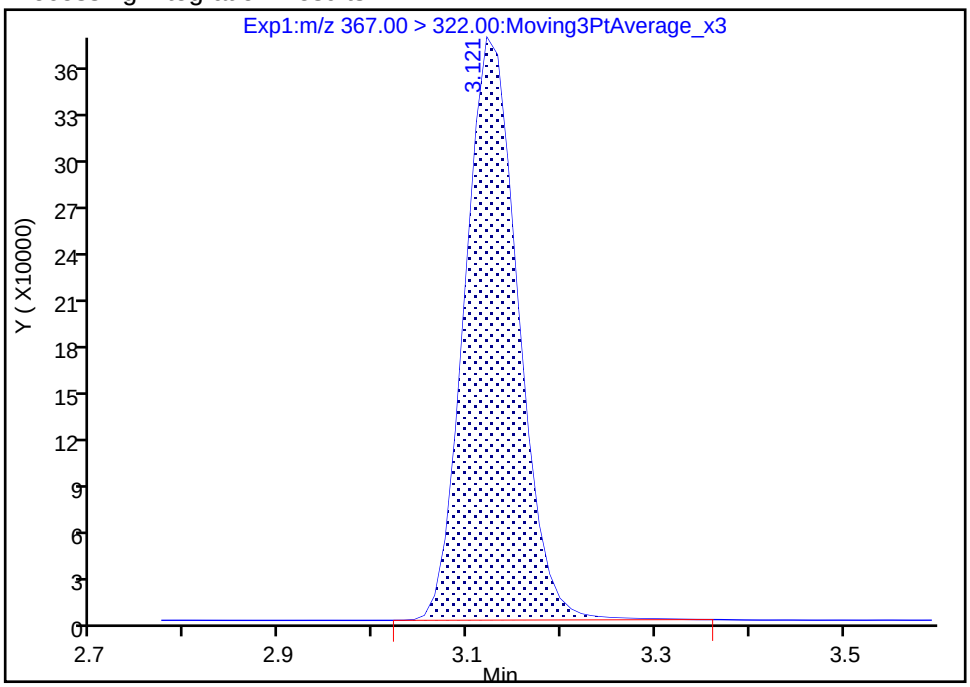
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

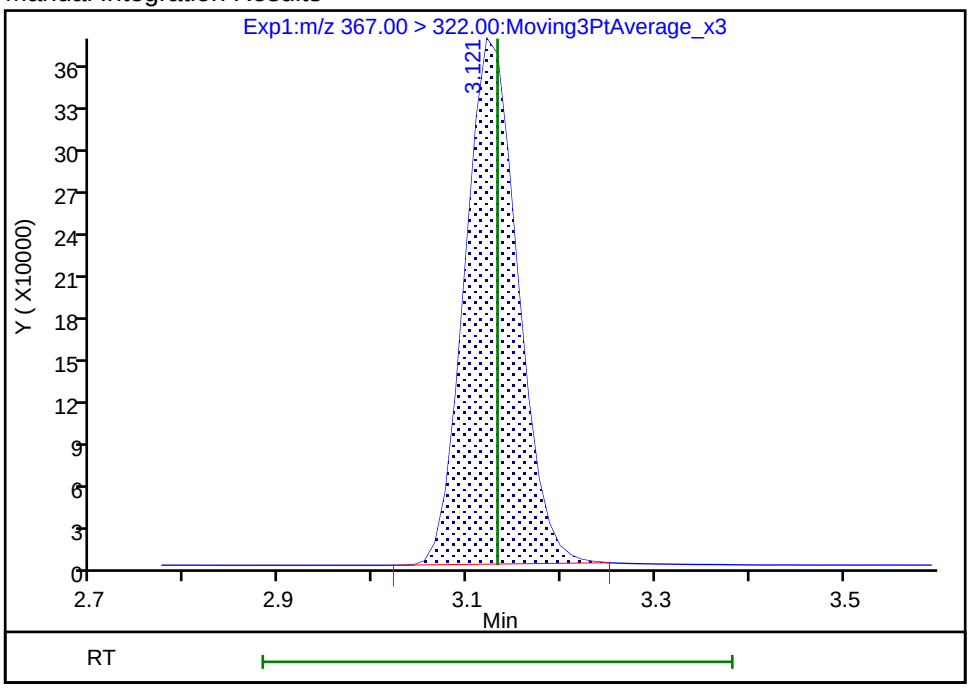
Processing Integration Results

RT: 3.12
Area: 1462170
Amount: 1.355347
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 1449175
Amount: 1.343301
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:17:02

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

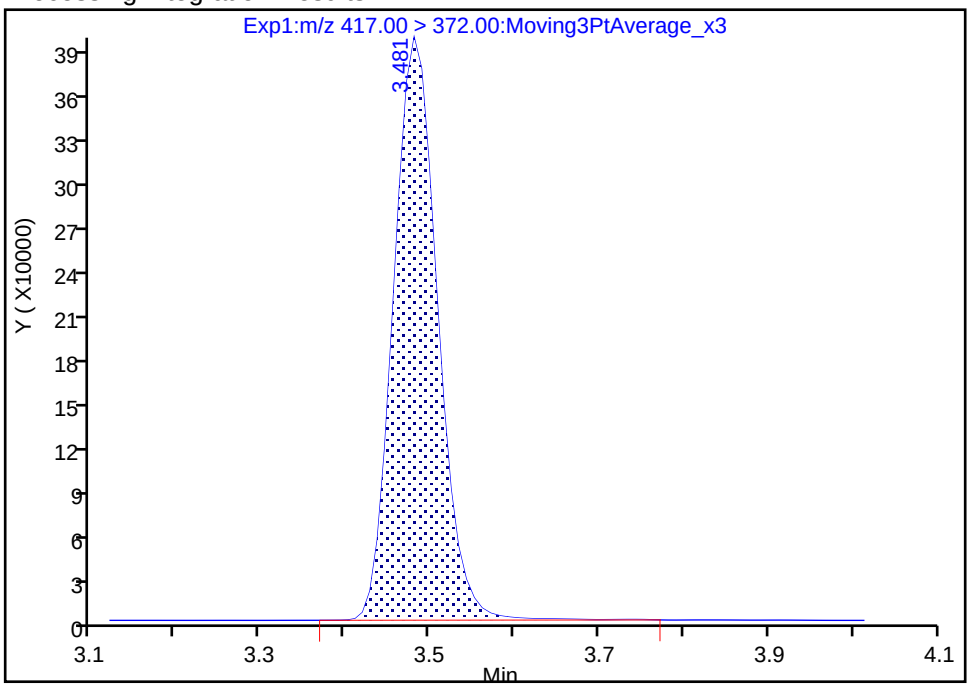
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

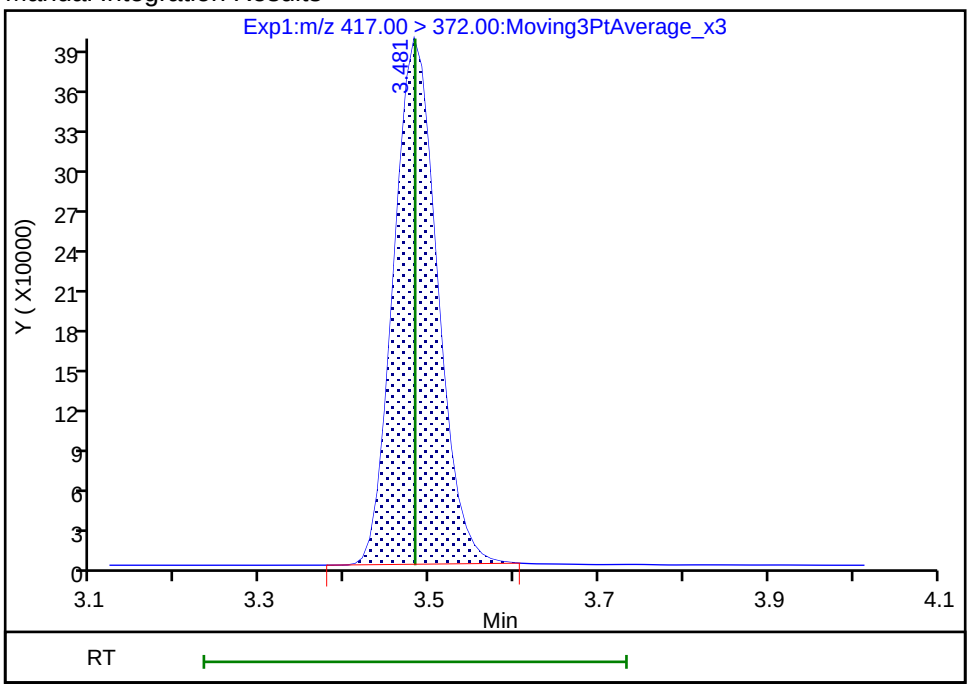
Processing Integration Results

RT: 3.48
Area: 1429437
Amount: 1.260058
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 1415338
Amount: 1.247629
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:17:23

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

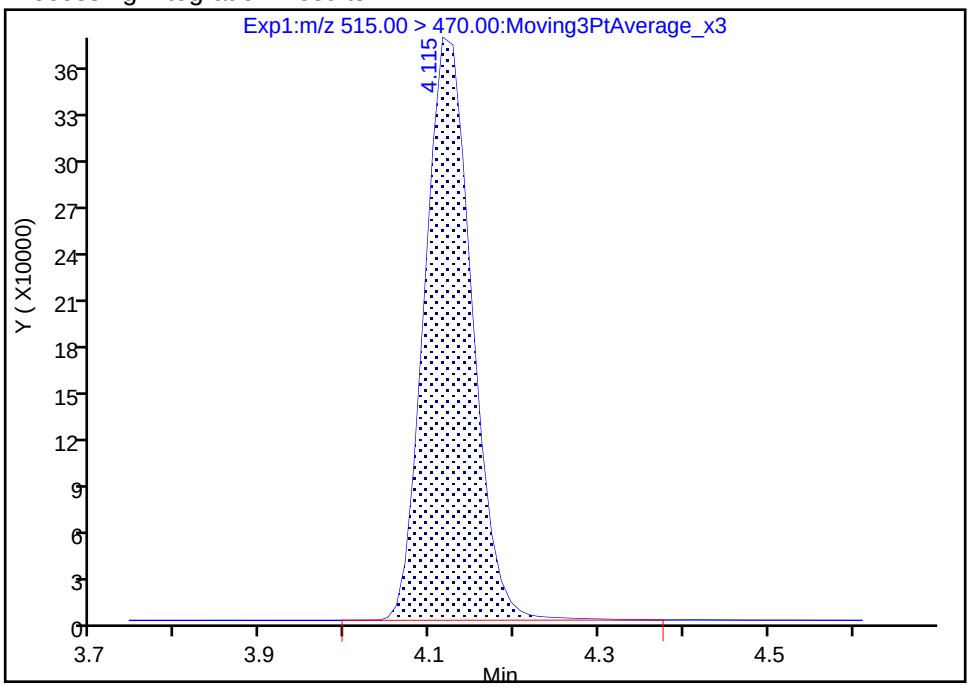
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

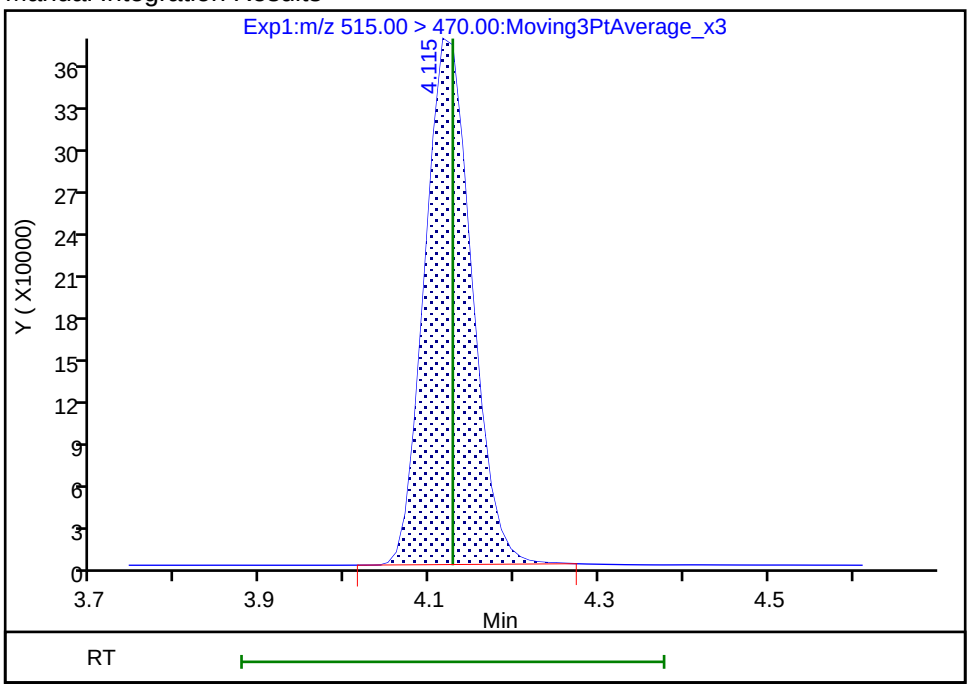
Processing Integration Results

RT: 4.12
Area: 1438296
Amount: 1.211750
Amount Units: ng/ml



Manual Integration Results

RT: 4.12
Area: 1428948
Amount: 1.203875
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:17:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

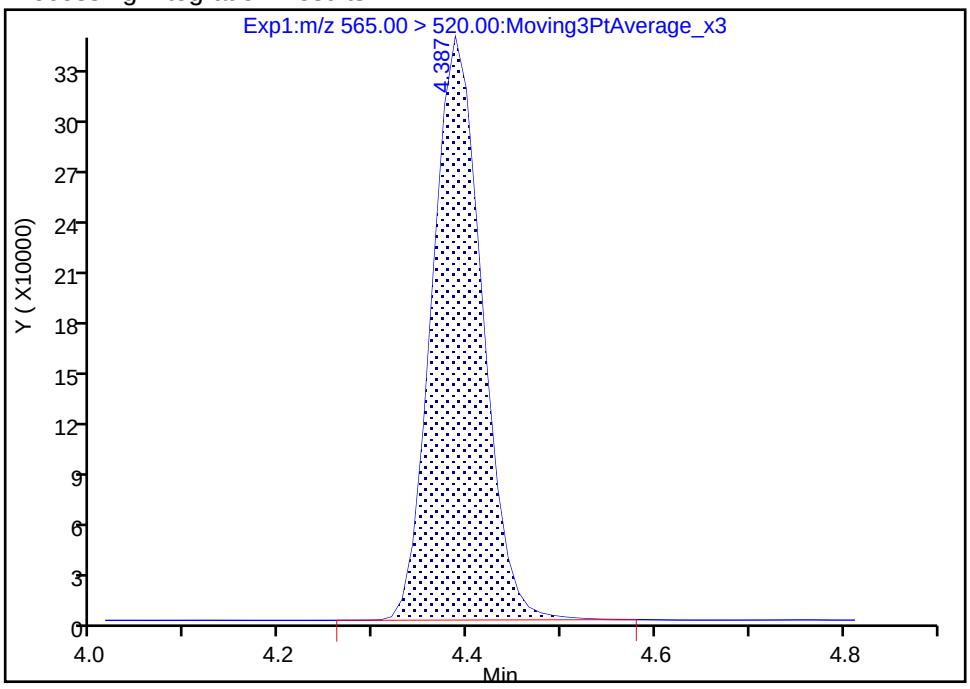
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

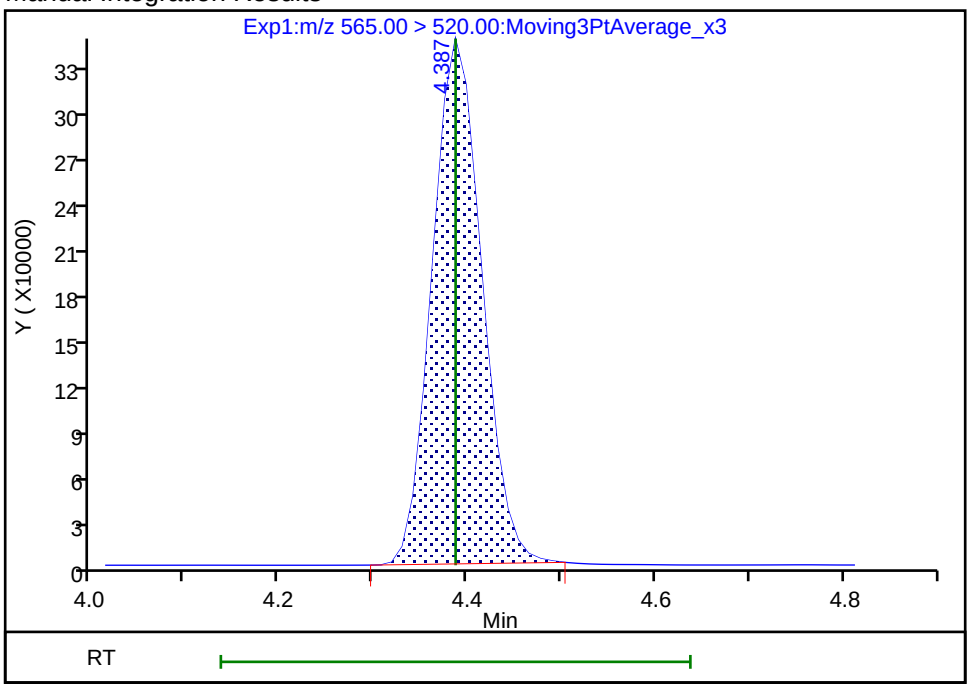
Processing Integration Results

RT: 4.39
Area: 1263660
Amount: 1.325983
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 1252093
Amount: 1.313846
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:18:18

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

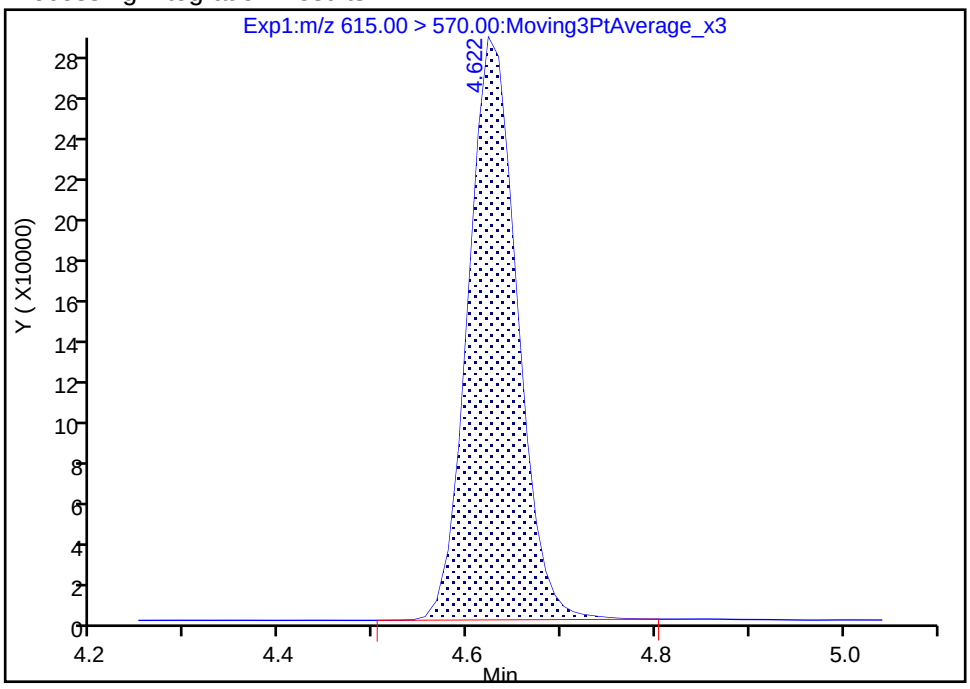
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 36 13C2 PFDoA, CAS: STL00998

Signal: 1

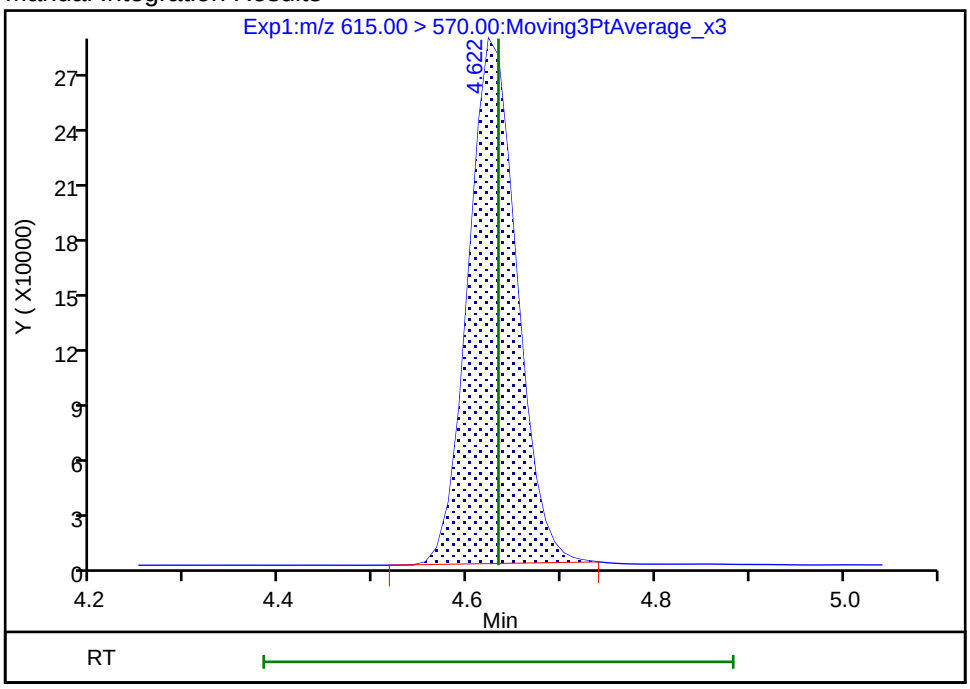
Processing Integration Results

RT: 4.62
Area: 1033276
Amount: 1.015243
Amount Units: ng/ml



Manual Integration Results

RT: 4.62
Area: 1022629
Amount: 1.004782
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:18:31

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

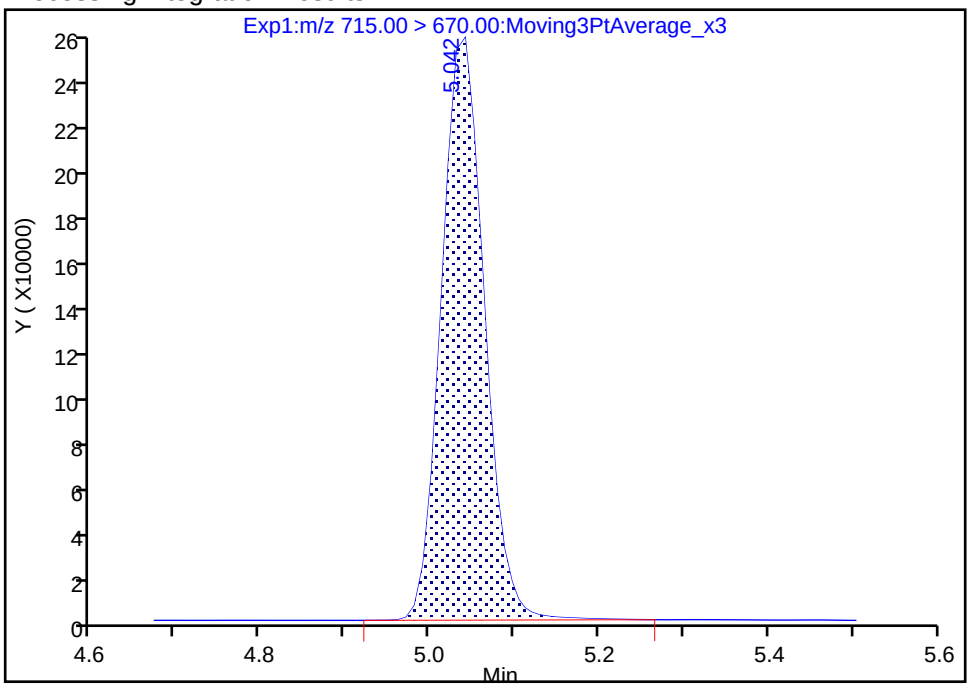
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

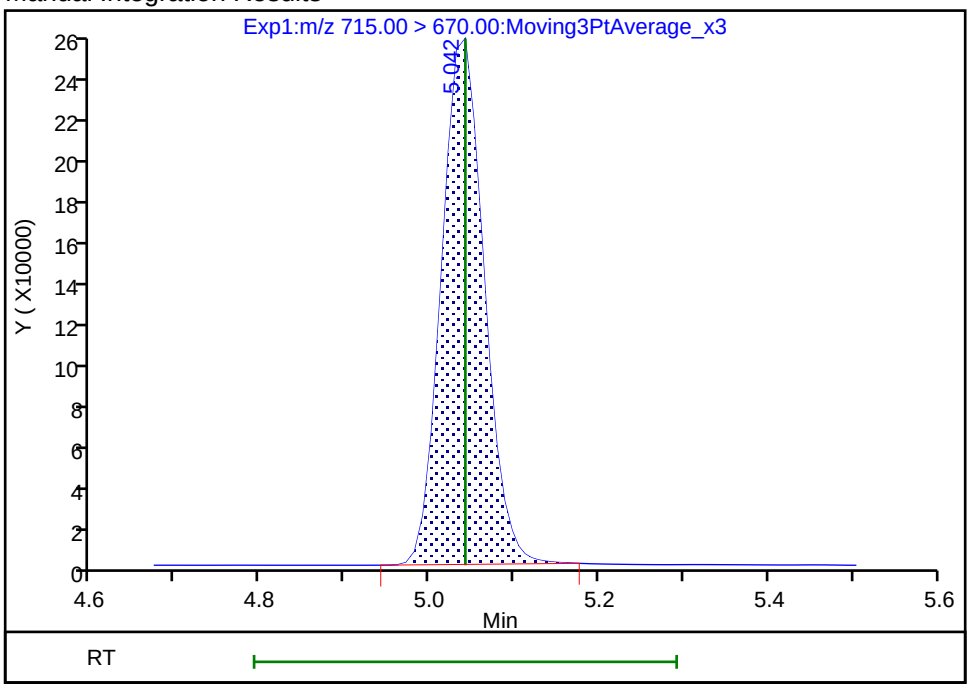
Processing Integration Results

RT: 5.04
Area: 912439
Amount: 1.096927
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 905865
Amount: 1.089024
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:18:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

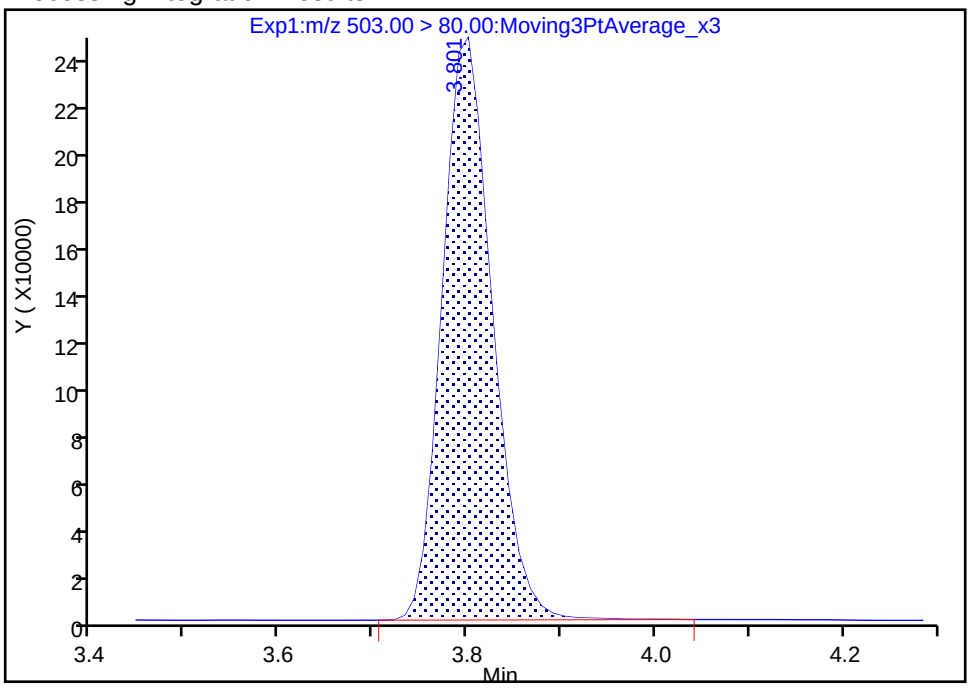
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

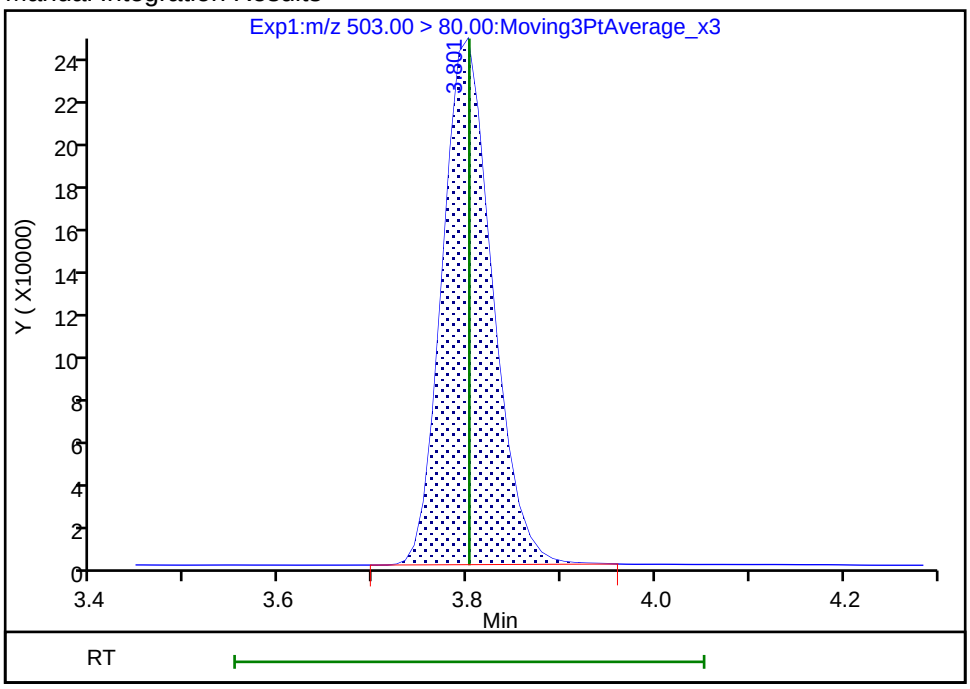
Processing Integration Results

RT: 3.80
Area: 903462
Amount: 1.037041
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 900480
Amount: 1.033618
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:17:31

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

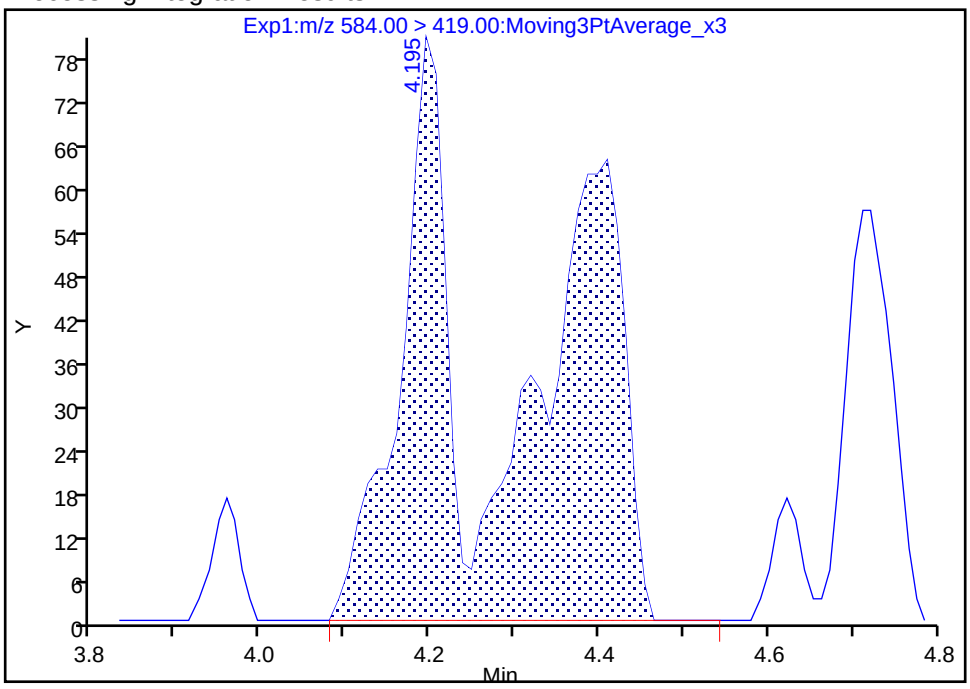
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

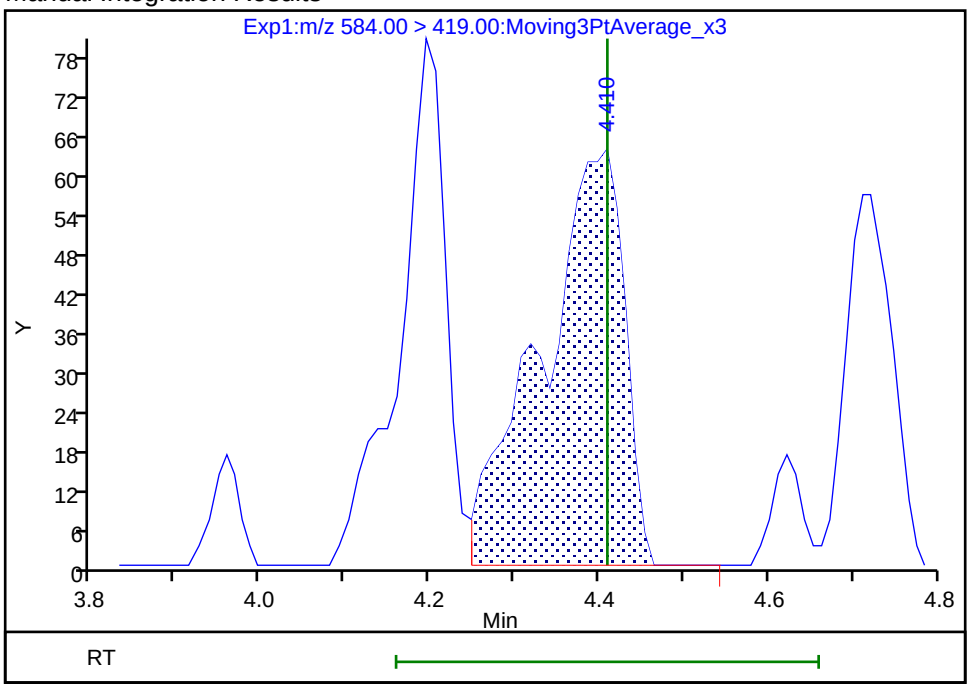
Processing Integration Results

RT: 4.20
Area: 742
Amount: 0.003813
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 436
Amount: 0.002241
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 12:02:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

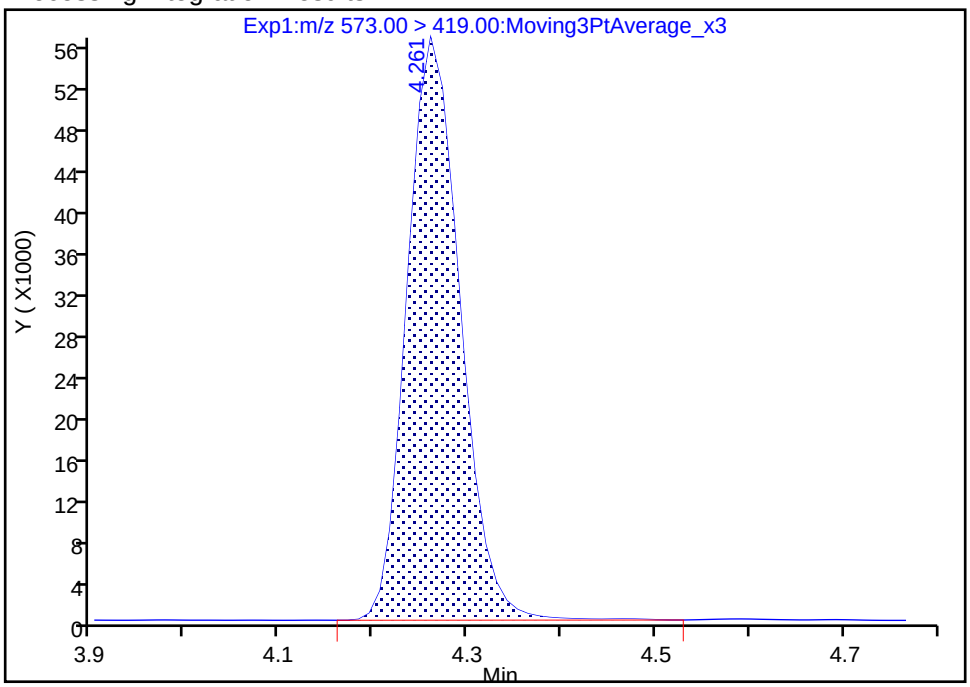
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

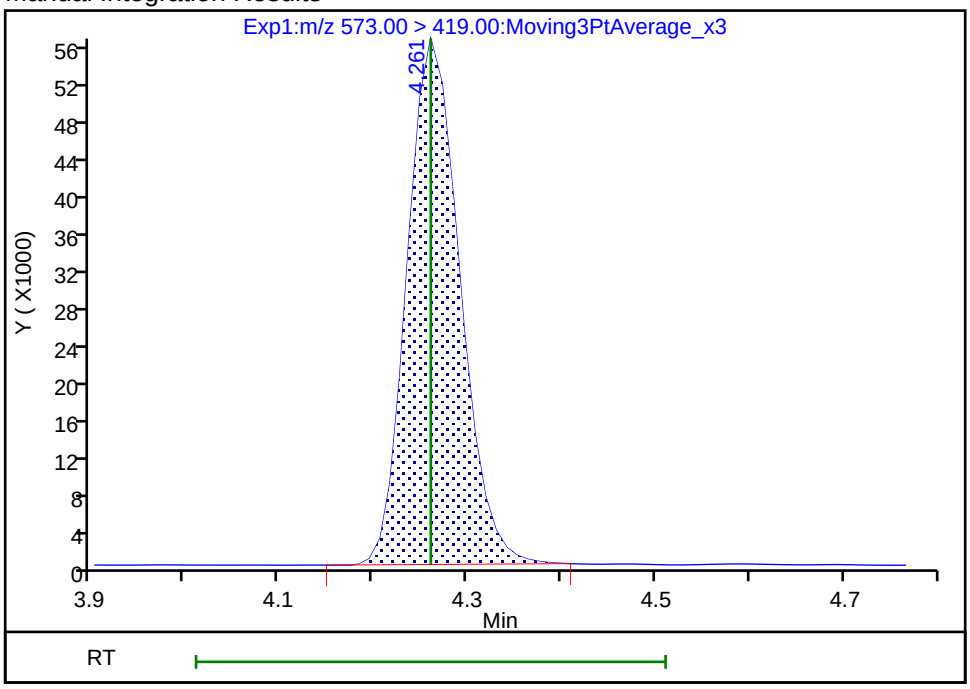
Processing Integration Results

RT: 4.26
Area: 221979
Amount: 1.408939
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 220310
Amount: 1.398345
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 14:18:08

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

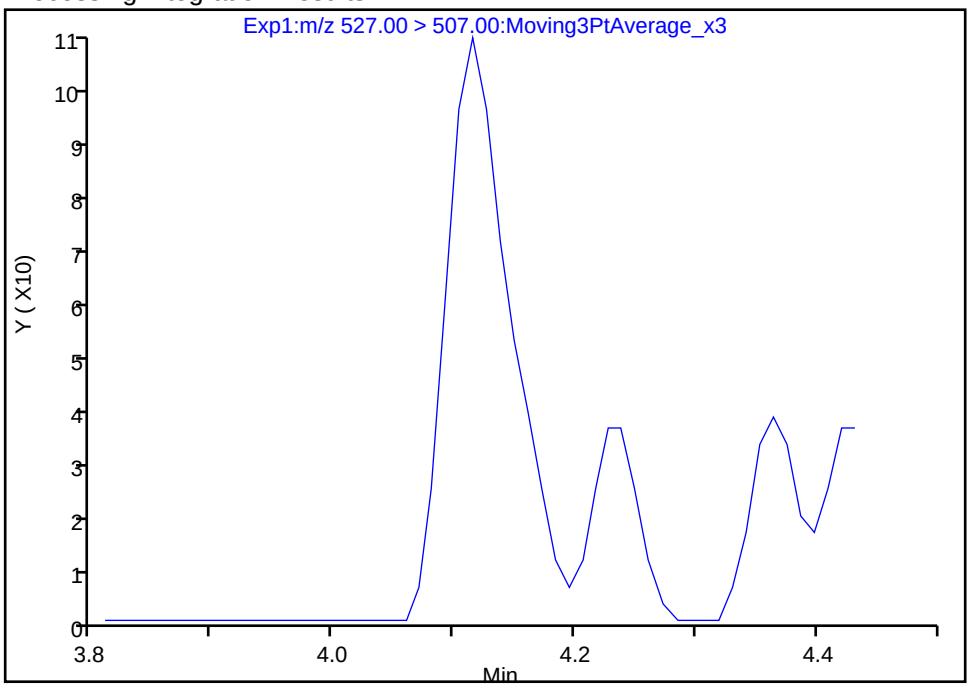
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A22.d				
Injection Date:	13-Jun-2022 20:00:40	Instrument ID:	LC812		
Lims ID:	480-198818-D-5-A	Lab Sample ID:	200-198818-5		
Client ID:	MW-6B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

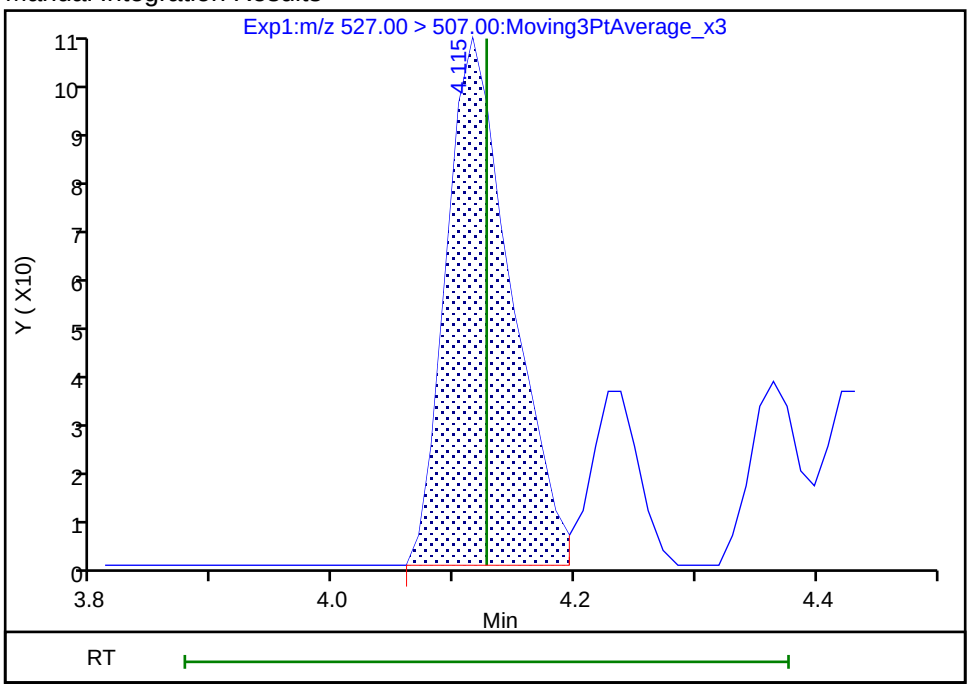
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.12
Area: 393
Amount: 0.001741
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 12:01:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Burlington Job No.: 480-198720-1 Analy Batch No.: 179551

SDG No.: 198720

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/05/2022 15:13 Calibration End Date: 05/05/2022 15:54 Calibration ID: 48131

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-179551/5	PA220505ICAL05.d
Level 2	IC 200-179551/6	PA220505ICAL06.d
Level 3	IC 200-179551/7	PA220505ICAL07.d
Level 4	ICIS 200-179551/8	PA220505ICAL08.d
Level 5	IC 200-179551/9	PA220505ICAL09.d
Level 6	IC 200-179551/10	PA220505ICAL10.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorobutanoic acid (PFBA)	1.0206 0.8964	0.9696	0.9802	0.8933	0.9021	AveID		0.9437				5.7		20.0			
Perfluoropentanoic acid (PFPeA)	0.9786 0.9957	1.0602	1.1058	0.9912	0.9833	AveID		1.0191				5.1		20.0			
Perfluorobutanesulfonic acid (PFBS)	1.1592 1.0570	1.1041	1.1397	1.0191	1.0610	AveID		1.0900				4.9		20.0			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.6389 2.4588	2.7684	2.4857	2.3841	2.3278	AveID		2.5106				6.6		20.0			
Perfluorohexanoic acid (PFHxA)	1.1194 1.0561	1.1382	1.1362	0.9754	1.0508	AveID		1.0794				5.9		20.0			
Perfluoropentanesulfonic acid (PFPeS)	1.2936 1.1941	1.2748	1.2907	1.1355	1.2213	AveID		1.2350				5.1		20.0			
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.1702 0.9852	1.1636	1.1295	1.0316	1.0673	AveID		1.0912				6.9		20.0			
Perfluorohexanesulfonic acid (PFHxS)	1.2259 1.0750	1.1483	1.1119	1.0345	1.0360	AveID		1.1053				6.7		20.0			
Perfluoroheptanoic acid (PFHpA)	1.0572 0.9851	1.0145	1.0211	1.0286	0.9568	AveID		1.0106				3.5		20.0			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.3099 2.8031	3.3774	3.4261	3.0565	3.1988	AveID		3.1953				7.3		20.0			
6:2 FTS	2.3693 1.5410	1.9860	1.7087	1.5493	1.5314	L1ID	0.0421	1.5330							1.0000		0.9900
Perfluoroheptanesulfonic acid (PFHpS)	1.2490 1.1296	1.2762	1.2670	1.1190	1.1710	AveID		1.2020				5.9		20.0			
Perfluorooctanoic acid (PFOA)	1.1453 1.0726	1.1689	1.1747	1.1041	1.0542	AveID		1.1199				4.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Burlington Job No.: 480-198720-1 Analy Batch No.: 179551

SDG No.: 198720

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/05/2022 15:13 Calibration End Date: 05/05/2022 15:54 Calibration ID: 48131

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorooctanesulfonic acid (PFOS)	1.1699 1.0134	1.1497	1.0957	0.9765	1.0021	AveID		1.0679				7.7		20.0			
Perfluorononanoic acid (PFNA)	1.0527 0.9542	0.9840	1.0155	0.8807	0.9161	AveID		0.9672				6.6		20.0			
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	1.7332 1.7177	1.8403	1.8737	1.6548	1.7685	AveID		1.7647				4.6		20.0			
Perfluorononanesulfonic acid (PFNS)	0.8803 0.7338	0.8610	0.8676	0.7336	0.7766	AveID		0.8088				8.5		20.0			
Perfluorodecanoic acid (PFDA)	1.0830 0.9639	1.1333	1.1397	1.0186	1.0538	AveID		1.0654				6.4		20.0			
8:2 FTS	1.3168 1.0547	1.0536	1.1539	1.0469	1.0526	AveID		1.1131				9.7		20.0			
Perfluorooctanesulfonamide (FOSA)	1.0840 0.9693	1.0586	1.0302	0.9700	0.9763	AveID		1.0147				4.9		20.0			
N-methylperfluorooctanesulfonamido acetic acid (NMeFOSAA)	0.9492 0.8659	0.9221	0.9194	0.9418	0.8580	AveID		0.9094				4.2		20.0			
Perfluorodecanesulfonic acid (PFDS)	0.5694 0.5970	0.6738	0.6588	0.5863	0.6153	AveID		0.6168				6.7		20.0			
Perfluoroundecanoic acid (PFUnA)	1.1347 0.9456	0.9765	1.0916	1.0087	1.0263	AveID		1.0306				6.9		20.0			
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.0326 0.8979	0.9577	0.9771	0.8841	0.8795	AveID		0.9381				6.5		20.0			
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	2.5918 2.1815	2.4940	2.6491	2.3044	2.4273	AveID		2.4413				7.2		20.0			
Perfluorododecanoic acid (PFDoA)	1.1033 0.9460	1.0907	1.0643	0.9885	0.9954	AveID		1.0314				6.2		20.0			
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	0.4794 0.5937	0.5830	0.5886	0.5380	0.5382	AveID		0.5535				8.0		20.0			
Perfluorododecanesulfonic acid (PFDoS)	0.2776 0.2619	0.2882	0.3104	0.2675	0.2761	AveID		0.2803				6.2		20.0			
Perfluorotridecanoic acid (PFTriA)	0.9330 0.8143	0.9078	0.8915	0.8398	0.8841	AveID		0.8784				5.0		20.0			
Perfluorotetradecanoic acid (PFTeA)	0.1514 0.1535	0.1632	0.1647	0.1507	0.1435	AveID		0.1545				5.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Burlington Job No.: 480-198720-1 Analy Batch No.: 179551

SDG No.: 198720

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/05/2022 15:13 Calibration End Date: 05/05/2022 15:54 Calibration ID: 48131

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluoro-n-hexadecanoic acid (PFHxDA)	1.1445 0.8799	1.0541	1.0173	0.8977	0.8589	L1ID	0.0176	0.8770							0.9990		0.9900
Perfluoro-n-octadecanoic acid (PFODA)	0.6897 0.6754	0.6771	0.7867	0.6787	0.6721	AveID		0.6966				6.4		20.0			
13C4 PFBA	1.0498 1.0915	1.0649	1.0478	1.0854	1.0300	Ave		1.0616				2.2		50.0			
13C5 PFPeA	0.8286 0.7974	0.8120	0.7983	0.8196	0.8129	Ave		0.8115				1.5		50.0			
13C3 PFBS	1.1702 1.2147	1.1676	1.1472	1.1933	1.1666	Ave		1.1766				2.0		50.0			
M2-4:2 FTS	0.0973 0.0960	0.0964	0.0975	0.0987	0.0980	Ave		0.0973				1.0		50.0			
13C2 PFHxA	0.8433 0.8240	0.8206	0.8120	0.8723	0.8065	Ave		0.8298				2.9		50.0			
13C3 HFPO-DA	0.1462 0.1529	0.1384	0.1351	0.1420	0.1376	Ave		0.1420				4.6		50.0			
18O2 PFHxS	0.9172 0.9388	0.9211	0.8791	0.9541	0.9115	Ave		0.9203				2.8		50.0			
13C4 PFHpA	0.8762 0.9006	0.9235	0.8767	0.8930	0.9018	Ave		0.8953				2.0		50.0			
M2-6:2 FTS	0.1579 0.1408	0.1505	0.1507	0.1548	0.1460	Ave		0.1501				4.1		50.0			
13C4 PFOA	0.9909 0.9154	0.9558	0.9066	0.9198	0.9601	Ave		0.9414				3.5		50.0			
13C4 PFOS	0.7233 0.7564	0.7093	0.6830	0.7598	0.7061	Ave		0.7230				4.2		50.0			
13C5 PFNA	1.0320 1.0269	1.0069	1.0127	1.0555	1.0039	Ave		1.0230				1.9		50.0			
13C2 PFDA	1.0069 0.9768	0.9953	0.9388	1.0403	0.9523	Ave		0.9850				3.8		50.0			
M2-8:2 FTS	0.1809 0.1710	0.1863	0.1757	0.1905	0.1776	Ave		0.1803				4.0		50.0			
13C8 FOSA	1.0745 1.1467	1.0521	1.0485	1.1077	1.0729	Ave		1.0837				3.4		50.0			
d3-NMeFOSAA	0.1267 0.1452	0.1249	0.1240	0.1298	0.1339	Ave		0.1307				6.1		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Burlington Job No.: 480-198720-1 Analy Batch No.: 179551

SDG No.: 198720

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/05/2022 15:13 Calibration End Date: 05/05/2022 15:54 Calibration ID: 48131

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
13C2 PFUnA	0.7463 0.8121	0.8396	0.7860	0.8090	0.7522	Ave		0.7909				4.6		50.0			
d5-NEtFOSAA	0.1283 0.1308	0.1293	0.1195	0.1316	0.1267	Ave		0.1277				3.4		50.0			
13C2 PFDoA	0.8513 0.8902	0.8455	0.8367	0.8458	0.7982	Ave		0.8446				3.5		50.0			
13C2 PFTeDA	0.6957 0.7162	0.6523	0.6612	0.6848	0.7317	Ave		0.6903				4.5		50.0			
13C2 PFHxDA	0.7165 0.7320	0.7204	0.6657	0.7301	0.7286	Ave		0.7156				3.5		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Burlington Job No.: 480-198720-1 Analy Batch No.: 179551

SDG No.: 198720

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/05/2022 15:13 Calibration End Date: 05/05/2022 15:54 Calibration ID: 48131

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-179551/5	PA220505ICAL05.d
Level 2	IC 200-179551/6	PA220505ICAL06.d
Level 3	IC 200-179551/7	PA220505ICAL07.d
Level 4	ICIS 200-179551/8	PA220505ICAL08.d
Level 5	IC 200-179551/9	PA220505ICAL09.d
Level 6	IC 200-179551/10	PA220505ICAL10.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Perfluorobutanoic acid (PFBA)		AveID	72051 12078394	140836	701576	1271152	3217740	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoropentanoic acid (PFPeA)		AveID	54526 9800820	117429	603035	1064917	2768542	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorobutanesulfonic acid (PFBS)		AveID	80644 14011999	155442	789553	1409337	3789288	0.0442 8.84	0.0884	0.442	0.884	2.21
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)		AveID	16130 2722524	33986	154627	288222	737713	0.0467 9.34	0.0934	0.467	0.934	2.34
Perfluorohexanoic acid (PFHxA)		AveID	63483 10743130	127402	630224	1115338	2935079	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoropentanesulfonic acid (PFPeS)		AveID	74843 12980438	150245	727041	1332190	3616305	0.0469 9.38	0.0938	0.469	0.938	2.35
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		AveID	11506 1859903	21970	104231	192074	508499	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorohexanesulfonic acid (PFHxS)		AveID	68807 11337777	131294	607640	1177548	2975936	0.0455 9.10	0.0910	0.455	0.910	2.28
Perfluoroheptanoic acid (PFHpA)		AveID	62294 10952447	127791	611466	1204223	2988268	0.0500 10.0	0.100	0.500	1.00	2.50

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Burlington Job No.: 480-198720-1 Analy Batch No.: 179551

SDG No.: 198720

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/05/2022 15:13 Calibration End Date: 05/05/2022 15:54 Calibration ID: 48131

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		AveI D	151657 24656680	307811	1505829	2867935	7368416	0.0471 9.42	0.0942	0.471	0.942	2.36
6:2 FTS		L1ID	23854 2539801	38649	166760	298141	733854	0.0474 9.48	0.0948	0.474	0.948	2.37
Perfluoroheptanesulfonic acid (PFHpS)		AveI D	57834 10042026	117549	562768	1061112	2726119	0.0476 9.52	0.0952	0.476	0.952	2.38
Perfluorooctanoic acid (PFOA)		AveI D	76313 12119765	152395	727519	1331372	3505323	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorooctanesulfonic acid (PFOS)		AveI D	52805 8781538	103222	474428	902663	2274091	0.0464 9.28	0.0928	0.464	0.928	2.32
Perfluorononanoic acid (PFNA)		AveI D	73055 12096706	135136	702491	1218555	3185158	0.0500 10.0	0.100	0.500	1.00	2.50
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O		AveI D	78569 14949096	165943	814771	1536250	4030490	0.0466 9.32	0.0932	0.466	0.932	2.33
Perfluorononanesulfonic acid (PFNS)		AveI D	41103 6577796	79971	388599	701542	1823060	0.0480 9.60	0.0960	0.480	0.960	2.40
Perfluorodecanoic acid (PFDA)		AveI D	73329 11622472	153848	730897	1389045	3475217	0.0500 10.0	0.100	0.500	1.00	2.50
8:2 FTS		AveI D	15343 2132942	25648	132678	250441	620056	0.0479 9.58	0.0958	0.479	0.958	2.40
Perfluorooctanesulfonamide (FOSA)		AveI D	78326 13720217	151919	737822	1408577	3627662	0.0500 10.0	0.100	0.500	1.00	2.50
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)		AveI D	8087 1552281	15705	77891	160272	397876	0.0500 10.0	0.100	0.500	1.00	2.50

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Burlington Job No.: 480-198720-1 Analy Batch No.: 179551

SDG No.: 198720

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/05/2022 15:13 Calibration End Date: 05/05/2022 15:54 Calibration ID: 48131

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Perfluorodecanesulfonic acid (PFDS)		AveId	26697 5373701	62843	296331	562978	1450529	0.0482 9.64	0.0964	0.482	0.964	2.41
Perfluoroundecanoic acid (PFUnA)		AveId	56949 9479607	111834	586147	1069785	2673619	0.0500 10.0	0.100	0.500	1.00	2.50
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)		AveId	8908 1449802	16891	79779	152563	386005	0.0500 10.0	0.100	0.500	1.00	2.50
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF		AveId	118752 19188900	227295	1164314	2162261	5591229	0.0471 9.42	0.0942	0.471	0.942	2.36
Perfluorododecanoic acid (PFDoA)		AveId	63159 10395977	125791	608340	1096003	2751740	0.0500 10.0	0.100	0.500	1.00	2.50
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)		AveId	5621 1208149	14280	68102	129499	319011	0.0482 9.64	0.0964	0.482	0.964	2.41
Perfluorododecanesulfonic acid (PFDoS)		AveId	13071 2367101	26987	140173	257916	653613	0.0484 9.68	0.0968	0.484	0.968	2.42
Perfluorotridecanoic acid (PFTriA)		AveId	53411 8948073	104704	509549	931092	2444128	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorotetradecanoic acid (PFTeA)		AveId	7085 1357469	14521	74395	135318	363547	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoro-n-hexadecanoic acid (PFHxDA)		L1ID	55148 7951047	103574	462568	859211	2167265	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoro-n-octadecanoic acid (PFODA)		AveId	33231 6103858	66537	357707	649655	1696027	0.0500 10.0	0.100	0.500	1.00	2.50
13C4 PFBA	13PFOA	Ave	1764914 1684322	1815696	1789335	1778646	1783532	1.25 1.25	1.25	1.25	1.25	1.25

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Burlington Job No.: 480-198720-1 Analy Batch No.: 179551

SDG No.: 198720

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/05/2022 15:13 Calibration End Date: 05/05/2022 15:54 Calibration ID: 48131

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
13C5 PFPeA	13PF OA	Ave	1393000 1230429	1384459	1363294	1342973	1407730	1.25 1.25	1.25	1.25	1.25	1.25
13C3 PFBS	13PF OA	Ave	1829681 1743238	1851461	1821993	1818552	1878647	1.16 1.16	1.16	1.16	1.16	1.16
M2-4:2 FTS	13PF OA	Ave	152810 138405	153457	155519	151117	158459	1.17 1.17	1.17	1.17	1.17	1.17
13C2 PFHxA	13PF OA	Ave	1417729 1271512	1399164	1386720	1429355	1396626	1.25 1.25	1.25	1.25	1.25	1.25
13C3 HFPO-DA	13PF OA	Ave	245807 235980	236016	230708	232730	238207	1.25 1.25	1.25	1.25	1.25	1.25
18O2 PFHxS	13PF OA	Ave	1458715 1370449	1485765	1420232	1479084	1493087	1.18 1.18	1.18	1.18	1.18	1.18
13C4 PFHpA	13PF OA	Ave	1473031 1389706	1574522	1497120	1463358	1561665	1.25 1.25	1.25	1.25	1.25	1.25
M2-6:2 FTS	13PF OA	Ave	252231 206459	243778	244497	241054	240108	1.19 1.19	1.19	1.19	1.19	1.19
13C4 PFOA	13PF OA	Ave	1665838 1412485	1629748	1548287	1507252	1662606	1.25 1.25	1.25	1.25	1.25	1.25
13C4 PFOS	13PF OA	Ave	1162494 1115869	1156161	1115109	1190325	1168859	1.20 1.20	1.20	1.20	1.20	1.20
13C5 PFNA	13PF OA	Ave	1734937 1584674	1716741	1729455	1729599	1738420	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFDA	13PF OA	Ave	1692740 1507228	1696948	1603259	1704667	1648953	1.25 1.25	1.25	1.25	1.25	1.25

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Burlington Job No.: 480-198720-1 Analy Batch No.: 179551

SDG No.: 198720

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/05/2022 15:13 Calibration End Date: 05/05/2022 15:54 Calibration ID: 48131

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
M2-8:2 FTS	13PFOA	Ave	291300 252791	304283	287452	299016	294549	1.20 1.20	1.20	1.20	1.20	1.20
13C8 FOSA	13PFOA	Ave	1806437 1769412	1793869	1790546	1815194	1857858	1.25 1.25	1.25	1.25	1.25	1.25
d3-NMeFOSAA	13PFOA	Ave	212989 224082	212896	211787	212716	231863	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFUnA	13PFOA	Ave	1254675 1253108	1431508	1342382	1325739	1302590	1.25 1.25	1.25	1.25	1.25	1.25
d5-NEtFOSAA	13PFOA	Ave	215675 201832	220474	204125	215694	219457	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFDoA	13PFOA	Ave	1431189 1373650	1441679	1428905	1385963	1382222	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFTeDA	13PFOA	Ave	1169586 1105099	1112193	1129167	1122215	1266993	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFHxDA	13PFOA	Ave	1204588 1129598	1228255	1136803	1196433	1261675	1.25 1.25	1.25	1.25	1.25	1.25

Curve Type Legend
Ave = Average ISTD
AveID = Average isotope dilution
L1ID = Linear 1/conc IsoDil

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 05-May-2022 15:13:34 ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 200-0050718-005 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 05-May-2022 16:21:57 Calib Date: 05-May-2022 15:54:29
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1631

First Level Reviewer: deannd Date: 05-May-2022 15:35:47
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.102	2.102	0.0	1.000	72051	0.0541		108	16.2	M
D 1 13C4 PFBA										M
217.00 > 172.00	2.102	2.102	0.0	0.601	1764914	1.24		98.9	8932	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.413	2.413	0.0	0.690	1393000	1.28		102	3790	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.413	2.413	0.0	1.000	54526	0.0480		96.0	3.2	M
D 47 13C3 PFBS										
301.90 > 80.00	2.427	2.427	0.0	0.693	1829681	1.16		99.5	325543	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.440	2.440	0.0	1.006	80644	0.0470	Target=2.18	106	100	M
298.90 > 99.00	2.440	2.440	0.0	1.006	35538		2.27(1.09-3.27)	106	21.7	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.737	2.738	-0.001	1.000	16130	0.0491		105	266	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.737	2.738	-0.001	0.782	152810	1.17		100	170	M
D 7 13C2 PFHxA										M
315.00 > 270.00	2.774	2.774	0.0	0.793	1417729	1.27		102	2306	M
6 Perfluorohexanoic acid										
313.00 > 269.00	2.774	2.774	0.0	1.000	63483	0.0519	Target=12.96	104	8.8	
313.00 > 119.00	2.774	2.774	0.0	1.000	4305		14.75(6.48-19.44)	104	3.9	
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.774	2.774	0.0	0.883	74843	0.0491	Target=3.01	105	116	
349.00 > 99.00	2.774	2.774	0.0	0.883	24198		3.09(1.50-4.51)	105	54.4	M
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.883	2.884	-0.001	0.824	245807	1.29		103	1549	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.883	2.884	-0.001	1.000	11506	0.0536		107	171	M
D 11 18O2 PFHxS										M
403.00 > 84.00	3.143	3.132	0.011	0.898	1458715	1.18		99.7	1753	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.132	3.132	0.0	0.996	68807	0.0505	Target=3.51	111	166	M
399.00 > 99.00	3.143	3.132	0.011	1.000	18325		3.75(1.76-5.27)	111	28.9	M
D 9 13C4 PFHpA										M
367.00 > 322.00	3.143	3.143	0.0	0.898	1473031	1.22		97.9	1234	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.143	3.143	0.0	1.000	62294	0.0523	Target=3.71	105	17.4	
363.00 > 169.00	3.143	3.143	0.0	1.000	17986		3.46(1.86-5.57)	105	28.3	M
77 DONA										
377.00 > 251.00	3.176	3.176	0.0	0.833	151657	0.0488	Target=2.68	104	239	
377.00 > 85.00	3.176	3.176	0.0	0.833	56704		2.67(1.34-4.03)	104	149	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.482	3.482	0.0	0.914	57834	0.0495	Target=5.10	104	251	
449.00 > 99.00	3.482	3.482	0.0	0.914	9815		5.89(2.55-7.66)	104	37.1	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.482	3.482	0.0	1.000	23854	0.0458		96.6	27.0	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.482	3.482	0.0	0.995	252231	1.25		105	598	
D 14 13C4 PFOA										M
417.00 > 372.00	3.500	3.491	0.009	1.000	1665838	1.32		105	1565	M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.500	3.500	0.0	1.000	76313	0.0511	Target=2.75	102	10.6	
413.00 > 169.00	3.500	3.500	0.0	1.000	25818		2.96(1.37-4.12)	102	61.1	M
* 62 13C2 PFOA										M
415.00 > 370.00	3.500	3.500	0.0		1681193	1.25			2652	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.812	3.812	0.0	1.000	52805	0.0508	Target=4.70	110	58.3	M
499.00 > 99.00	3.812	3.812	0.0	1.000	9757		5.41(2.35-7.05)	110	36.3	M
D 18 13C4 PFOS										M
503.00 > 80.00	3.812	3.812	0.0	1.089	1162494	1.20		100	2913	M
D 19 13C5 PFNA										
468.00 > 423.00	3.833	3.834	-0.001	1.095	1734937	1.26		101	1353	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.833	3.834	-0.001	1.000	73055	0.0544	Target=7.93	109	9.8	M
463.00 > 169.00	3.833	3.834	-0.001	1.000	7567		9.65(3.97-11.90)	109	87.1	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.978	3.978	0.0	1.043	78569	0.0458		98.2	203	M
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.104	4.104	0.0	1.077	41103	0.0522	Target=2.53	109	508	
549.00 > 99.00	4.104	4.104	0.0	1.077	15655		2.63(1.26-3.79)	109	77.7	M
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.127	4.127	0.0	1.000	73329	0.0508	Target=9.72	102	36.8	M
513.00 > 169.00	4.138	4.127	0.011	1.003	6842		10.72(4.86-14.57)	102	47.6	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										M
515.00 > 470.00	4.127	4.138	-0.011	1.179	1692740	1.28		102	2505	M
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.138	4.138	0.0	1.000	15343	0.0567		118	256	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.138	4.138	0.0	1.182	291300	1.20		100	940	
D 21 13C8 FOSA										M
506.00 > 78.00	4.196	4.196	0.0	1.199	1806437	1.24		99.1	2083	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.207	4.207	0.0	1.003	78326	0.0534		107	366	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.273	4.273	0.0	1.221	212989	1.21		96.9	1520	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.273	4.273	0.0	1.000	8087	0.0522		104	59.2	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.376	4.376	0.0	1.148	26697	0.0445	Target=2.47	92.3	232	
599.00 > 99.00	4.376	4.376	0.0	1.148	11552		2.31(1.23-3.70)	92.3	110	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.398	4.399	-0.001	1.000	56949	0.0551	Target=9.24	110	39.1	M
563.00 > 169.00	4.398	4.399	-0.001	1.000	7240		7.87(4.62-13.87)	110	78.6	M
D 30 13C2 PFUnA										M
565.00 > 520.00	4.398	4.399	-0.001	1.257	1254675	1.18		94.4	2055	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.410	4.410	0.0	1.260	215675	1.26		100	1059	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.410	4.410	0.0	1.000	8908	0.0550		110	128	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.491	4.504	-0.013	1.178	118752	0.0500		106	663	
D 36 13C2 PFDoA										M
615.00 > 570.00	4.633	4.633	0.0	1.324	1431189	1.26		101	1799	M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.633	4.633	0.0	1.000	63159	0.0535	Target=7.29	107	10.6	M
613.00 > 169.00	4.633	4.633	0.0	1.000	7603		8.31(3.64-10.93)	107	82.1	M
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.654	4.653	0.001	1.125	5621	0.0417		86.6	160	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.813	4.812	0.001	1.263	13071	0.0479	Target=0.54	99.1	252	
699.00 > 99.00	4.813	4.812	0.001	1.263	25269		0.52(0.27-0.81)	99.1	325	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.848	4.848	0.0	1.046	53411	0.0531	Target=4.74	106	10.6	M
663.00 > 169.00	4.848	4.848	0.0	1.046	11011		4.85(2.37-7.10)	106	111	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.042	5.042	0.0	1.000	7085	0.0490	Target=0.99	98.0	133	M
713.00 > 219.00	5.042	5.042	0.0	1.000	7364		0.96(0.49-1.48)	98.0	135	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.042	5.042	0.0	1.441	1169586	1.26		101	2755	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.389	5.388	0.001	1.540	1204588	1.25		100	1502	M
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.389	5.400	-0.011	1.000	55148	0.0452	Target=4.87	90.3	12.5	M
813.00 > 169.00	5.389	5.400	-0.011	1.000	10846		5.08(2.43-7.30)	90.3	143	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.731	5.731	0.0	1.064	33231	0.0495	Target=4.95	99.0	10.7	M
913.00 > 169.00	5.722	5.731	-0.009	1.062	7233		4.59(2.47-7.42)	99.0	118	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

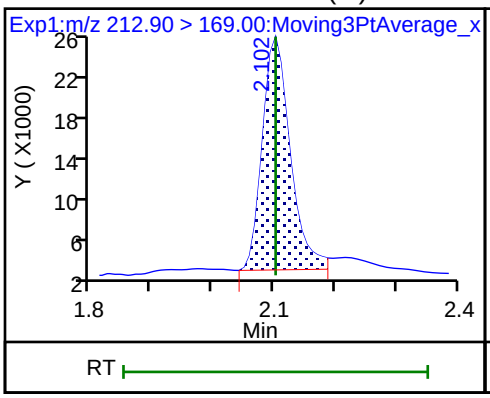
PFAS32NCIC1_00011 Amount Added: 100.00 Units: uL

Report Date: 05-May-2022 16:21:57 Chrom Revision: 2.3 02-May-2022 18:31:28

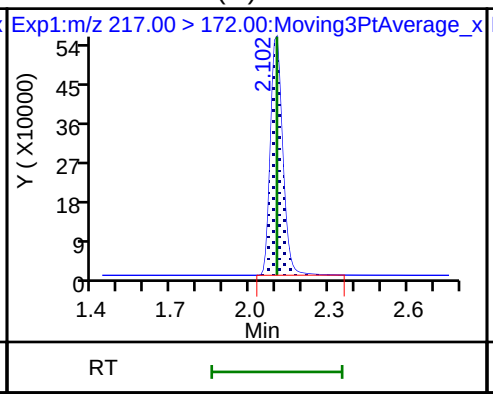
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL

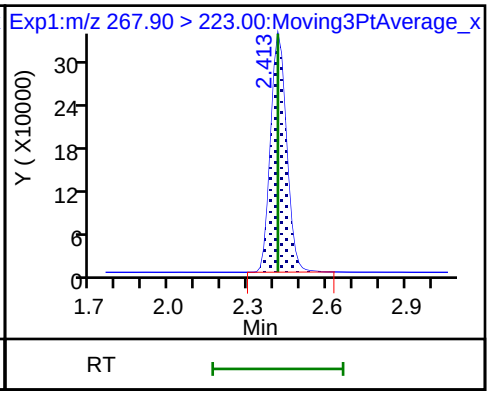
2 Perfluorobutanoic acid (M)



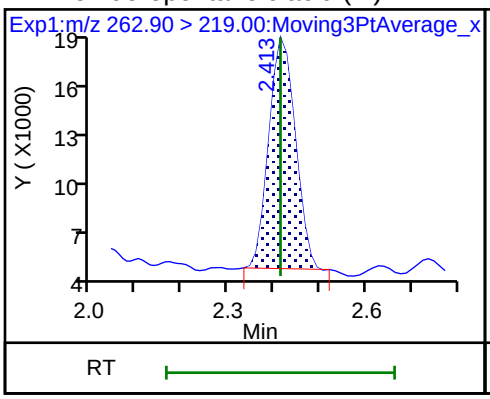
D 1 13C4 PFBA (M)



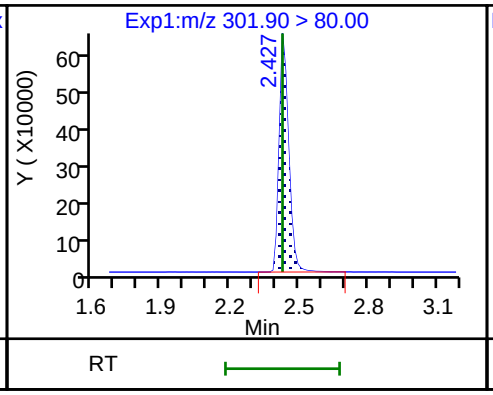
D 3 13C5 PFPeA



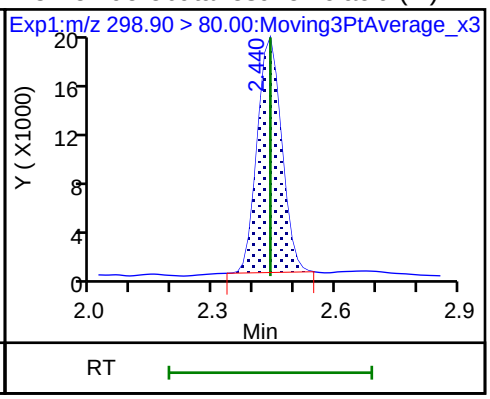
4 Perfluoropentanoic acid (M)



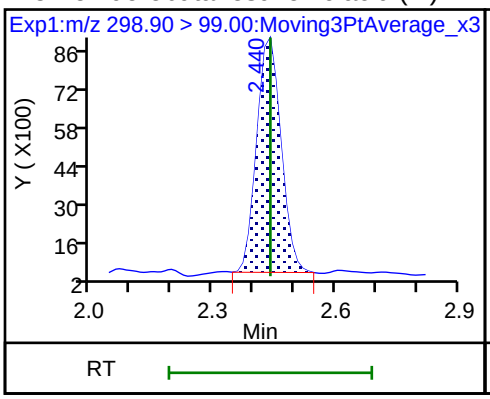
D 47 13C3 PFBS



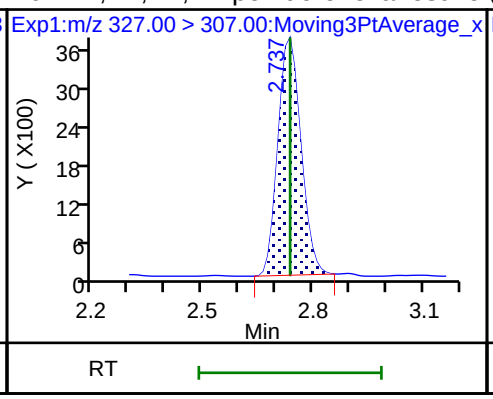
5 Perfluorobutanesulfonic acid (M)



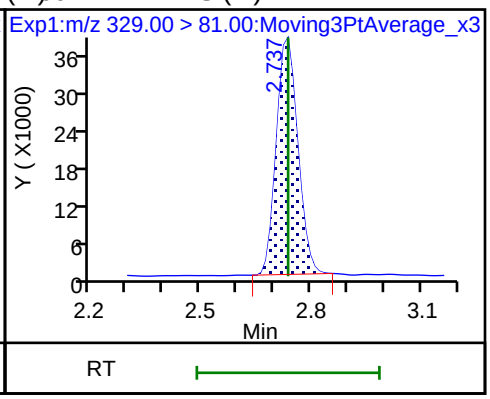
5 Perfluorobutanesulfonic acid (M)



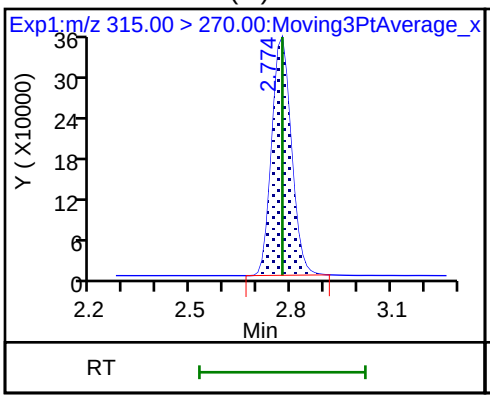
61 1H,1H,2H,2H-perfluorohexanesulfo (M)



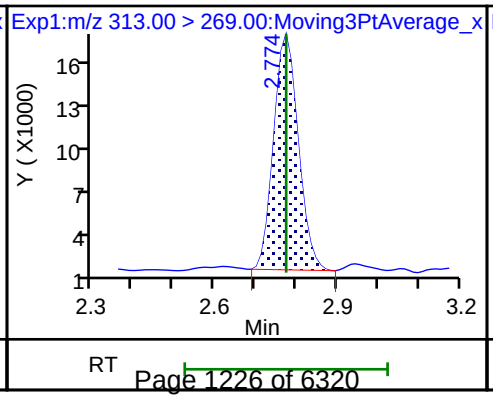
60 M2-4:2 FTS (M)



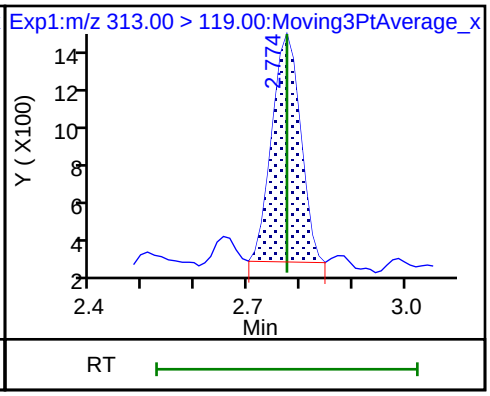
D 7 13C2 PFHxA (M)



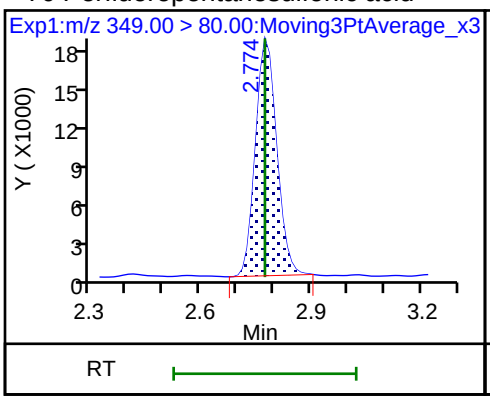
6 Perfluorohexanoic acid



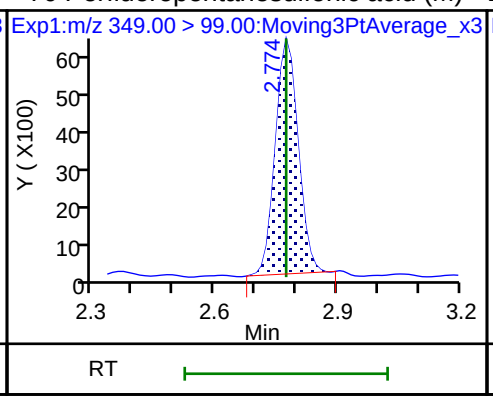
6 Perfluorohexanoic acid



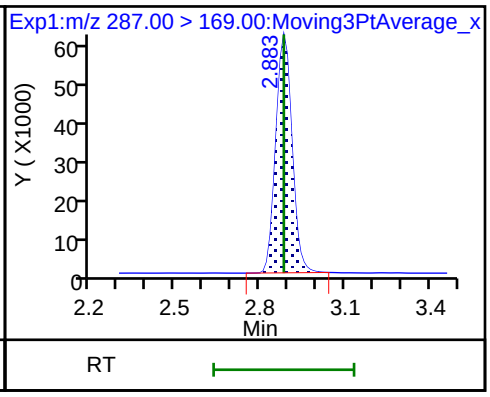
70 Perfluoropentanesulfonic acid



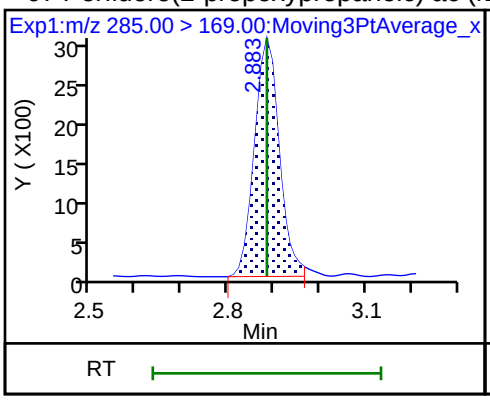
70 Perfluoropentanesulfonic acid (M)



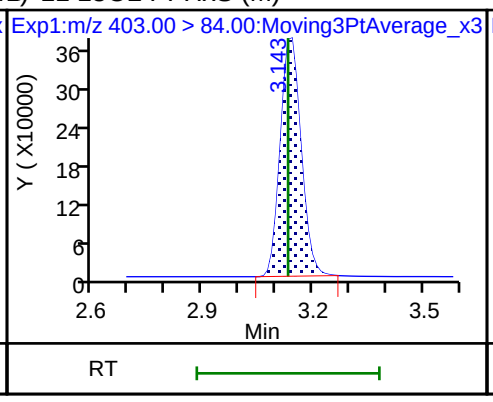
D 64 13C3 HFPO-DA



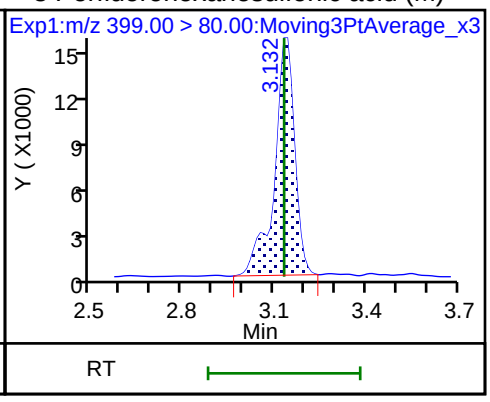
67 Perfluoro(2-propoxypropanoic) ac (M)



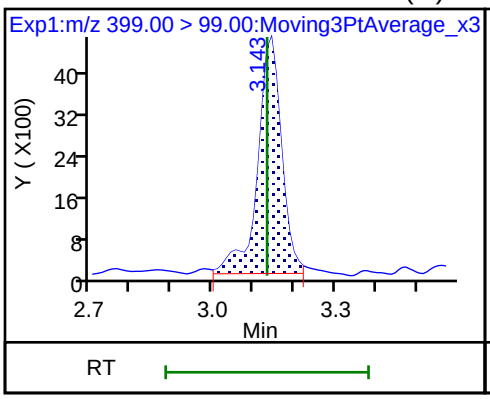
D 11 18O2 PFHxS (M)



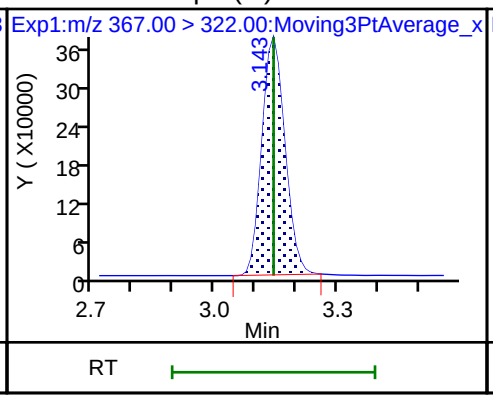
8 Perfluorohexanesulfonic acid (M)



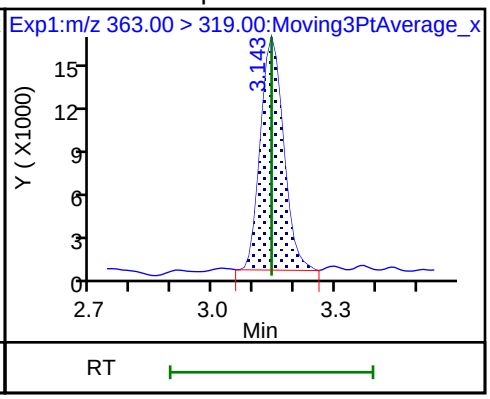
8 Perfluorohexanesulfonic acid (M)



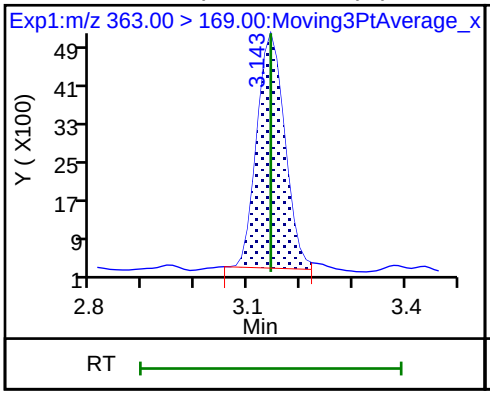
D 9 13C4 PFHpA (M)



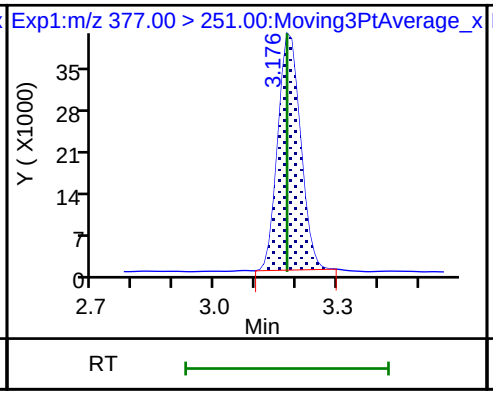
10 Perfluoroheptanoic acid



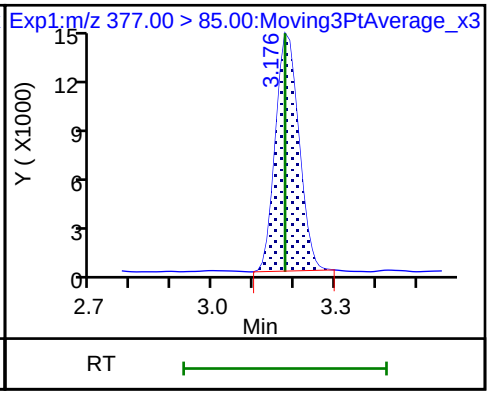
10 Perfluoroheptanoic acid (M)



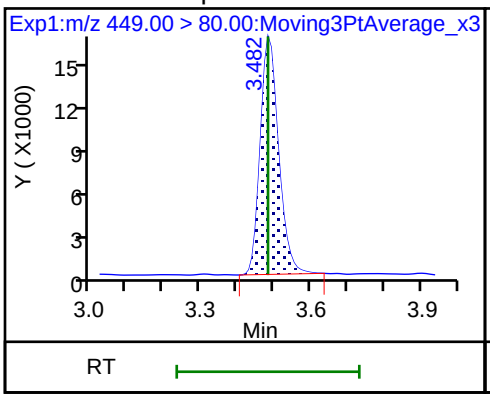
77 DONA



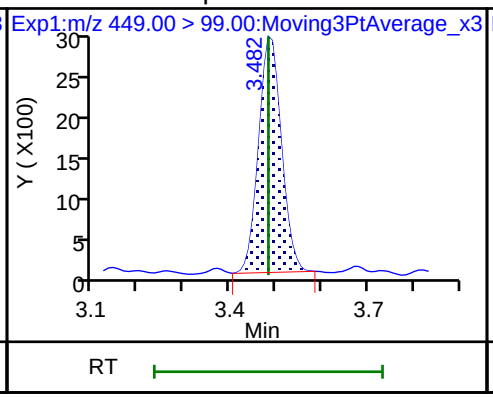
77 DONA



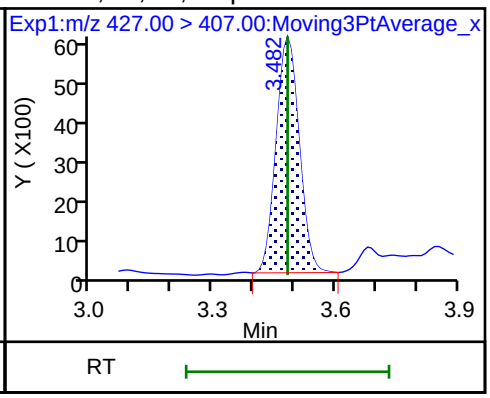
16 Perfluoroheptanesulfonic acid



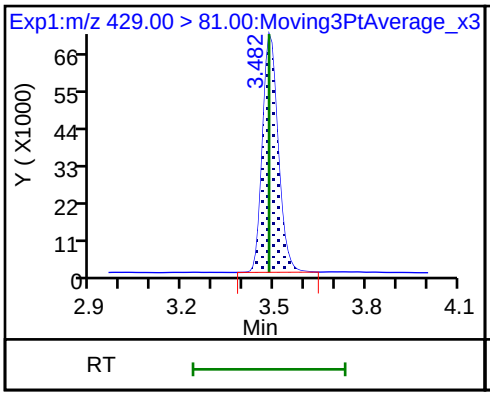
16 Perfluoroheptanesulfonic acid



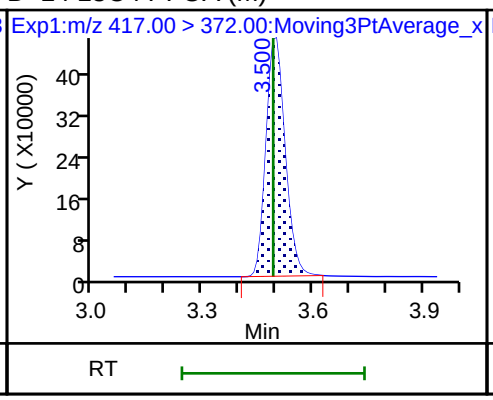
13 1H,1H,2H,2H-perfluorooctanesulfo



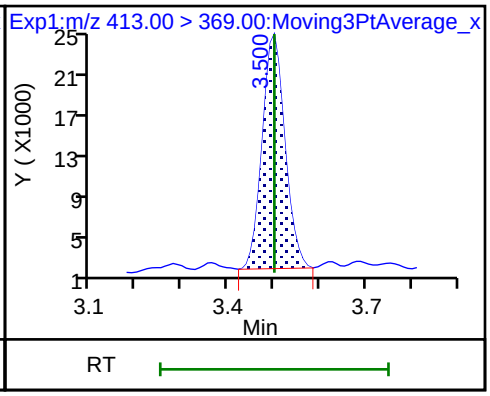
D 12 M2-6:2 FTS



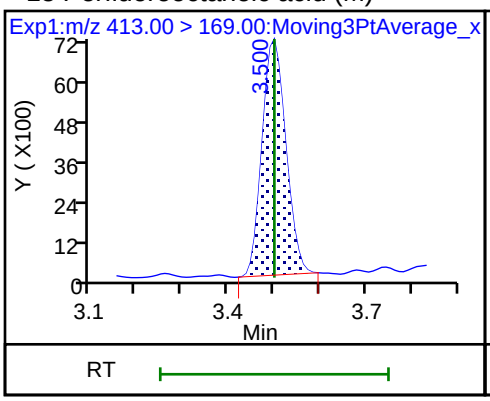
D 14 13C4 PFOA (M)



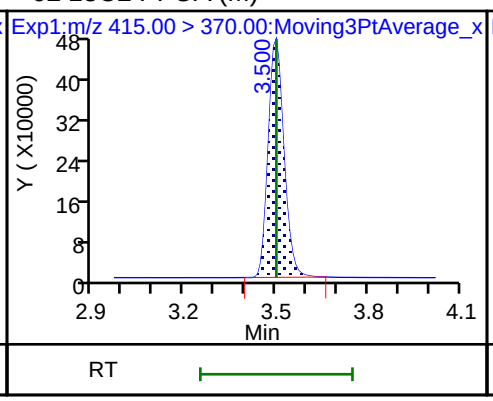
15 Perfluorooctanoic acid



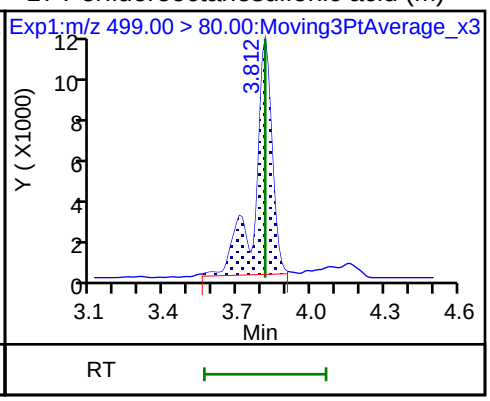
15 Perfluorooctanoic acid (M)



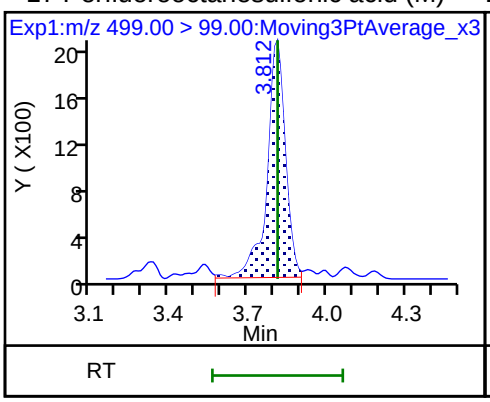
* 62 13C2 PFOA (M)



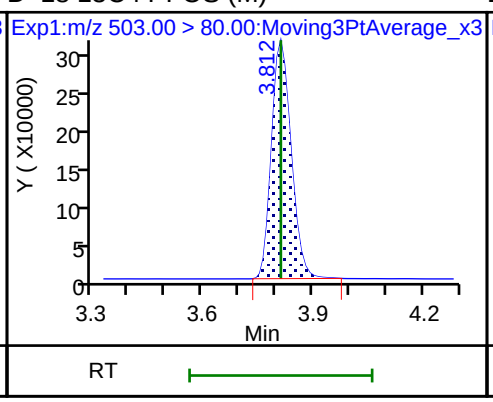
17 Perfluorooctanesulfonic acid (M)



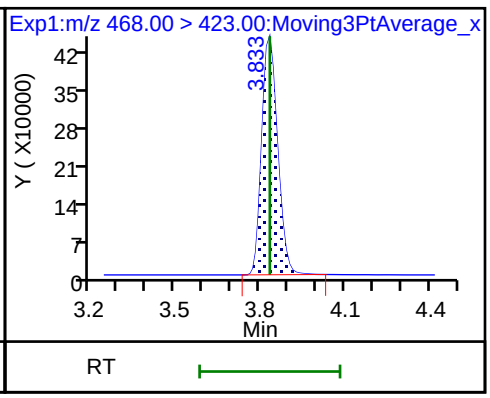
17 Perfluorooctanesulfonic acid (M)



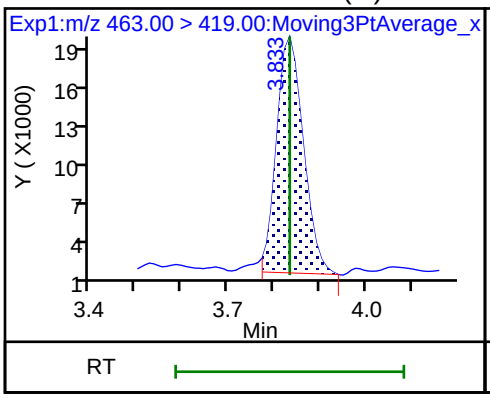
D 18 13C4 PFOS (M)



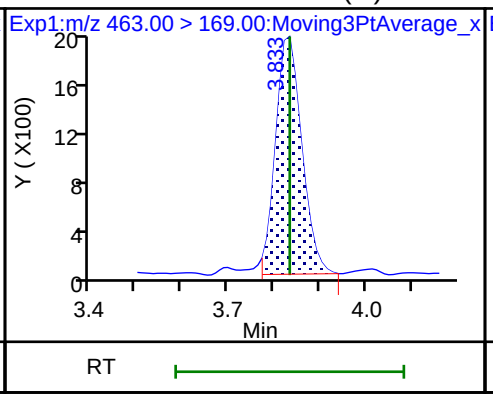
D 19 13C5 PFNA



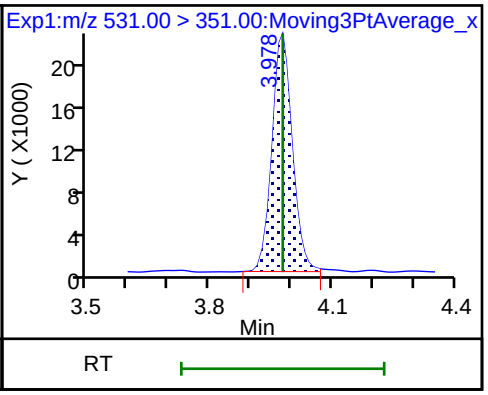
20 Perfluorononanoic acid (M)



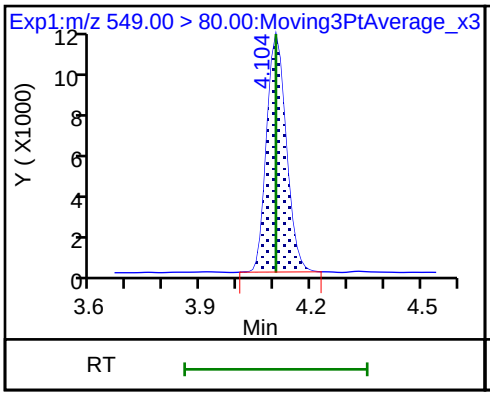
20 Perfluorononanoic acid (M)



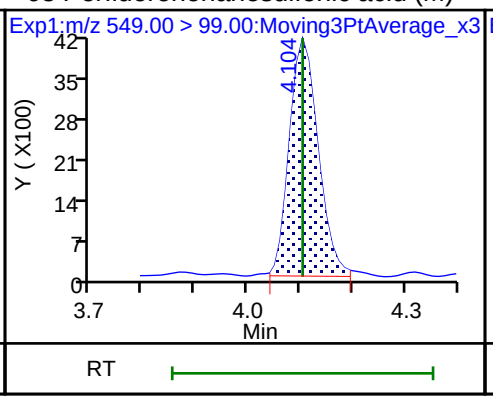
69 9-Chlorohexadecafluoro-3-oxanona (M)



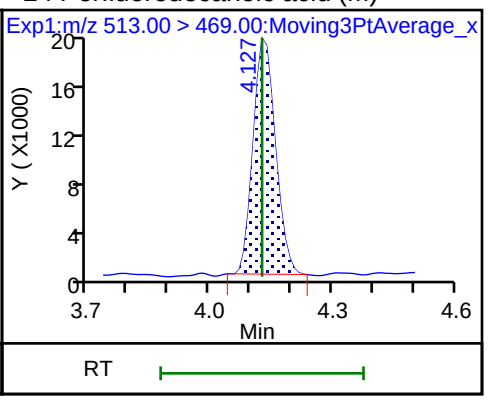
68 Perfluorononanesulfonic acid



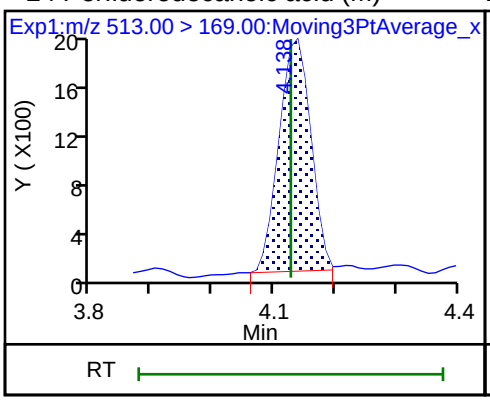
68 Perfluorononanesulfonic acid (M)



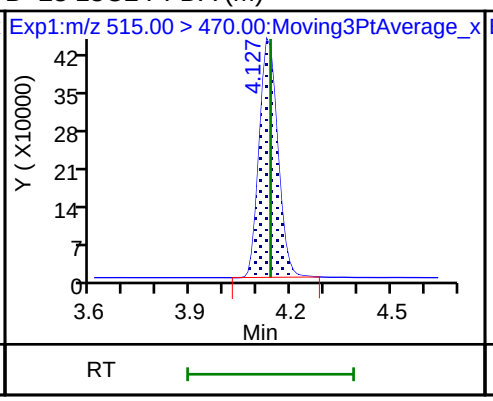
24 Perfluorodecanoic acid (M)



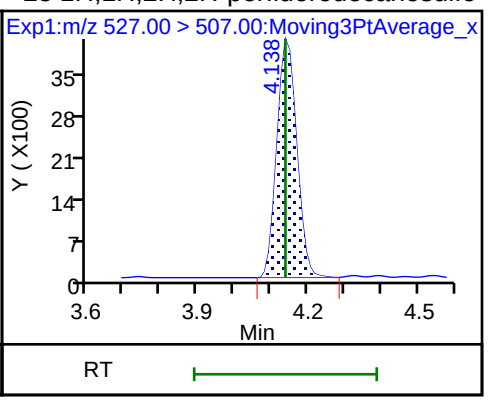
24 Perfluorodecanoic acid (M)



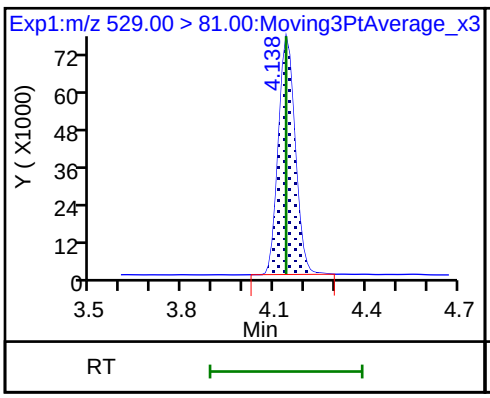
D 23 13C2 PFDA (M)



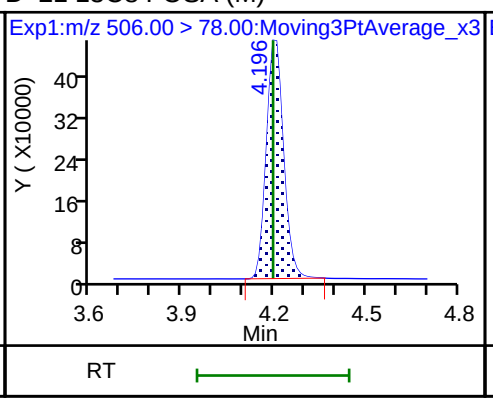
25 1H,1H,2H,2H-perfluorodecanesulfo



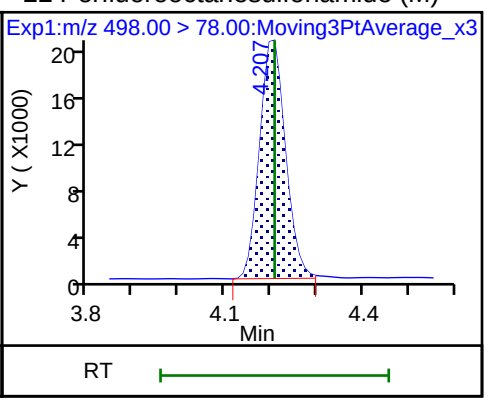
D 26 M2-8:2 FTS



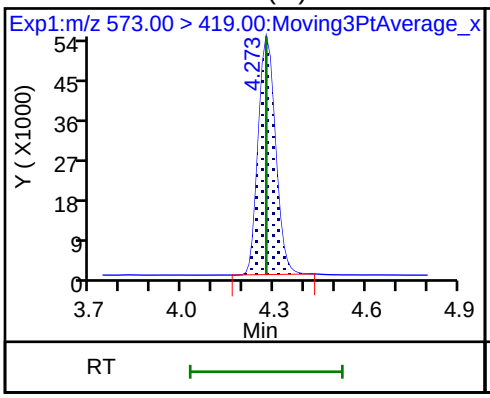
D 21 13C8 FOSA (M)



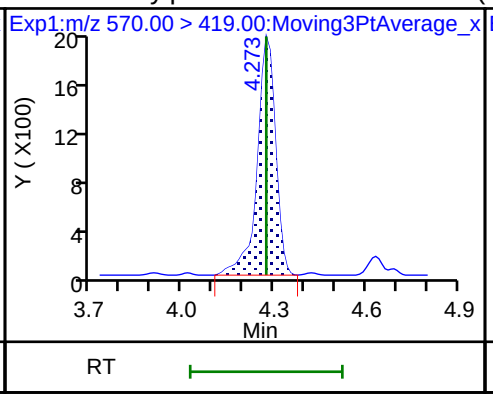
22 Perfluorooctanesulfonamide (M)



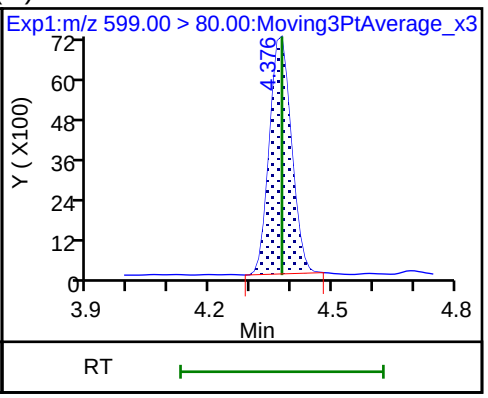
D 27 d3-NMeFOSAA (M)



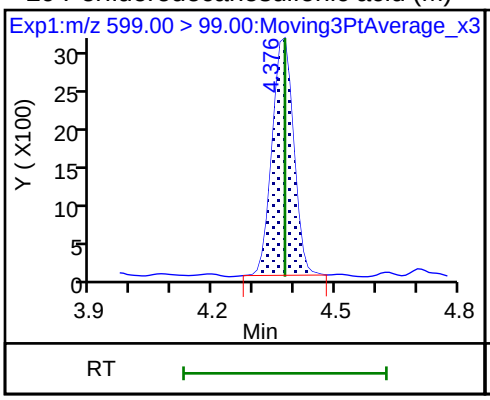
28 N-methylperfluorooctanesulfonami (M)



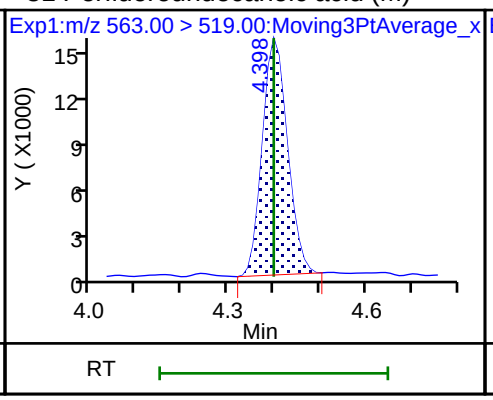
29 Perfluorodecanesulfonic acid



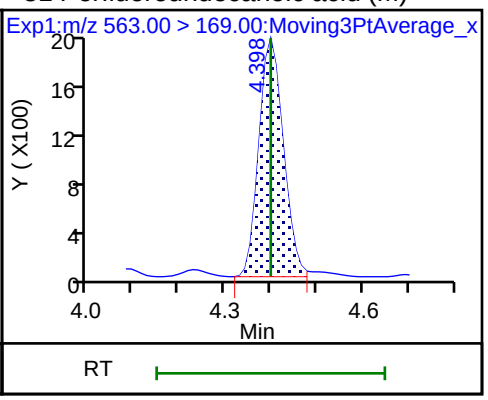
29 Perfluorodecanesulfonic acid (M)



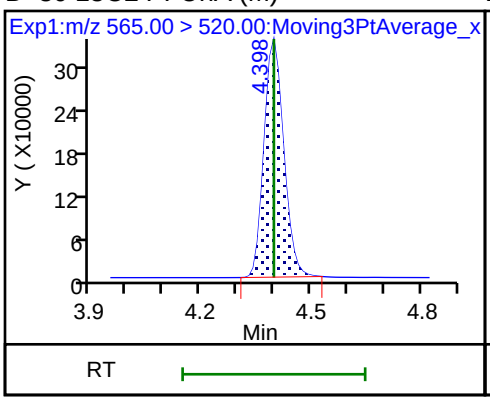
31 Perfluoroundecanoic acid (M)



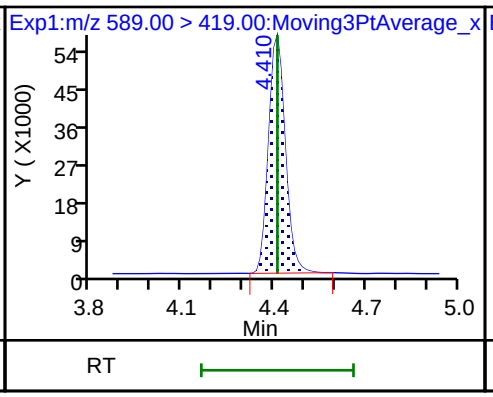
31 Perfluoroundecanoic acid (M)



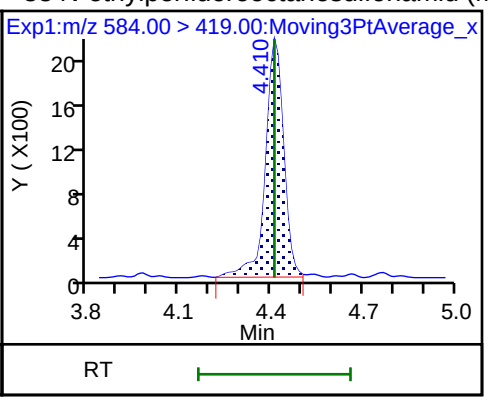
D 30 13C2 PFUnA (M)



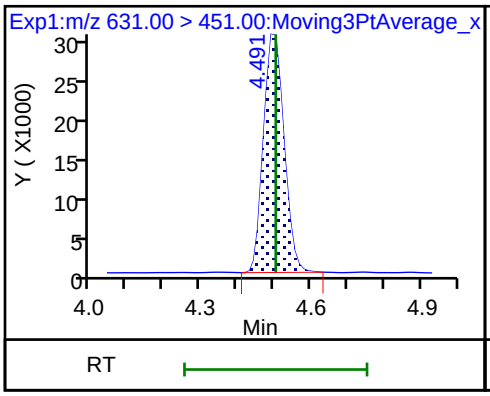
D 32 d5-NEtFOSAA



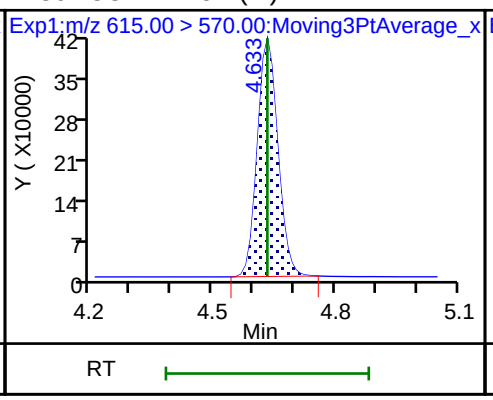
33 N-ethylperfluorooctanesulfonamid (M)



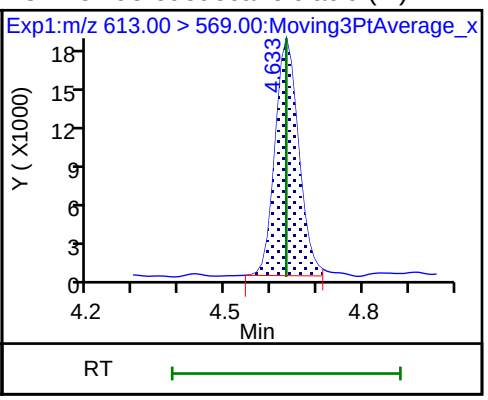
66 11-Chloroeicosafluoro-3-oxaundec



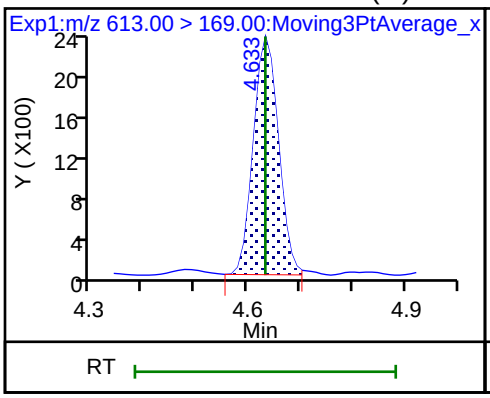
D 36 13C2 PFDoA (M)



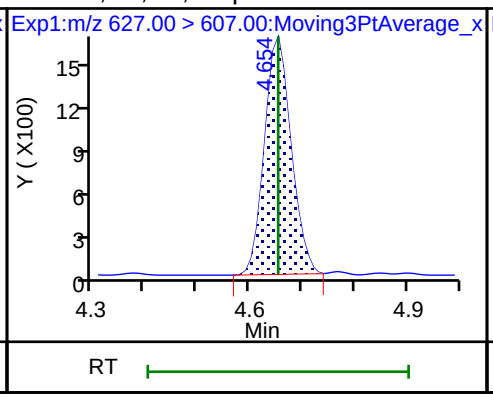
37 Perfluorododecanoic acid (M)



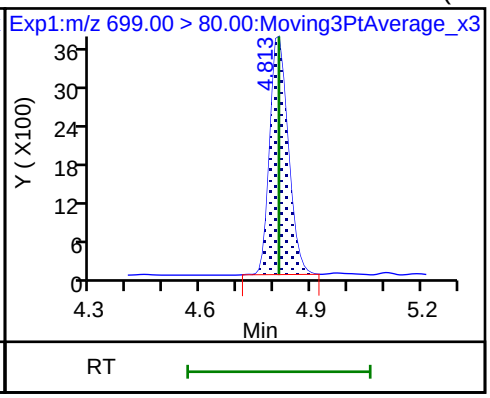
37 Perfluorododecanoic acid (M)



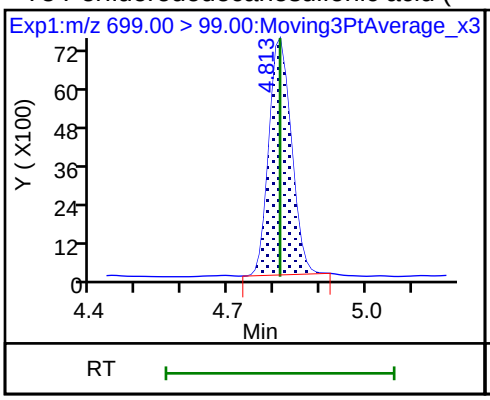
74 1H,1H,2H,2H-perfluorododecanesul



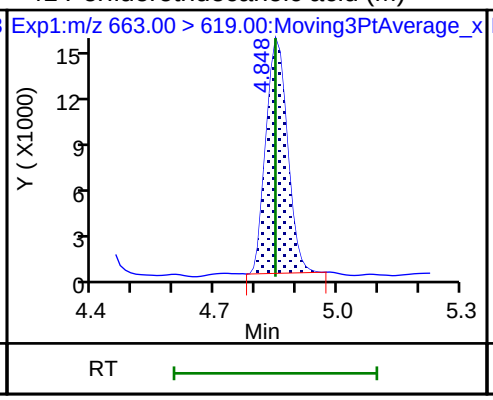
75 Perfluorododecanesulfonic acid (



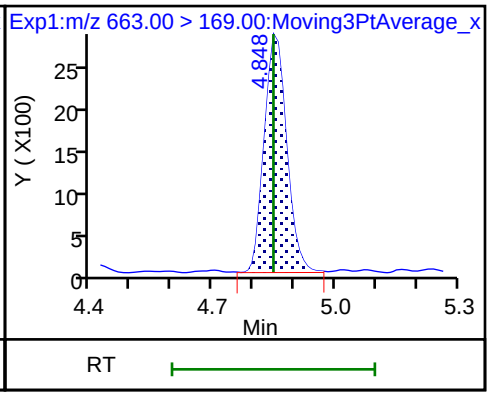
75 Perfluorododecanesulfonic acid (



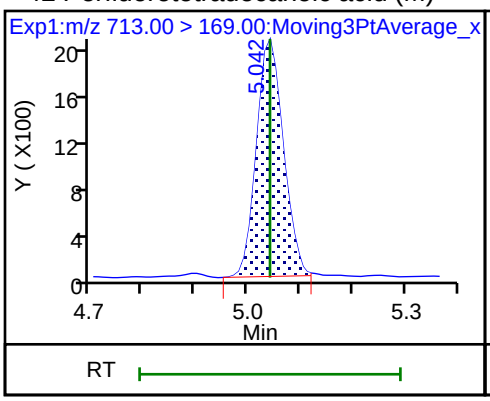
41 Perfluorotridecanoic acid (M)



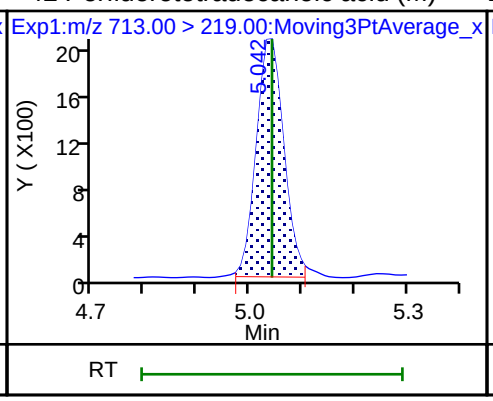
41 Perfluorotridecanoic acid



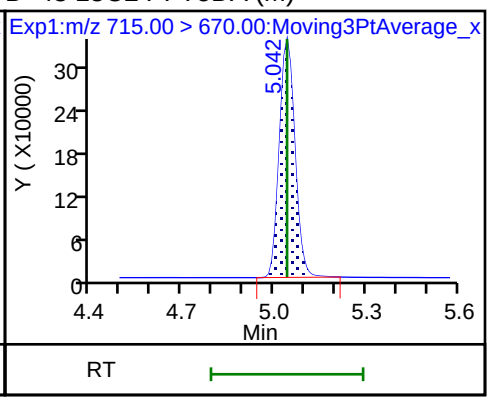
42 Perfluorotetradecanoic acid (M)



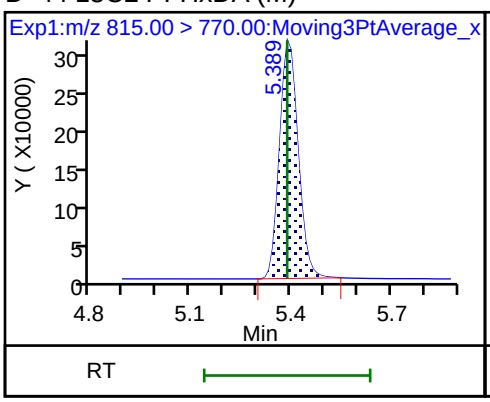
42 Perfluorotetradecanoic acid (M)



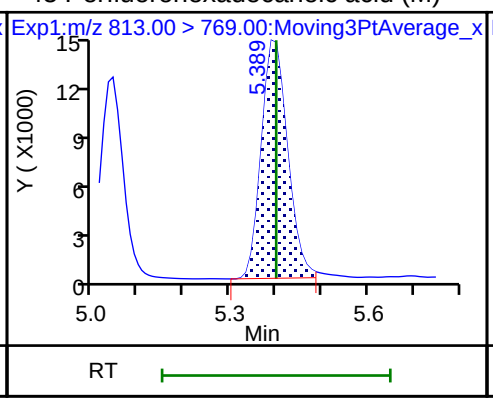
D 43 13C2 PFTeDA (M)



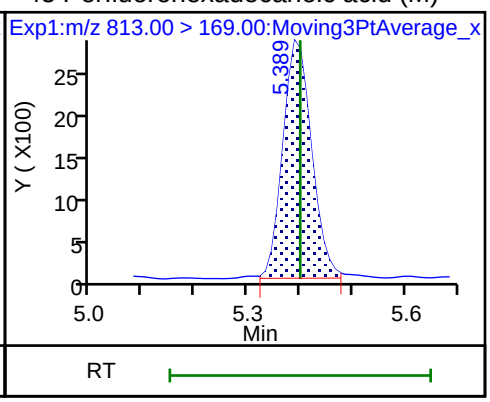
D 44 13C2 PFHxDA (M)



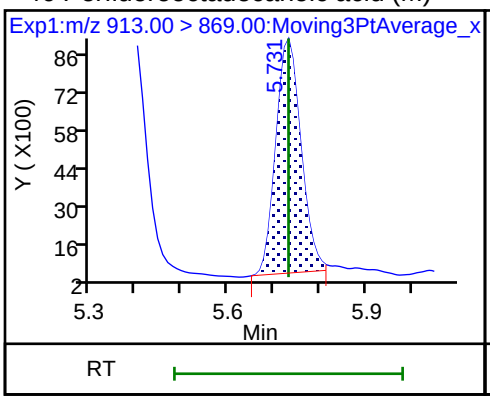
45 Perfluorohexadecanoic acid (M)



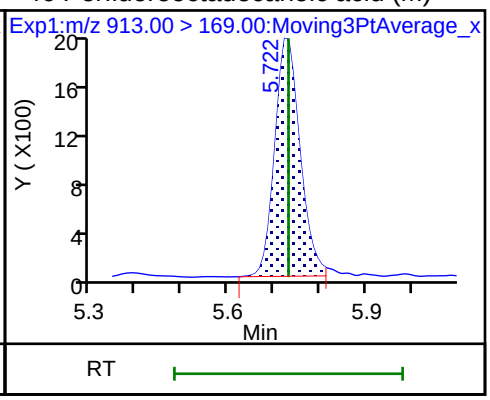
45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M)



46 Perfluorooctadecanoic acid (M)



Manual Integration/User Assign Peak Report

Eurofins Burlington

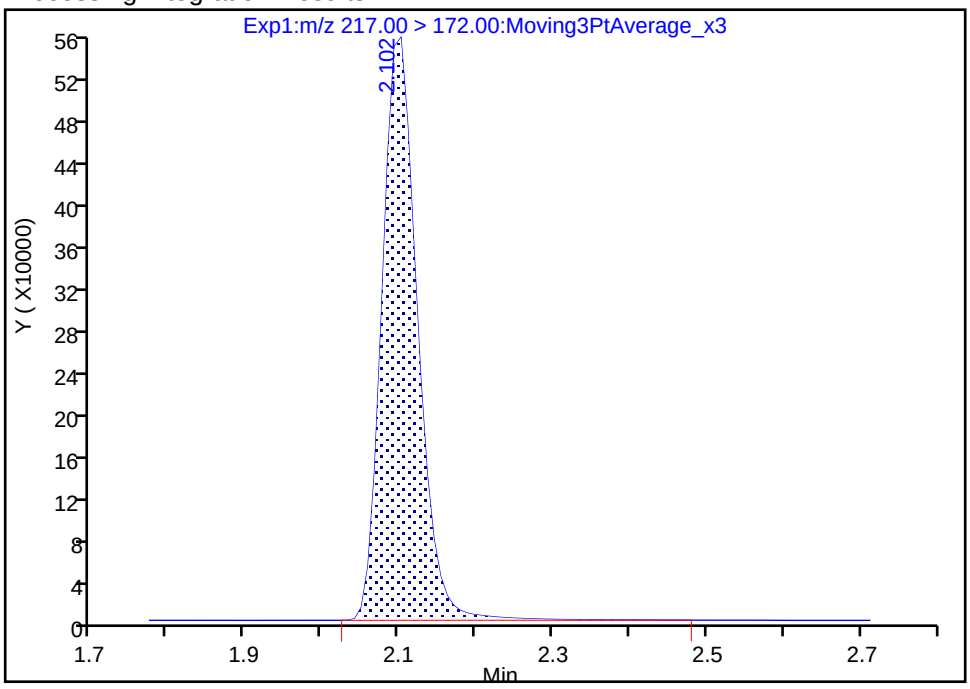
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

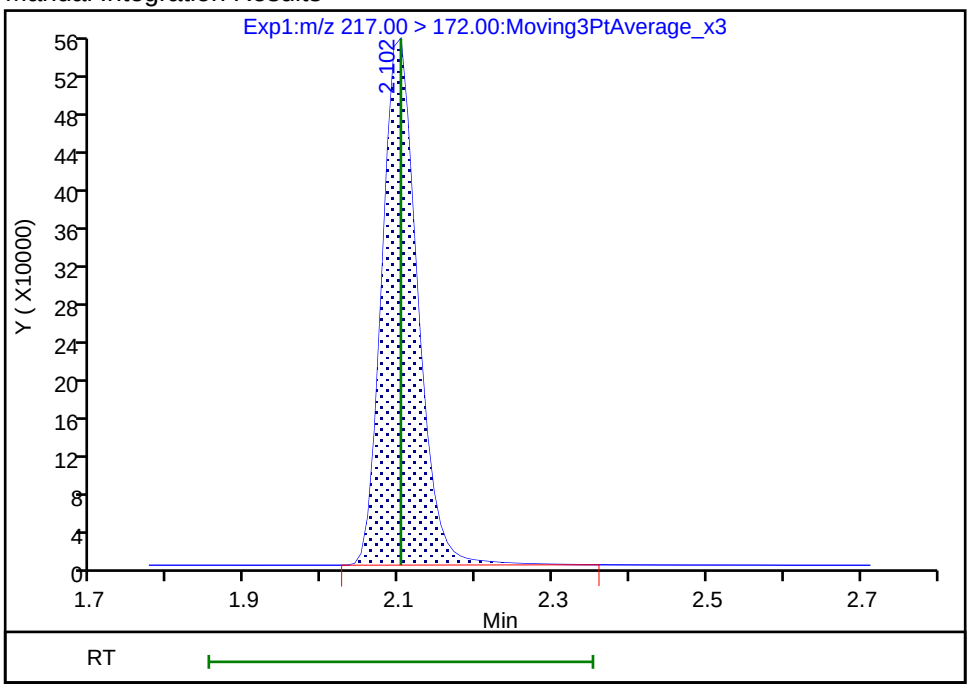
Processing Integration Results

RT: 2.10
Area: 1769246
Amount: 1.216459
Amount Units: ng/ml



Manual Integration Results

RT: 2.10
Area: 1764914
Amount: 1.236146
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:26:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

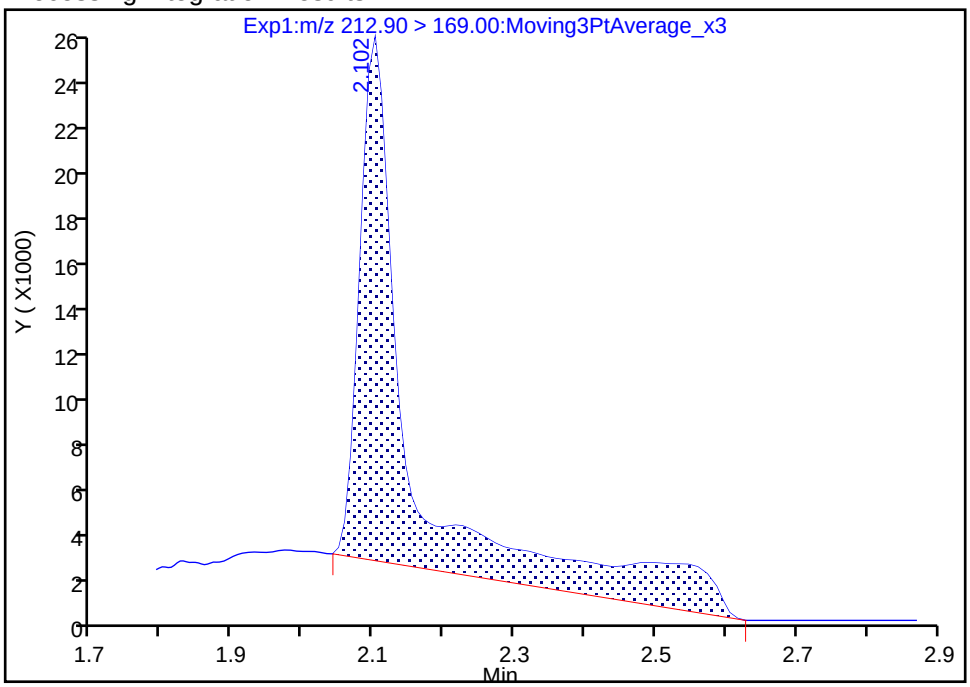
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

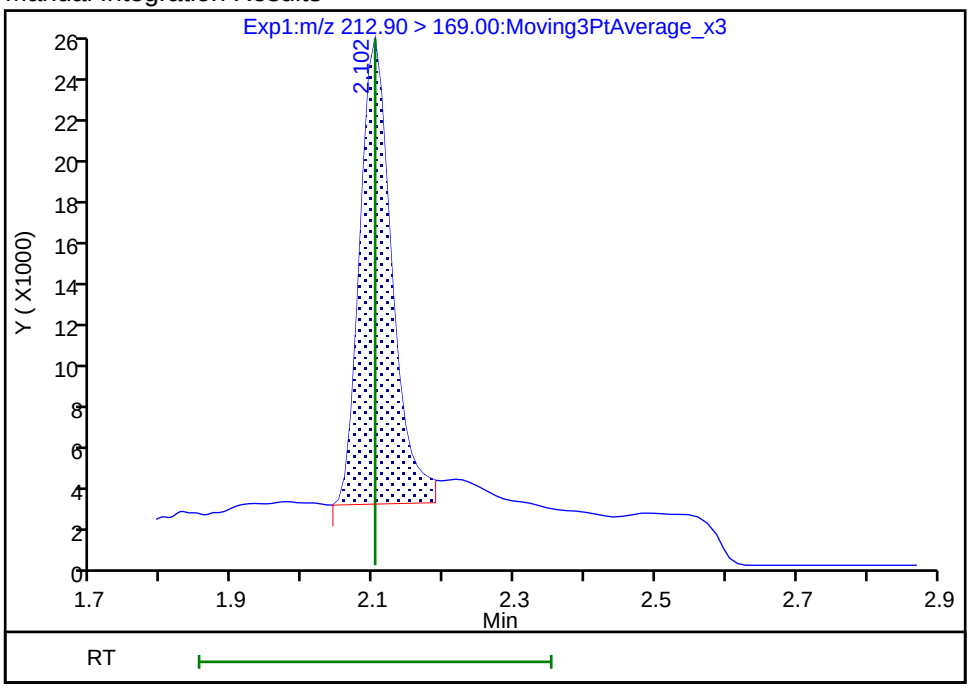
Processing Integration Results

RT: 2.10
Area: 117458
Amount: 0.053038
Amount Units: ng/ml



Manual Integration Results

RT: 2.10
Area: 72051
Amount: 0.054075
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:27:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

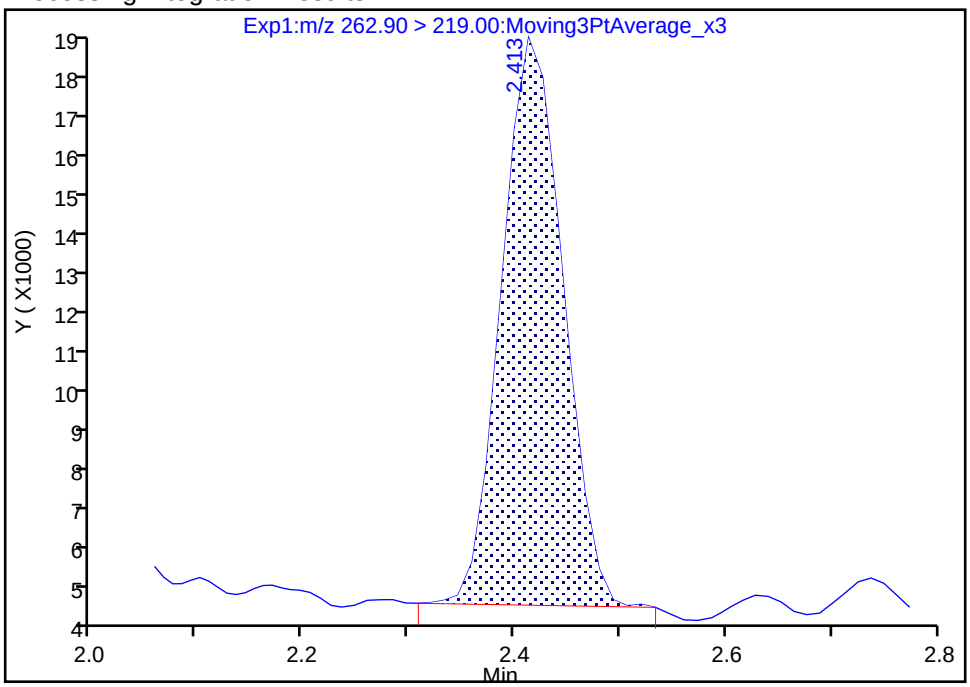
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

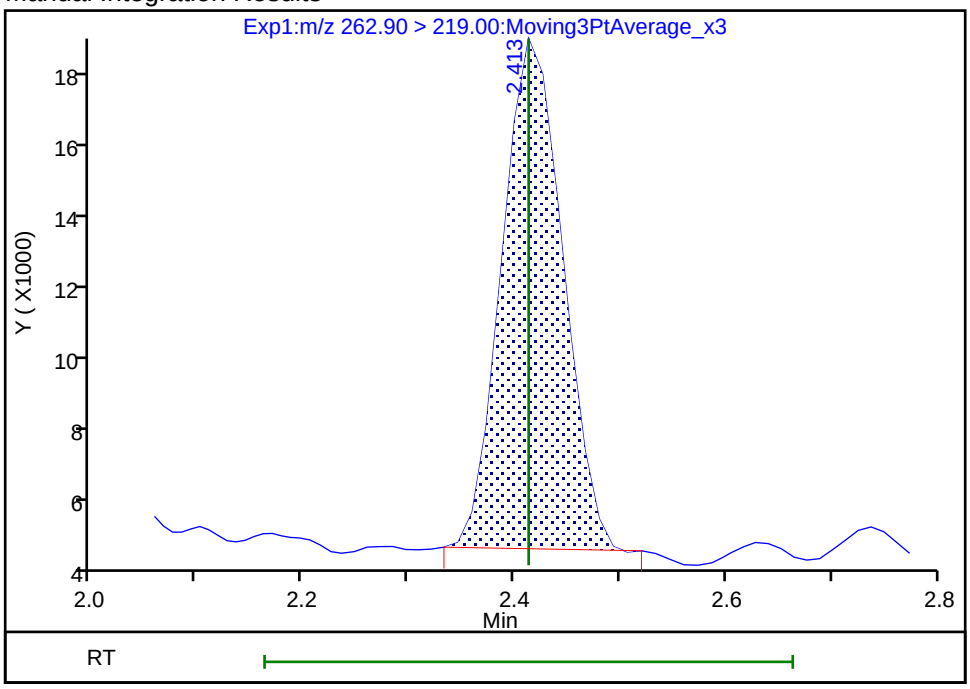
Processing Integration Results

RT: 2.41
Area: 55428
Amount: 0.046535
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 54526
Amount: 0.048010
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:27:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

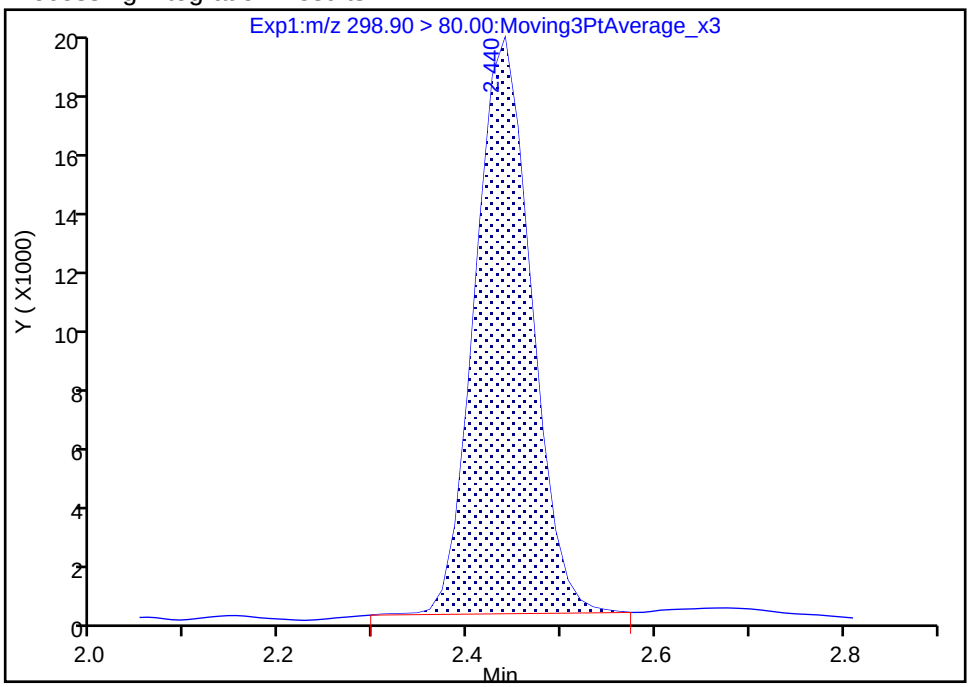
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

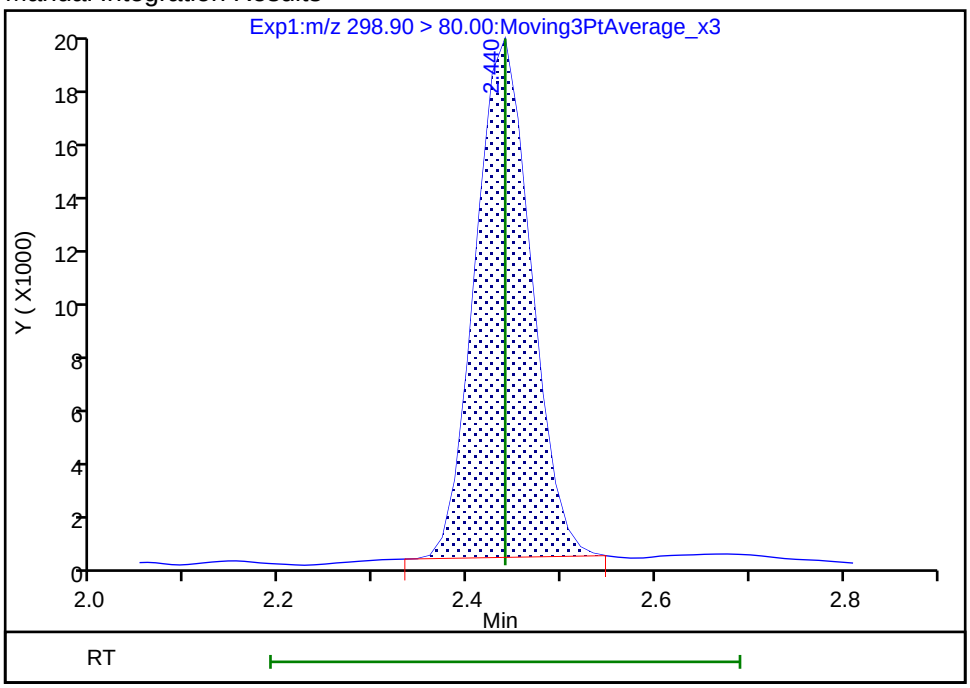
Processing Integration Results

RT: 2.44
Area: 81684
Amount: 0.045155
Amount Units: ng/ml



Manual Integration Results

RT: 2.44
Area: 80644
Amount: 0.047006
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:27:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

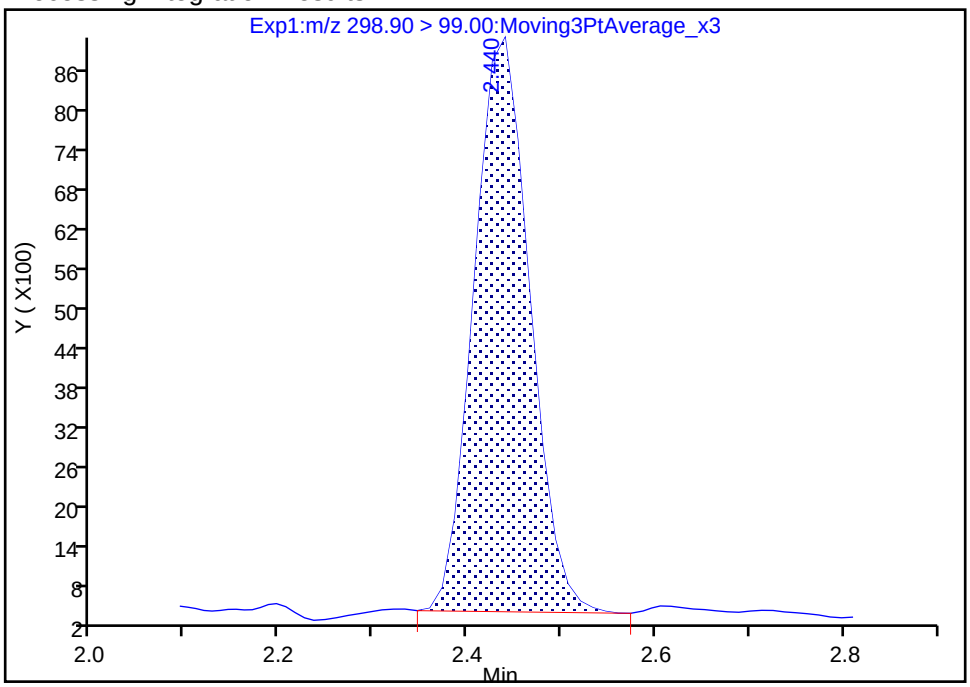
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

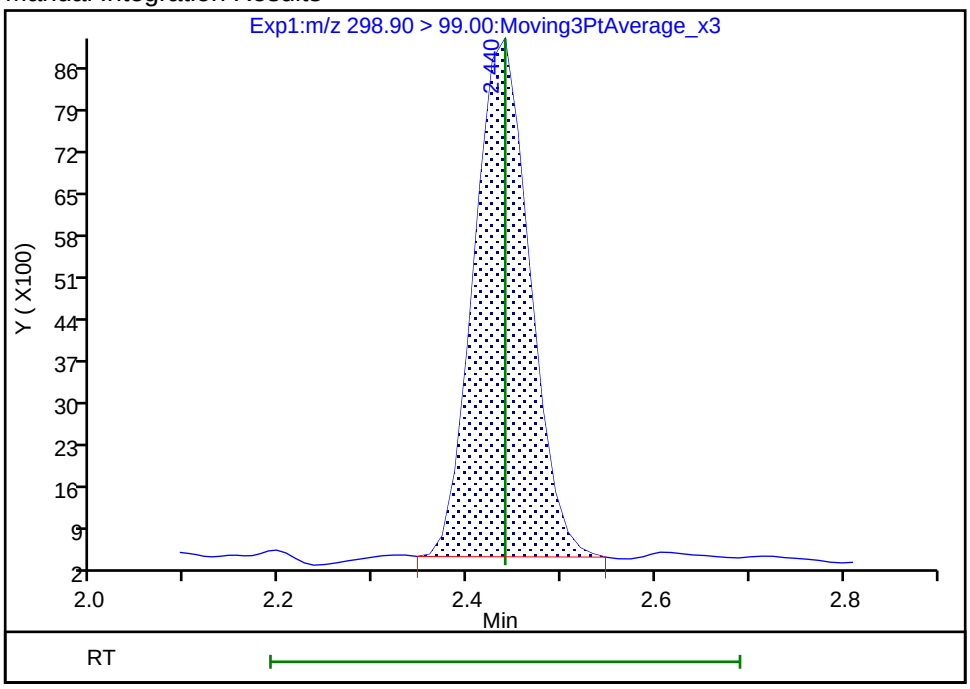
Processing Integration Results

RT: 2.44
Area: 35694
Amount: 0.045155
Amount Units: ng/ml



Manual Integration Results

RT: 2.44
Area: 35538
Amount: 0.047006
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:27:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

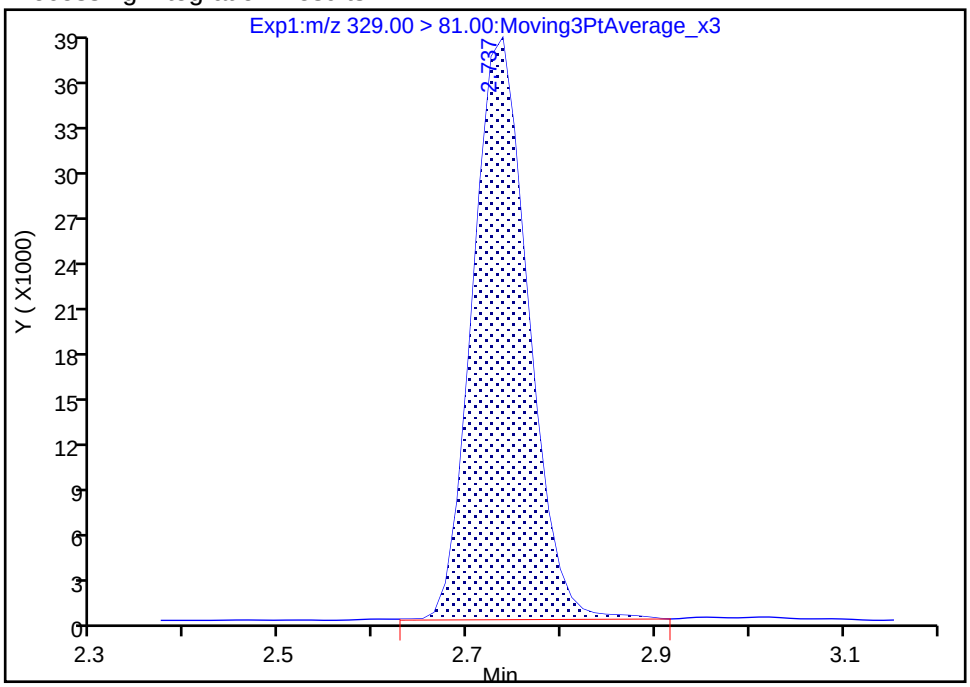
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

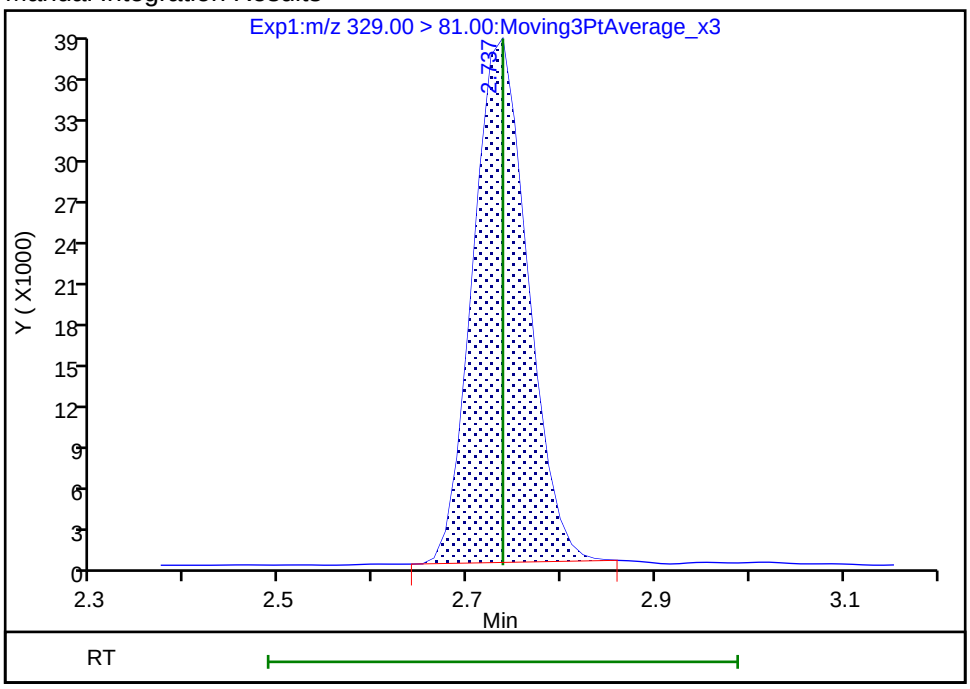
Processing Integration Results

RT: 2.74
Area: 155606
Amount: 1.125664
Amount Units: ng/ml



Manual Integration Results

RT: 2.74
Area: 152810
Amount: 1.167456
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:27:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

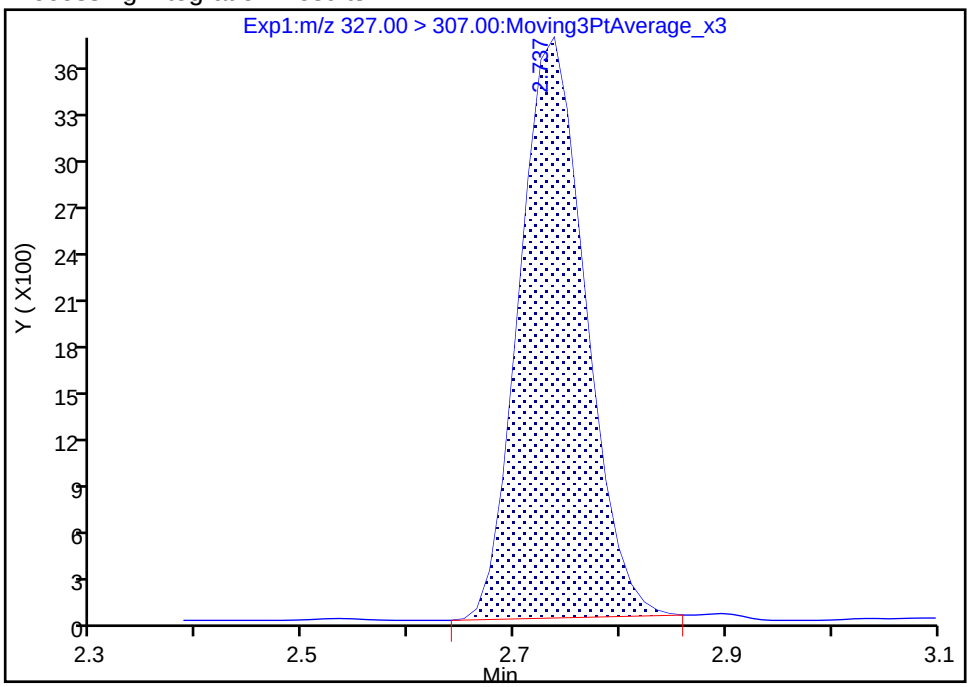
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

61 1H,1H,2H,2H-perfluorohexanesulfo, CAS: 757124-72-4

Signal: 1

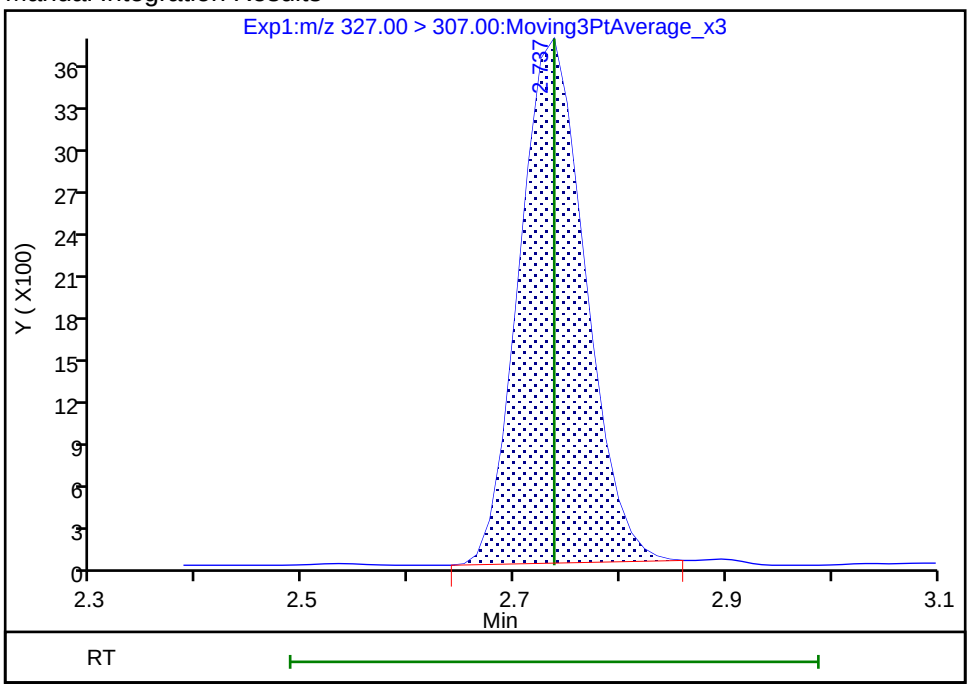
Processing Integration Results

RT: 2.74
Area: 16130
Amount: 0.044955
Amount Units: ng/ml



Manual Integration Results

RT: 2.74
Area: 16130
Amount: 0.049086
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:27:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

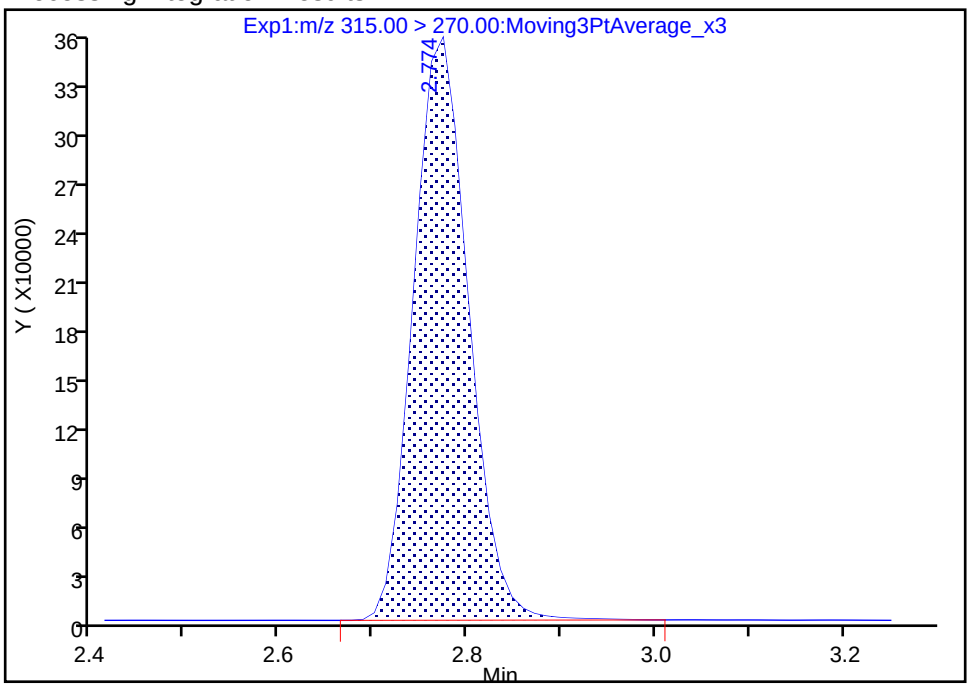
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

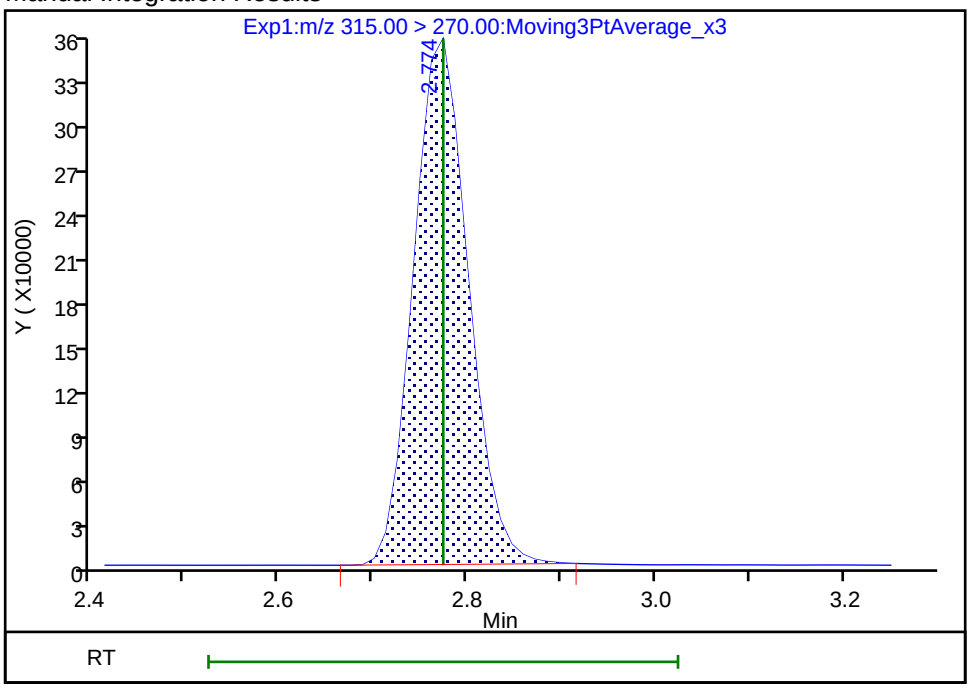
Processing Integration Results

RT: 2.77
Area: 1427122
Amount: 1.239383
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 1417729
Amount: 1.270340
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:27:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

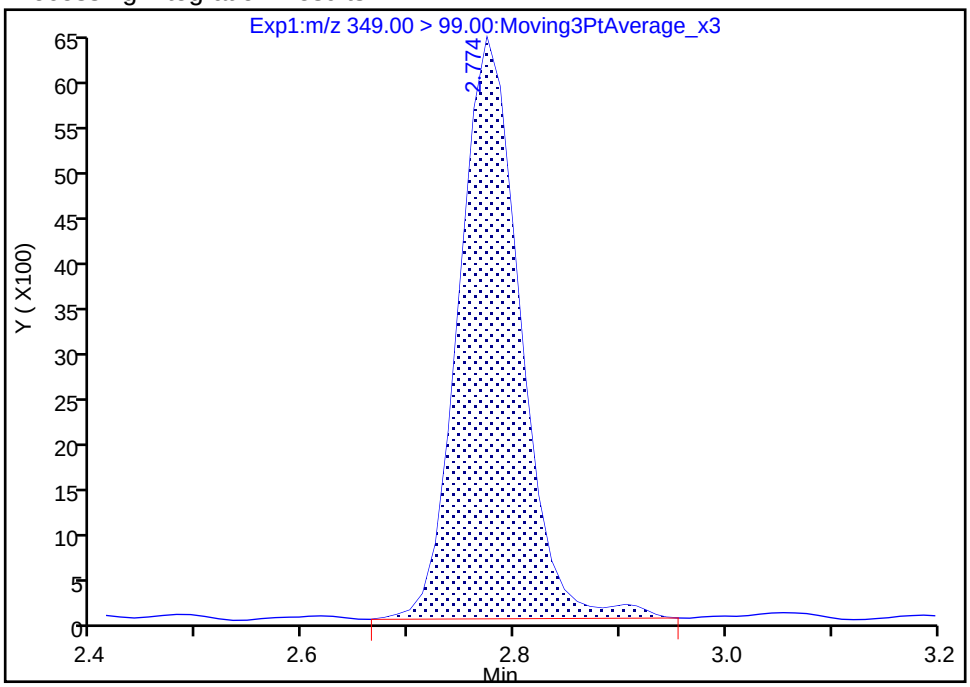
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 2

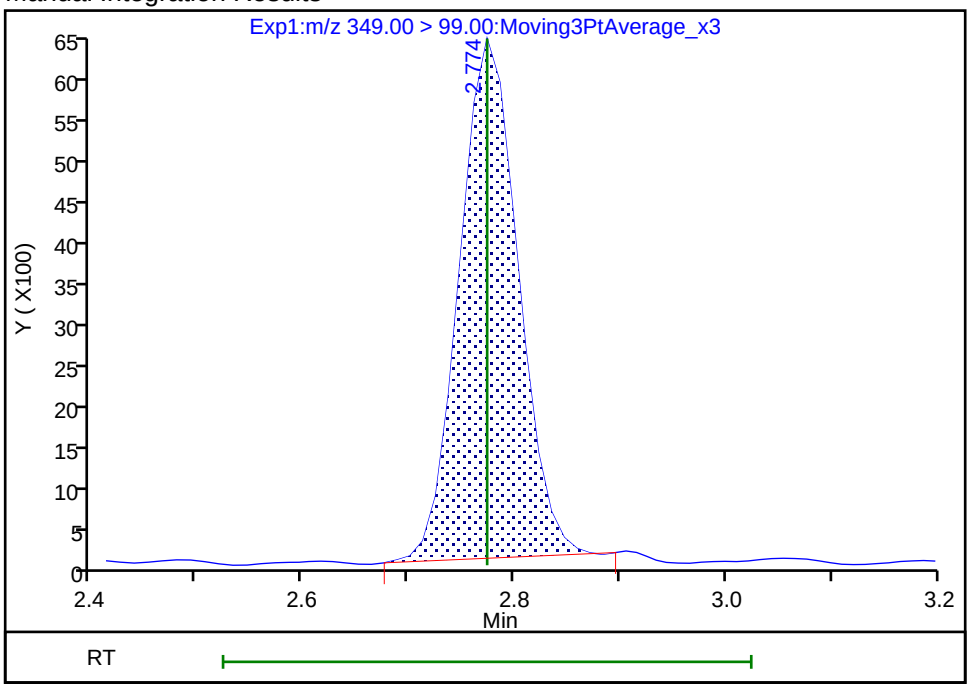
Processing Integration Results

RT: 2.77
Area: 25449
Amount: 0.046274
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 24198
Amount: 0.049126
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:27:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

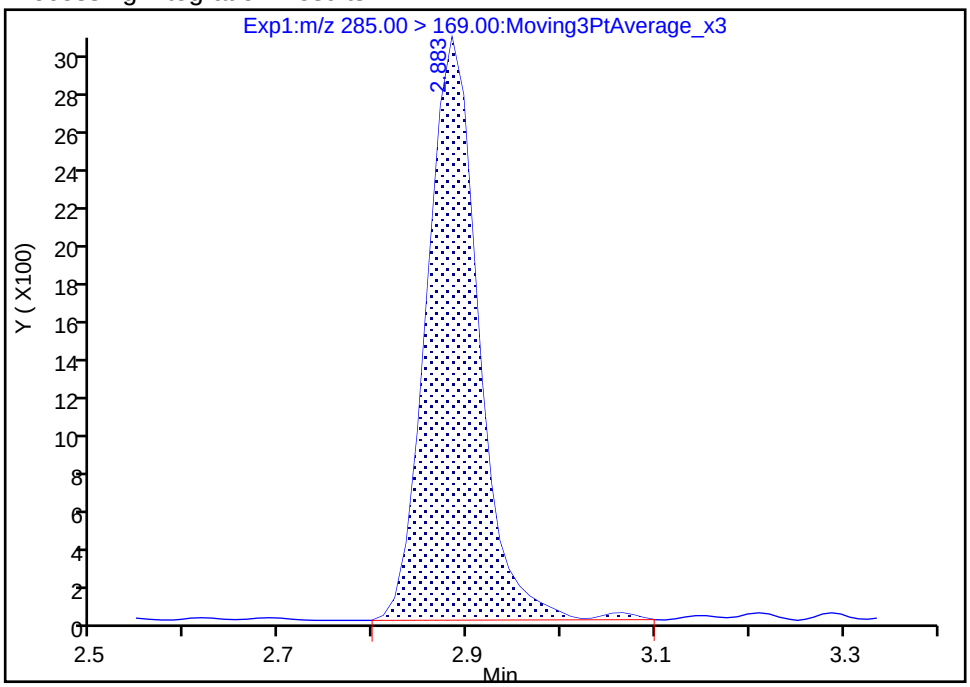
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

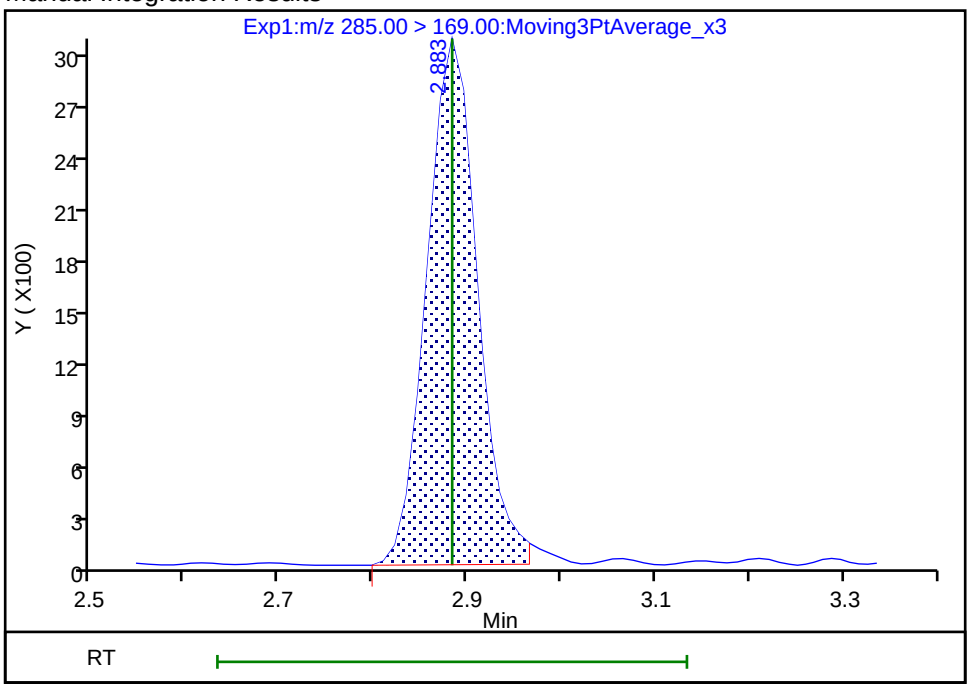
Processing Integration Results

RT: 2.88
Area: 11801
Amount: 0.052326
Amount Units: ng/ml



Manual Integration Results

RT: 2.88
Area: 11506
Amount: 0.053619
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:27:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

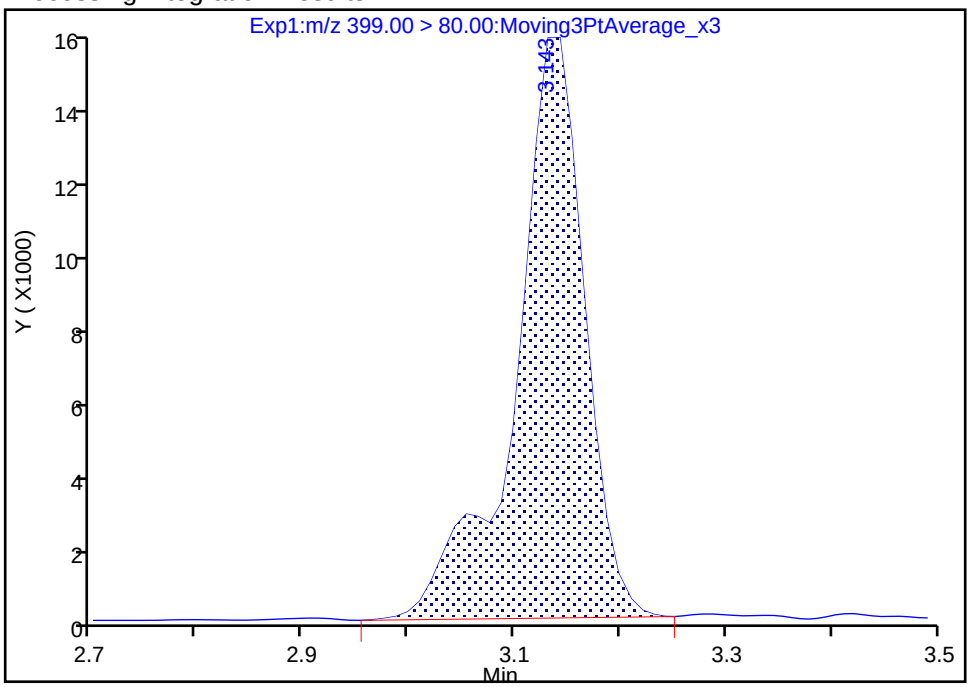
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

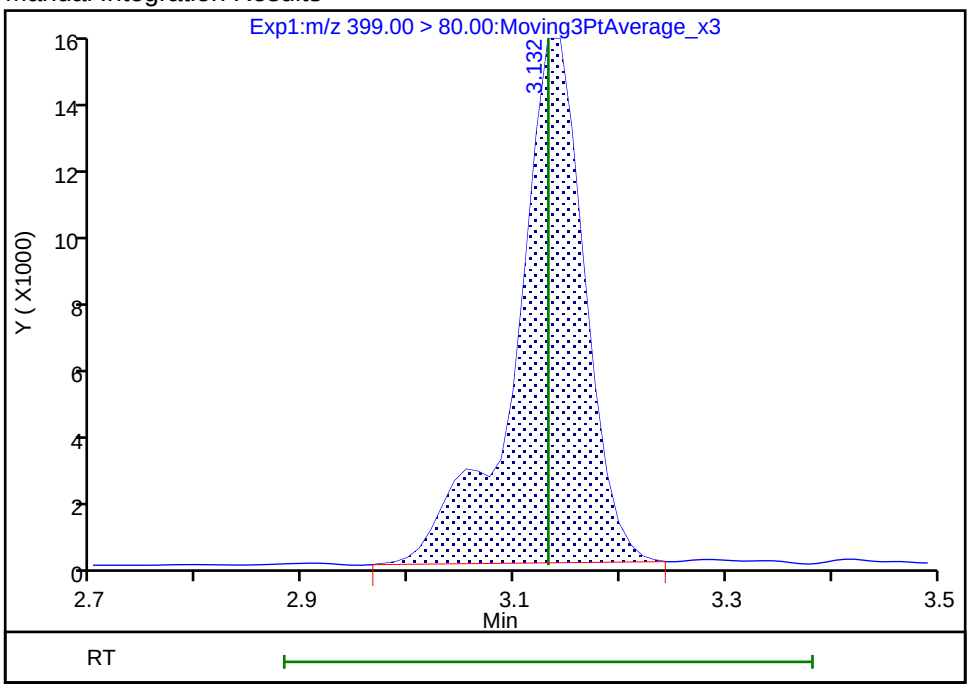
Processing Integration Results

RT: 3.14
Area: 68980
Amount: 0.048092
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 68807
Amount: 0.050465
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:28:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d

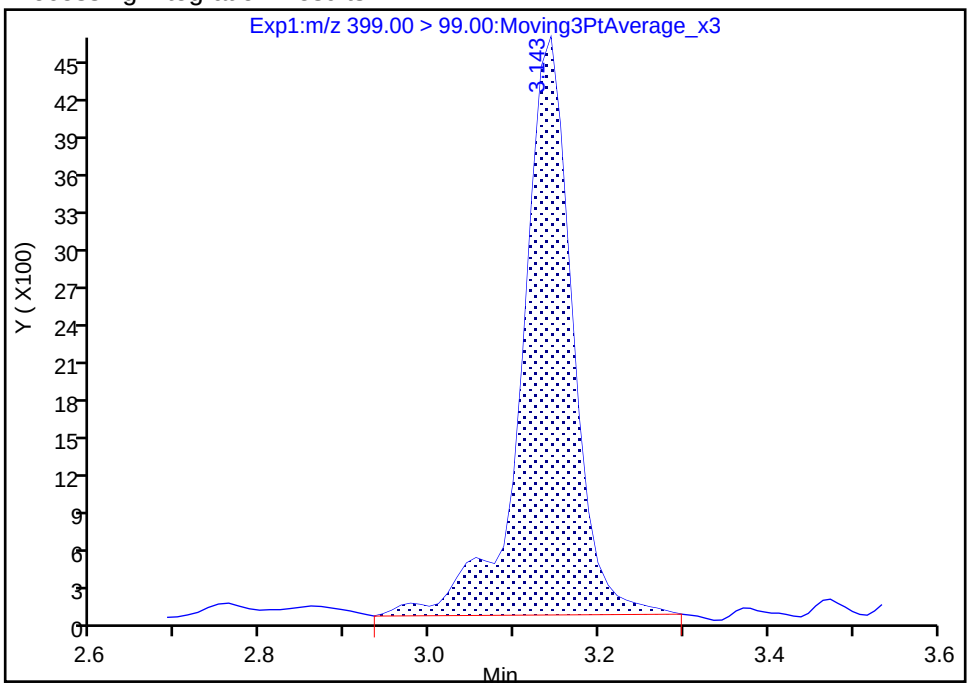
Injection Date:	05-May-2022 15:13:34	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

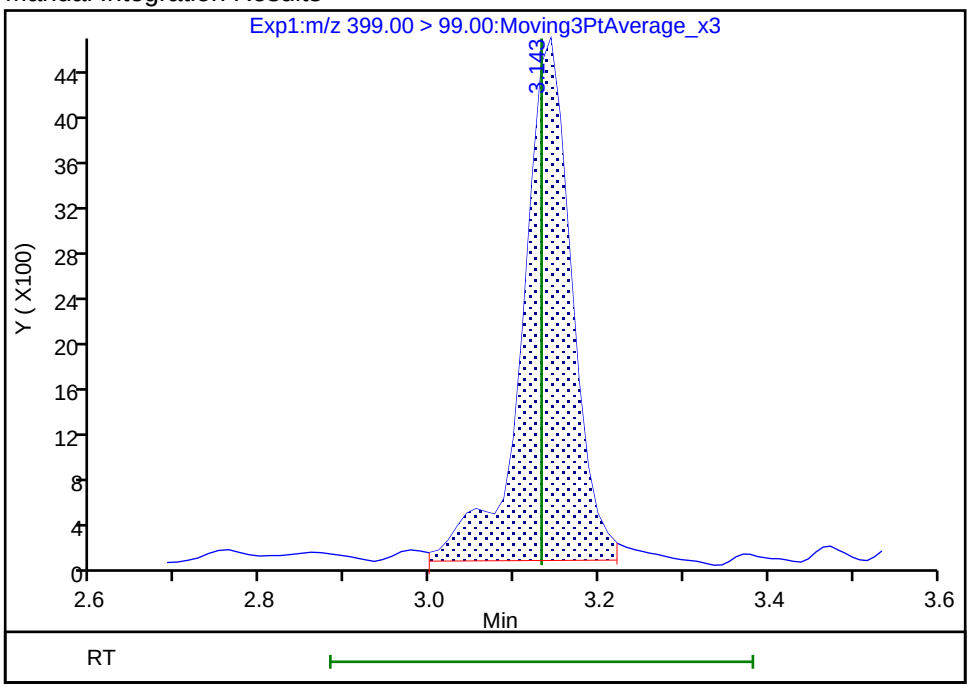
Processing Integration Results

RT: 3.14
Area: 18840
Amount: 0.048092
Amount Units: ng/ml



Manual Integration Results

RT: 3.14
Area: 18325
Amount: 0.050465
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:28:22

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

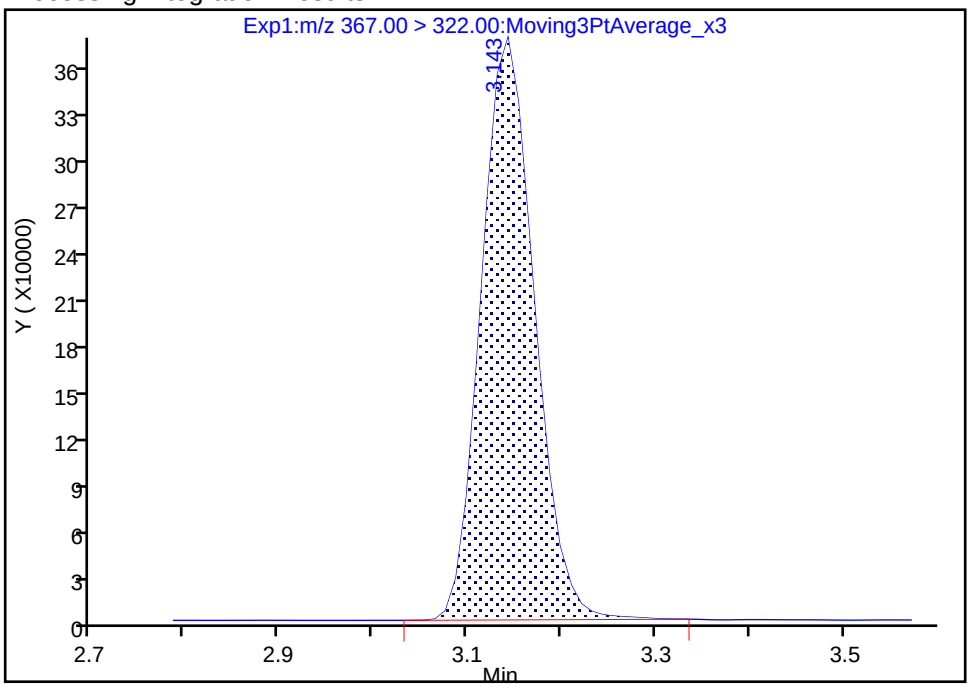
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

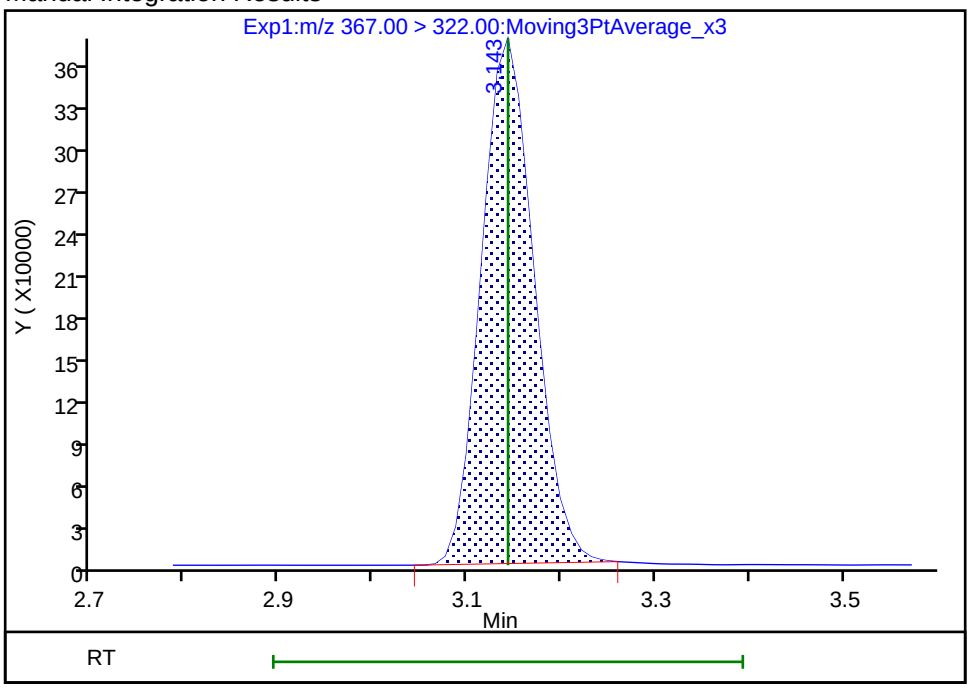
Processing Integration Results

RT: 3.14
Area: 1489490
Amount: 1.252108
Amount Units: ng/ml



Manual Integration Results

RT: 3.14
Area: 1473031
Amount: 1.223319
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:28:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

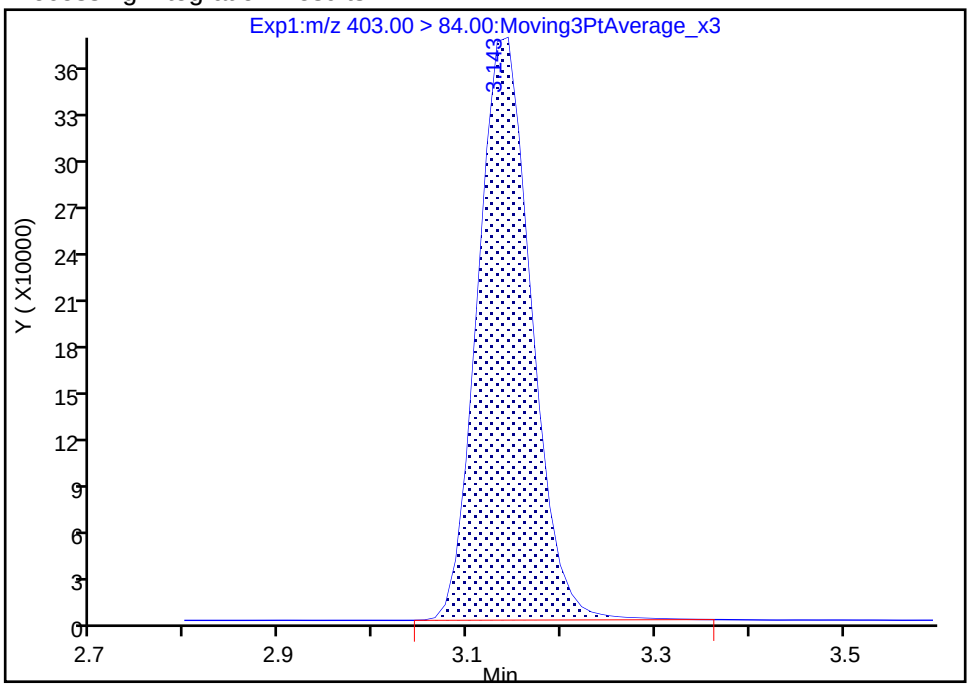
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

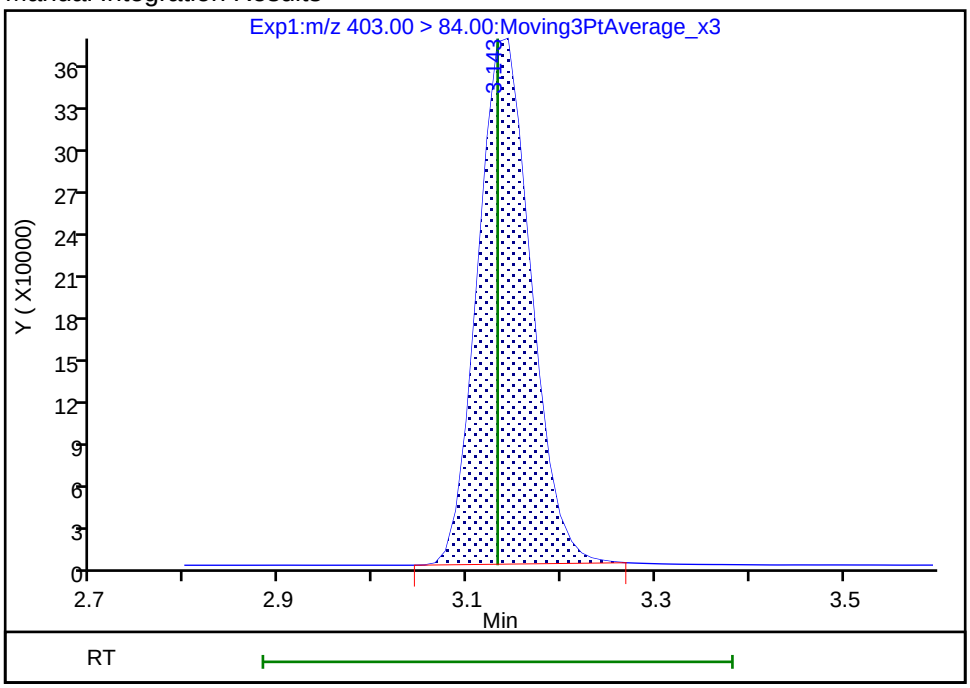
Processing Integration Results

RT: 3.14
Area: 1471279
Amount: 1.194805
Amount Units: ng/ml



Manual Integration Results

RT: 3.14
Area: 1458715
Amount: 1.178499
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:28:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

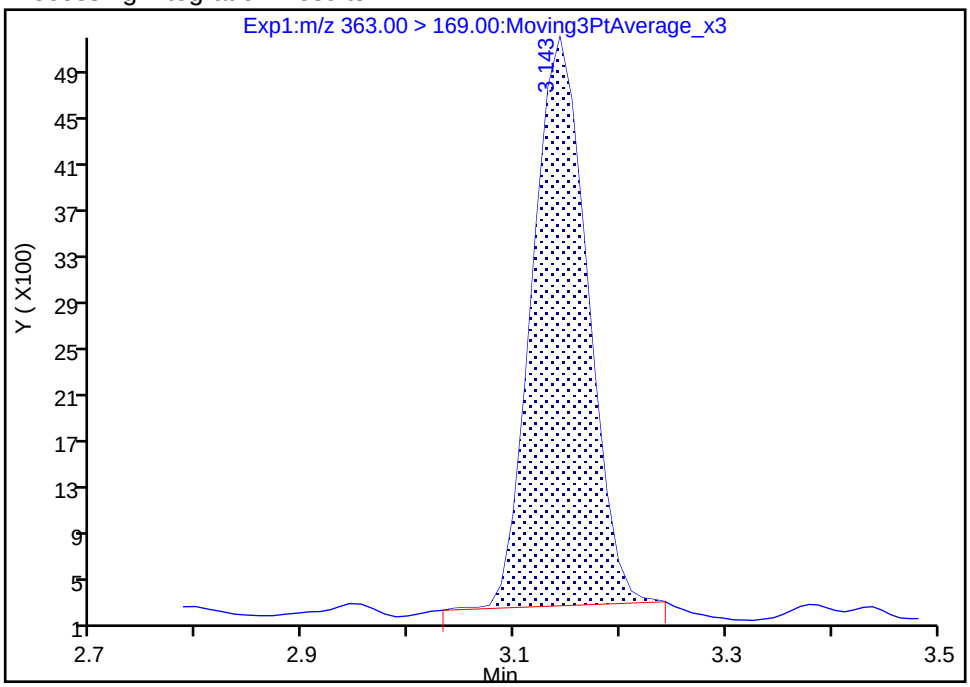
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

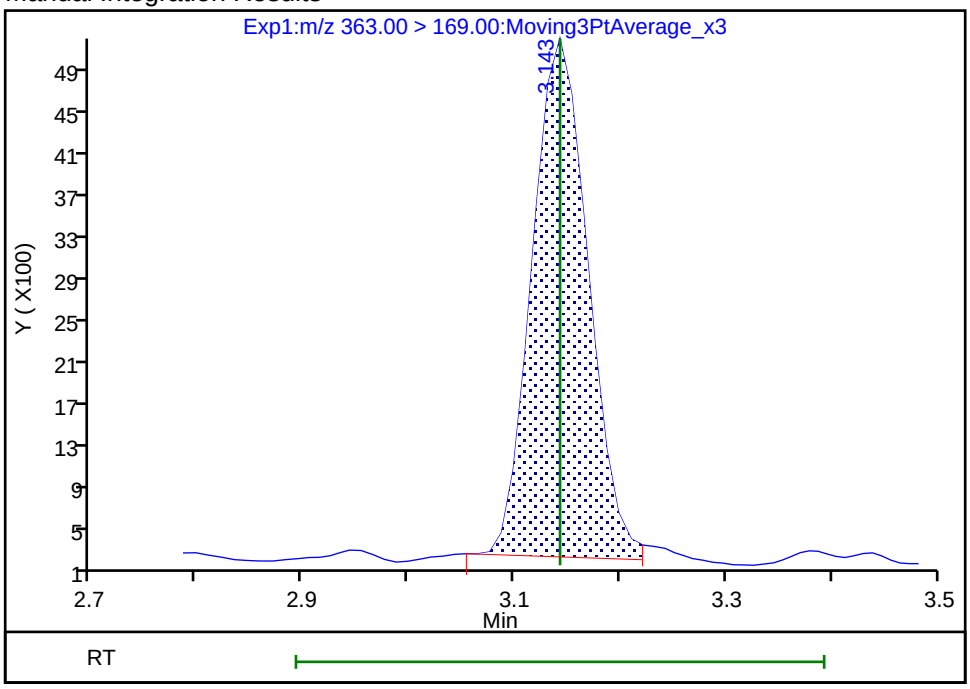
Processing Integration Results

RT: 3.14
Area: 17606
Amount: 0.047377
Amount Units: ng/ml



Manual Integration Results

RT: 3.14
Area: 17986
Amount: 0.052310
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:28:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

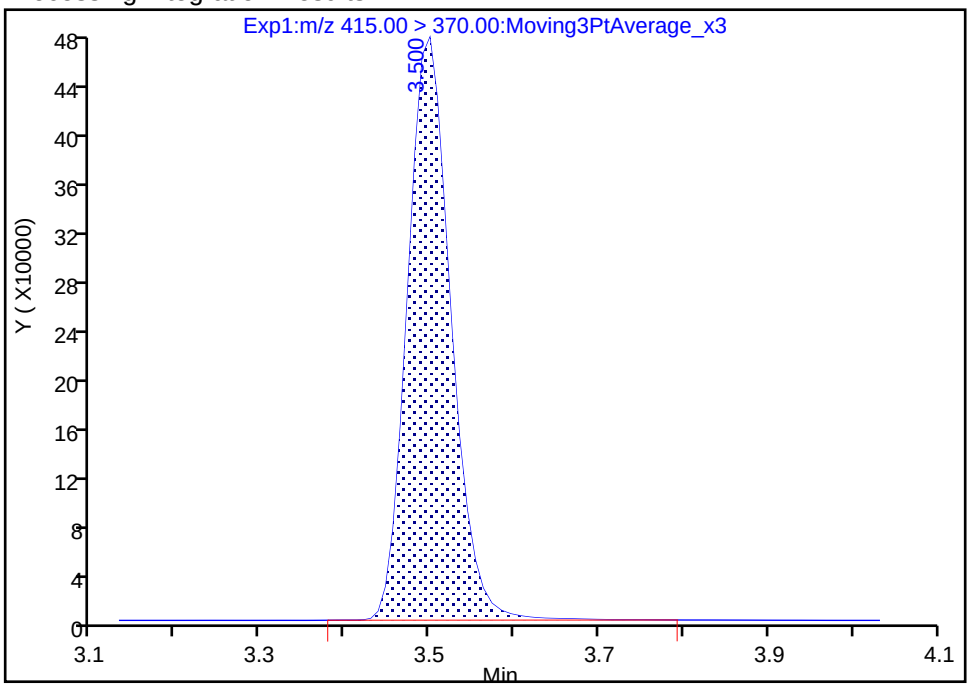
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

* 62 13C2 PFOA, CAS: STL00623

Signal: 1

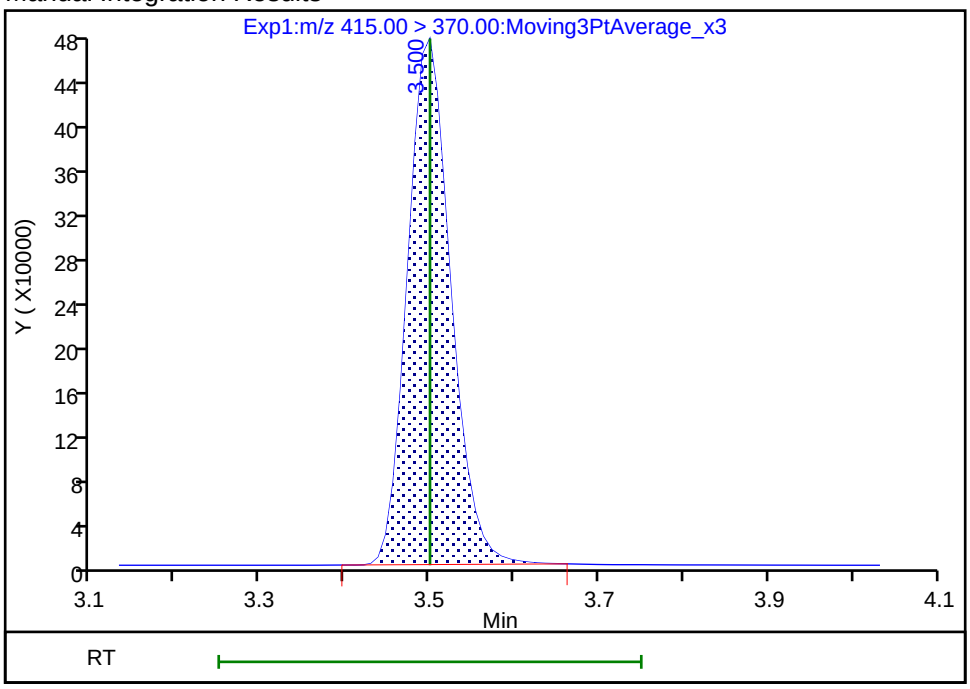
Processing Integration Results

RT: 3.50
Area: 1692375
Amount: 1.250000
Amount Units: ng/ml



Manual Integration Results

RT: 3.50
Area: 1681193
Amount: 1.250000
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:29:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

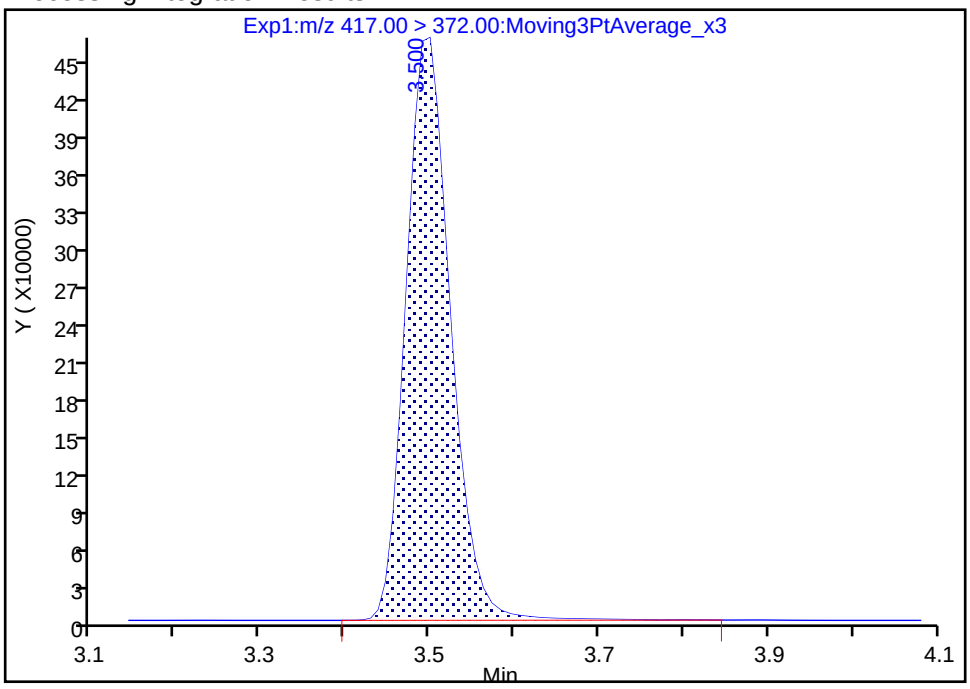
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

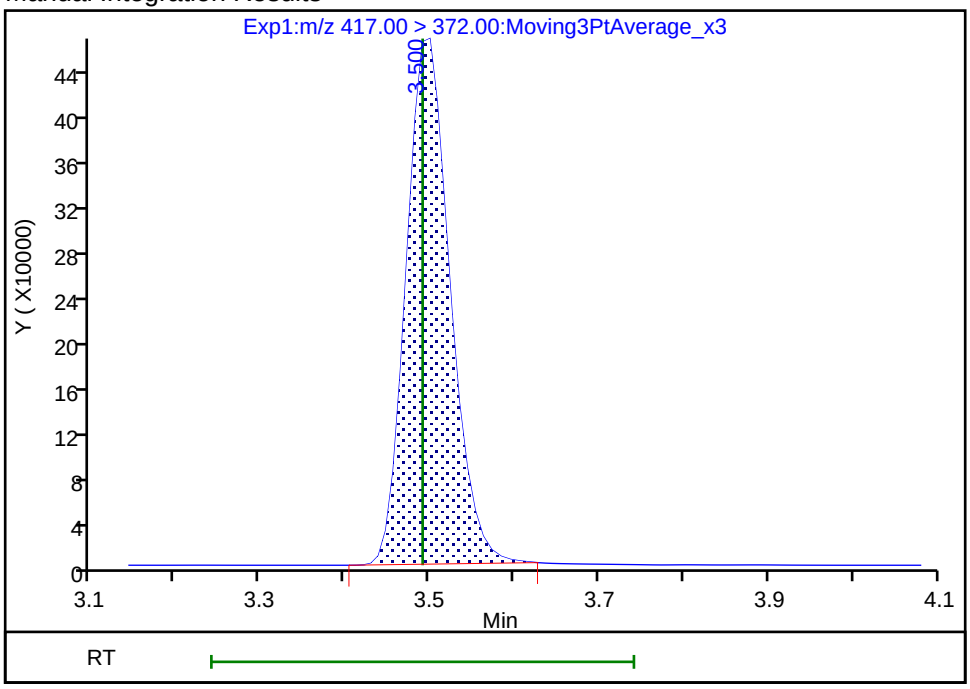
Processing Integration Results

RT: 3.50
Area: 1688244
Amount: 1.311759
Amount Units: ng/ml



Manual Integration Results

RT: 3.50
Area: 1665838
Amount: 1.315629
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:28:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

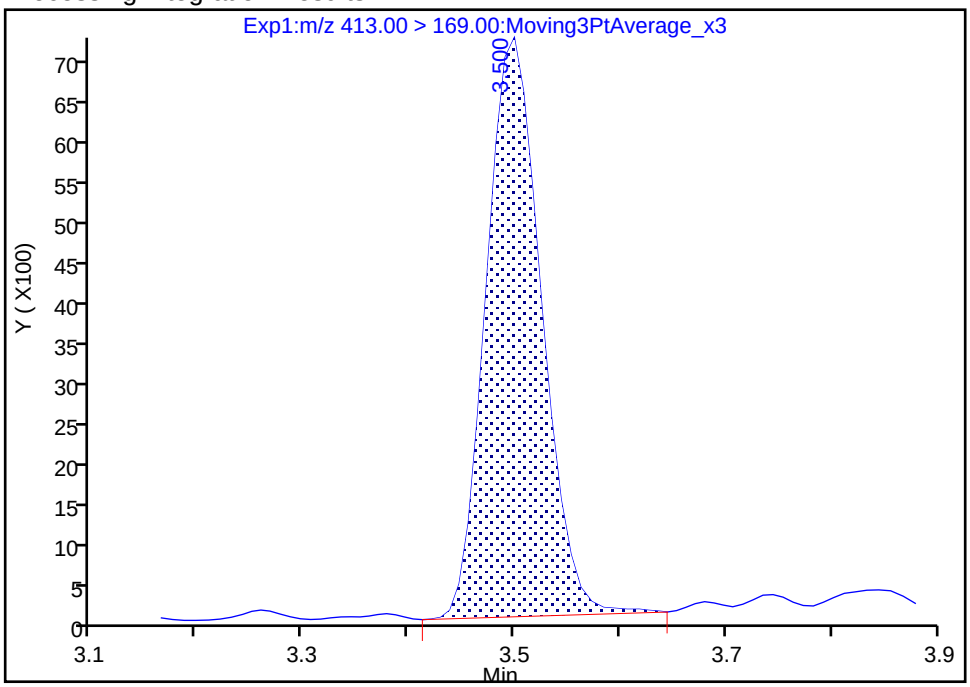
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

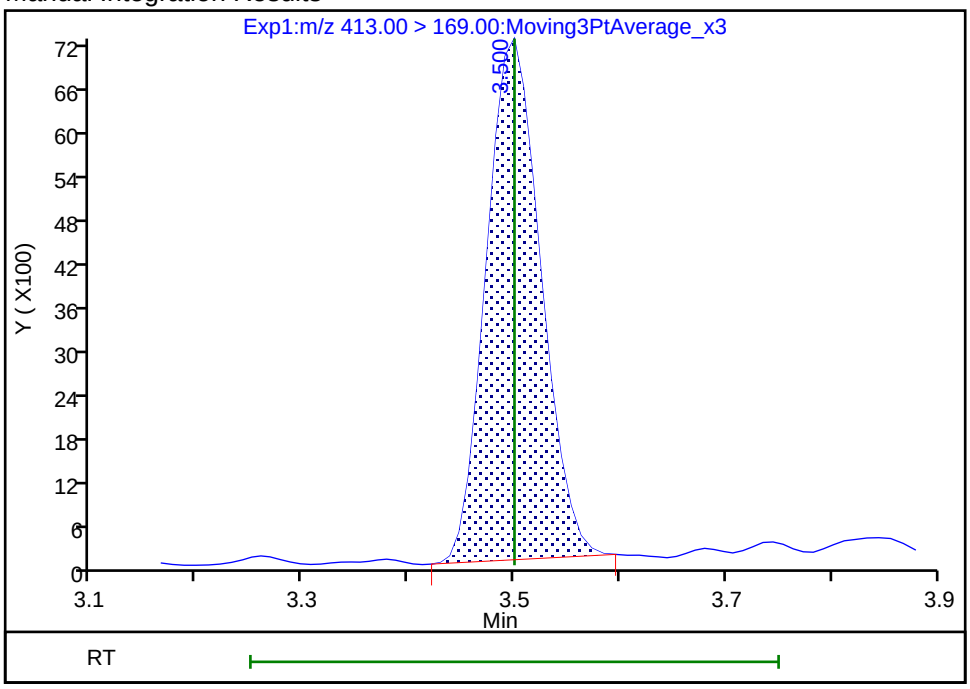
Processing Integration Results

RT: 3.50
Area: 26289
Amount: 0.049315
Amount Units: ng/ml



Manual Integration Results

RT: 3.50
Area: 25818
Amount: 0.051130
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:29:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

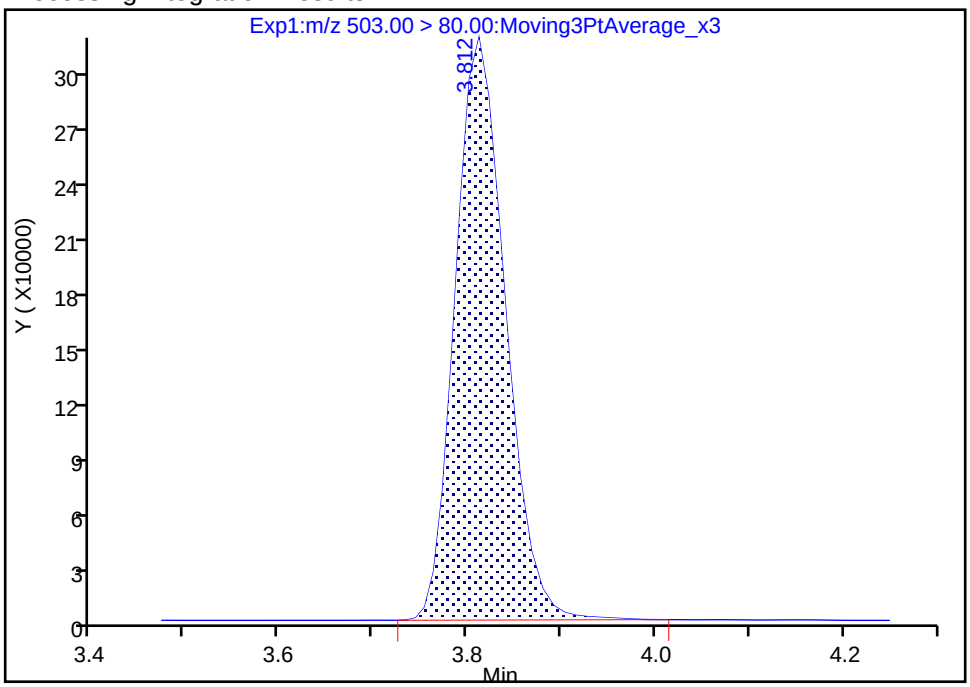
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

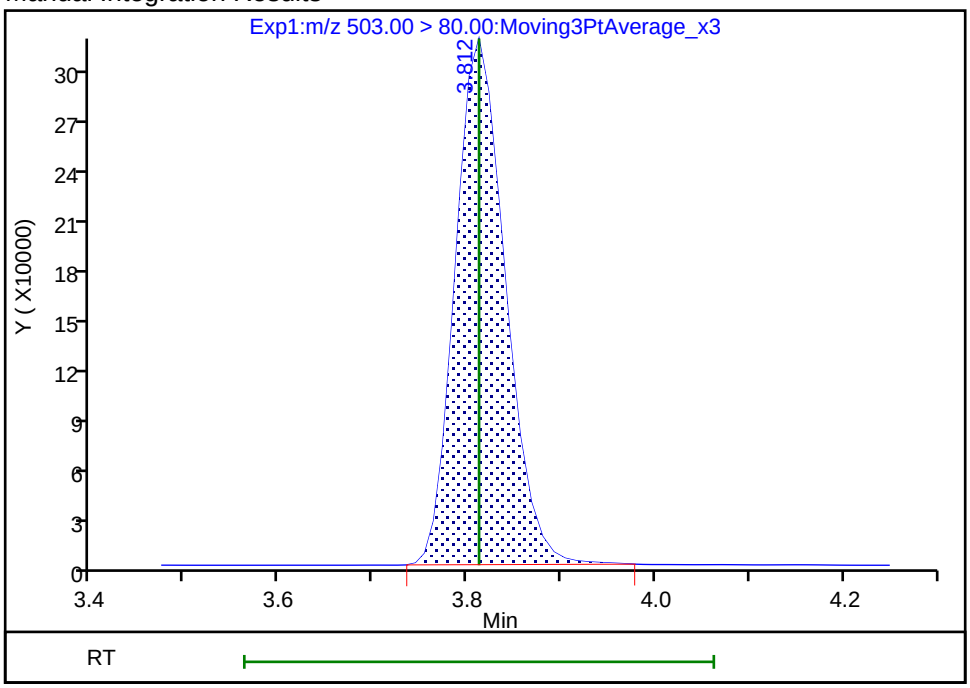
Processing Integration Results

RT: 3.81
Area: 1165812
Amount: 1.238640
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 1162494
Amount: 1.195506
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:29:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

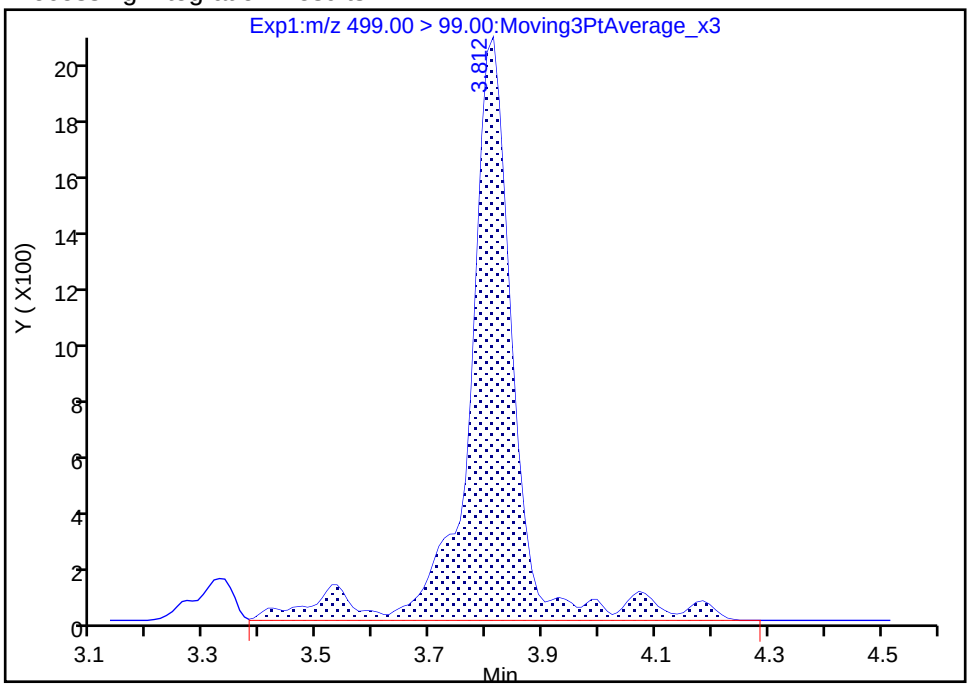
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

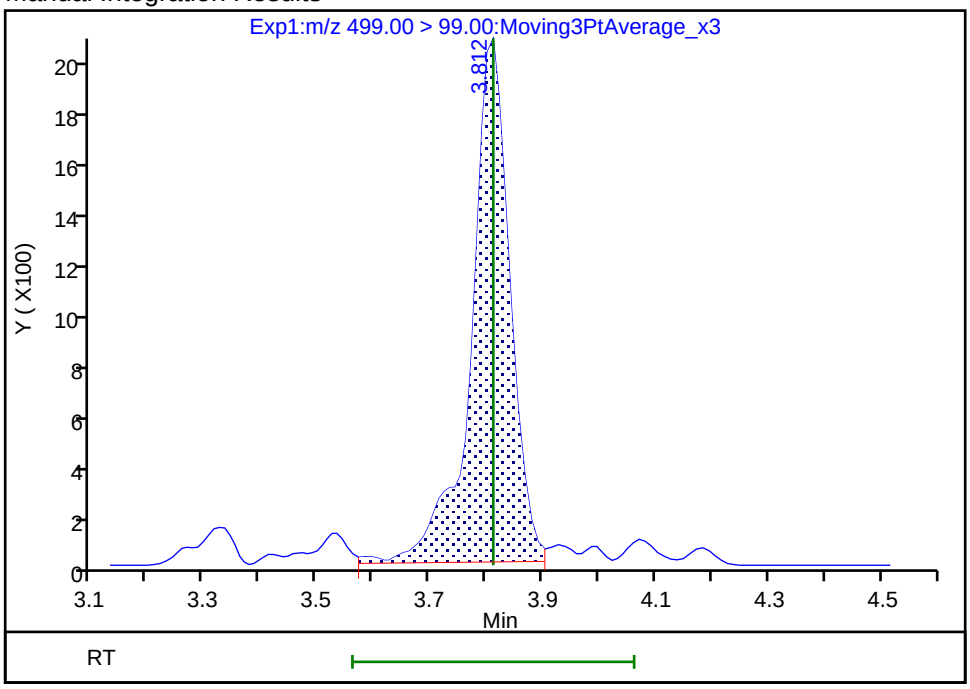
Processing Integration Results

RT: 3.81
Area: 11660
Amount: 0.042955
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 9757
Amount: 0.050831
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:29:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

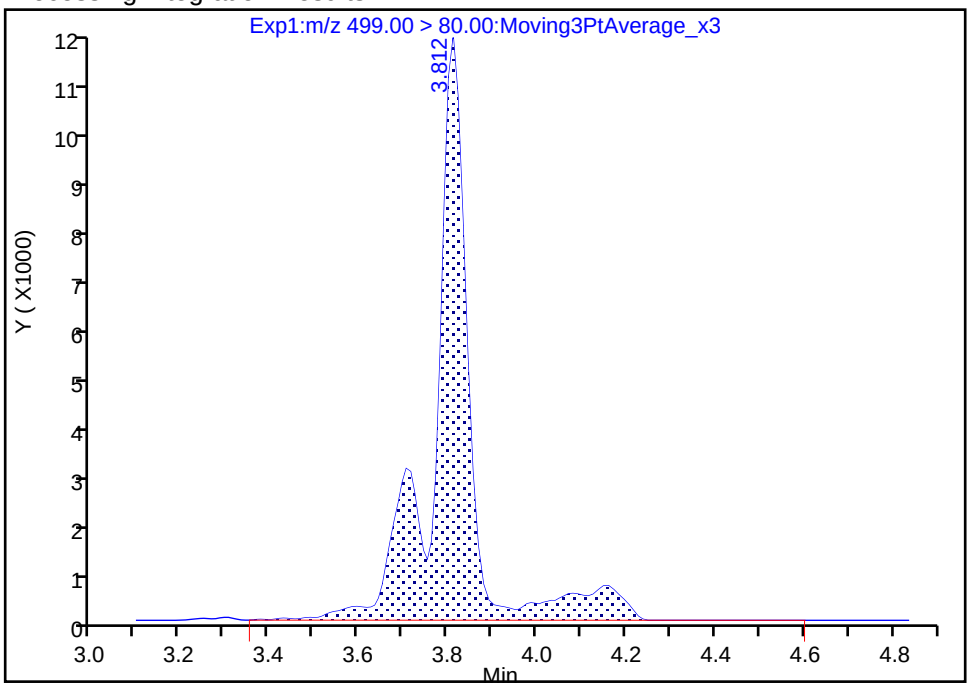
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

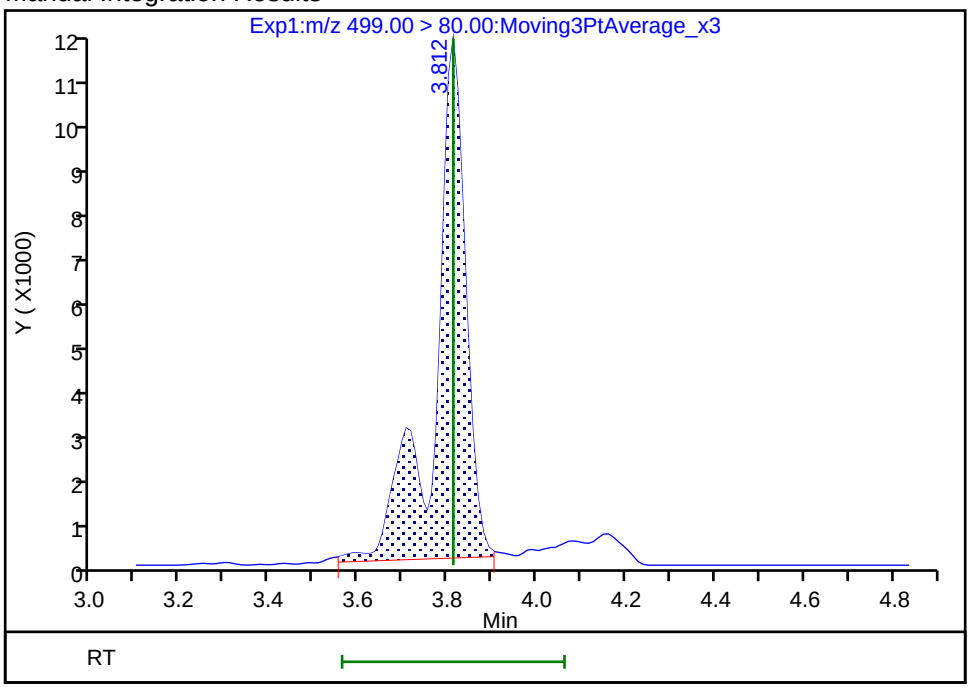
Processing Integration Results

RT: 3.81
Area: 63470
Amount: 0.042955
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 52805
Amount: 0.050831
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:30:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

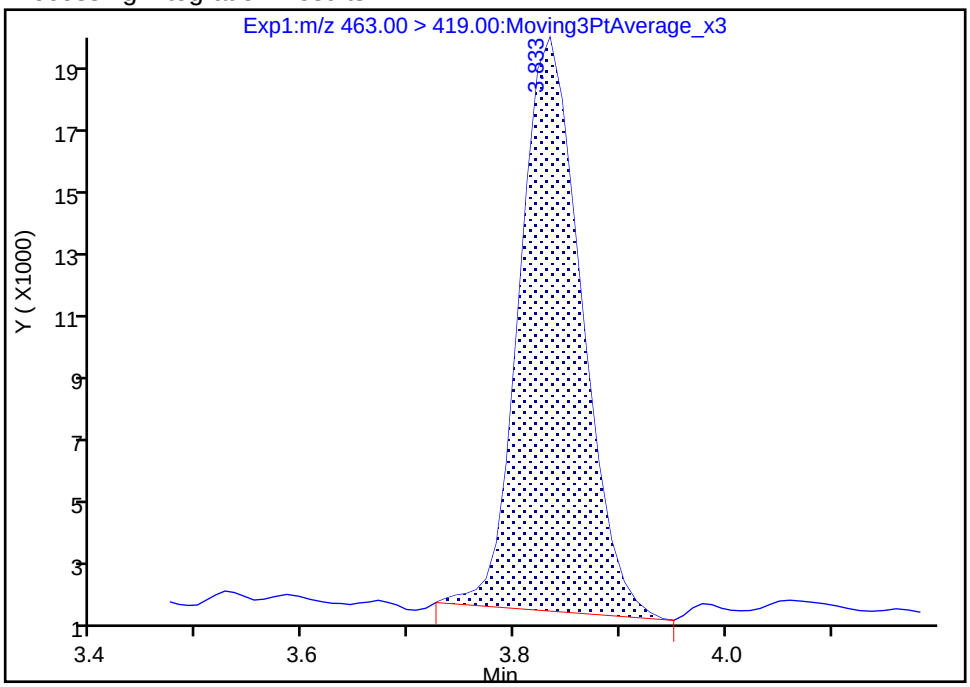
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

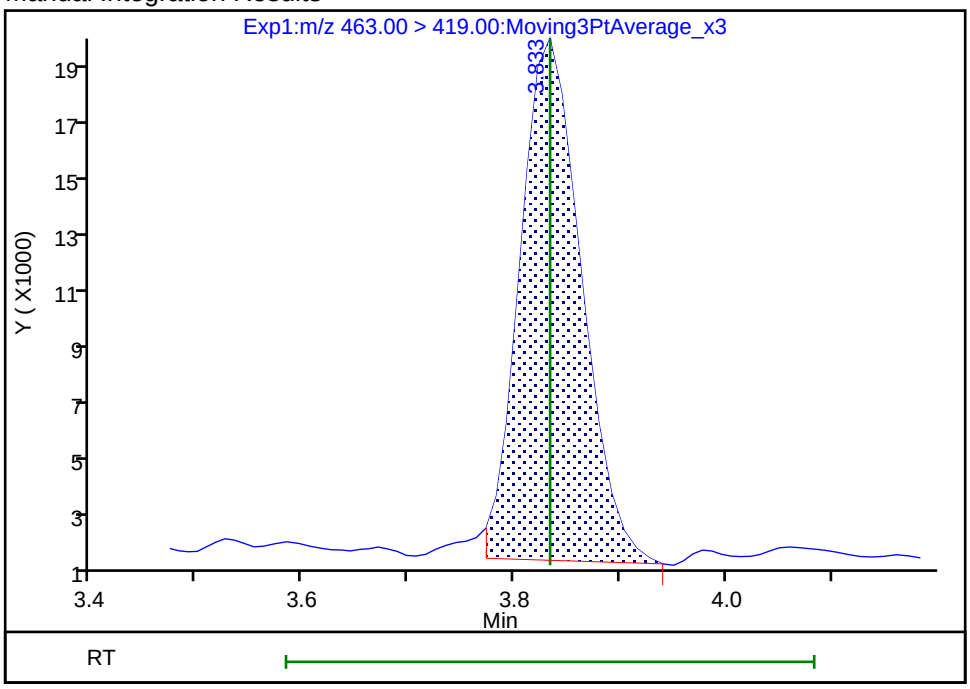
Processing Integration Results

RT: 3.83
Area: 73145
Amount: 0.050491
Amount Units: ng/ml



Manual Integration Results

RT: 3.83
Area: 73055
Amount: 0.054421
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:30:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

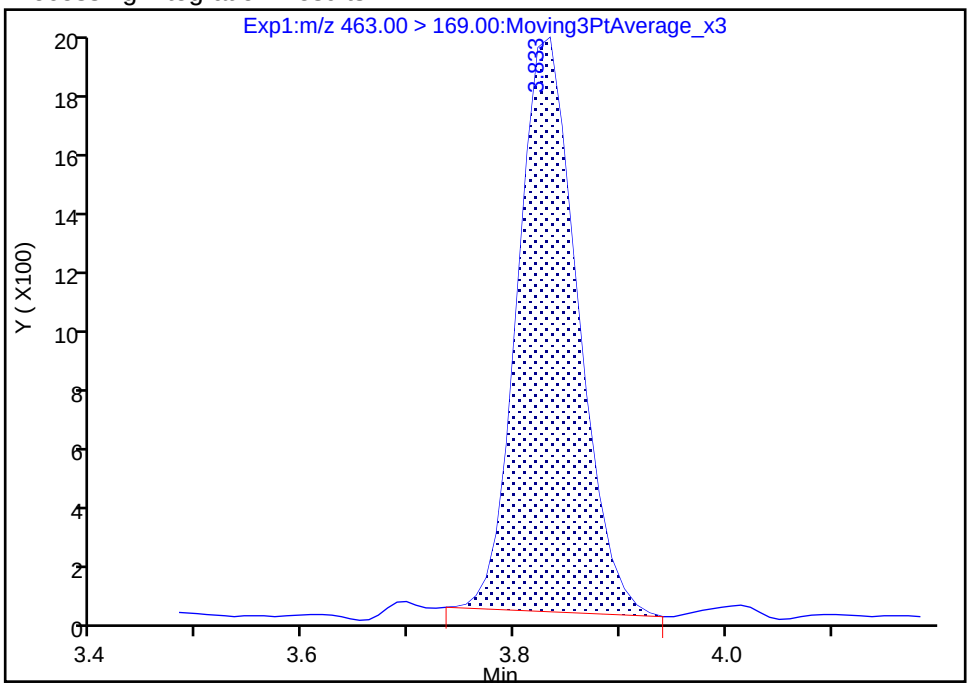
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

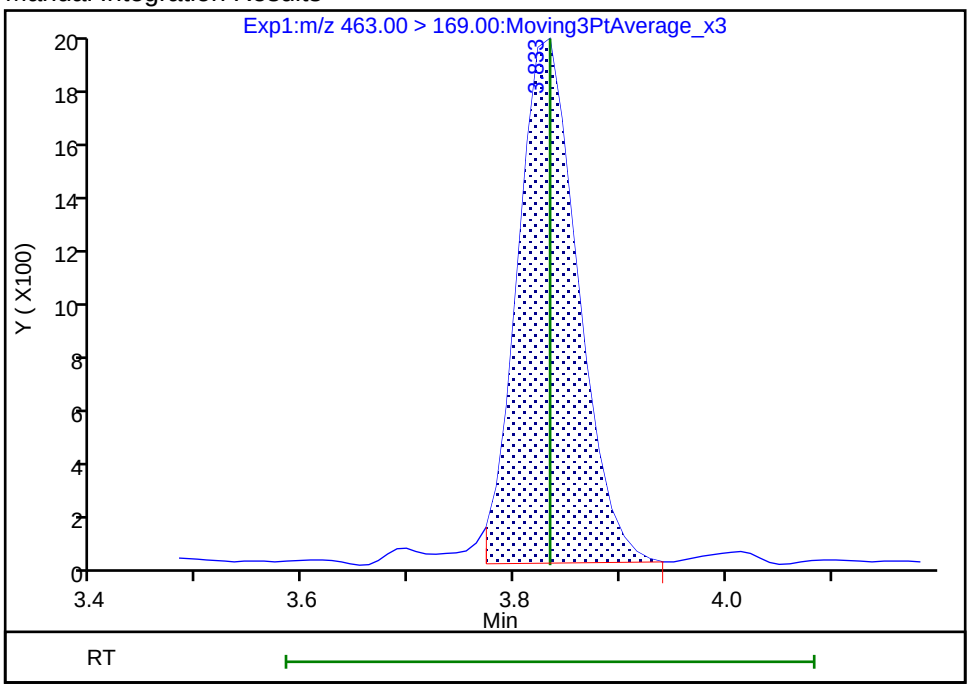
Processing Integration Results

RT: 3.83
Area: 7468
Amount: 0.050491
Amount Units: ng/ml



Manual Integration Results

RT: 3.83
Area: 7567
Amount: 0.054421
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:30:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

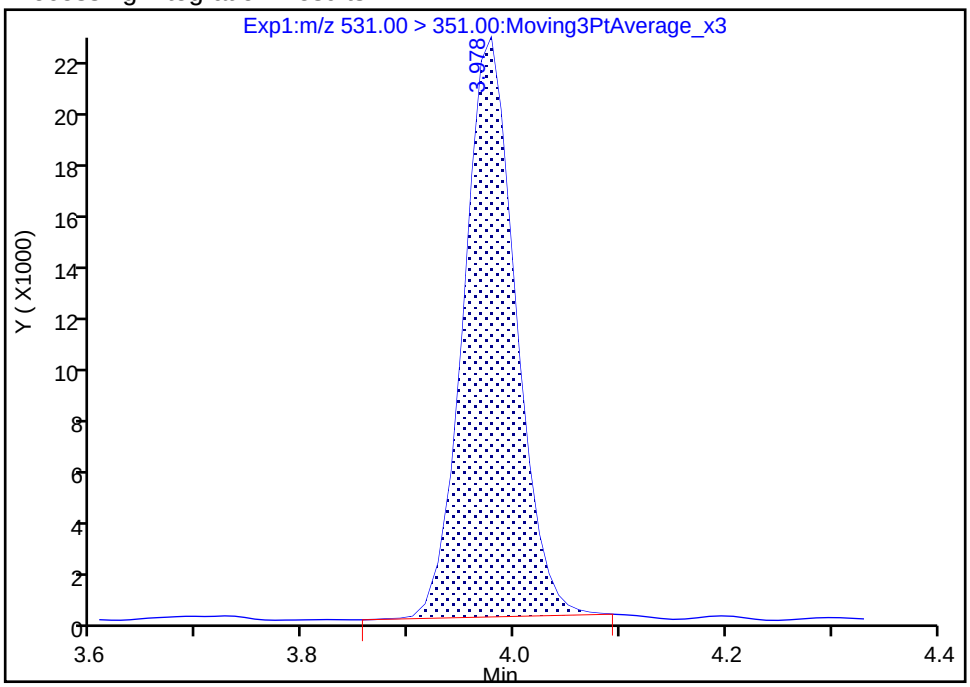
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d				
Injection Date:	05-May-2022 15:13:34	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

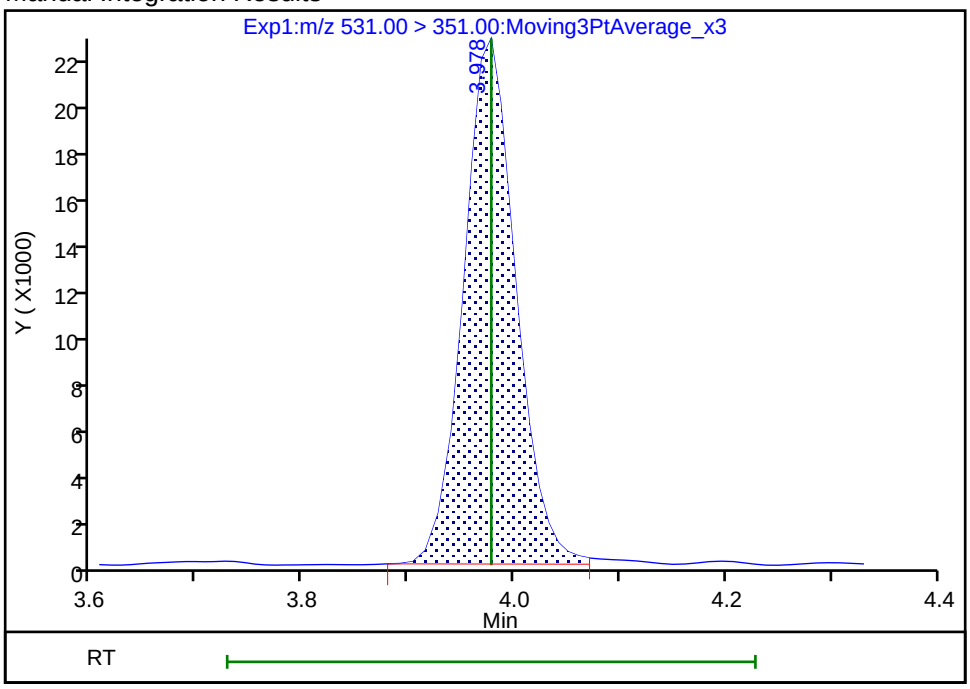
Processing Integration Results

RT: 3.98
Area: 77714
Amount: 0.041866
Amount Units: ng/ml



Manual Integration Results

RT: 3.98
Area: 78569
Amount: 0.045767
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:30:53

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

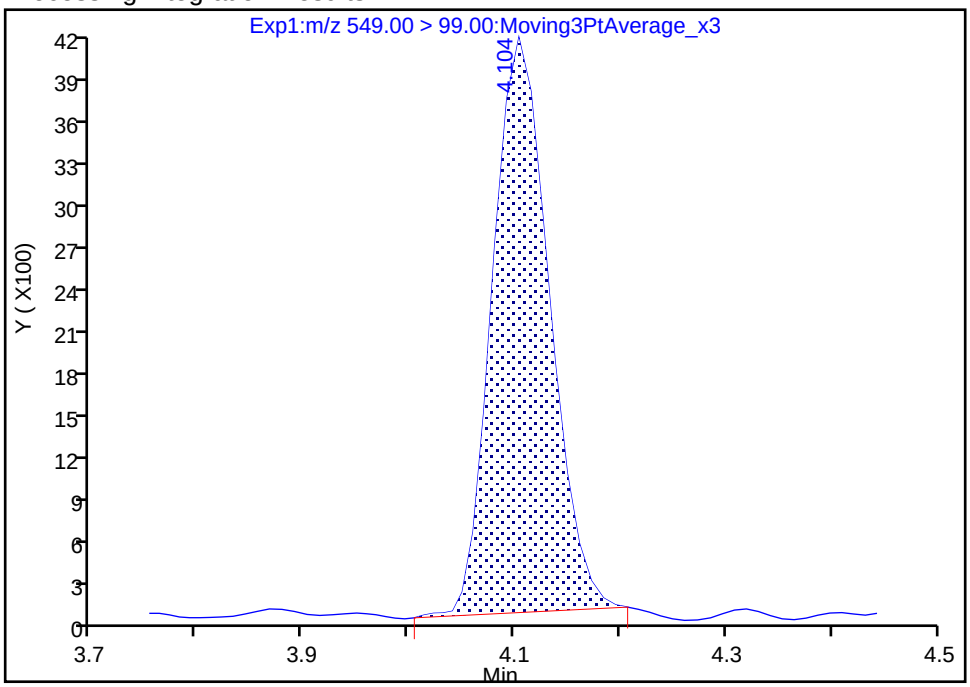
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

68 Perfluorononanesulfonic acid, CAS: 68259-12-1

Signal: 2

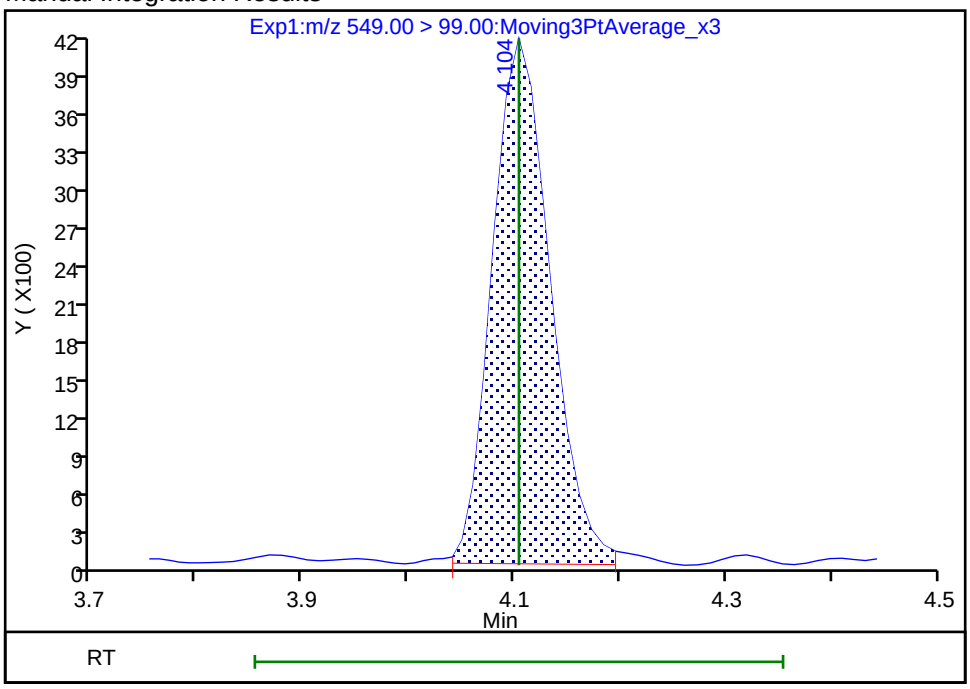
Processing Integration Results

RT: 4.10
Area: 15242
Amount: 0.048625
Amount Units: ng/ml



Manual Integration Results

RT: 4.10
Area: 15655
Amount: 0.052240
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:31:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

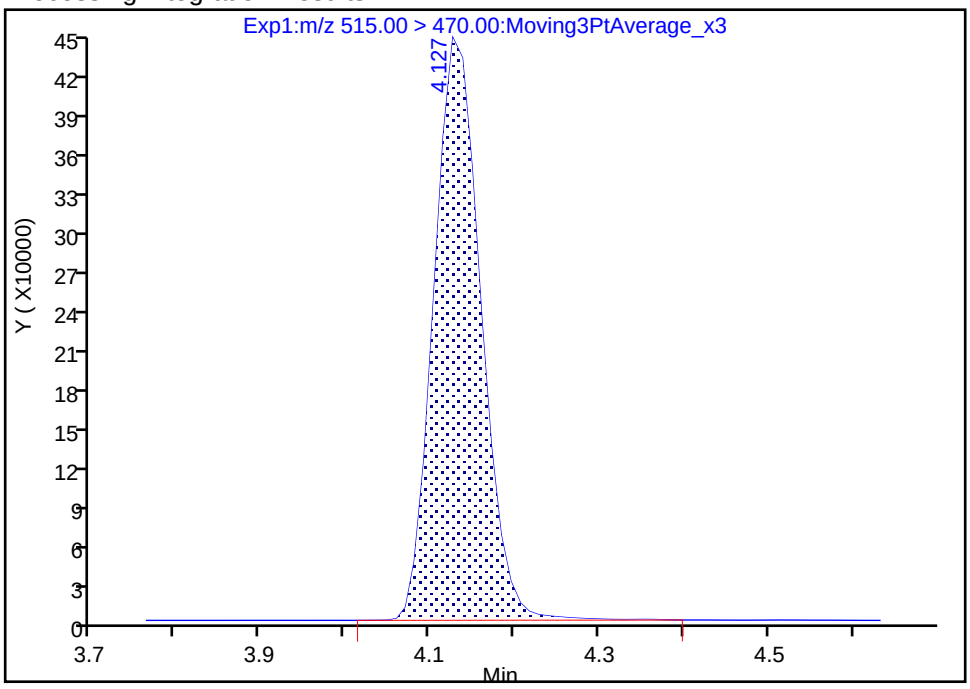
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

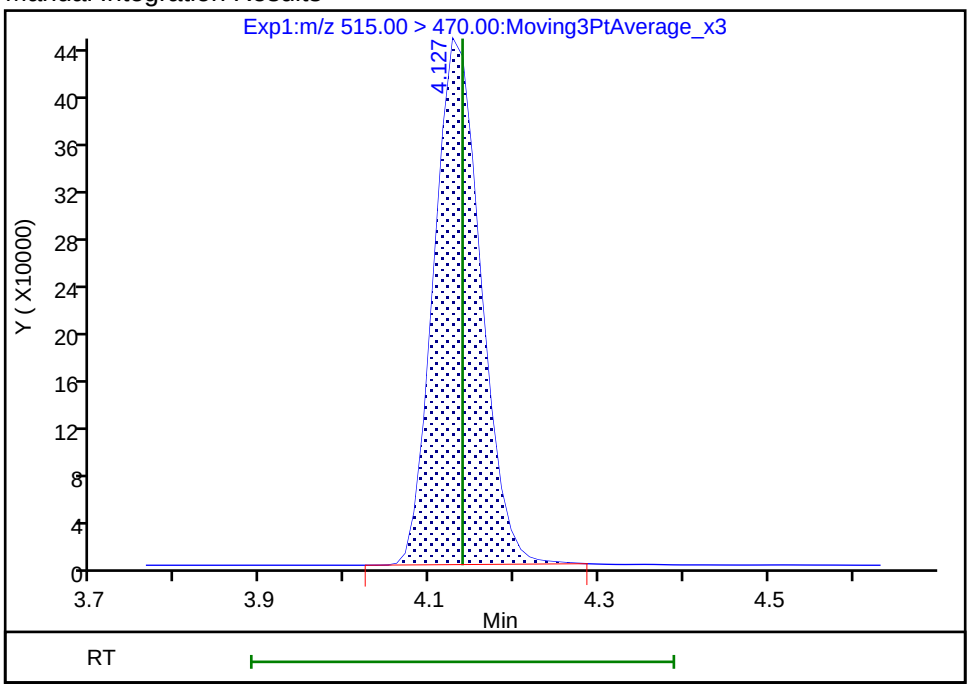
Processing Integration Results

RT: 4.13
Area: 1704395
Amount: 1.313629
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 1692740
Amount: 1.277704
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:31:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

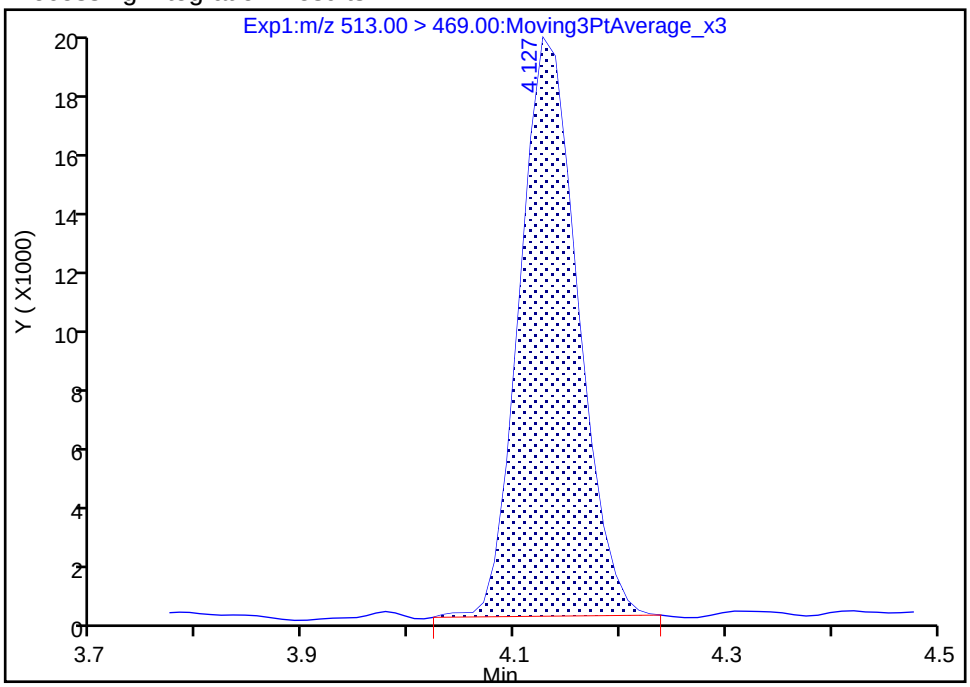
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

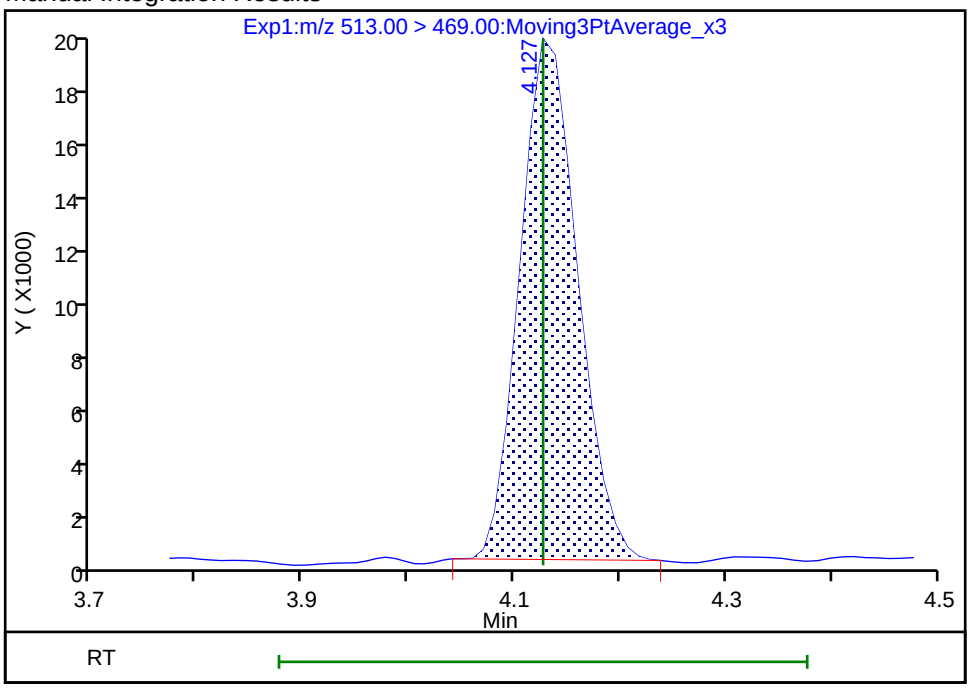
Processing Integration Results

RT: 4.13
Area: 74194
Amount: 0.049669
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 73329
Amount: 0.050827
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:31:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

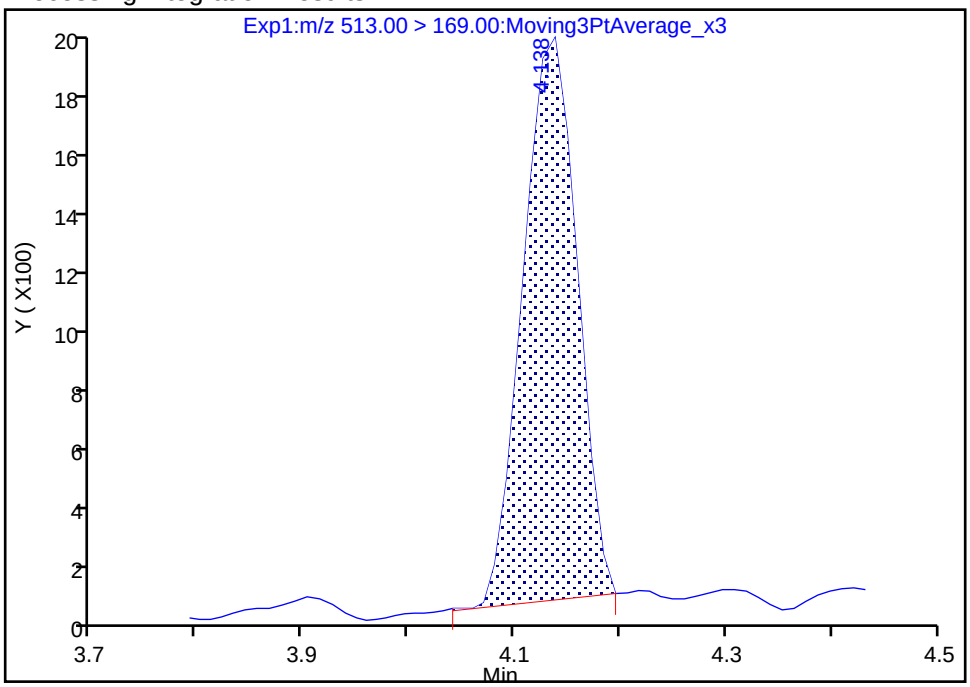
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

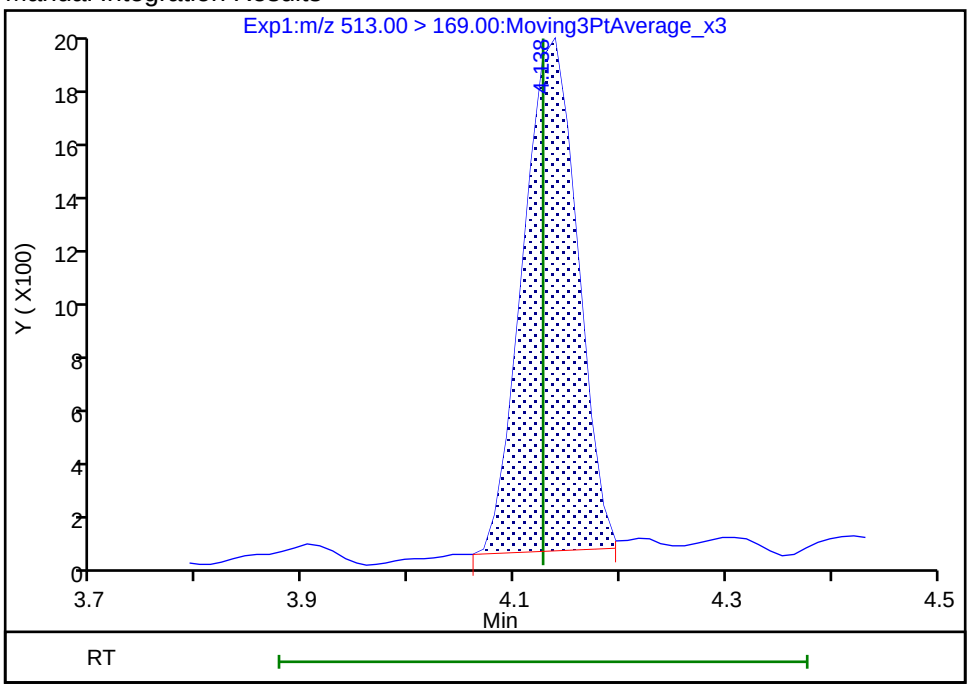
Processing Integration Results

RT: 4.14
Area: 6740
Amount: 0.049669
Amount Units: ng/ml



Manual Integration Results

RT: 4.14
Area: 6842
Amount: 0.050827
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:31:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

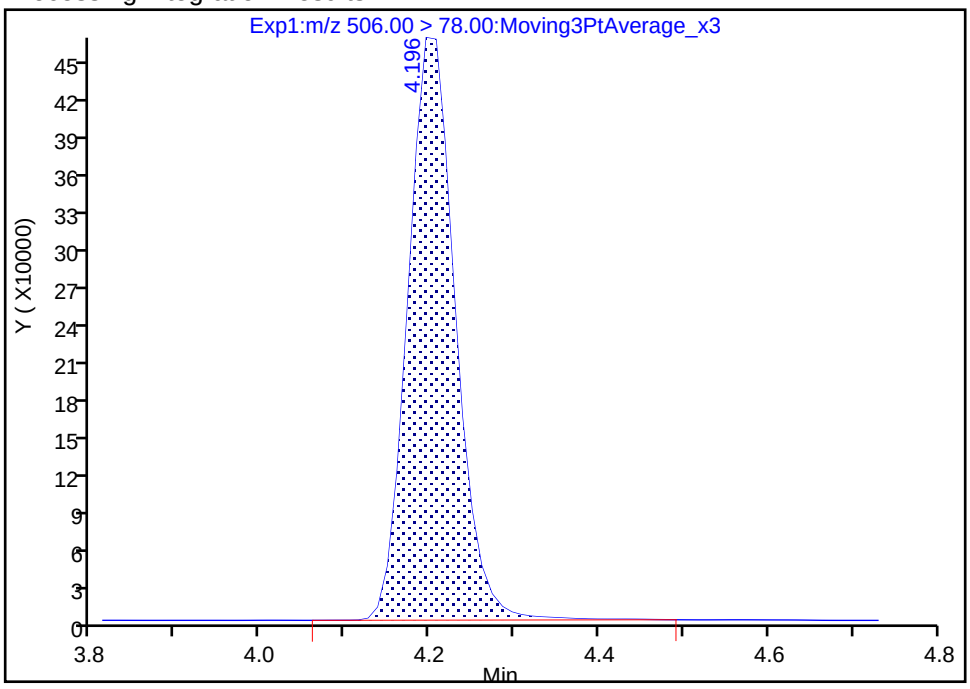
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

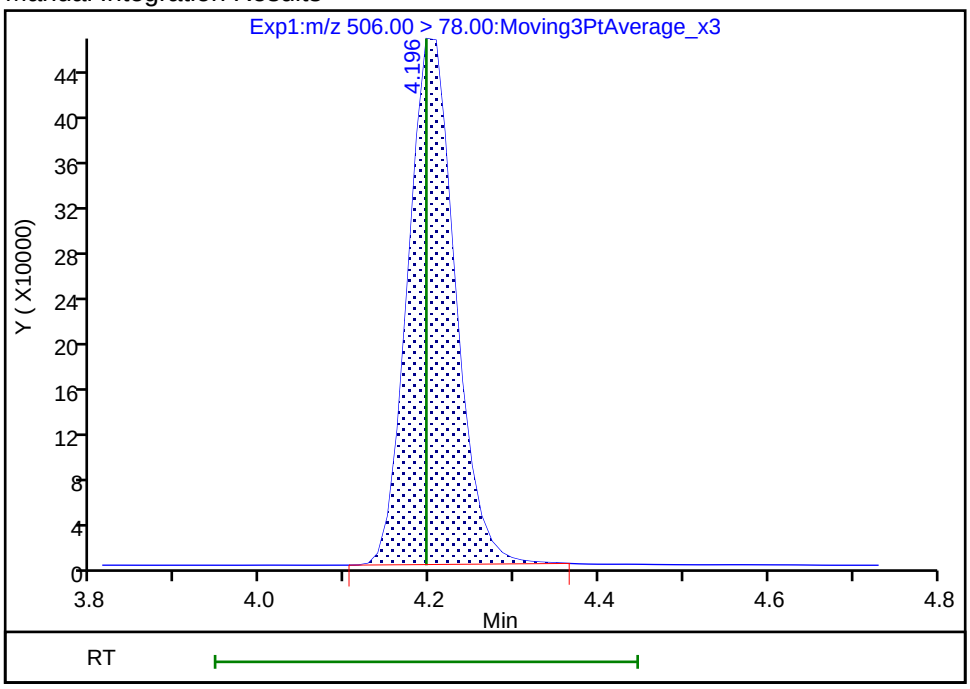
Processing Integration Results

RT: 4.20
Area: 1819756
Amount: 1.223806
Amount Units: ng/ml



Manual Integration Results

RT: 4.20
Area: 1806437
Amount: 1.239355
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:31:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

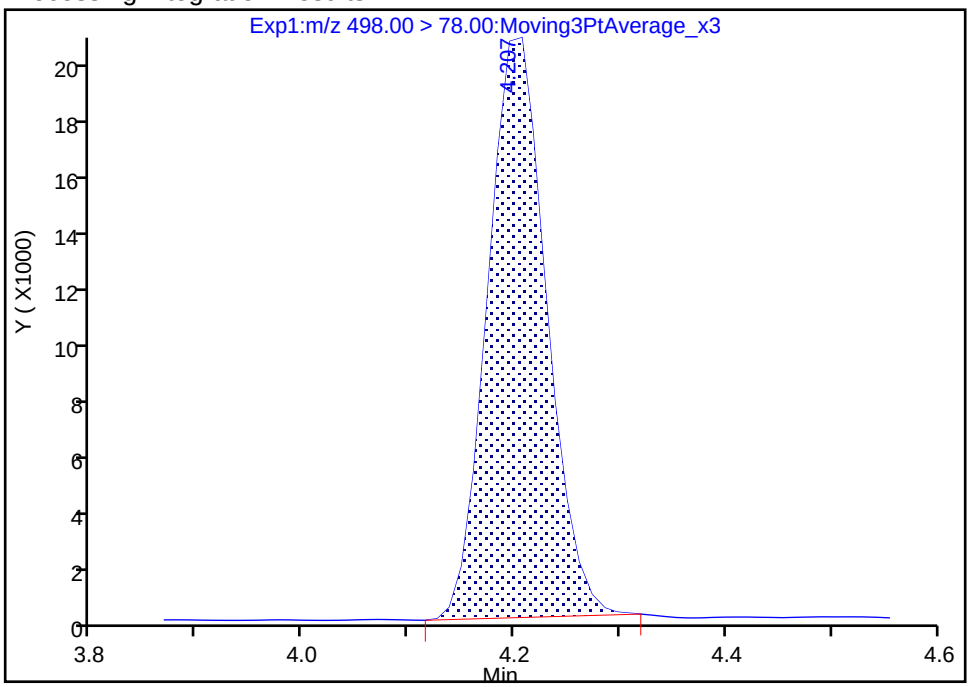
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

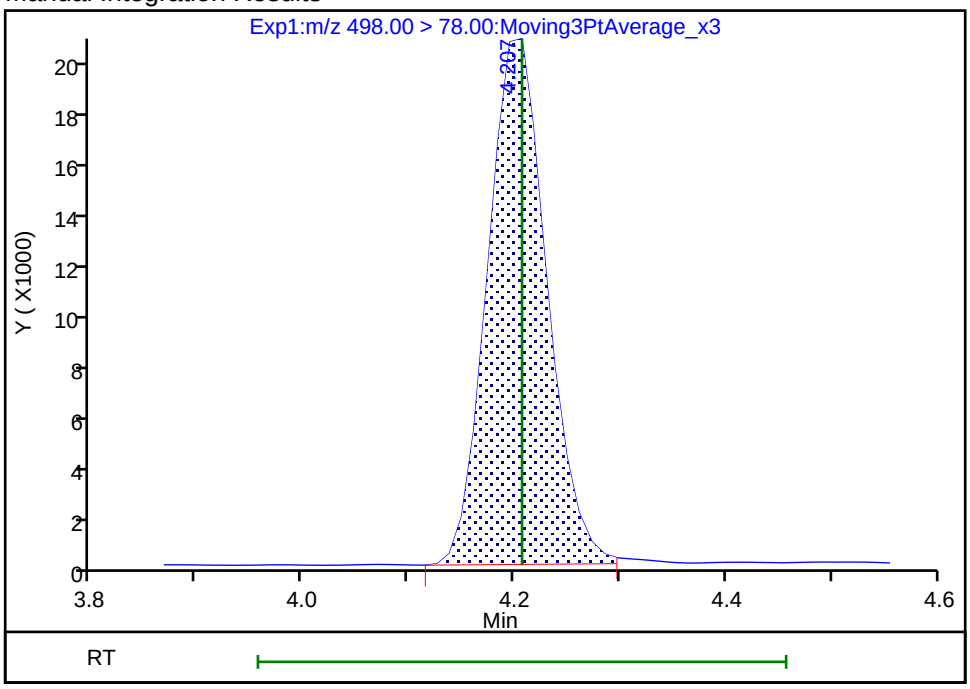
Processing Integration Results

RT: 4.21
Area: 77657
Amount: 0.051310
Amount Units: ng/ml



Manual Integration Results

RT: 4.21
Area: 78326
Amount: 0.053413
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:31:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

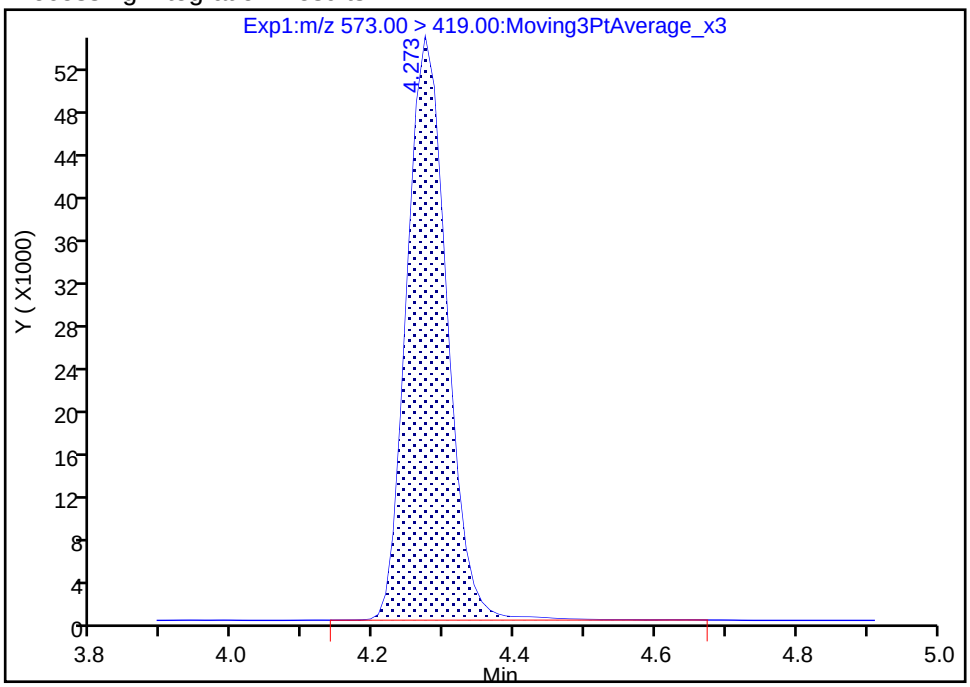
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

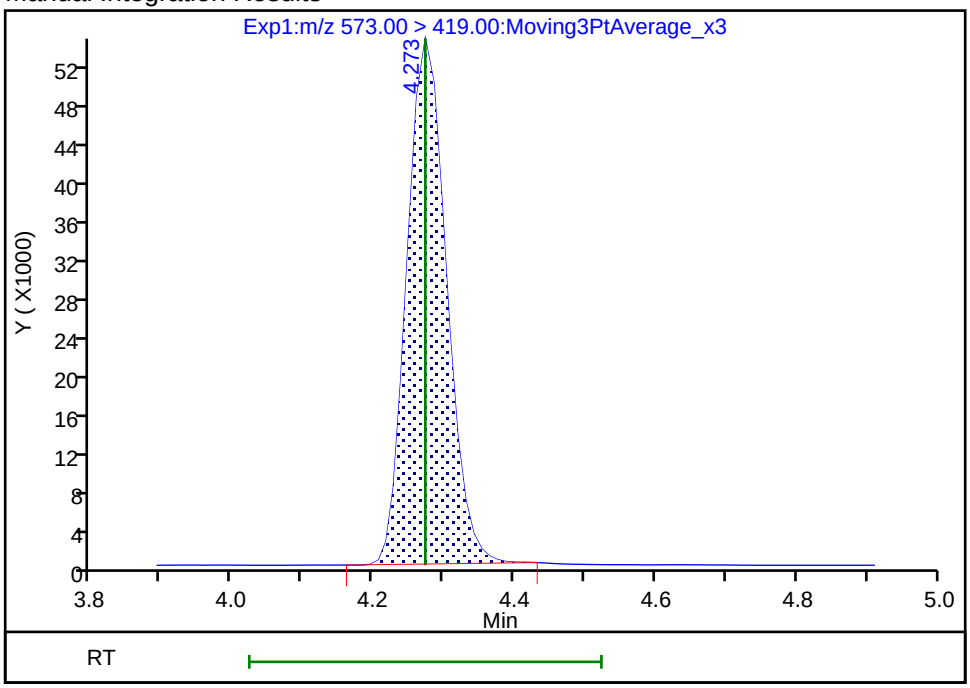
Processing Integration Results

RT: 4.27
Area: 215851
Amount: 1.200707
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 212989
Amount: 1.211191
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:31:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

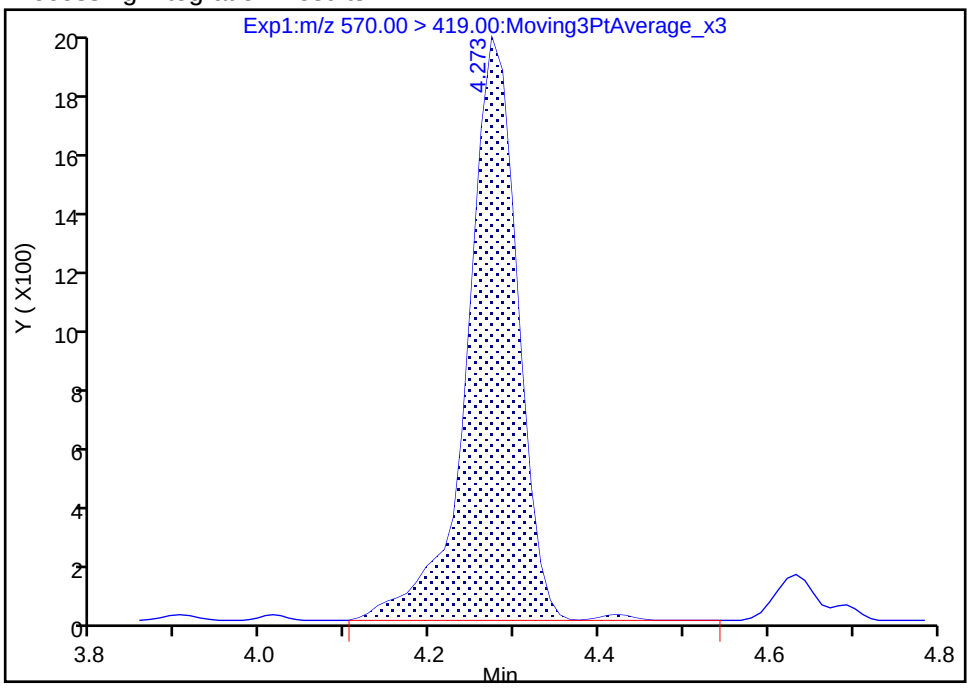
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

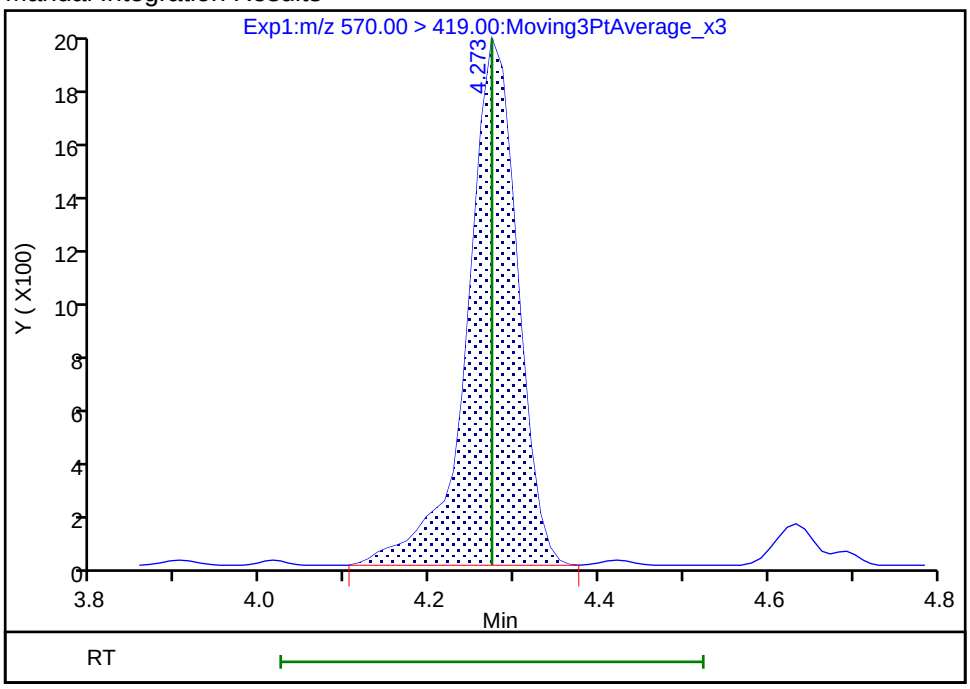
Processing Integration Results

RT: 4.27
Area: 8136
Amount: 0.035110
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 8087
Amount: 0.052189
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:32:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

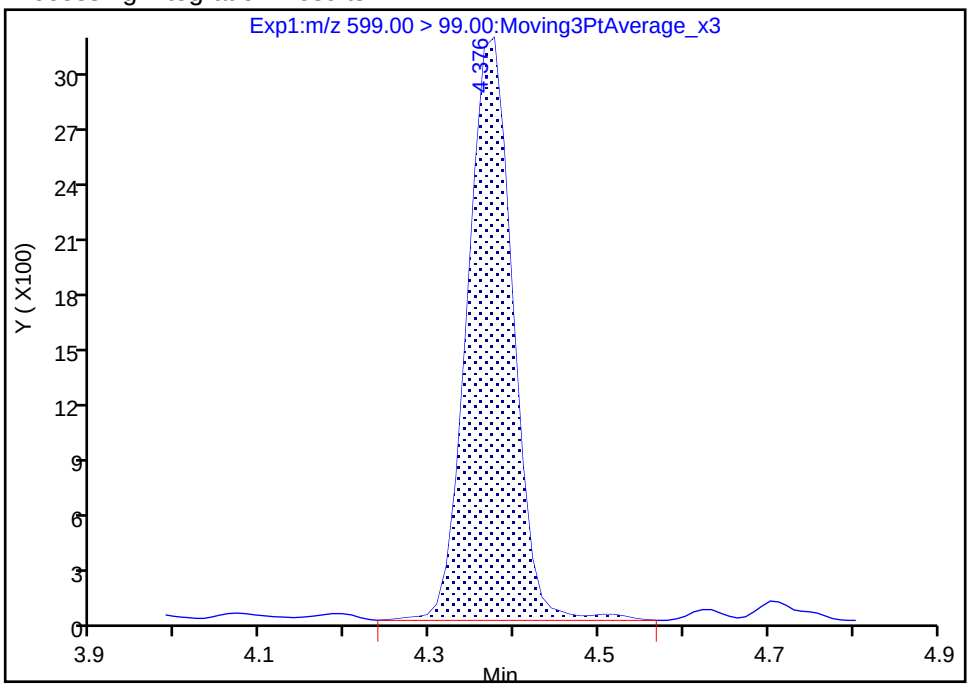
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

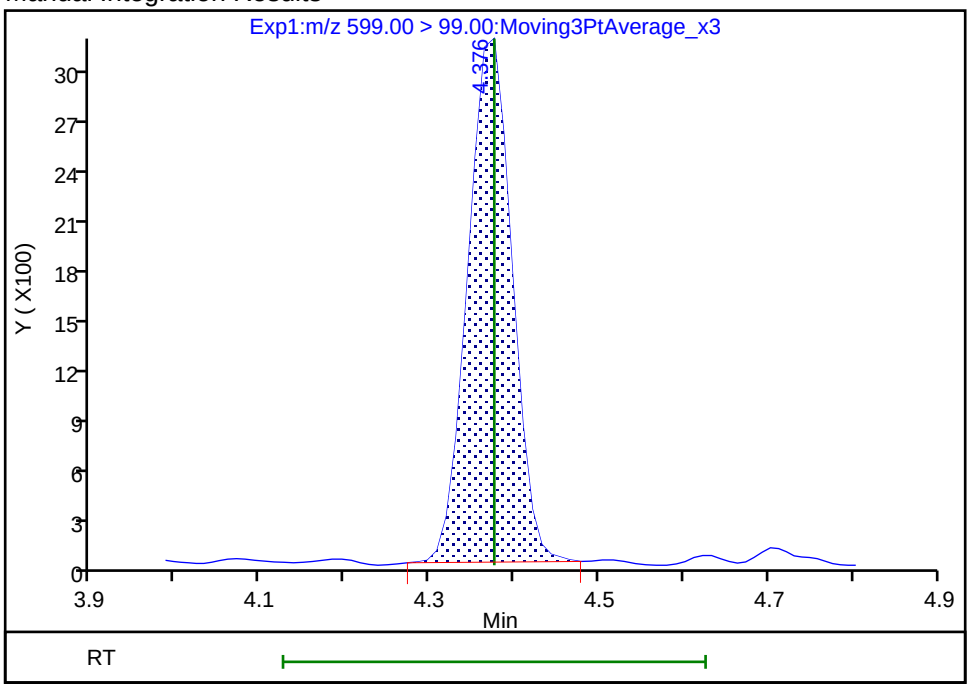
Processing Integration Results

RT: 4.38
Area: 11905
Amount: 0.040878
Amount Units: ng/ml



Manual Integration Results

RT: 4.38
Area: 11552
Amount: 0.044496
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:32:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

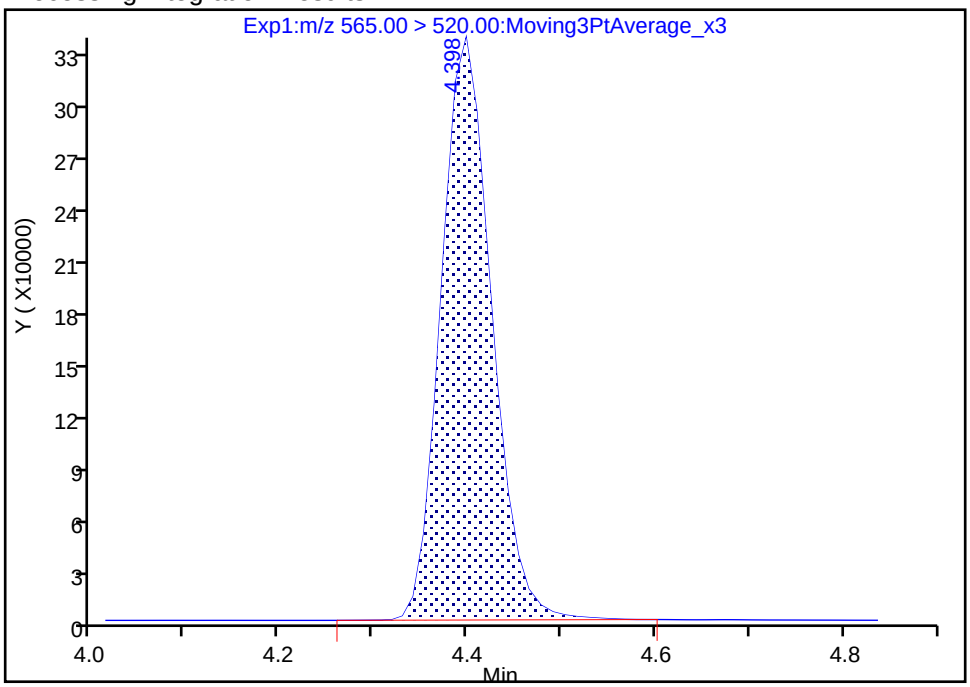
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

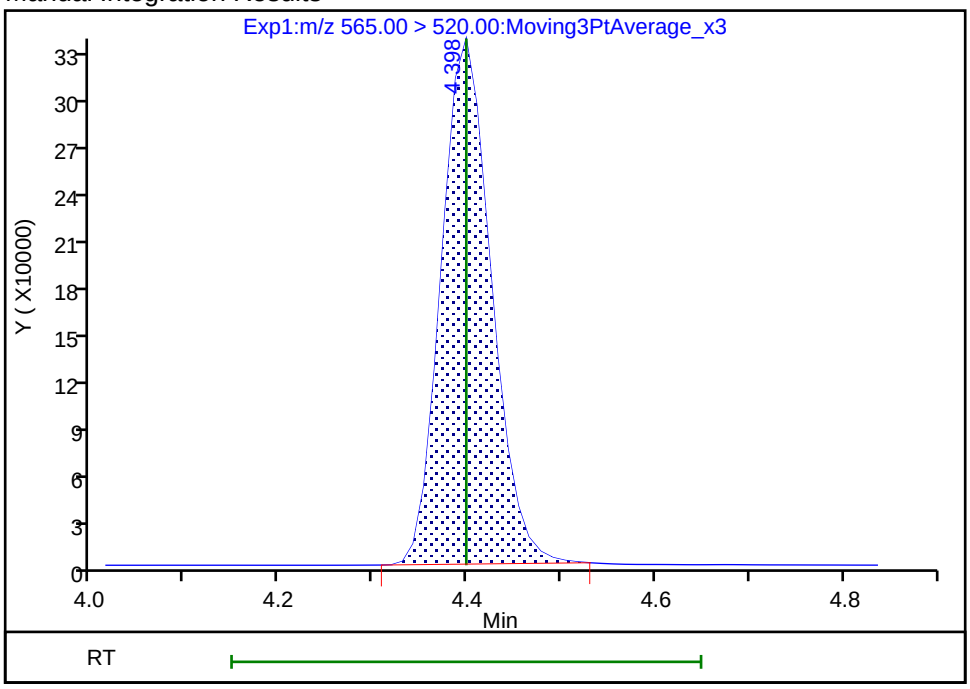
Processing Integration Results

RT: 4.40
Area: 1264738
Amount: 1.232549
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 1254675
Amount: 1.179544
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:32:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

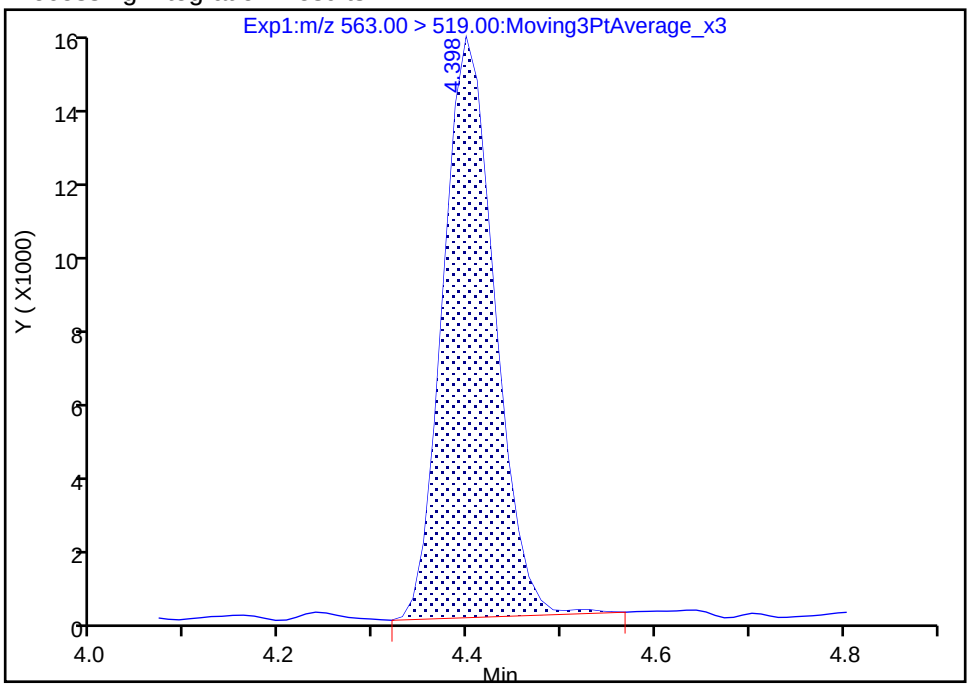
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

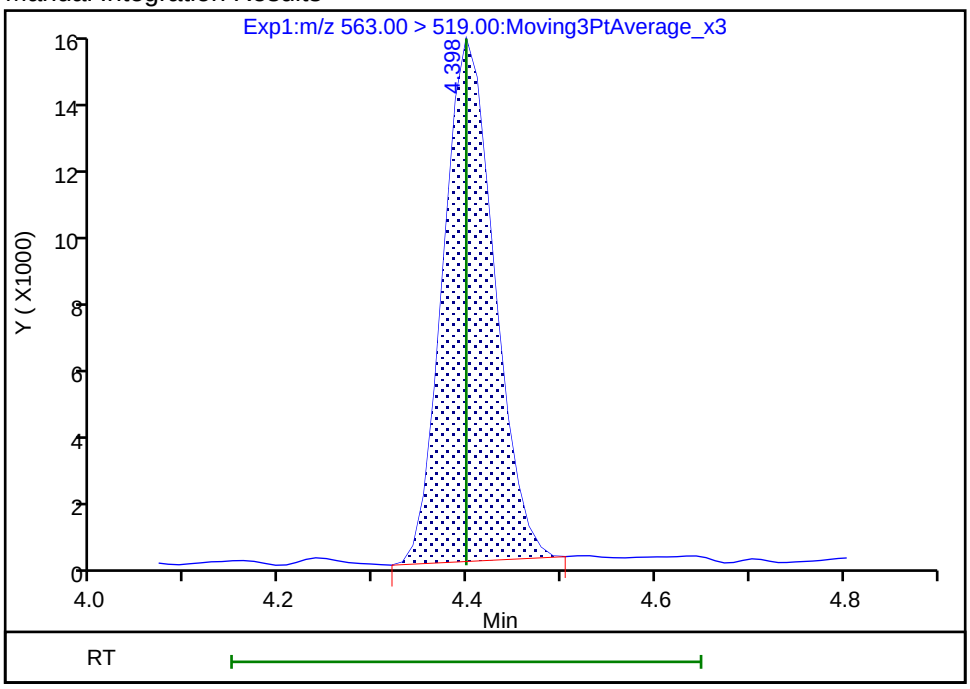
Processing Integration Results

RT: 4.40
Area: 57679
Amount: 0.050908
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 56949
Amount: 0.055054
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:32:20
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

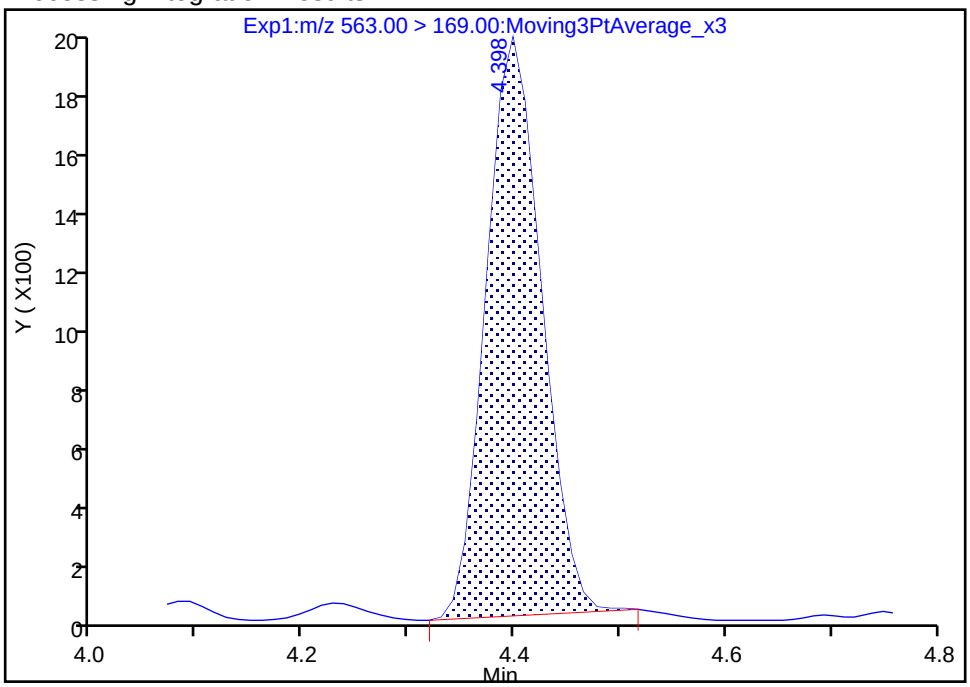
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

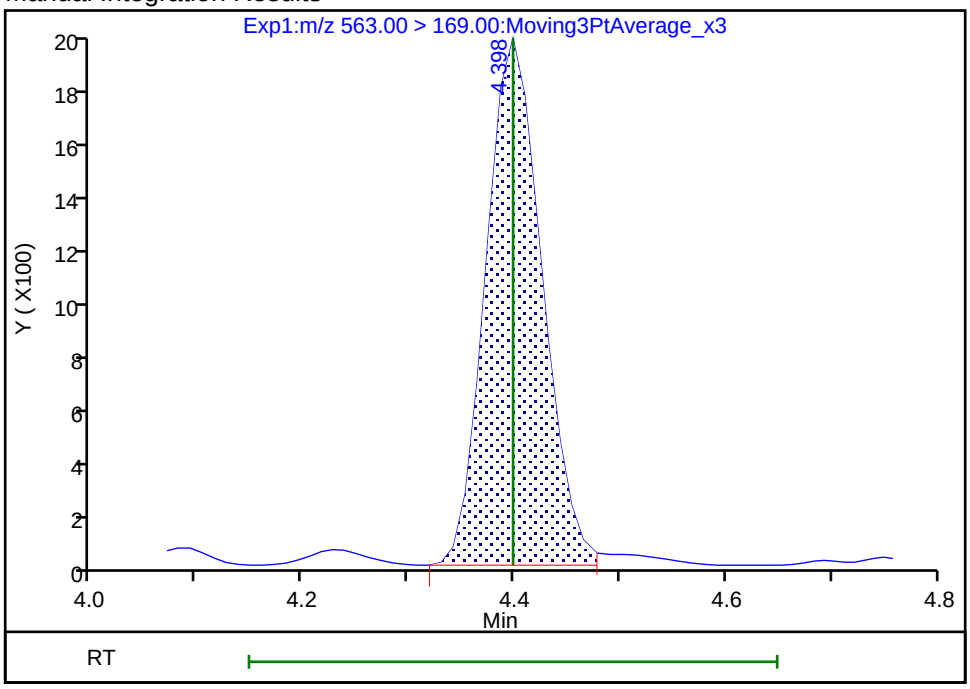
Processing Integration Results

RT: 4.40
Area: 7115
Amount: 0.050908
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 7240
Amount: 0.055054
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:32:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

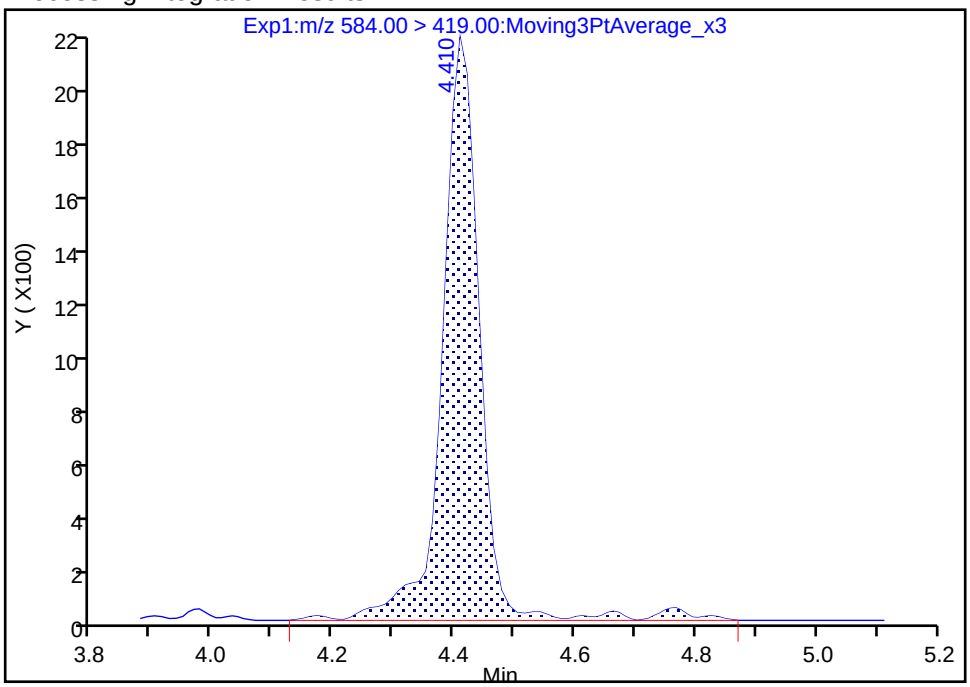
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

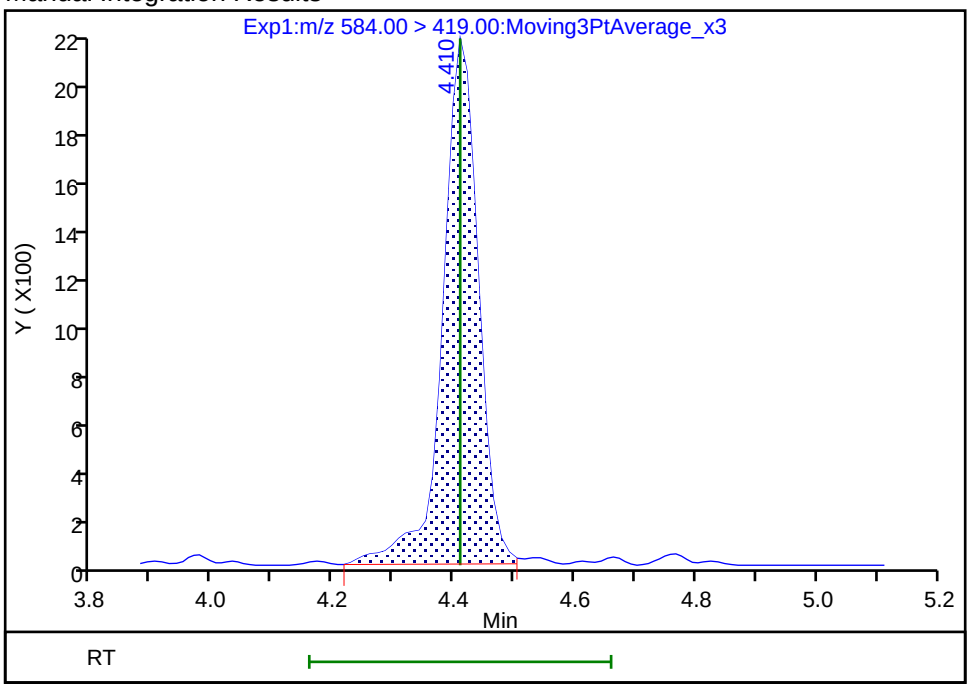
Processing Integration Results

RT: 4.41
Area: 9437
Amount: 0.039906
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 8908
Amount: 0.055033
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:32:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

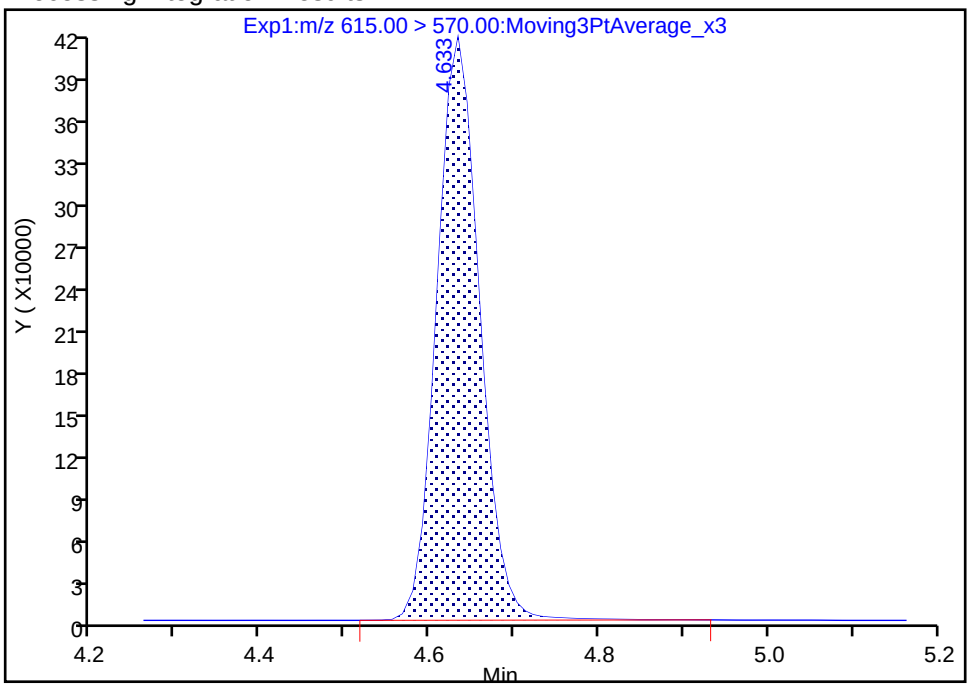
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 36 13C2 PFDoA, CAS: STL00998

Signal: 1

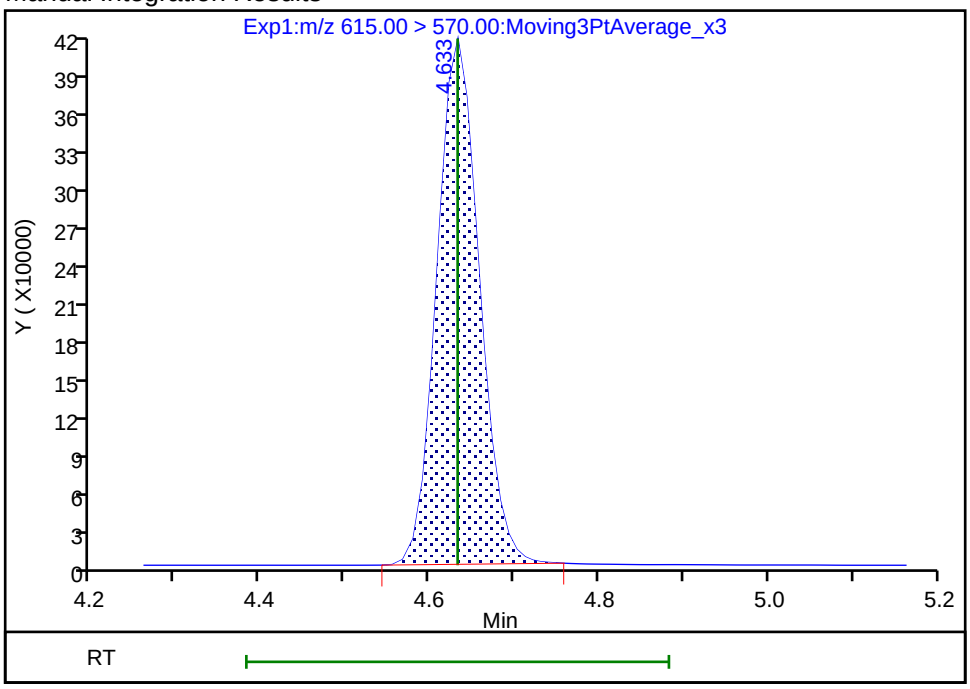
Processing Integration Results

RT: 4.63
Area: 1444824
Amount: 1.296616
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 1431189
Amount: 1.259870
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:32:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

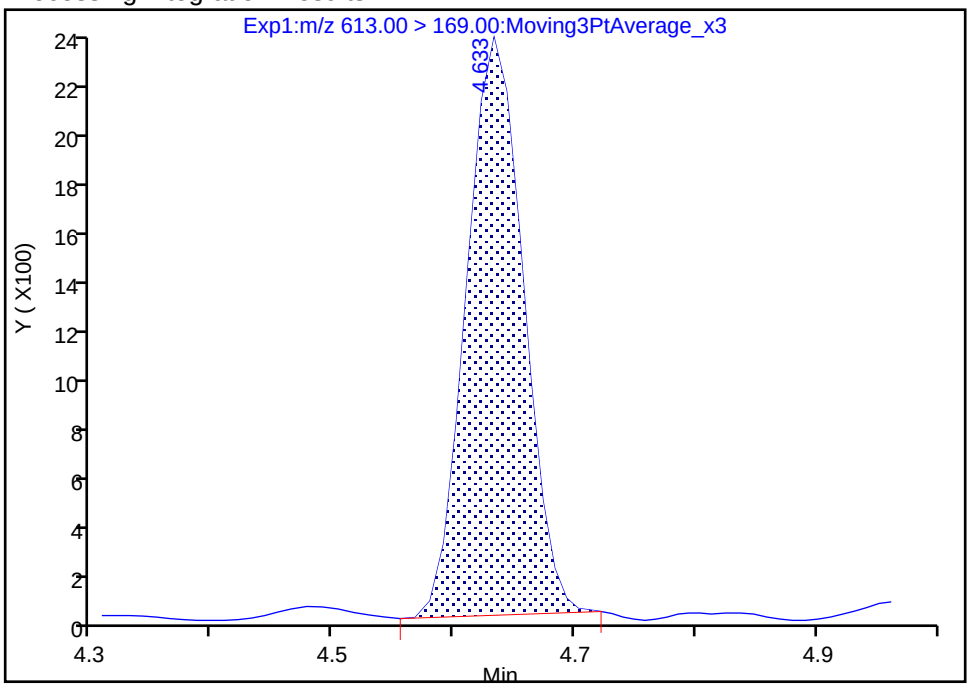
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

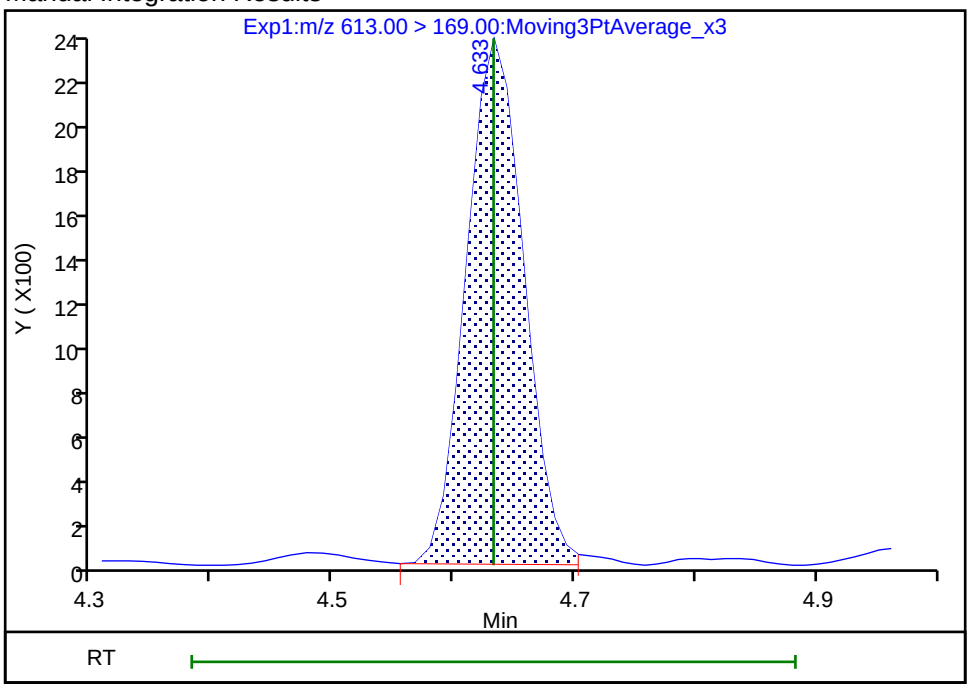
Processing Integration Results

RT: 4.63
Area: 7480
Amount: 0.050972
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 7603
Amount: 0.053486
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:33:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

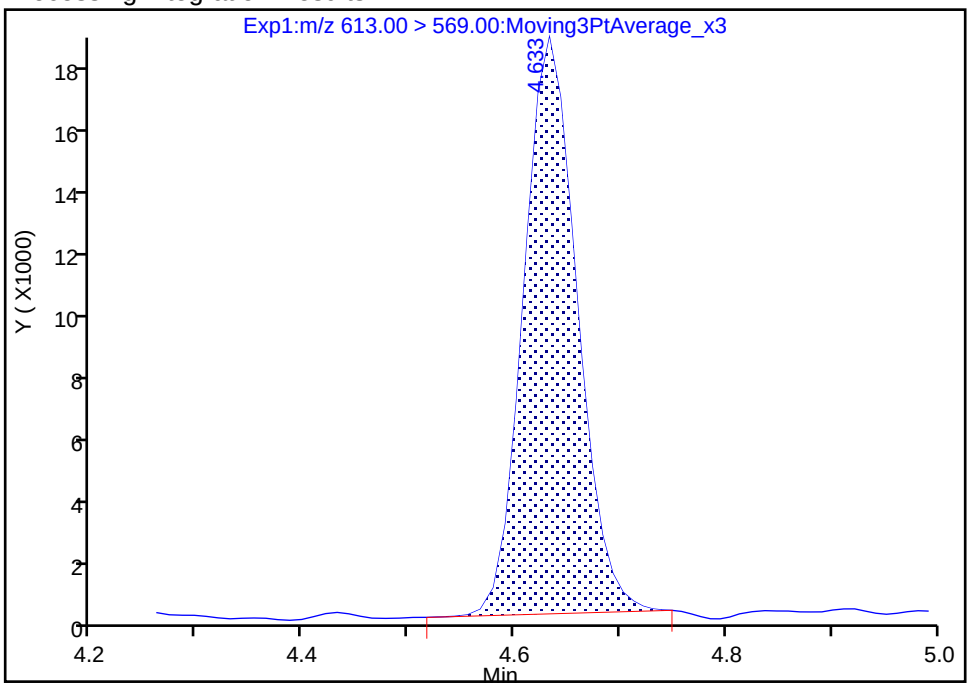
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

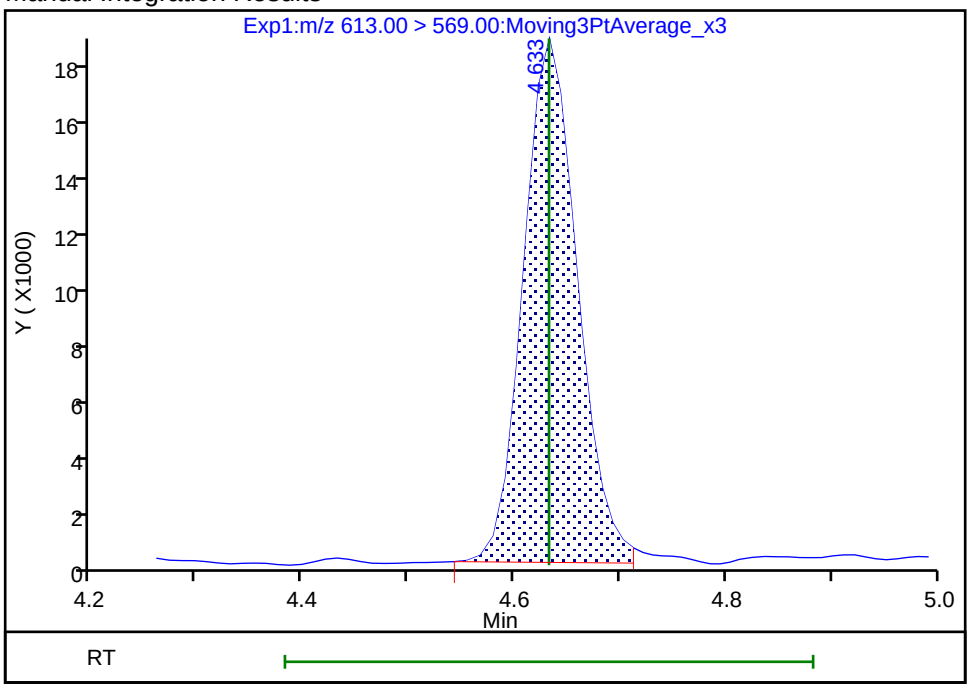
Processing Integration Results

RT: 4.63
Area: 62394
Amount: 0.050972
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 63159
Amount: 0.053486
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:33:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

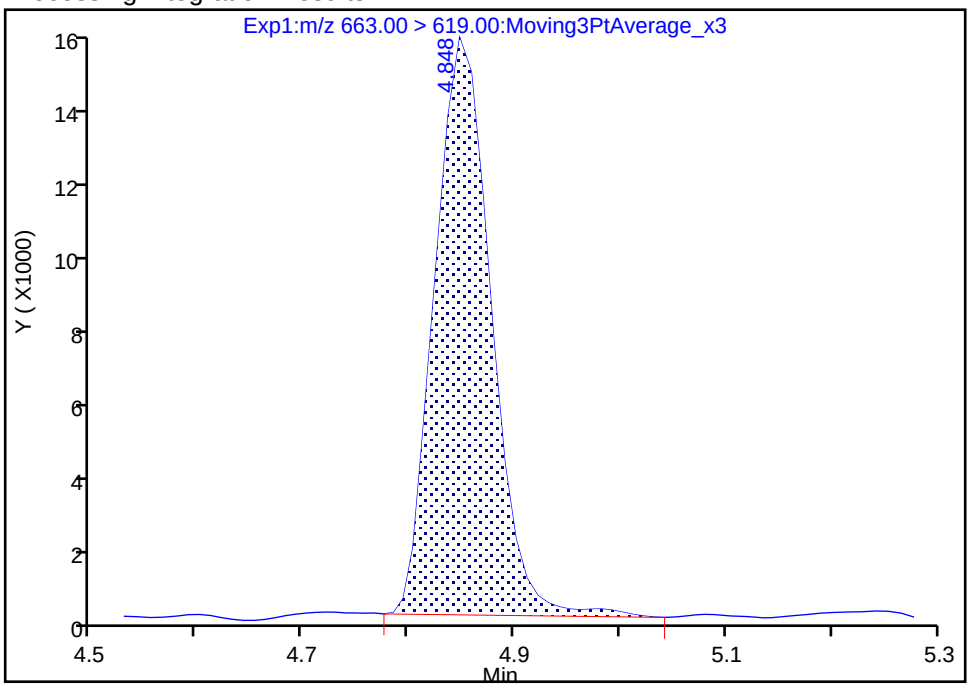
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

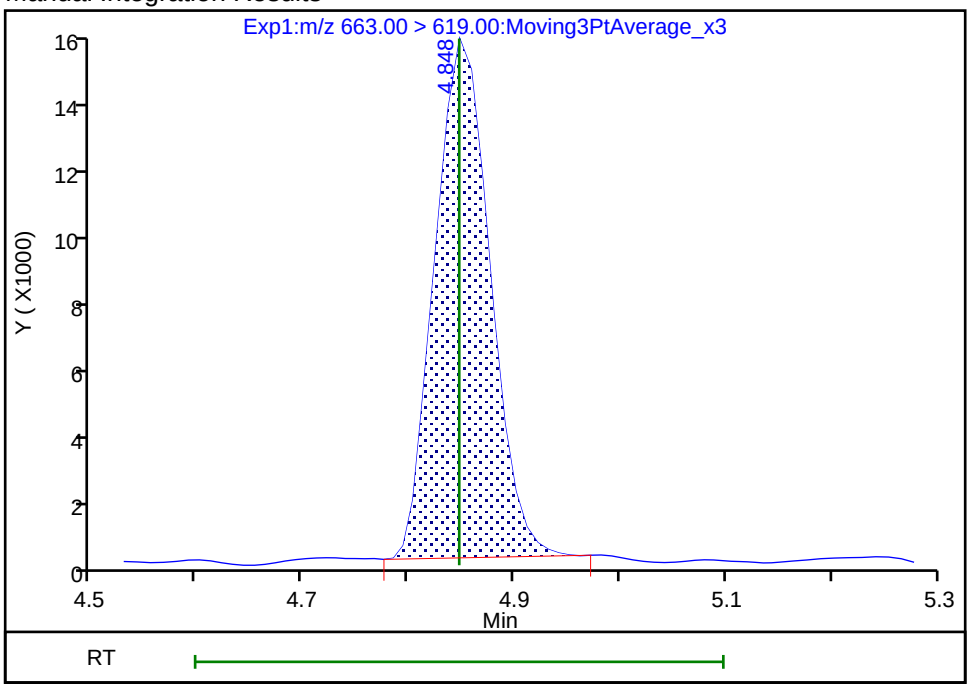
Processing Integration Results

RT: 4.85
Area: 54893
Amount: 0.052124
Amount Units: ng/ml



Manual Integration Results

RT: 4.85
Area: 53411
Amount: 0.053106
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:33:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

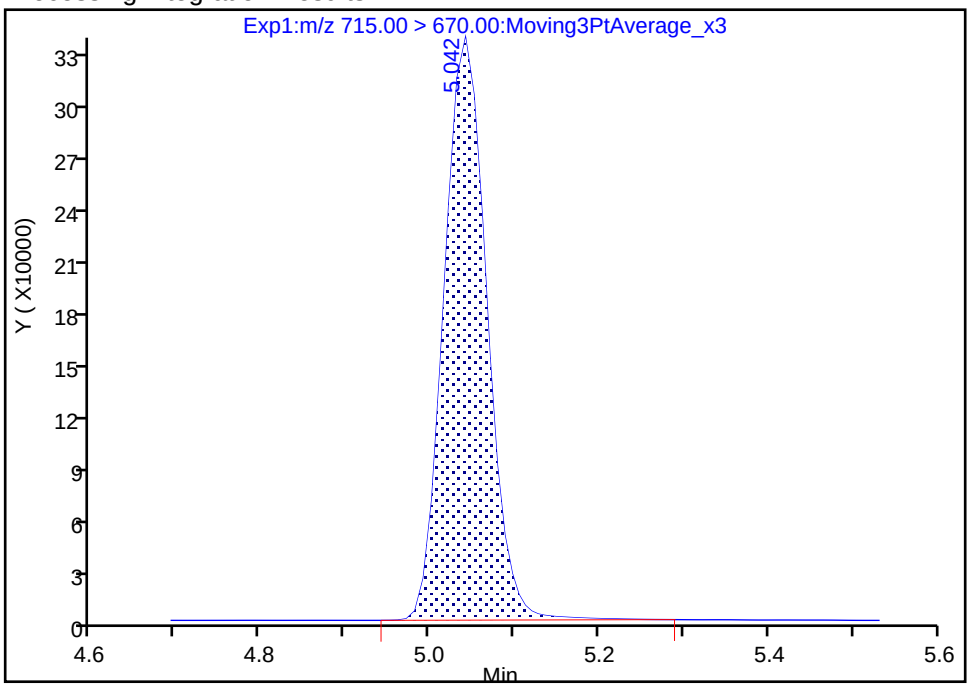
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

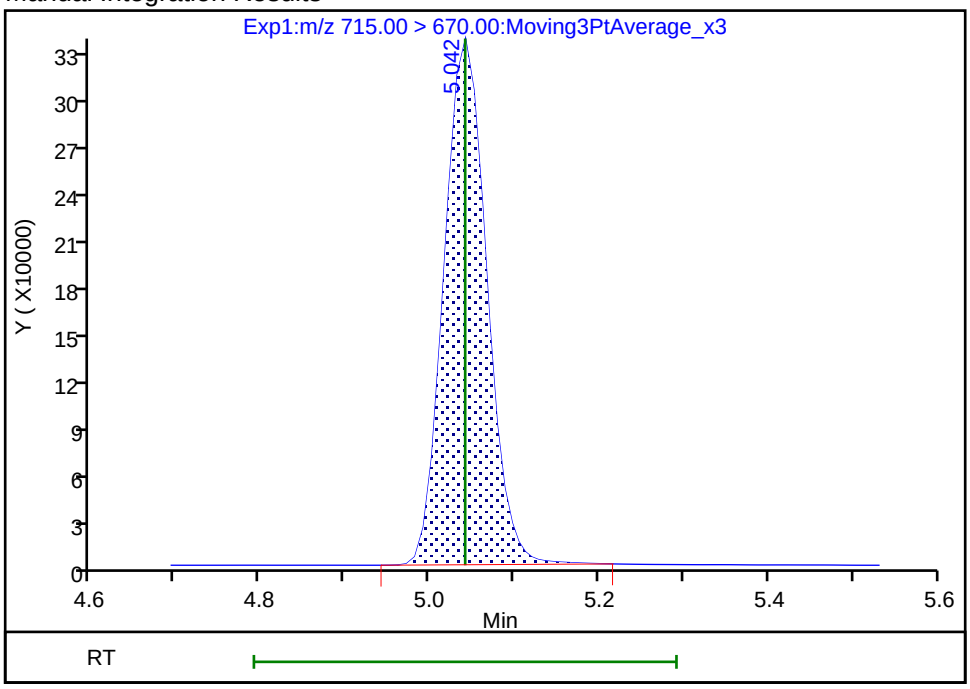
Processing Integration Results

RT: 5.04
Area: 1174630
Amount: 1.344146
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 1169586
Amount: 1.259741
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:33:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

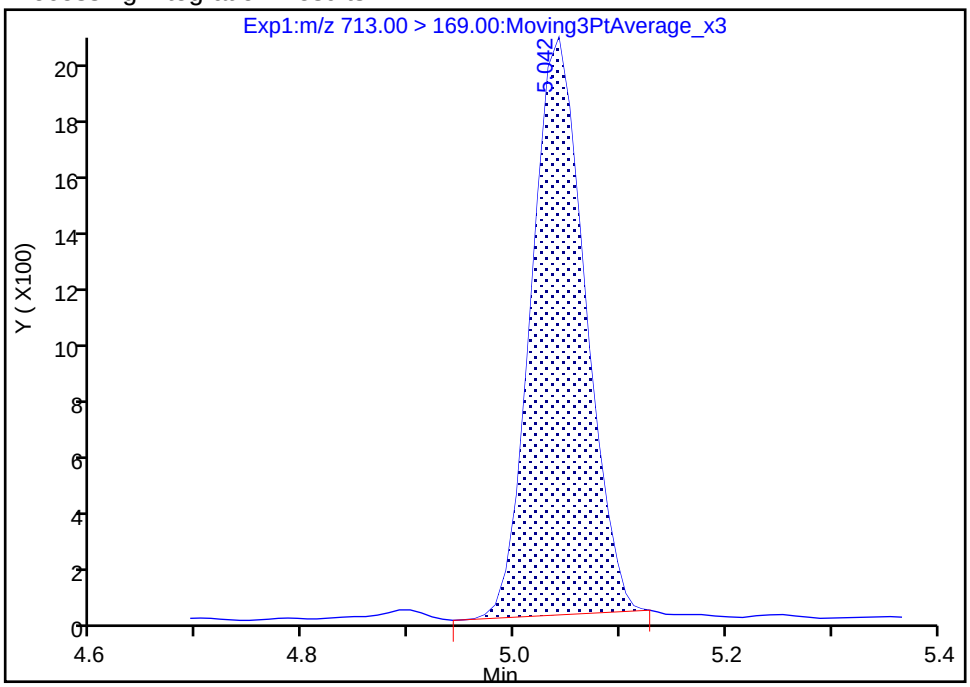
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

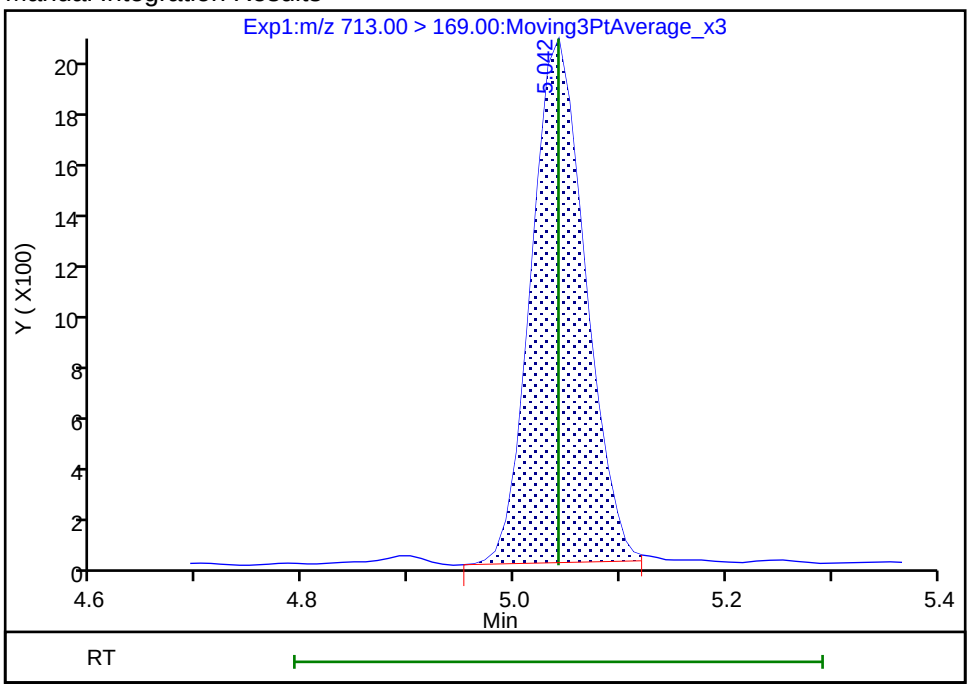
Processing Integration Results

RT: 5.04
Area: 7003
Amount: 0.045408
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 7085
Amount: 0.049005
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:33:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

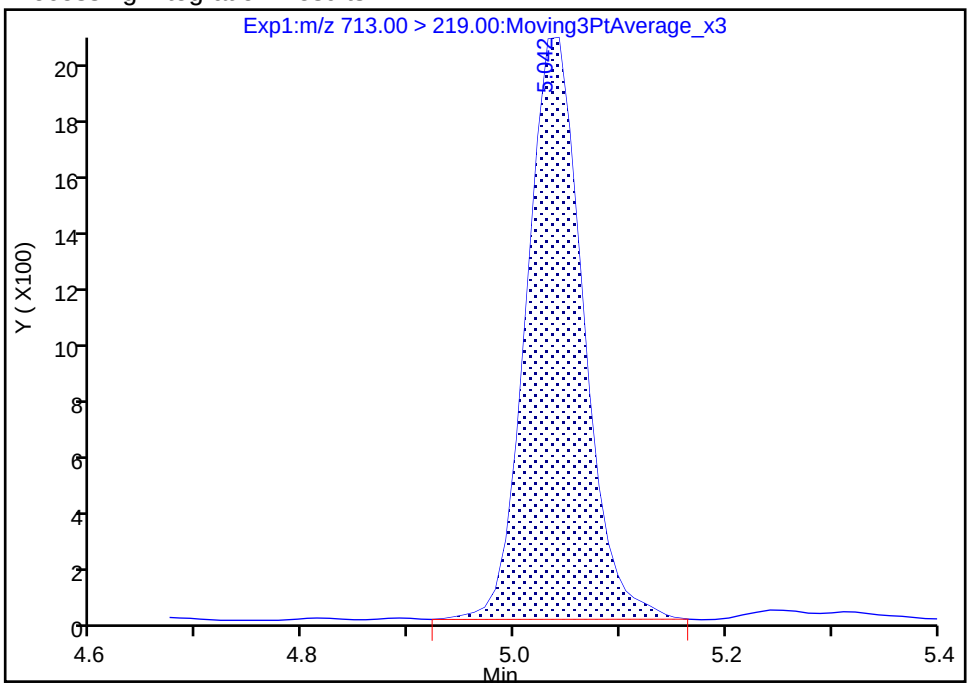
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

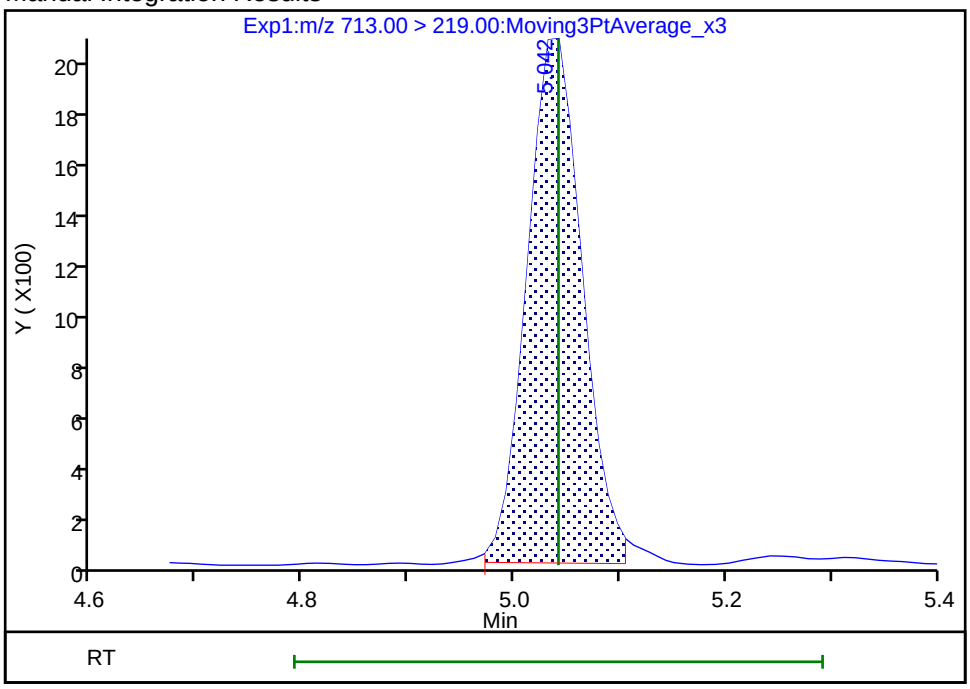
Processing Integration Results

RT: 5.04
Area: 7575
Amount: 0.045408
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 7364
Amount: 0.049005
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:33:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

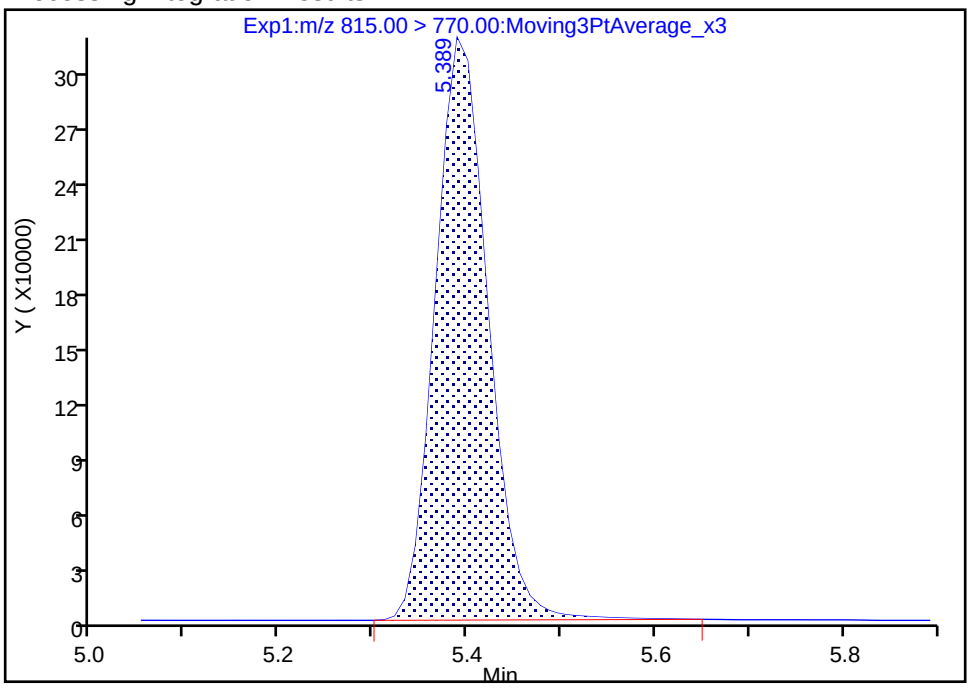
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

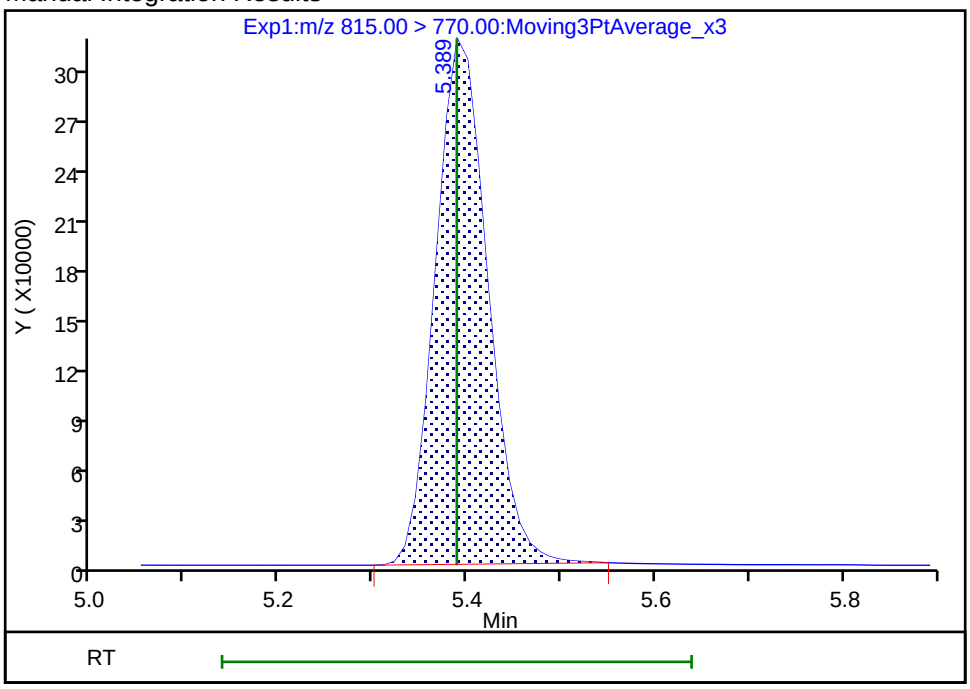
Processing Integration Results

RT: 5.39
Area: 1215519
Amount: 1.322686
Amount Units: ng/ml



Manual Integration Results

RT: 5.39
Area: 1204588
Amount: 1.251670
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:35:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

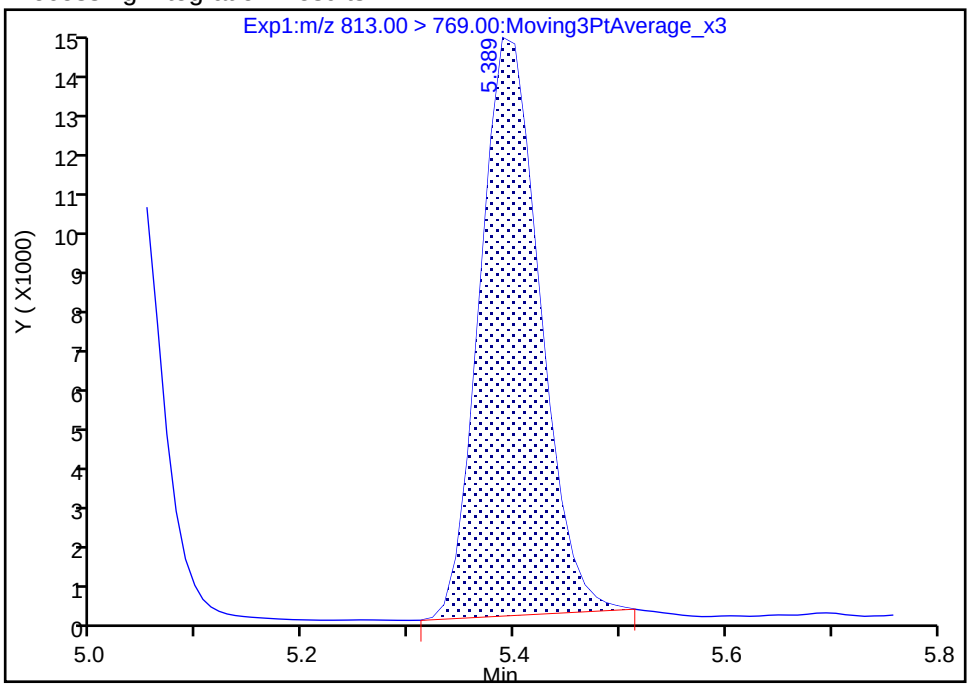
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

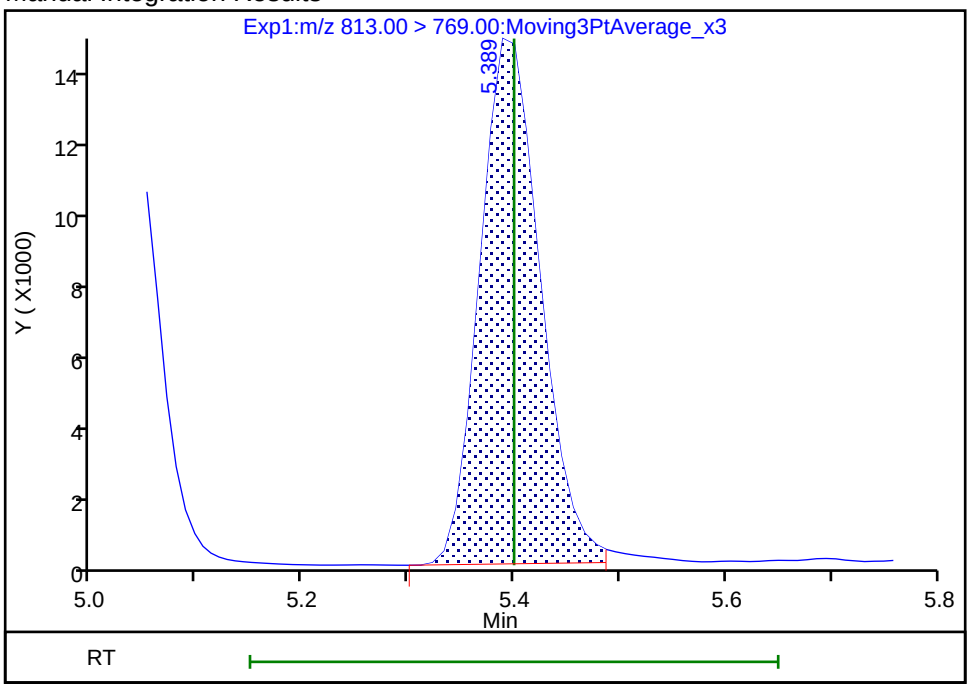
Processing Integration Results

RT: 5.39
Area: 54475
Amount: 0.034498
Amount Units: ng/ml



Manual Integration Results

RT: 5.39
Area: 55148
Amount: 0.045154
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:34:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

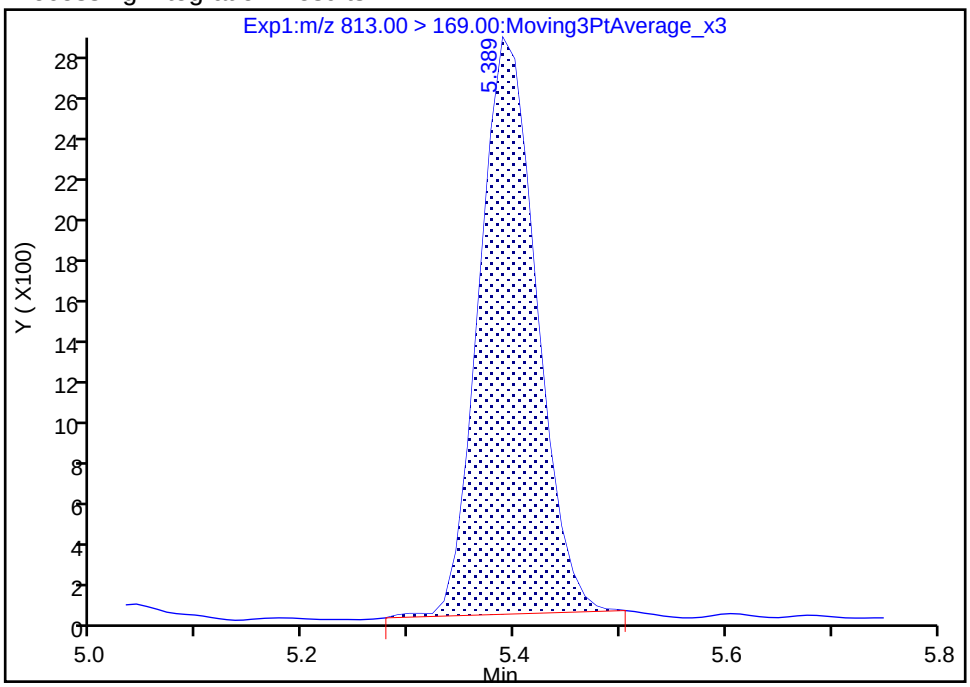
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

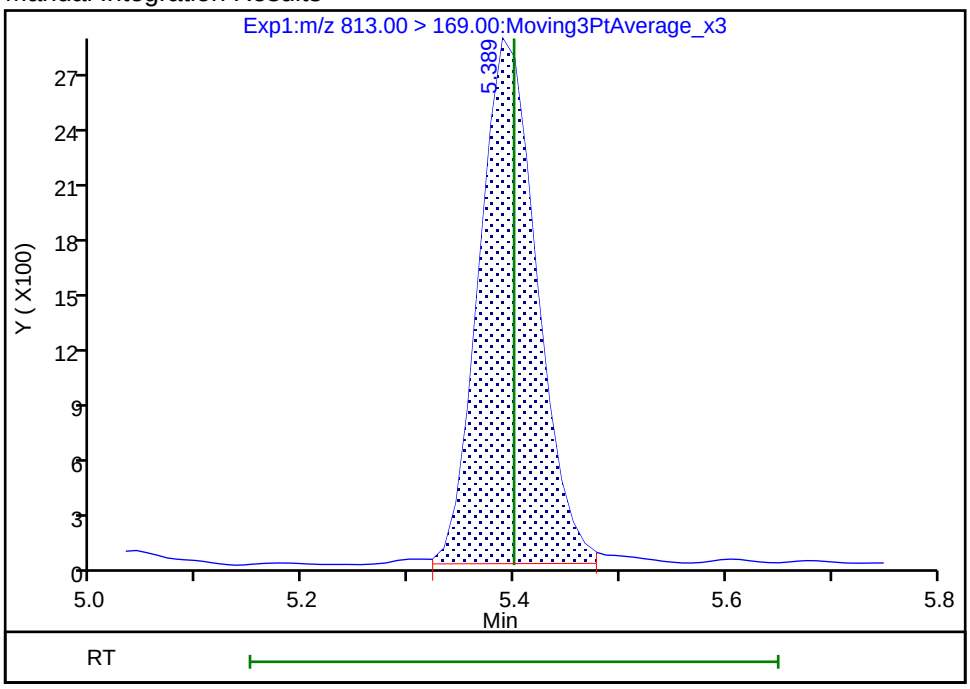
Processing Integration Results

RT: 5.39
Area: 10686
Amount: 0.034498
Amount Units: ng/ml



Manual Integration Results

RT: 5.39
Area: 10846
Amount: 0.045154
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:35:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

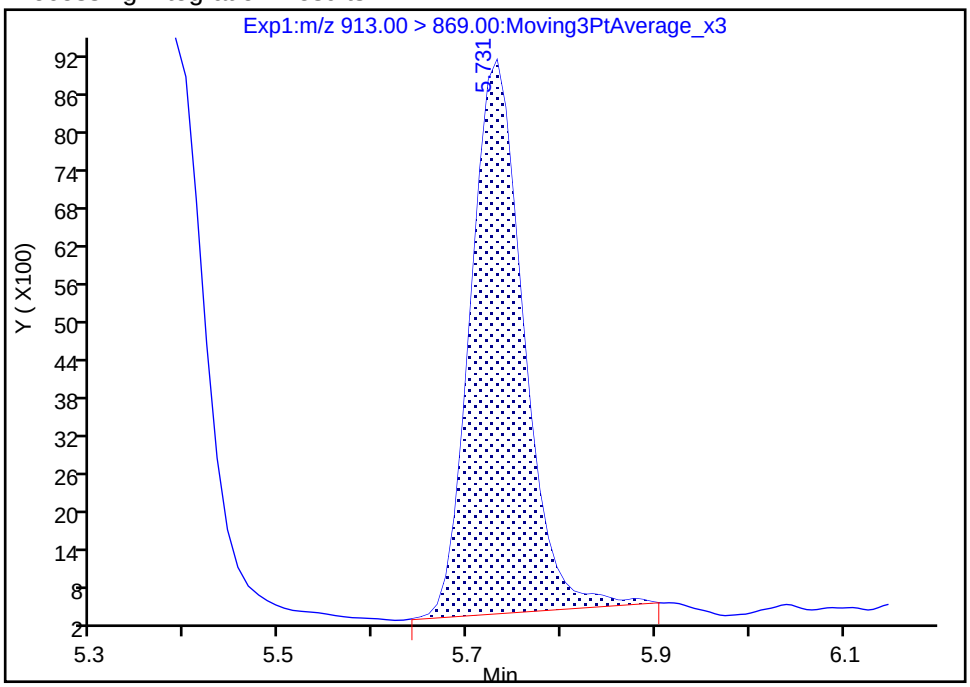
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

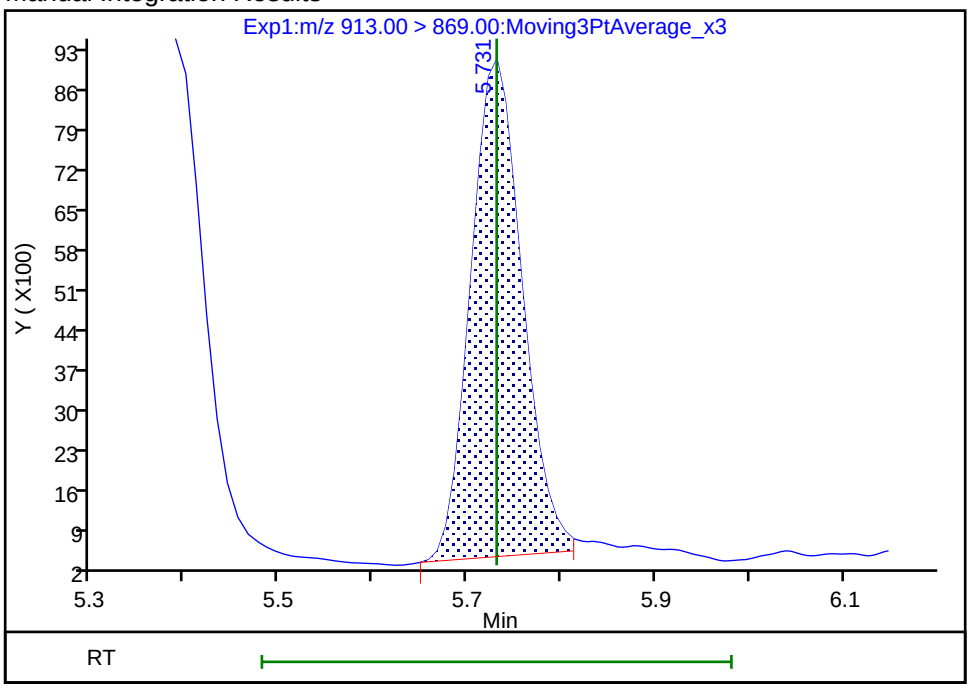
Processing Integration Results

RT: 5.73
Area: 34414
Amount: 0.045703
Amount Units: ng/ml



Manual Integration Results

RT: 5.73
Area: 33231
Amount: 0.049501
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:35:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

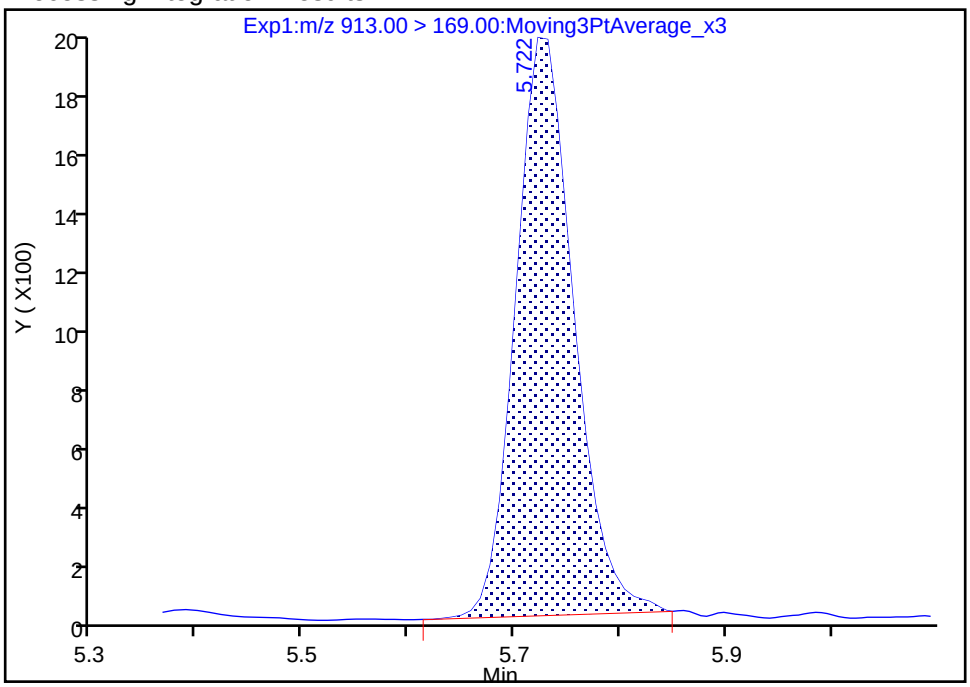
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL05.d
Injection Date: 05-May-2022 15:13:34 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

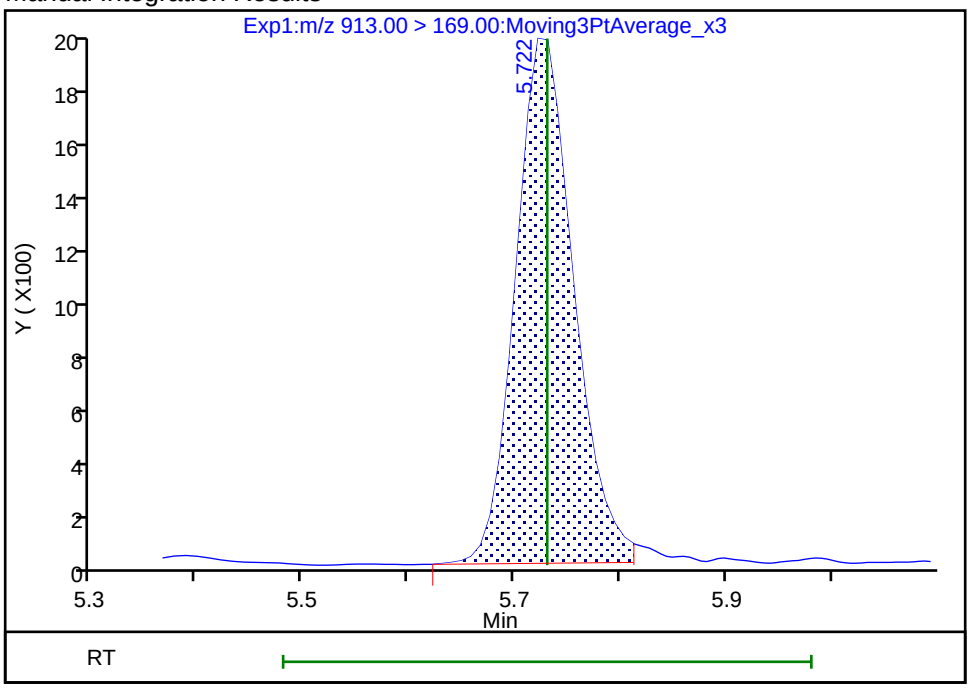
Processing Integration Results

RT: 5.72
Area: 7206
Amount: 0.045703
Amount Units: ng/ml



Manual Integration Results

RT: 5.72
Area: 7233
Amount: 0.049501
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:35:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 05-May-2022 15:21:46 ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 200-0050718-006 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 05-May-2022 16:22:04 Calib Date: 05-May-2022 15:54:29
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1631

First Level Reviewer: deannd Date: 05-May-2022 15:44:10
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.094	2.102	-0.008	1.000	140836	0.1027		103	31.4	M
D 1 13C4 PFBA										M
217.00 > 172.00	2.094	2.102	-0.008	0.599	1815696	1.25		100	6851	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.418	2.413	0.005	0.692	1384459	1.25		100	3217	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.418	2.413	0.005	1.000	117429	0.1040		104	6.6	M
D 47 13C3 PFBS										
301.90 > 80.00	2.431	2.427	0.004	0.695	1851461	1.15		99.2	329077	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.431	2.440	-0.009	1.000	155442	0.0895	Target=2.18	101	218	
298.90 > 99.00	2.431	2.440	-0.009	1.000	71865		2.16(1.09-3.27)	101	44.6	
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.733	2.738	-0.005	1.000	33986	0.1030		110	467	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.733	2.738	-0.005	0.782	153457	1.16		99.0	170	M
D 7 13C2 PFHxA										M
315.00 > 270.00	2.769	2.774	-0.005	0.792	1399164	1.24		98.9	2071	M
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.769	2.774	-0.005	1.000	127402	0.1055	Target=12.96	105	18.9	M
313.00 > 119.00	2.769	2.774	-0.005	1.000	10869		11.72(6.48-19.44)	105	8.6	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.769	2.774	-0.005	0.882	150245	0.0968	Target=3.01	103	262	M
349.00 > 99.00	2.769	2.774	-0.005	0.882	48761		3.08(1.50-4.51)	103	88.3	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.879	2.884	-0.005	0.823	236016	1.22		97.5	1722	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.879	2.884	-0.005	1.000	21970	0.1066		107	322	M
D 11 18O2 PFHxS										M
403.00 > 84.00	3.138	3.132	0.006	0.898	1485765	1.18		100	1502	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.138	3.132	0.006	1.000	131294	0.0945	Target=3.51	104	270	M
399.00 > 99.00	3.138	3.132	0.006	1.000	38917		3.37(1.76-5.27)	104	48.2	M
D 9 13C4 PFHpA										M
367.00 > 322.00	3.138	3.143	-0.005	0.898	1574522	1.29		103	1684	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.138	3.143	-0.005	1.000	127791	0.1004	Target=3.71	100	32.4	M
363.00 > 169.00	3.138	3.143	-0.005	1.000	33571		3.81(1.86-5.57)	100	44.7	
77 DONA										M
377.00 > 251.00	3.171	3.176	-0.005	0.833	307811	0.0996	Target=2.68	106	387	M
377.00 > 85.00	3.171	3.176	-0.005	0.833	115171		2.67(1.34-4.03)	106	258	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.479	3.482	-0.003	0.913	117549	0.1011	Target=5.10	106	413	
449.00 > 99.00	3.479	3.482	-0.003	0.913	21901		5.37(2.55-7.66)	106	84.9	M
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.479	3.482	-0.003	1.000	38649	0.0954		101	57.8	
D 12 M2-6:2 FTS										M
429.00 > 81.00	3.479	3.482	-0.003	0.995	243778	1.19		100	421	M
D 14 13C4 PFOA										M
417.00 > 372.00	3.496	3.491	0.005	1.000	1629748	1.27		102	2649	M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.496	3.500	-0.004	1.000	152395	0.1044	Target=2.75	104	20.3	M
413.00 > 169.00	3.496	3.500	-0.004	1.000	53894		2.83(1.37-4.12)	104	150	M
* 62 13C2 PFOA										M
415.00 > 370.00	3.496	3.500	-0.004		1705031	1.25			1709	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.808	3.812	-0.004	1.000	103222	0.0999	Target=4.70	108	105	M
499.00 > 99.00	3.808	3.812	-0.004	1.000	21941		4.70(2.35-7.05)	108	88.5	M
D 18 13C4 PFOS										
503.00 > 80.00	3.808	3.812	-0.004	1.089	1156161	1.17		98.1	4802	
D 19 13C5 PFNA										M
468.00 > 423.00	3.830	3.834	-0.004	1.095	1716741	1.23		98.4	1934	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.830	3.834	-0.004	1.000	135136	0.1017	Target=7.93	102	18.5	
463.00 > 169.00	3.830	3.834	-0.004	1.000	18061		7.48(3.97-11.90)	102	117	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.968	3.978	-0.010	1.042	165943	0.0972		104	445	M
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.103	4.104	-0.001	1.077	79971	0.1022	Target=2.53	106	632	
549.00 > 99.00	4.103	4.104	-0.001	1.077	30388		2.63(1.26-3.79)	106	135	M
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.126	4.127	-0.001	1.000	153848	0.1064	Target=9.72	106	80.8	
513.00 > 169.00	4.126	4.127	-0.001	1.000	15066		10.21(4.86-14.57)	106	108	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										M
515.00 > 470.00	4.126	4.138	-0.012	1.180	1696948	1.26		101	1213	M
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.137	4.138	-0.001	1.000	25648	0.0907		94.7	478	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.137	4.138	-0.001	1.183	304283	1.24		103	1031	
D 21 13C8 FOSA										M
506.00 > 78.00	4.194	4.196	-0.002	1.200	1793869	1.21		97.1	2043	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.194	4.207	-0.013	1.000	151919	0.1043		104	507	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.272	4.273	-0.001	1.222	212896	1.19		95.5	906	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.272	4.273	-0.001	1.000	15705	0.1014		101	65.1	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.363	4.376	-0.013	1.146	62843	0.1053	Target=2.47	109	598	
599.00 > 99.00	4.363	4.376	-0.013	1.146	26766		2.35(1.23-3.70)	109	287	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.397	4.399	-0.002	1.000	111834	0.0948	Target=9.24	94.8	78.6	M
563.00 > 169.00	4.397	4.399	-0.002	1.000	11827		9.46(4.62-13.87)	94.8	144	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.397	4.399	-0.002	1.258	1431508	1.33		106	2560	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.397	4.410	-0.013	1.258	220474	1.27		101	1311	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.409	4.410	-0.001	1.003	16891	0.1021		102	124	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.490	4.504	-0.014	1.179	227295	0.0962		102	949	
D 36 13C2 PFDoA										
615.00 > 570.00	4.621	4.633	-0.012	1.322	1441679	1.25		100	2575	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.632	4.633	-0.001	1.002	125791	0.1057	Target=7.29	106	19.7	
613.00 > 169.00	4.632	4.633	-0.001	1.002	17016		7.39(3.64-10.93)	106	188	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.642	4.653	-0.011	1.122	14280	0.1015		105	351	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.802	4.812	-0.010	1.261	26987	0.0995	Target=0.54	103	778	
699.00 > 99.00	4.802	4.812	-0.010	1.261	49734		0.54(0.27-0.81)	103	499	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.847	4.848	-0.001	1.049	104704	0.1033	Target=4.74	103	20.3	M
663.00 > 169.00	4.847	4.848	-0.001	1.049	21096		4.96(2.37-7.10)	103	219	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.031	5.042	-0.011	1.000	14521	0.1056	Target=0.99	106	255	M
713.00 > 219.00	5.031	5.042	-0.011	1.000	16002		0.91(0.49-1.48)	106	196	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.031	5.042	-0.011	1.439	1112193	1.18		94.5	2133	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.388	5.388	0.0	1.541	1228255	1.26		101	1367	M
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.388	5.400	-0.012	1.000	103574	0.1001	Target=4.87	100	22.6	M
813.00 > 169.00	5.388	5.400	-0.012	1.000	22234		4.66(2.43-7.30)	100	312	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.721	5.731	-0.010	1.062	66537	0.0972	Target=4.95	97.2	19.6	M
913.00 > 169.00	5.721	5.731	-0.010	1.062	12850		5.18(2.47-7.42)	97.2	142	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

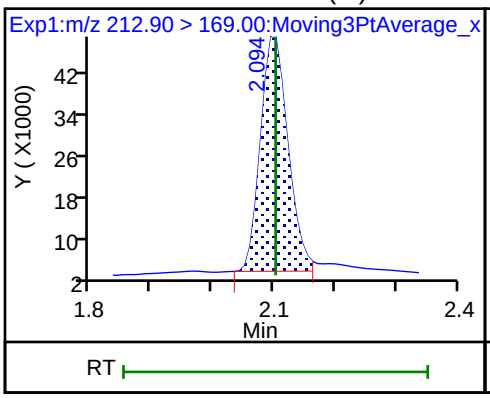
PFAS32NCIC2_00010 Amount Added: 100.00 Units: uL

Report Date: 05-May-2022 16:22:05 Chrom Revision: 2.3 02-May-2022 18:31:28

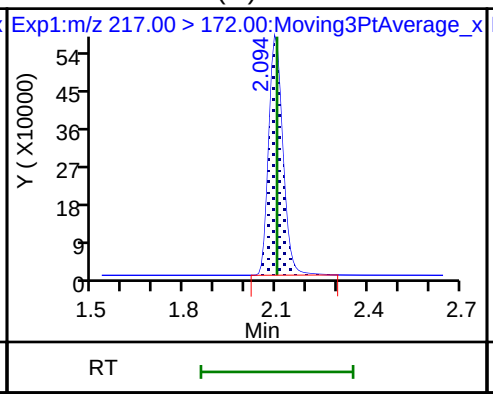
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL

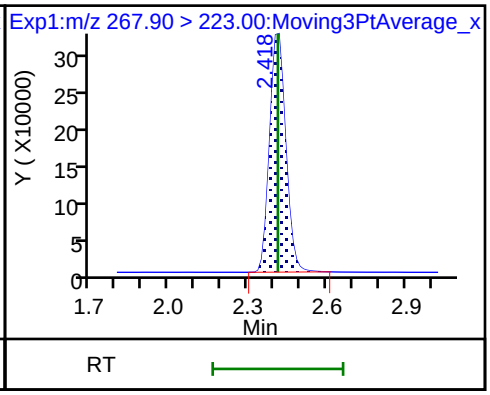
2 Perfluorobutanoic acid (M)



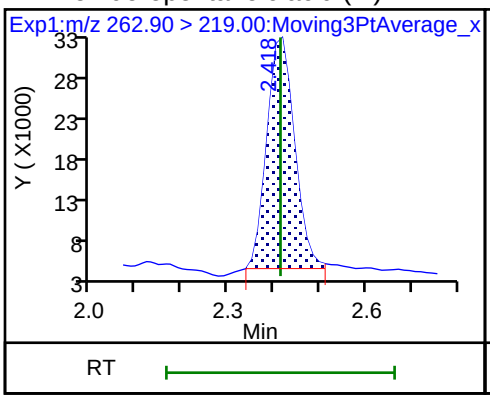
D 1 13C4 PFBA (M)



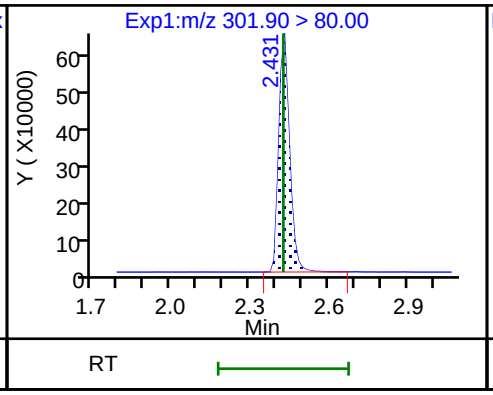
D 3 13C5 PFPeA



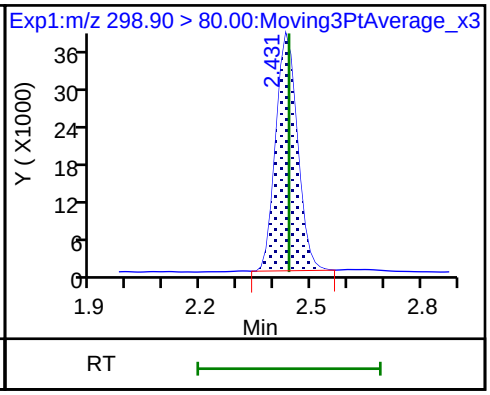
4 Perfluoropentanoic acid (M)



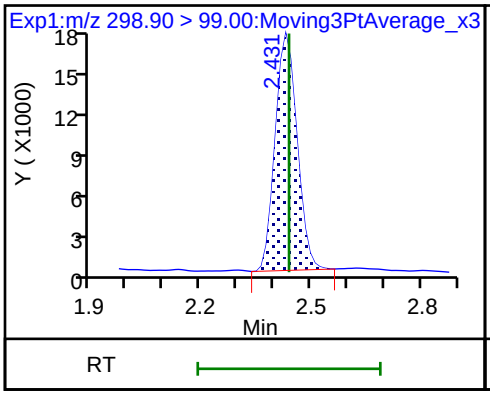
D 47 13C3 PFBS



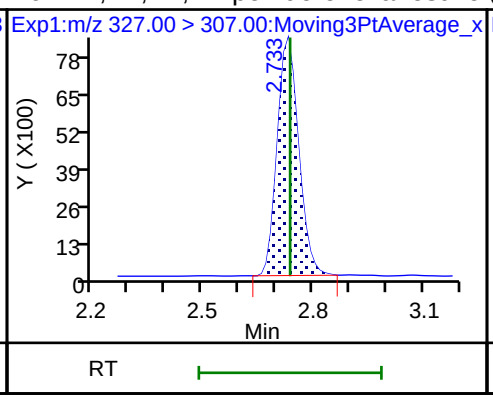
5 Perfluorobutanesulfonic acid



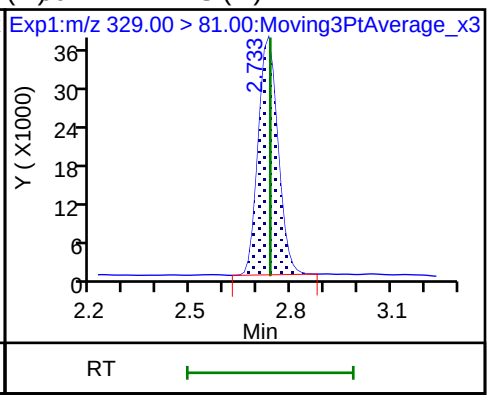
5 Perfluorobutanesulfonic acid



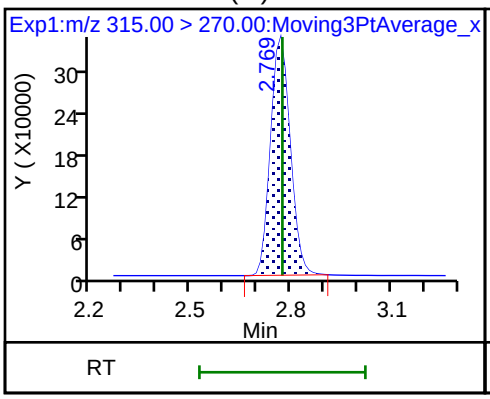
61 1H,1H,2H,2H-perfluorohexanesulfo (M)



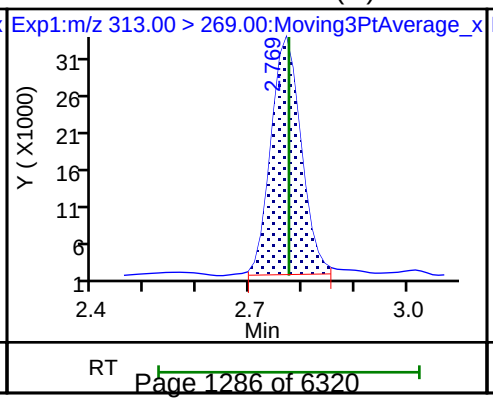
60 M2-4:2 FTS (M)



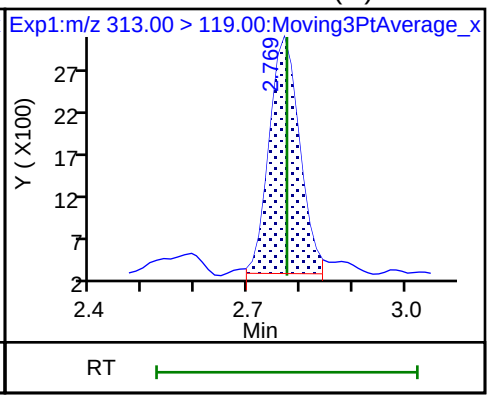
D 7 13C2 PFHxA (M)



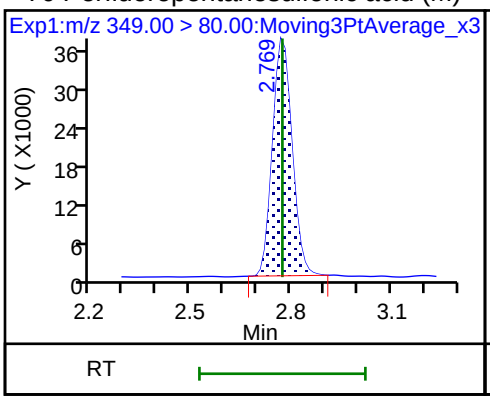
6 Perfluorohexanoic acid (M)



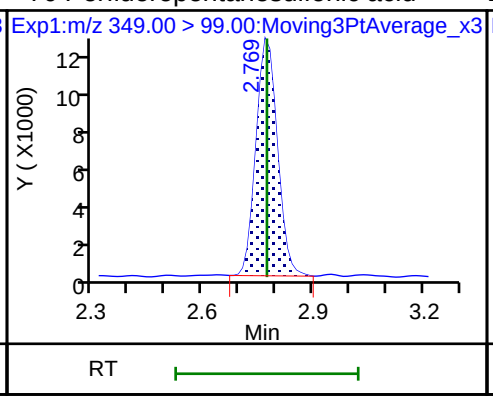
6 Perfluorohexanoic acid (M)



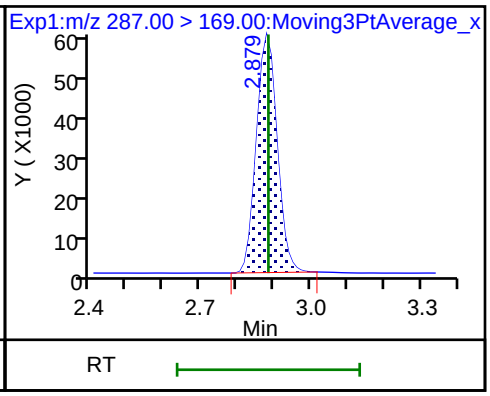
70 Perfluoropentanesulfonic acid (M)



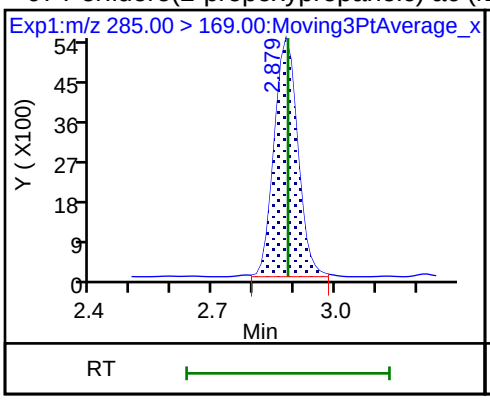
70 Perfluoropentanesulfonic acid



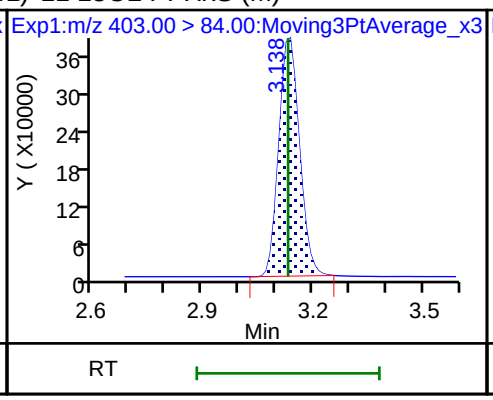
D 64 13C3 HFPO-DA



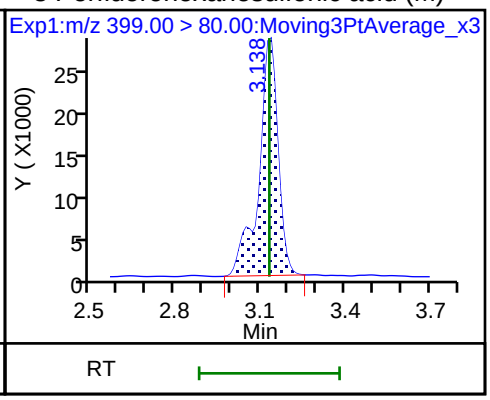
67 Perfluoro(2-propoxypropanoic) ac (M)



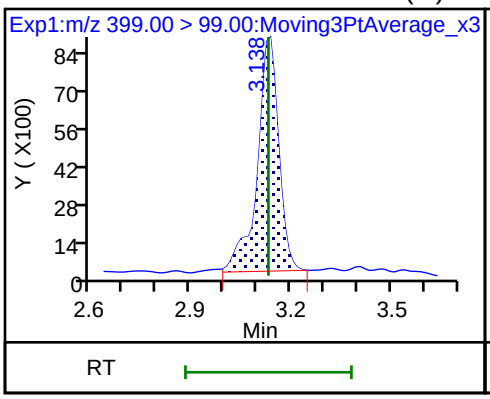
D 11 18O2 PFHxS (M)



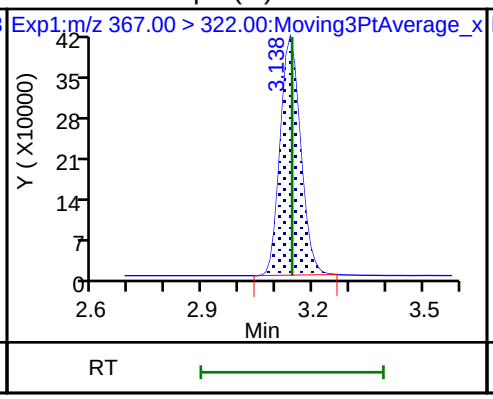
8 Perfluorohexanesulfonic acid (M)



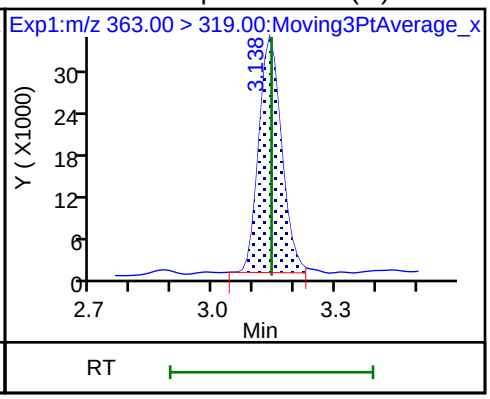
8 Perfluorohexanesulfonic acid (M)



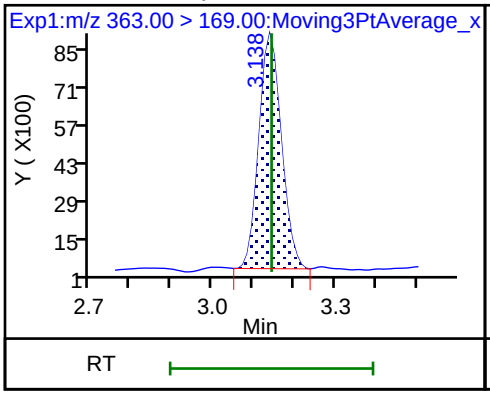
D 9 13C4 PFHpA (M)



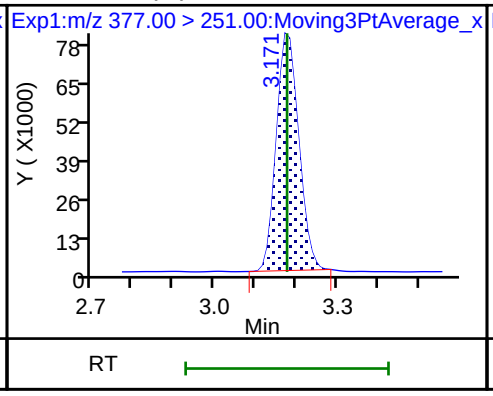
10 Perfluoroheptanoic acid (M)



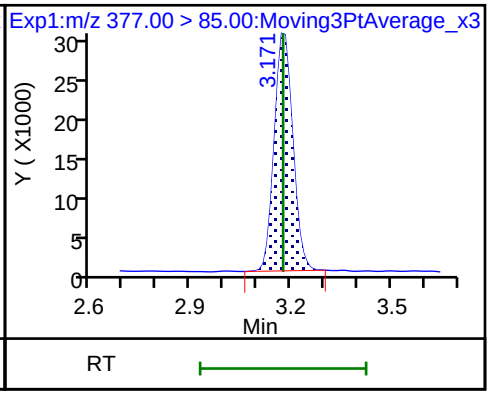
10 Perfluoroheptanoic acid



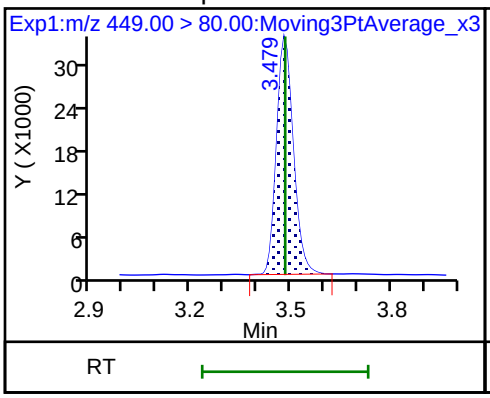
77 DONA (M)



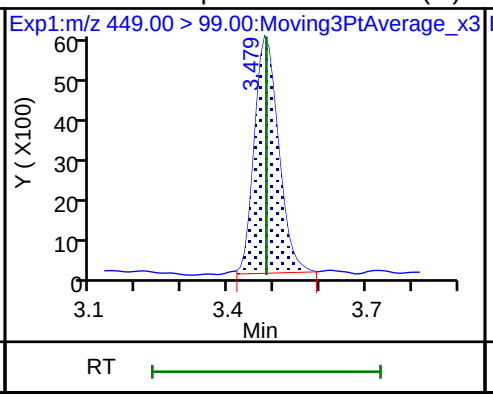
77 DONA



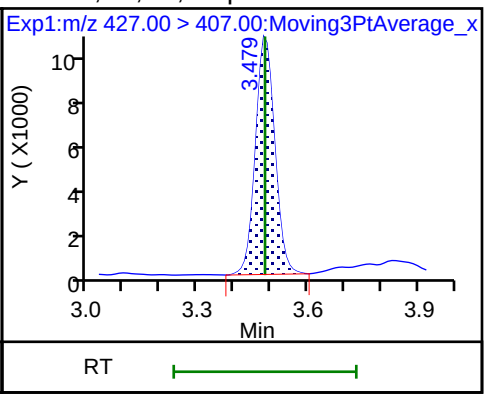
16 Perfluoroheptanesulfonic acid



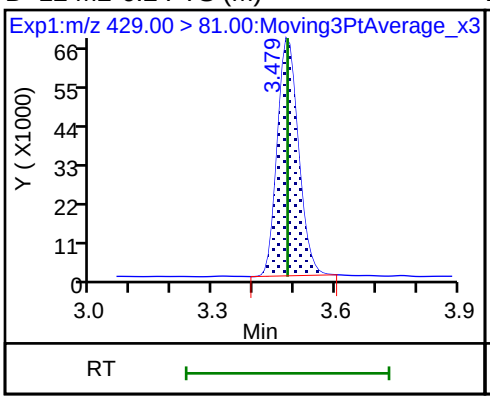
16 Perfluoroheptanesulfonic acid (M)



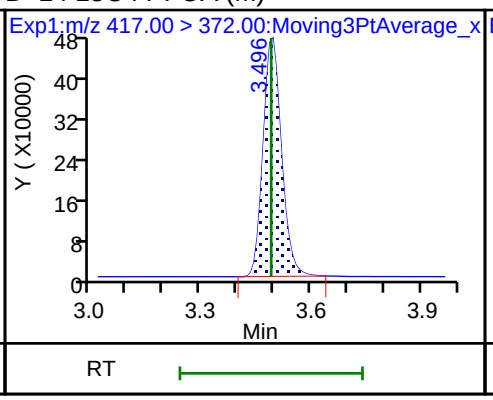
13 1H,1H,2H,2H-perfluorooctanesulfo



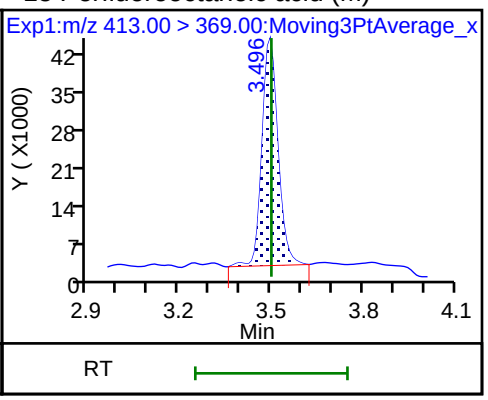
D 12 M2-6:2 FTS (M)



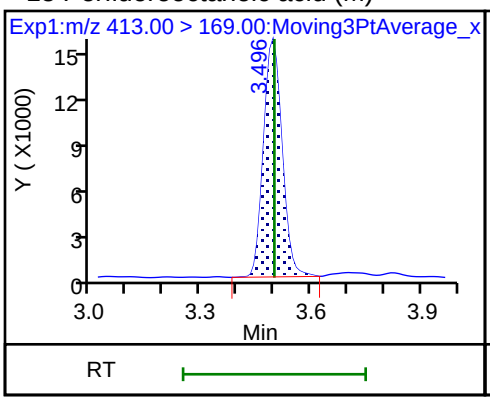
D 14 13C4 PFOA (M)



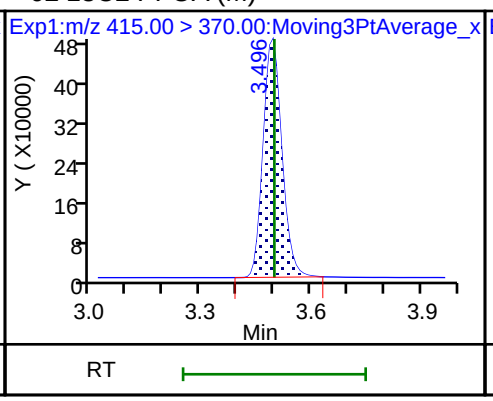
15 Perfluorooctanoic acid (M)



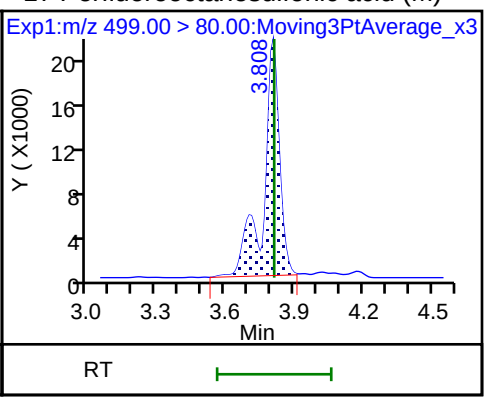
15 Perfluorooctanoic acid (M)



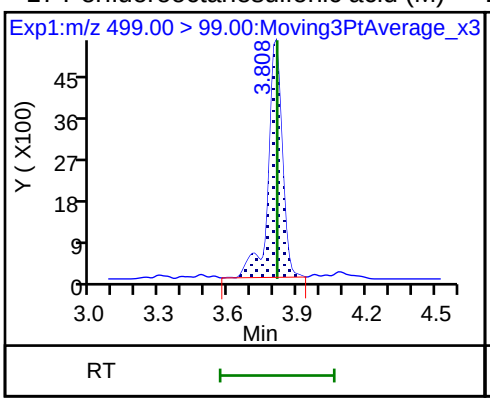
* 62 13C2 PFOA (M)



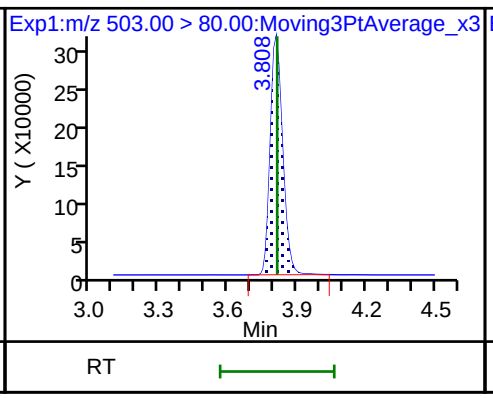
17 Perfluorooctanesulfonic acid (M)



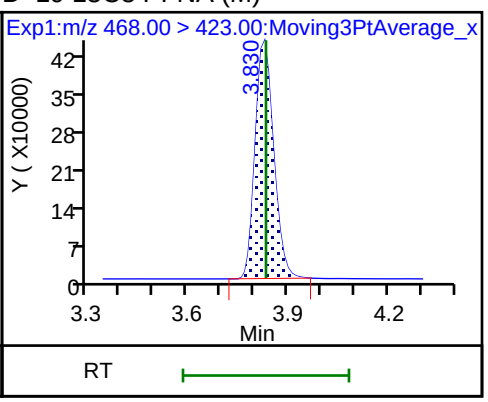
17 Perfluorooctanesulfonic acid (M)



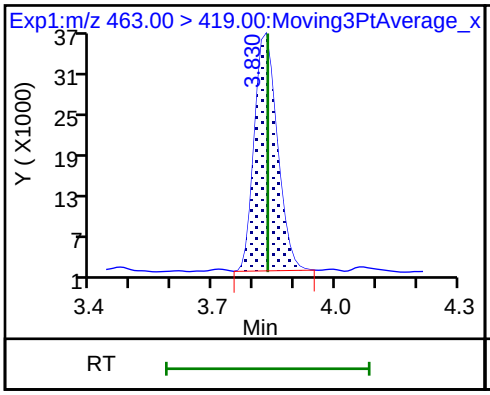
D 18 13C4 PFOS



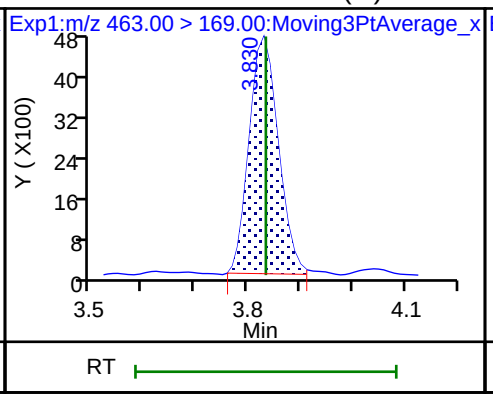
D 19 13C5 PFNA (M)



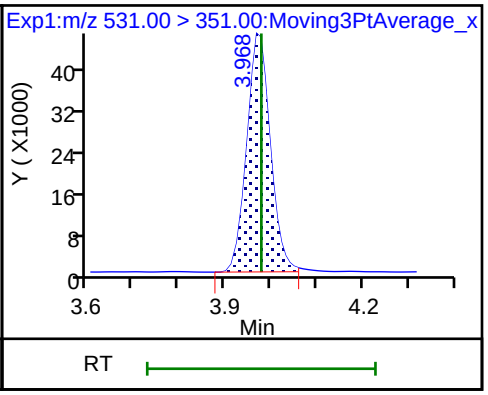
20 Perfluorononanoic acid



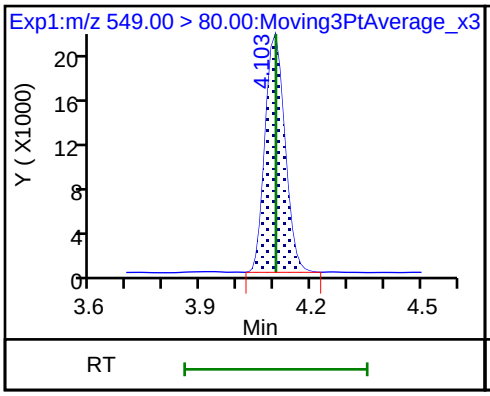
20 Perfluorononanoic acid (M)



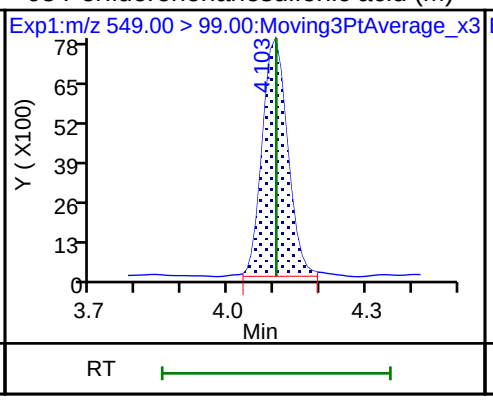
69 9-Chlorohexadecafluoro-3-oxanona (M)



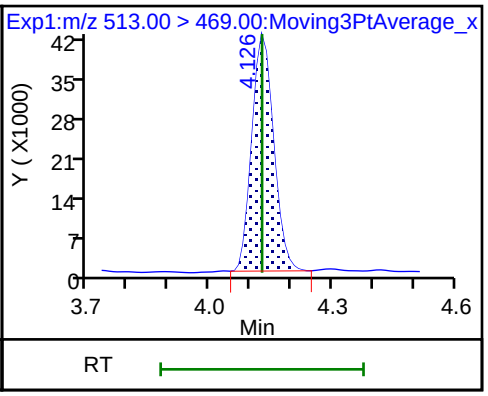
68 Perfluorononanesulfonic acid



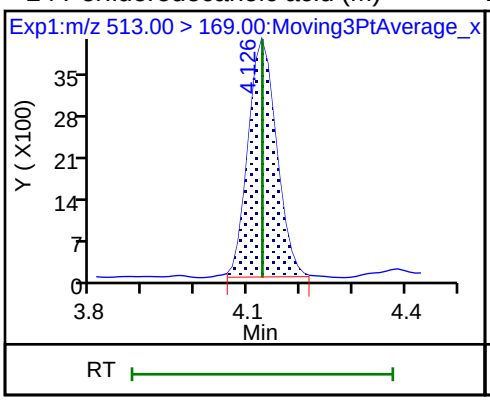
68 Perfluorononanesulfonic acid (M)



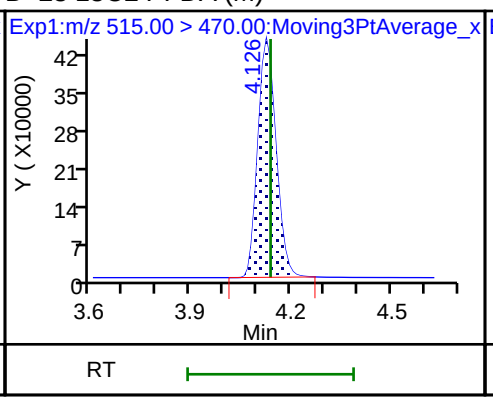
24 Perfluorodecanoic acid



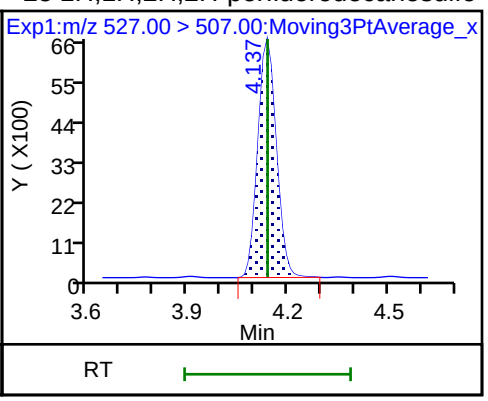
24 Perfluorodecanoic acid (M)



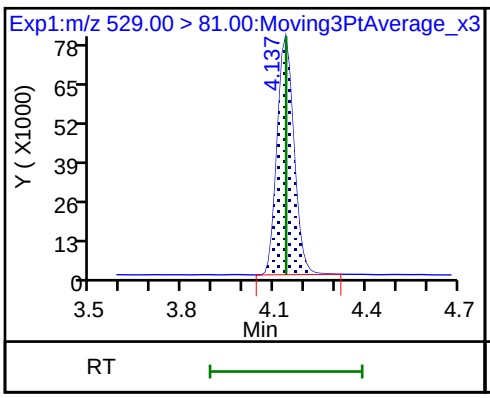
D 23 13C2 PFDA (M)



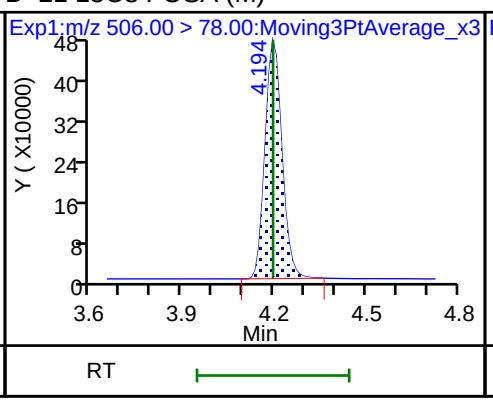
25 1H,1H,2H,2H-perfluorodecanesulfo



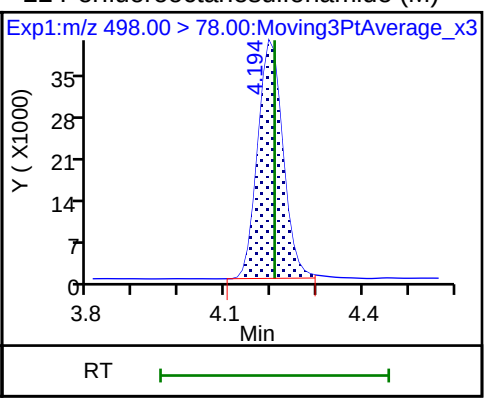
D 26 M2-8:2 FTS



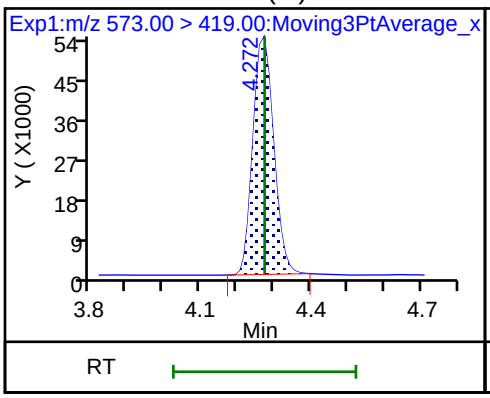
D 21 13C8 FOSA (M)



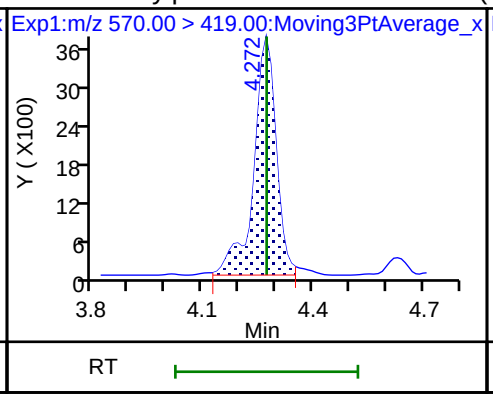
22 Perfluorooctanesulfonamide (M)



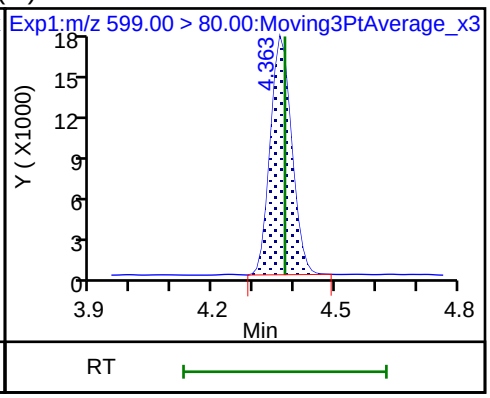
D 27 d3-NMeFOSAA (M)



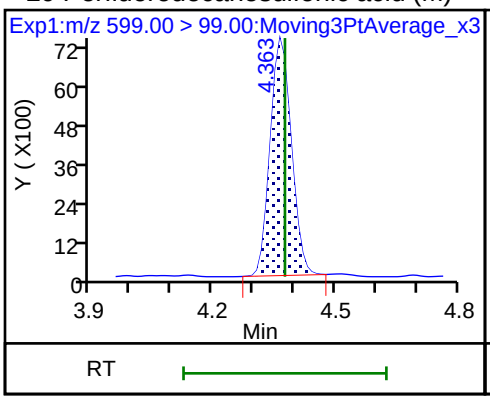
28 N-methylperfluorooctanesulfonami (M)



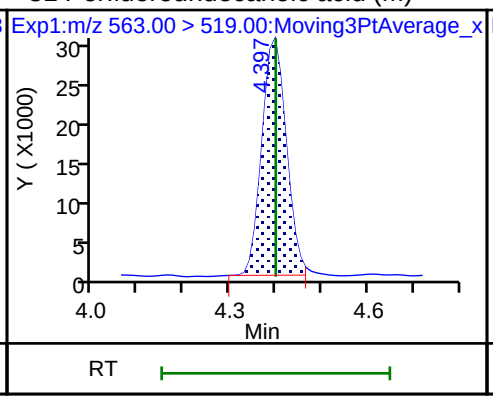
29 Perfluorodecanesulfonic acid



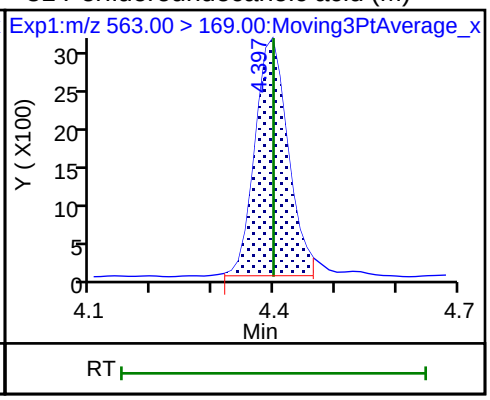
29 Perfluorodecanesulfonic acid (M)



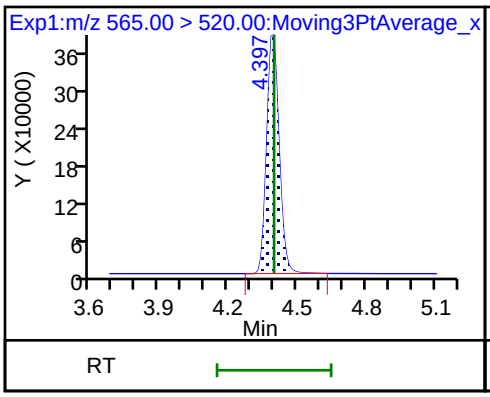
31 Perfluoroundecanoic acid (M)



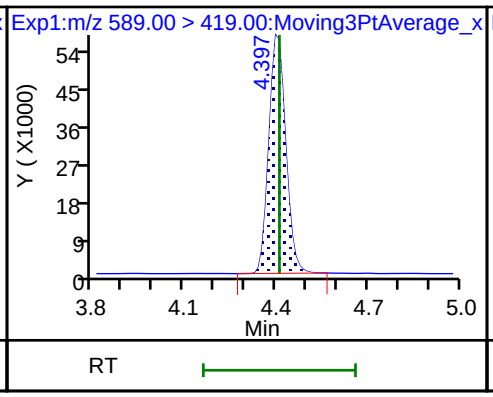
31 Perfluoroundecanoic acid (M)



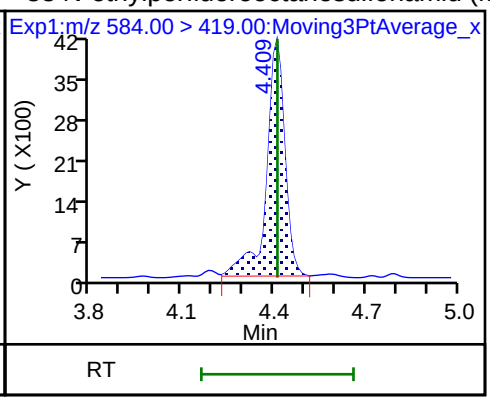
D 30 13C2 PFUnA



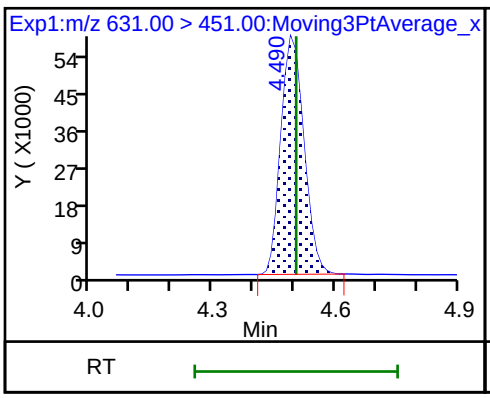
D 32 d5-NEtFOSAA



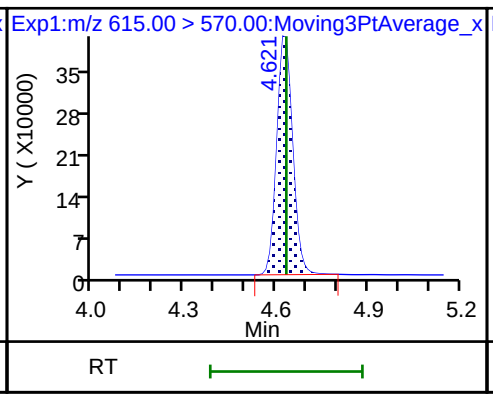
33 N-ethylperfluorooctanesulfonamid (M)



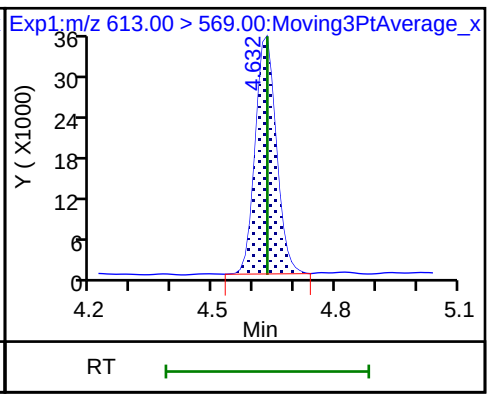
66 11-Chloroeicosafluoro-3-oxaundec



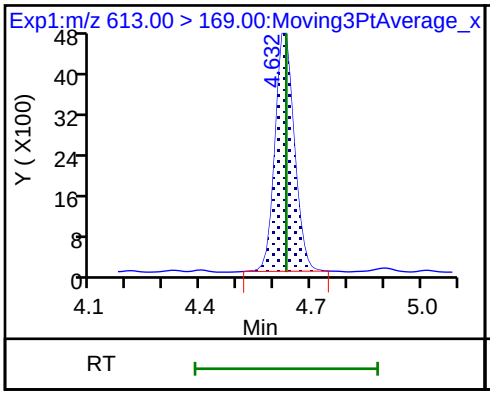
D 36 13C2 PFDoA



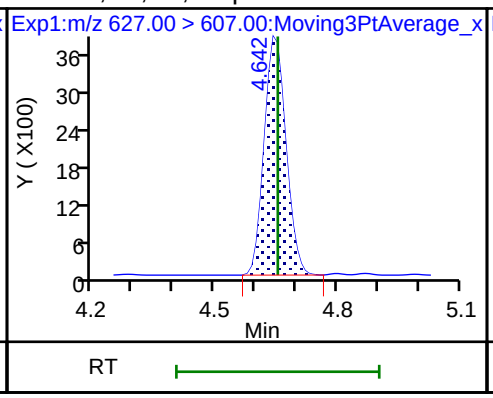
37 Perfluorododecanoic acid



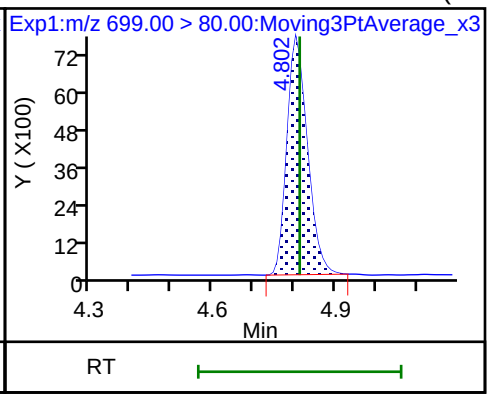
37 Perfluorododecanoic acid



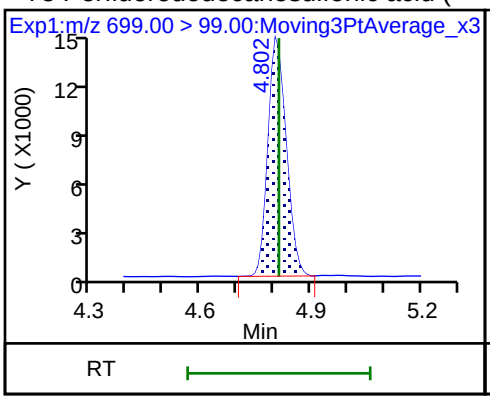
74 1H,1H,2H,2H-perfluorododecanesul



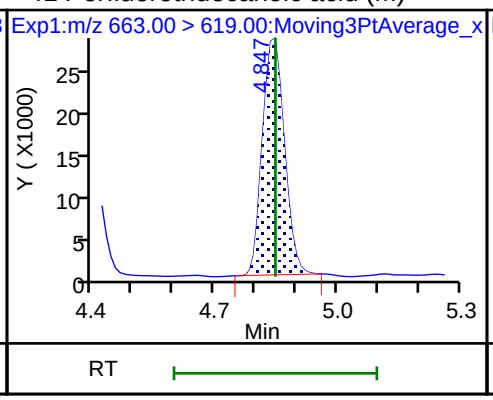
75 Perfluorododecanesulfonic acid (



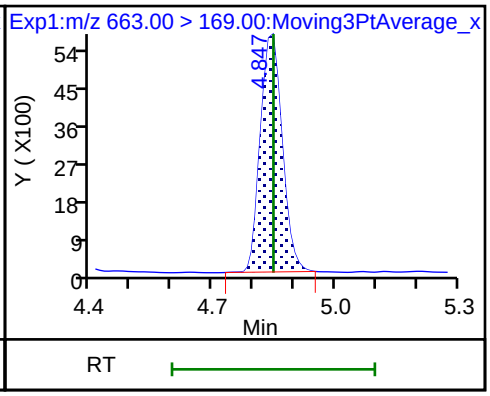
75 Perfluorododecanesulfonic acid (



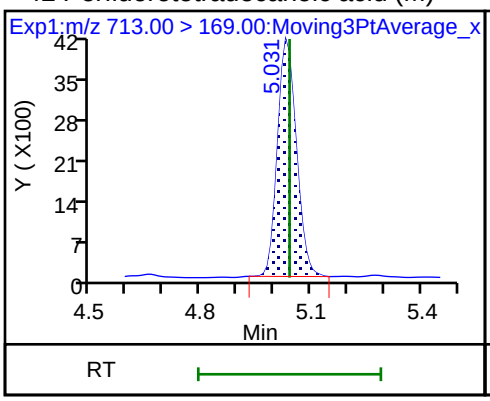
41 Perfluorotridecanoic acid (M)



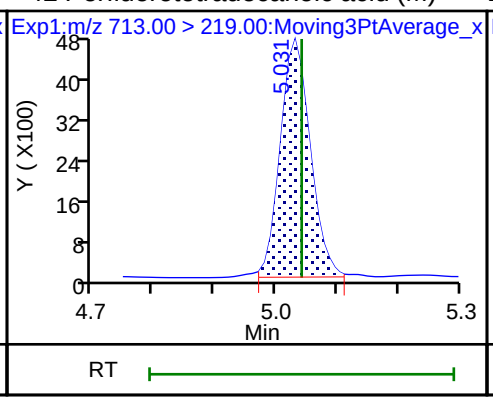
41 Perfluorotridecanoic acid



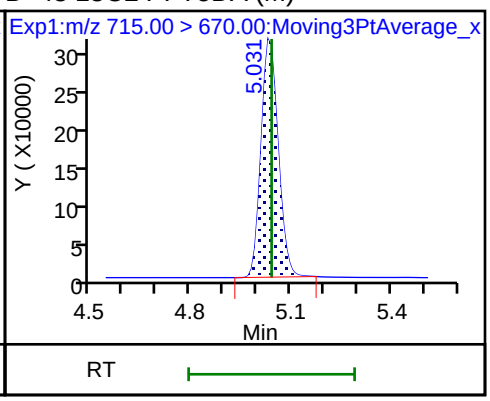
42 Perfluorotetradecanoic acid (M)



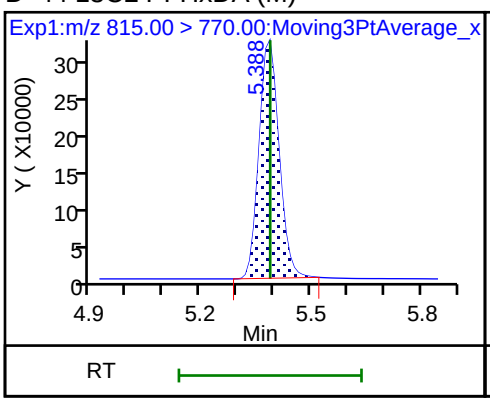
42 Perfluorotetradecanoic acid (M)



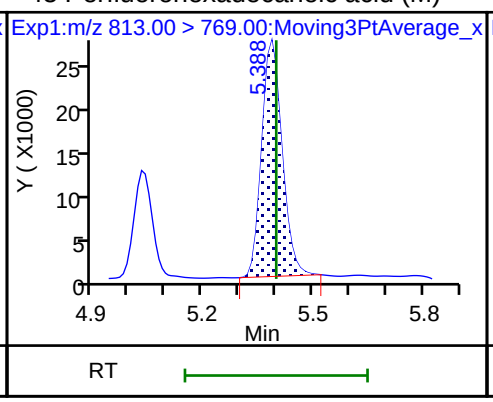
D 43 13C2 PFTeDA (M)



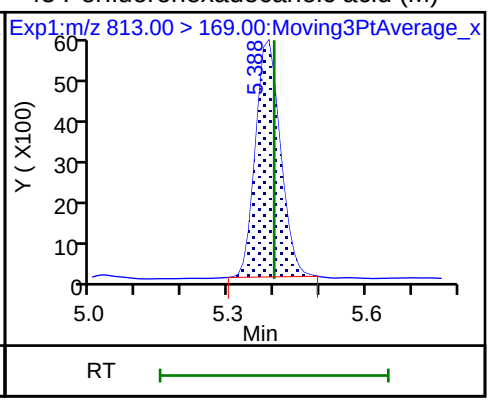
D 44 13C2 PFHxDA (M)



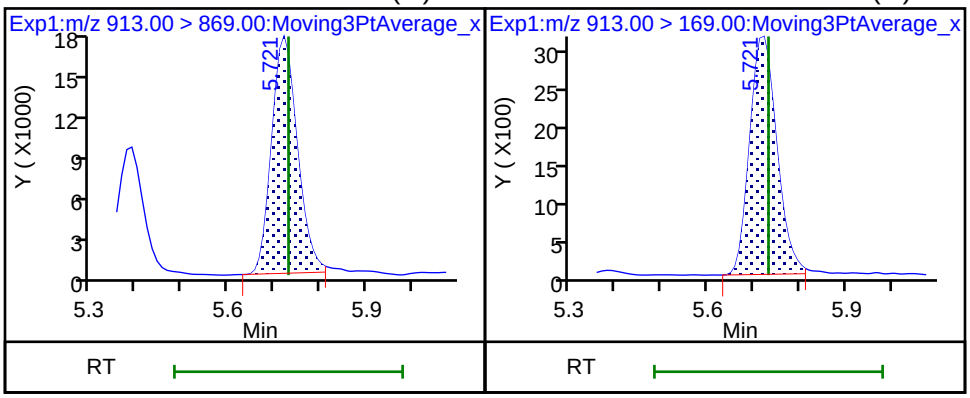
45 Perfluorohexadecanoic acid (M)



45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M) 46 Perfluorooctadecanoic acid (M)



Manual Integration/User Assign Peak Report

Eurofins Burlington

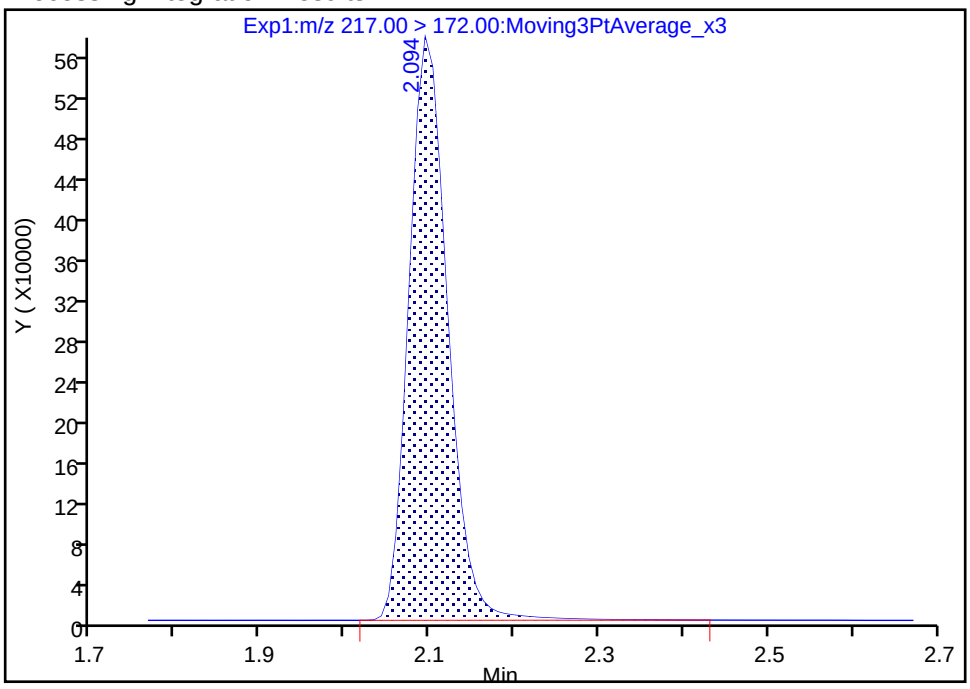
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

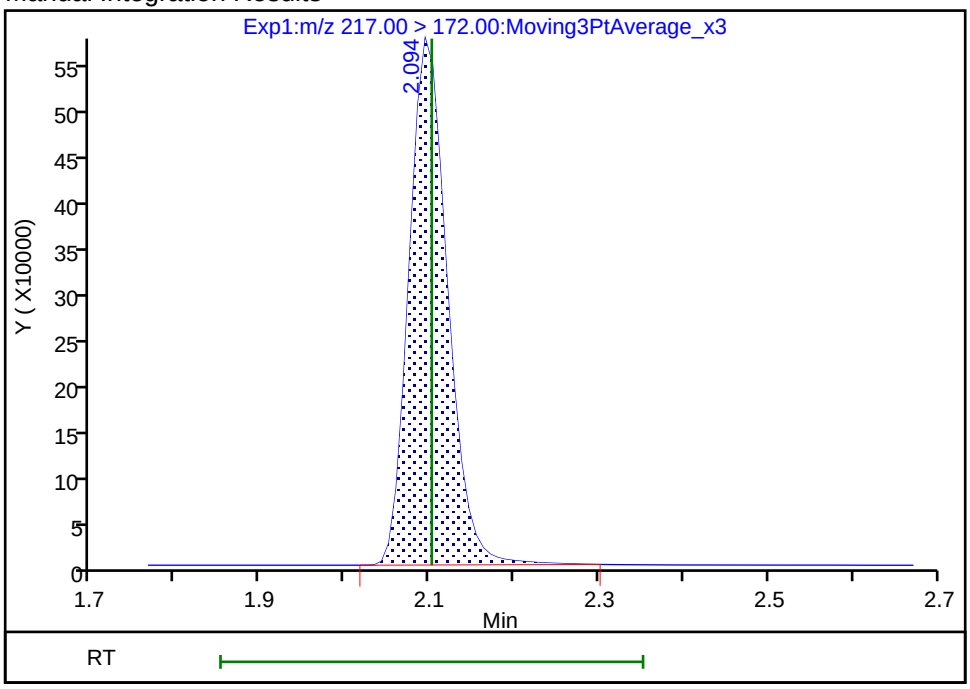
Processing Integration Results

RT: 2.09
Area: 1823143
Amount: 1.235431
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 1815696
Amount: 1.253934
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:36:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

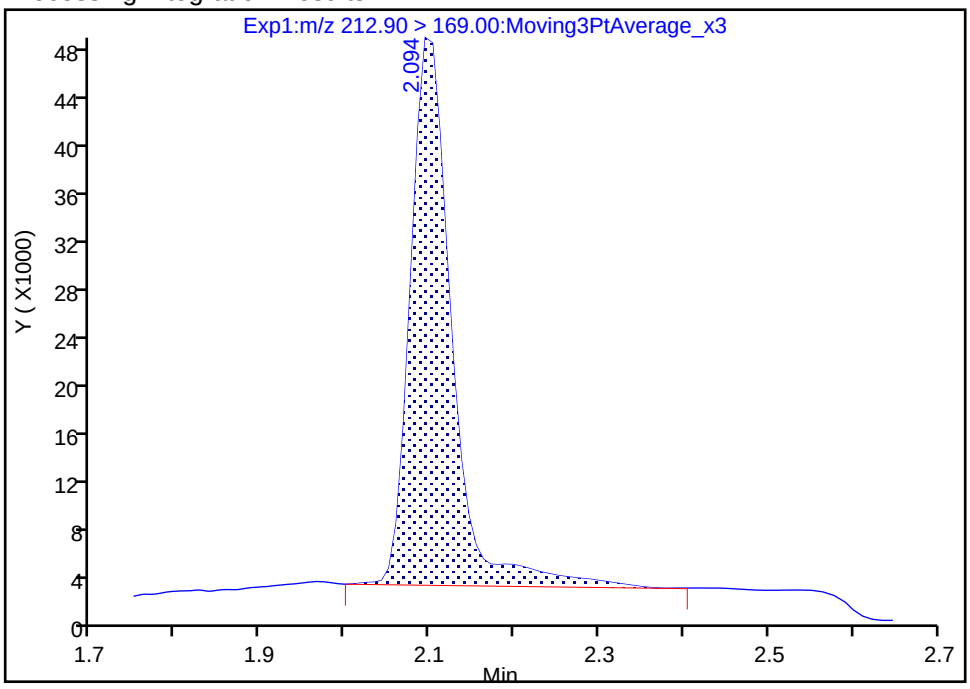
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

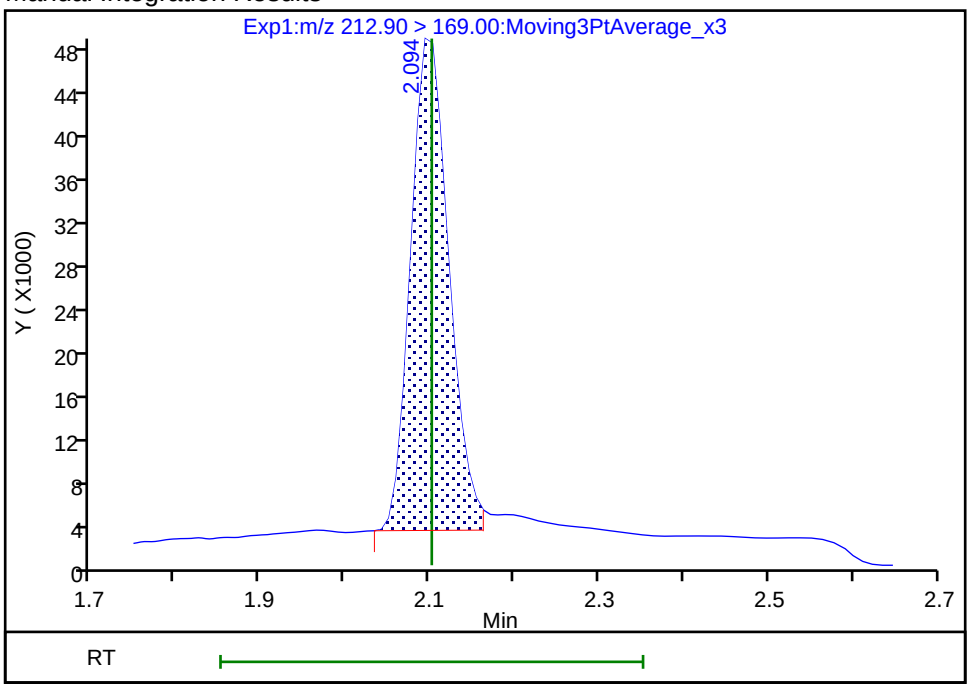
Processing Integration Results

RT: 2.09
Area: 154960
Amount: 0.107912
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 140836
Amount: 0.102742
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:36:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

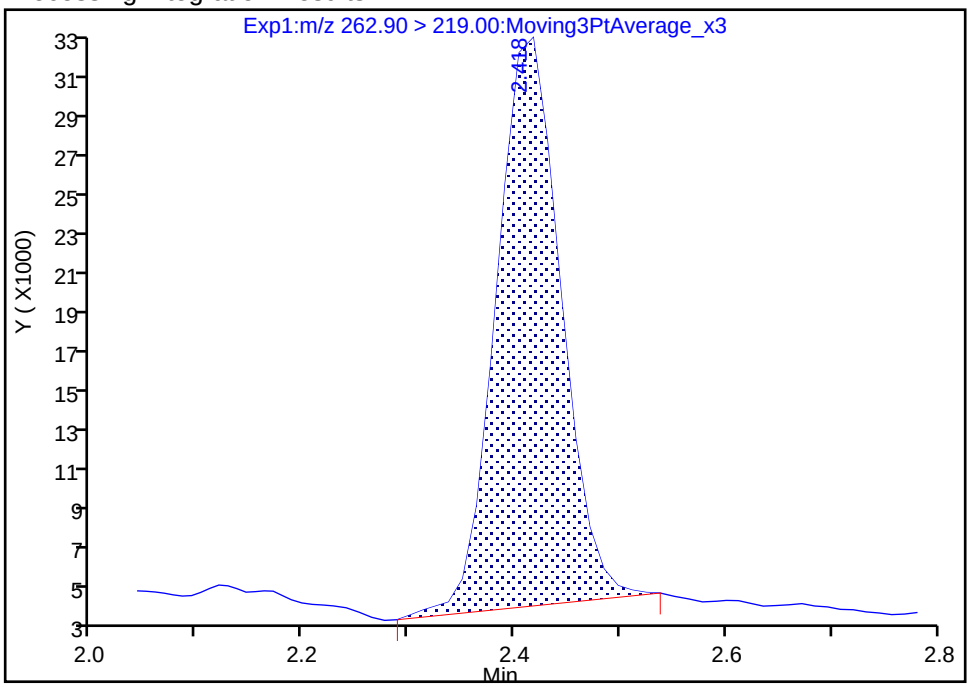
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

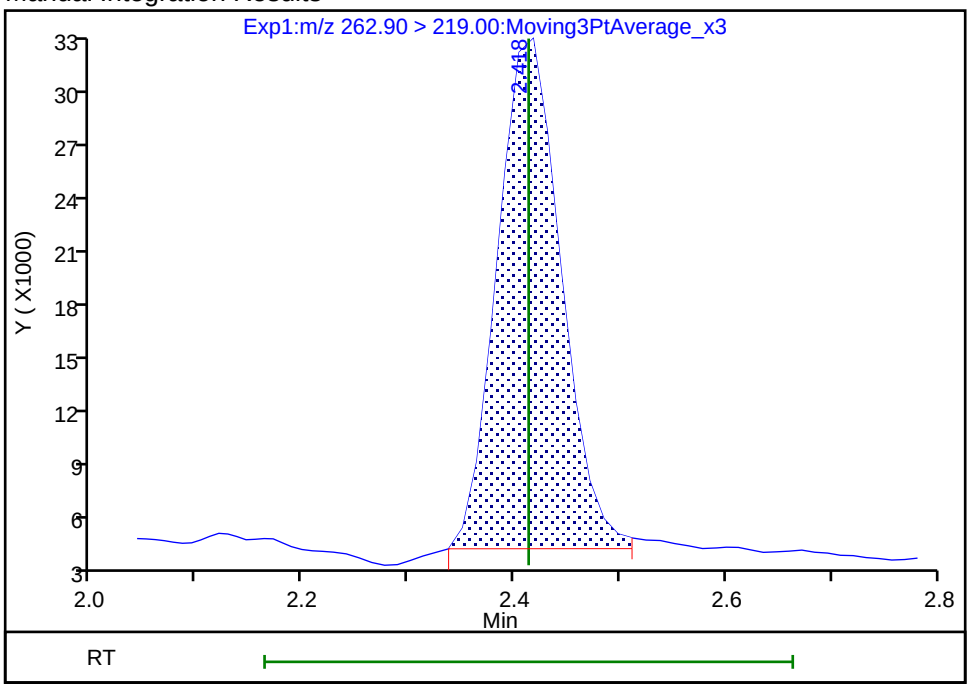
Processing Integration Results

RT: 2.42
Area: 120165
Amount: 0.104534
Amount Units: ng/ml



Manual Integration Results

RT: 2.42
Area: 117429
Amount: 0.104033
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:36:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

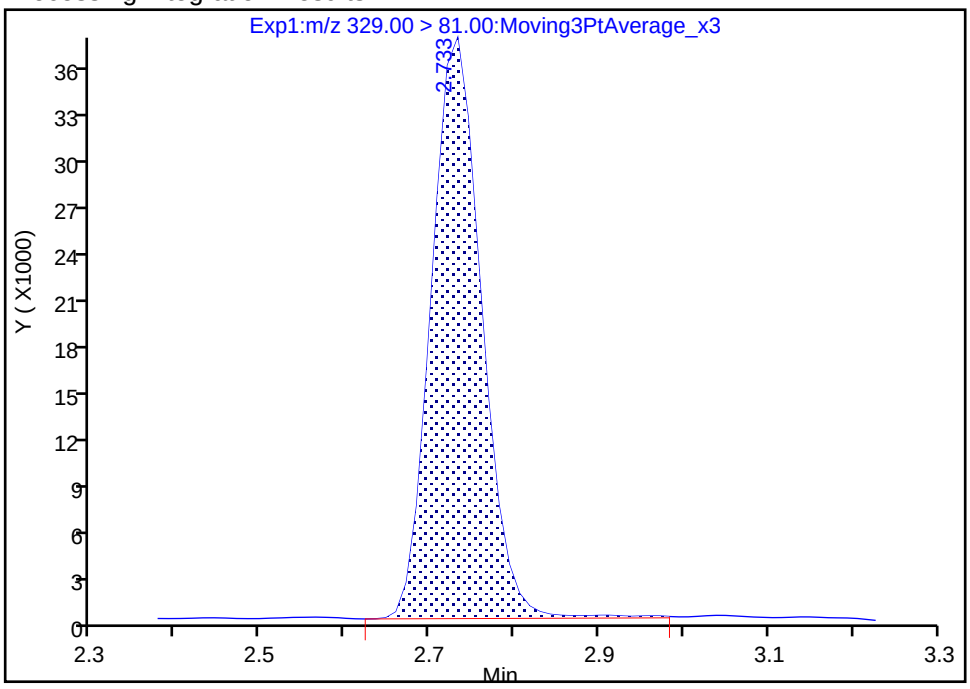
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

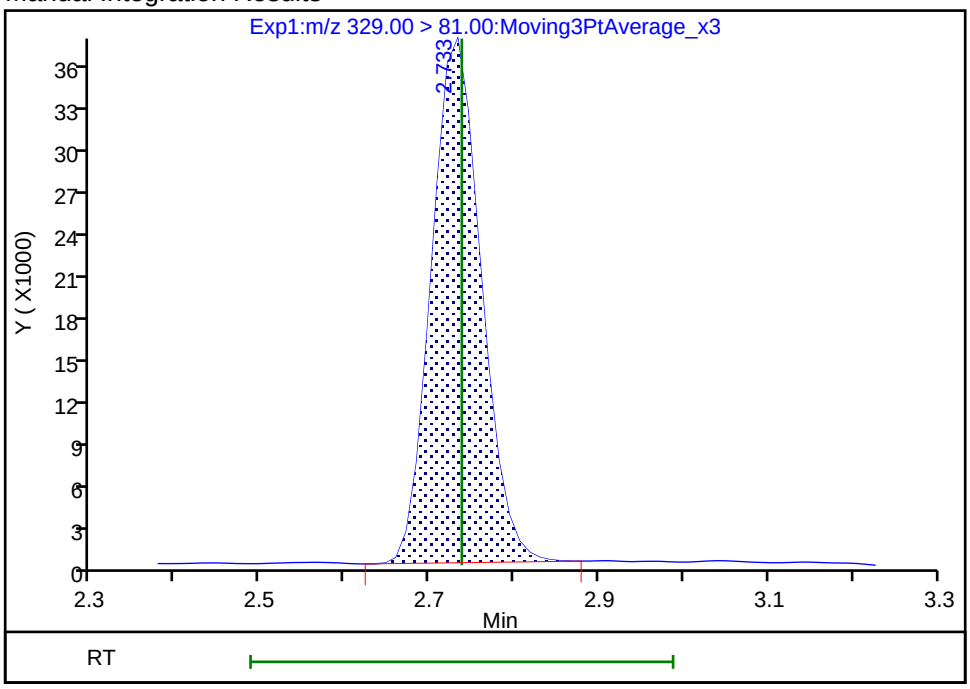
Processing Integration Results

RT: 2.73
Area: 155470
Amount: 1.125610
Amount Units: ng/ml



Manual Integration Results

RT: 2.73
Area: 153457
Amount: 1.156008
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:37:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

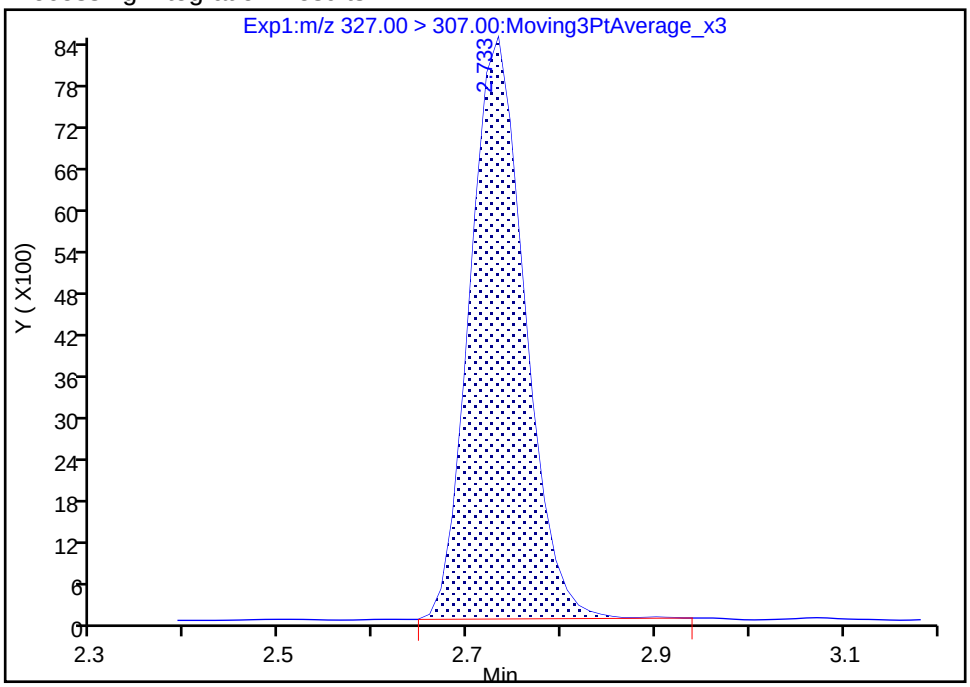
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

61 1H,1H,2H,2H-perfluorohexanesulfo, CAS: 757124-72-4

Signal: 1

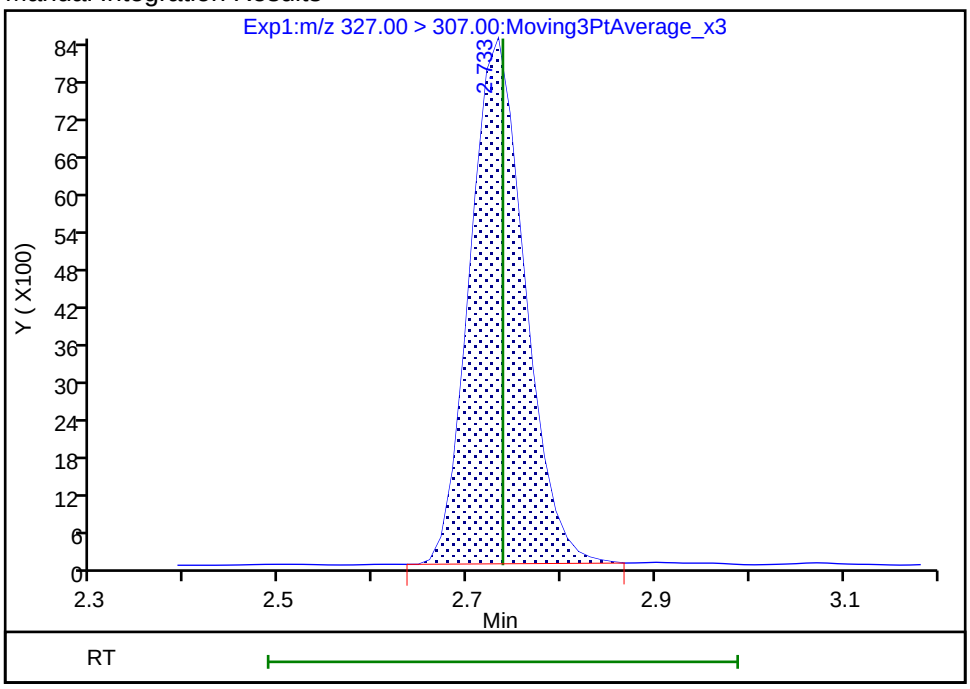
Processing Integration Results

RT: 2.73
Area: 34067
Amount: 0.096879
Amount Units: ng/ml



Manual Integration Results

RT: 2.73
Area: 33986
Amount: 0.102989
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:37:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

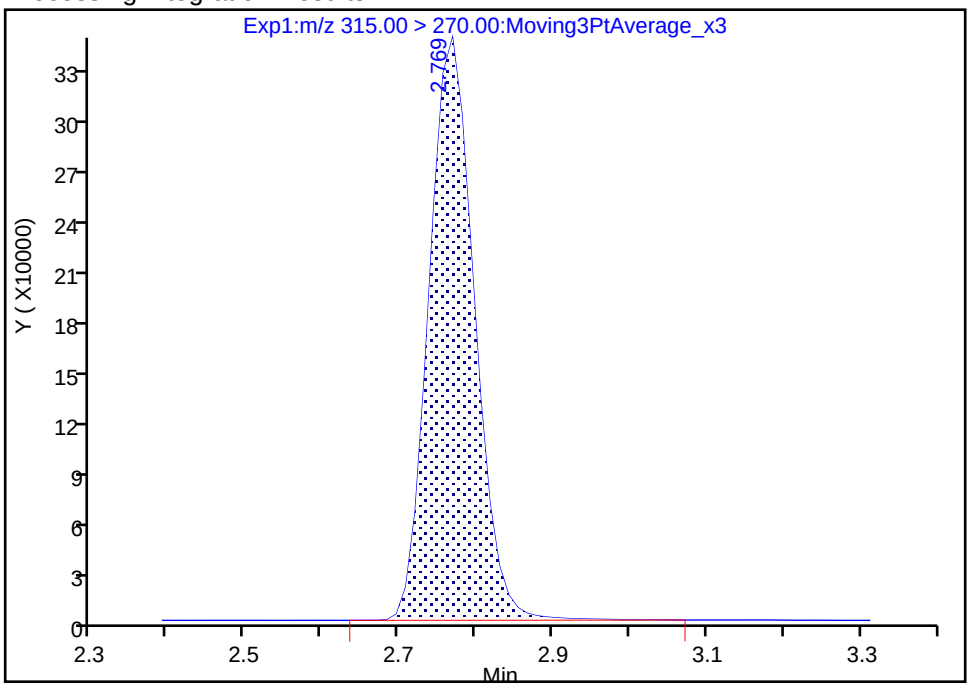
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

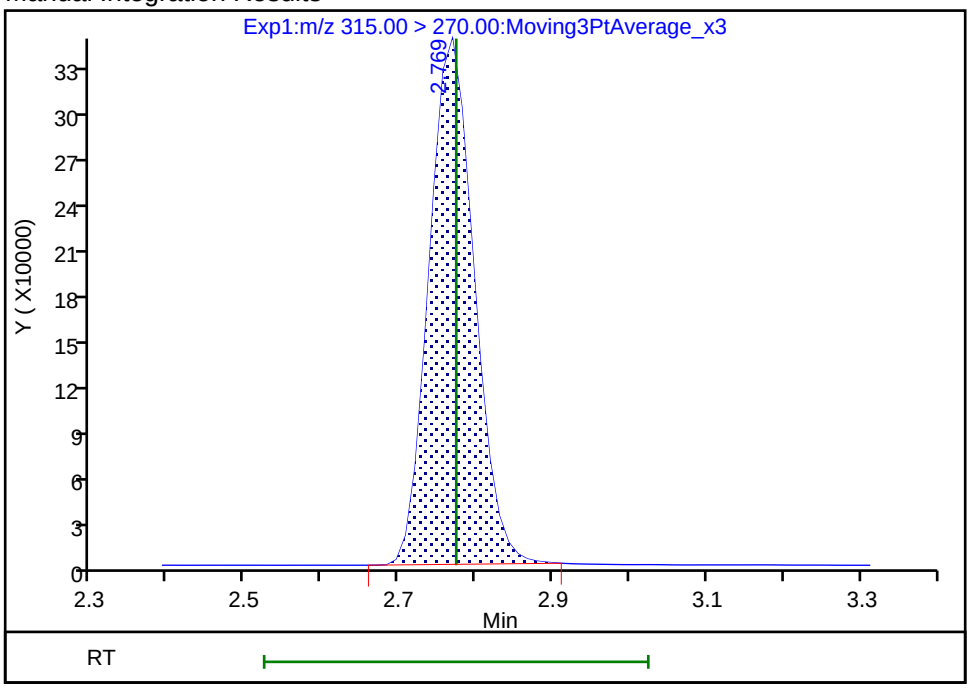
Processing Integration Results

RT: 2.77
Area: 1411914
Amount: 1.211896
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 1399164
Amount: 1.236177
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:37:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

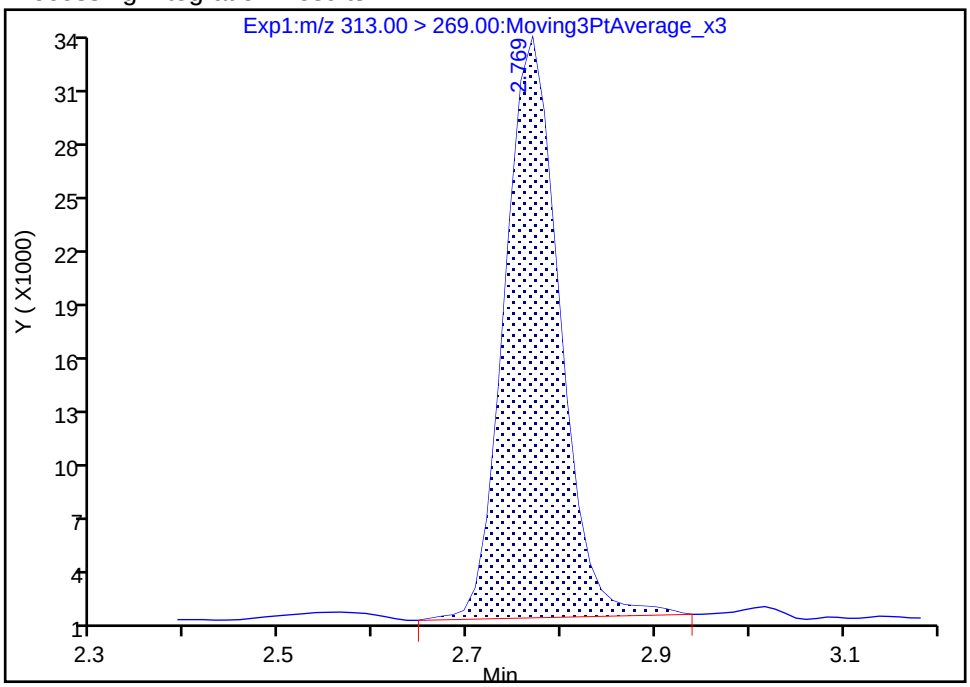
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

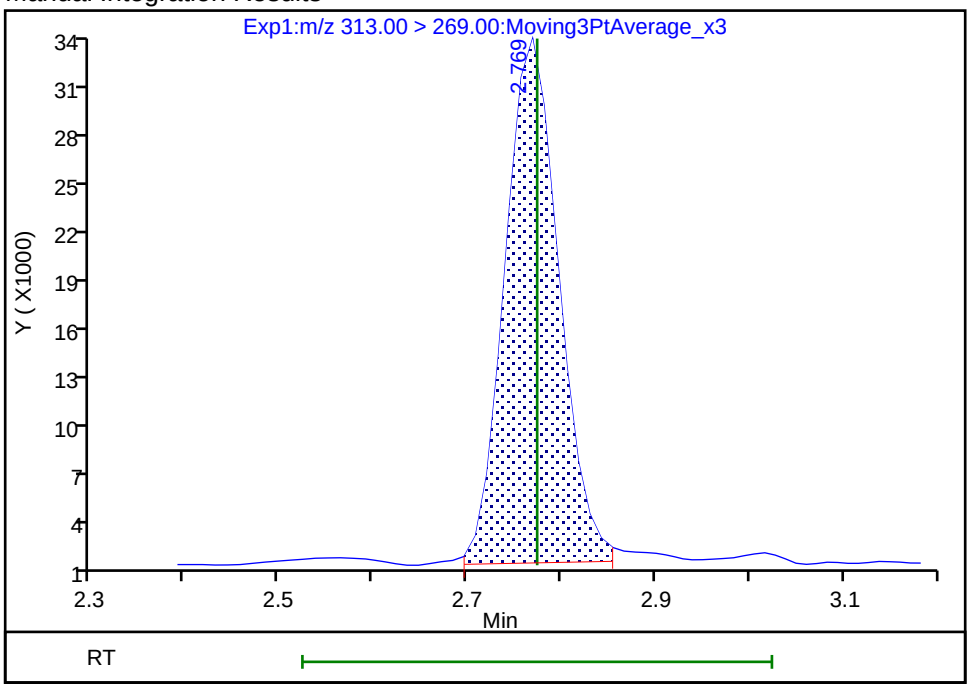
Processing Integration Results

RT: 2.77
Area: 130068
Amount: 0.106041
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 127402
Amount: 0.105452
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:37:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

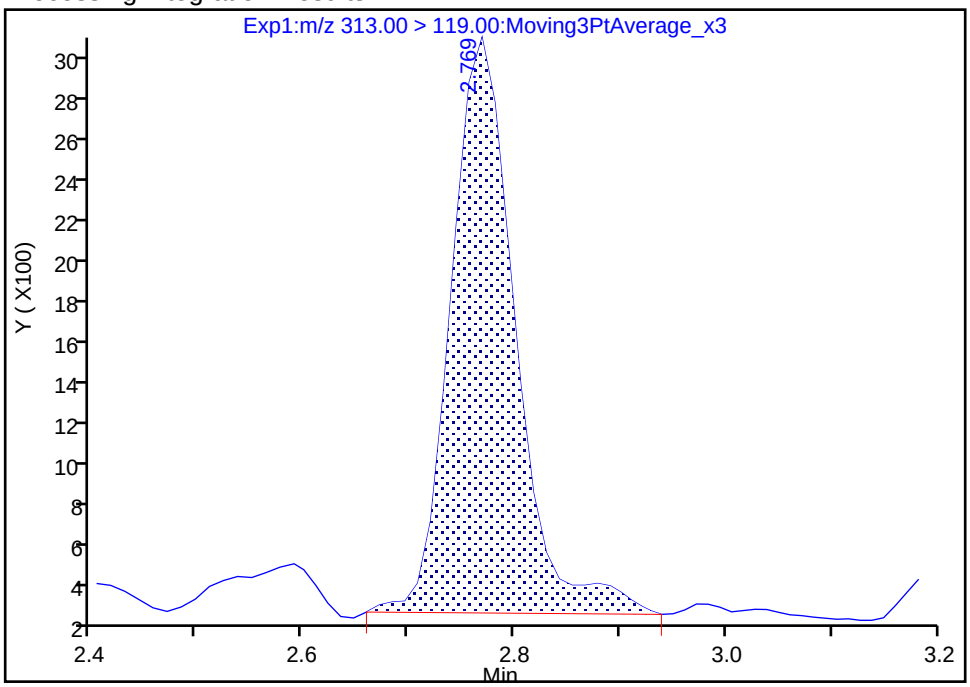
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

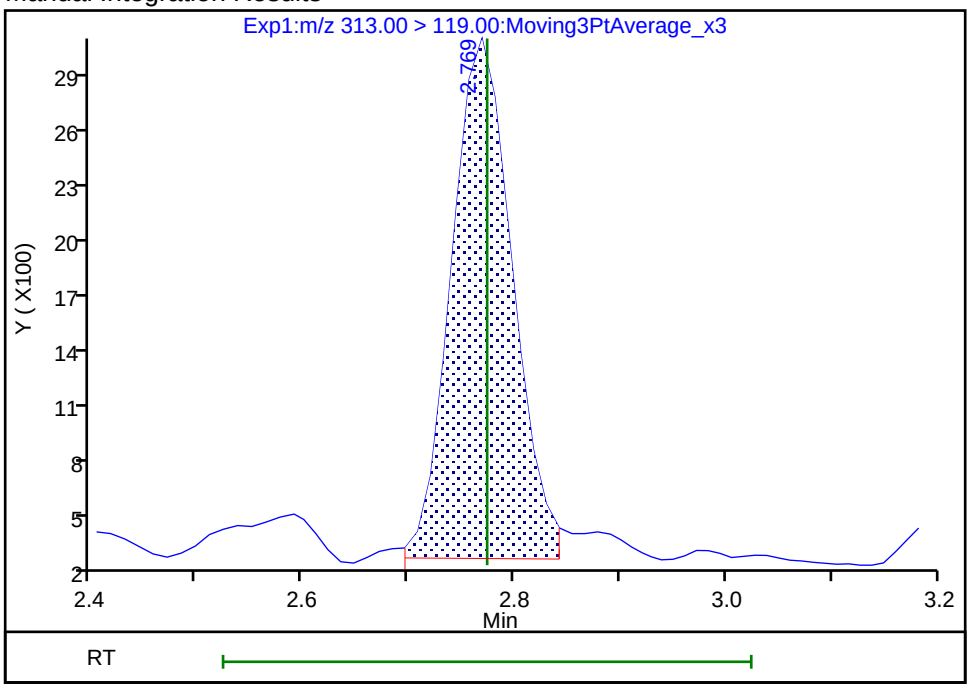
Processing Integration Results

RT: 2.77
Area: 11527
Amount: 0.106041
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 10869
Amount: 0.105452
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:37:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

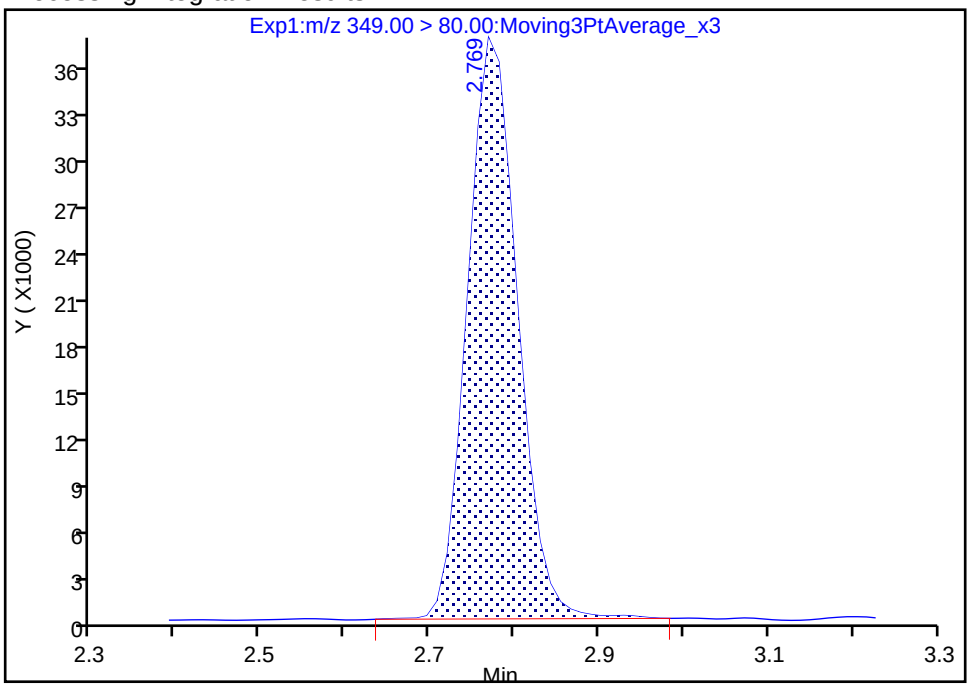
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

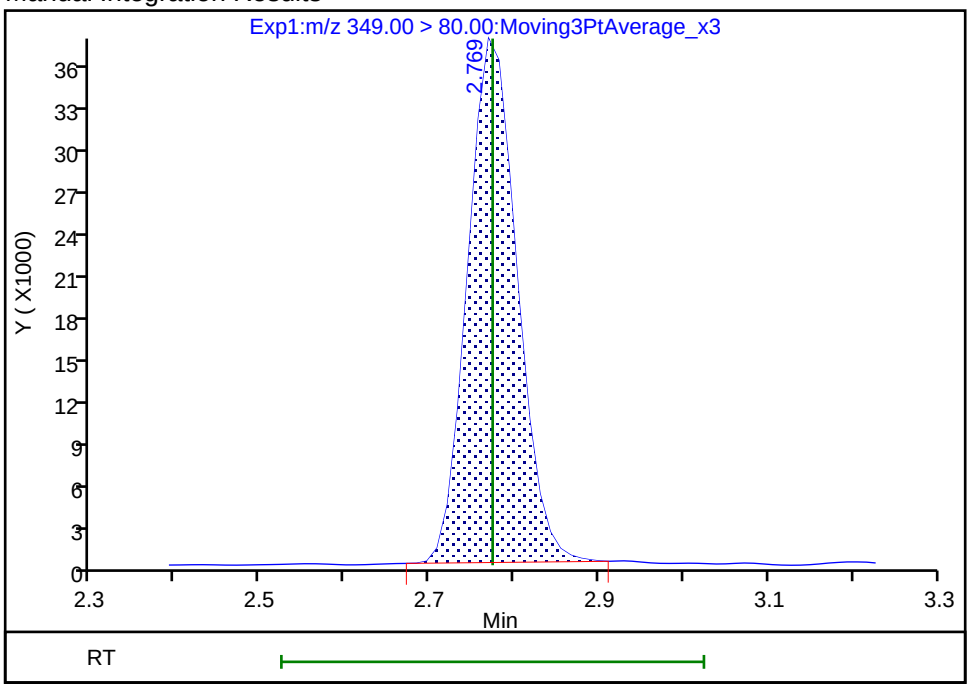
Processing Integration Results

RT: 2.77
Area: 152319
Amount: 0.095381
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 150245
Amount: 0.096824
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:37:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

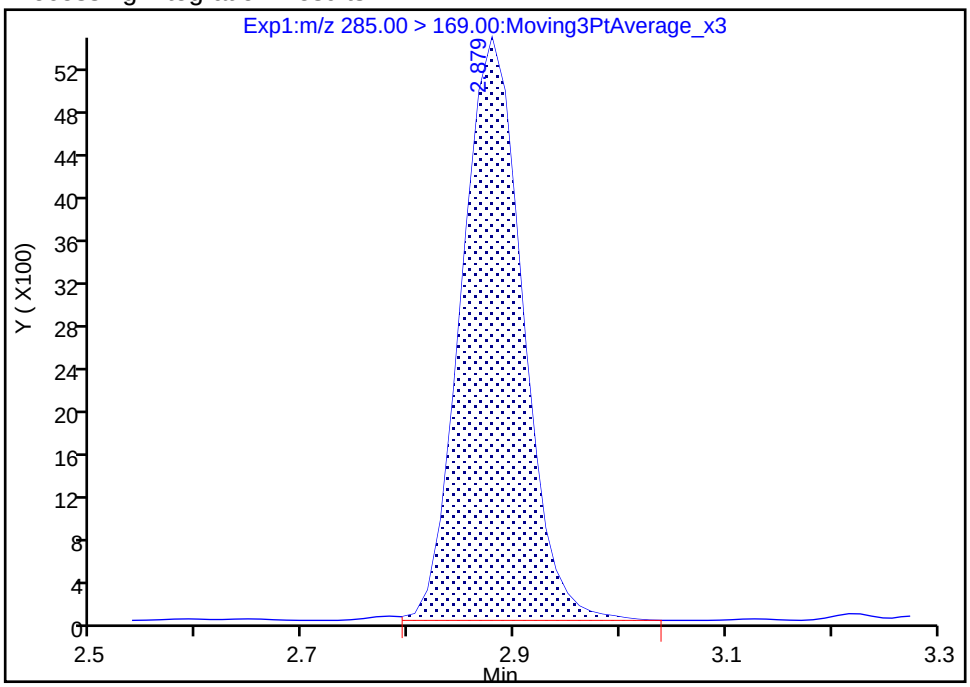
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

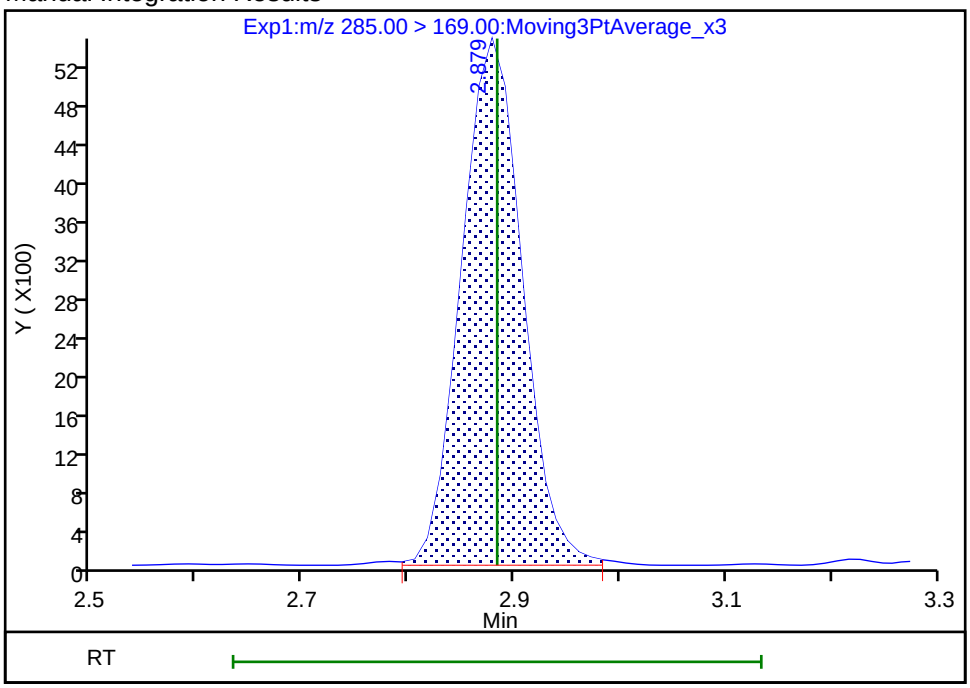
Processing Integration Results

RT: 2.88
Area: 22046
Amount: 0.104090
Amount Units: ng/ml



Manual Integration Results

RT: 2.88
Area: 21970
Amount: 0.106629
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:38:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

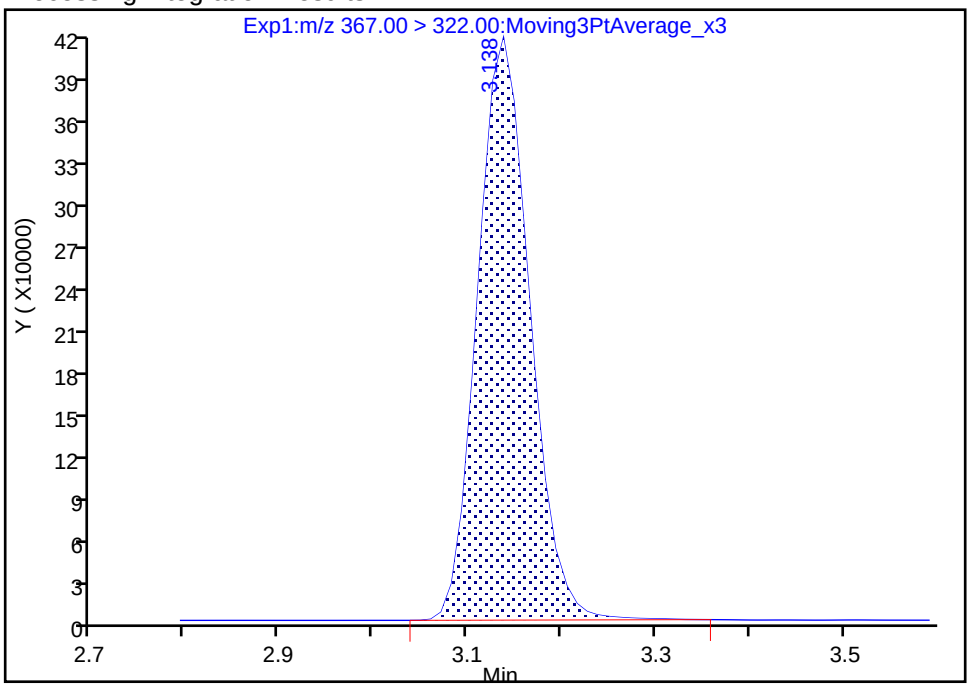
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

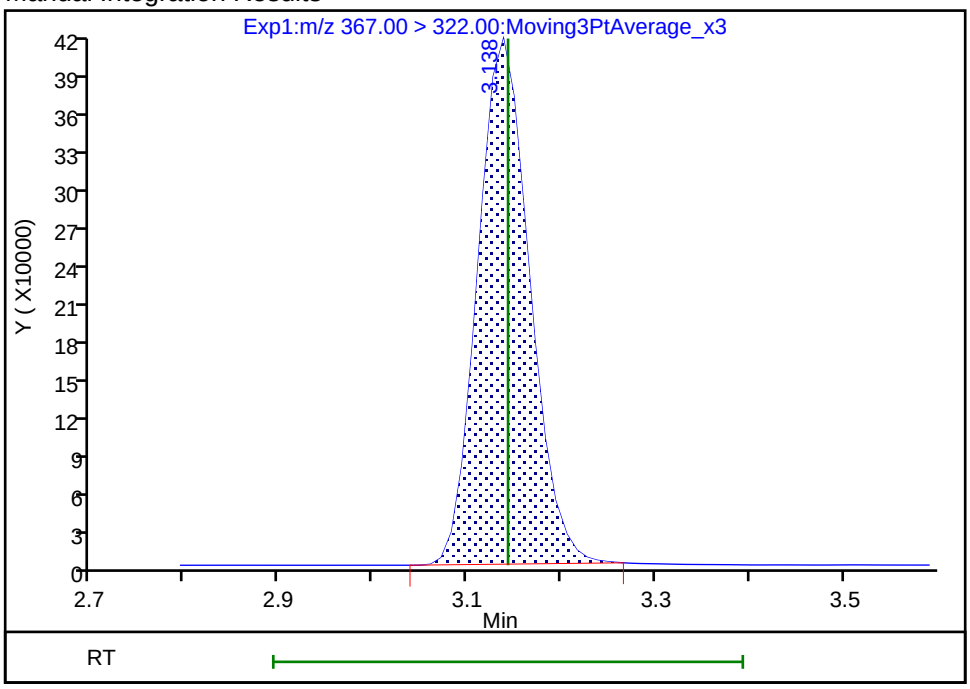
Processing Integration Results

RT: 3.14
Area: 1587951
Amount: 1.304485
Amount Units: ng/ml



Manual Integration Results

RT: 3.14
Area: 1574522
Amount: 1.289323
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:38:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

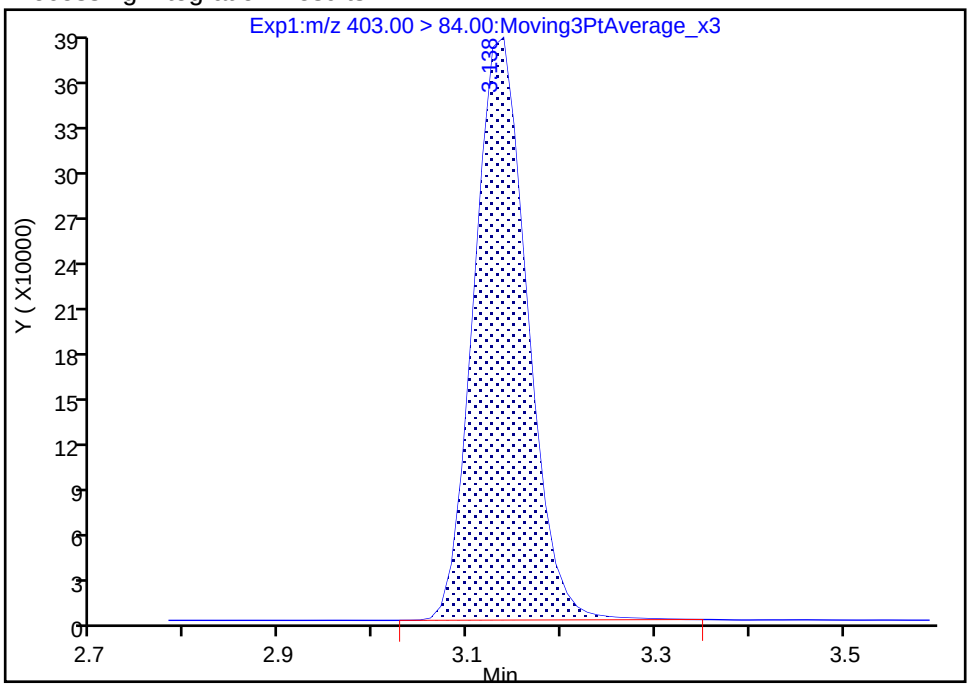
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

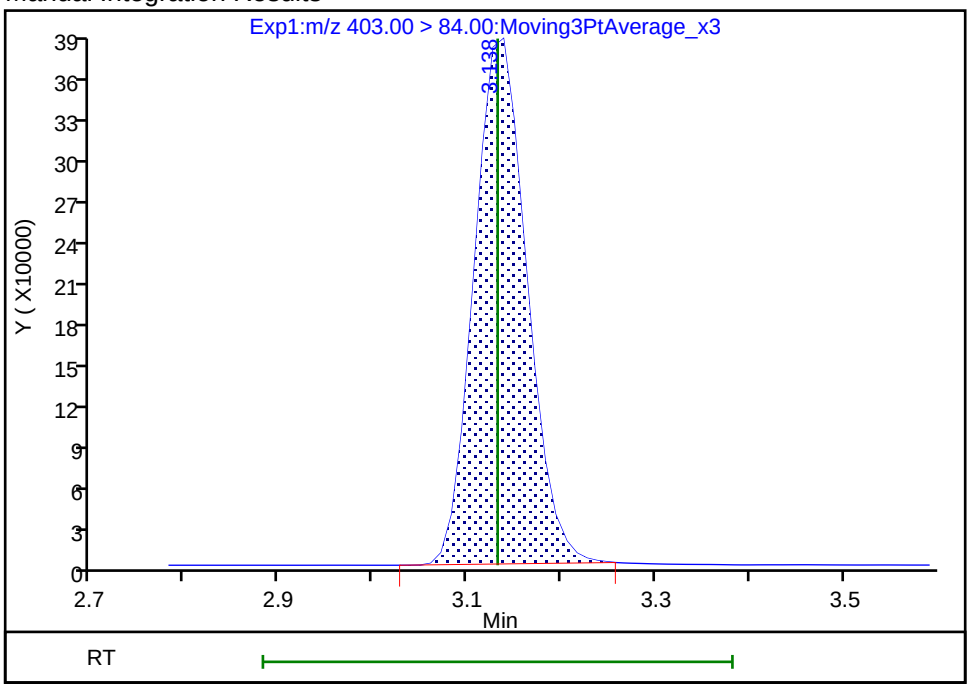
Processing Integration Results

RT: 3.14
Area: 1499833
Amount: 1.192873
Amount Units: ng/ml



Manual Integration Results

RT: 3.14
Area: 1485765
Amount: 1.183571
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:39:16
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

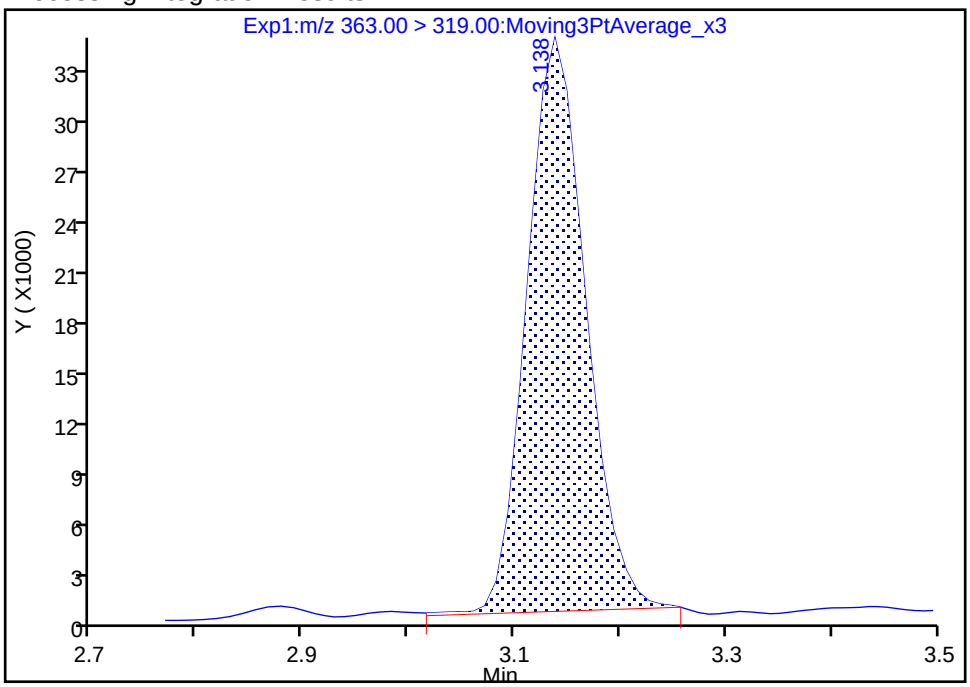
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

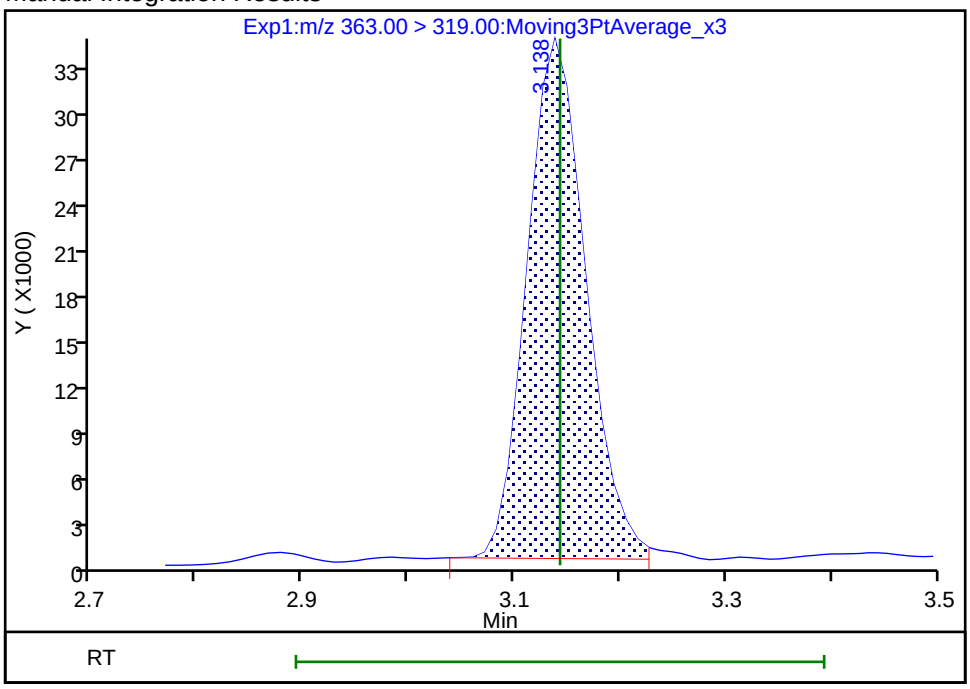
Processing Integration Results

RT: 3.14
Area: 127529
Amount: 0.094664
Amount Units: ng/ml



Manual Integration Results

RT: 3.14
Area: 127791
Amount: 0.100392
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:38:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

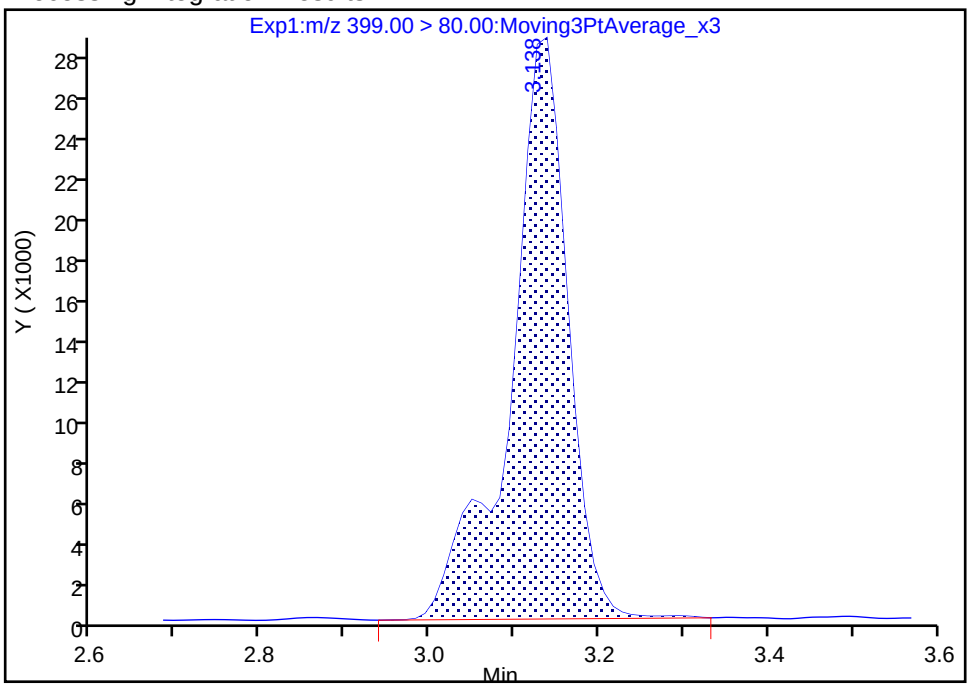
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

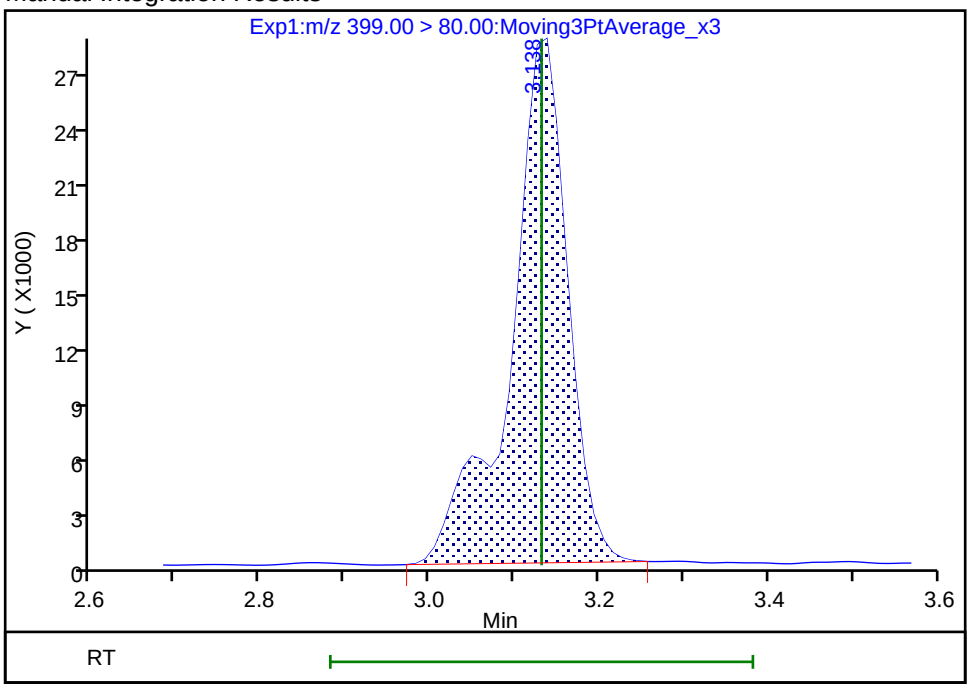
Processing Integration Results

RT: 3.14
Area: 132596
Amount: 0.092856
Amount Units: ng/ml



Manual Integration Results

RT: 3.14
Area: 131294
Amount: 0.094542
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:38:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

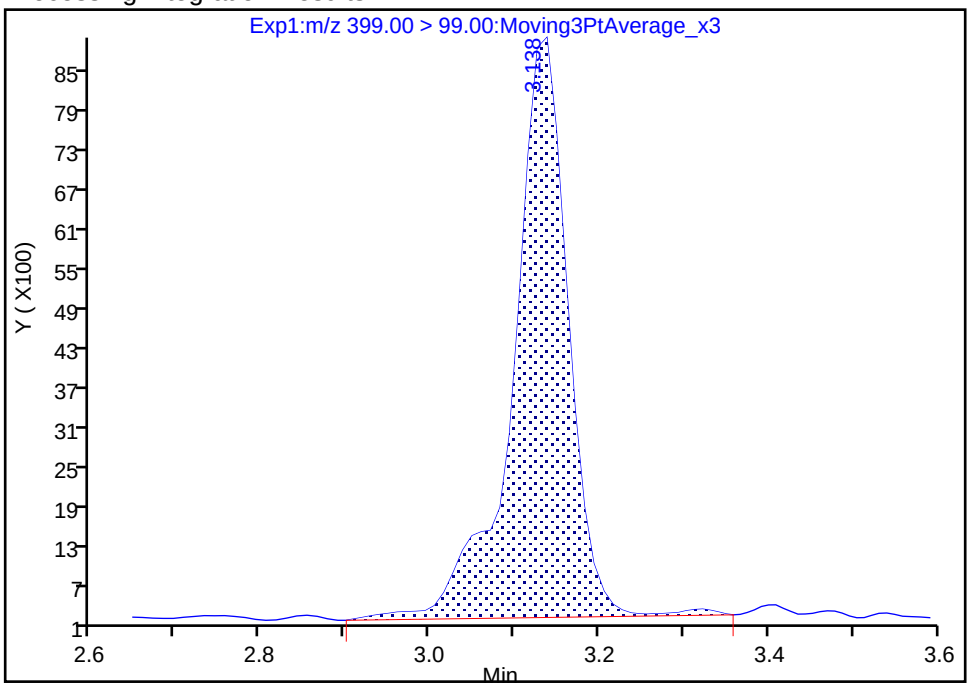
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

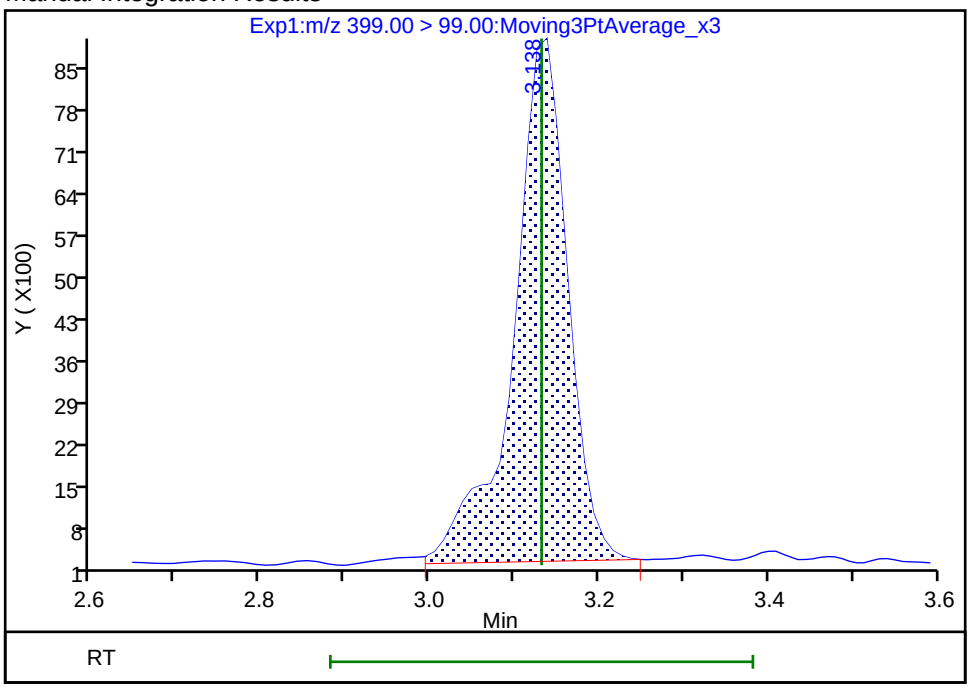
Processing Integration Results

RT: 3.14
Area: 40001
Amount: 0.092856
Amount Units: ng/ml



Manual Integration Results

RT: 3.14
Area: 38917
Amount: 0.094542
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:39:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

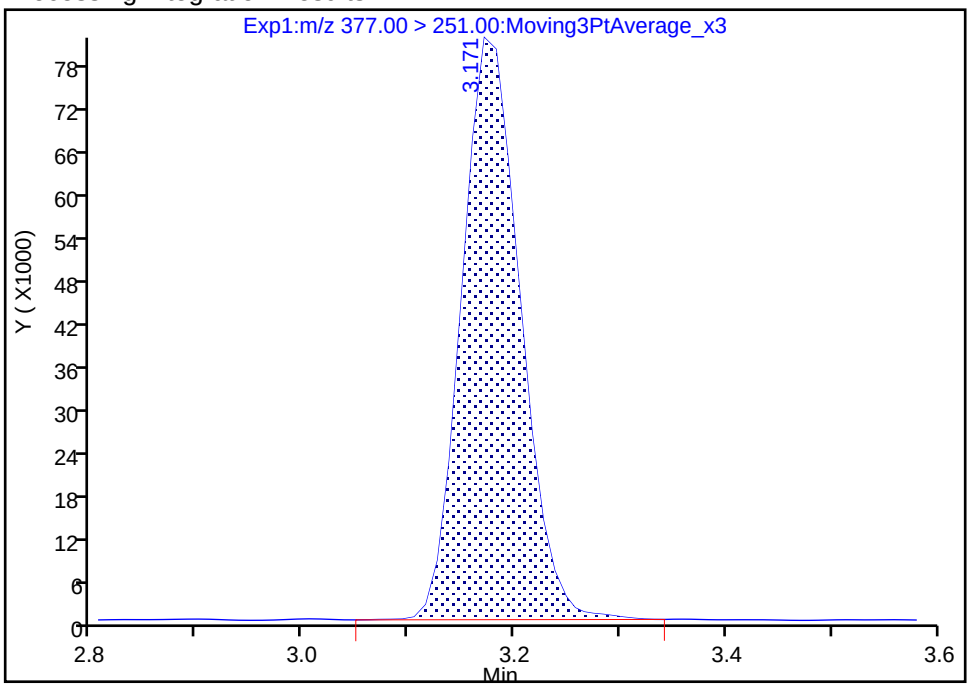
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

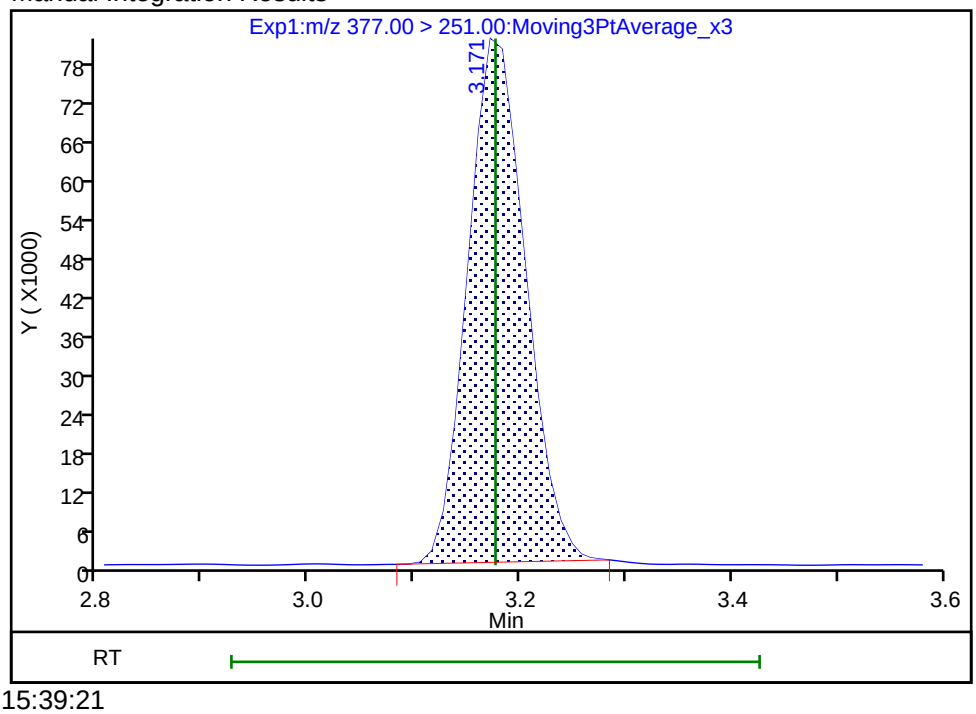
Processing Integration Results

RT: 3.17
Area: 313421
Amount: 0.096842
Amount Units: ng/ml



Manual Integration Results

RT: 3.17
Area: 307811
Amount: 0.099568
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:39:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

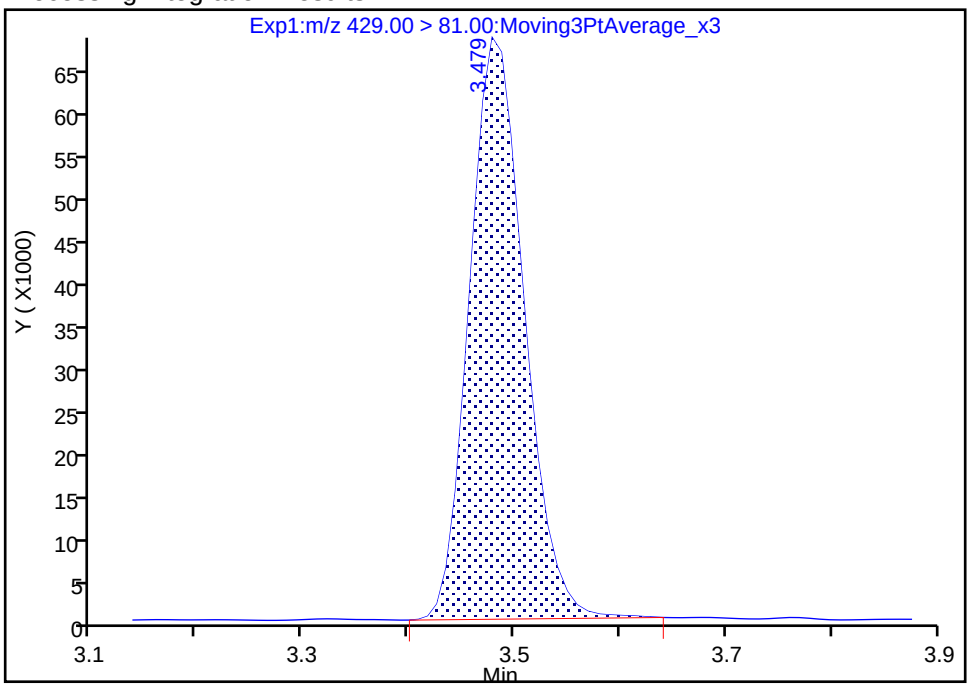
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 12 M2-6:2 FTS, CAS: STL02279

Signal: 1

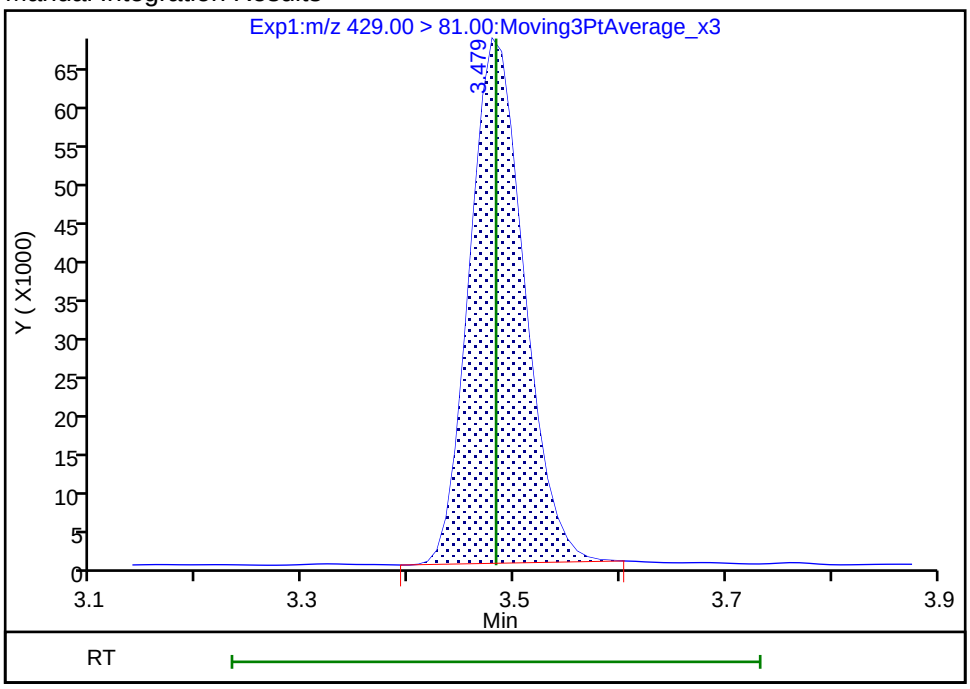
Processing Integration Results

RT: 3.48
Area: 245852
Amount: 1.190948
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 243778
Amount: 1.190443
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:39:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

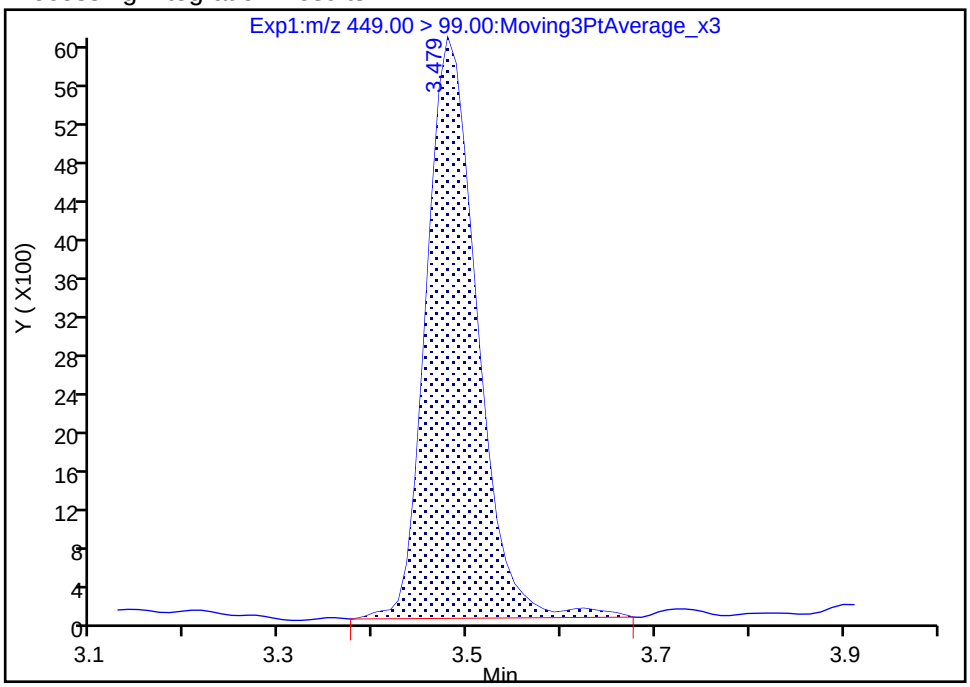
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

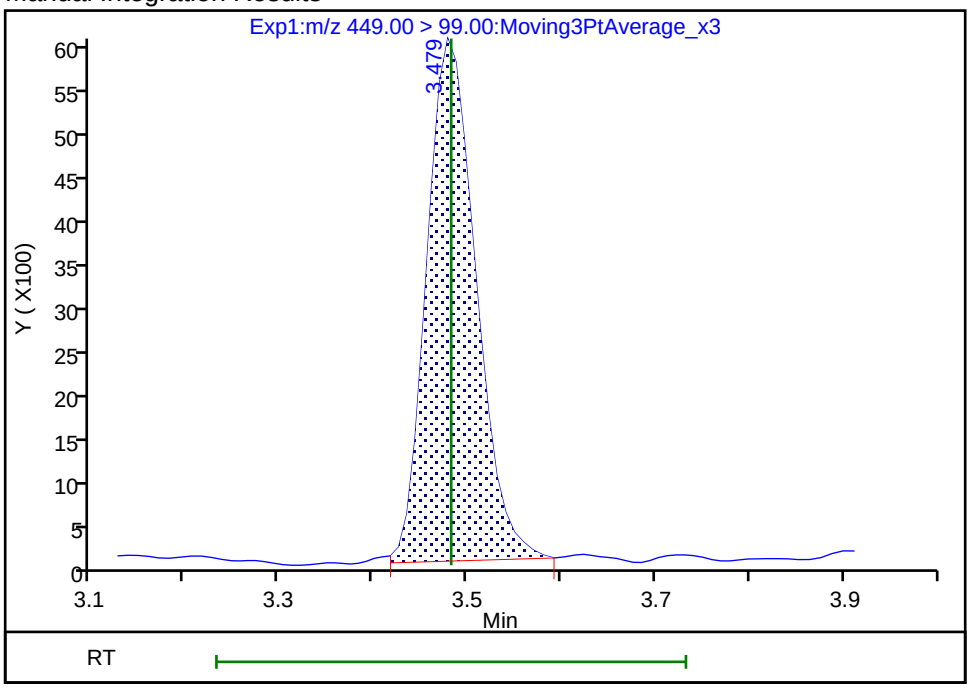
Processing Integration Results

RT: 3.48
Area: 22676
Amount: 0.097561
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 21901
Amount: 0.101081
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:39:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

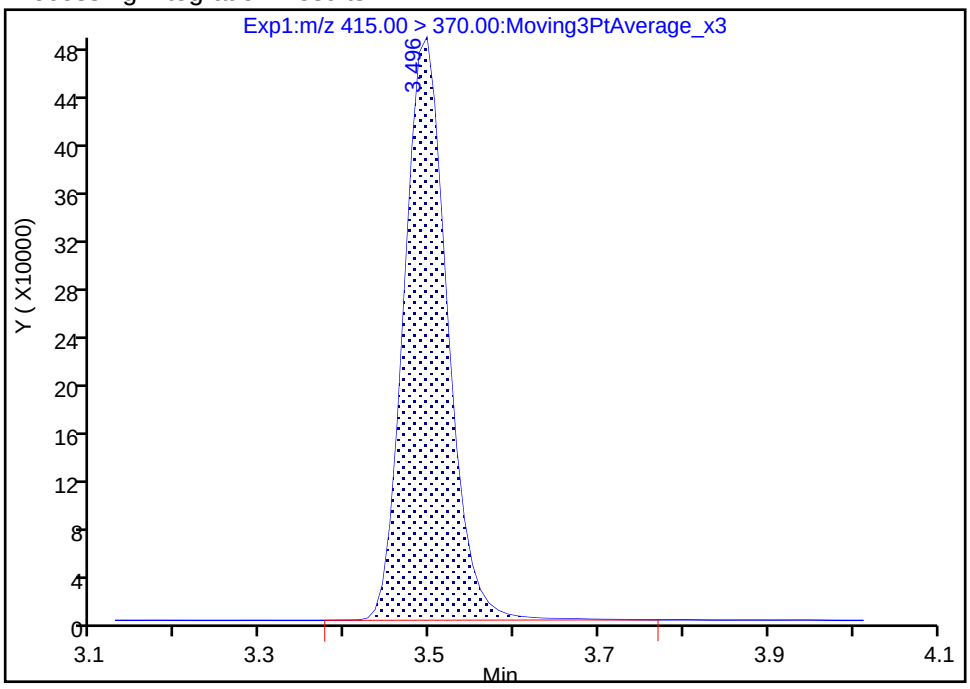
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

* 62 13C2 PFOA, CAS: STL00623

Signal: 1

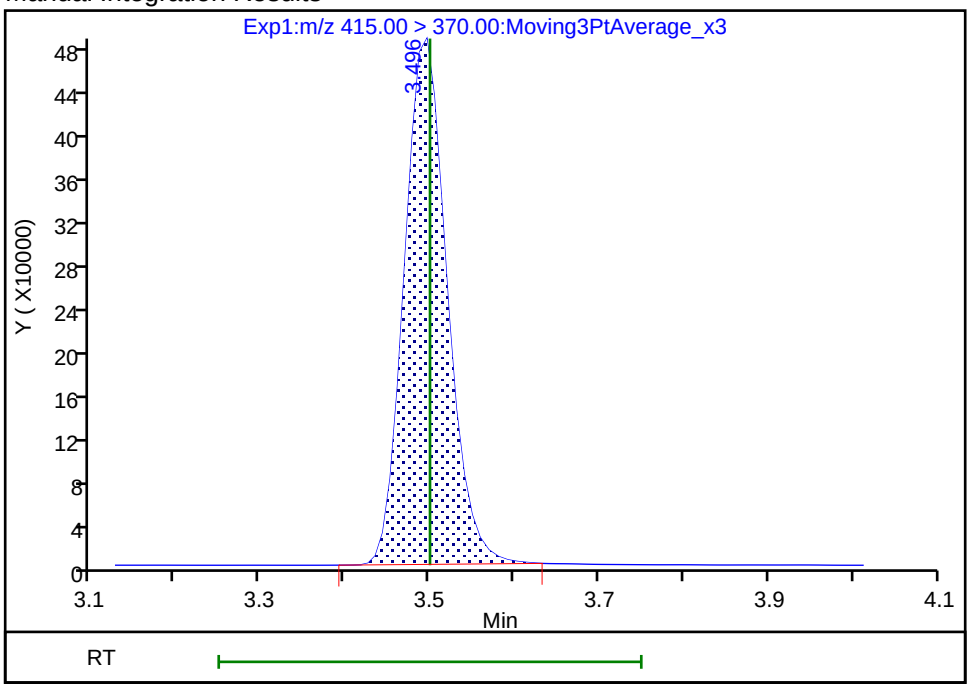
Processing Integration Results

RT: 3.50
Area: 1720089
Amount: 1.250000
Amount Units: ng/ml



Manual Integration Results

RT: 3.50
Area: 1705031
Amount: 1.250000
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:39:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

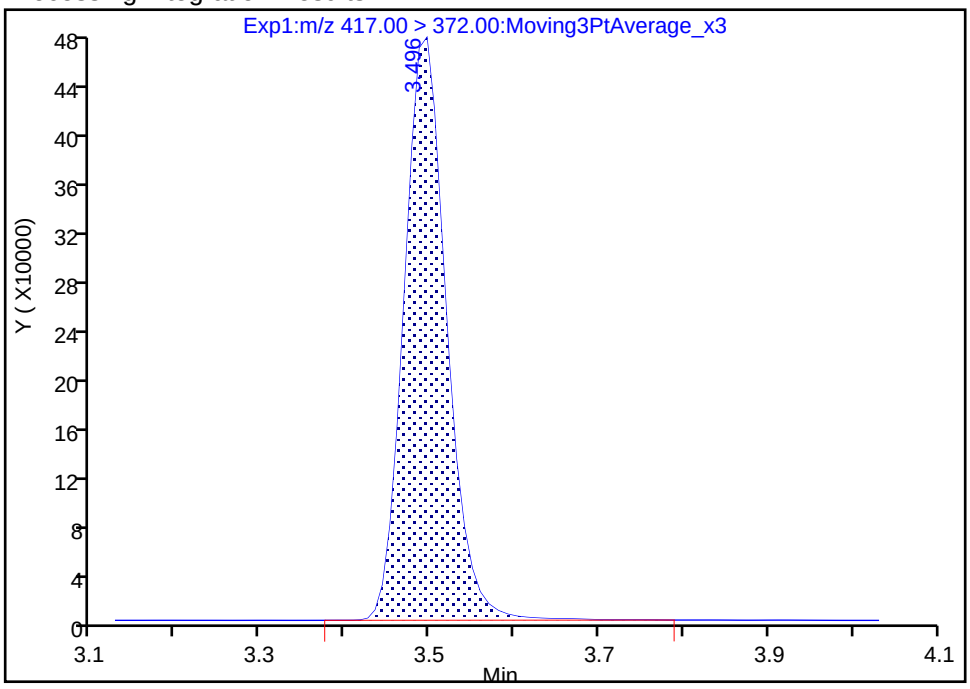
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

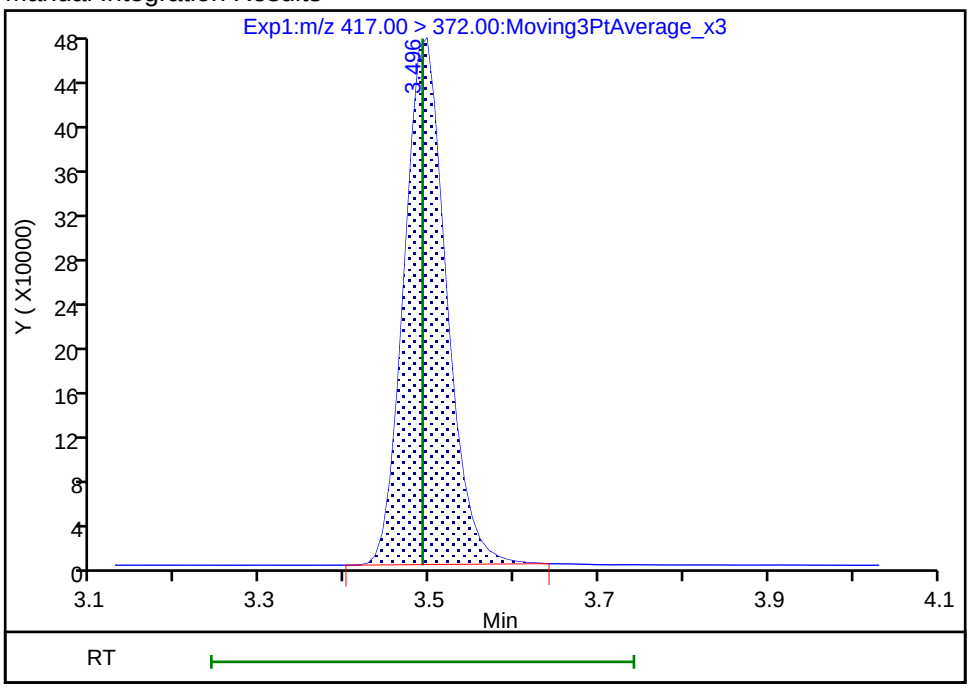
Processing Integration Results

RT: 3.50
Area: 1642509
Amount: 1.246000
Amount Units: ng/ml



Manual Integration Results

RT: 3.50
Area: 1629748
Amount: 1.269131
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:39:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

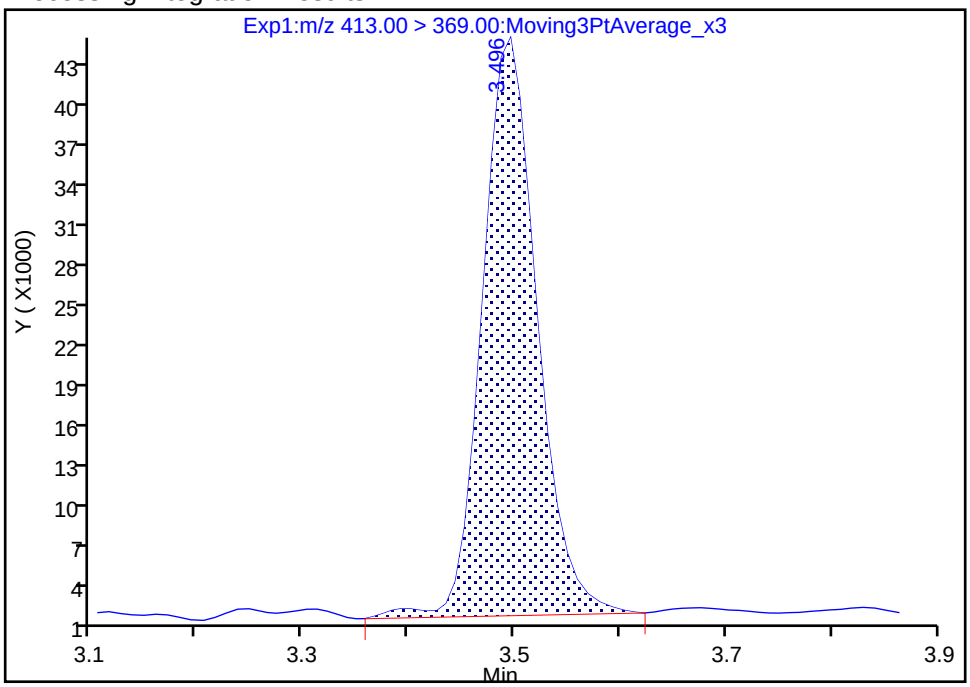
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

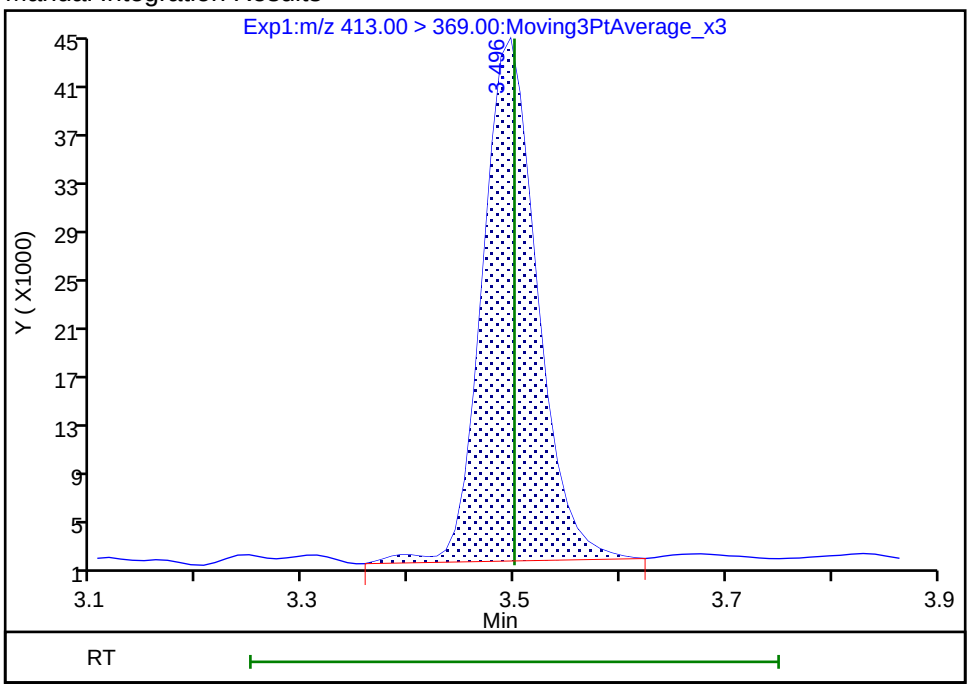
Processing Integration Results

RT: 3.50
Area: 152451
Amount: 0.104416
Amount Units: ng/ml



Manual Integration Results

RT: 3.50
Area: 152395
Amount: 0.104367
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:39:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

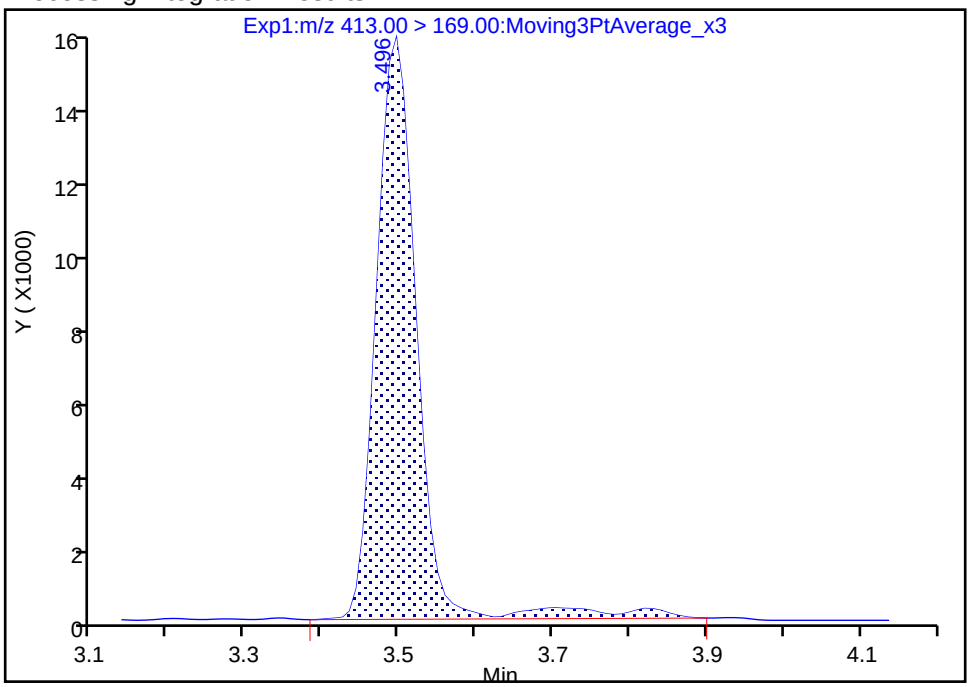
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

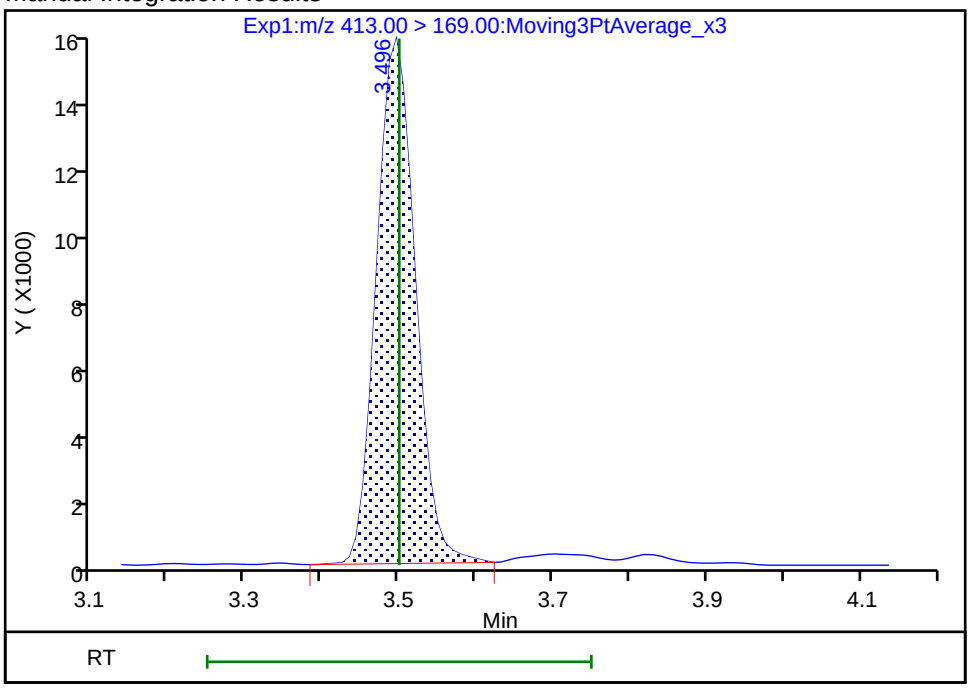
Processing Integration Results

RT: 3.50
Area: 57043
Amount: 0.104416
Amount Units: ng/ml



Manual Integration Results

RT: 3.50
Area: 53894
Amount: 0.104367
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:39:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

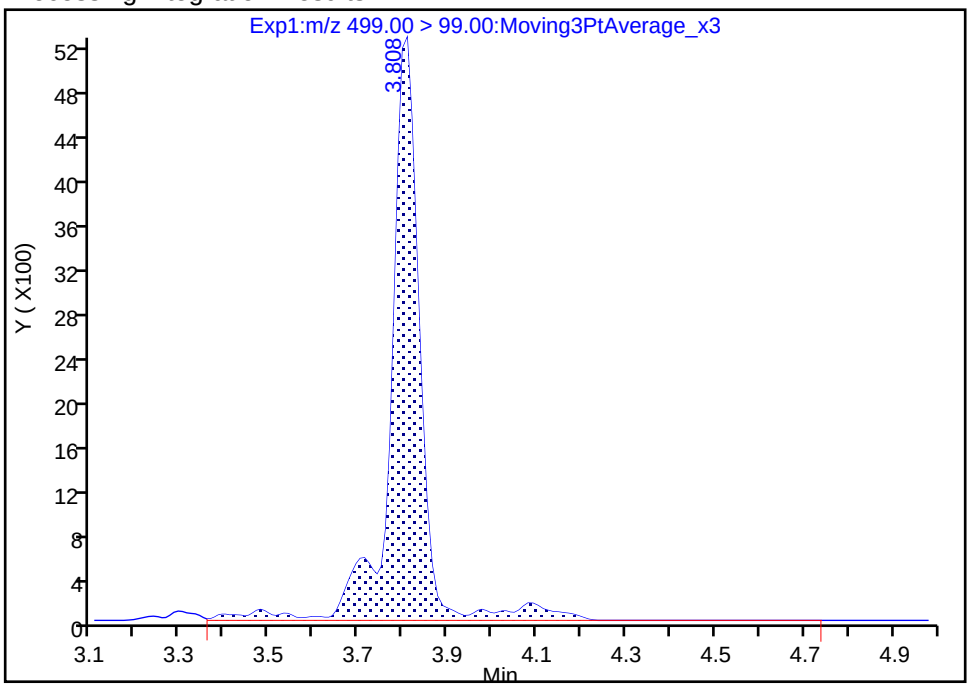
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

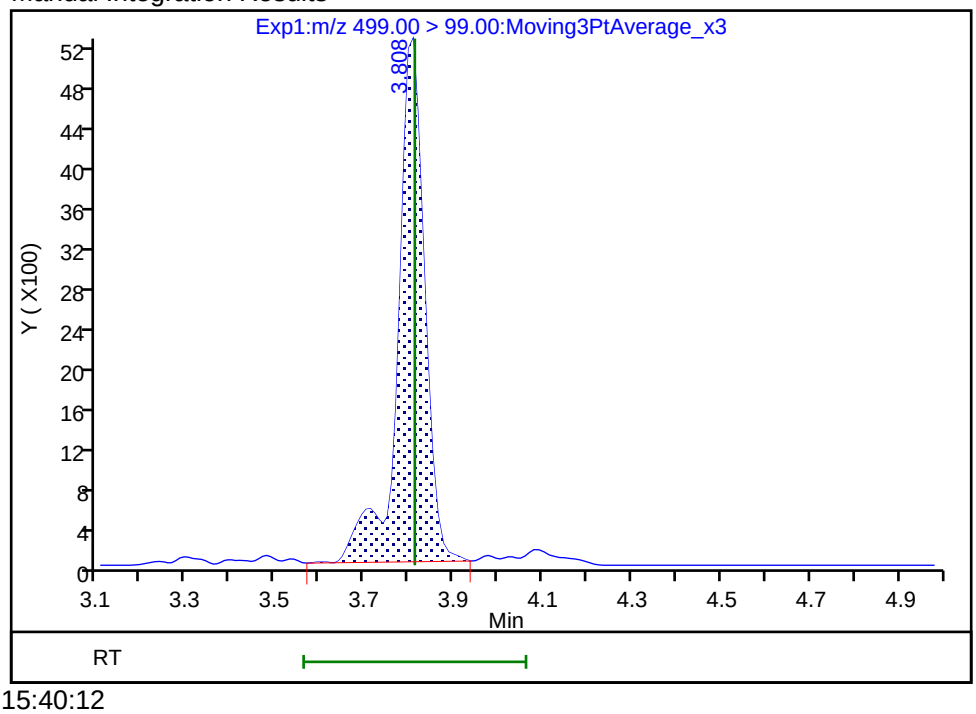
Processing Integration Results

RT: 3.81
Area: 24644
Amount: 0.102211
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 21941
Amount: 0.099907
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:40:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

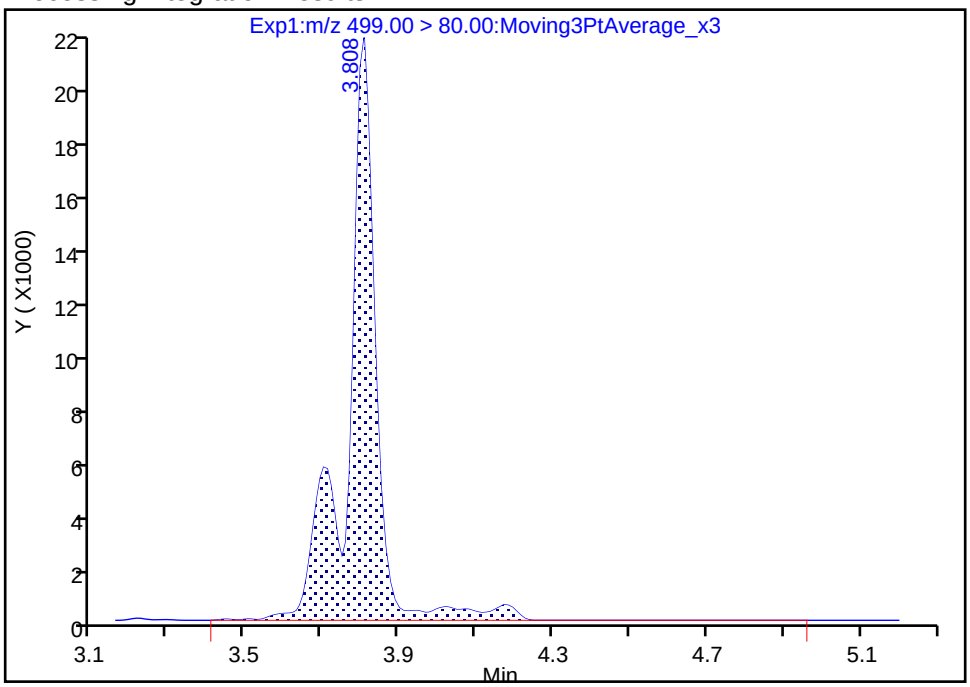
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

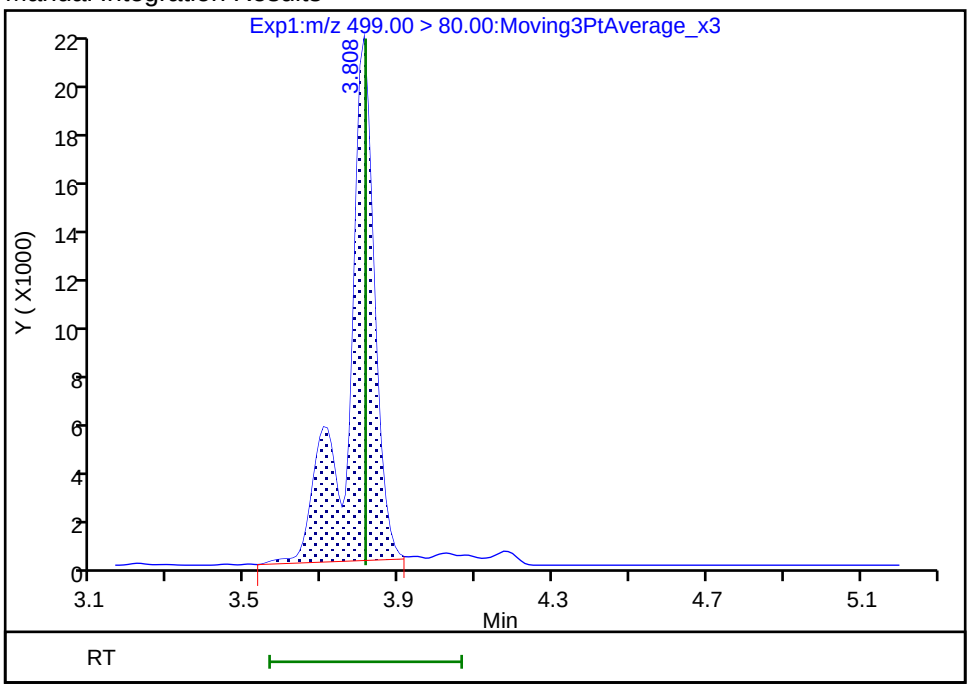
Processing Integration Results

RT: 3.81
Area: 113951
Amount: 0.102211
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 103222
Amount: 0.099907
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:40:16
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

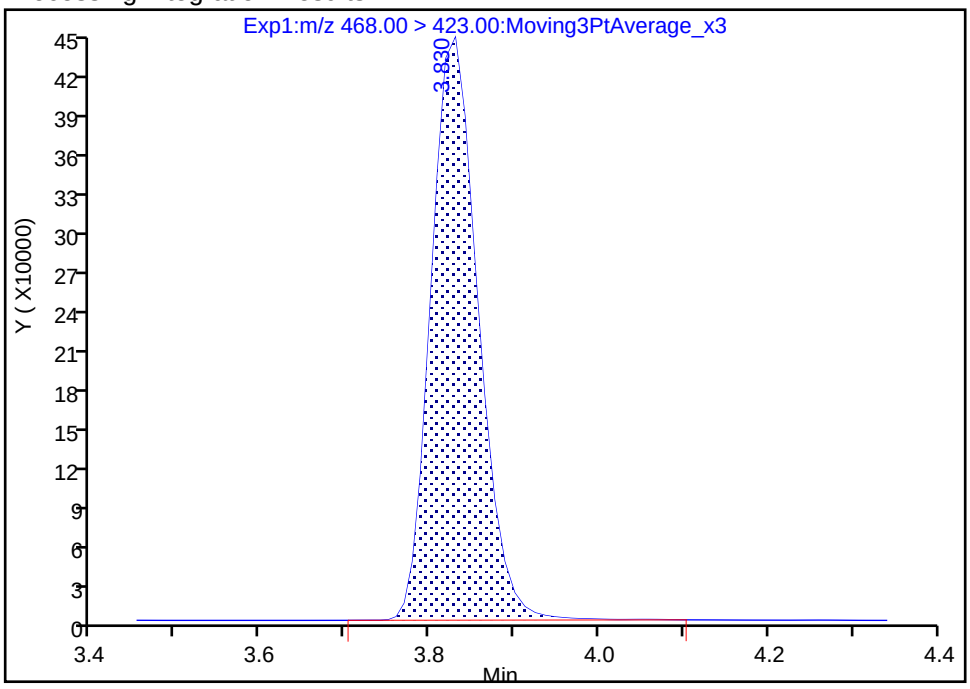
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

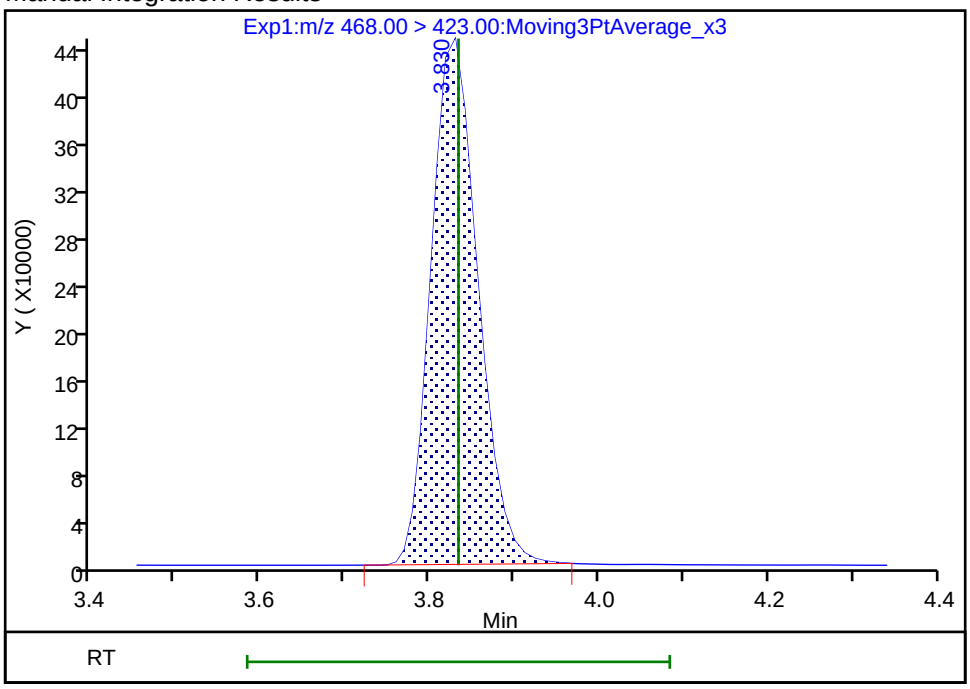
Processing Integration Results

RT: 3.83
Area: 1729558
Amount: 1.266874
Amount Units: ng/ml



Manual Integration Results

RT: 3.83
Area: 1716741
Amount: 1.230310
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:40:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

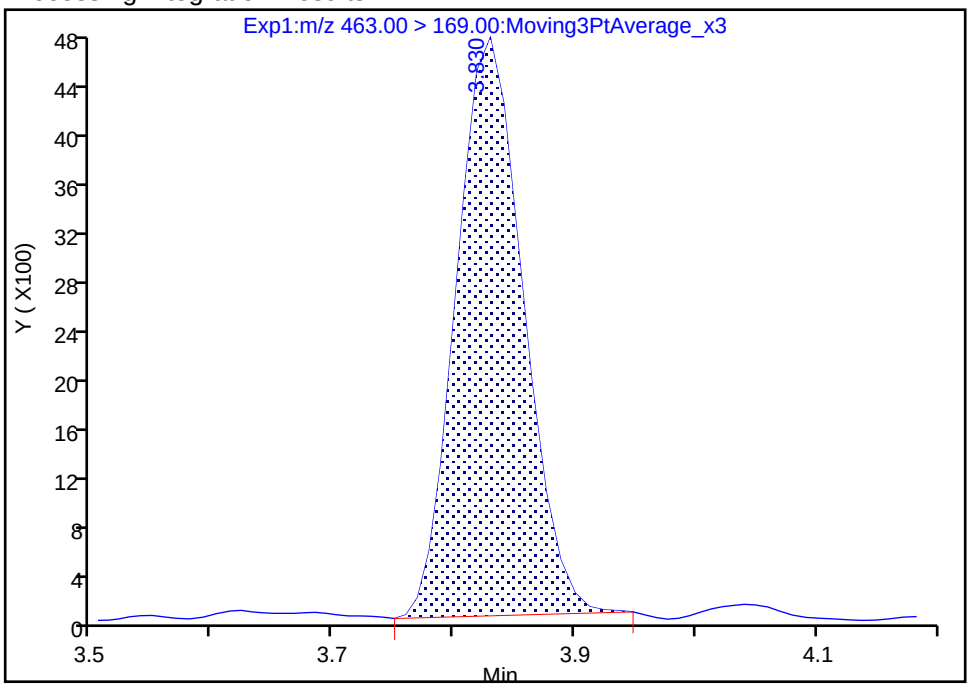
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

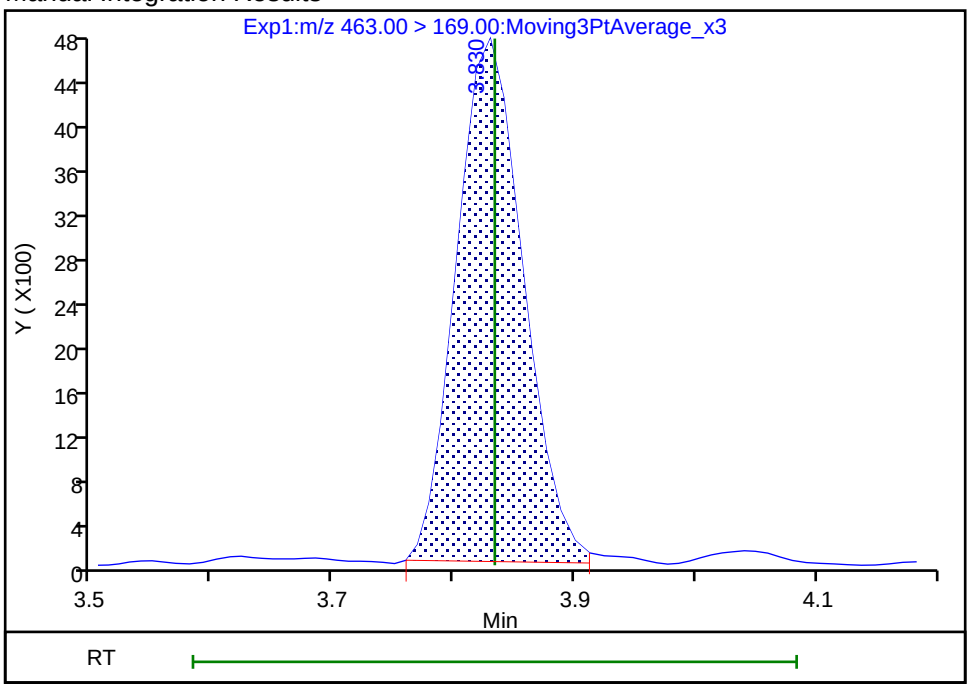
Processing Integration Results

RT: 3.83
Area: 18060
Amount: 0.098778
Amount Units: ng/ml



Manual Integration Results

RT: 3.83
Area: 18061
Amount: 0.101734
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:40:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

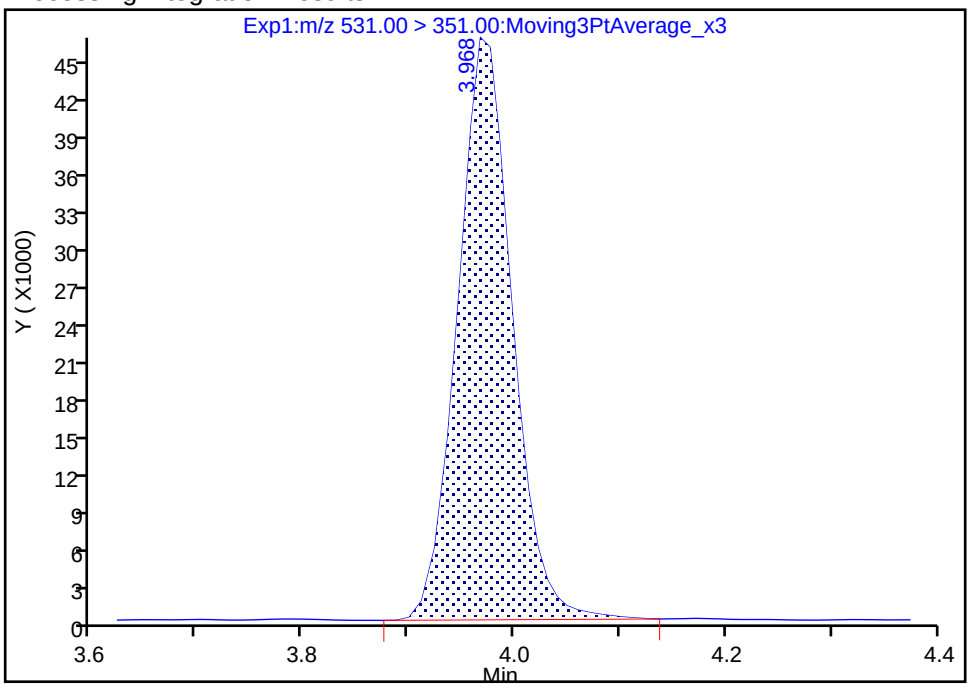
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

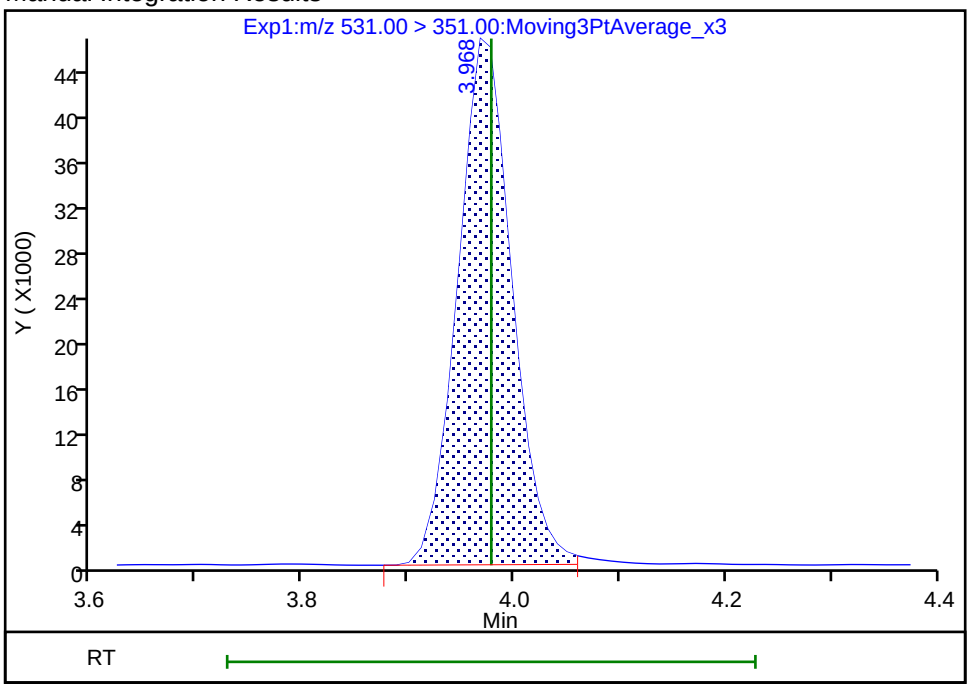
Processing Integration Results

RT: 3.97
Area: 167174
Amount: 0.093459
Amount Units: ng/ml



Manual Integration Results

RT: 3.97
Area: 165943
Amount: 0.097193
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:40:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

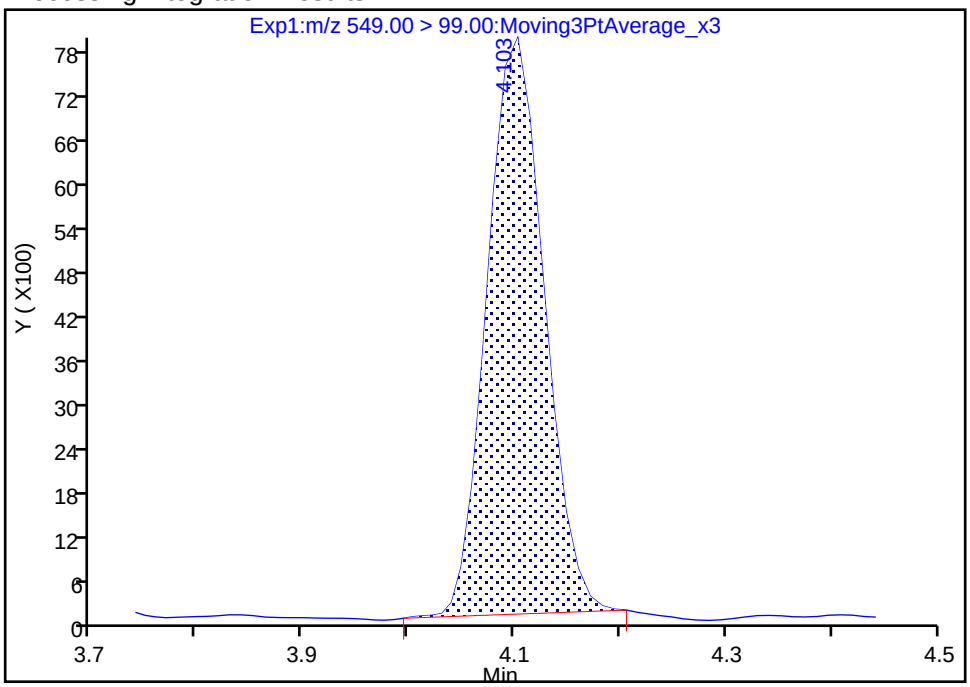
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

68 Perfluorononanesulfonic acid, CAS: 68259-12-1

Signal: 2

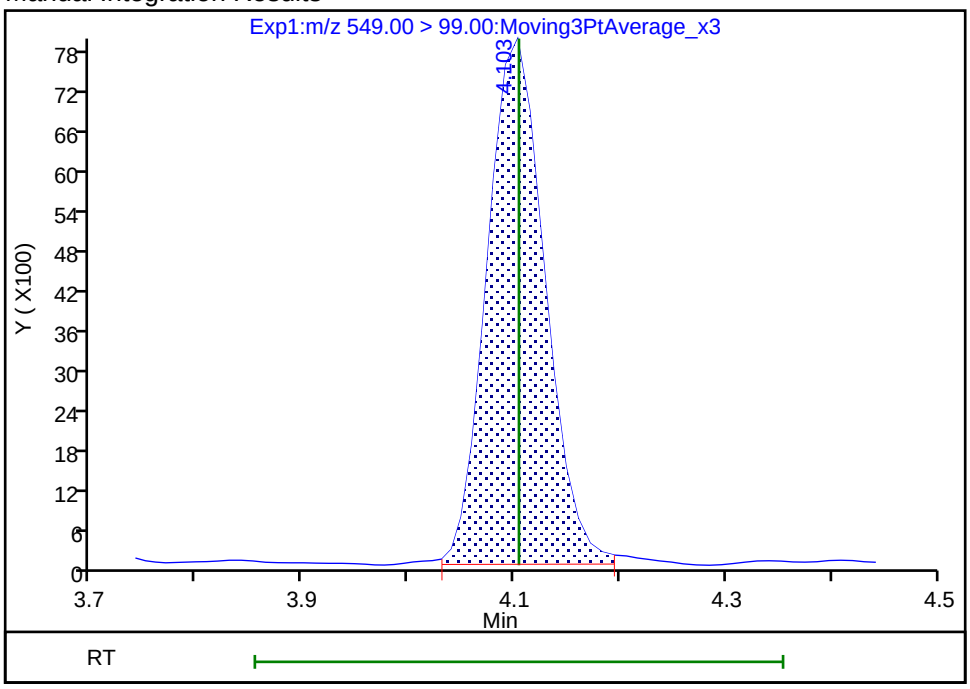
Processing Integration Results

RT: 4.10
Area: 29692
Amount: 0.098263
Amount Units: ng/ml



Manual Integration Results

RT: 4.10
Area: 30388
Amount: 0.102196
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:40:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

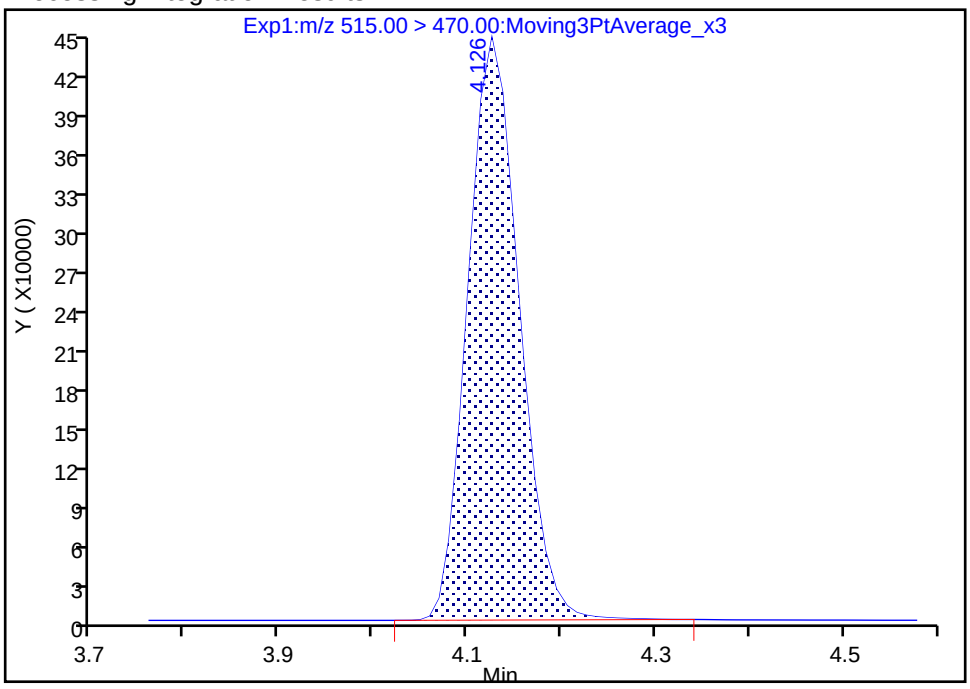
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

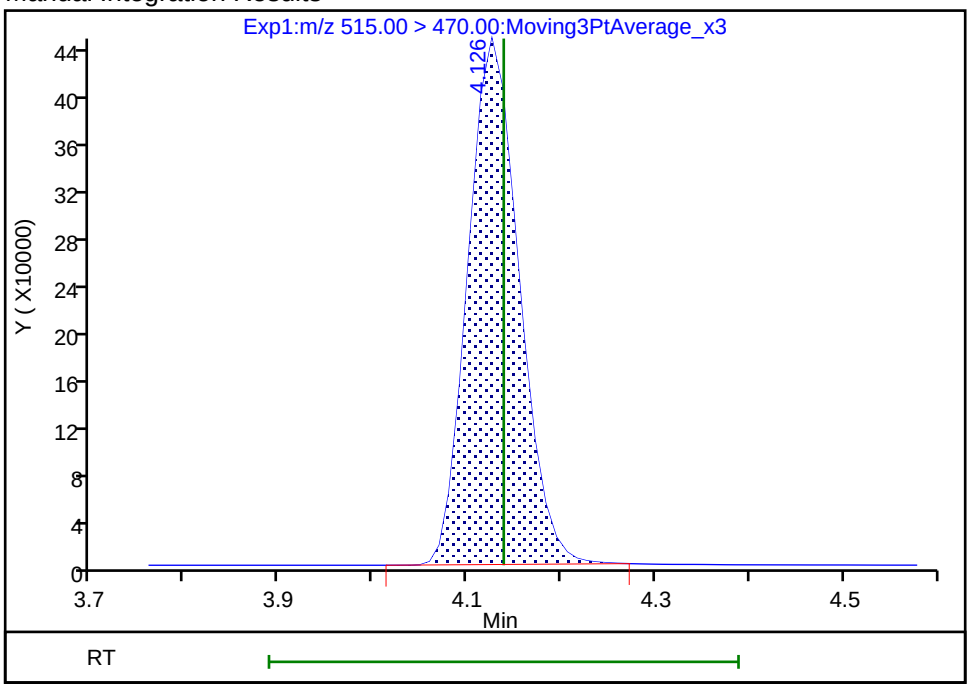
Processing Integration Results

RT: 4.13
Area: 1704726
Amount: 1.285592
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 1696948
Amount: 1.262972
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:41:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

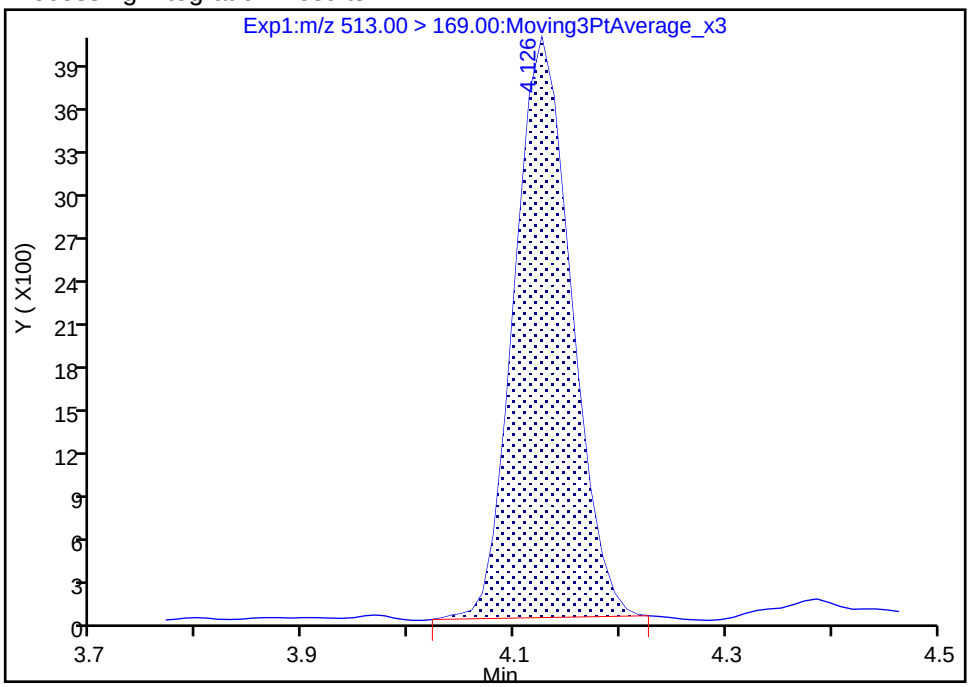
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

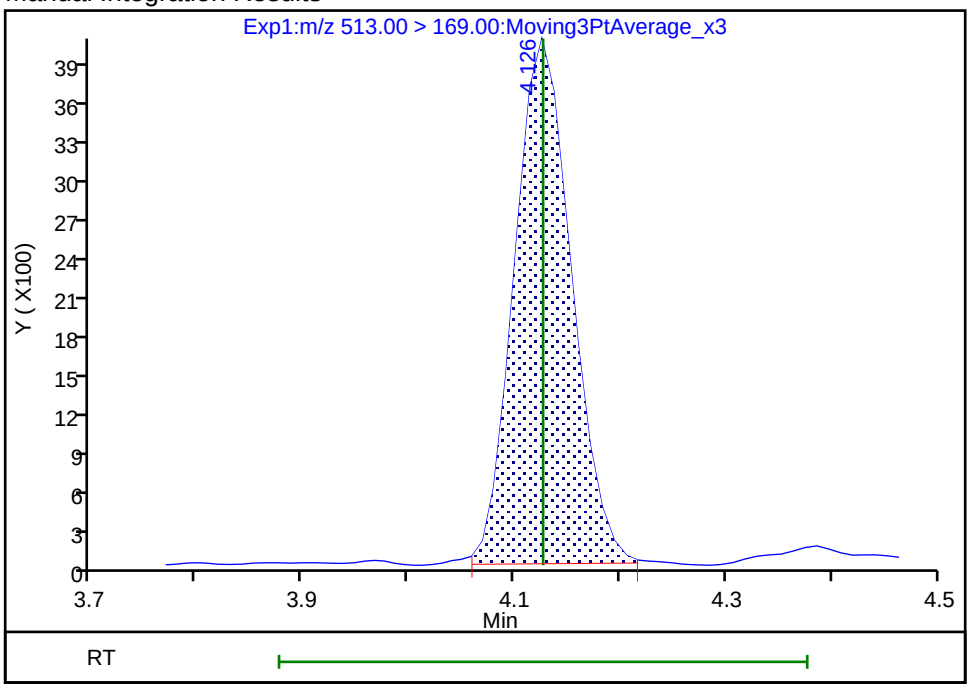
Processing Integration Results

RT: 4.13
Area: 15045
Amount: 0.106034
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 15066
Amount: 0.106374
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:41:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

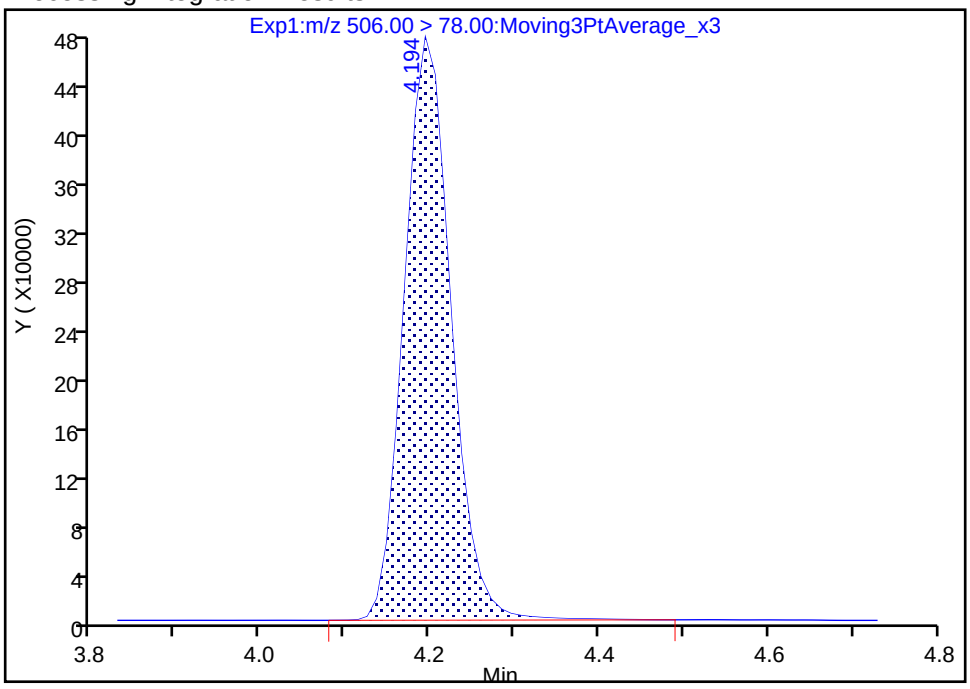
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

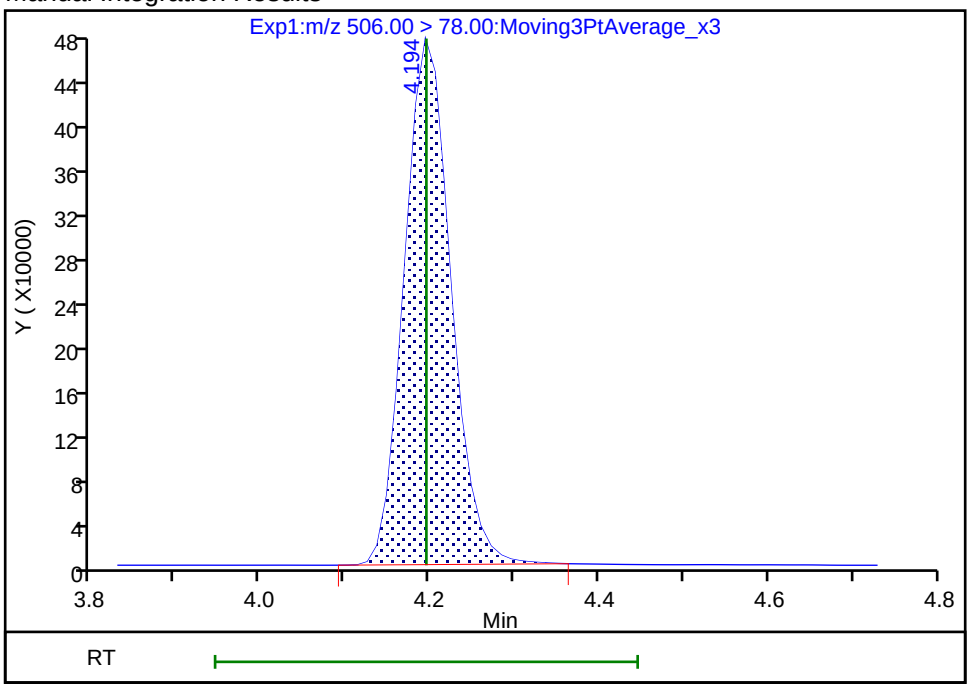
Processing Integration Results

RT: 4.19
Area: 1805905
Amount: 1.208280
Amount Units: ng/ml



Manual Integration Results

RT: 4.19
Area: 1793869
Amount: 1.213525
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:41:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

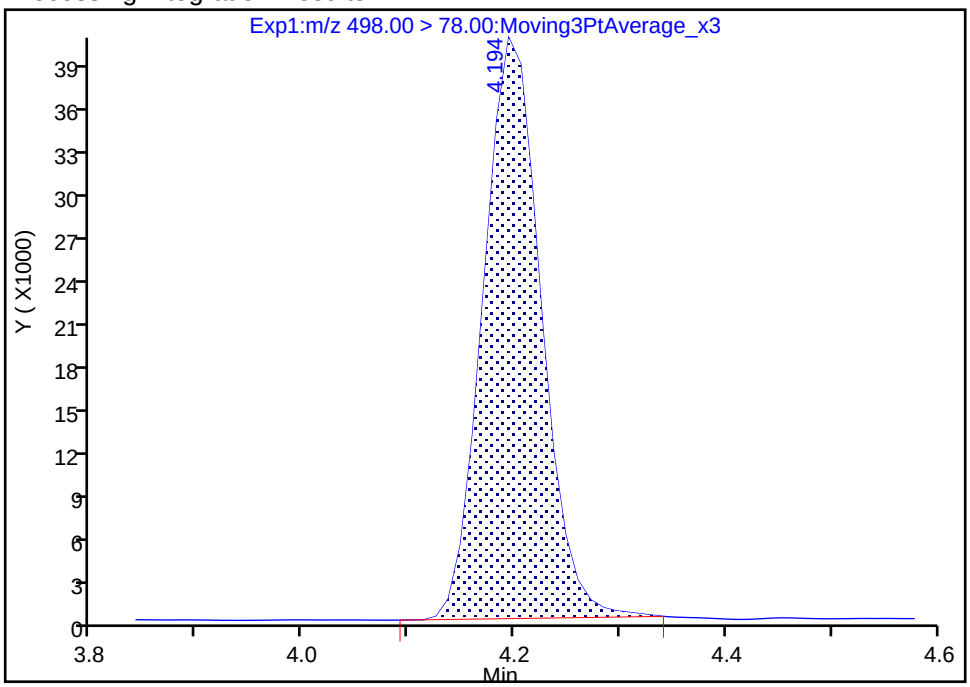
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

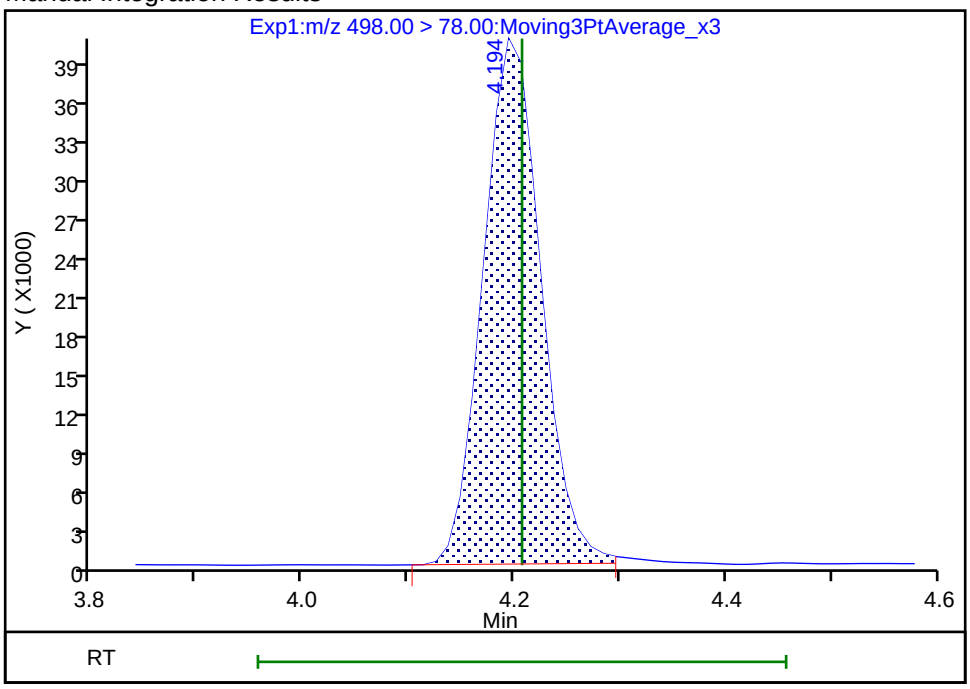
Processing Integration Results

RT: 4.19
Area: 152110
Amount: 0.103083
Amount Units: ng/ml



Manual Integration Results

RT: 4.19
Area: 151919
Amount: 0.104325
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:41:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

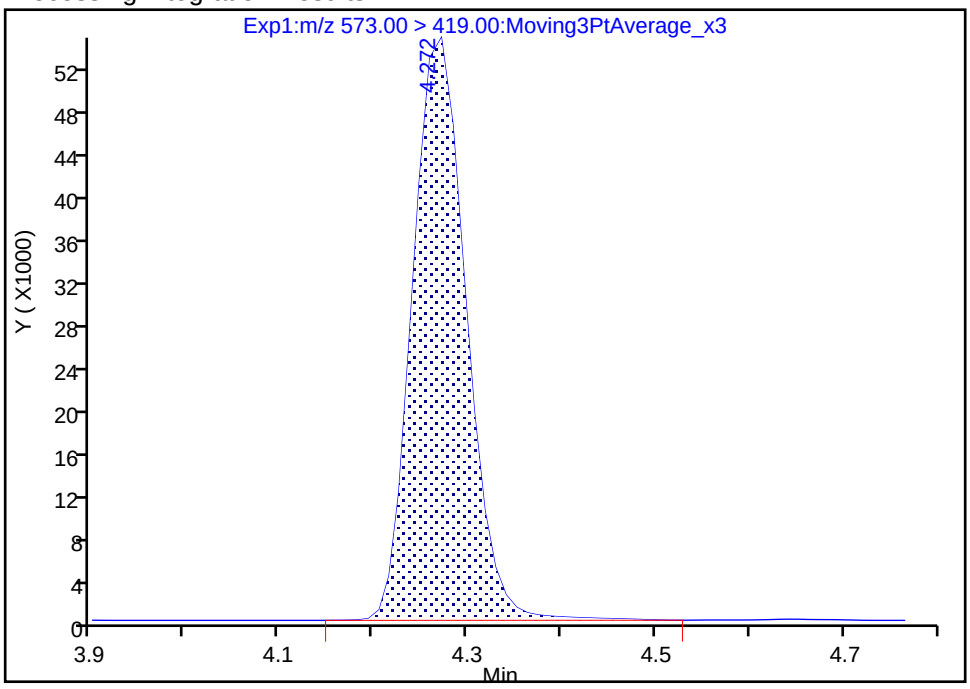
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

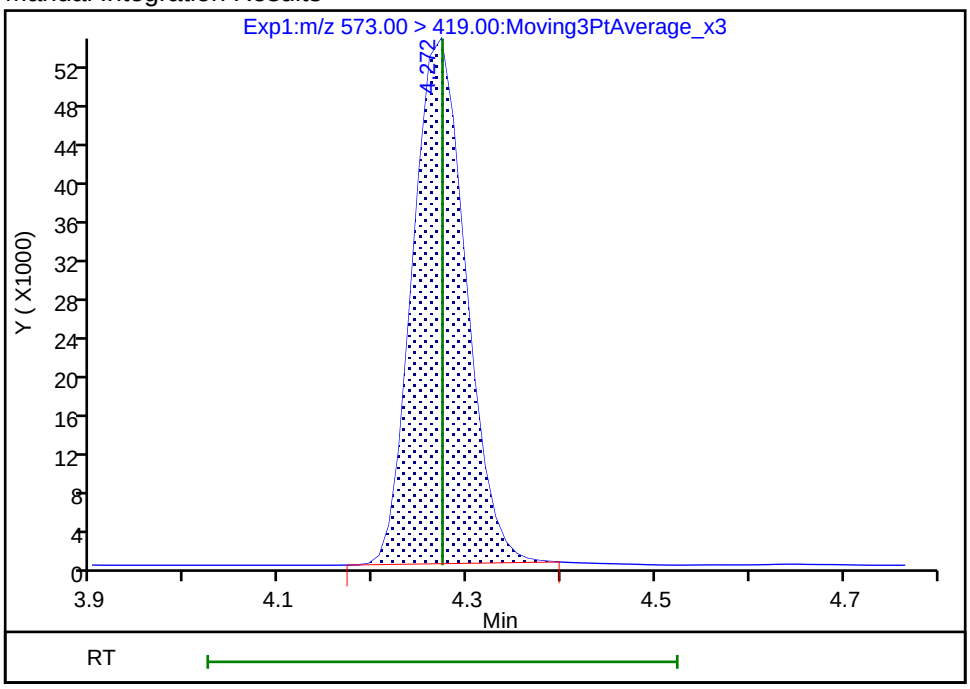
Processing Integration Results

RT: 4.27
Area: 216281
Amount: 1.192473
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 212896
Amount: 1.193736
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:41:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

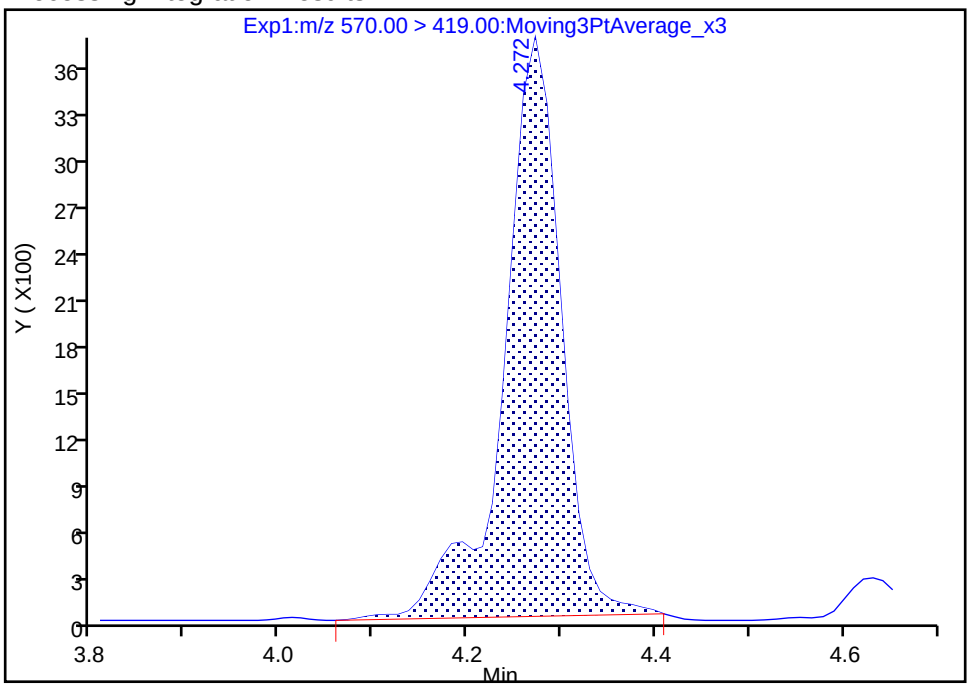
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

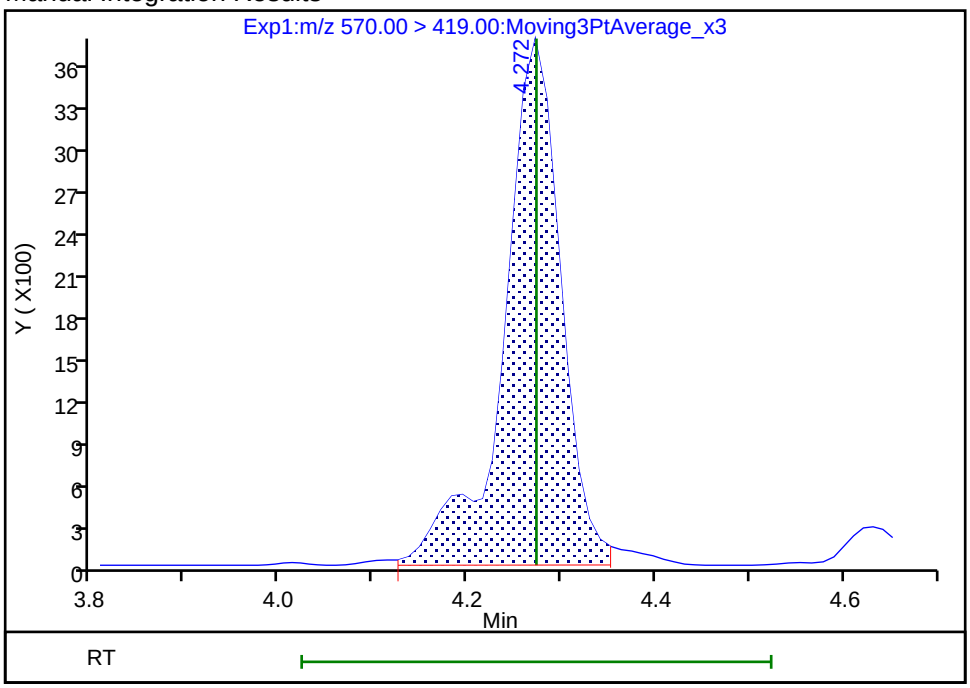
Processing Integration Results

RT: 4.27
Area: 15669
Amount: 0.100456
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 15705
Amount: 0.101395
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:41:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

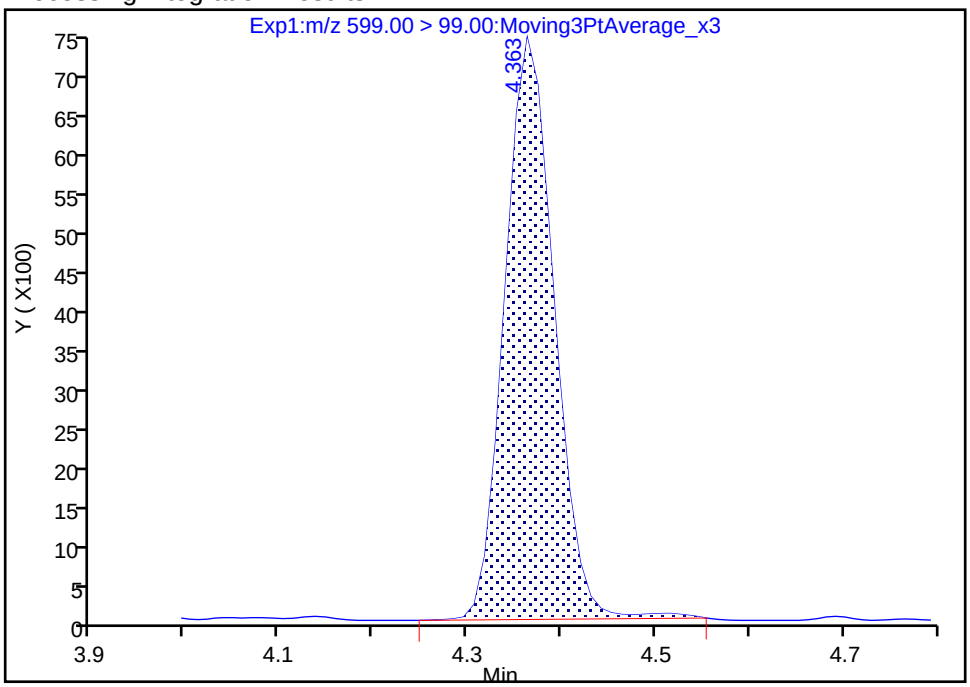
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

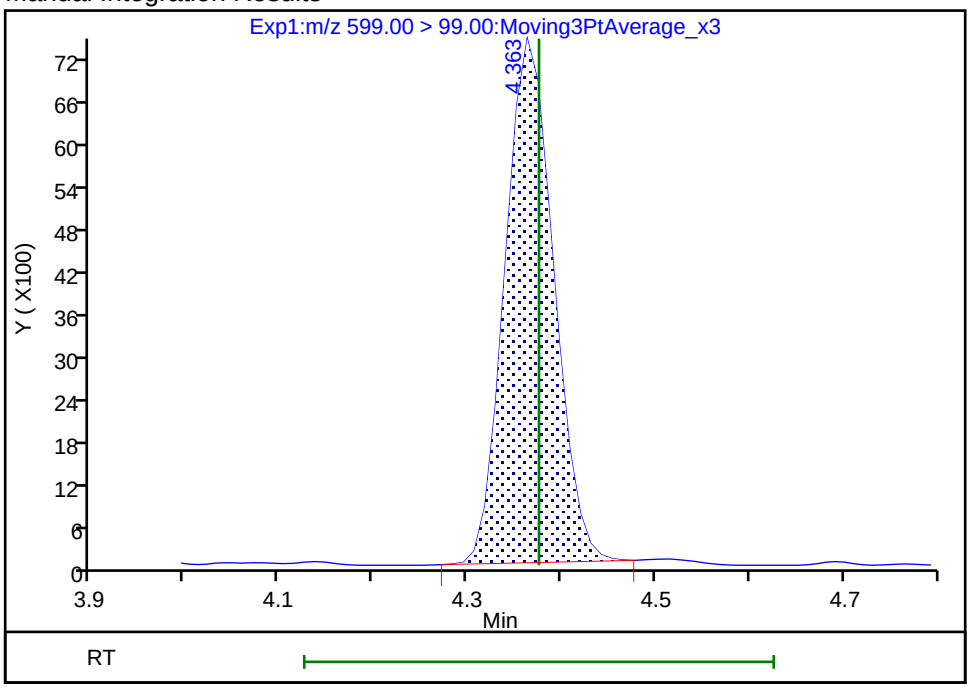
Processing Integration Results

RT: 4.36
Area: 27304
Amount: 0.100464
Amount Units: ng/ml



Manual Integration Results

RT: 4.36
Area: 26766
Amount: 0.105314
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:41:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

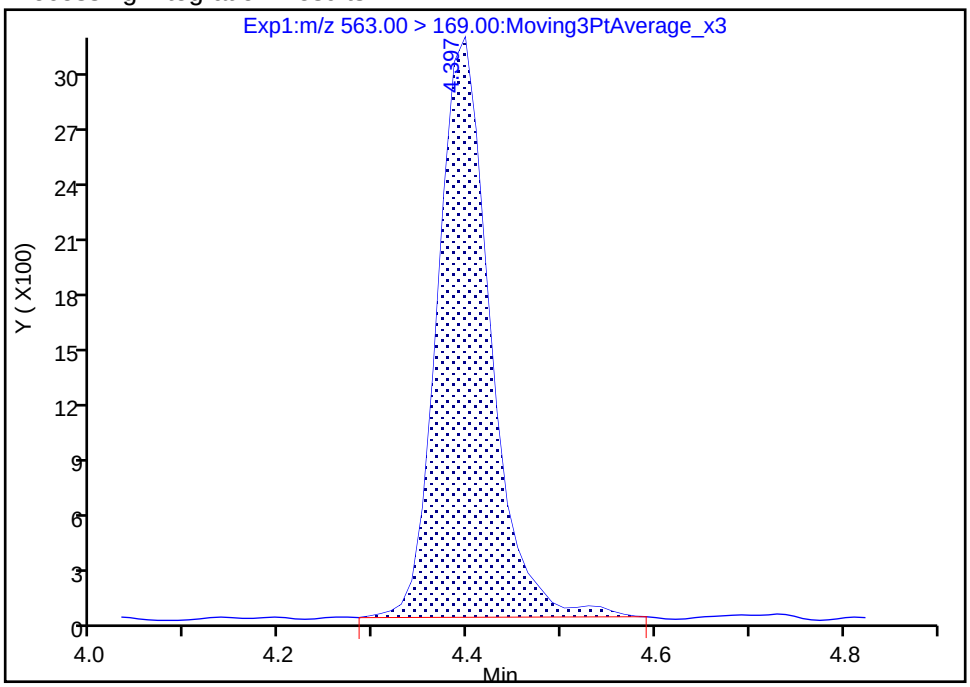
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

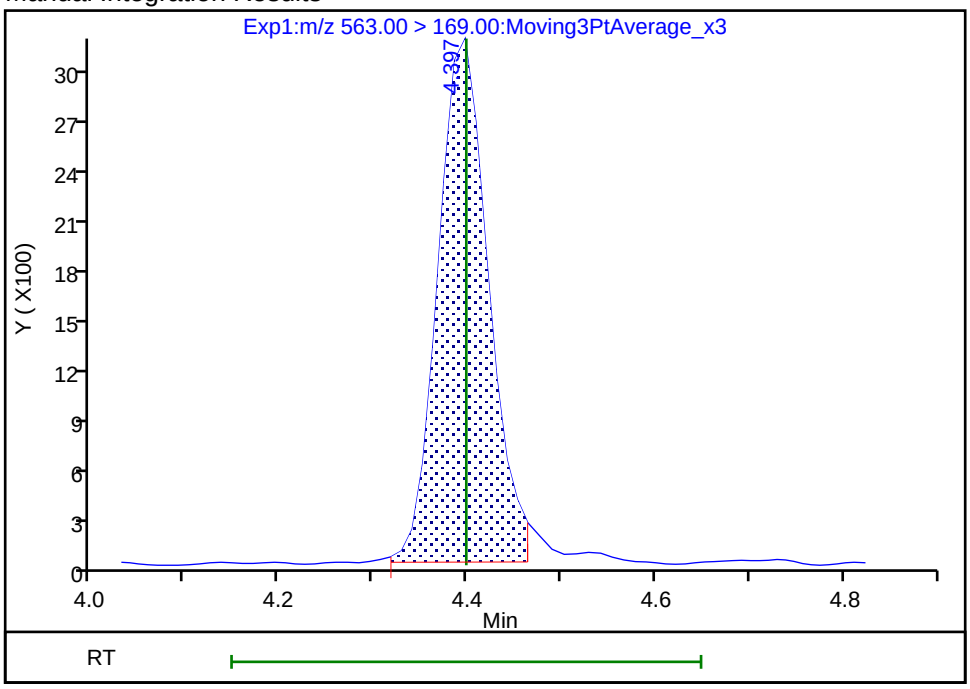
Processing Integration Results

RT: 4.40
Area: 12345
Amount: 0.093837
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 11827
Amount: 0.094757
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:42:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

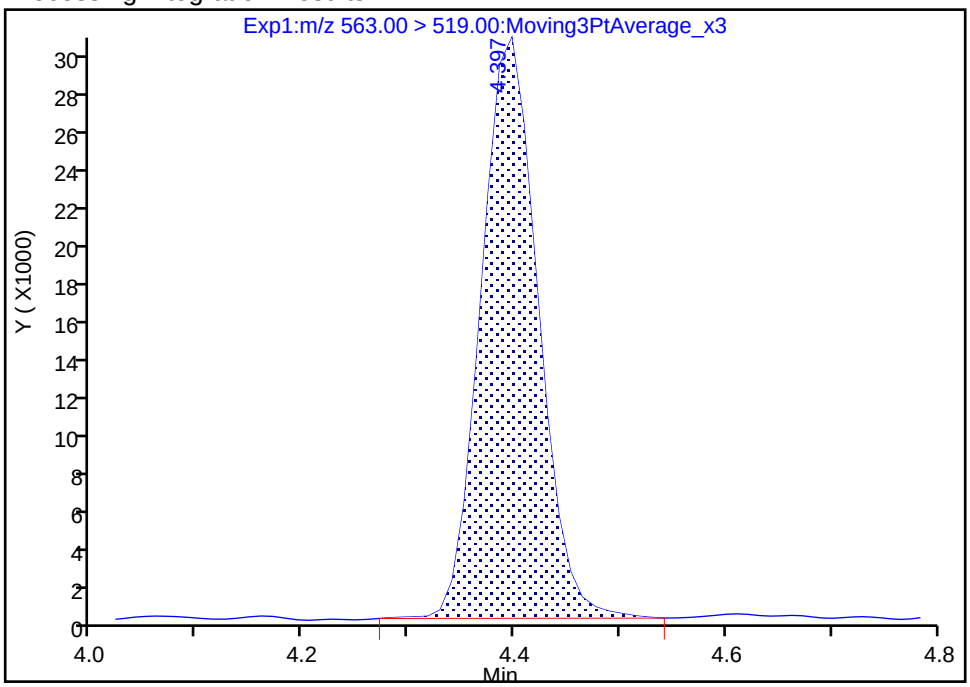
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

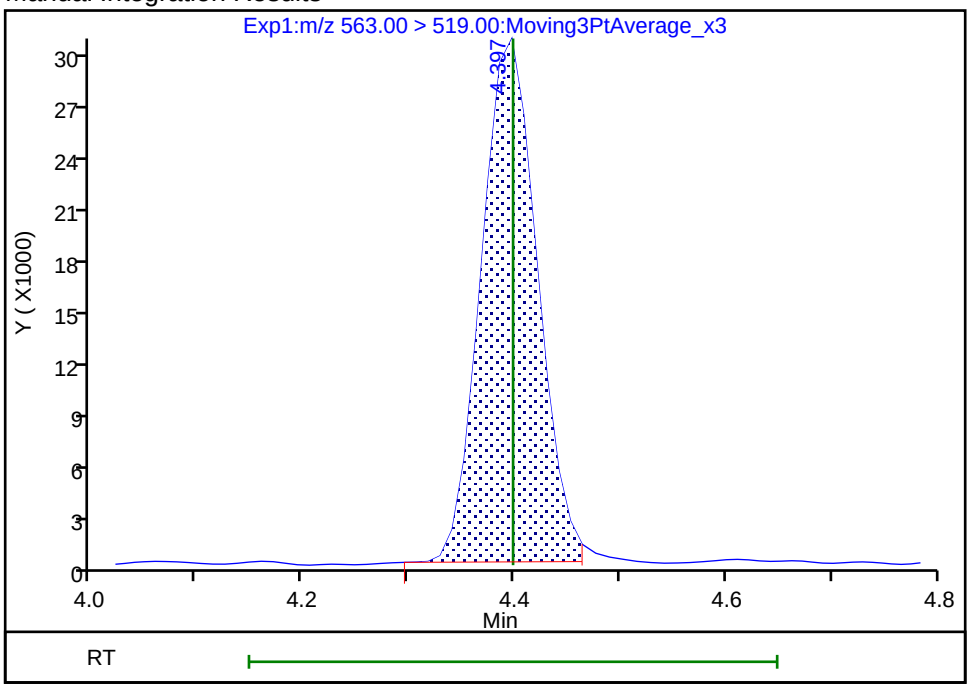
Processing Integration Results

RT: 4.40
Area: 114138
Amount: 0.093837
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 111834
Amount: 0.094757
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:42:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

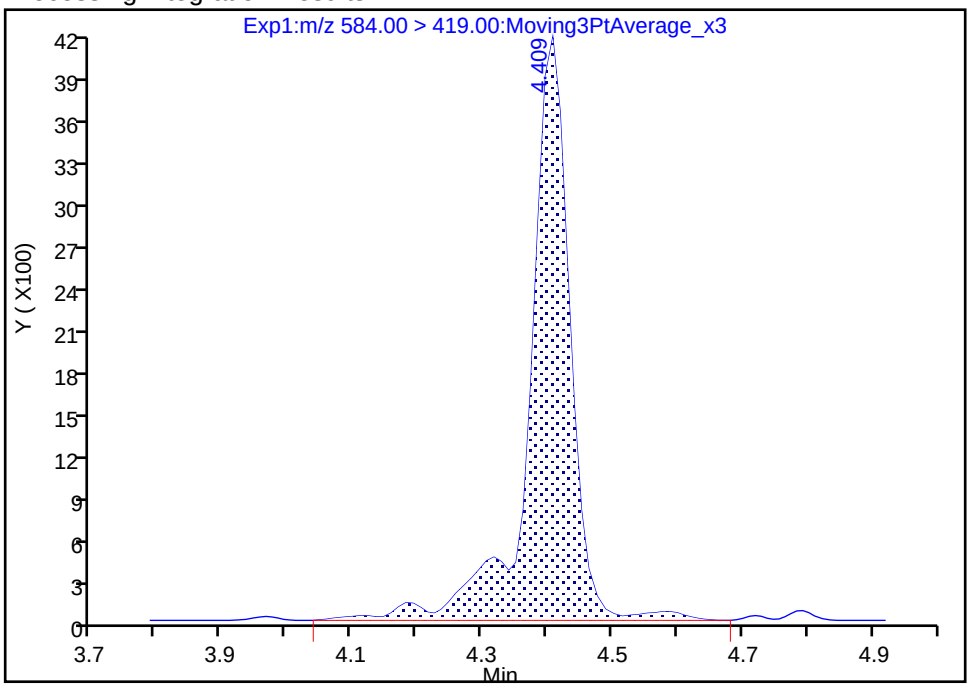
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

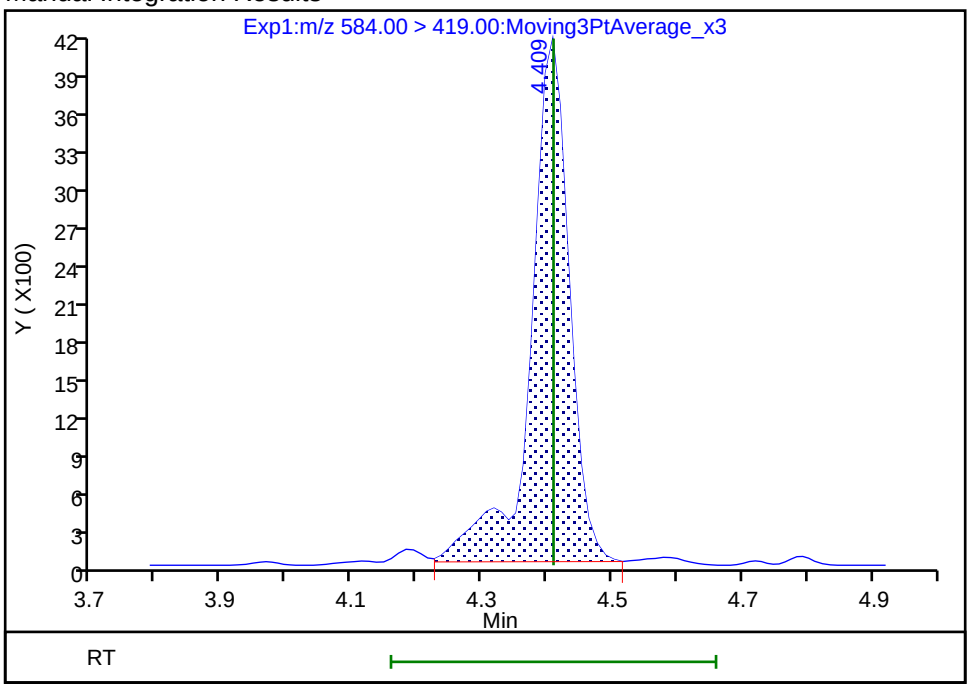
Processing Integration Results

RT: 4.41
Area: 18203
Amount: 0.106410
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 16891
Amount: 0.102081
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:42:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

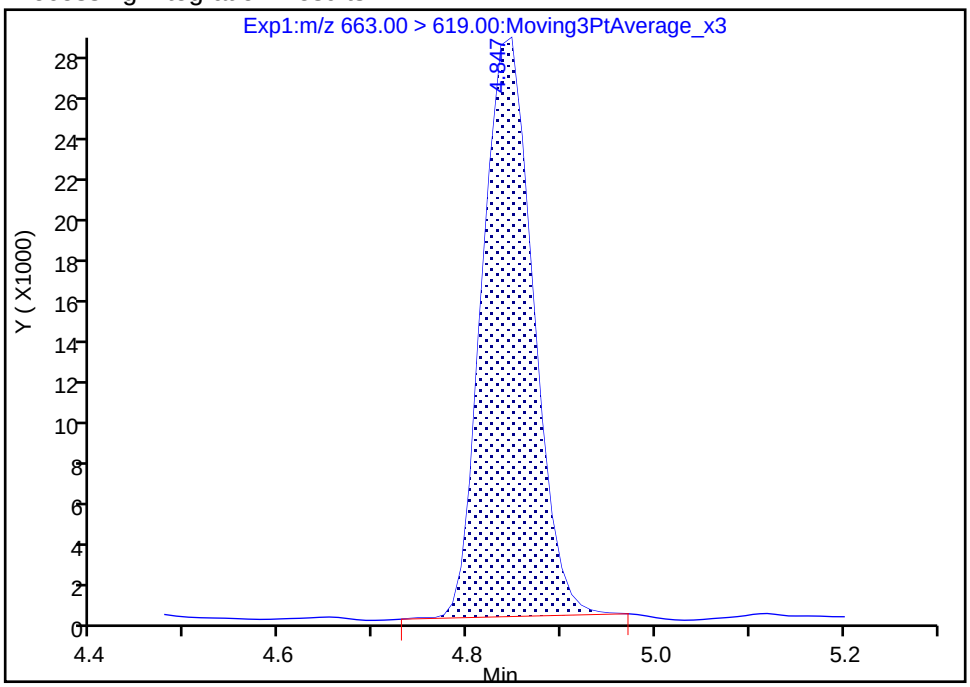
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

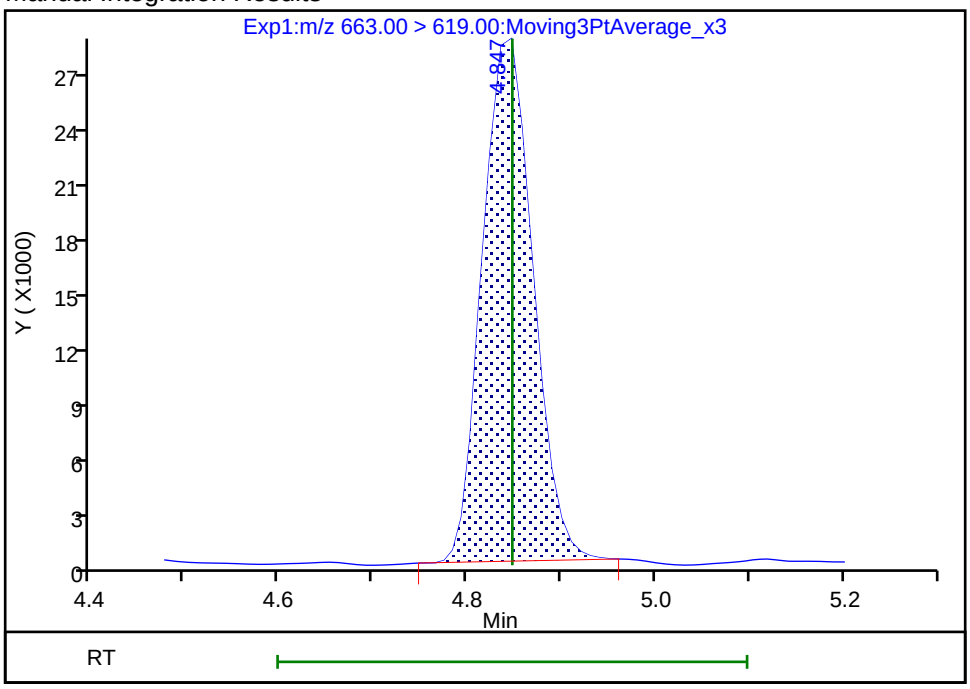
Processing Integration Results

RT: 4.85
Area: 105164
Amount: 0.104145
Amount Units: ng/ml



Manual Integration Results

RT: 4.85
Area: 104704
Amount: 0.103349
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:43:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

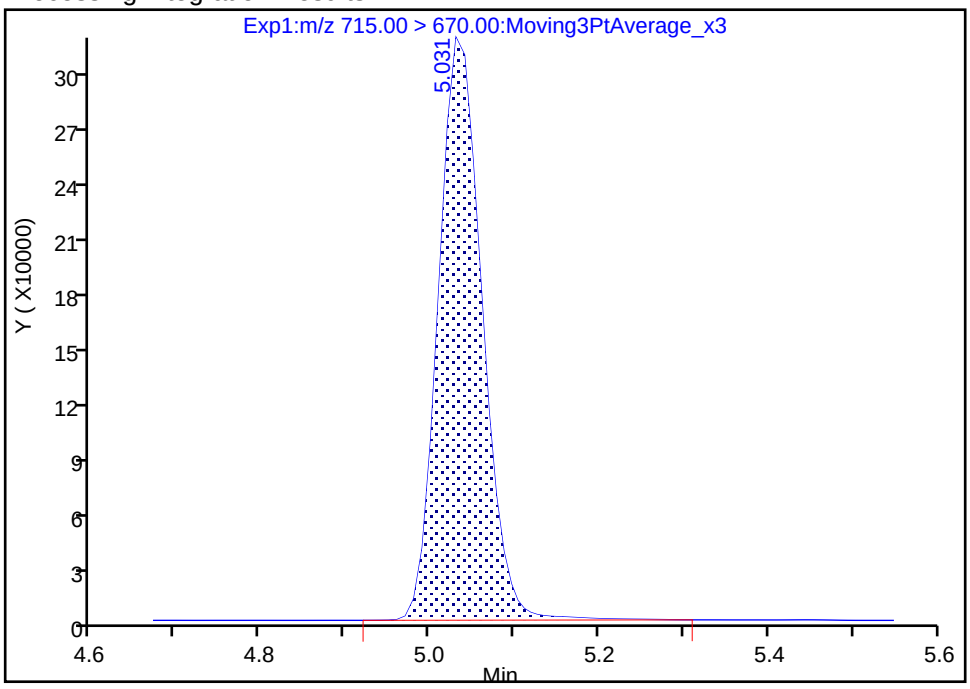
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

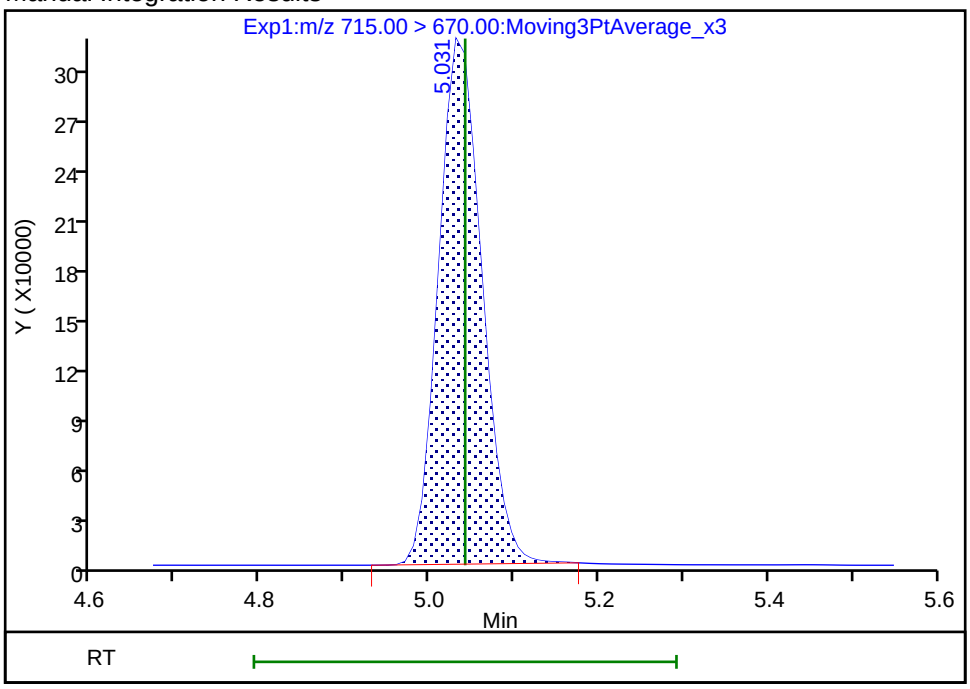
Processing Integration Results

RT: 5.03
Area: 1124806
Amount: 1.275688
Amount Units: ng/ml



Manual Integration Results

RT: 5.03
Area: 1112193
Amount: 1.181176
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:43:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

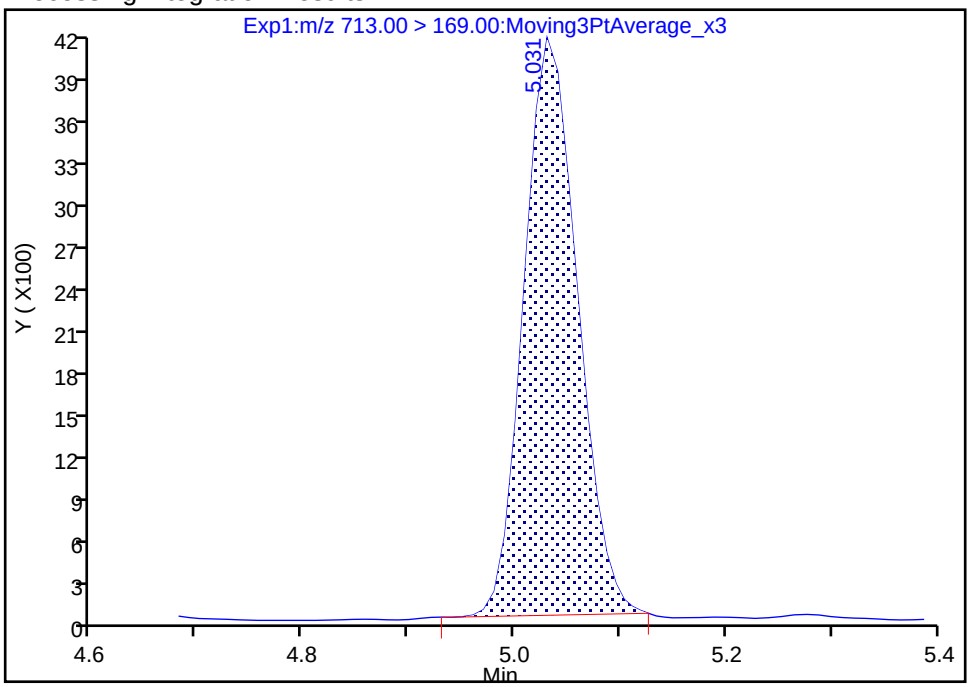
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

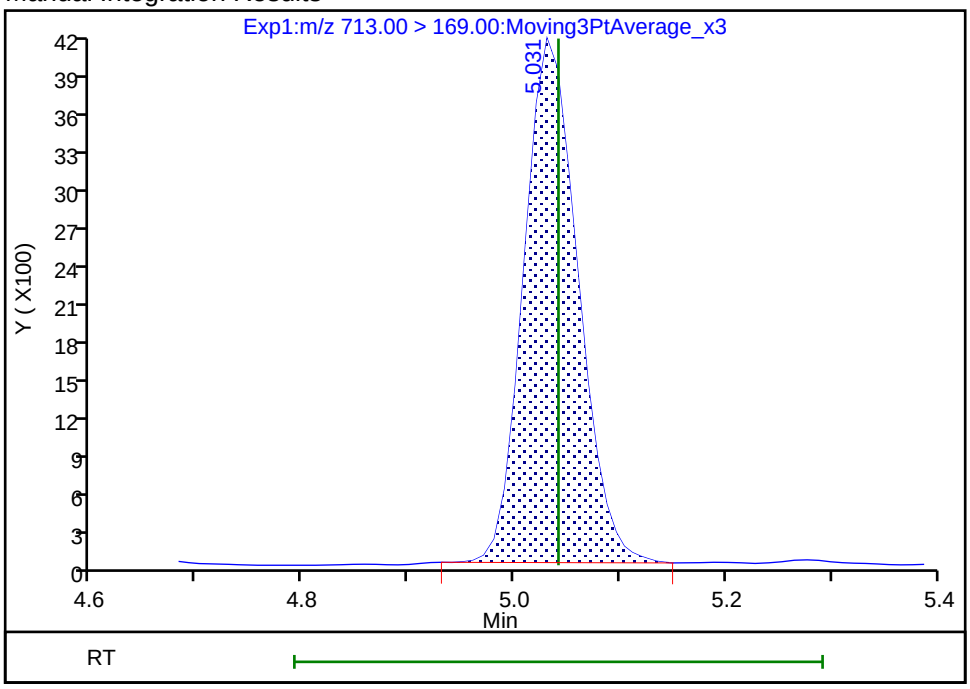
Processing Integration Results

RT: 5.03
Area: 14333
Amount: 0.100303
Amount Units: ng/ml



Manual Integration Results

RT: 5.03
Area: 14521
Amount: 0.105621
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:43:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

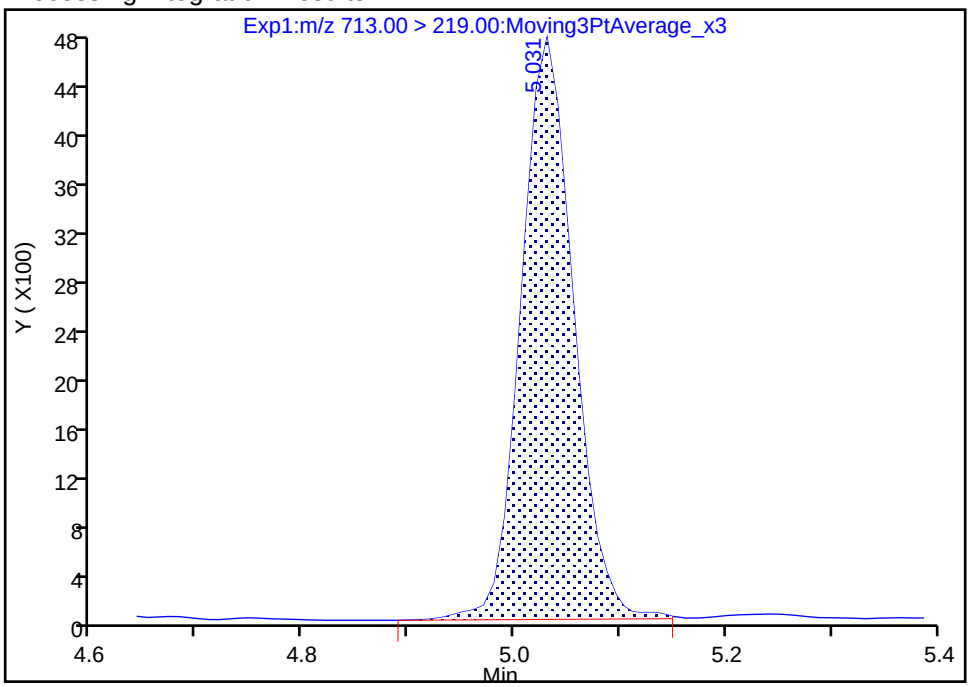
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d				
Injection Date:	05-May-2022 15:21:46	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

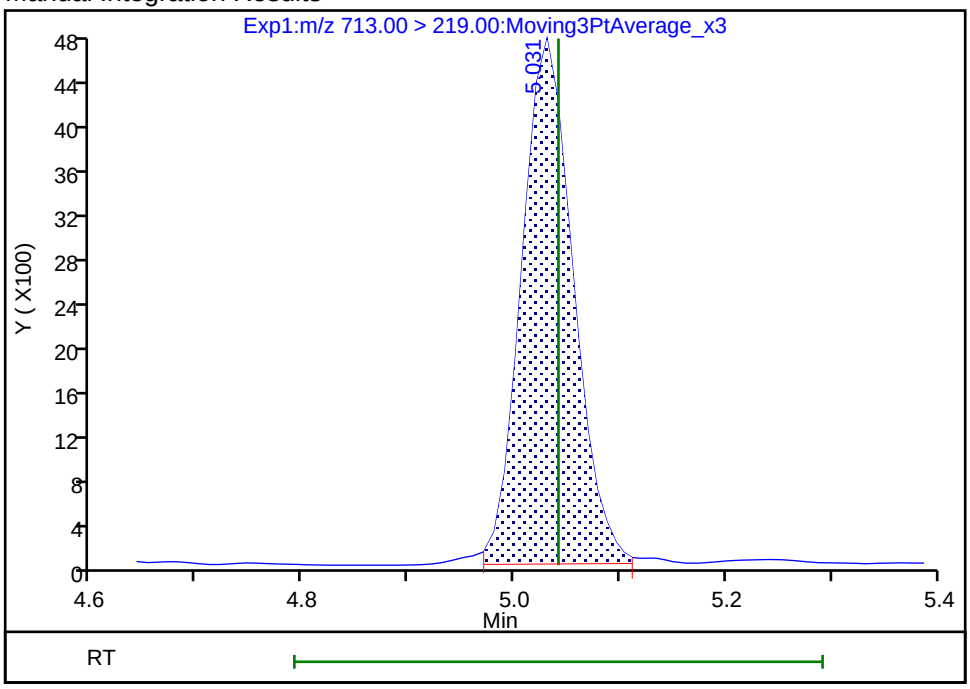
Processing Integration Results

RT: 5.03
Area: 16301
Amount: 0.100303
Amount Units: ng/ml



Manual Integration Results

RT: 5.03
Area: 16002
Amount: 0.105621
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:43:29

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

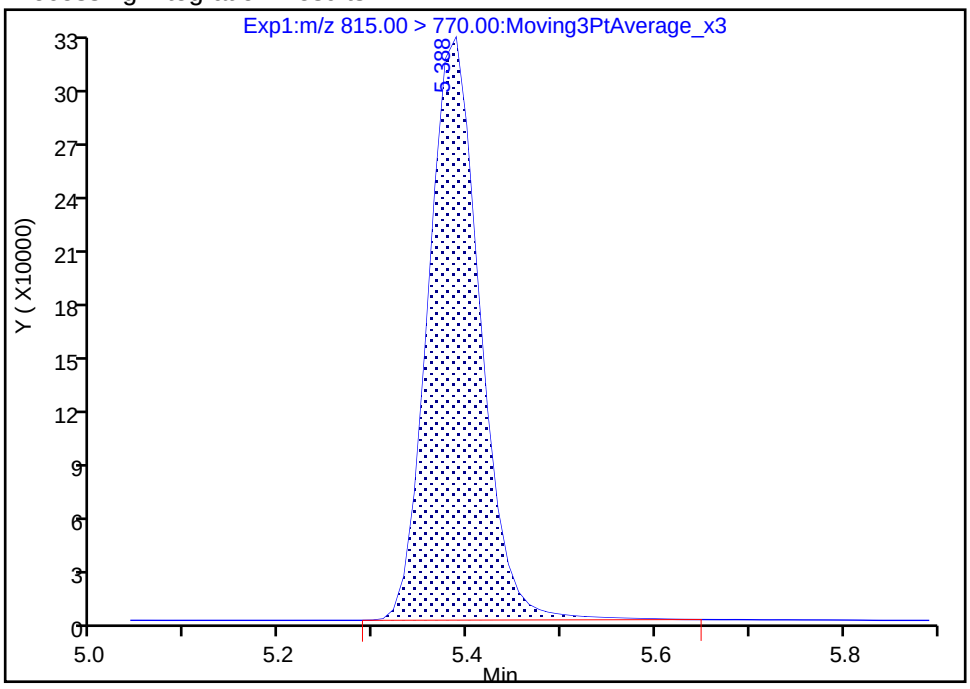
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

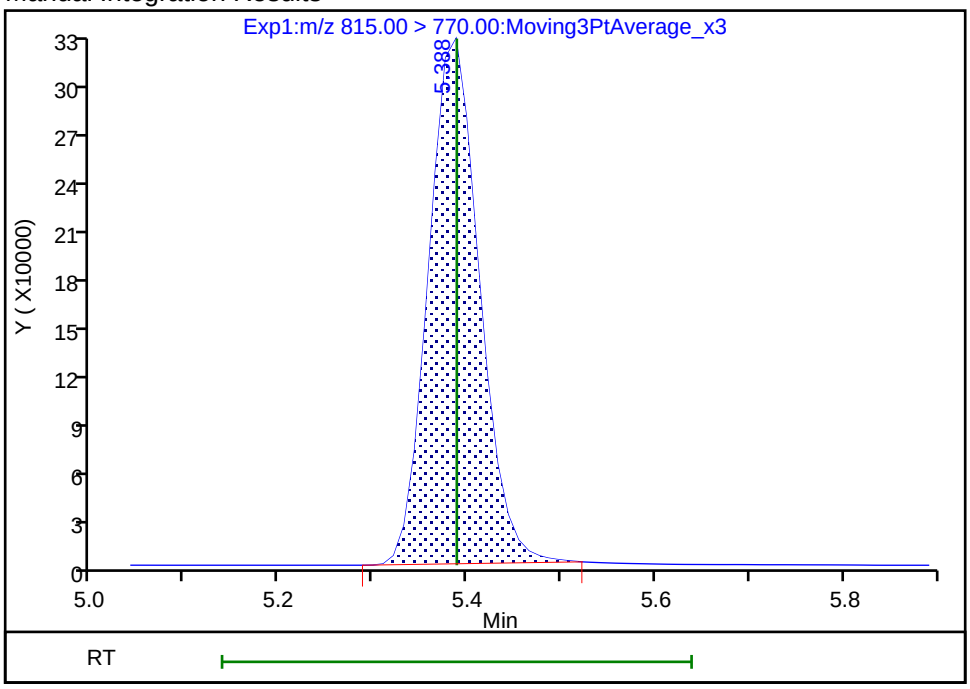
Processing Integration Results

RT: 5.39
Area: 1245890
Amount: 1.308665
Amount Units: ng/ml



Manual Integration Results

RT: 5.39
Area: 1228255
Amount: 1.258419
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:43:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

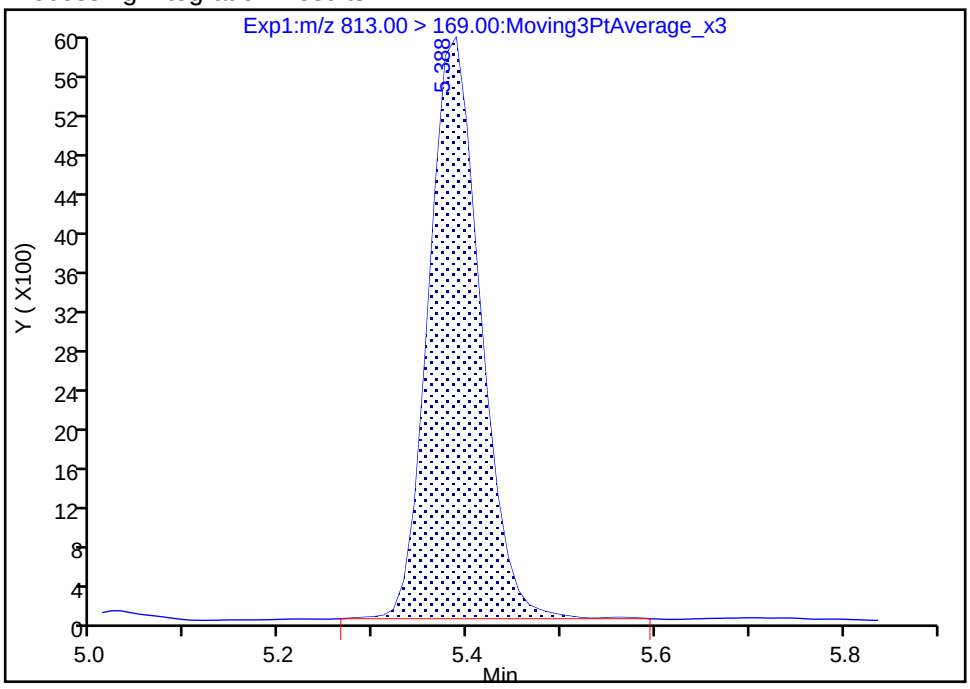
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

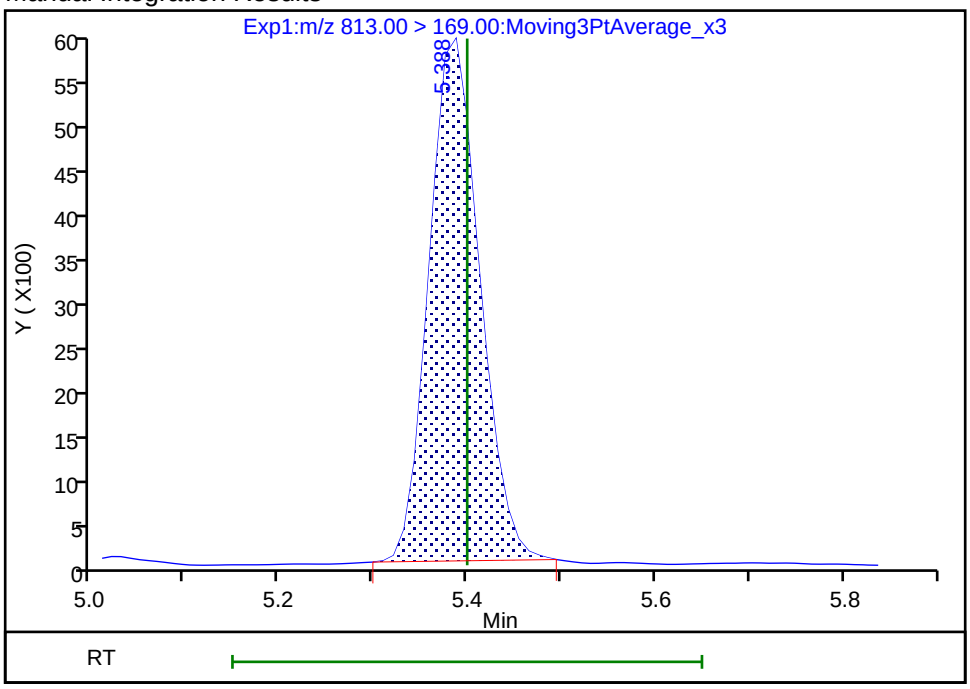
Processing Integration Results

RT: 5.39
Area: 22726
Amount: 0.097681
Amount Units: ng/ml



Manual Integration Results

RT: 5.39
Area: 22234
Amount: 0.100095
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:43:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

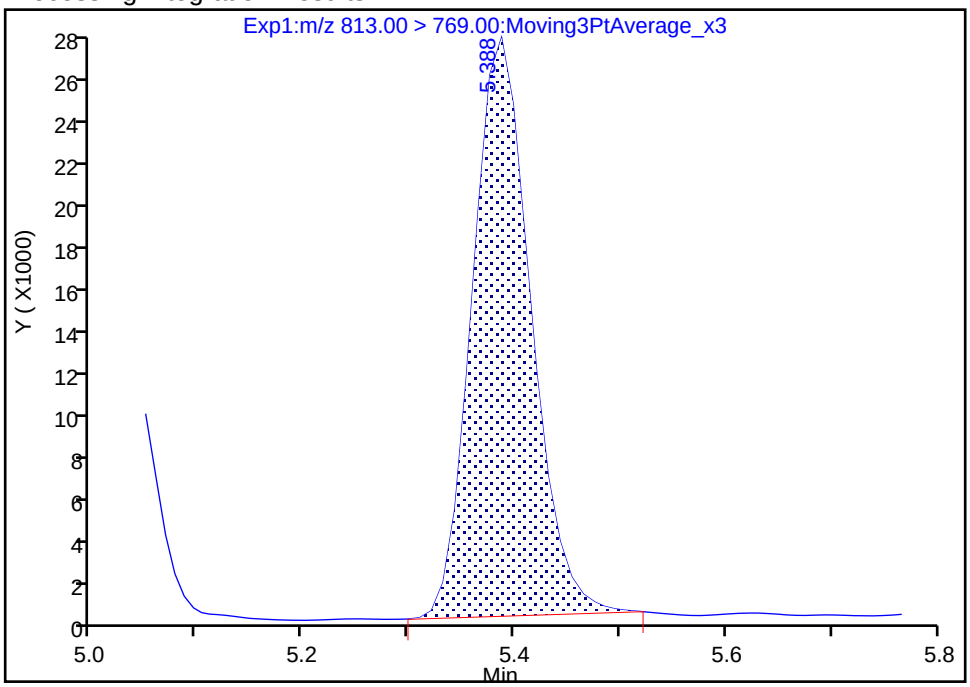
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

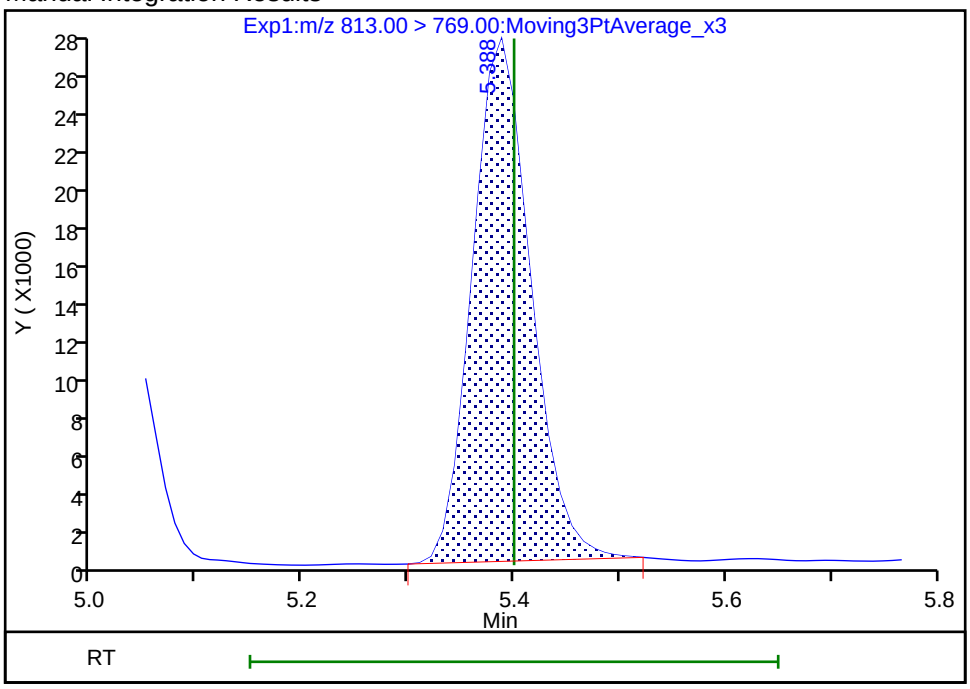
Processing Integration Results

RT: 5.39
Area: 103667
Amount: 0.097681
Amount Units: ng/ml



Manual Integration Results

RT: 5.39
Area: 103574
Amount: 0.100095
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:43:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

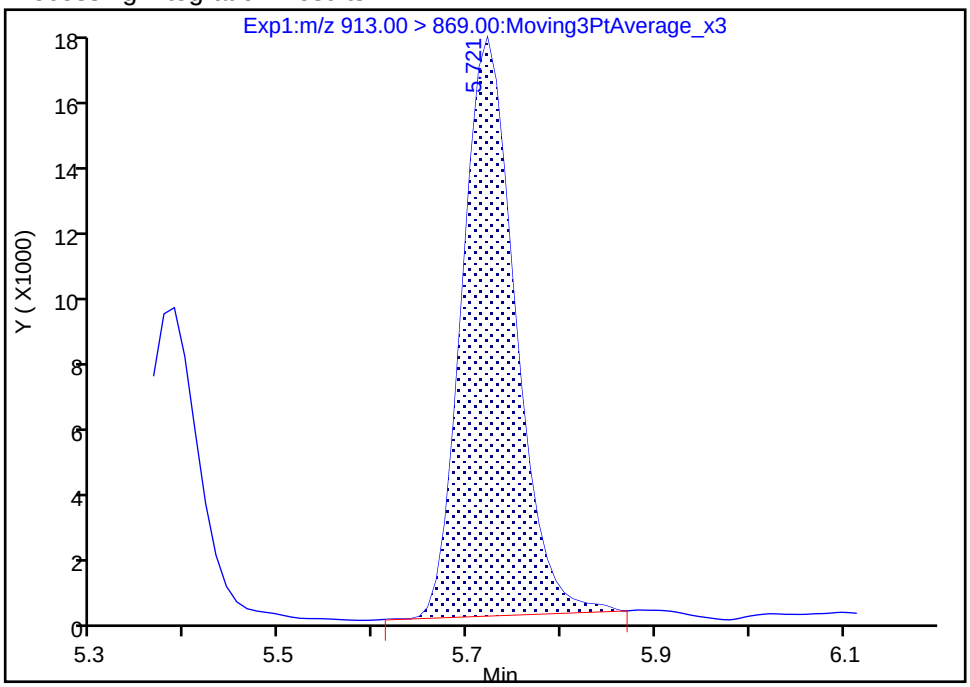
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

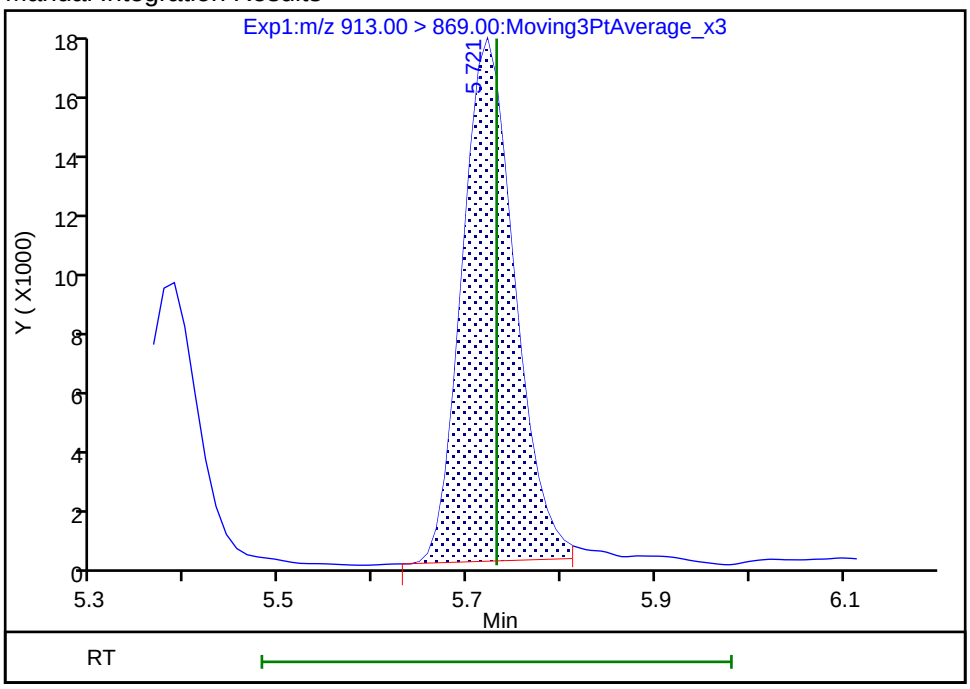
Processing Integration Results

RT: 5.72
Area: 67303
Amount: 0.092450
Amount Units: ng/ml



Manual Integration Results

RT: 5.72
Area: 66537
Amount: 0.097203
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:43:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

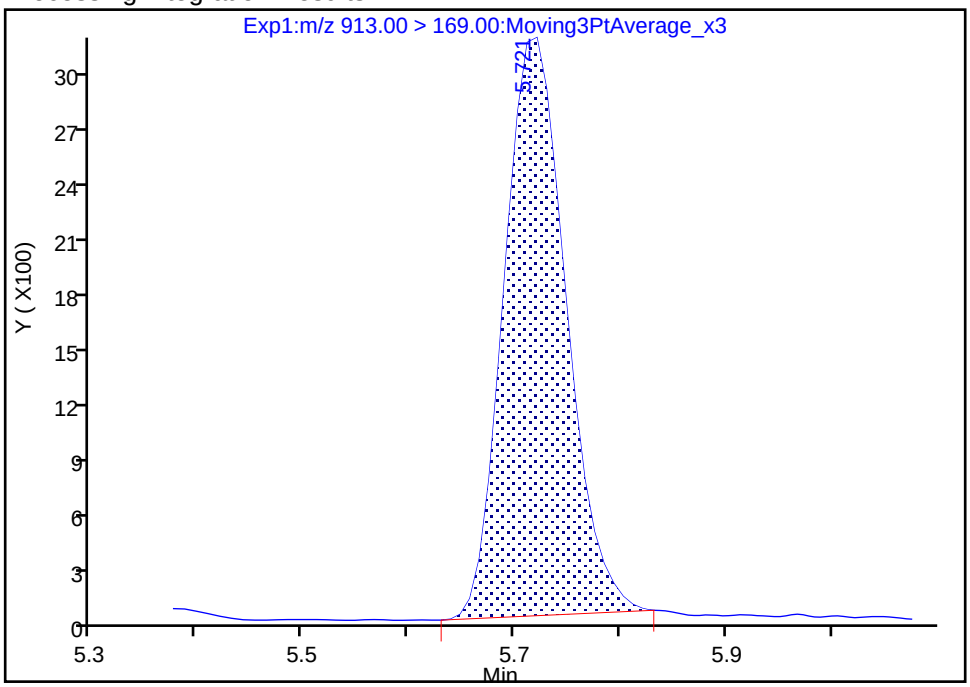
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL06.d
Injection Date: 05-May-2022 15:21:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

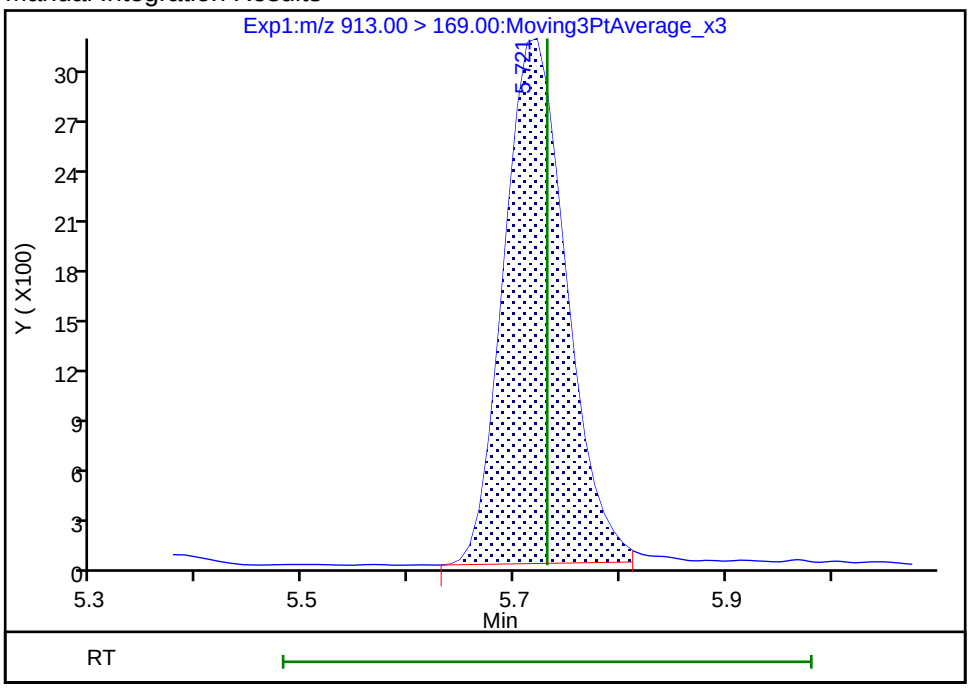
Processing Integration Results

RT: 5.72
Area: 12705
Amount: 0.092450
Amount Units: ng/ml



Manual Integration Results

RT: 5.72
Area: 12850
Amount: 0.097203
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:44:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 05-May-2022 15:29:57 ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 200-0050718-007 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 05-May-2022 16:23:27 Calib Date: 05-May-2022 15:54:29
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1631

First Level Reviewer: deannd Date: 05-May-2022 16:23:27
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.094	2.102	-0.008	1.000	701576	0.5193		104	161	M
D 1 13C4 PFBA										M
217.00 > 172.00	2.094	2.102	-0.008	0.600	1789335	1.23		98.7	8826	M
D 3 13C5 PFPeA										M
267.90 > 223.00	2.413	2.413	0.0	0.691	1363294	1.23		98.4	2406	M
4 Perfluoropentanoic acid										
262.90 > 219.00	2.413	2.413	0.0	1.000	603035	0.5425		109	33.9	
D 47 13C3 PFBS										
301.90 > 80.00	2.427	2.427	0.0	0.695	1821993	1.13		97.5	209894	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.427	2.440	-0.013	1.000	789553	0.4622	Target=2.18	105	962	M
298.90 > 99.00	2.427	2.440	-0.013	1.000	369679		2.14(1.09-3.27)	105	232	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.725	2.738	-0.013	1.000	154627	0.4624		99.0	1247	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.725	2.738	-0.013	0.781	155519	1.17		100	176	
D 7 13C2 PFHxA										M
315.00 > 270.00	2.762	2.774	-0.012	0.791	1386720	1.22		97.9	2375	M
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.762	2.774	-0.012	1.000	630224	0.5263	Target=12.96	105	86.7	M
313.00 > 119.00	2.762	2.774	-0.012	1.000	48963		12.87(6.48-19.44)	105	38.6	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.774	2.774	0.0	0.886	727041	0.4902	Target=3.01	105	804	M
349.00 > 99.00	2.774	2.774	0.0	0.886	245880		2.96(1.50-4.51)	105	442	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.871	2.884	-0.013	1.000	104231	0.5175		104	1044	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										M
287.00 > 169.00	2.871	2.884	-0.013	0.822	230708	1.19		95.1	1580	M
D 11 18O2 PFHxS										M
403.00 > 84.00	3.132	3.132	0.0	0.897	1420232	1.13		95.5	1370	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.132	3.132	0.0	1.000	607640	0.4577	Target=3.51	101	863	M
399.00 > 99.00	3.132	3.132	0.0	1.000	173675		3.50(1.76-5.27)	101	204	M
D 9 13C4 PFHpA										M
367.00 > 322.00	3.132	3.143	-0.011	0.897	1497120	1.22		97.9	1805	M
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.132	3.143	-0.011	1.000	611466	0.5052	Target=3.71	101	147	
363.00 > 169.00	3.132	3.143	-0.011	1.000	165932		3.69(1.86-5.57)	101	167	
77 DONA										M
377.00 > 251.00	3.176	3.176	0.0	0.835	1505829	0.5050	Target=2.68	107	1267	M
377.00 > 85.00	3.176	3.176	0.0	0.835	557201		2.70(1.34-4.03)	107	817	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.474	3.482	-0.008	0.914	562768	0.5017	Target=5.10	105	778	M
449.00 > 99.00	3.474	3.482	-0.008	0.914	114657		4.91(2.55-7.66)	105	333	M
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.474	3.482	-0.008	1.000	166760	0.5009		106	186	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.474	3.482	-0.008	0.995	244497	1.19		100	537	
D 14 13C4 PFOA										M
417.00 > 372.00	3.491	3.491	0.0	1.000	1548287	1.20		96.3	1765	M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.491	3.500	-0.009	1.000	727519	0.5245	Target=2.75	105	95.3	M
413.00 > 169.00	3.491	3.500	-0.009	1.000	272337		2.67(1.37-4.12)	105	454	
* 62 13C2 PFOA										M
415.00 > 370.00	3.491	3.500	-0.009		1707772	1.25			2181	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.802	3.812	-0.010	1.000	474428	0.4761	Target=4.70	103	426	M
499.00 > 99.00	3.802	3.812	-0.010	1.000	104979		4.52(2.35-7.05)	103	442	M
D 18 13C4 PFOS										M
503.00 > 80.00	3.802	3.812	-0.010	1.089	1115109	1.13		94.5	2044	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.823	3.834	-0.011	1.000	702491	0.5250	Target=7.93	105	99.2	
463.00 > 169.00	3.823	3.834	-0.011	1.000	91179		7.70(3.97-11.90)	105	582	
D 19 13C5 PFNA										M
468.00 > 423.00	3.823	3.834	-0.011	1.095	1729455	1.24		99.0	2183	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.969	3.978	-0.009	1.044	814771	0.4948		106	1840	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.093	4.104	-0.011	1.076	388599	0.5149	Target=2.53	107	1383	
549.00 > 99.00	4.093	4.104	-0.011	1.076	153685		2.53(1.26-3.79)	107	700	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.127	4.127	0.0	1.000	730897	0.5349	Target=9.72	107	302	
513.00 > 169.00	4.127	4.127	0.0	1.000	79613		9.18(4.86-14.57)	107	373	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										M
515.00 > 470.00	4.127	4.138	-0.011	1.182	1603259	1.19		95.3	2586	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.127	4.138	-0.011	1.000	132678	0.4966		104	1767	M
D 26 M2-8:2 FTS										M
529.00 > 81.00	4.127	4.138	-0.011	1.182	287452	1.17		97.4	831	M
D 21 13C8 FOSA										M
506.00 > 78.00	4.196	4.196	0.0	1.202	1790546	1.21		96.7	1651	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.196	4.207	-0.011	1.000	737822	0.5076		102	1307	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.261	4.273	-0.012	1.221	211787	1.19		94.8	851	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.274	4.273	0.001	1.003	77891	0.5055		101	178	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.365	4.376	-0.011	1.148	296331	0.5149	Target=2.47	107	1150	M
599.00 > 99.00	4.365	4.376	-0.011	1.148	118358		2.50(1.23-3.70)	107	731	M
D 30 13C2 PFUnA										M
565.00 > 520.00	4.388	4.399	-0.011	1.257	1342382	1.24		99.4	1767	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.388	4.399	-0.011	1.000	586147	0.5296	Target=9.24	106	369	M
563.00 > 169.00	4.388	4.399	-0.011	1.000	56895		10.30(4.62-13.87)	106	479	
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.399	4.410	-0.011	1.260	204125	1.17		93.6	1233	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.410	4.410	0.0	1.003	79779	0.5208		104	564	M
66 11-Chloroeicosafluoro-3-oxaundec										M
631.00 > 451.00	4.491	4.504	-0.013	1.181	1164314	0.5111		109	1722	M
D 36 13C2 PFDoA										M
615.00 > 570.00	4.623	4.633	-0.011	1.324	1428905	1.24		99.1	2255	M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.623	4.633	-0.011	1.000	608340	0.5160	Target=7.29	103	94.3	M
613.00 > 169.00	4.623	4.633	-0.011	1.000	87106		6.98(3.64-10.93)	103	977	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.643	4.653	-0.010	1.125	68102	0.5126		106	435	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.804	4.812	-0.008	1.263	140173	0.5360	Target=0.54	111	1403	
699.00 > 99.00	4.804	4.812	-0.008	1.263	255020		0.55(0.27-0.81)	111	1662	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.837	4.848	-0.011	1.046	509549	0.5075	Target=4.74	101	90.1	M
663.00 > 169.00	4.837	4.848	-0.011	1.046	104301		4.89(2.37-7.10)	101	596	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.032	5.042	-0.010	1.000	74395	0.5330	Target=0.99	107	849	M
713.00 > 219.00	5.032	5.042	-0.010	1.000	70459		1.06(0.49-1.48)	107	787	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.032	5.042	-0.010	1.441	1129167	1.20		95.8	2149	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.378	5.388	-0.010	1.540	1136803	1.16		93.0	974	M
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.389	5.400	-0.011	1.002	462568	0.5599	Target=4.87	112	95.8	M
813.00 > 169.00	5.389	5.400	-0.011	1.002	93020		4.97(2.43-7.30)	112	611	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.722	5.731	-0.009	1.064	357707	0.5646	Target=4.95	113	92.7	M
913.00 > 169.00	5.713	5.731	-0.018	1.062	72391		4.94(2.47-7.42)	113	395	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

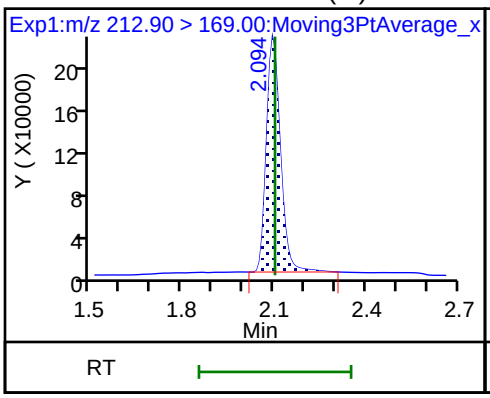
PFAS32NCIC3_00012 Amount Added: 100.00 Units: uL

Report Date: 05-May-2022 16:23:28 Chrom Revision: 2.3 02-May-2022 18:31:28

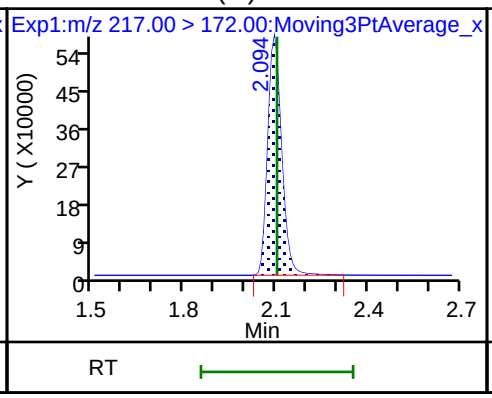
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL

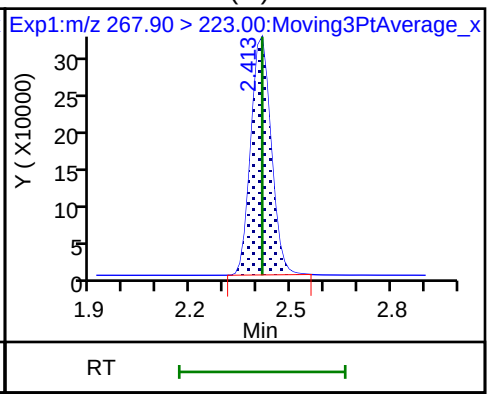
2 Perfluorobutanoic acid (M)



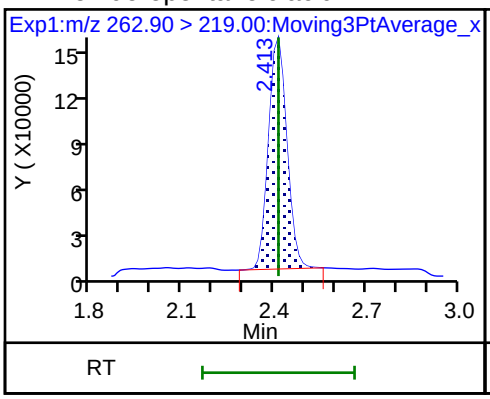
D 1 13C4 PFBA (M)



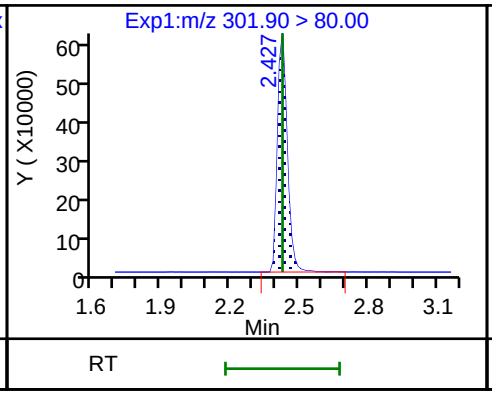
D 3 13C5 PFPeA (M)



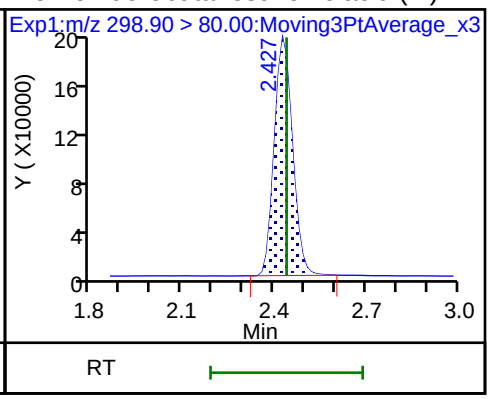
4 Perfluoropentanoic acid



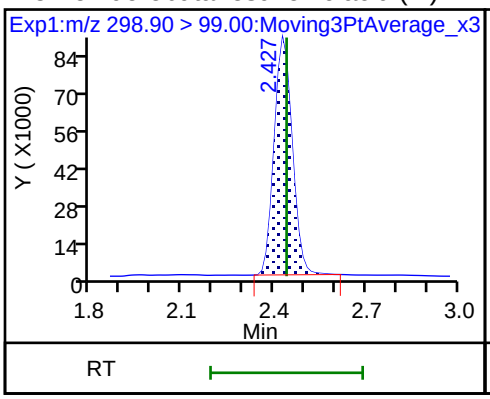
D 47 13C3 PFBS



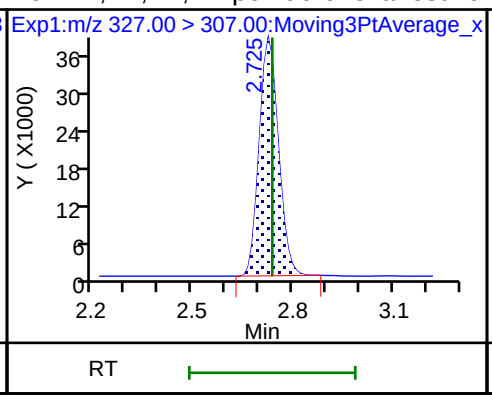
5 Perfluorobutanesulfonic acid (M)



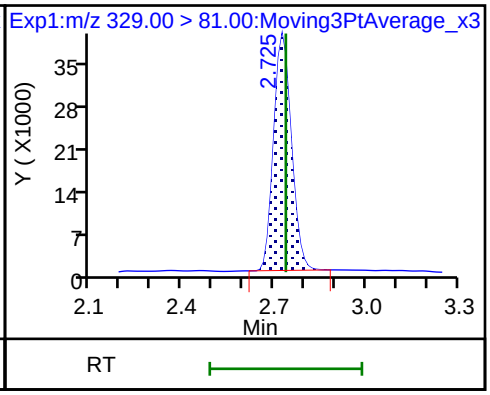
5 Perfluorobutanesulfonic acid (M)



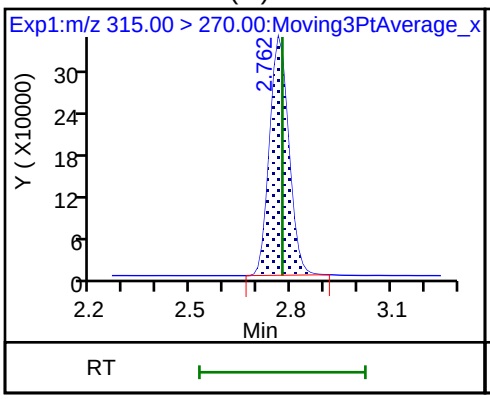
61 1H,1H,2H,2H-perfluorohexanesulfo



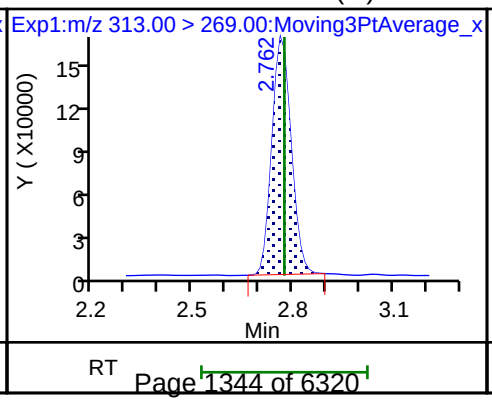
D 60 M2-4:2 FTS



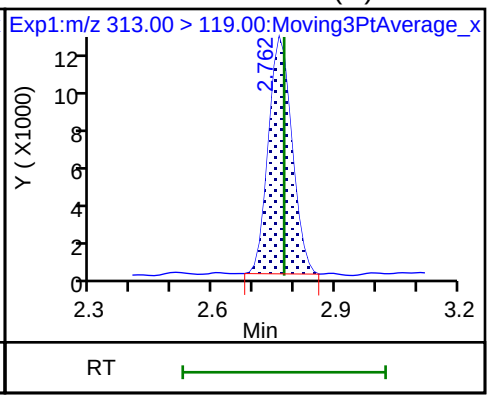
D 7 13C2 PFHxA (M)



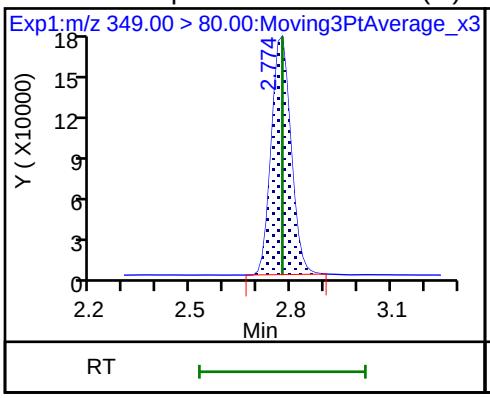
6 Perfluorohexanoic acid (M)



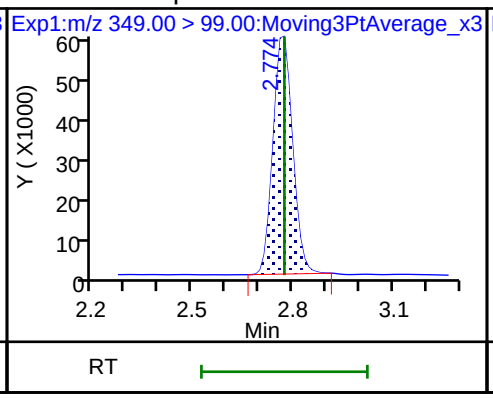
6 Perfluorohexanoic acid (M)



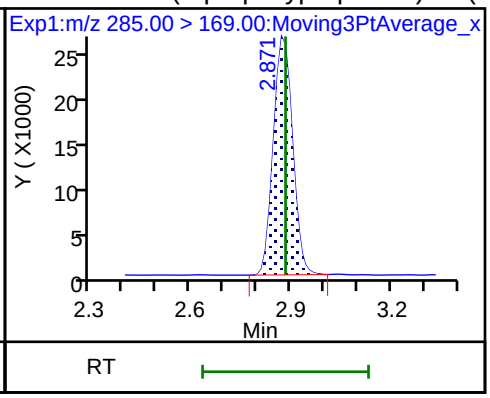
70 Perfluoropentanesulfonic acid (M)



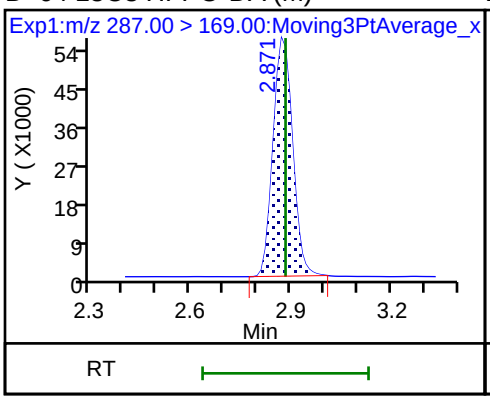
70 Perfluoropentanesulfonic acid



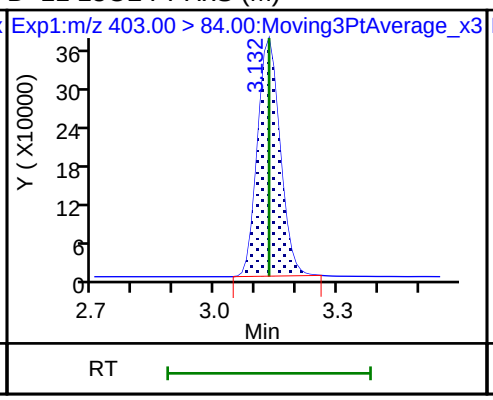
67 Perfluoro(2-propoxypropanoic) ac (M)



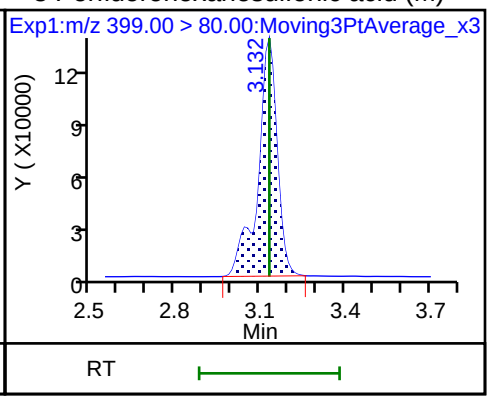
D 64 13C3 HFPO-DA (M)



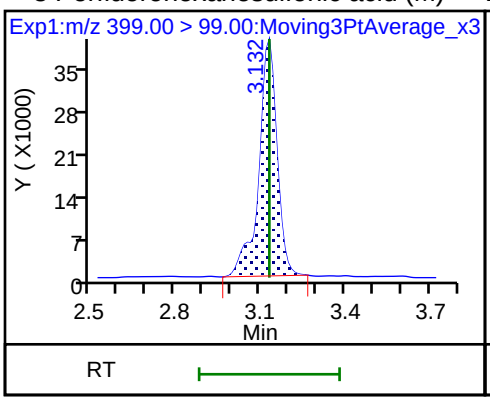
D 11 18O2 PFHxS (M)



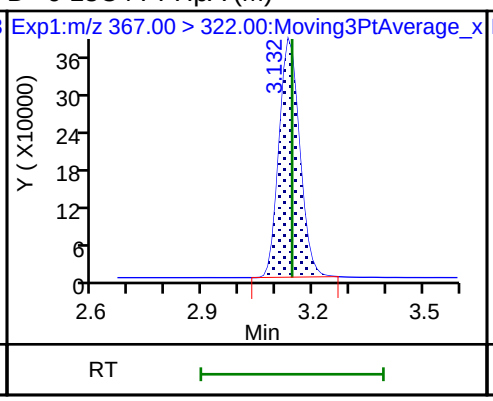
8 Perfluorohexanesulfonic acid (M)



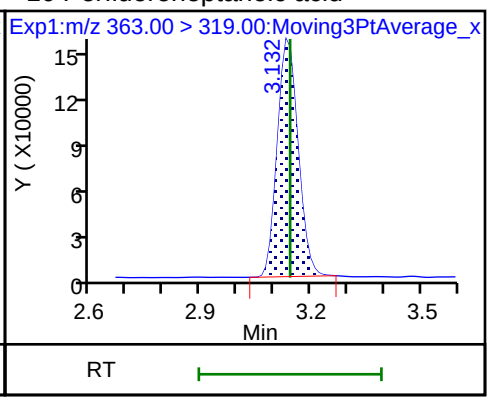
8 Perfluorohexanesulfonic acid (M)



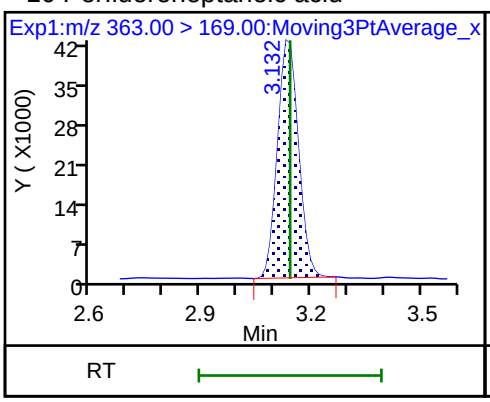
D 9 13C4 PFHpA (M)



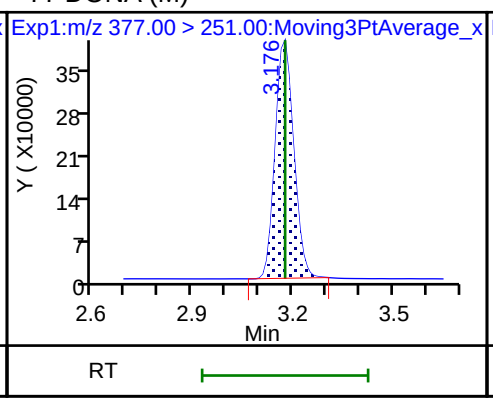
10 Perfluoroheptanoic acid



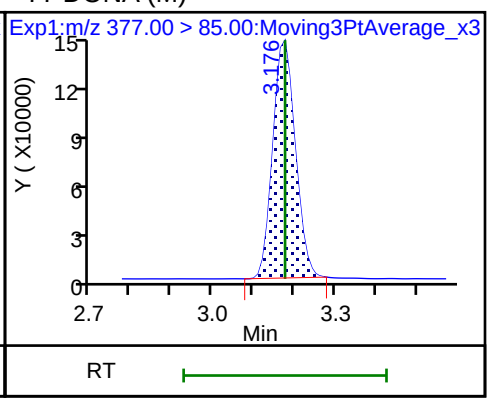
10 Perfluoroheptanoic acid



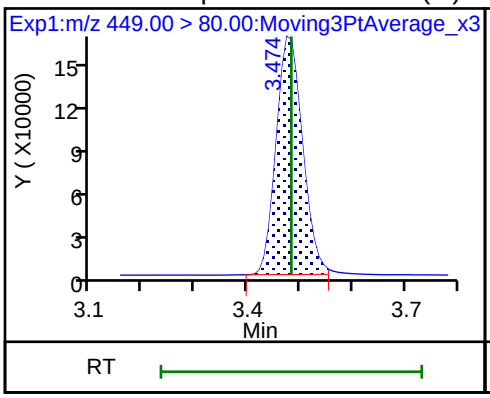
77 DONA (M)



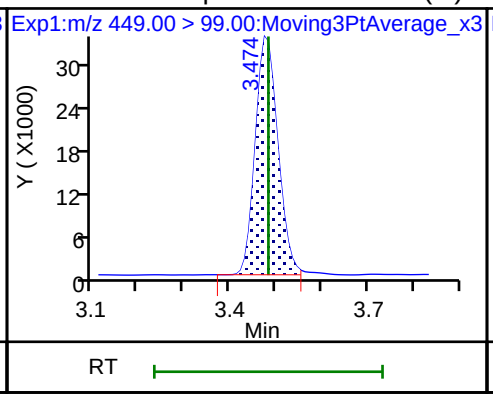
77 DONA (M)



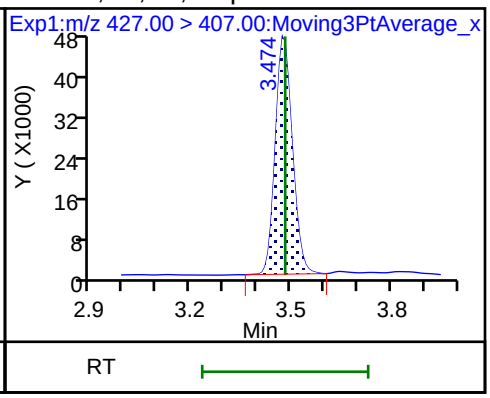
16 Perfluoroheptanesulfonic acid (M)



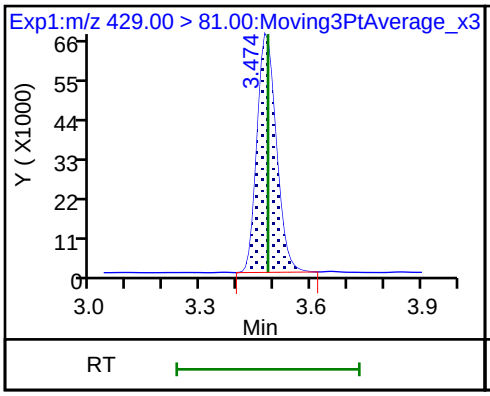
16 Perfluoroheptanesulfonic acid (M)



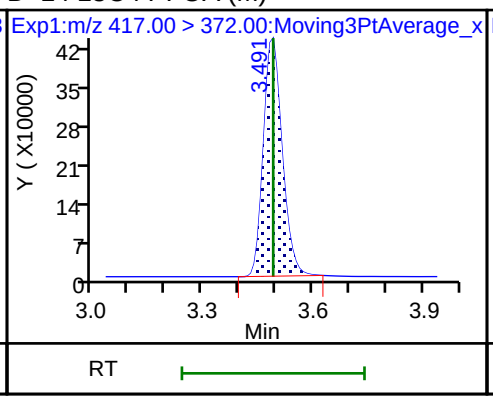
13 1H,1H,2H,2H-perfluorooctanesulfo



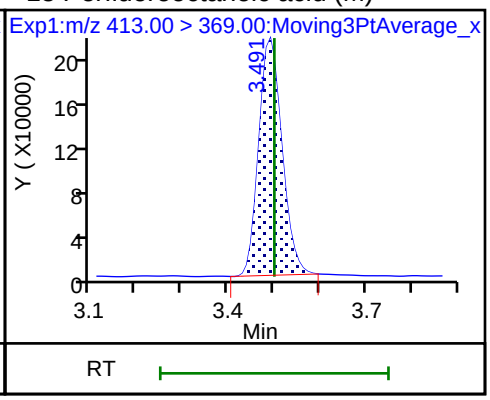
D 12 M2-6:2 FTS



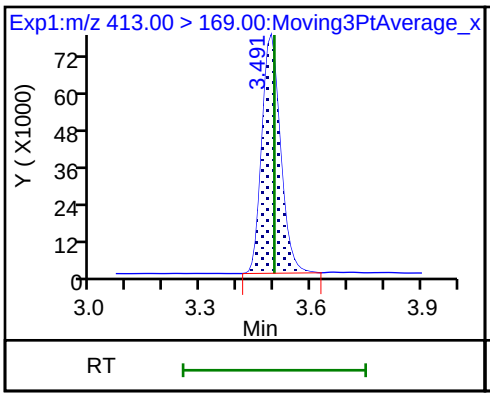
D 14 13C4 PFOA (M)



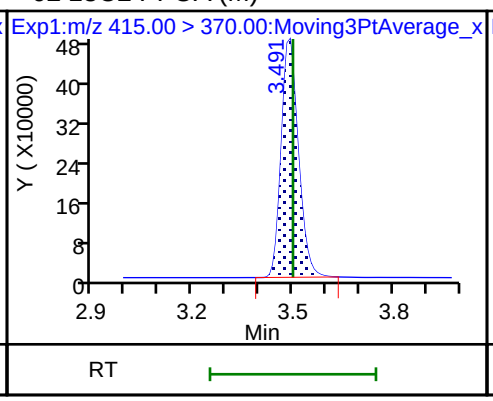
15 Perfluorooctanoic acid (M)



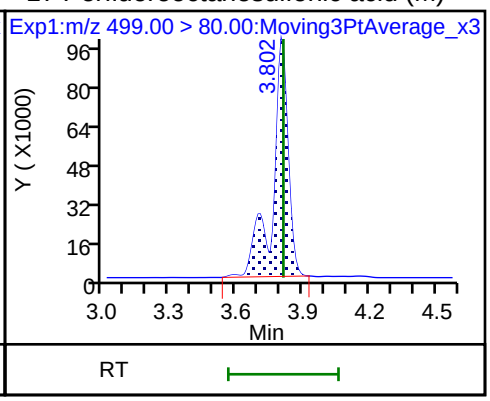
15 Perfluorooctanoic acid



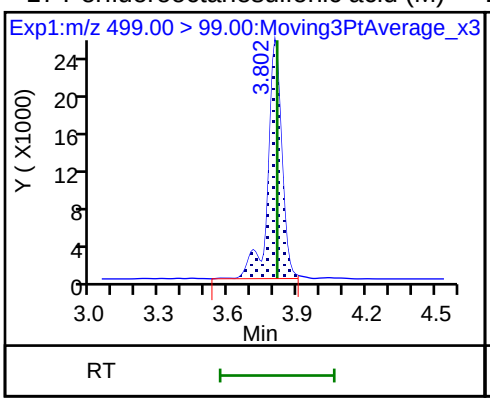
* 62 13C2 PFOA (M)



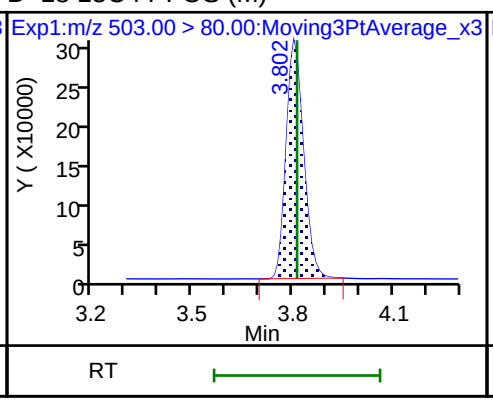
17 Perfluorooctanesulfonic acid (M)



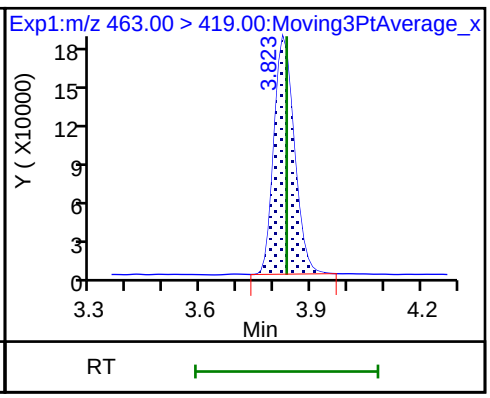
17 Perfluorooctanesulfonic acid (M)



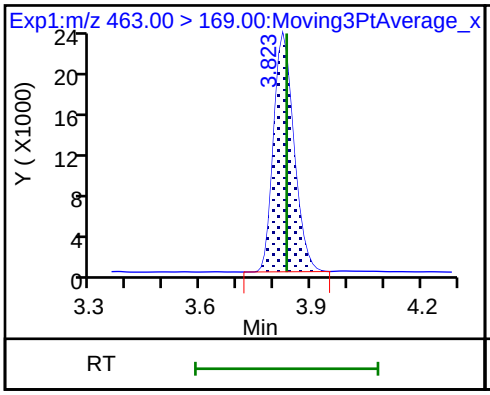
D 18 13C4 PFOS (M)



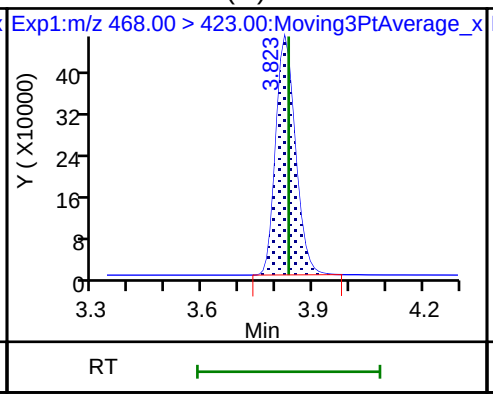
20 Perfluorononanoic acid



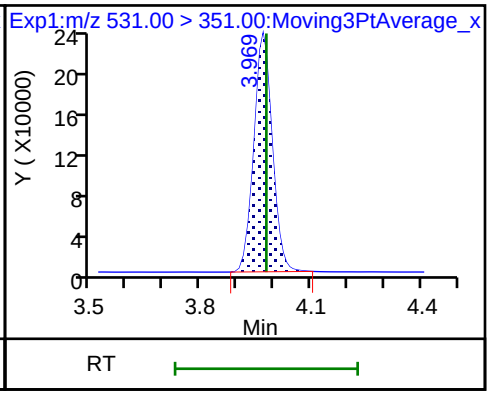
20 Perfluorononanoic acid



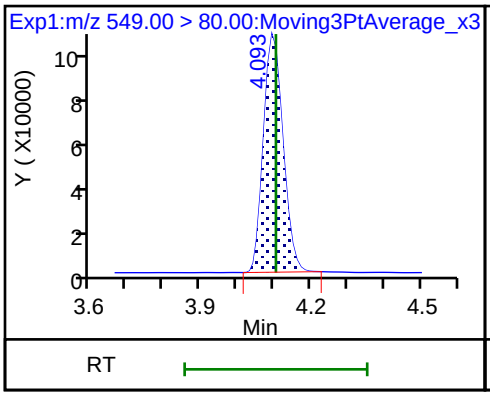
D 19 13C5 PFNA (M)



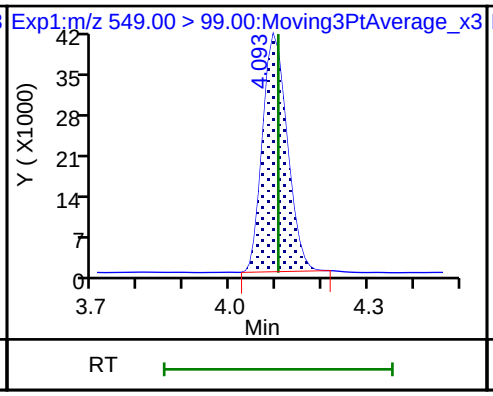
69 9-Chlorohexadecafluoro-3-oxanona (M)



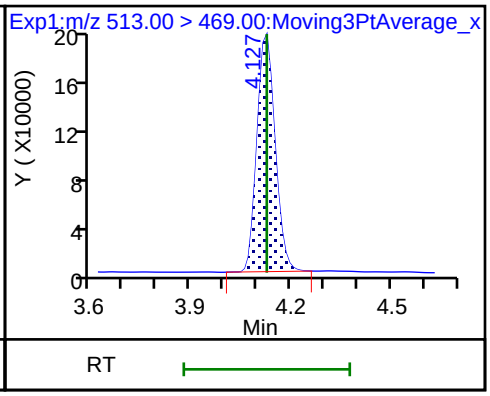
68 Perfluorononanesulfonic acid



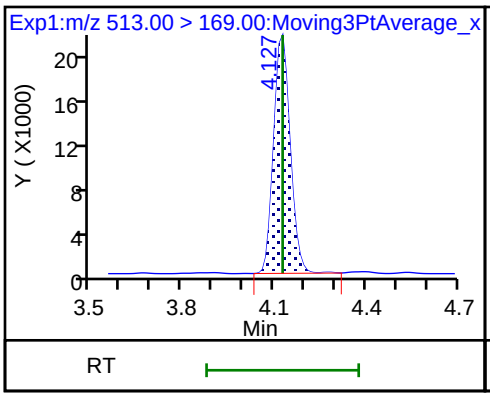
68 Perfluorononanesulfonic acid



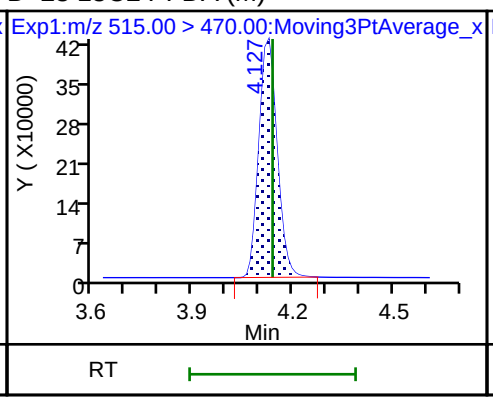
24 Perfluorodecanoic acid



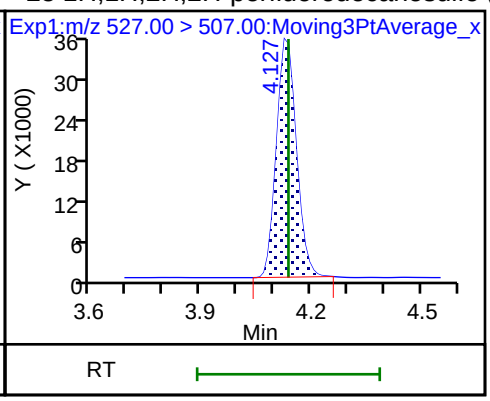
24 Perfluorodecanoic acid



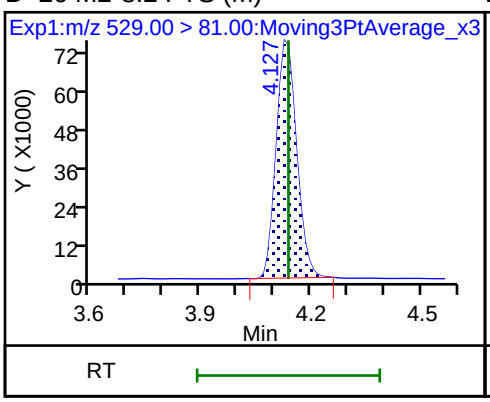
D 23 13C2 PFDA (M)



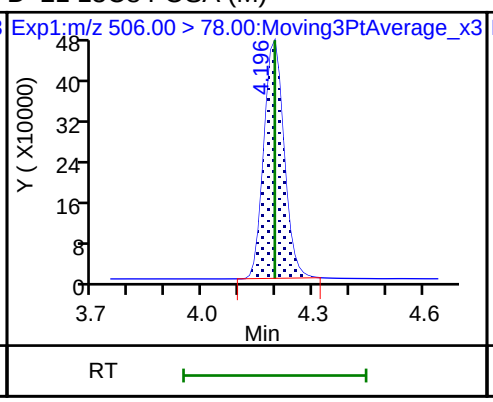
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



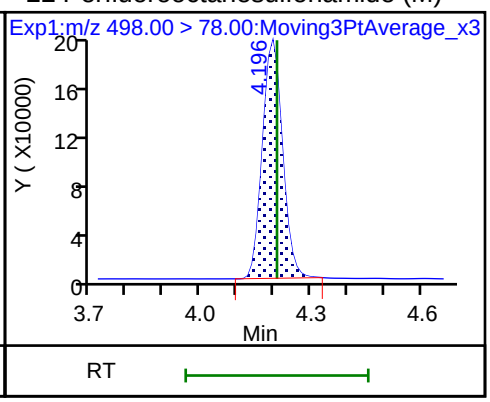
D 26 M2-8:2 FTS (M)



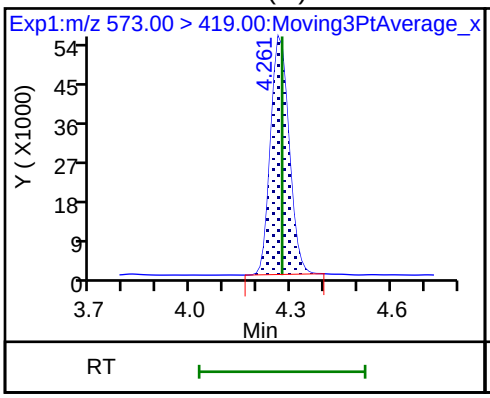
D 21 13C8 FOSA (M)



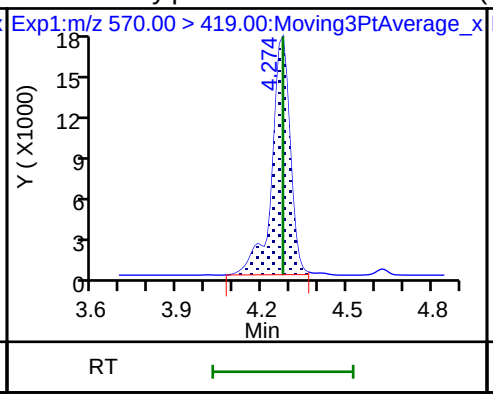
22 Perfluorooctanesulfonamide (M)



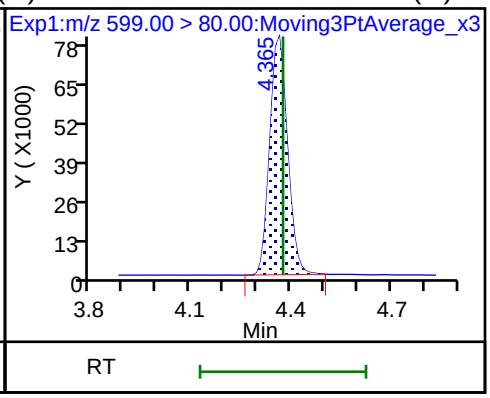
D 27 d3-NMeFOSAA (M)



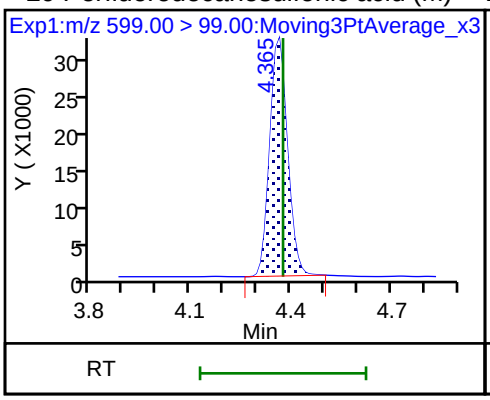
28 N-methylperfluorooctanesulfonami (M)



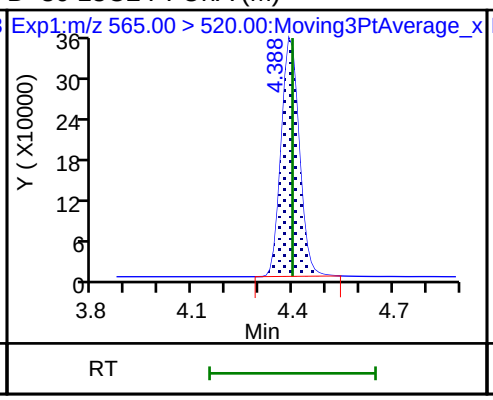
29 Perfluorodecanesulfonic acid (M)



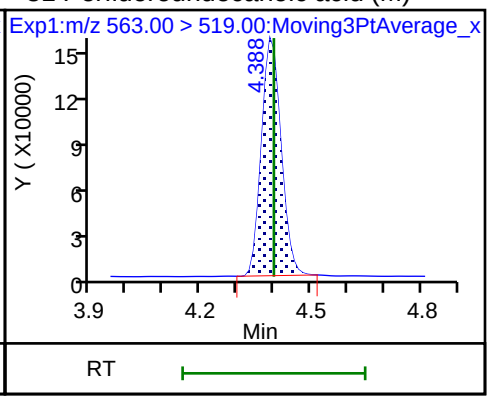
29 Perfluorodecanesulfonic acid (M)



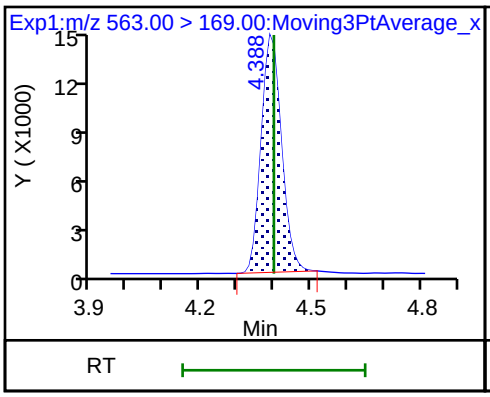
D 30 13C2 PFUnA (M)



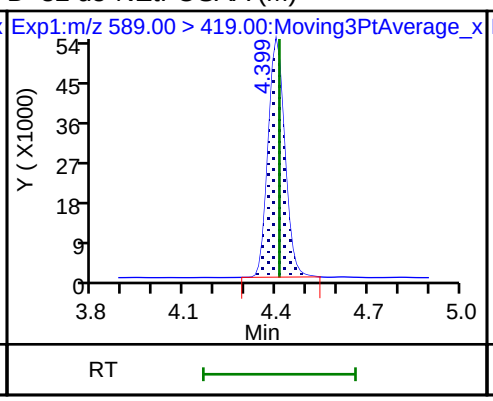
31 Perfluoroundecanoic acid (M)



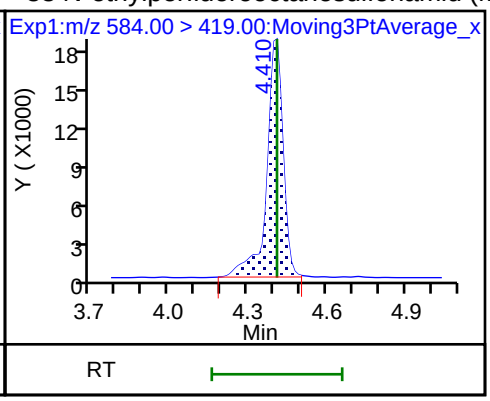
31 Perfluoroundecanoic acid



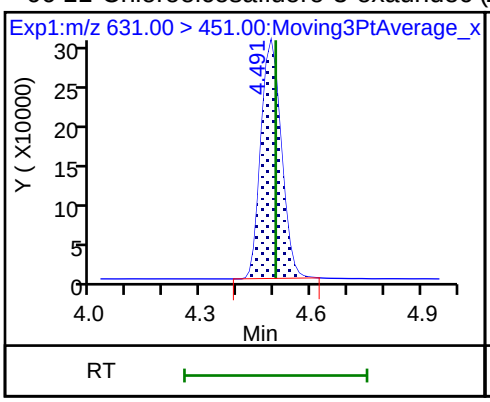
D 32 d5-NEtFOSAA (M)



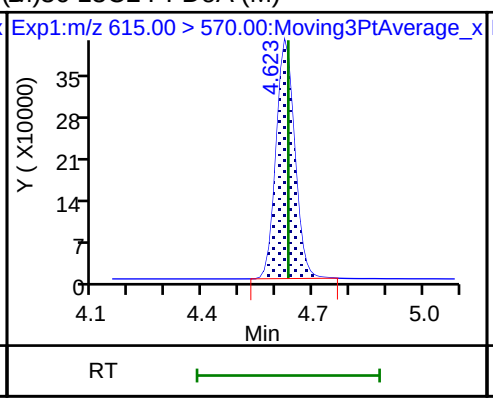
33 N-ethylperfluorooctanesulfonamid (M)



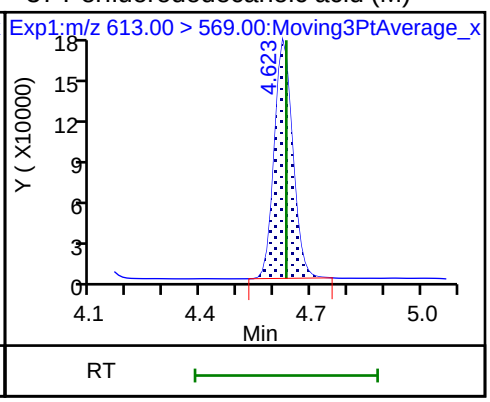
66 11-Chloroeicosafluoro-3-oxaundec (M)



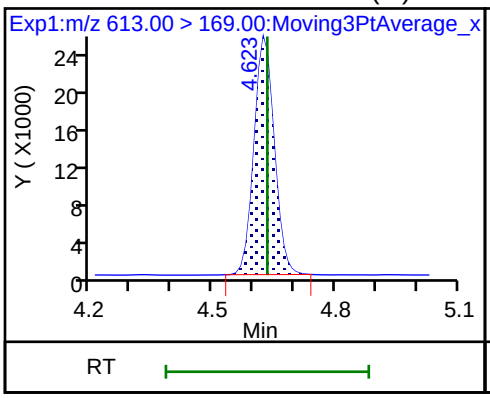
D 36 13C2 PFDoA (M)



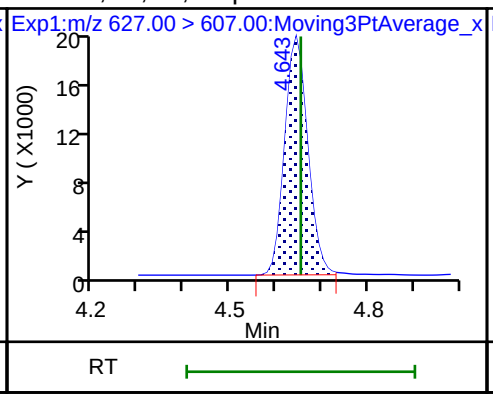
37 Perfluorododecanoic acid (M)



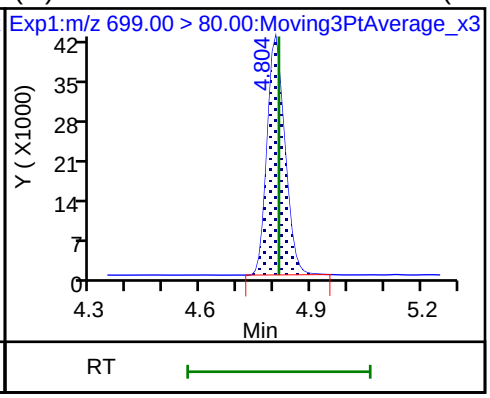
37 Perfluorododecanoic acid (M)



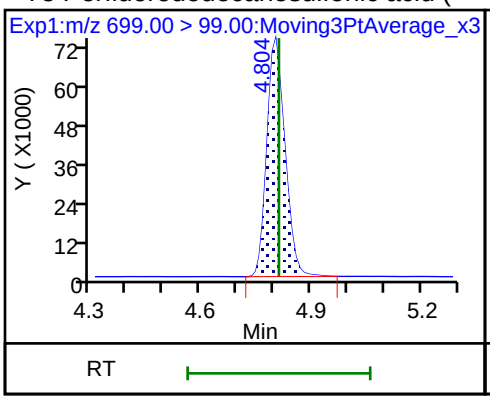
74 1H,1H,2H,2H-perfluorododecanesul (M)



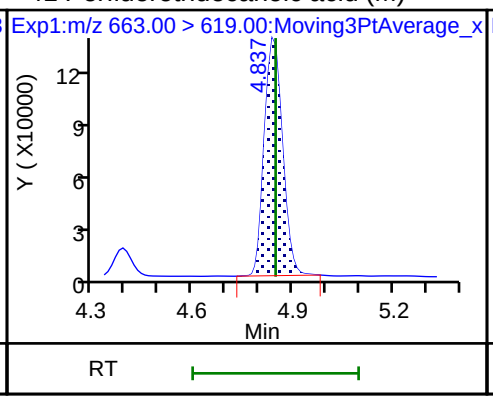
75 Perfluorododecanesulfonic acid (



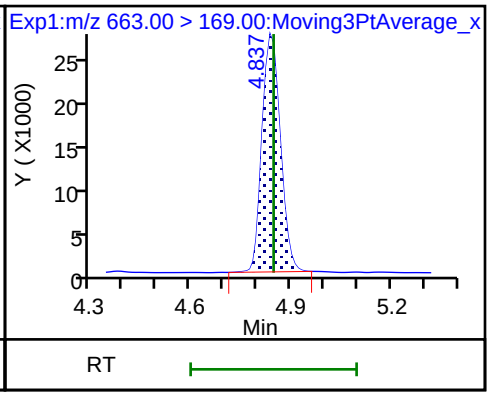
75 Perfluorododecanesulfonic acid (



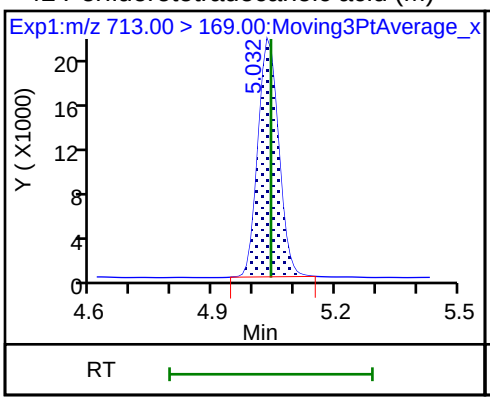
41 Perfluorotridecanoic acid (M)



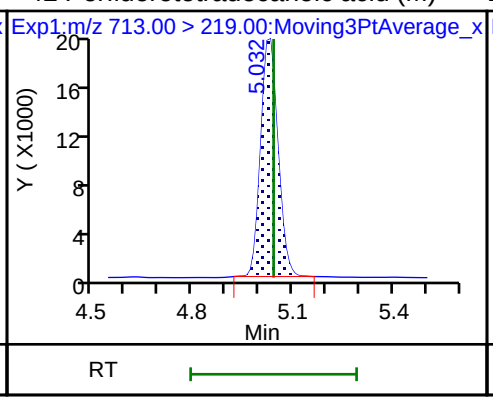
41 Perfluorotridecanoic acid



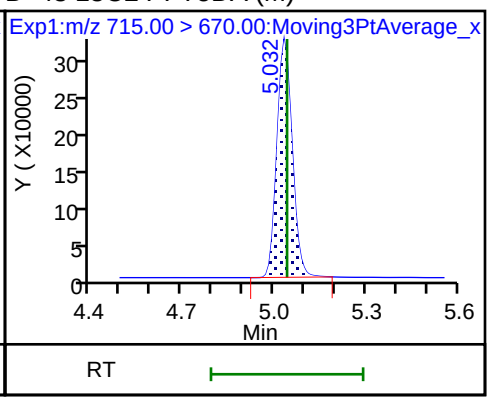
42 Perfluorotetradecanoic acid (M)



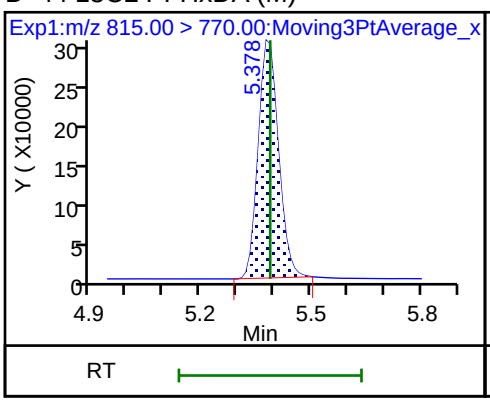
42 Perfluorotetradecanoic acid (M)



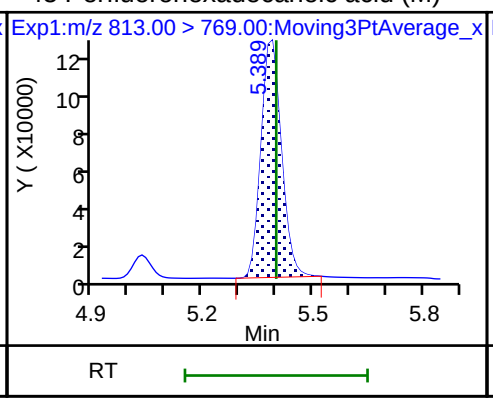
D 43 13C2 PFTeDA (M)



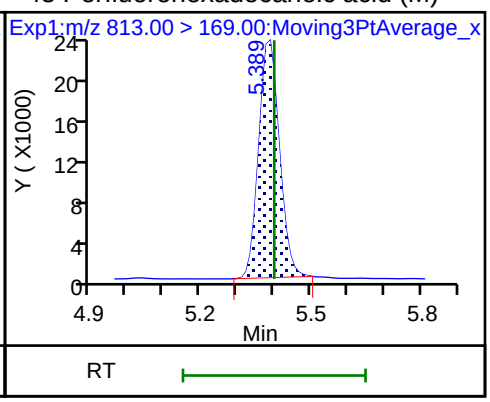
D 44 13C2 PFHxDA (M)



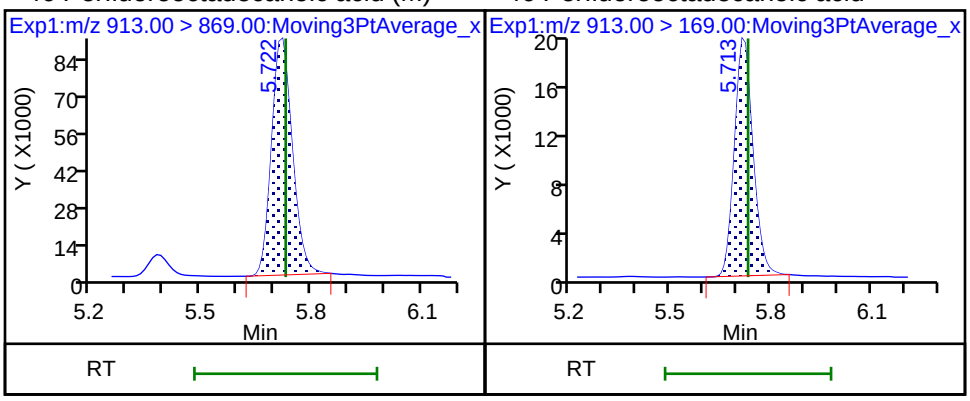
45 Perfluorohexadecanoic acid (M)



45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M) 46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins Burlington

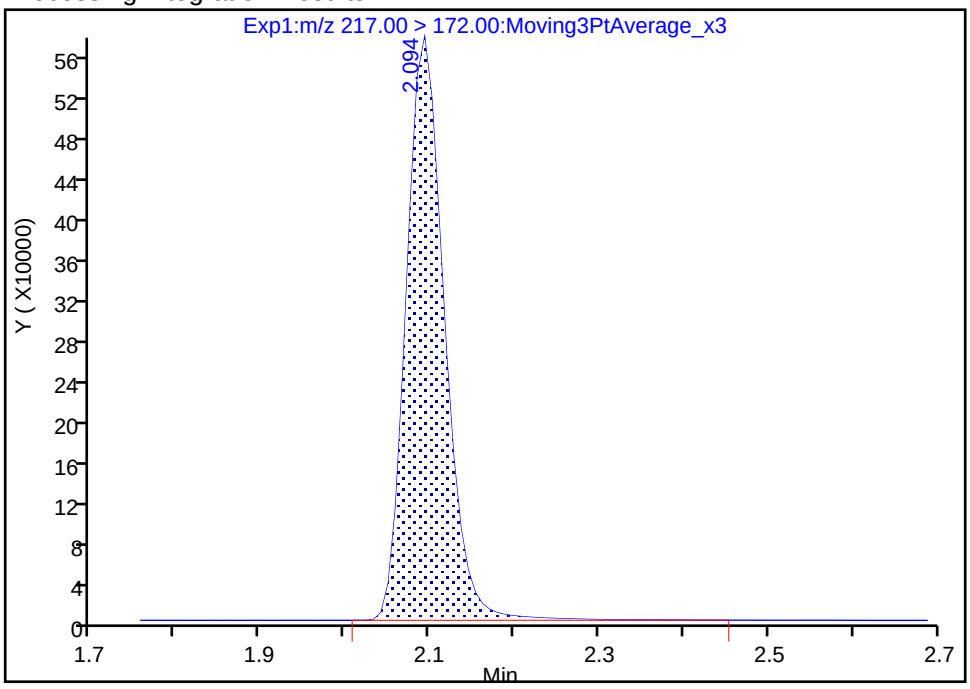
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

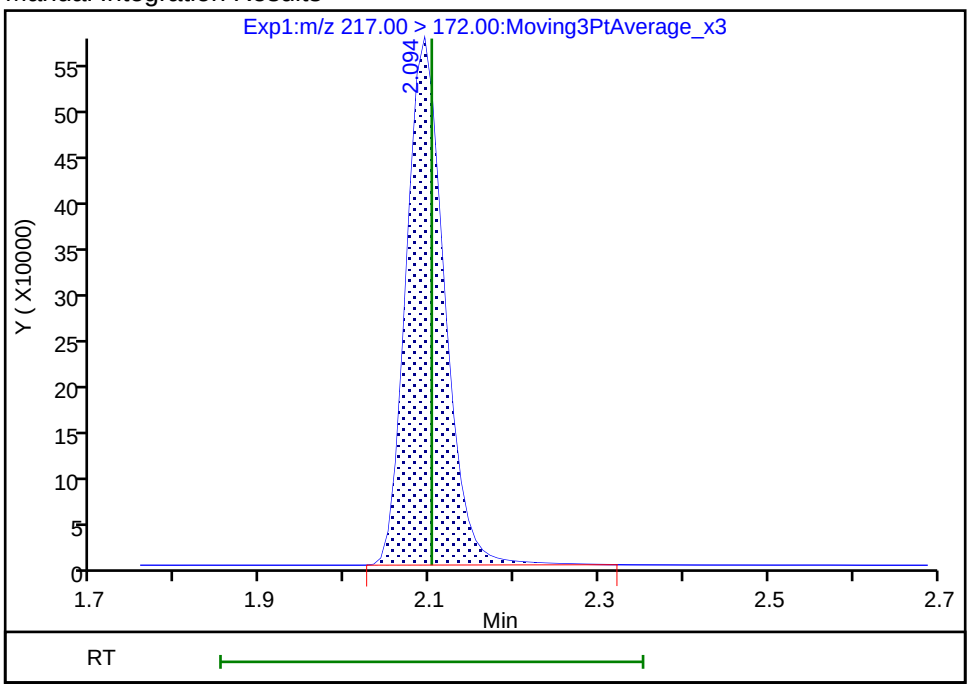
Processing Integration Results

RT: 2.09
Area: 1794786
Amount: 1.223955
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 1789335
Amount: 1.233746
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:45:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

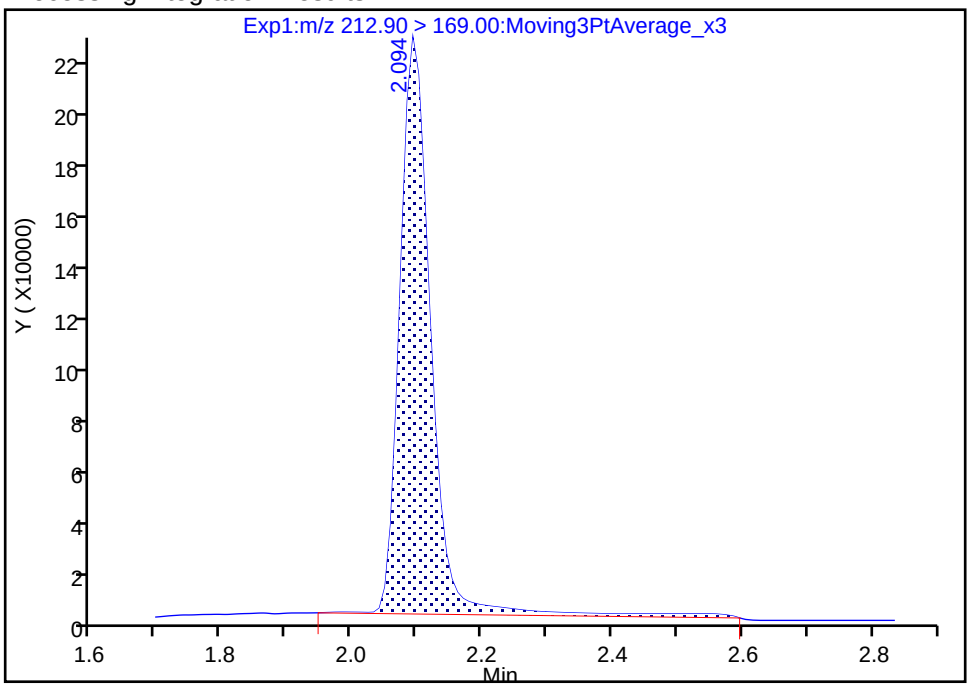
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

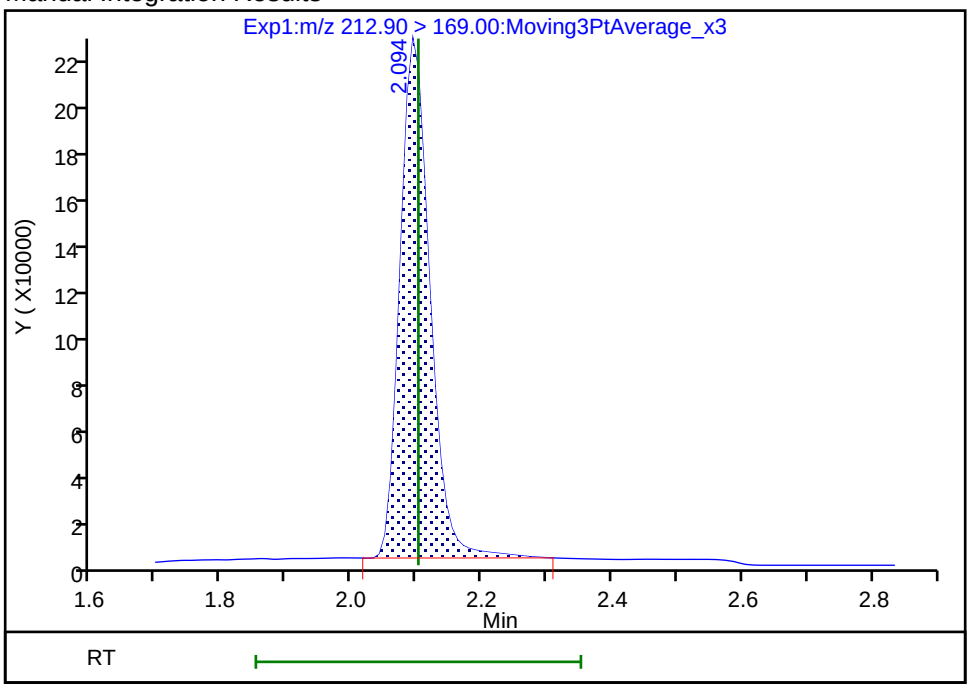
Processing Integration Results

RT: 2.09
Area: 737212
Amount: 0.533276
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 701576
Amount: 0.519350
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:46:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

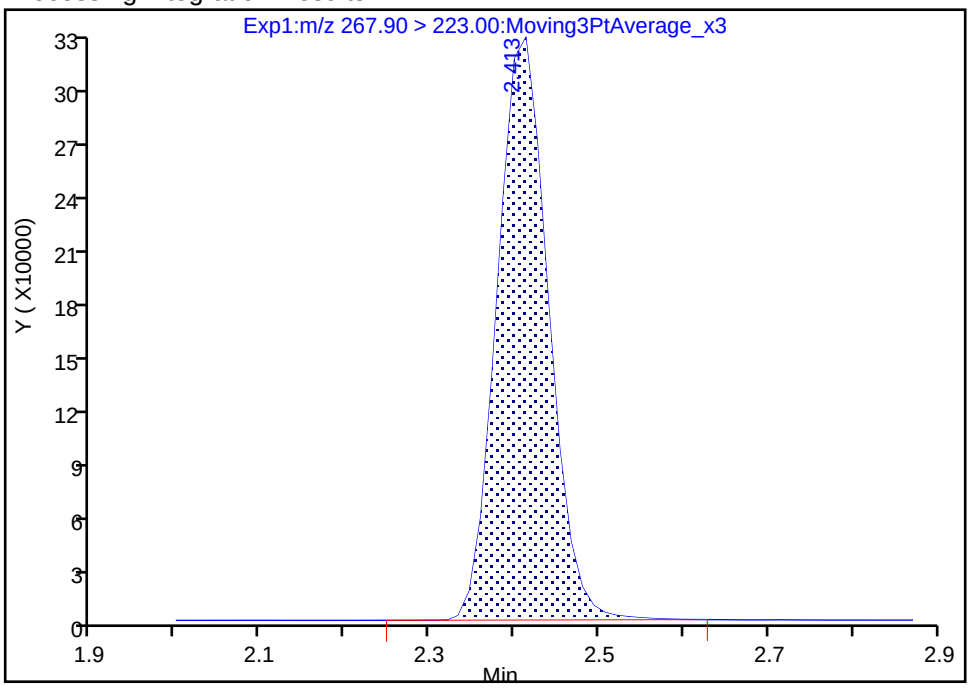
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 3 13C5 PFPeA, CAS: STL01893

Signal: 1

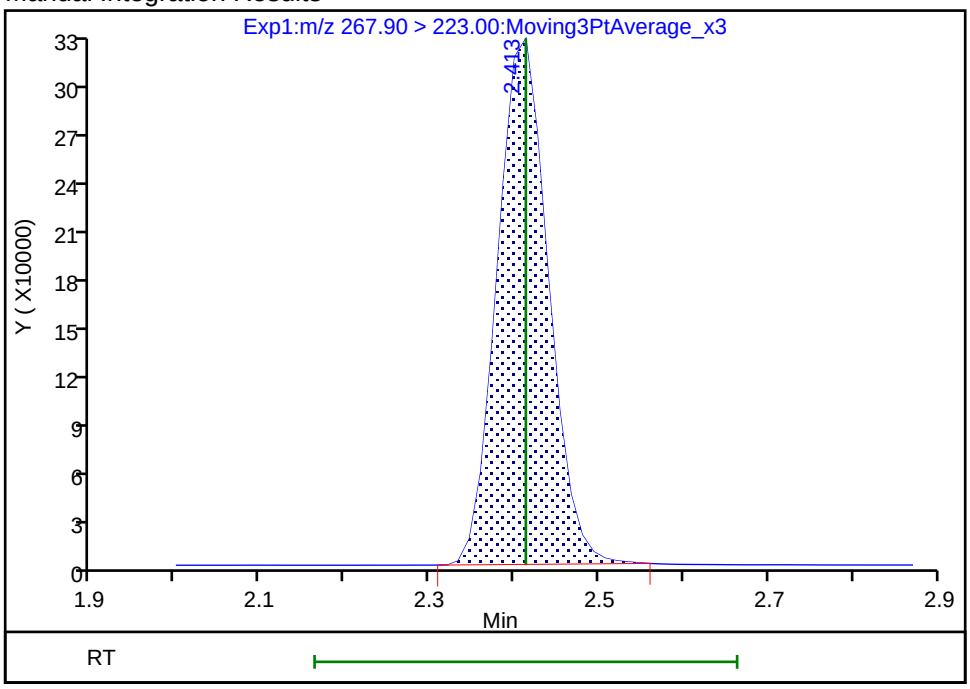
Processing Integration Results

RT: 2.41
Area: 1370048
Amount: 1.223452
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 1363294
Amount: 1.229716
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:46:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

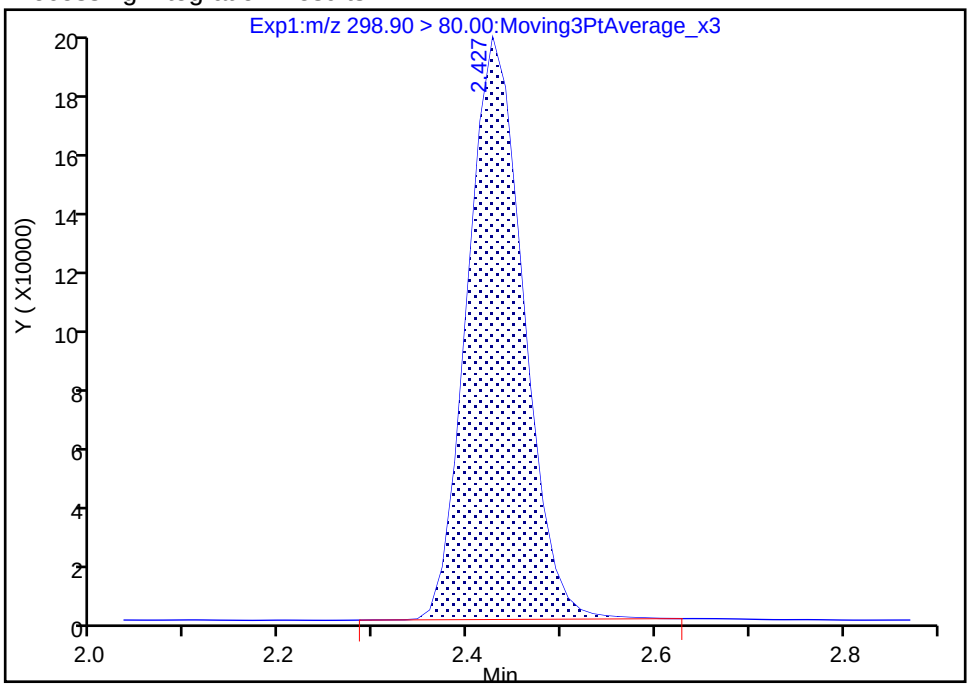
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

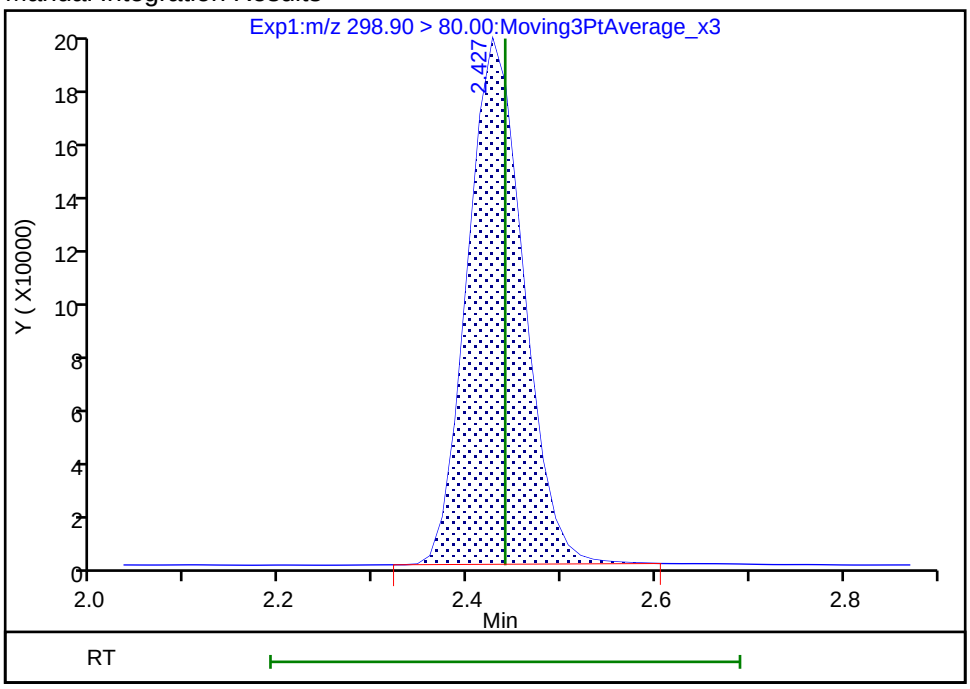
Processing Integration Results

RT: 2.43
Area: 790705
Amount: 0.461185
Amount Units: ng/ml



Manual Integration Results

RT: 2.43
Area: 789553
Amount: 0.462157
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:46:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

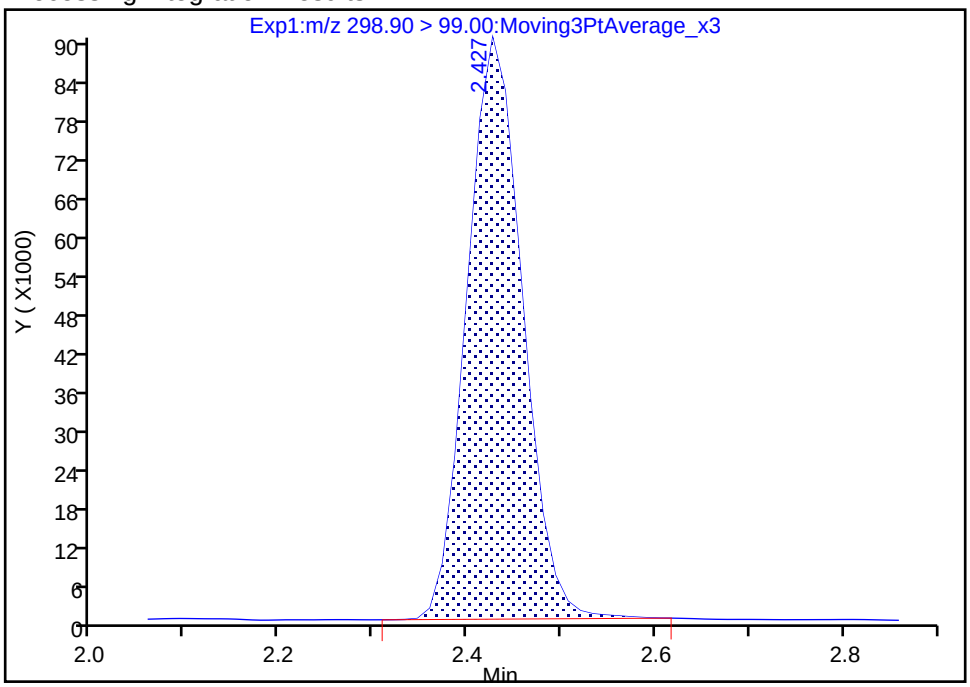
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

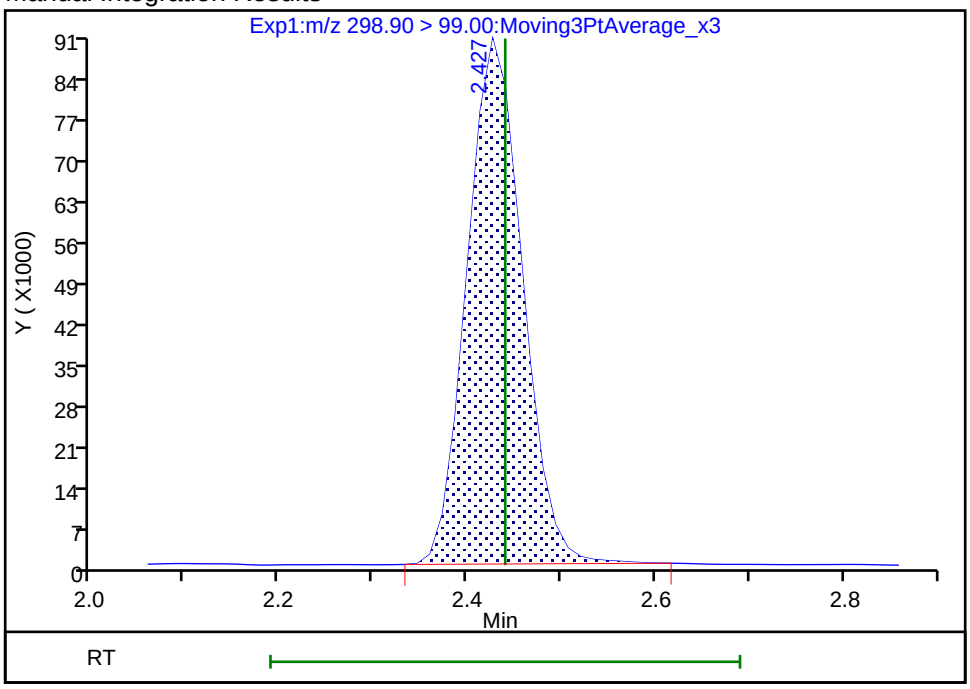
Processing Integration Results

RT: 2.43
Area: 369963
Amount: 0.461185
Amount Units: ng/ml



Manual Integration Results

RT: 2.43
Area: 369679
Amount: 0.462157
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:46:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

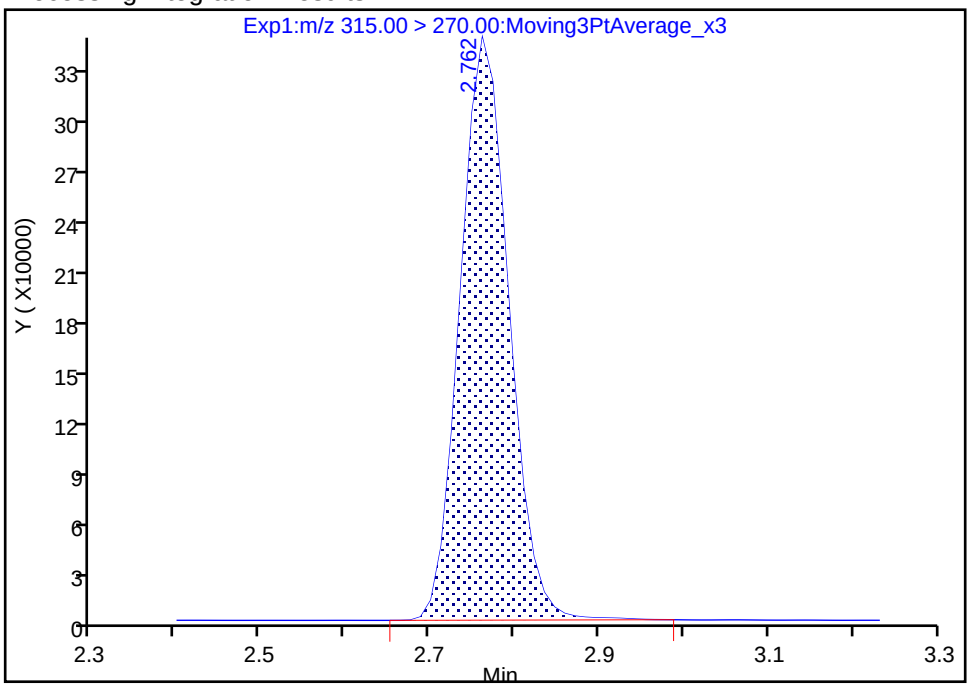
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

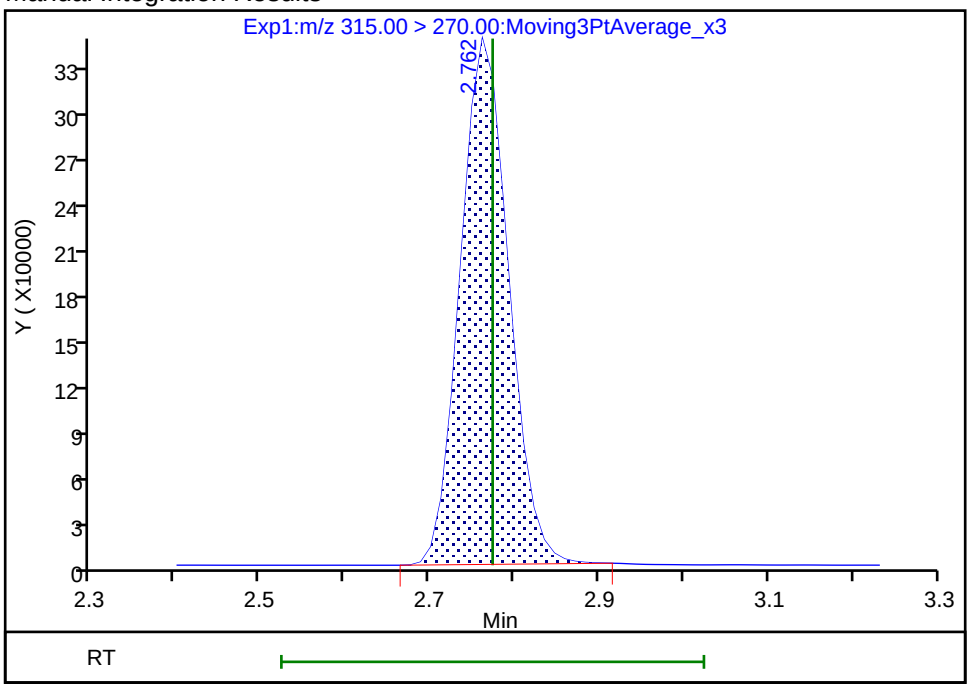
Processing Integration Results

RT: 2.76
Area: 1396189
Amount: 1.214391
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 1386720
Amount: 1.223216
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:46:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

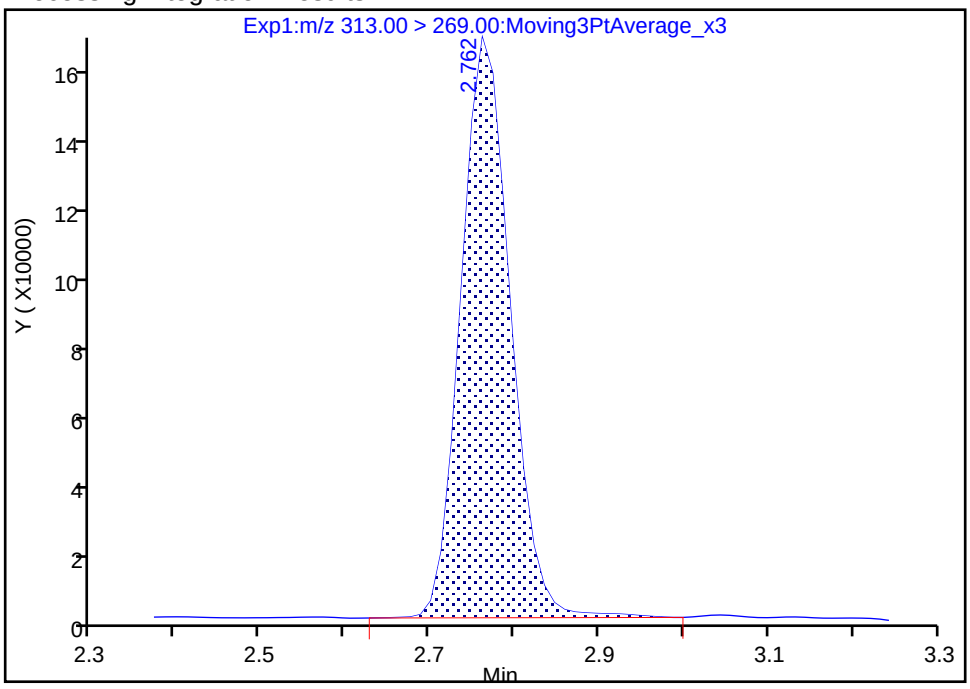
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

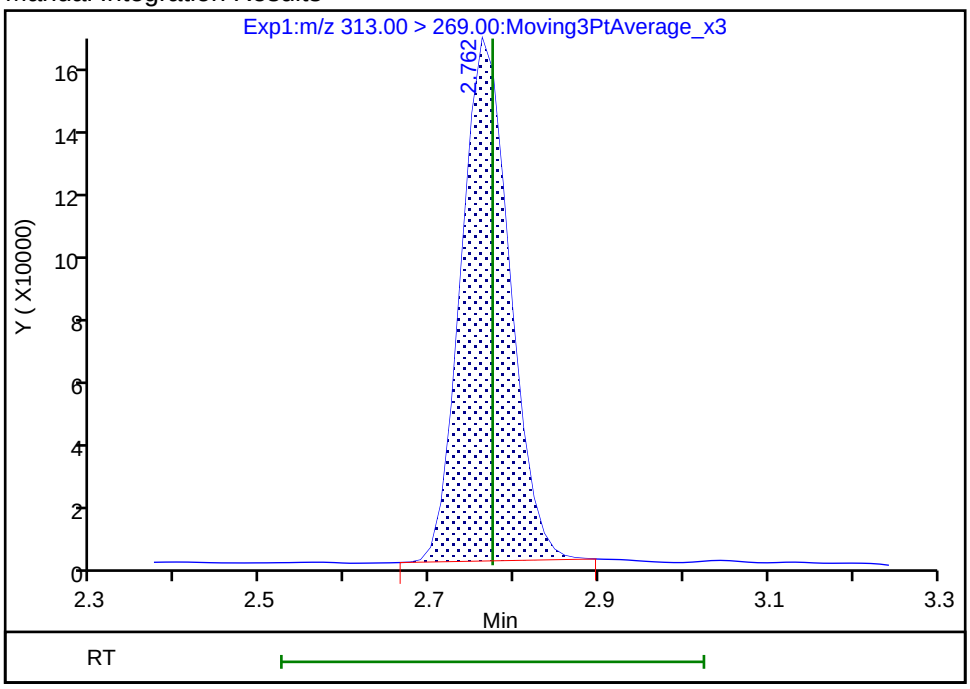
Processing Integration Results

RT: 2.76
Area: 642645
Amount: 0.532214
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 630224
Amount: 0.526323
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:46:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

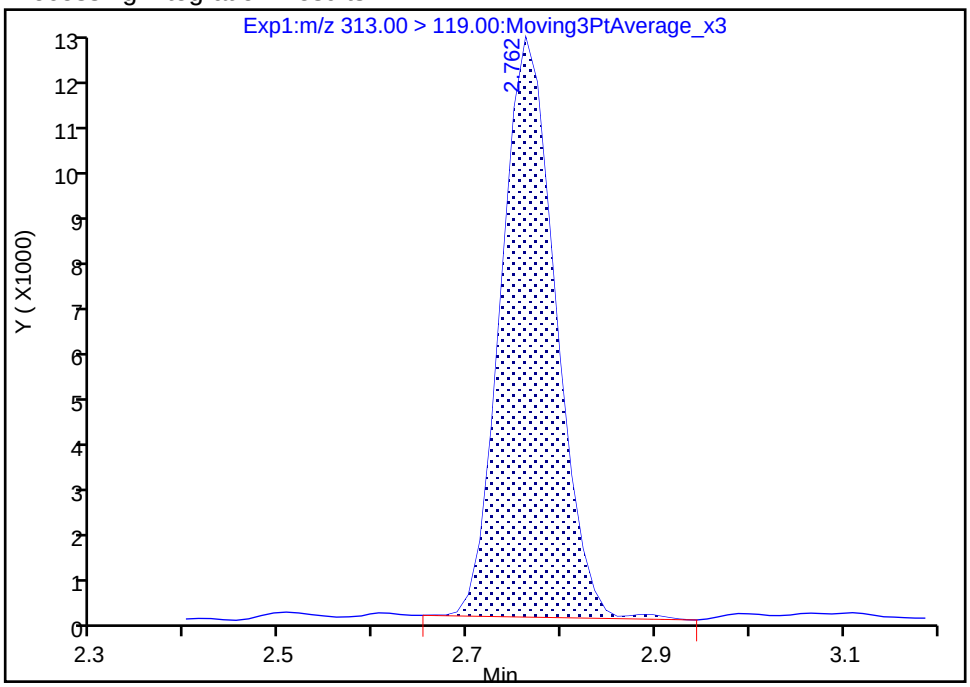
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

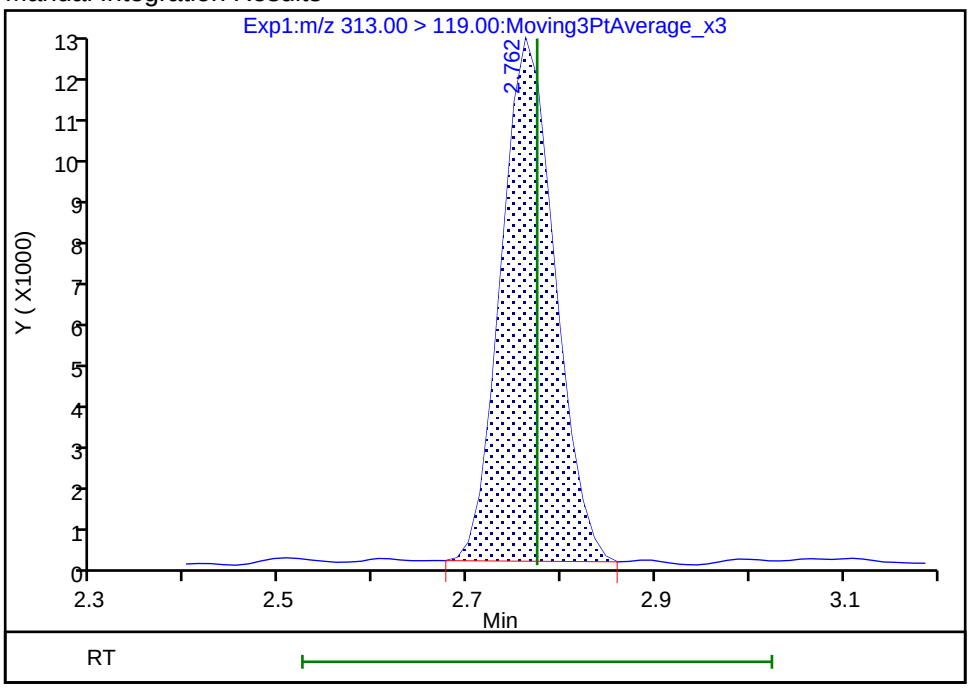
Processing Integration Results

RT: 2.76
Area: 49519
Amount: 0.532214
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 48963
Amount: 0.526323
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:46:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

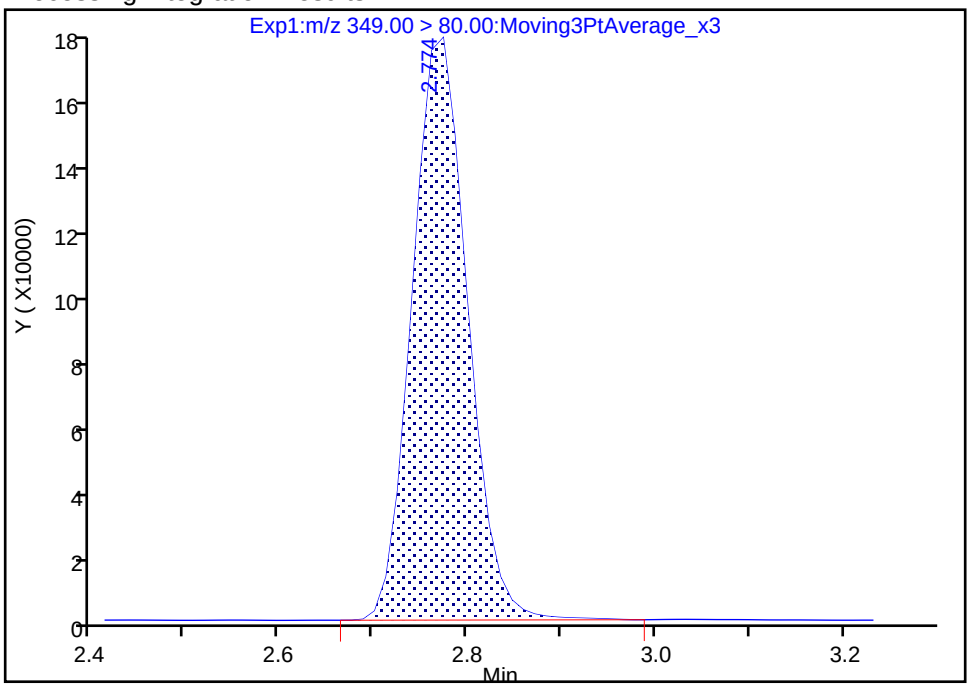
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

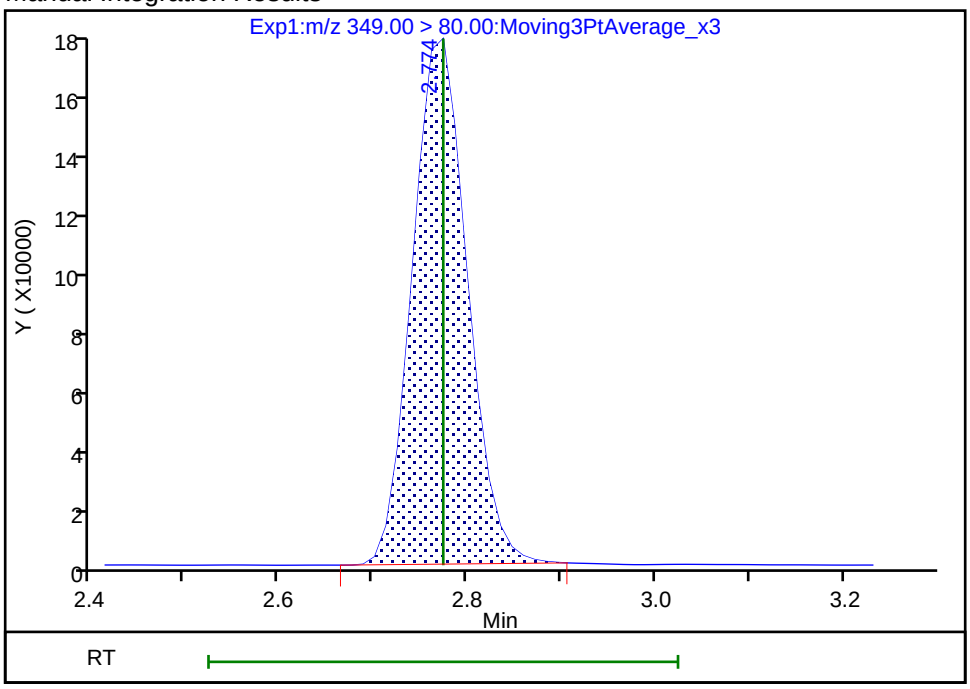
Processing Integration Results

RT: 2.77
Area: 733095
Amount: 0.483070
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 727041
Amount: 0.490155
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:46:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

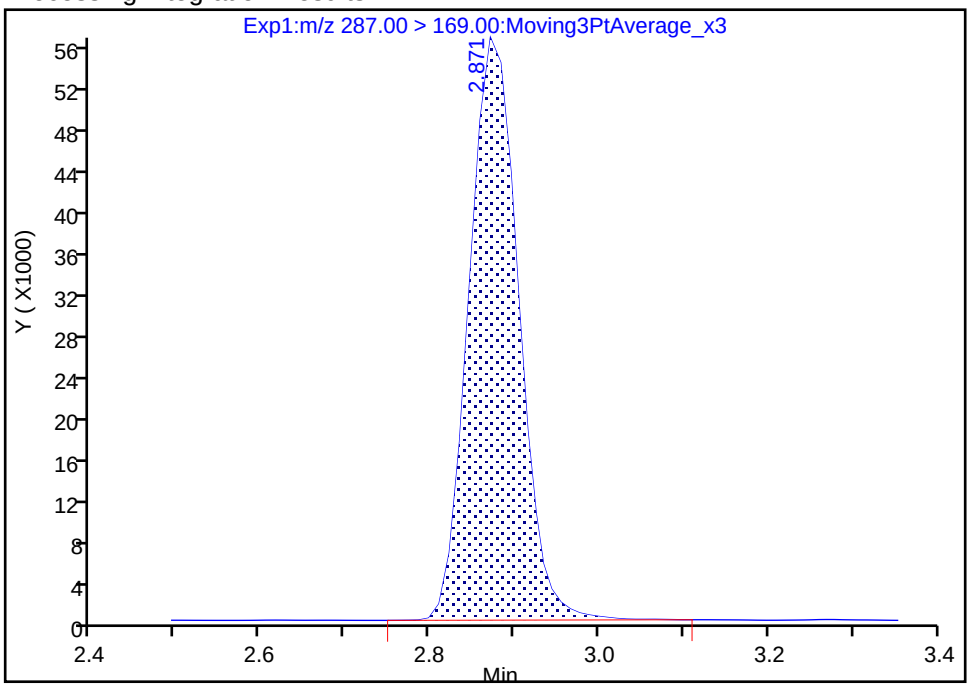
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 64 13C3 HFPO-DA, CAS: STL02255

Signal: 1

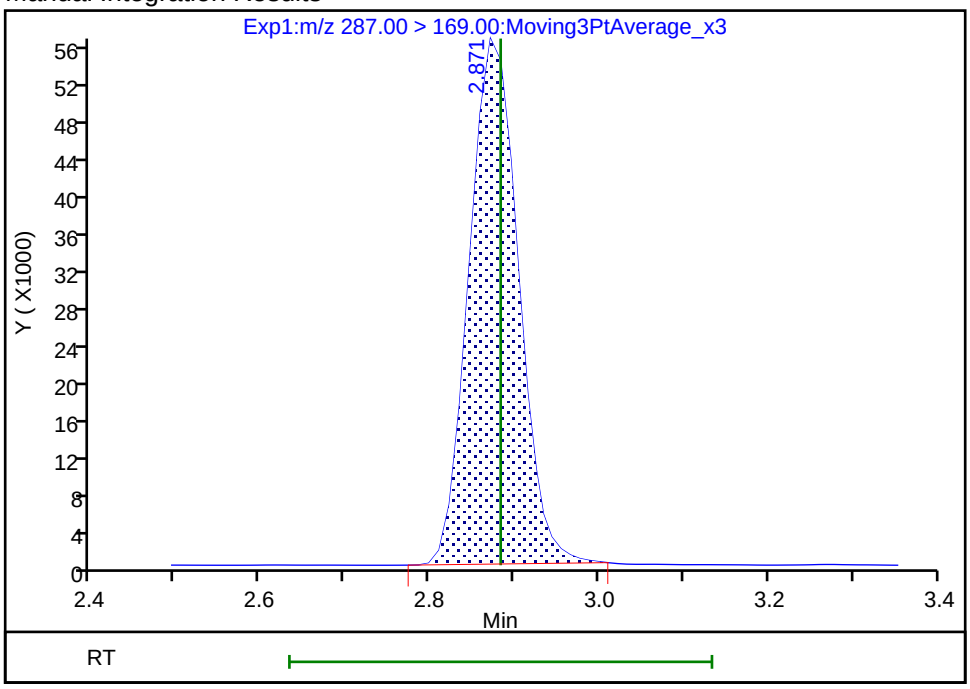
Processing Integration Results

RT: 2.87
Area: 232811
Amount: 1.182758
Amount Units: ng/ml



Manual Integration Results

RT: 2.87
Area: 230708
Amount: 1.188865
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:46:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

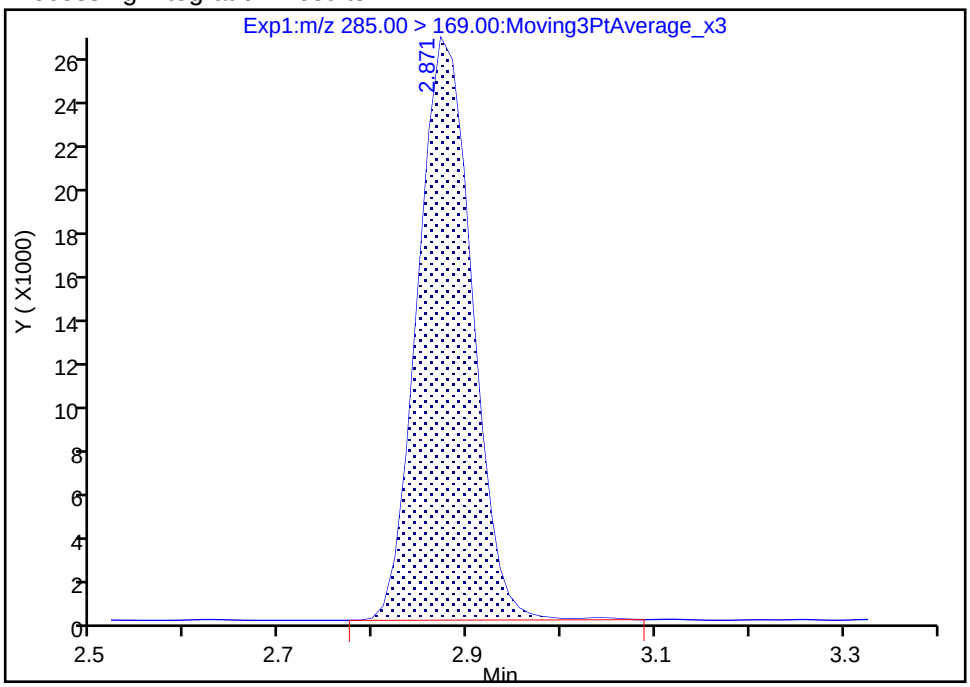
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

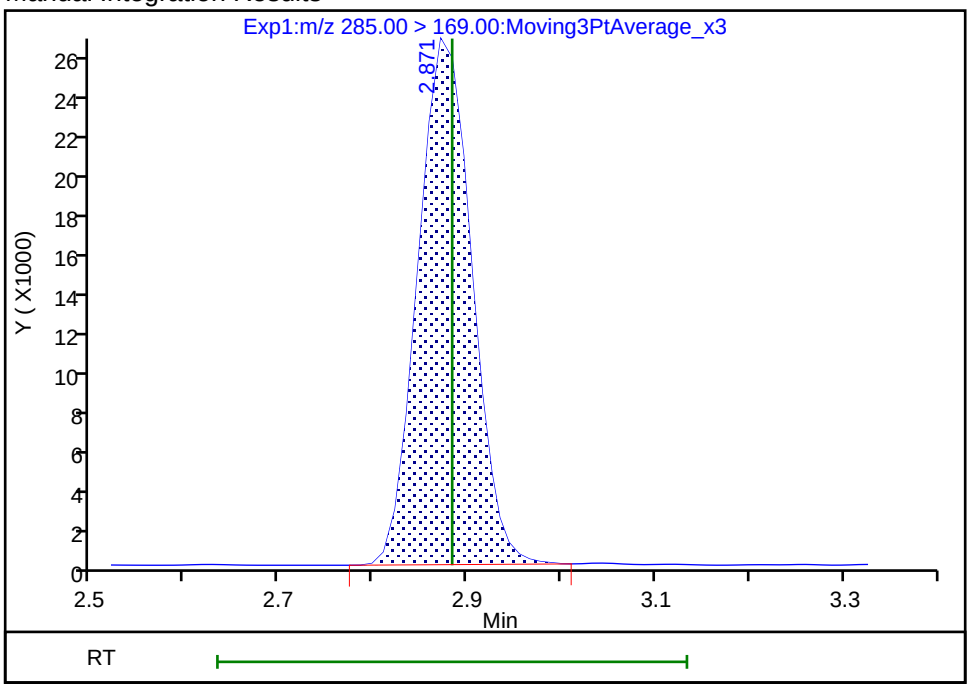
Processing Integration Results

RT: 2.87
Area: 104764
Amount: 0.509617
Amount Units: ng/ml



Manual Integration Results

RT: 2.87
Area: 104231
Amount: 0.517514
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:46:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

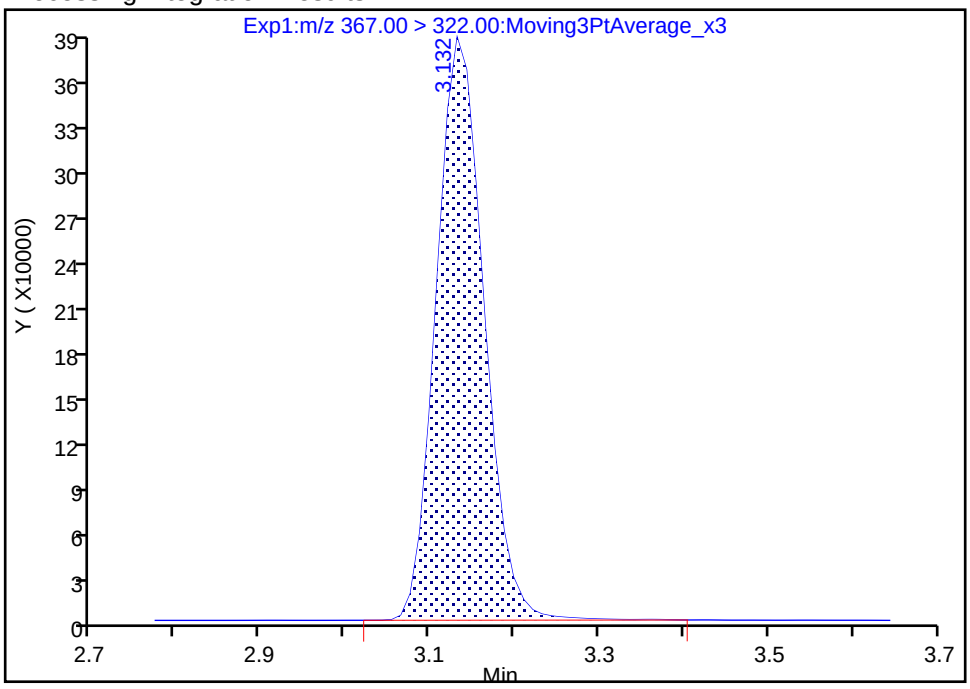
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

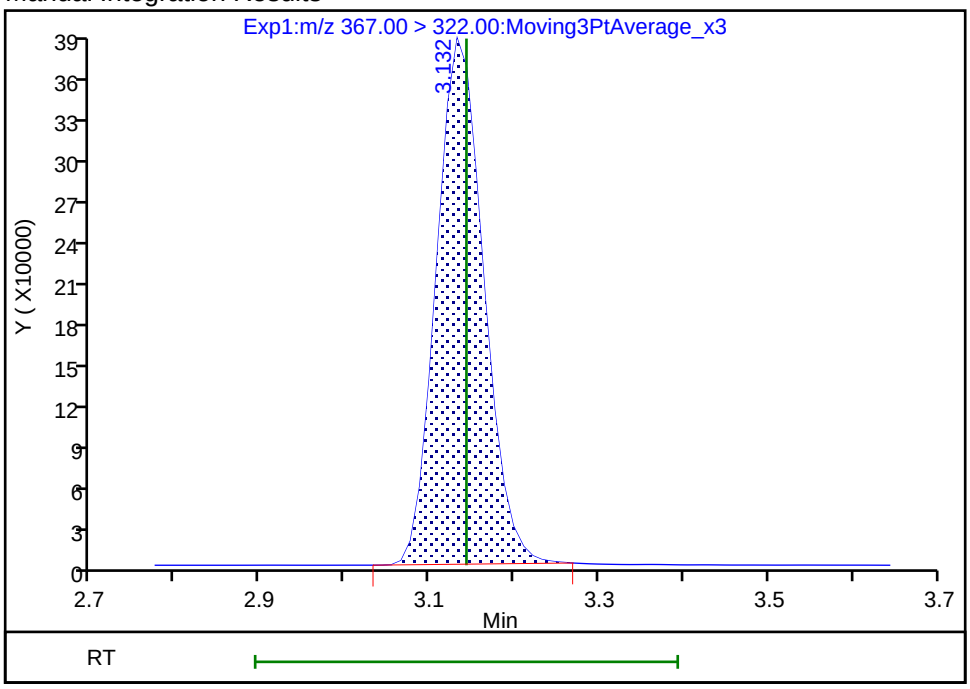
Processing Integration Results

RT: 3.13
Area: 1511377
Amount: 1.249747
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 1497120
Amount: 1.223973
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:47:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

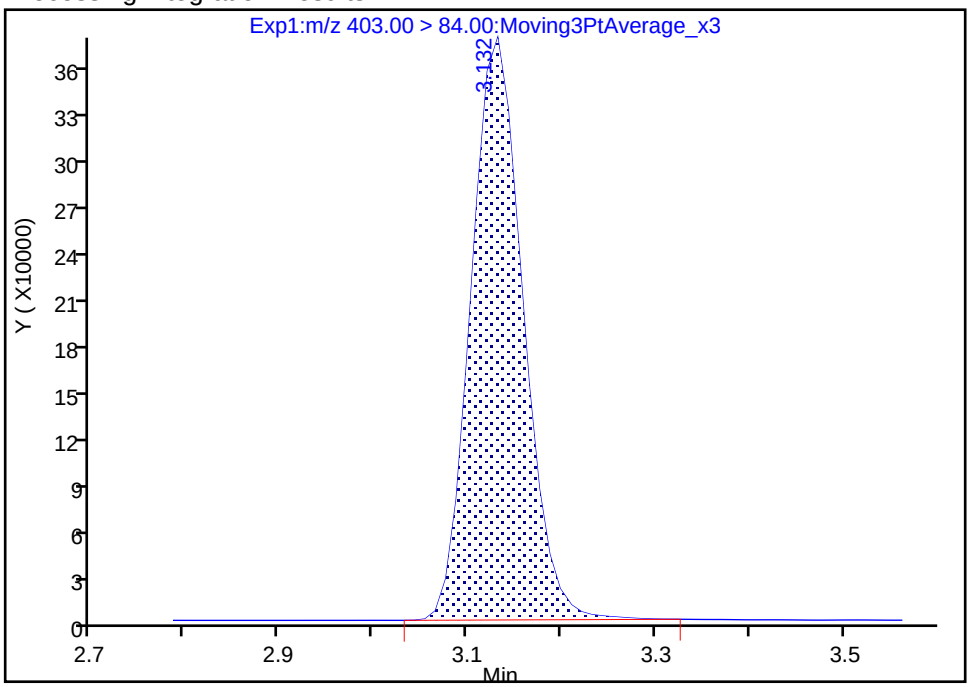
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

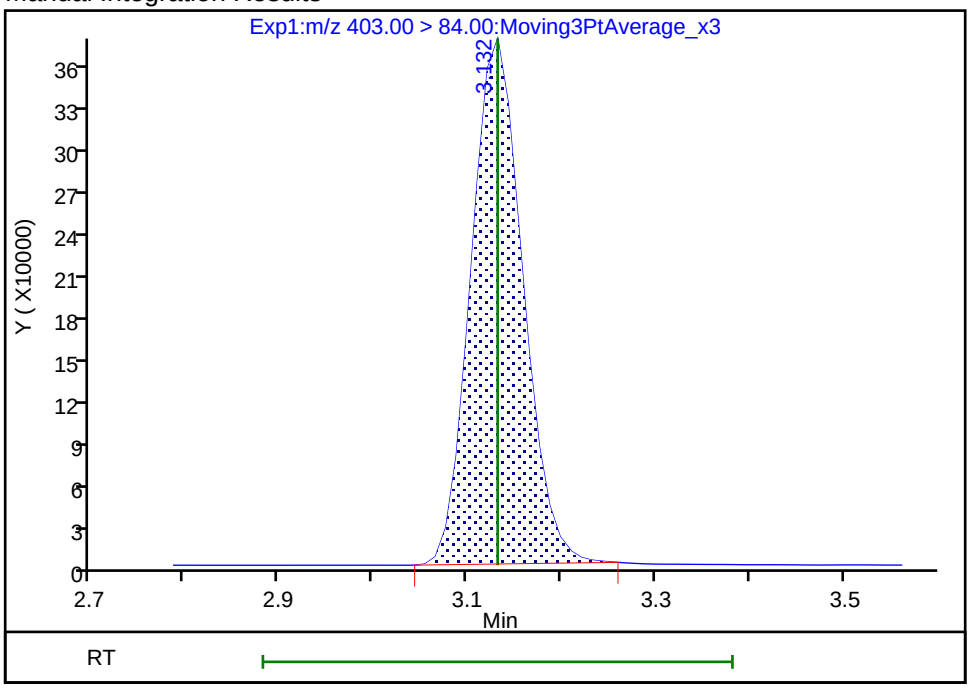
Processing Integration Results

RT: 3.13
Area: 1432002
Amount: 1.151074
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 1420232
Amount: 1.129551
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:46:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

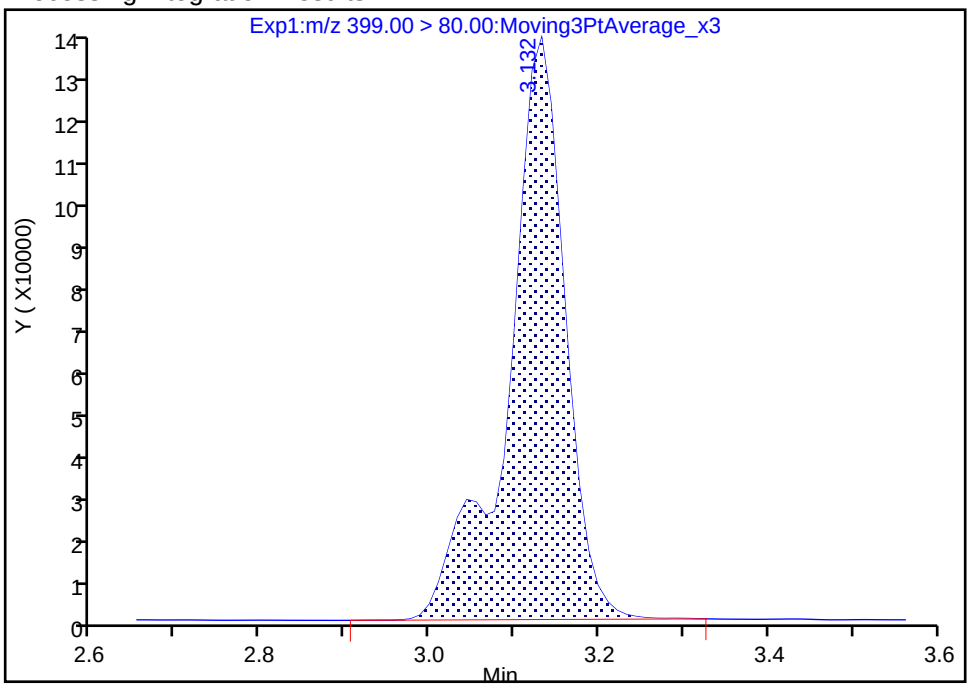
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

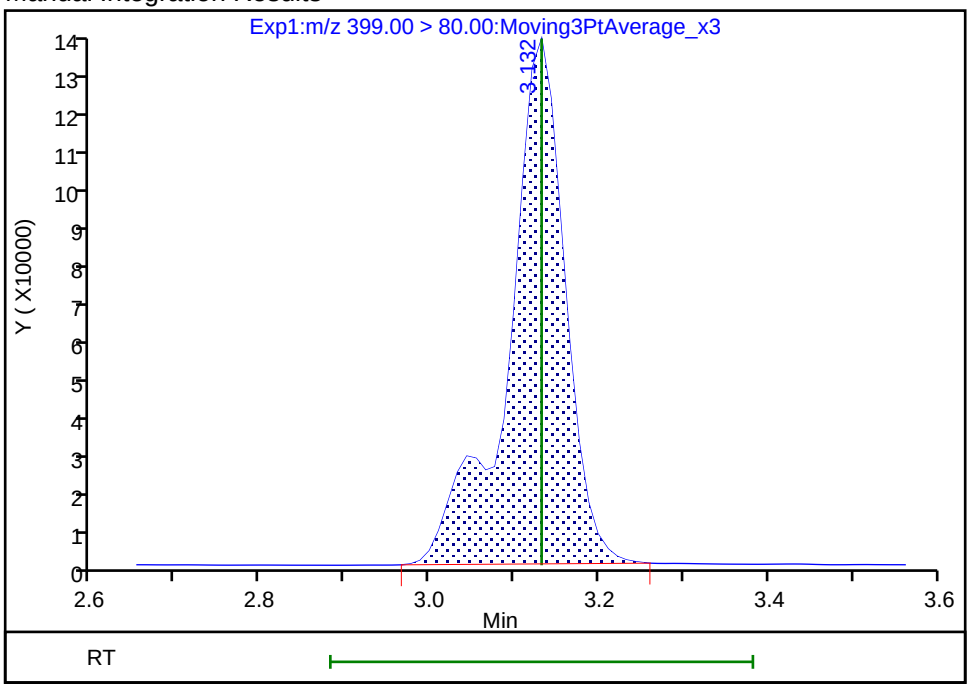
Processing Integration Results

RT: 3.13
Area: 610583
Amount: 0.456341
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 607640
Amount: 0.457736
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:47:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

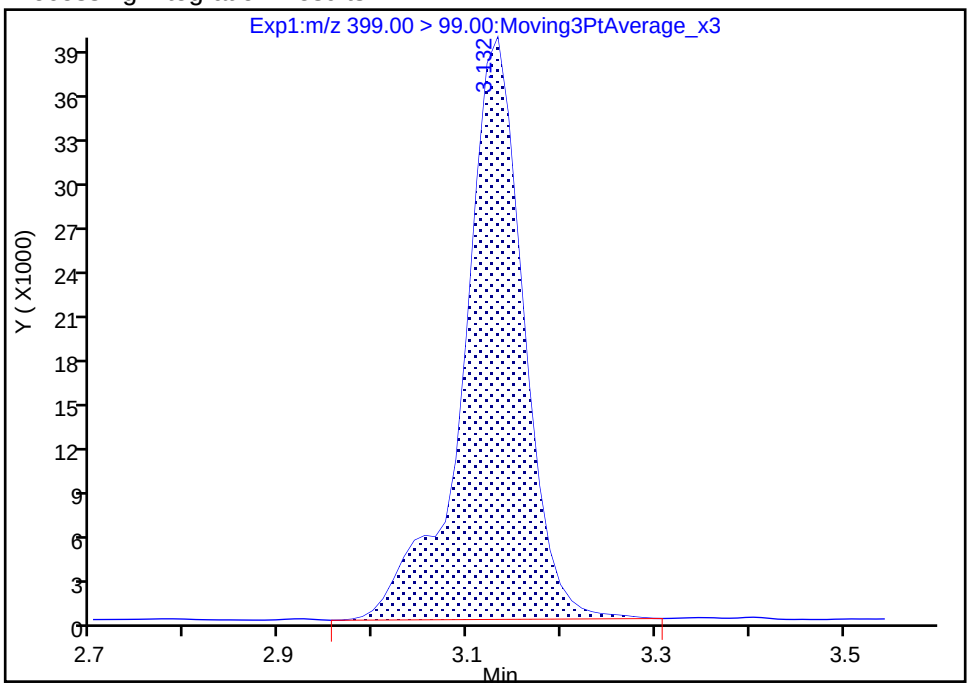
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

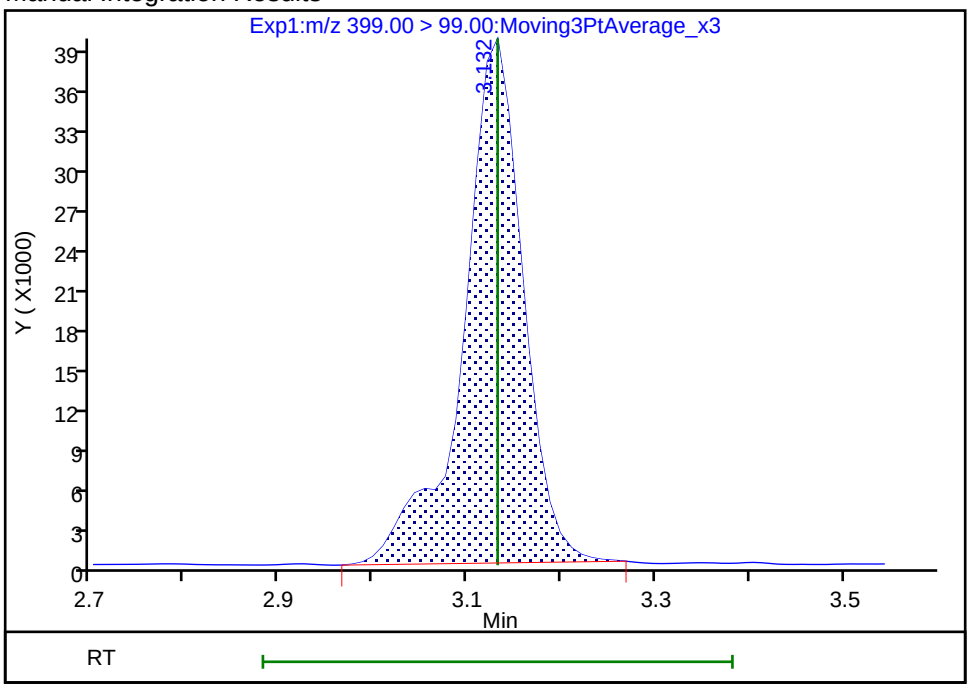
Processing Integration Results

RT: 3.13
Area: 175579
Amount: 0.456341
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 173675
Amount: 0.457736
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:47:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

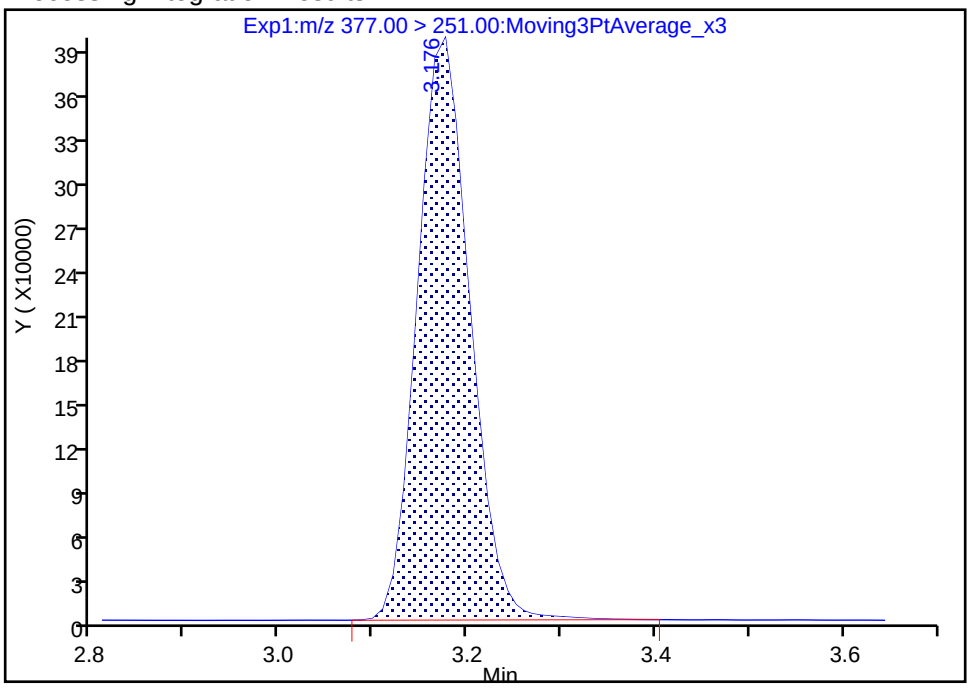
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

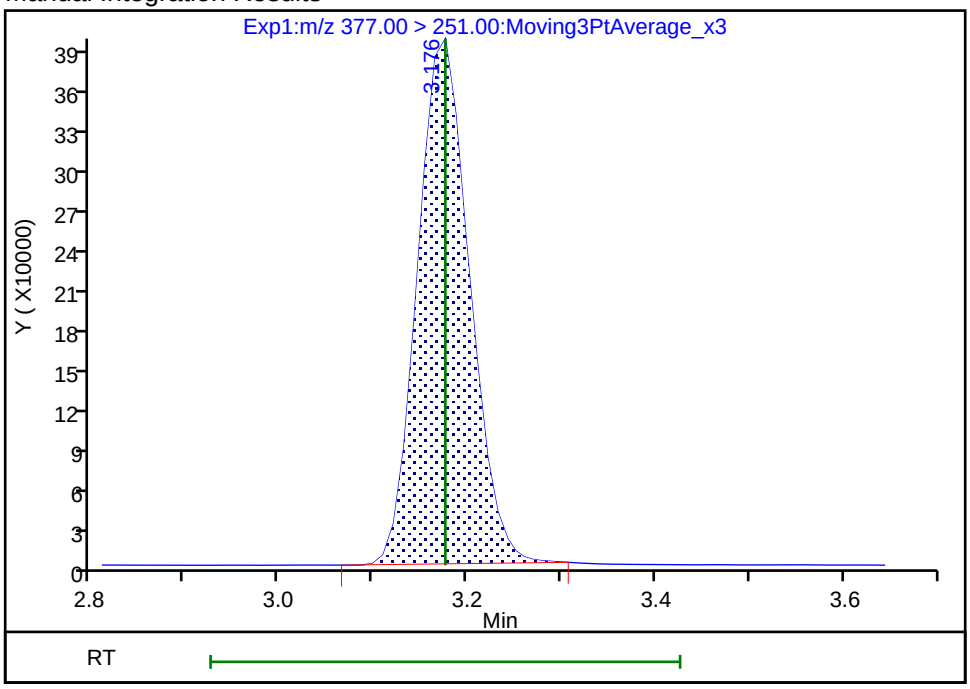
Processing Integration Results

RT: 3.18
Area: 1522066
Amount: 0.493208
Amount Units: ng/ml



Manual Integration Results

RT: 3.18
Area: 1505829
Amount: 0.505025
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:47:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

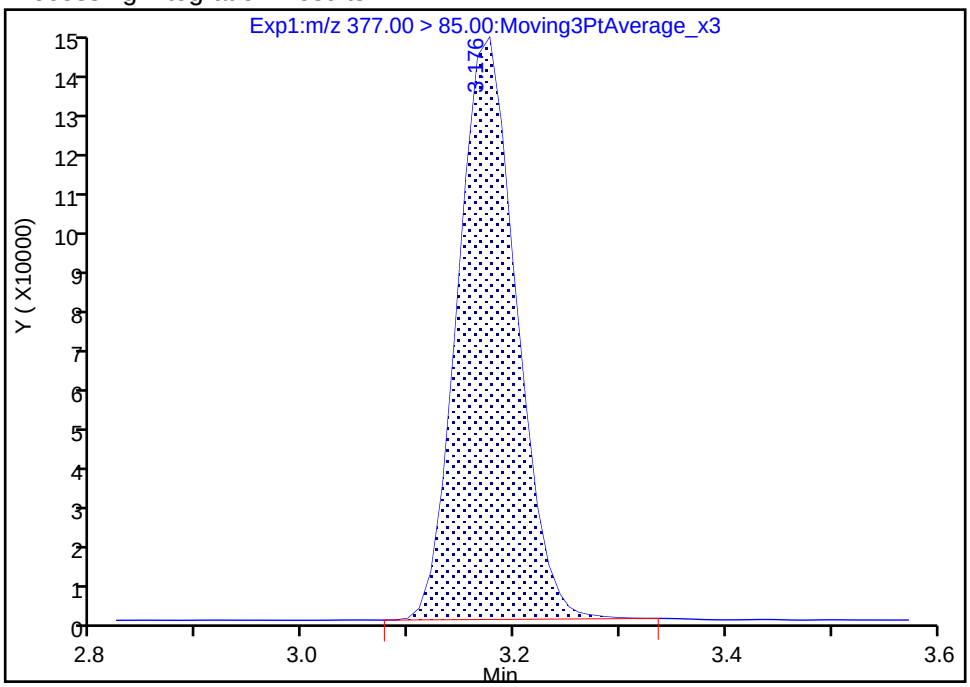
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d				
Injection Date:	05-May-2022 15:29:57	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

77 DONA, CAS: 919005-14-4

Signal: 2

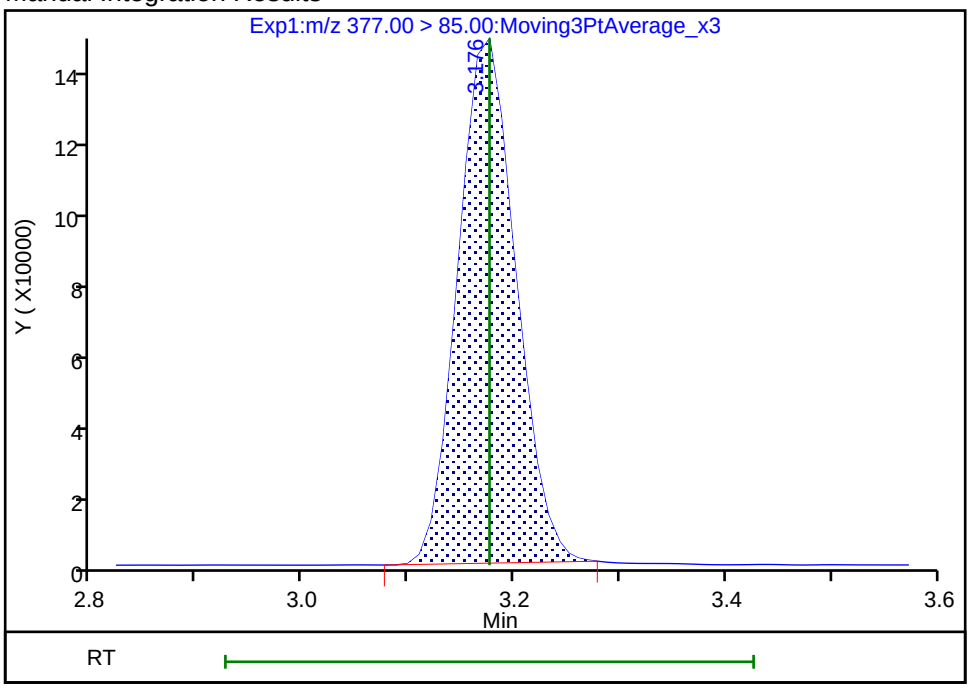
Processing Integration Results

RT: 3.18
Area: 562326
Amount: 0.493208
Amount Units: ng/ml



Manual Integration Results

RT: 3.18
Area: 557201
Amount: 0.505025
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:47:19

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

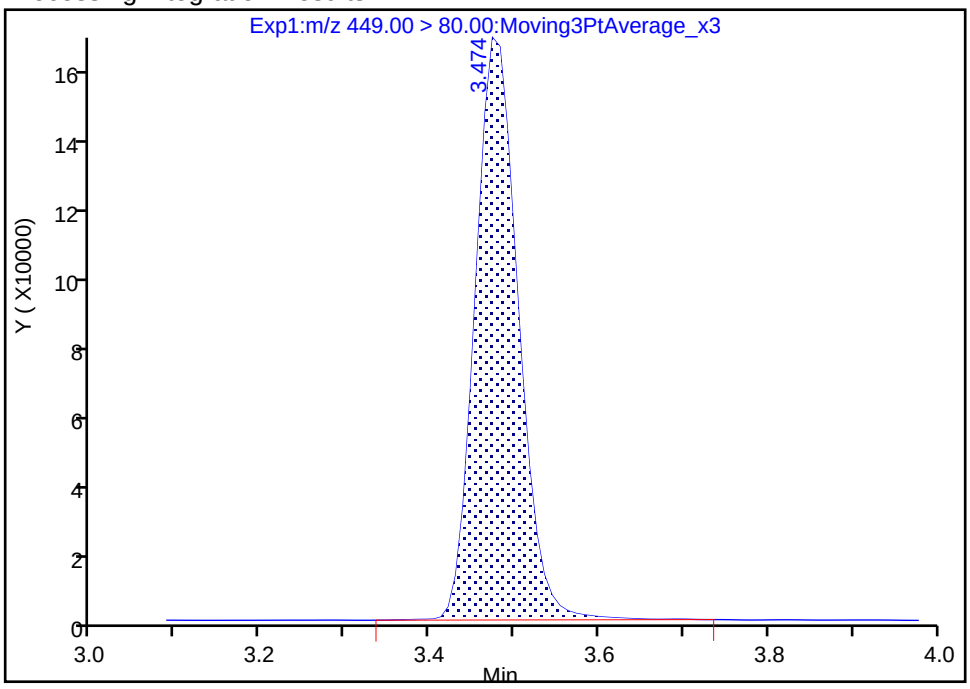
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

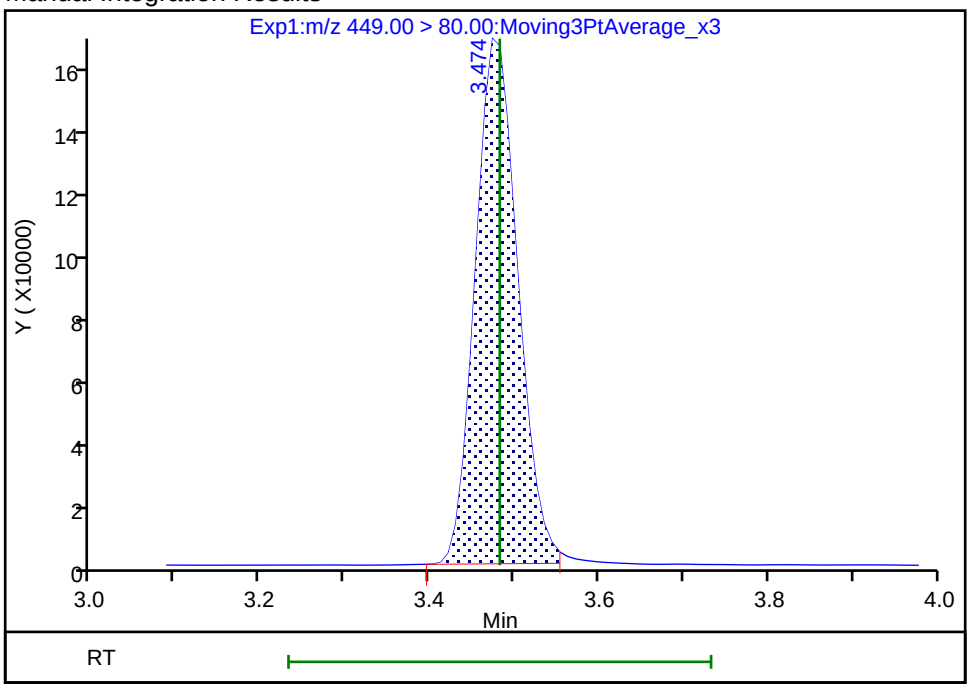
Processing Integration Results

RT: 3.47
Area: 573383
Amount: 0.498736
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 562768
Amount: 0.501745
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:47:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

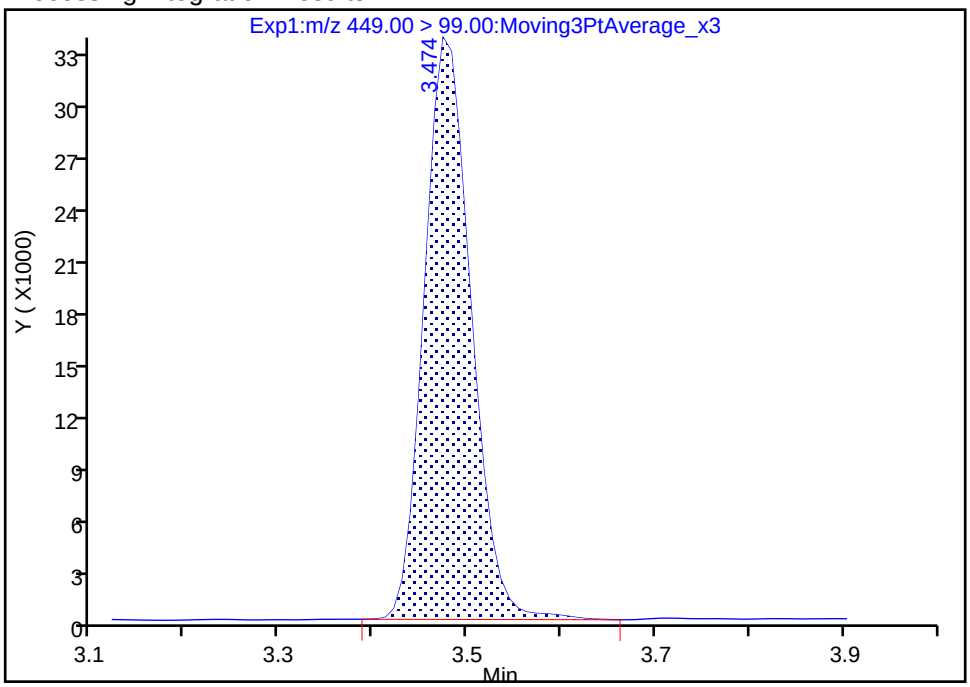
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

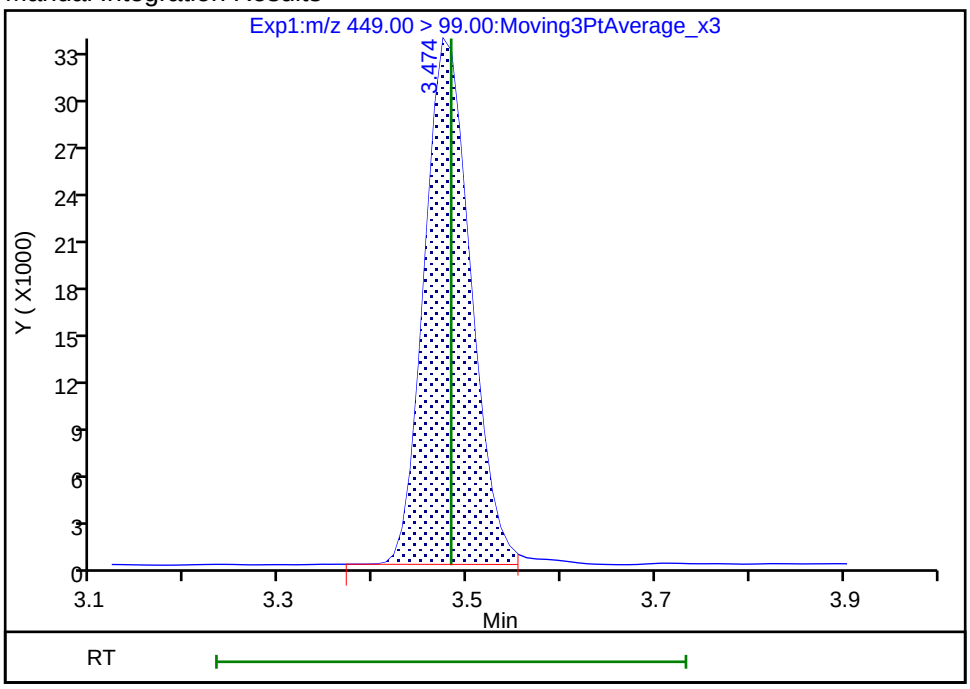
Processing Integration Results

RT: 3.47
Area: 116011
Amount: 0.498736
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 114657
Amount: 0.501745
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:47:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

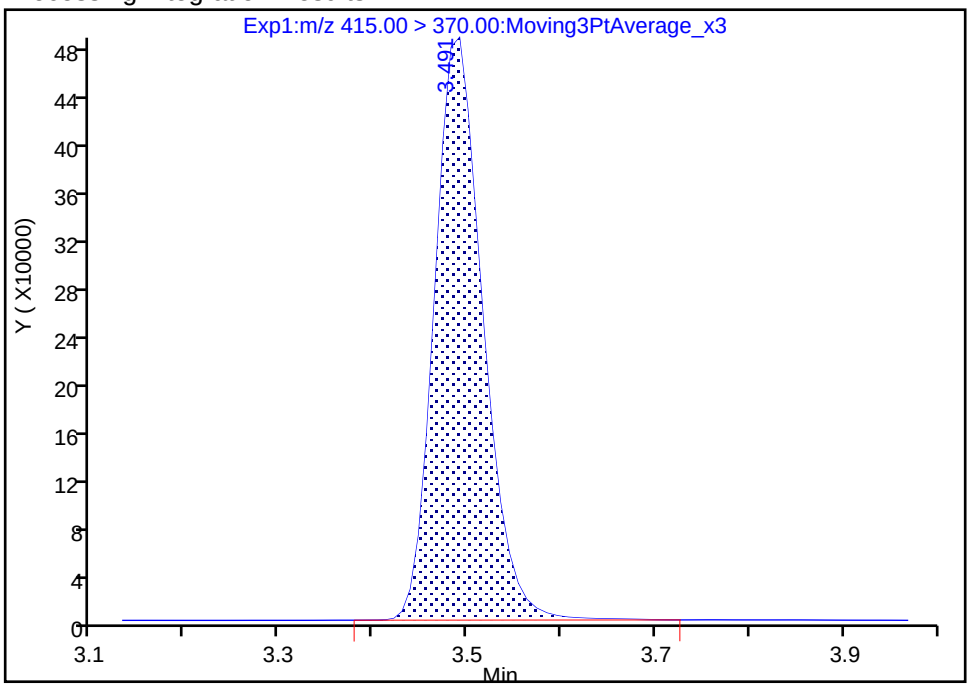
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

* 62 13C2 PFOA, CAS: STL00623

Signal: 1

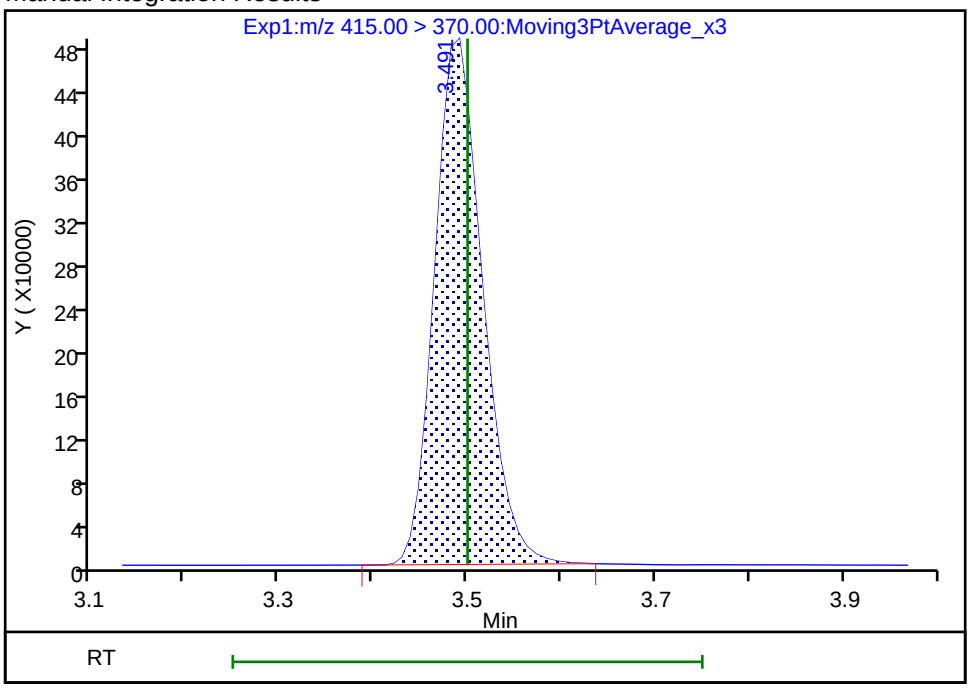
Processing Integration Results

RT: 3.49
Area: 1718730
Amount: 1.250000
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 1707772
Amount: 1.250000
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:47:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

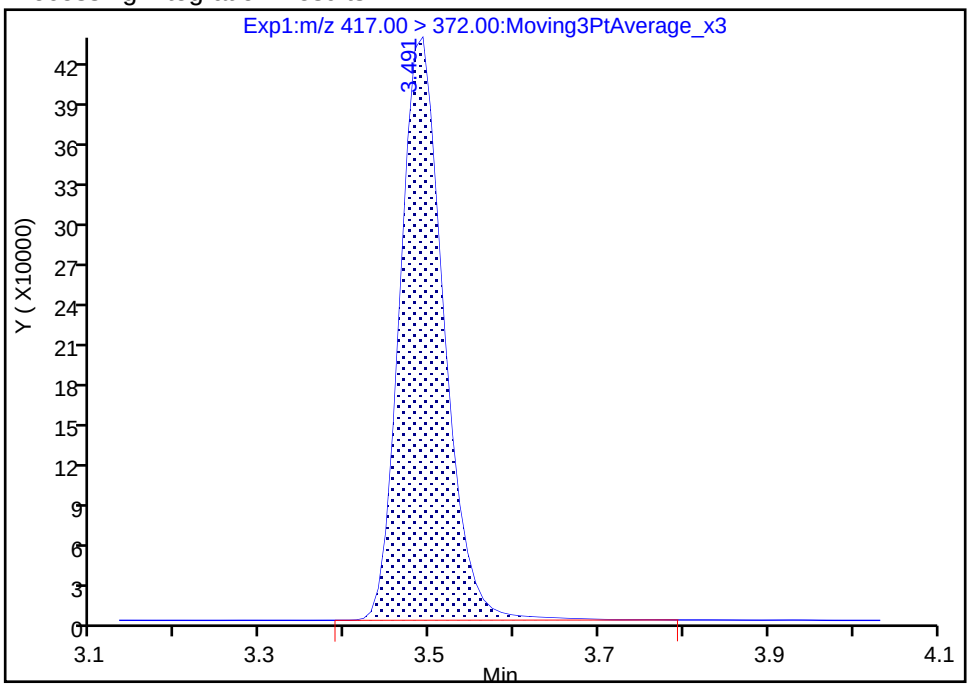
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

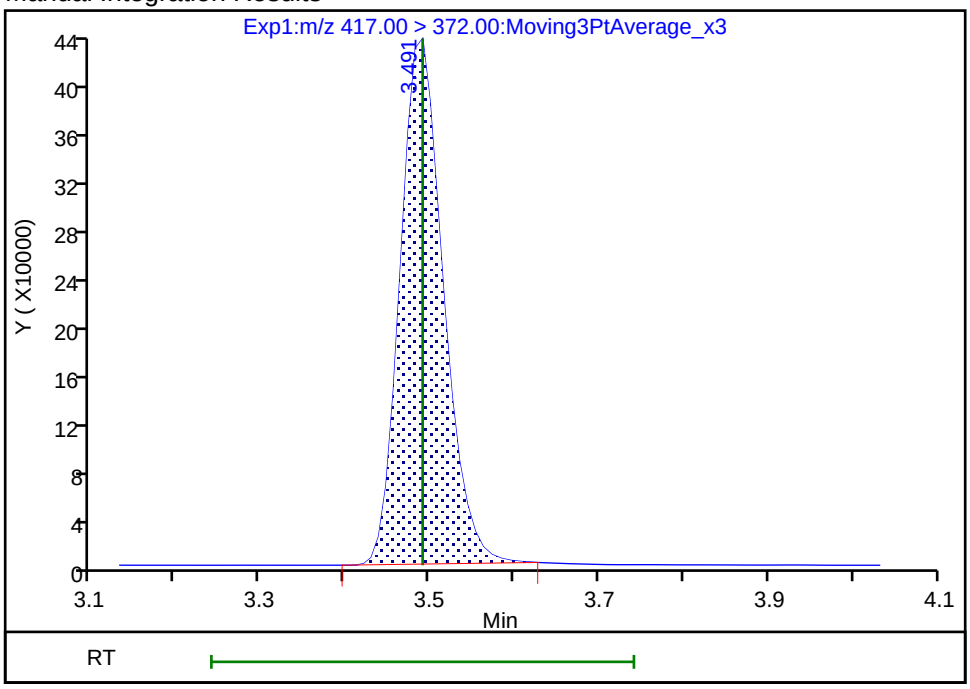
Processing Integration Results

RT: 3.49
Area: 1569102
Amount: 1.204522
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 1548287
Amount: 1.203760
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:47:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

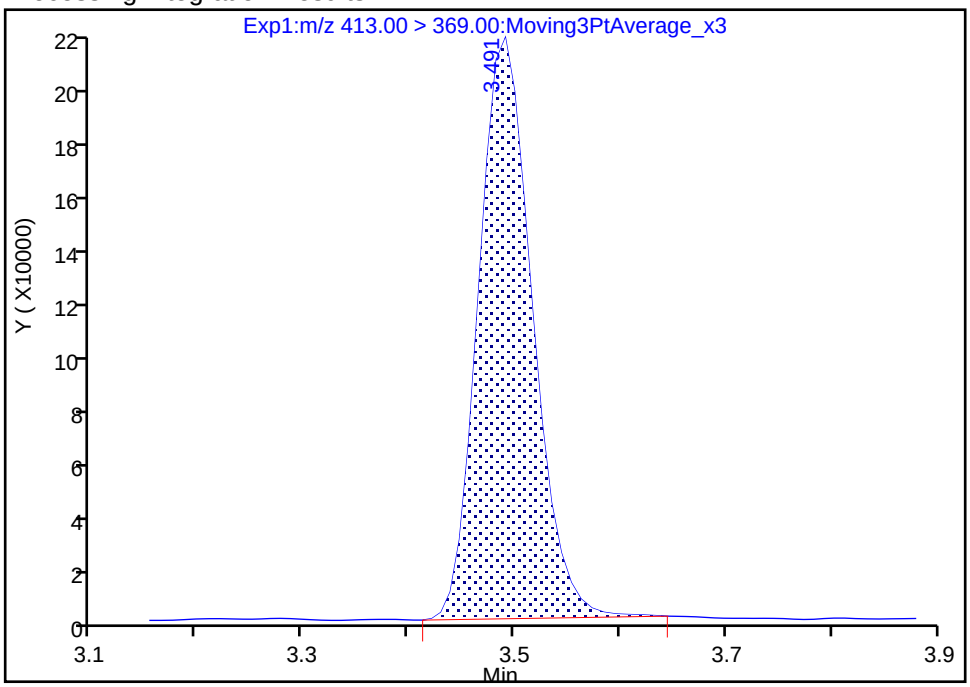
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

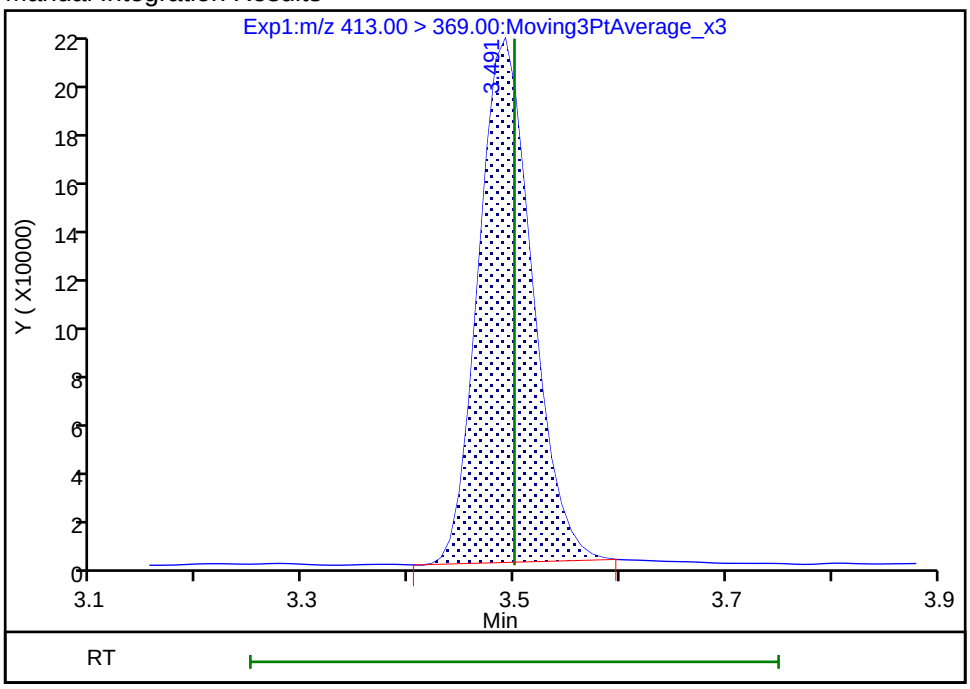
Processing Integration Results

RT: 3.49
Area: 735736
Amount: 0.529930
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 727519
Amount: 0.524451
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:48:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

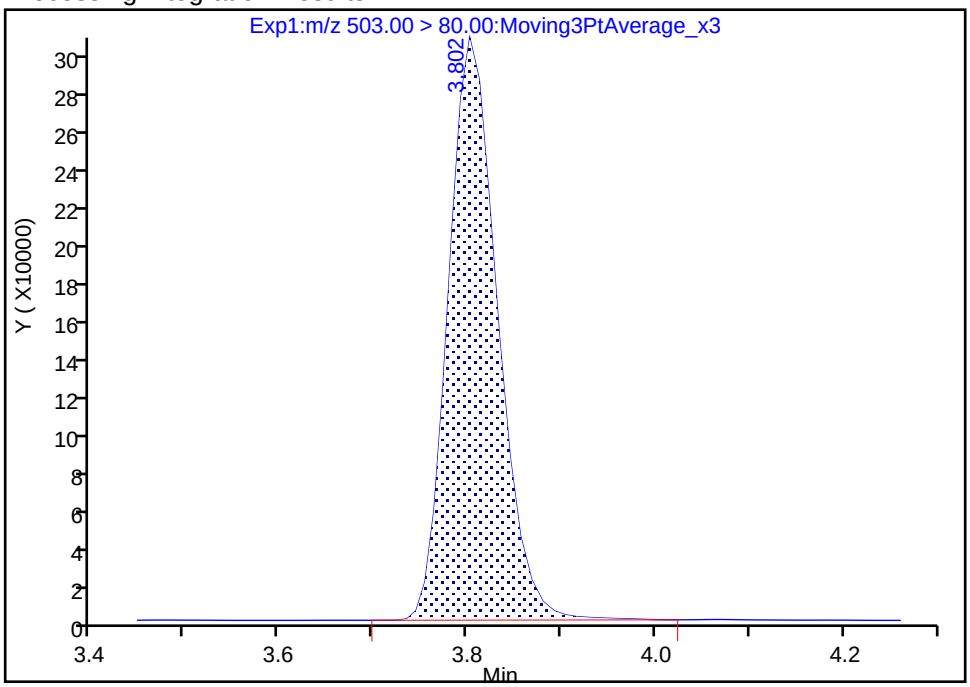
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

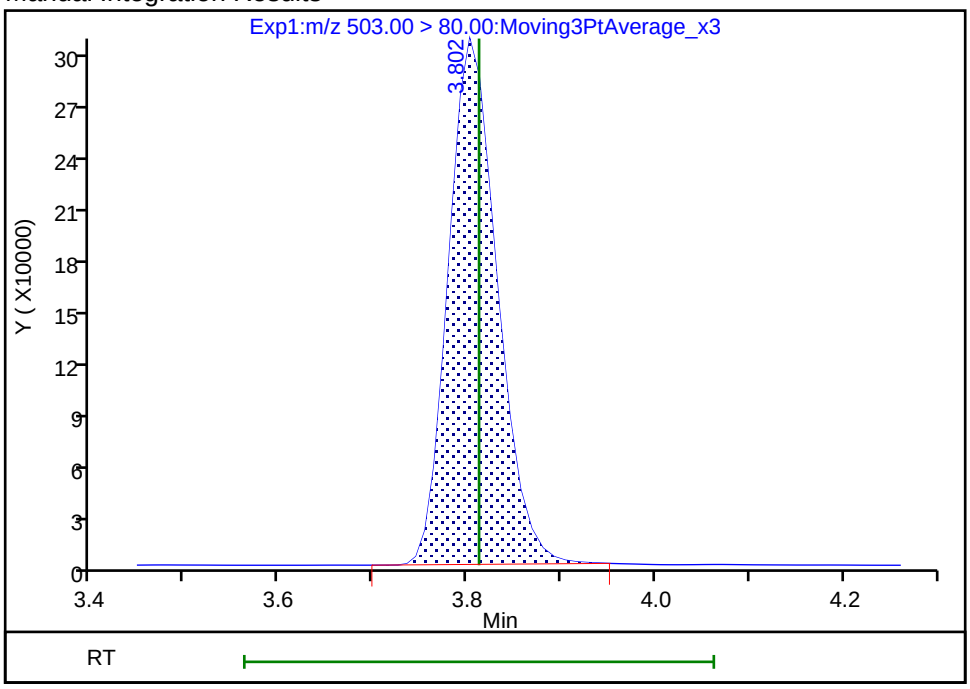
Processing Integration Results

RT: 3.80
Area: 1123061
Amount: 1.175441
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 1115109
Amount: 1.128928
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:48:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

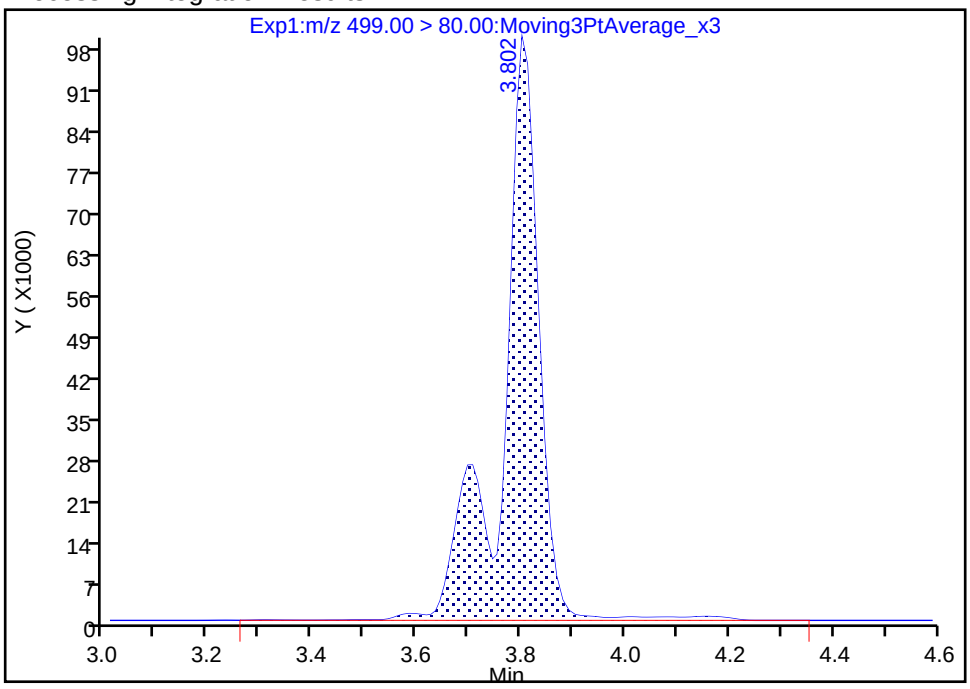
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

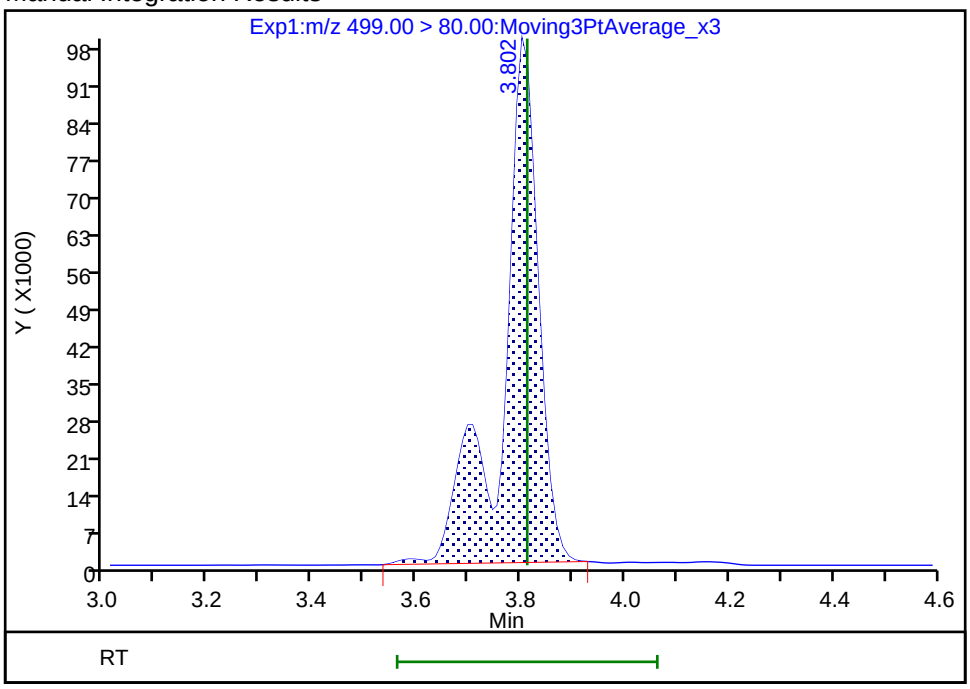
Processing Integration Results

RT: 3.80
Area: 493549
Amount: 0.493230
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 474428
Amount: 0.476099
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:48:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

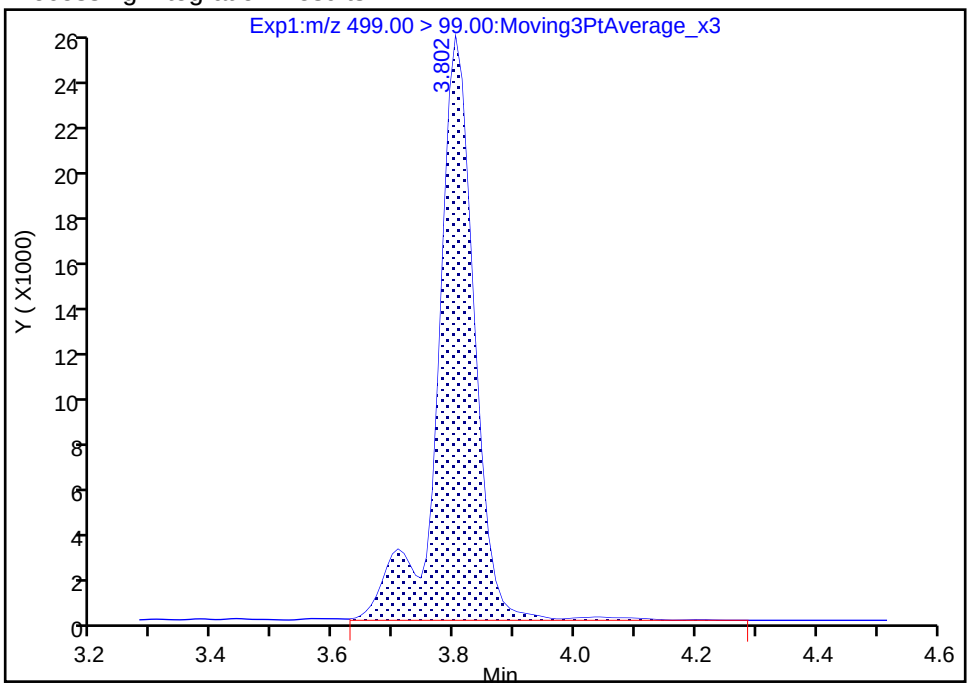
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

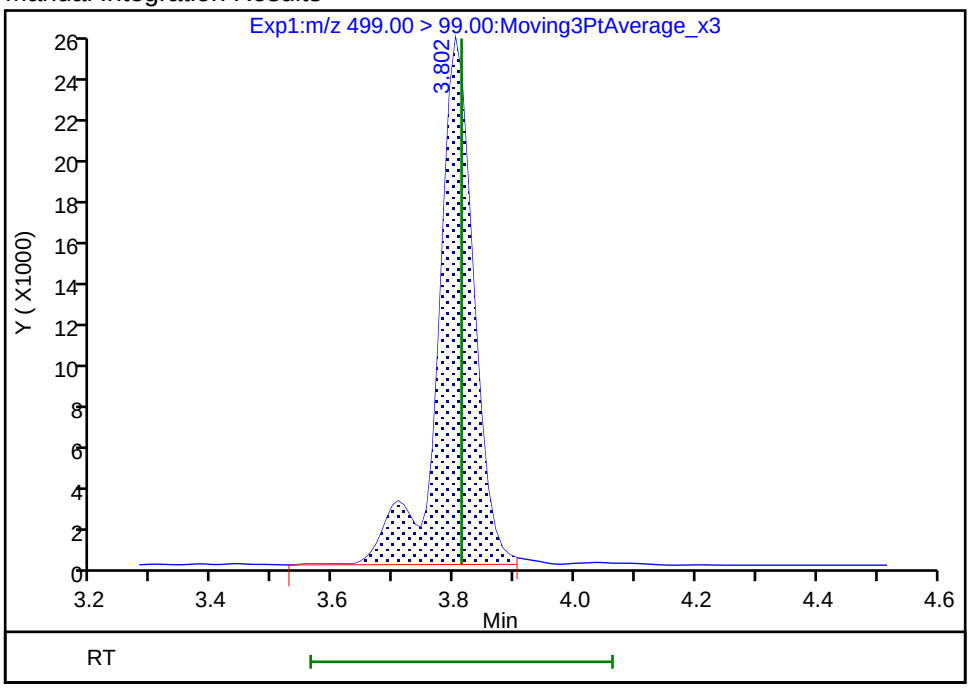
Processing Integration Results

RT: 3.80
Area: 106929
Amount: 0.493230
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 104979
Amount: 0.476099
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:48:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

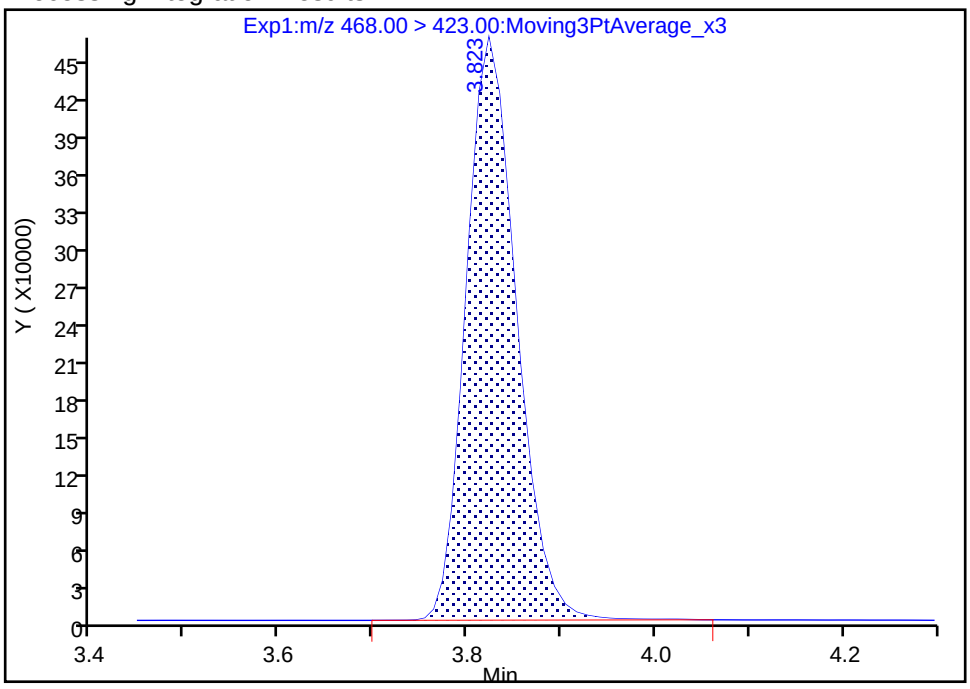
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

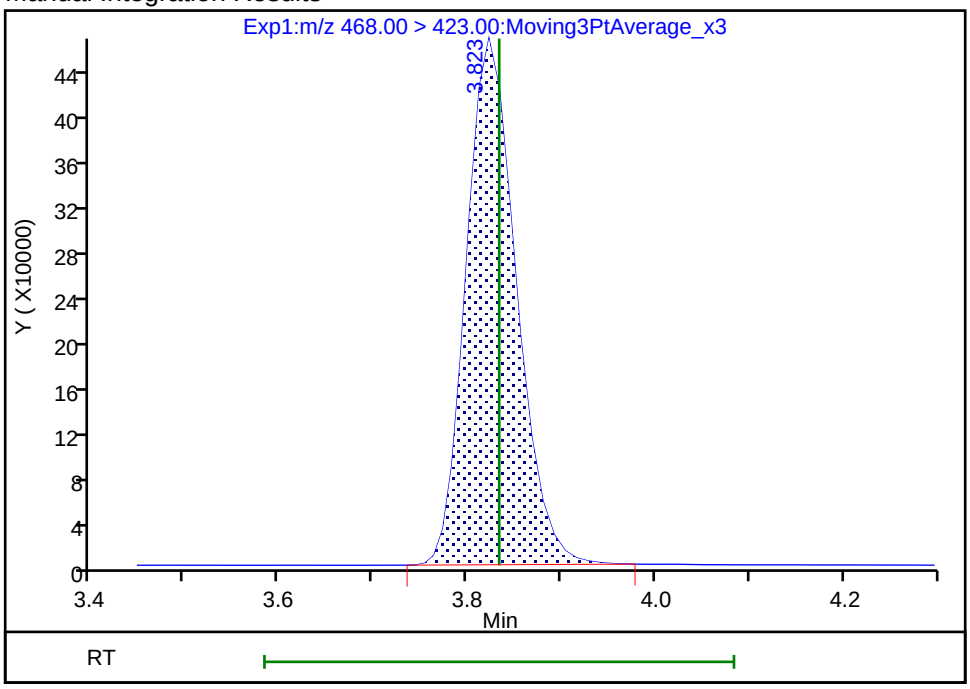
Processing Integration Results

RT: 3.82
Area: 1736085
Amount: 1.264207
Amount Units: ng/ml



Manual Integration Results

RT: 3.82
Area: 1729455
Amount: 1.237432
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:48:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

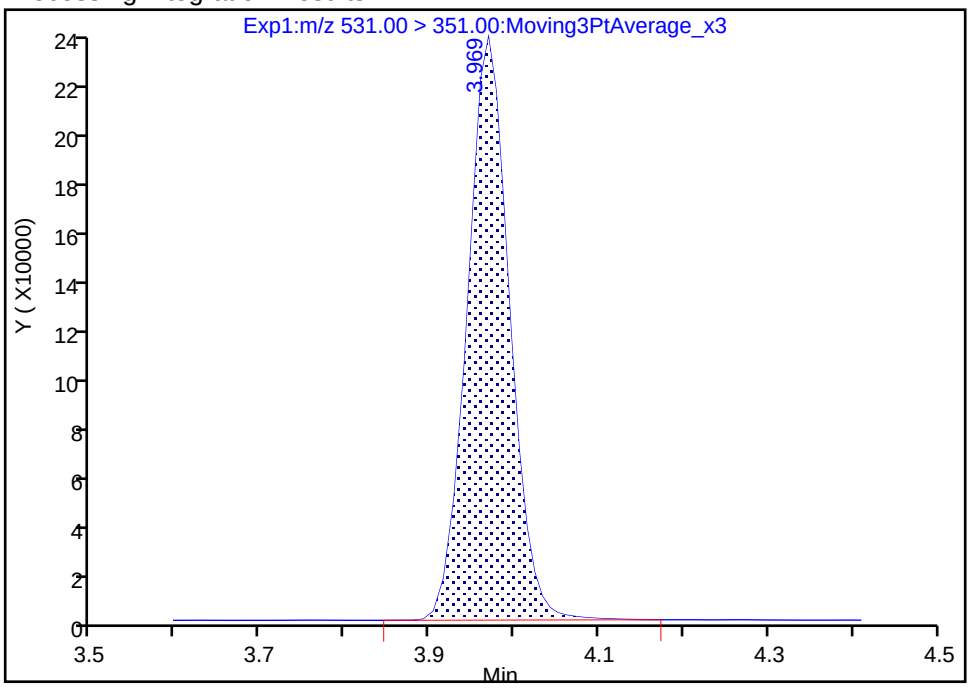
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

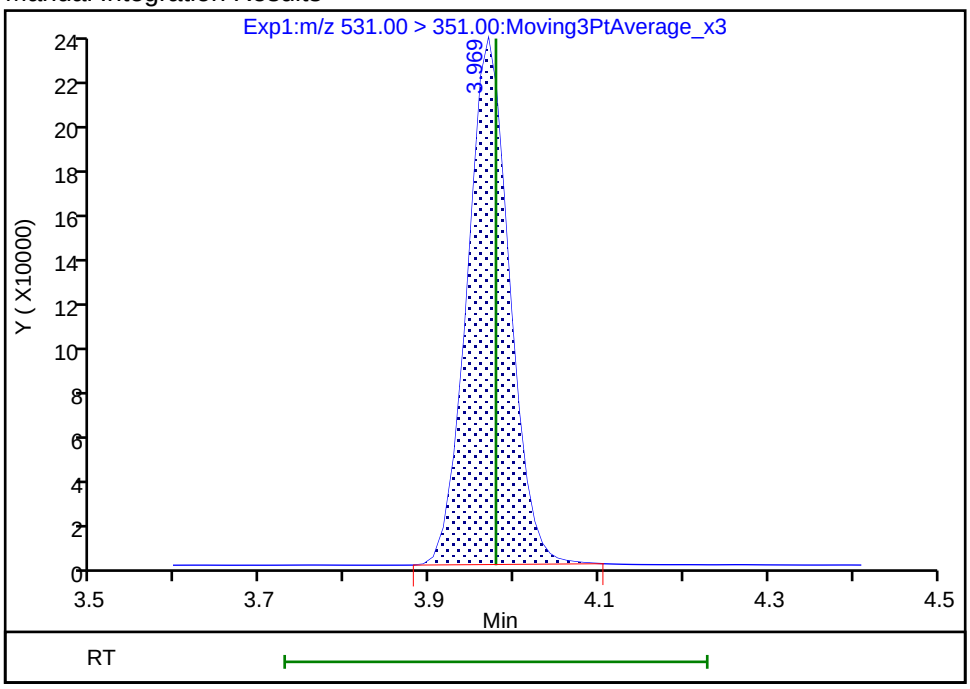
Processing Integration Results

RT: 3.97
Area: 818804
Amount: 0.483035
Amount Units: ng/ml



Manual Integration Results

RT: 3.97
Area: 814771
Amount: 0.494782
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:48:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

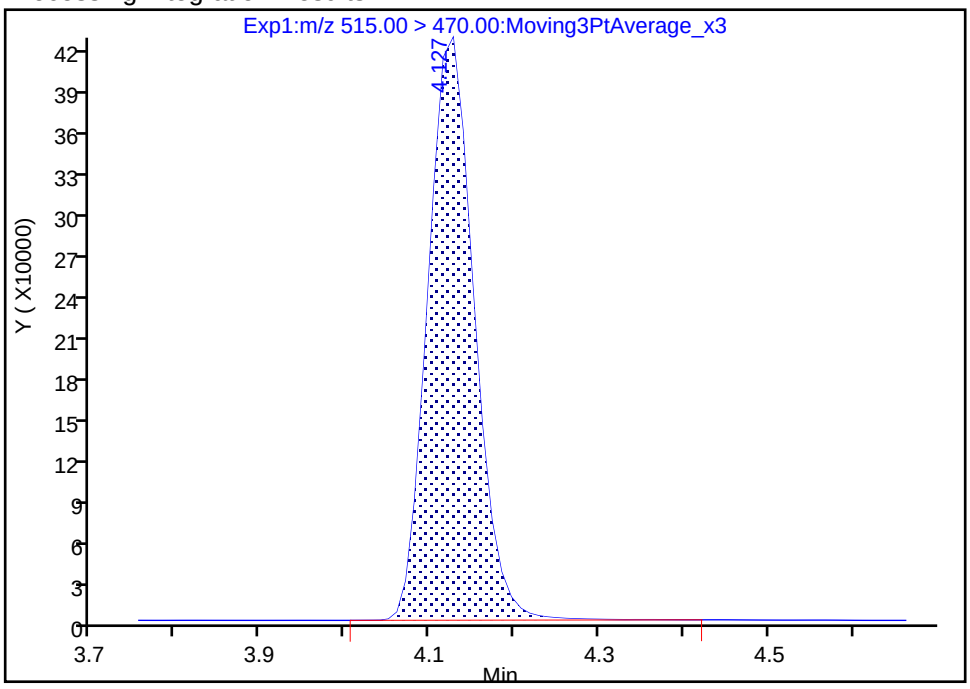
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

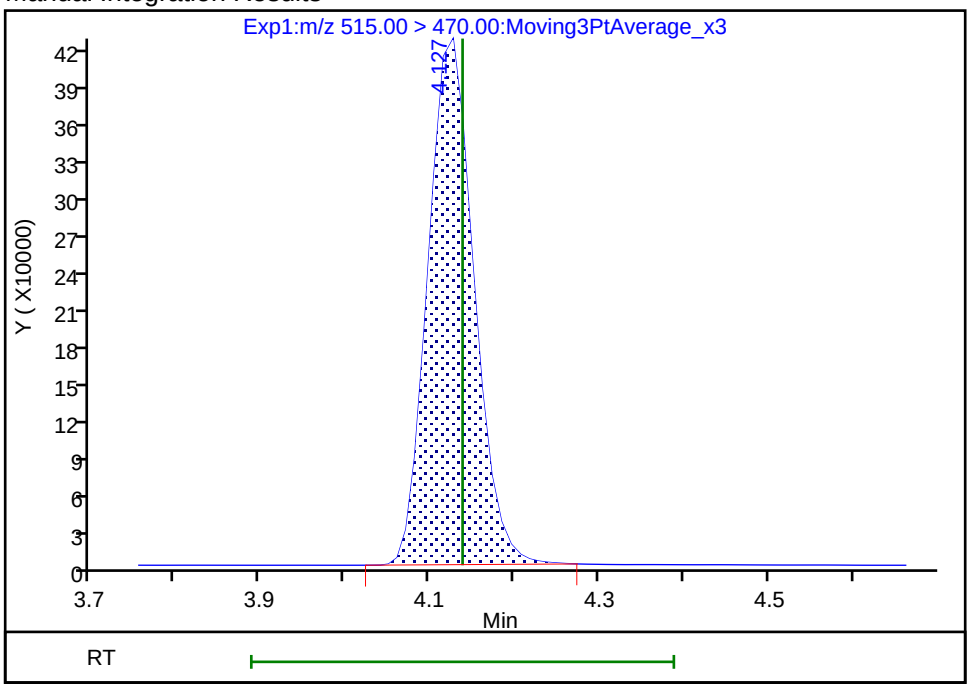
Processing Integration Results

RT: 4.13
Area: 1611523
Amount: 1.229734
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 1603259
Amount: 1.191328
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:48:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

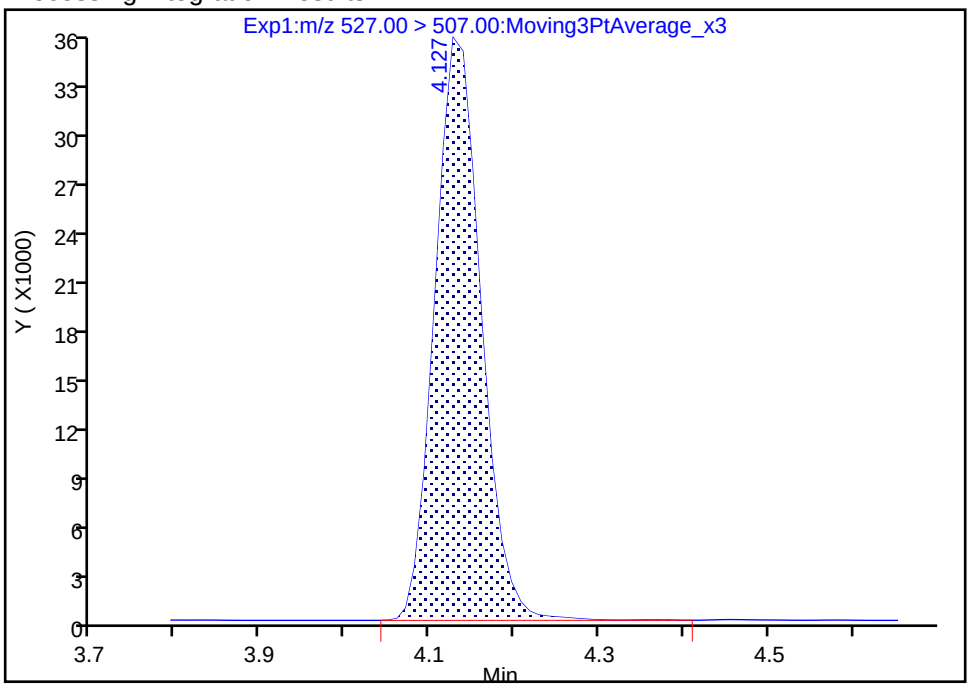
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

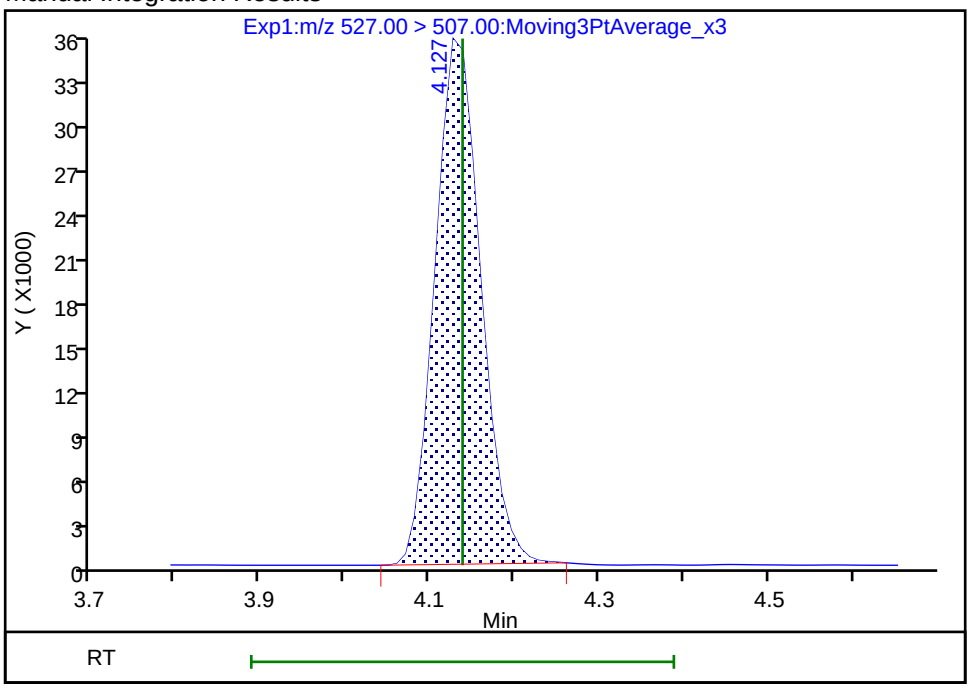
Processing Integration Results

RT: 4.13
Area: 134025
Amount: 0.492587
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 132678
Amount: 0.496571
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:48:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

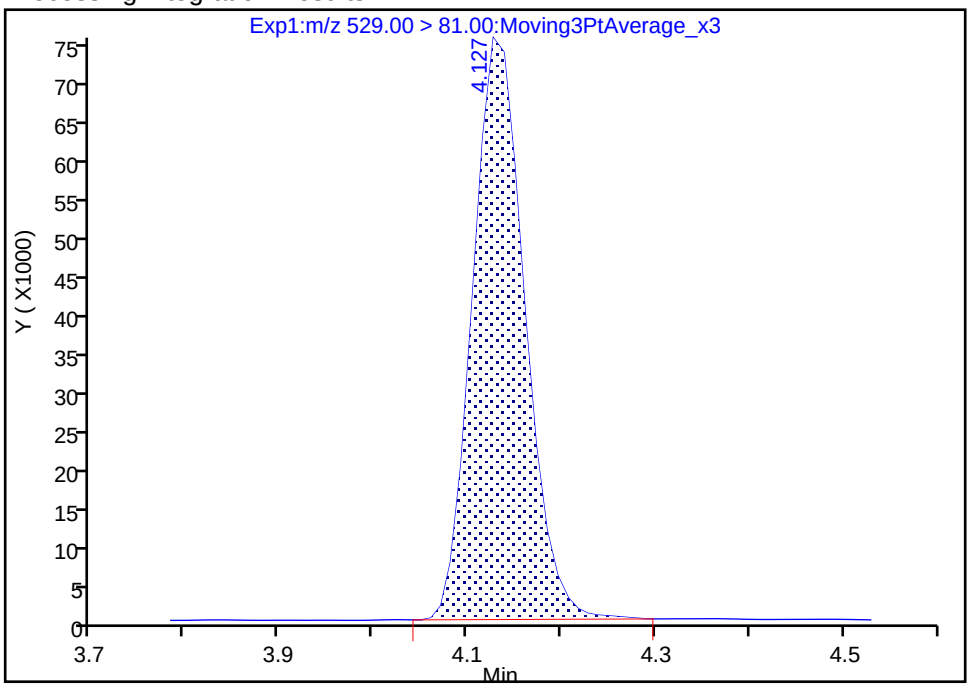
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 26 M2-8:2 FTS, CAS: STL02280

Signal: 1

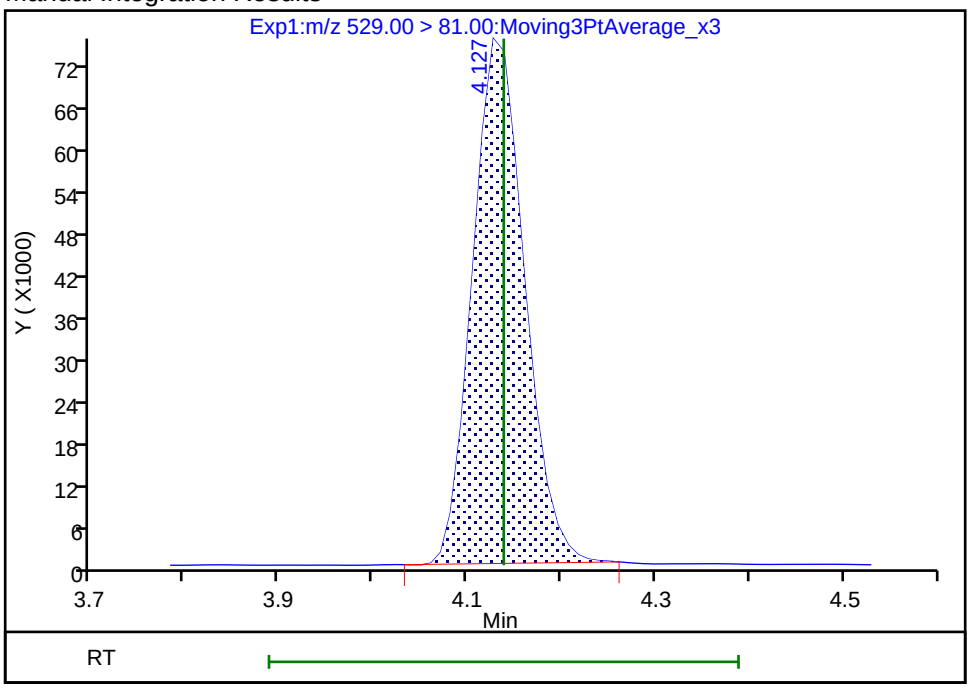
Processing Integration Results

RT: 4.13
Area: 289990
Amount: 1.190093
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 287452
Amount: 1.166850
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:48:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

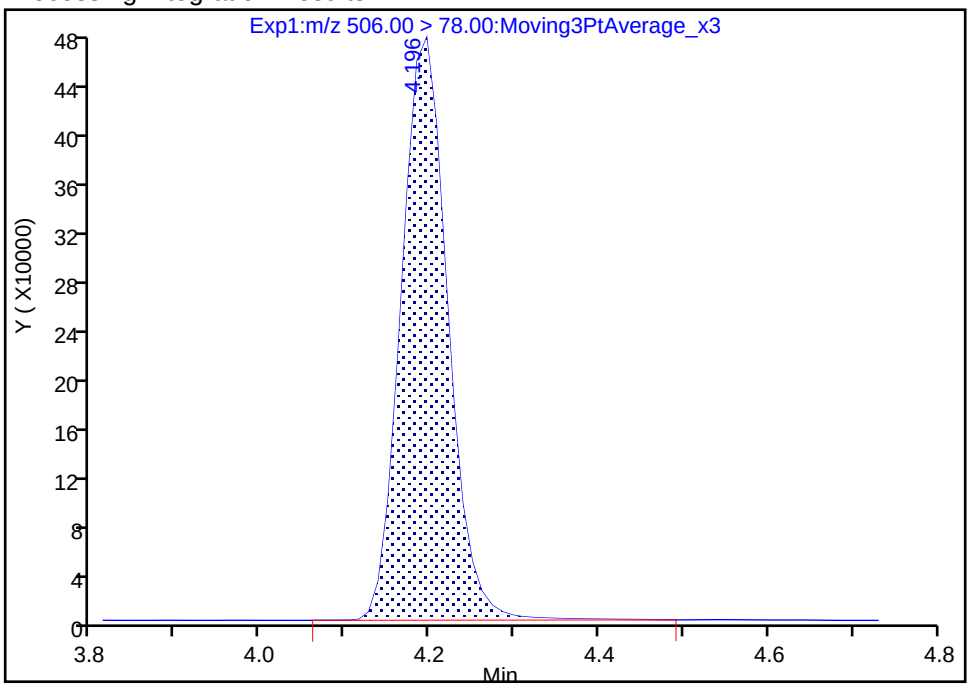
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

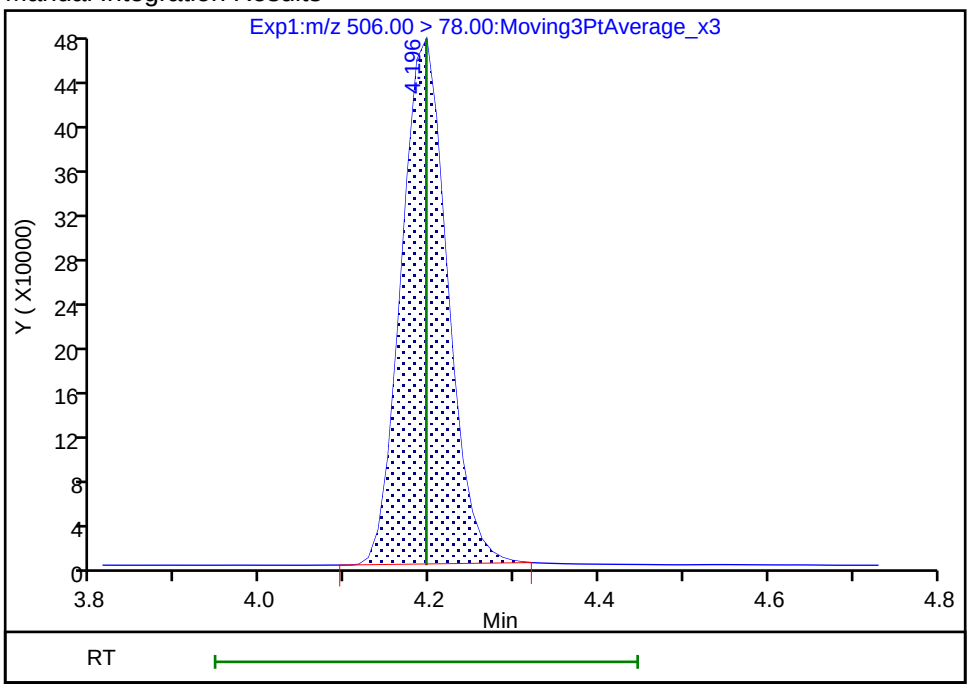
Processing Integration Results

RT: 4.20
Area: 1813284
Amount: 1.217232
Amount Units: ng/ml



Manual Integration Results

RT: 4.20
Area: 1790546
Amount: 1.209333
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:48:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

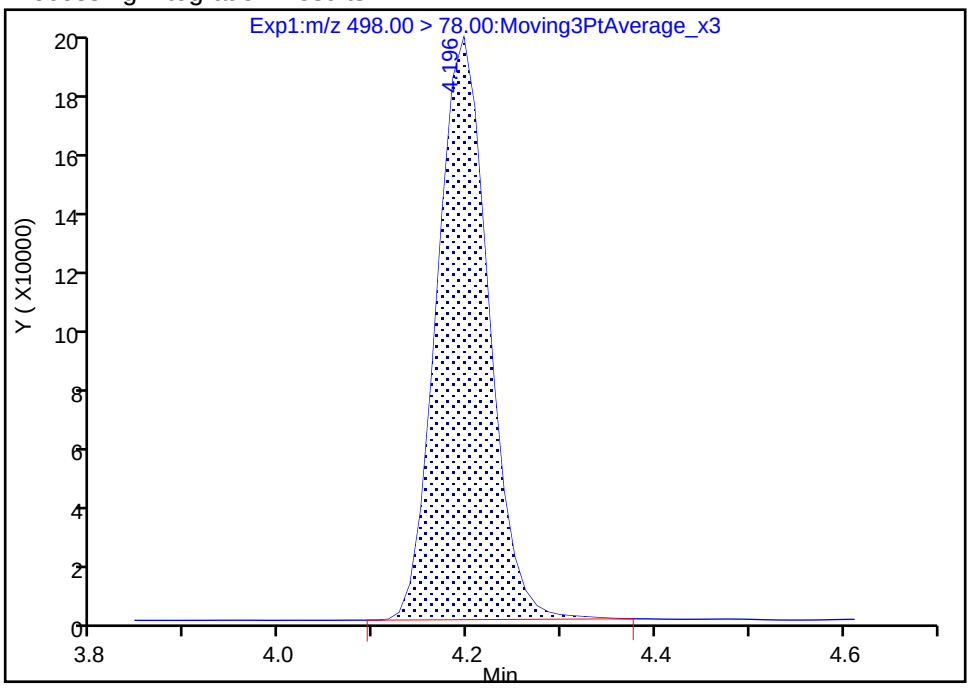
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

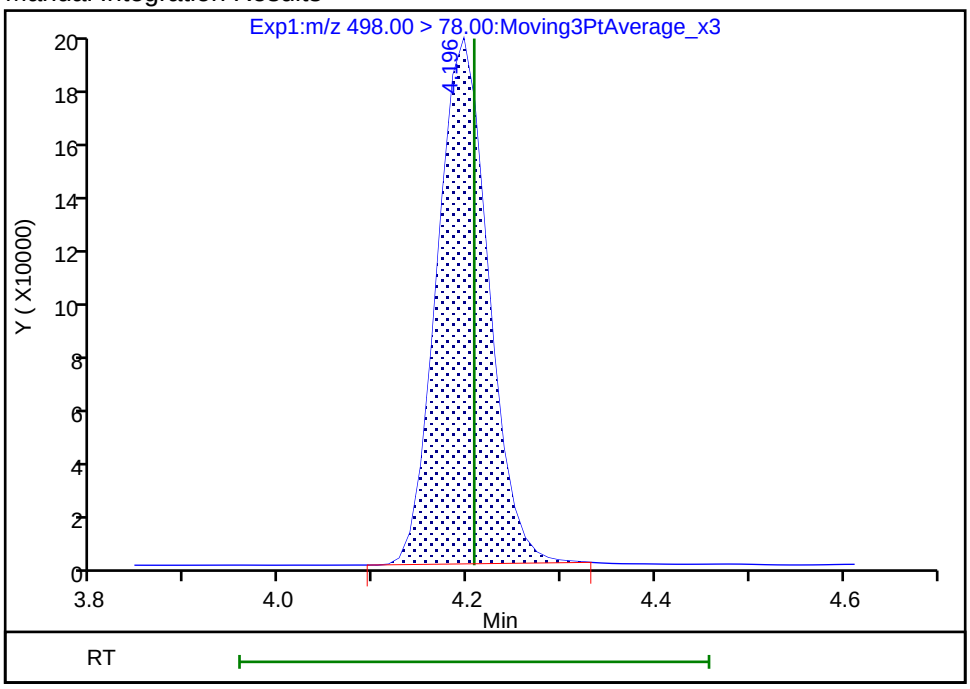
Processing Integration Results

RT: 4.20
Area: 742832
Amount: 0.510896
Amount Units: ng/ml



Manual Integration Results

RT: 4.20
Area: 737822
Amount: 0.507611
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:49:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

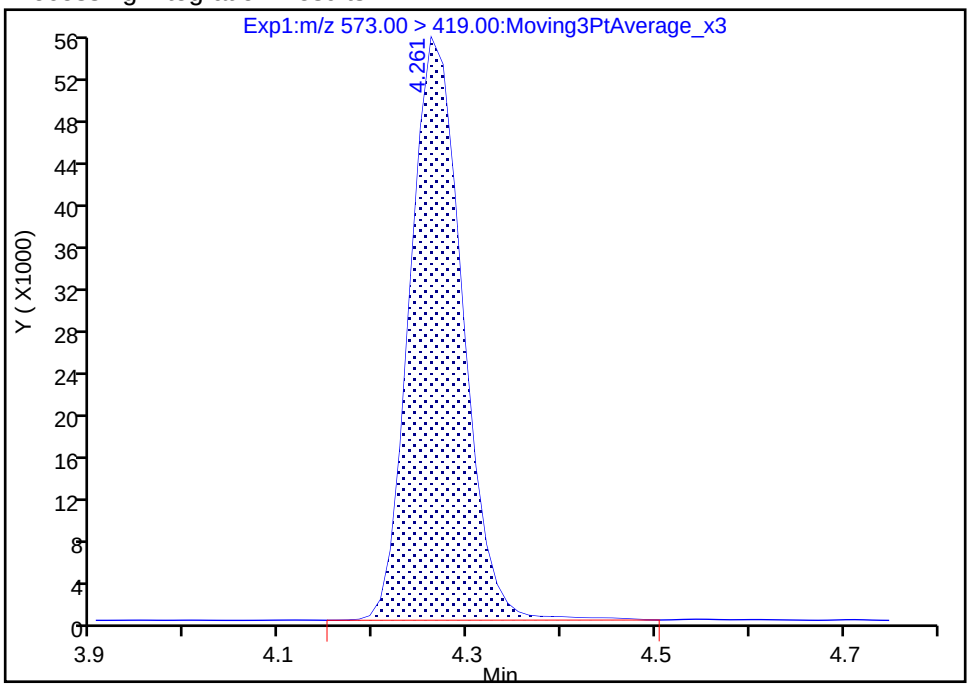
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

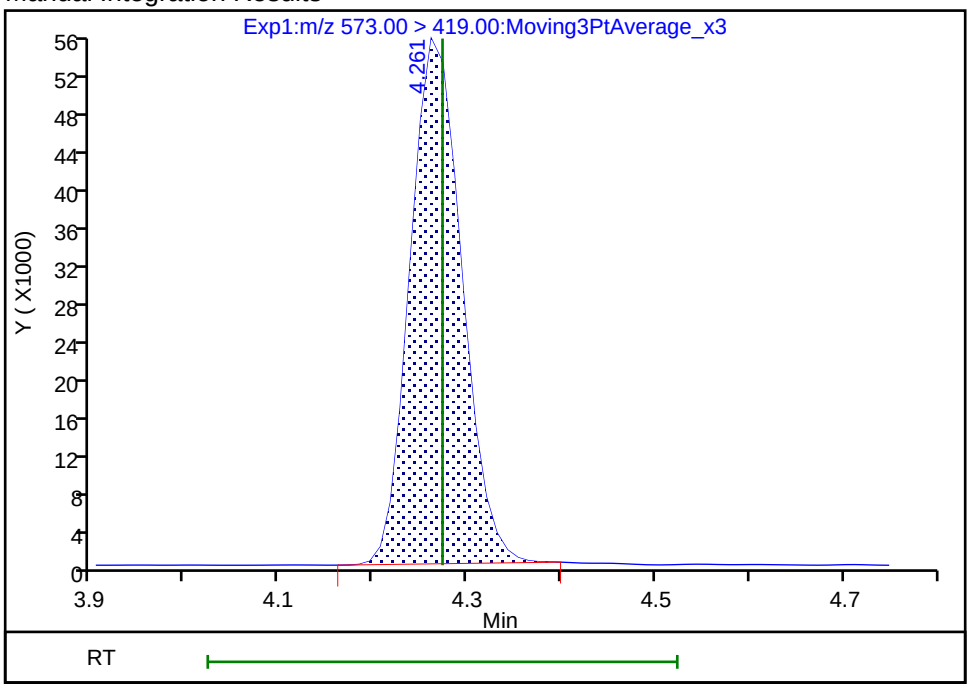
Processing Integration Results

RT: 4.26
Area: 214872
Amount: 1.201307
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 211787
Amount: 1.185611
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:49:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

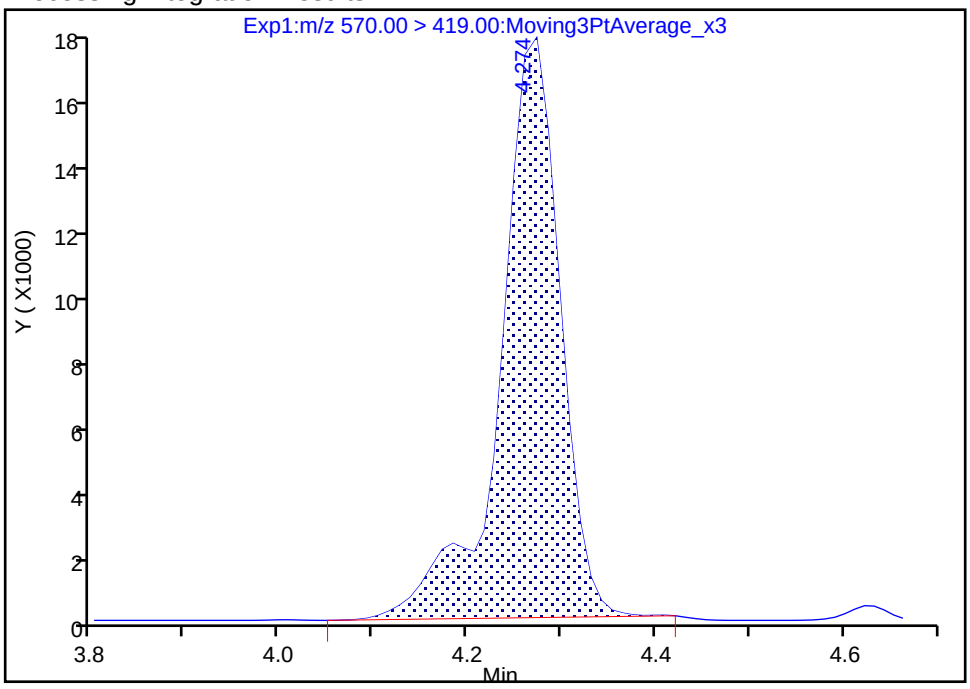
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

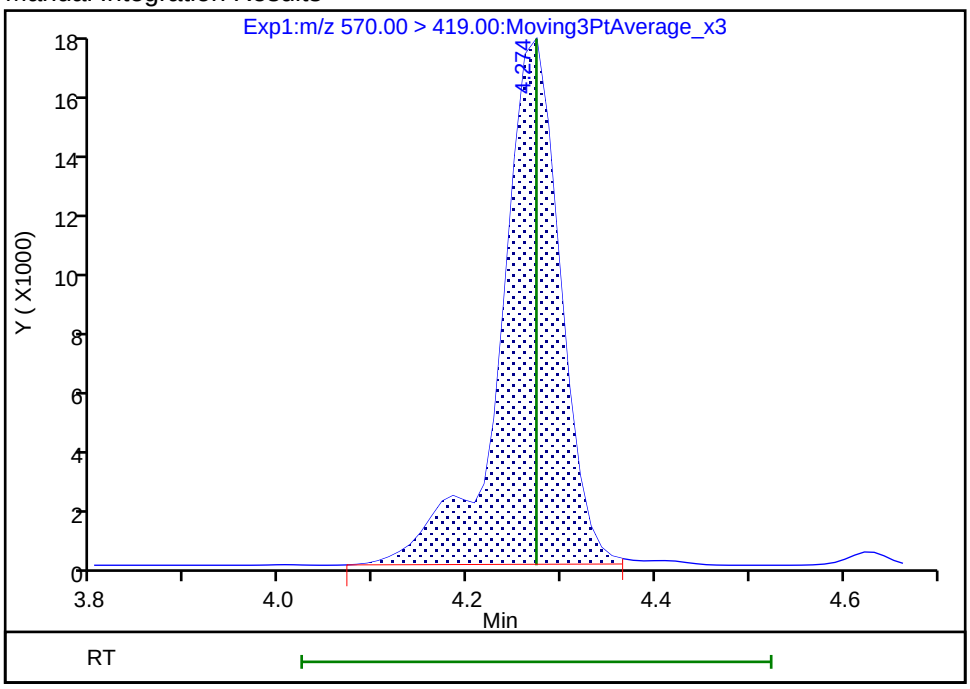
Processing Integration Results

RT: 4.27
Area: 77353
Amount: 0.530055
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 77891
Amount: 0.505515
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:49:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

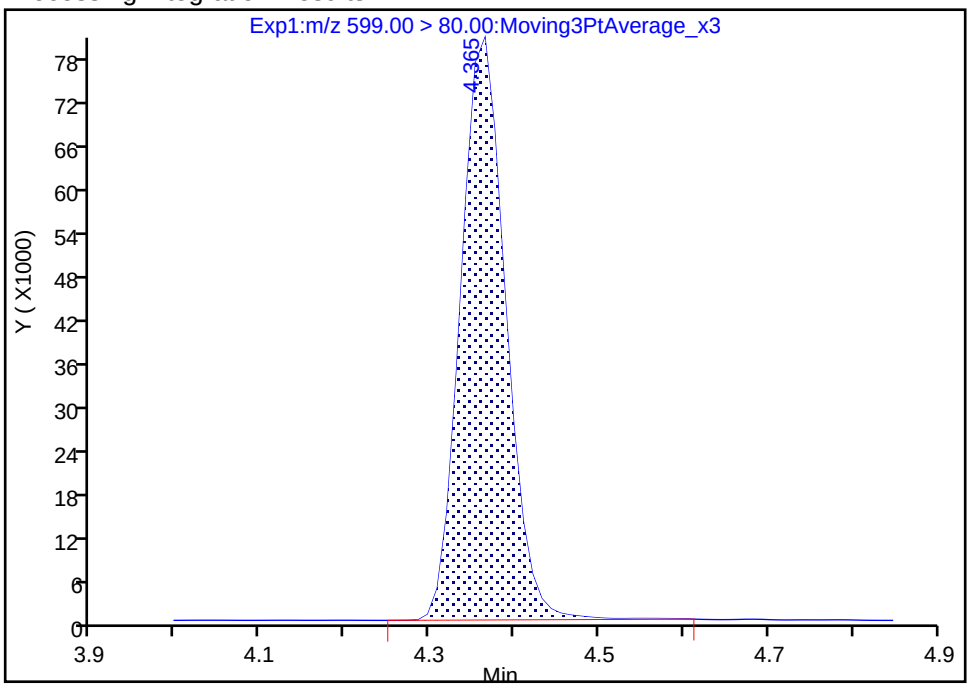
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

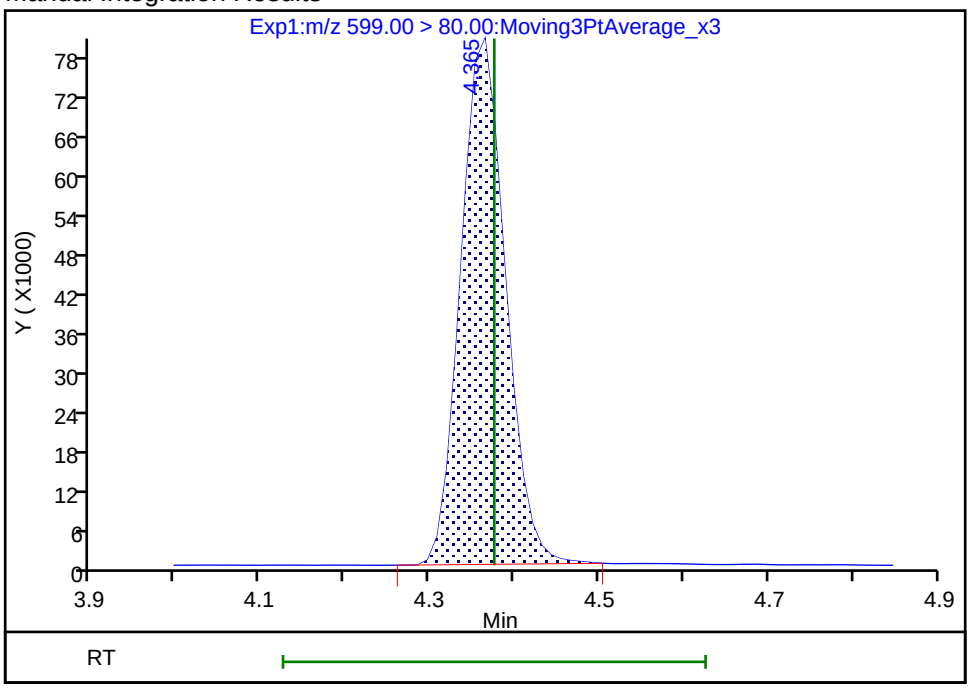
Processing Integration Results

RT: 4.37
Area: 298320
Amount: 0.505381
Amount Units: ng/ml



Manual Integration Results

RT: 4.37
Area: 296331
Amount: 0.514880
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:49:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

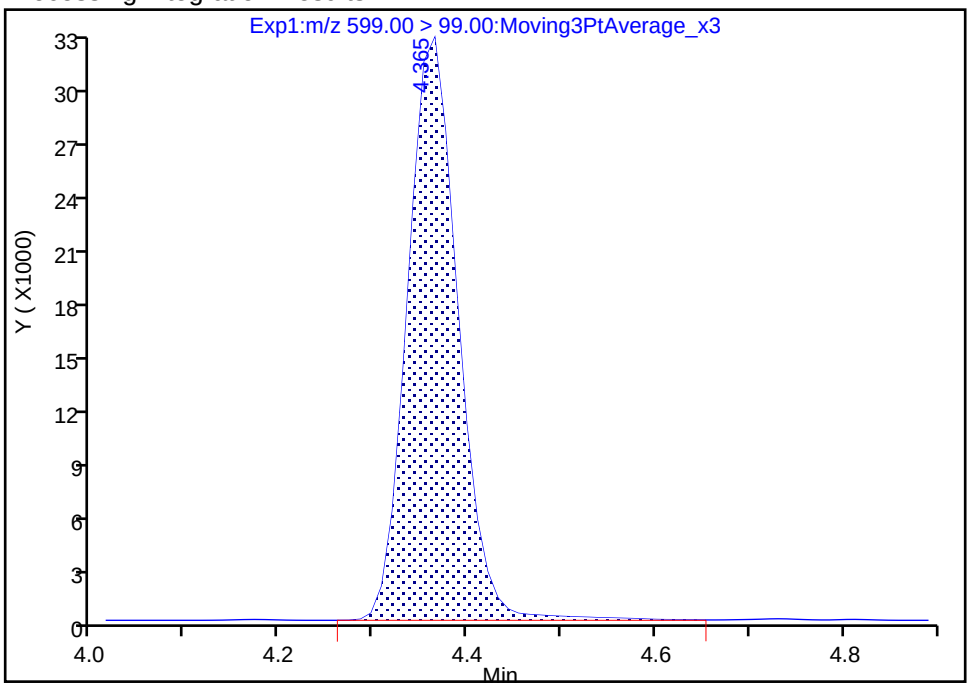
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

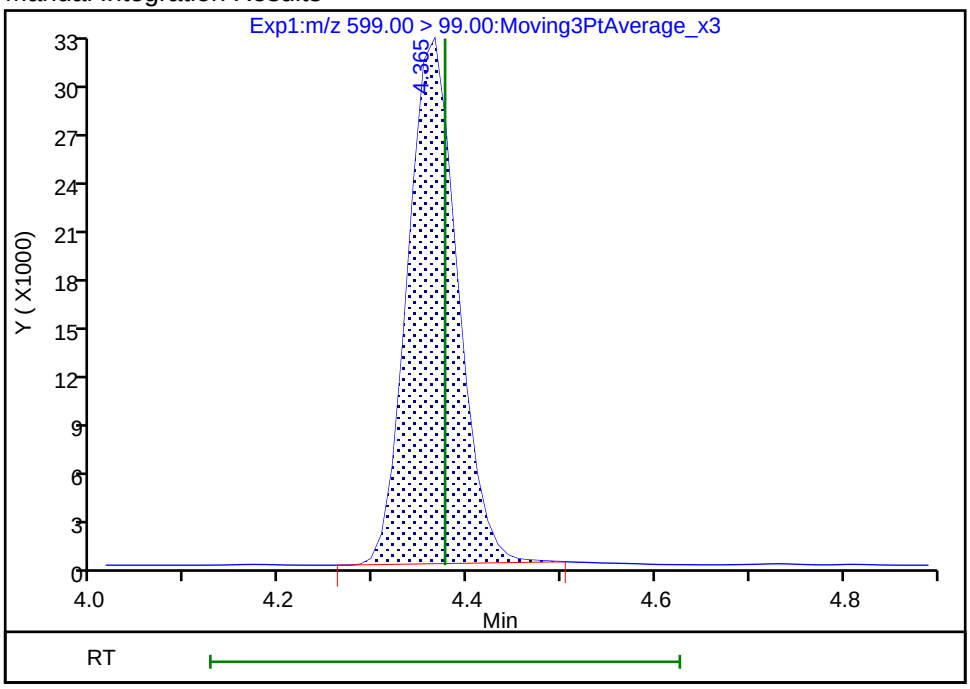
Processing Integration Results

RT: 4.37
Area: 120728
Amount: 0.505381
Amount Units: ng/ml



Manual Integration Results

RT: 4.37
Area: 118358
Amount: 0.514880
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:49:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

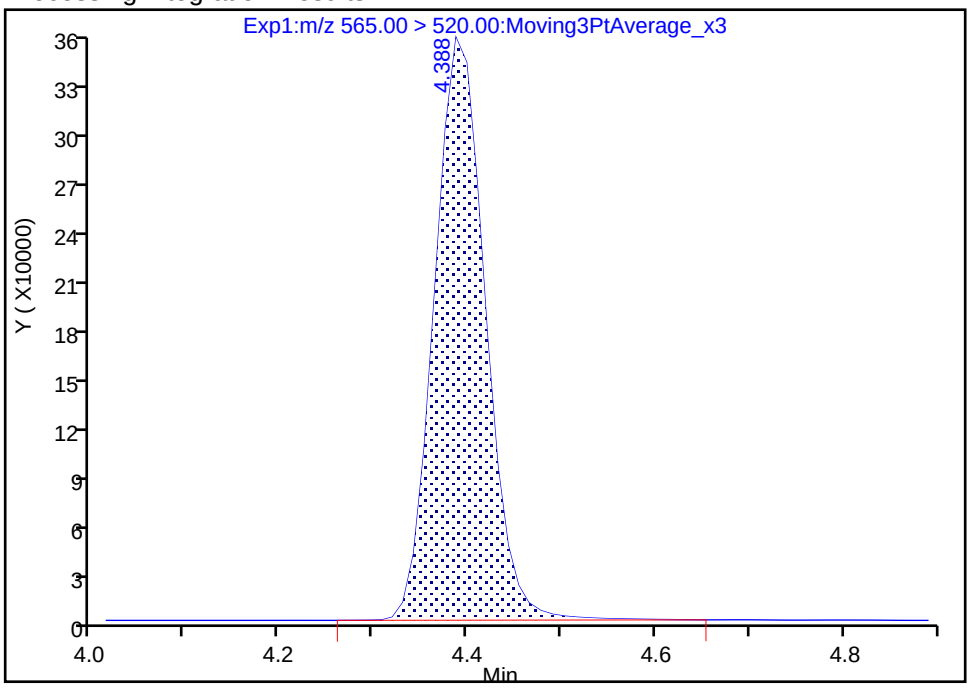
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

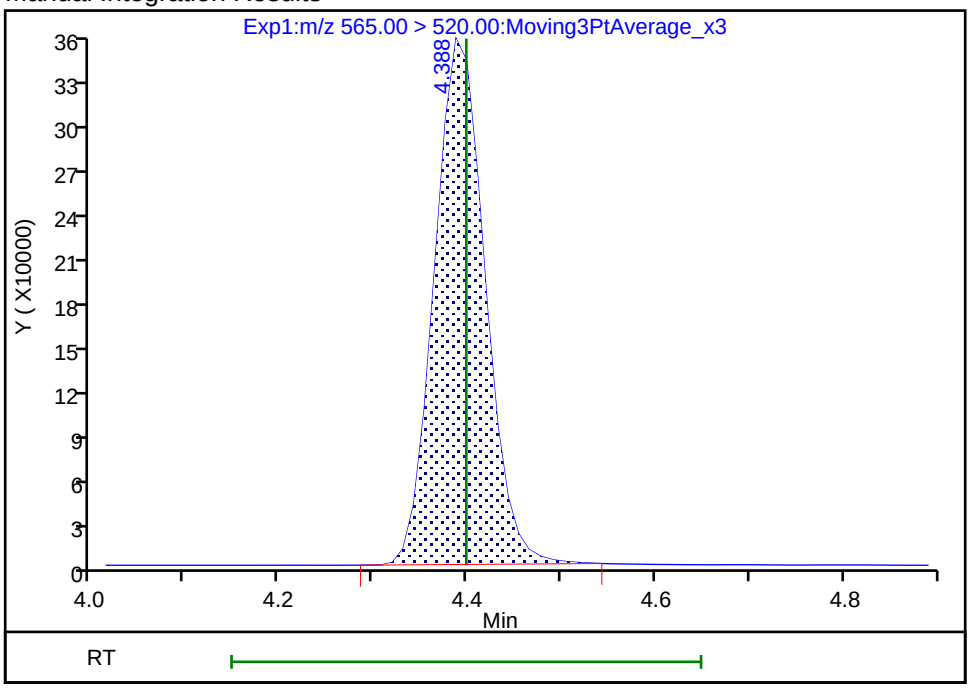
Processing Integration Results

RT: 4.39
Area: 1352233
Amount: 1.272510
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 1342382
Amount: 1.242358
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:49:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

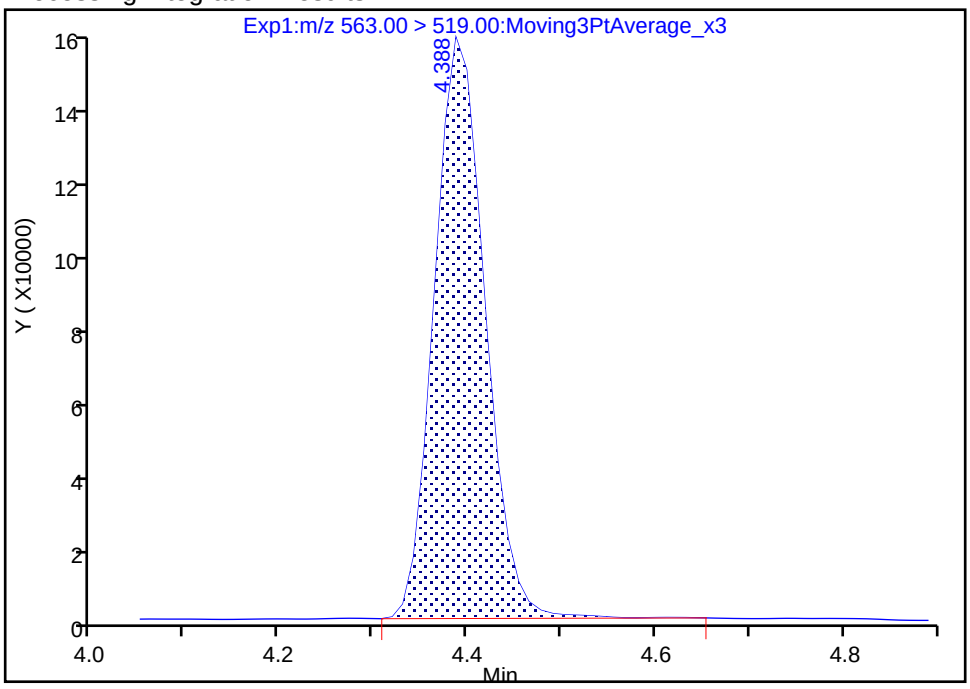
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

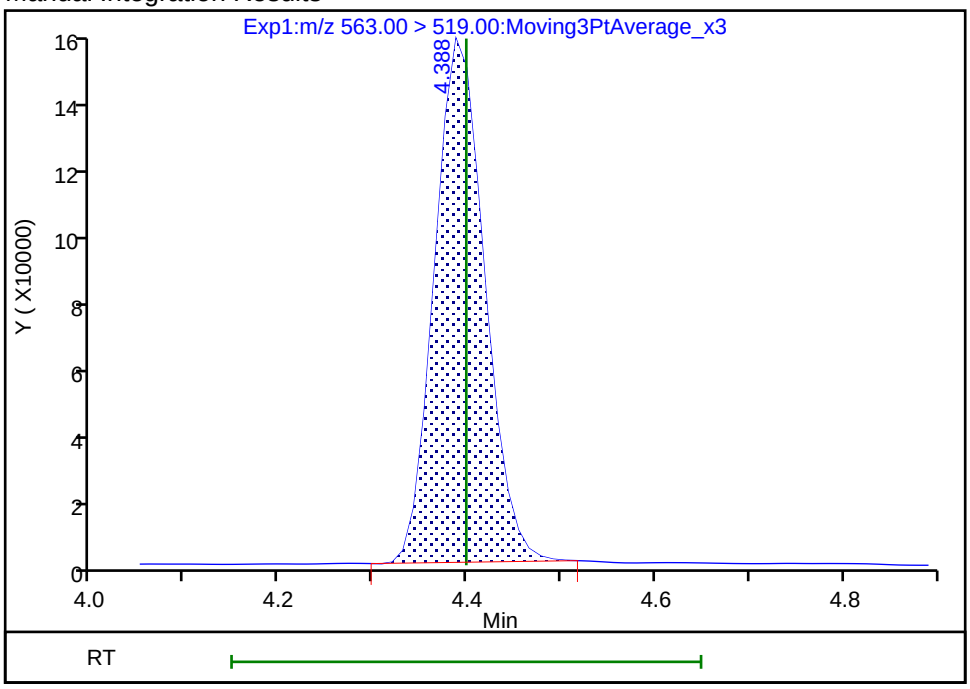
Processing Integration Results

RT: 4.39
Area: 593692
Amount: 0.526741
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 586147
Amount: 0.529616
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:49:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

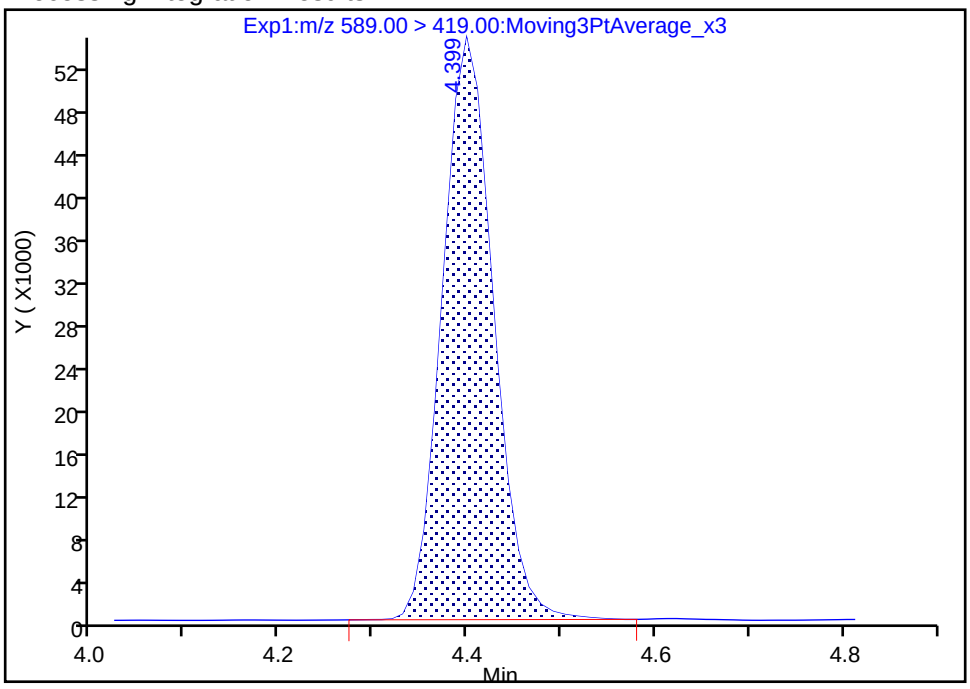
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

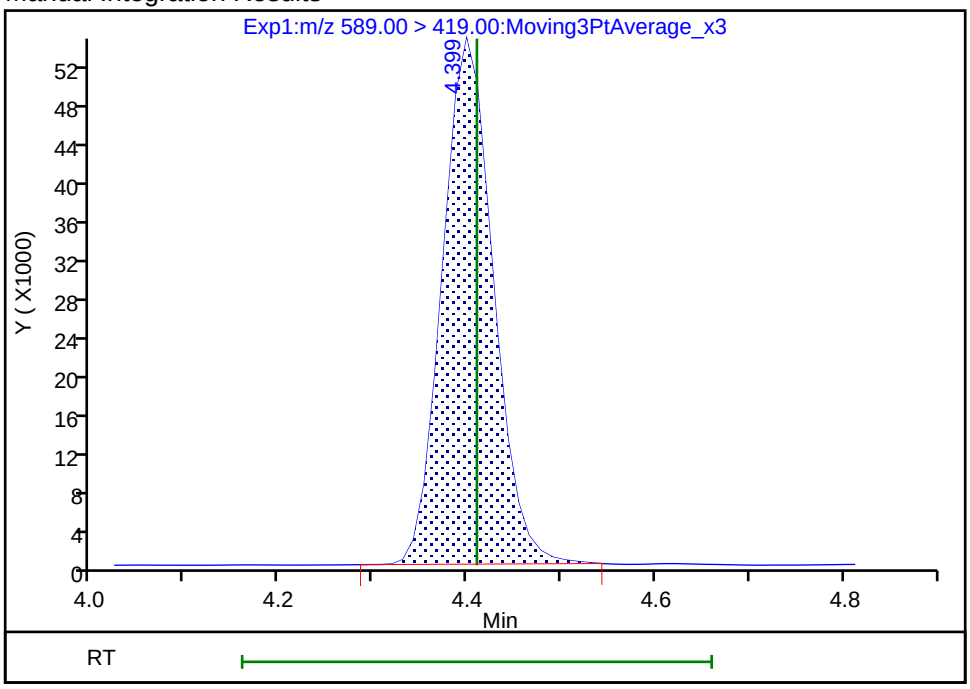
Processing Integration Results

RT: 4.40
Area: 204963
Amount: 1.161993
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 204125
Amount: 1.169875
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:49:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

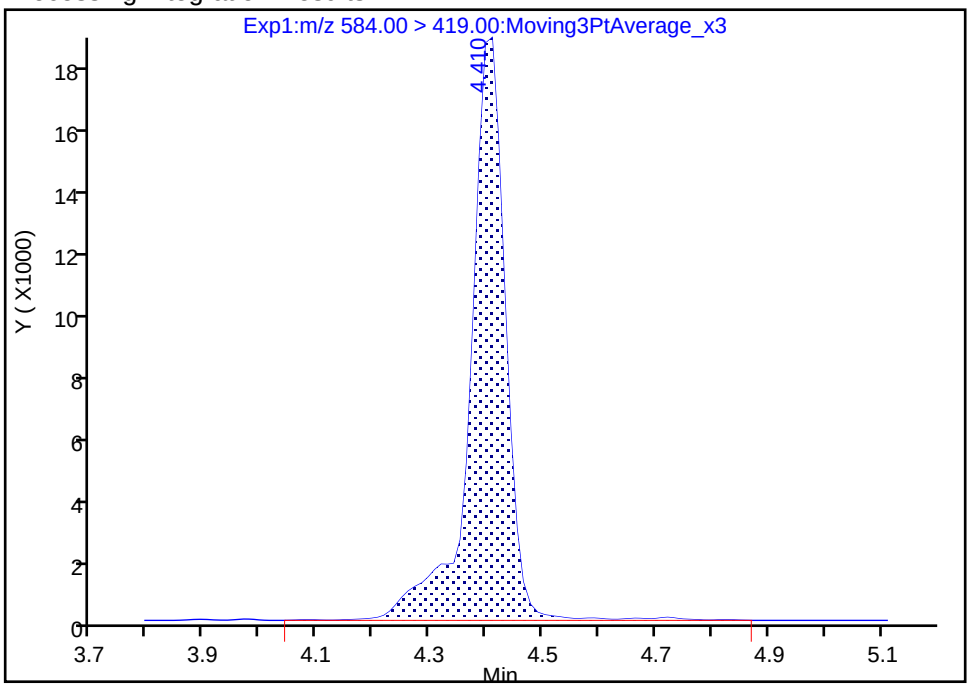
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

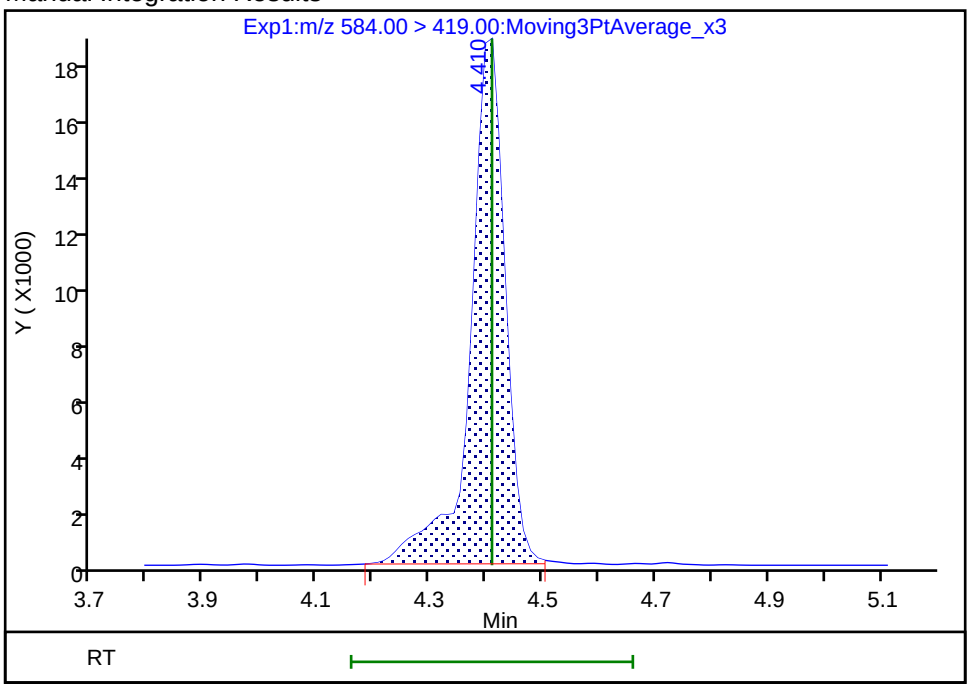
Processing Integration Results

RT: 4.41
Area: 81904
Amount: 0.562516
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 79779
Amount: 0.520760
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:49:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

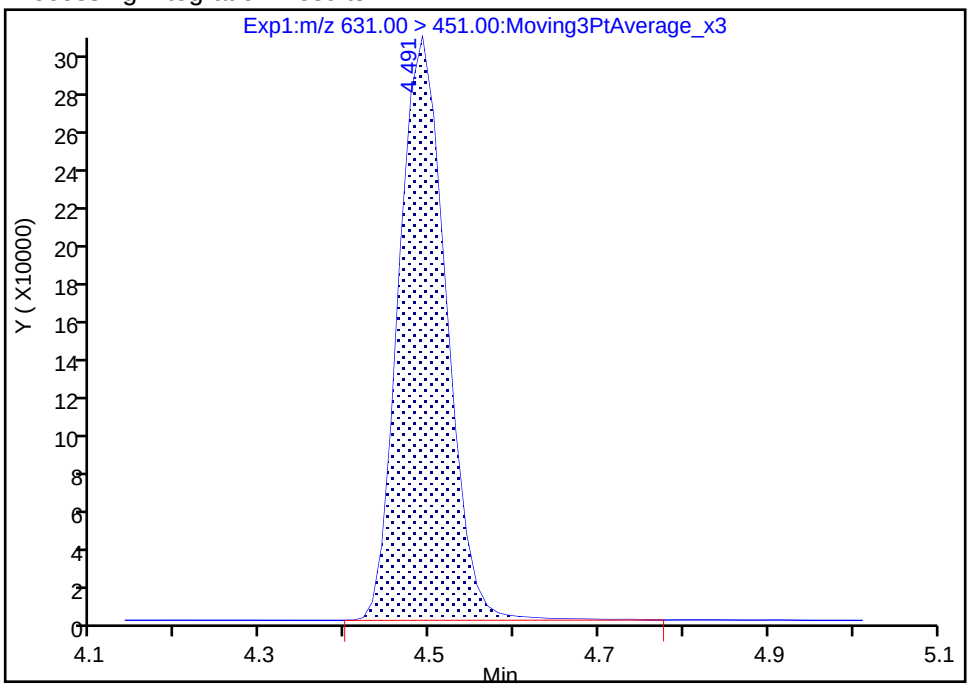
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

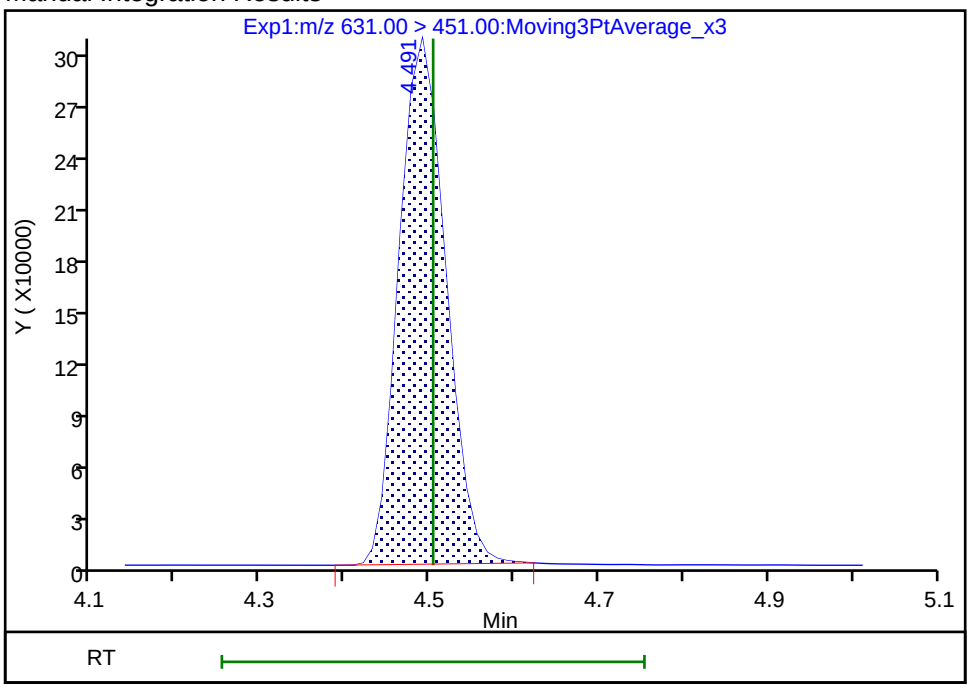
Processing Integration Results

RT: 4.49
Area: 1177183
Amount: 0.506068
Amount Units: ng/ml



Manual Integration Results

RT: 4.49
Area: 1164314
Amount: 0.511084
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:49:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

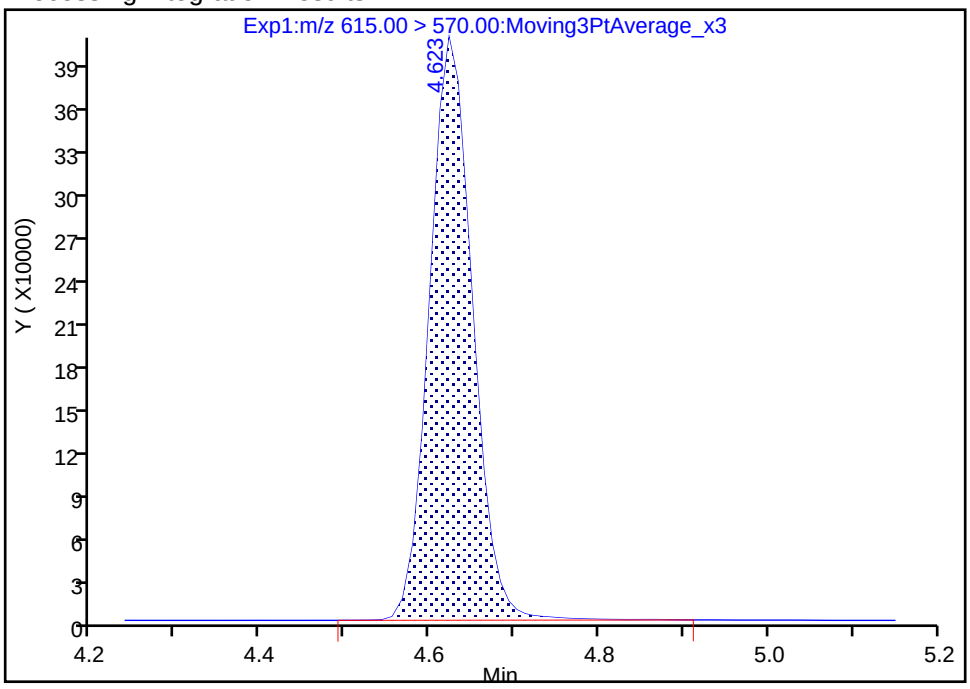
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 36 13C2 PFDoA, CAS: STL00998

Signal: 1

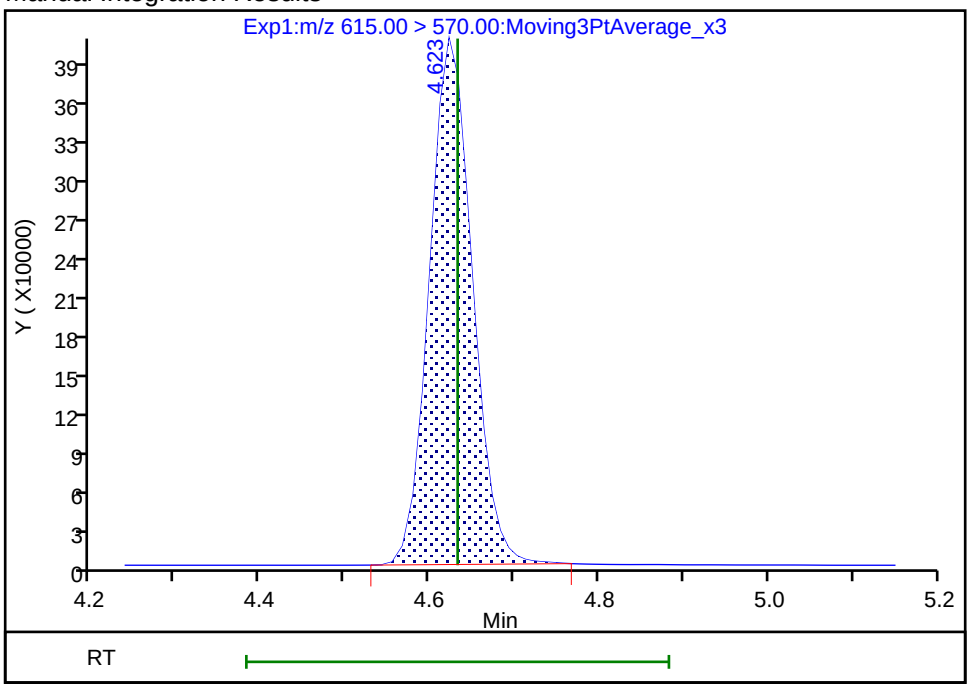
Processing Integration Results

RT: 4.62
Area: 1439886
Amount: 1.257225
Amount Units: ng/ml



Manual Integration Results

RT: 4.62
Area: 1428905
Amount: 1.238283
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:50:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

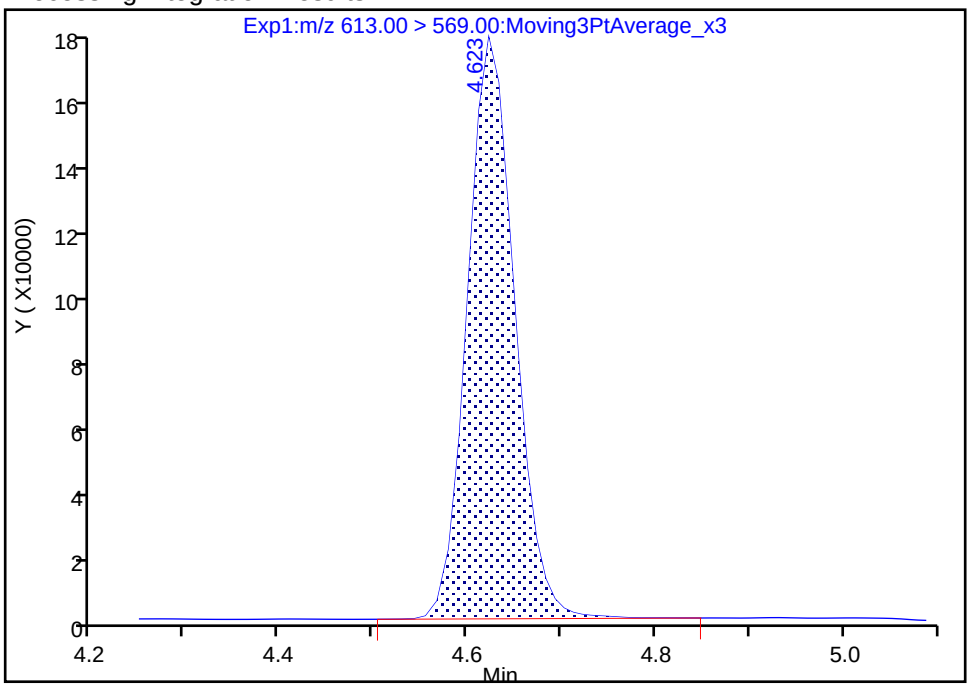
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

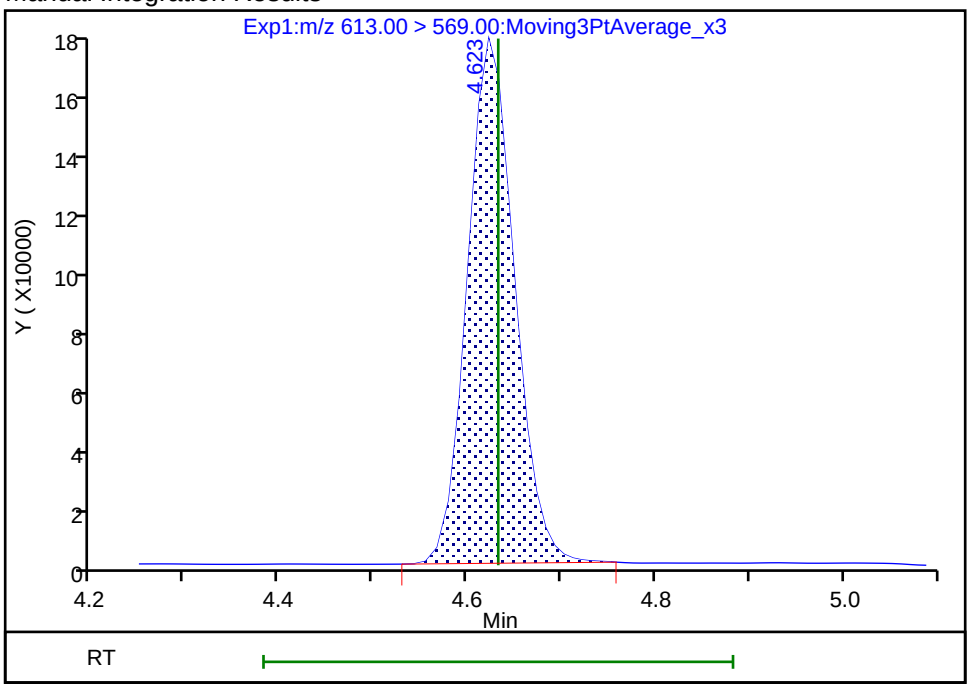
Processing Integration Results

RT: 4.62
Area: 611950
Amount: 0.523534
Amount Units: ng/ml



Manual Integration Results

RT: 4.62
Area: 608340
Amount: 0.515990
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:50:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

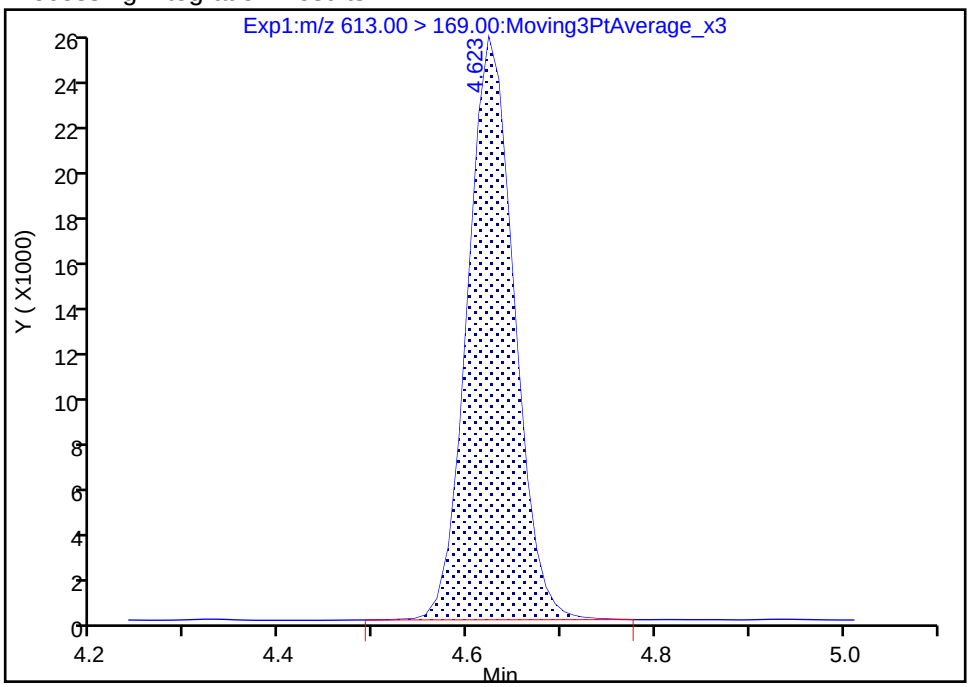
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

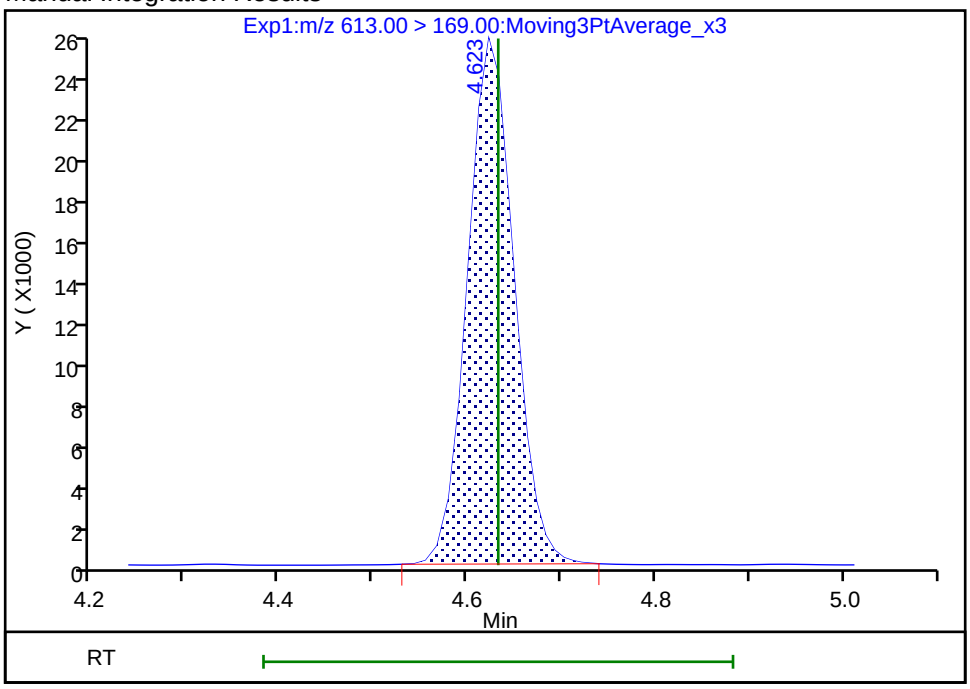
Processing Integration Results

RT: 4.62
Area: 87597
Amount: 0.523534
Amount Units: ng/ml



Manual Integration Results

RT: 4.62
Area: 87106
Amount: 0.515990
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:50:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

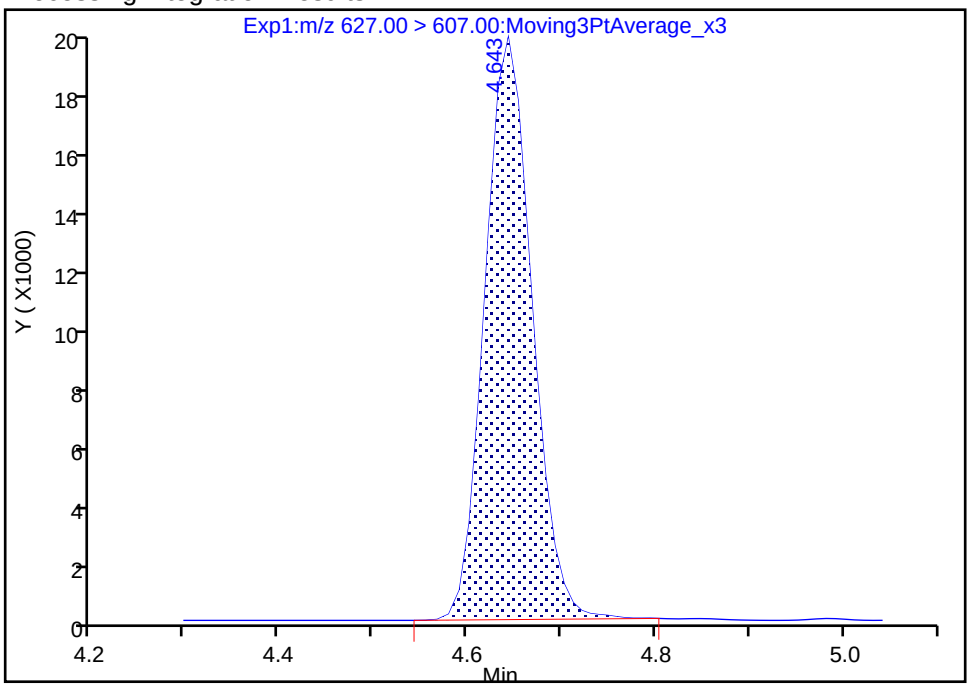
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

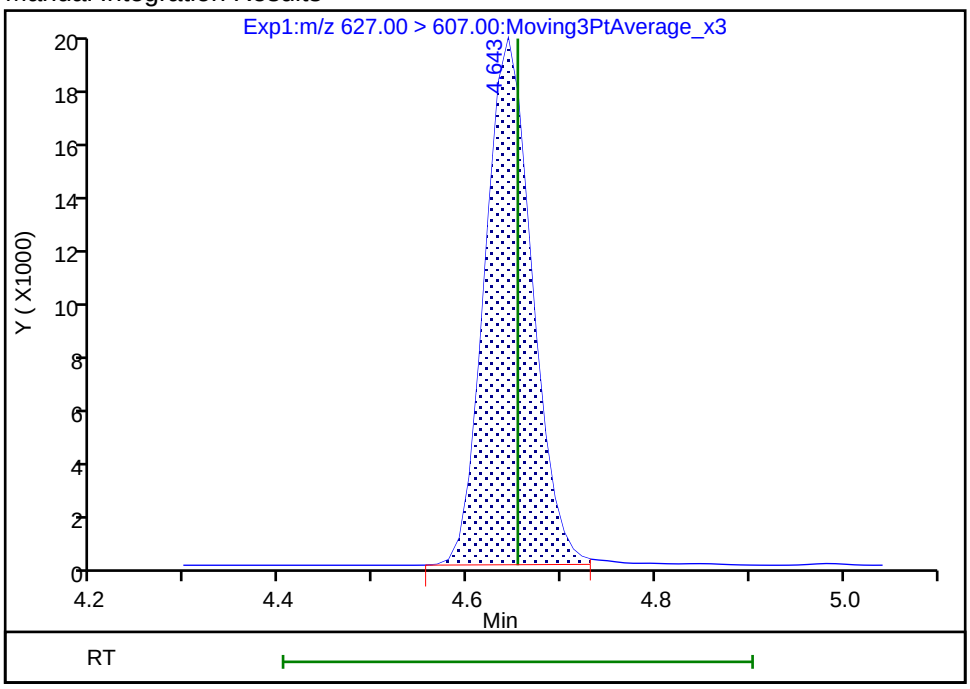
Processing Integration Results

RT: 4.64
Area: 68298
Amount: 0.518742
Amount Units: ng/ml



Manual Integration Results

RT: 4.64
Area: 68102
Amount: 0.512599
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:50:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

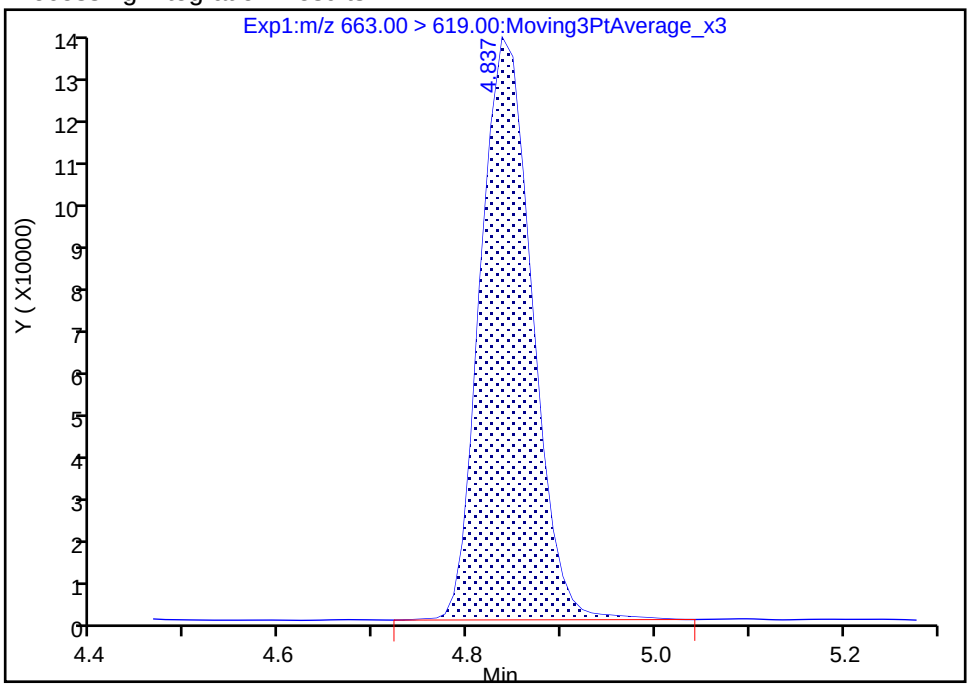
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

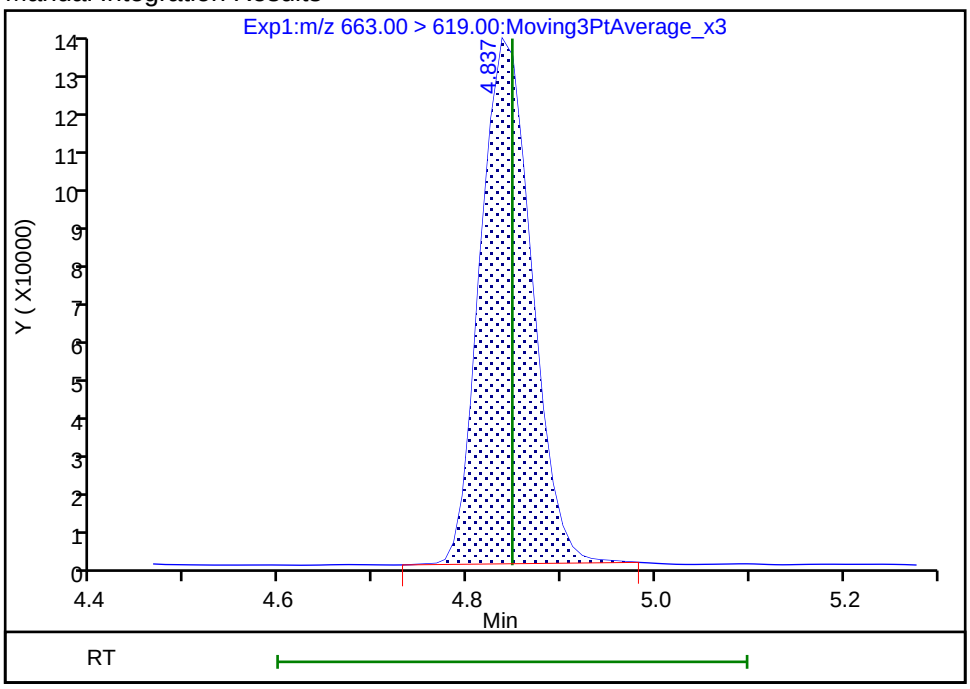
Processing Integration Results

RT: 4.84
Area: 514611
Amount: 0.521814
Amount Units: ng/ml



Manual Integration Results

RT: 4.84
Area: 509549
Amount: 0.507453
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:50:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

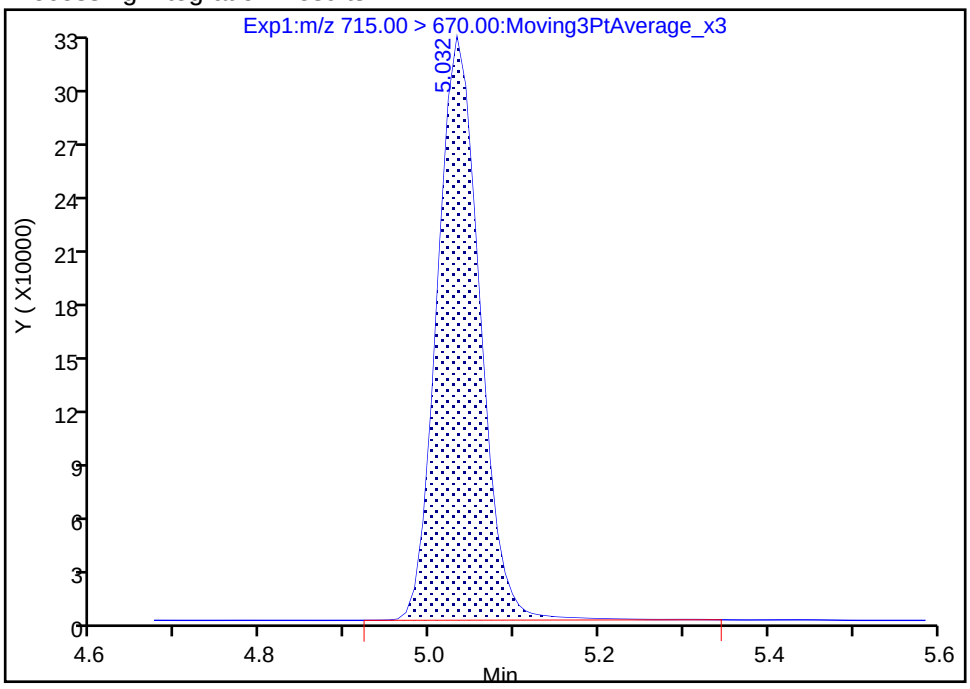
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

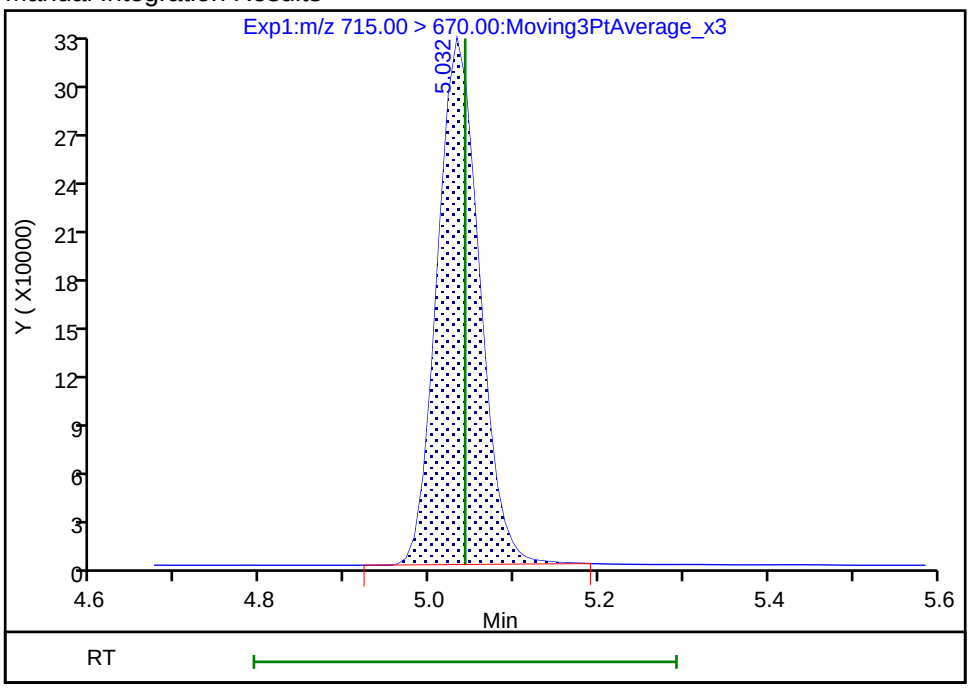
Processing Integration Results

RT: 5.03
Area: 1138154
Amount: 1.285930
Amount Units: ng/ml



Manual Integration Results

RT: 5.03
Area: 1129167
Amount: 1.197278
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:50:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

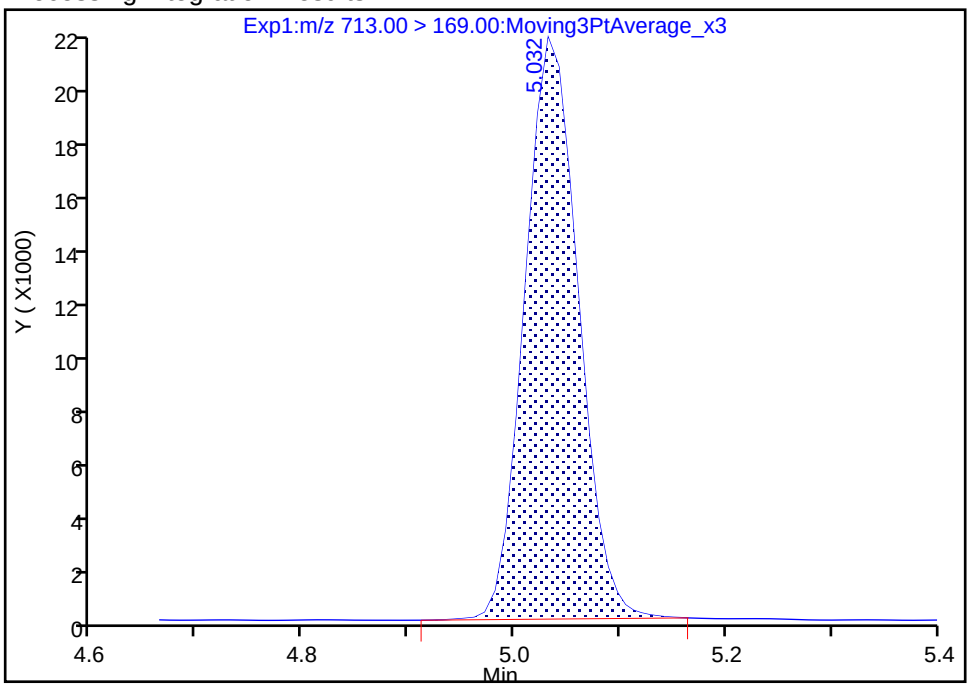
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d				
Injection Date:	05-May-2022 15:29:57	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

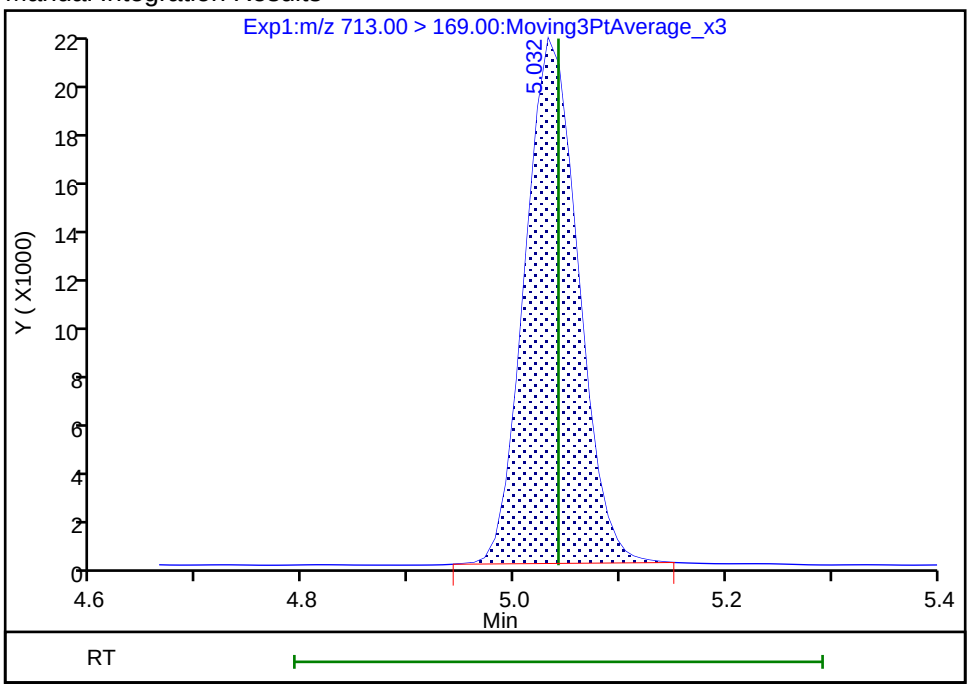
Processing Integration Results

RT: 5.03
Area: 74725
Amount: 0.525411
Amount Units: ng/ml



Manual Integration Results

RT: 5.03
Area: 74395
Amount: 0.532993
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:50:46

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

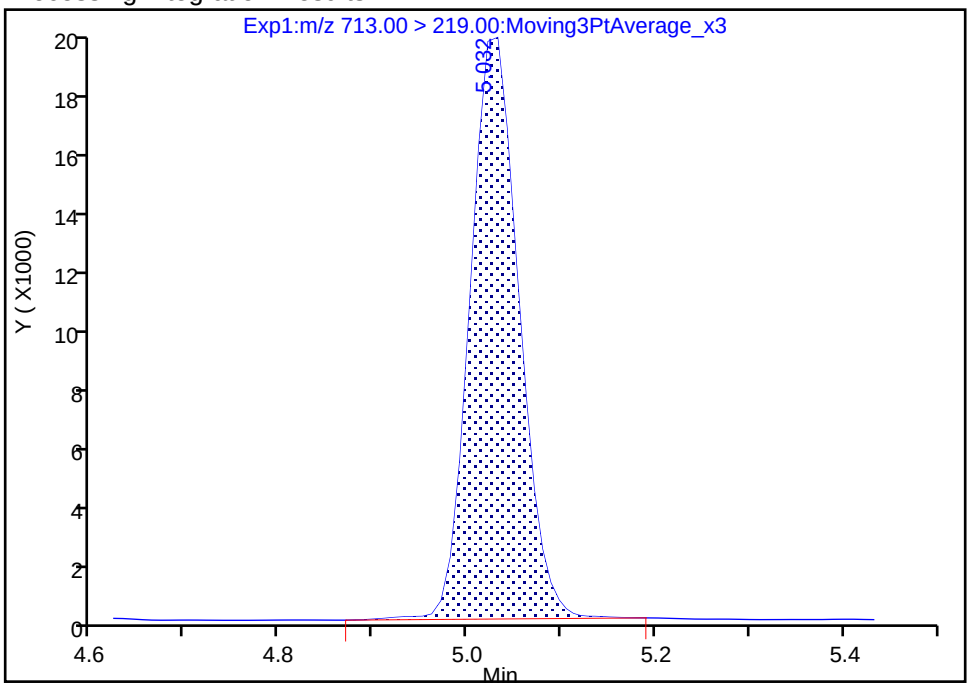
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

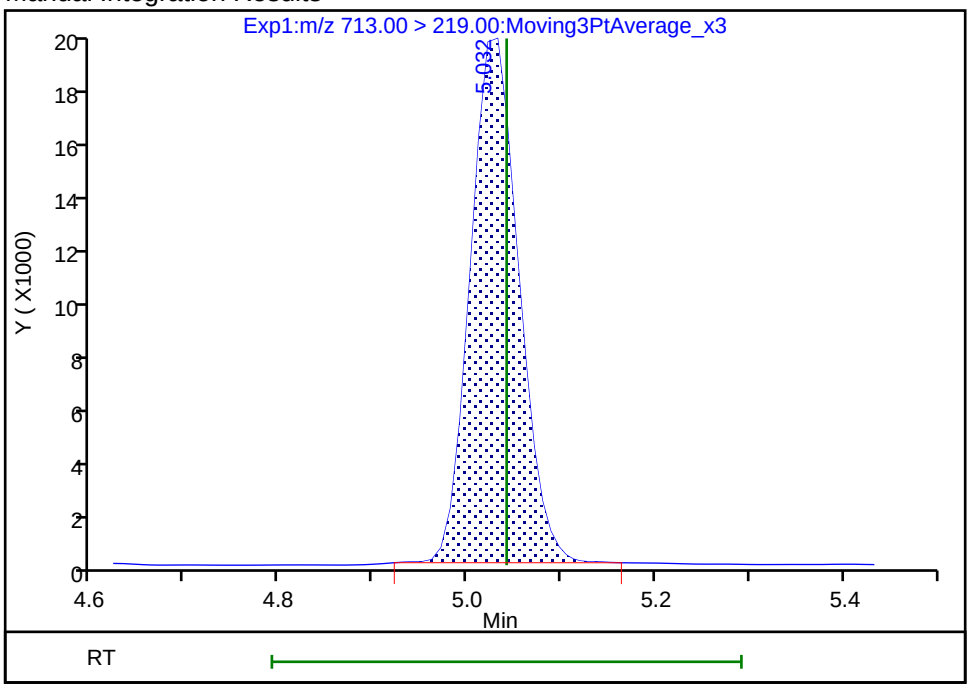
Processing Integration Results

RT: 5.03
Area: 71208
Amount: 0.525411
Amount Units: ng/ml



Manual Integration Results

RT: 5.03
Area: 70459
Amount: 0.532993
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:50:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

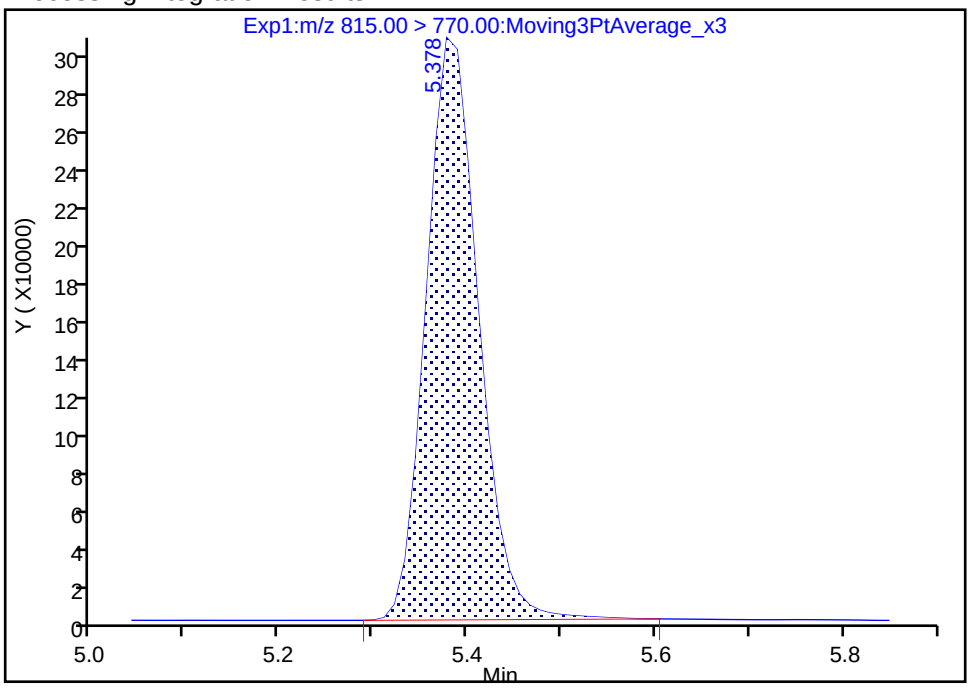
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

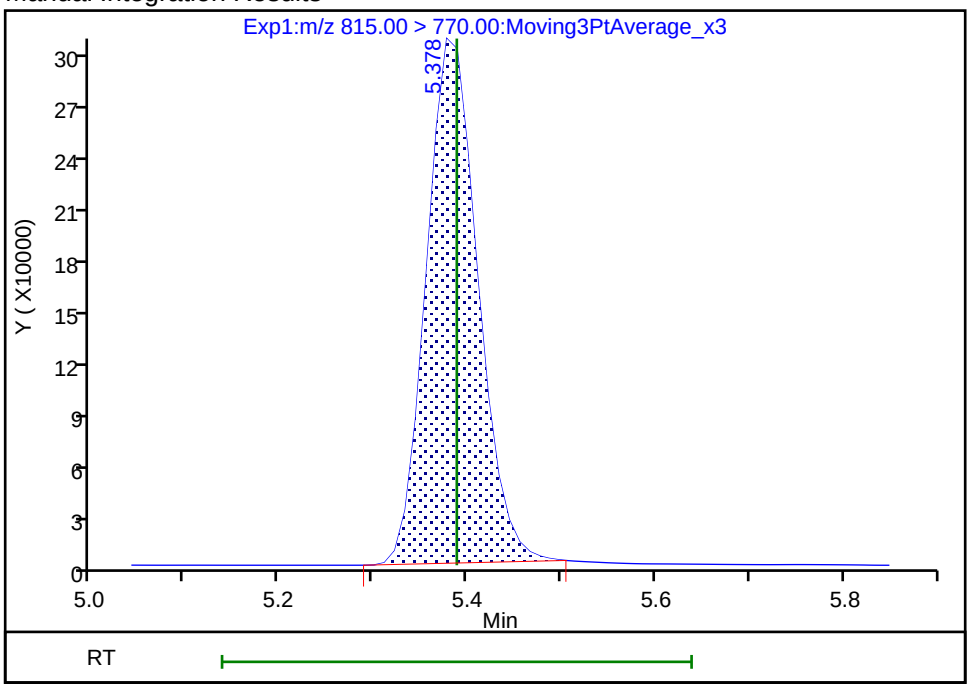
Processing Integration Results

RT: 5.38
Area: 1155980
Amount: 1.216391
Amount Units: ng/ml



Manual Integration Results

RT: 5.38
Area: 1136803
Amount: 1.162852
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:51:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

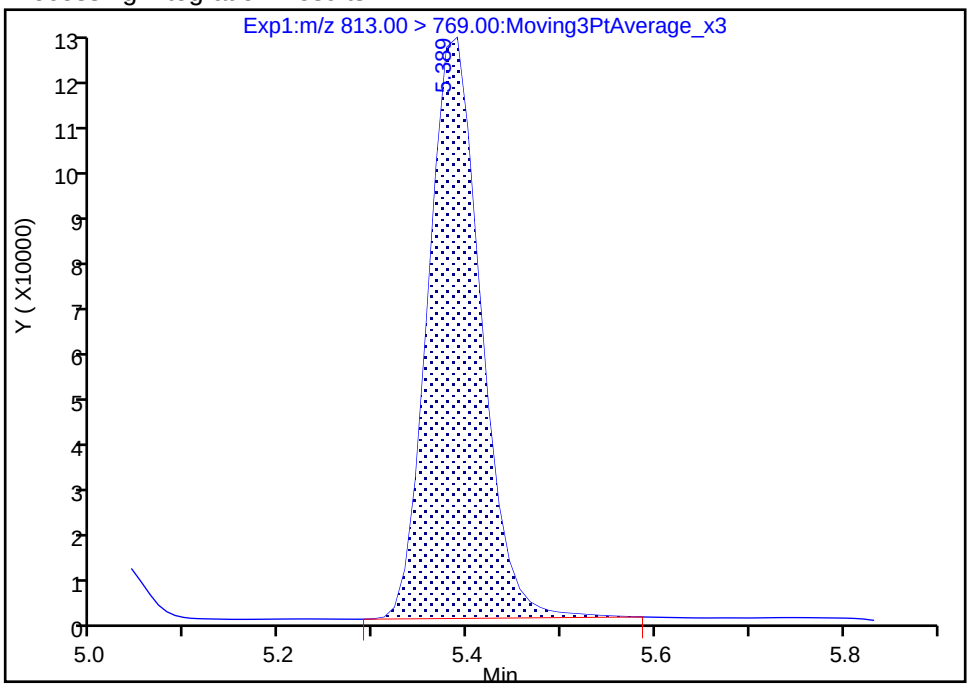
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

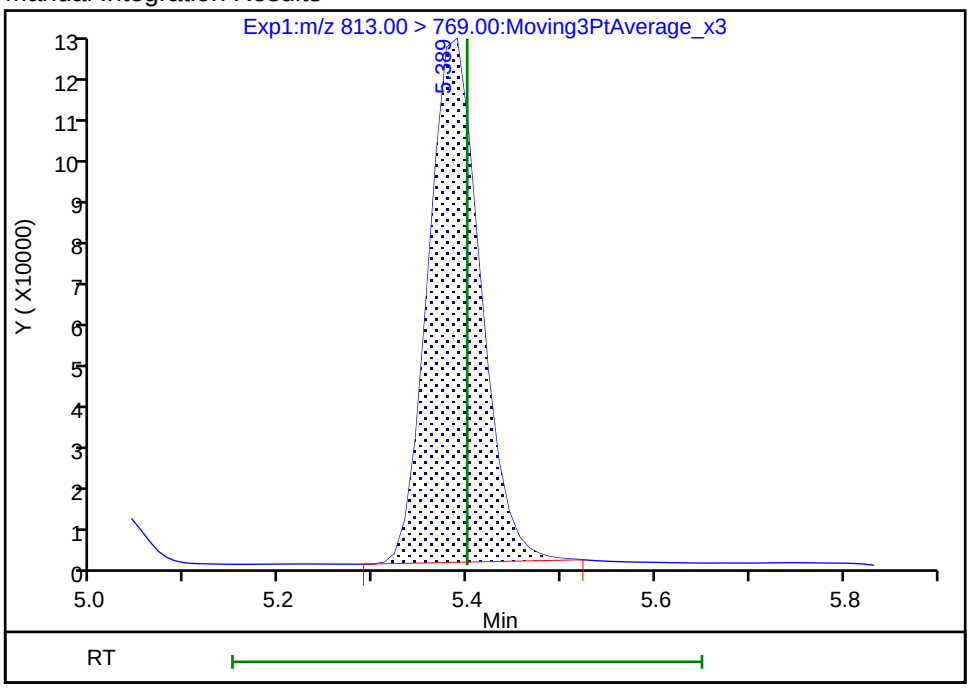
Processing Integration Results

RT: 5.39
Area: 468074
Amount: 0.540009
Amount Units: ng/ml



Manual Integration Results

RT: 5.39
Area: 462568
Amount: 0.559891
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:50:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

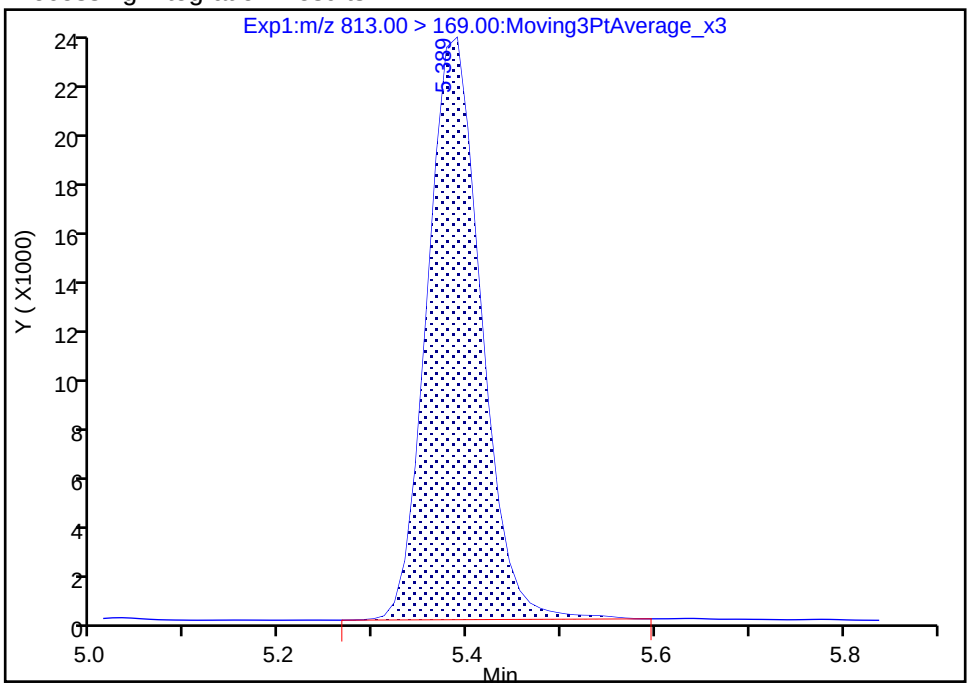
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

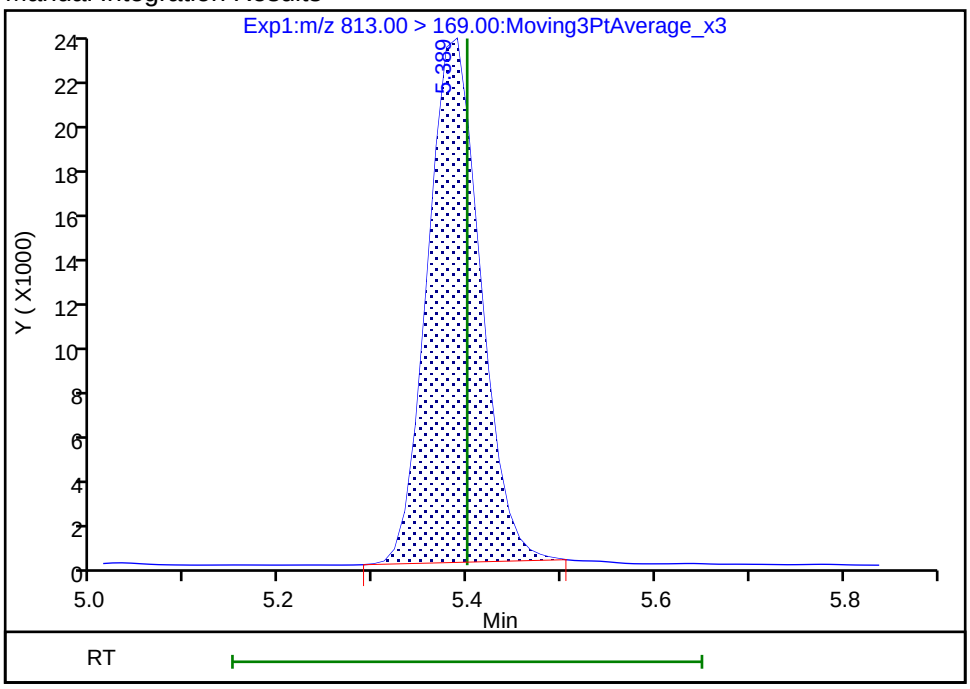
Processing Integration Results

RT: 5.39
Area: 94905
Amount: 0.540009
Amount Units: ng/ml



Manual Integration Results

RT: 5.39
Area: 93020
Amount: 0.559891
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:50:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

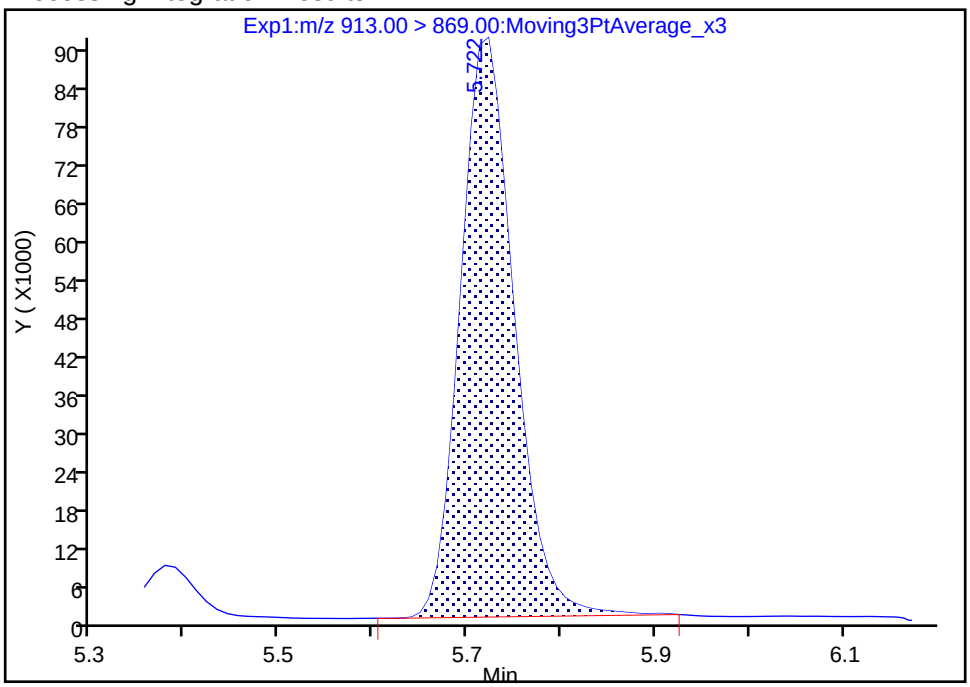
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL07.d
Injection Date: 05-May-2022 15:29:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

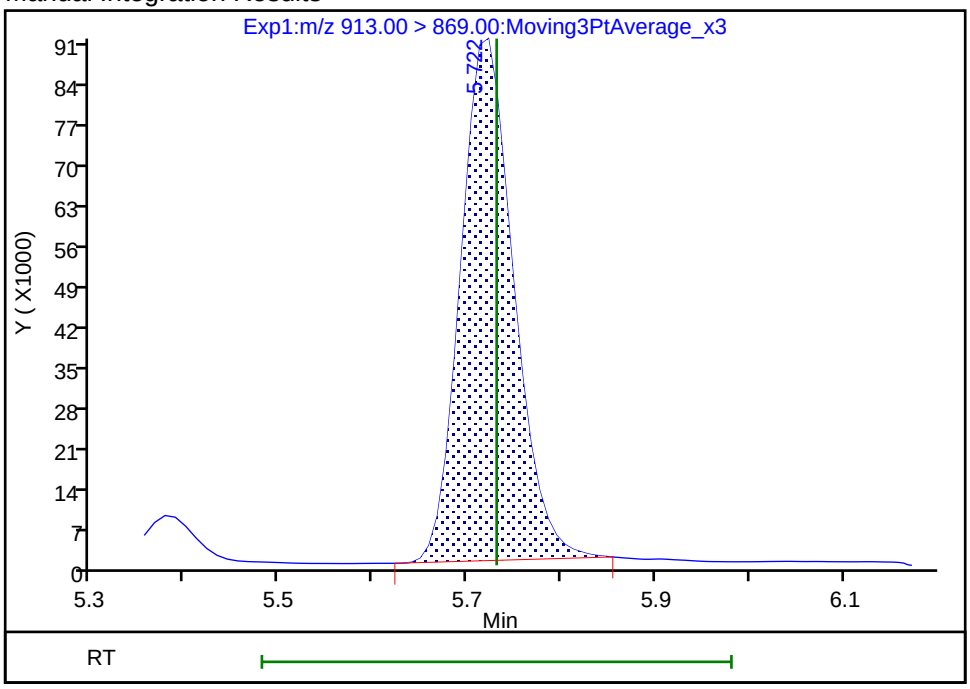
Processing Integration Results

RT: 5.72
Area: 363622
Amount: 0.547946
Amount Units: ng/ml



Manual Integration Results

RT: 5.72
Area: 357707
Amount: 0.564610
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:51:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 05-May-2022 15:38:07 ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ICIS
Misc. Info.: 200-0050718-008 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 05-May-2022 16:22:11 Calib Date: 05-May-2022 15:54:29
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1631

First Level Reviewer: deannd Date: 05-May-2022 15:59:55
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.102	2.102	0.0	1.000	1271152	0.9466		94.7	302	M
D 1 13C4 PFBA										M
217.00 > 172.00	2.102	2.102	0.0	0.601	1778646	1.28		102	9802	M
D 3 13C5 PFPeA										M
267.90 > 223.00	2.413	2.413	0.0	0.690	1342973	1.26		101	2552	M
4 Perfluoropentanoic acid										
262.90 > 219.00	2.413	2.413	0.0	1.000	1064917	0.9726		97.3	58.2	
D 47 13C3 PFBS										
301.90 > 80.00	2.427	2.427	0.0	0.693	1818552	1.18		101	206126	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.440	2.440	0.0	1.006	1409337	0.8265	Target=2.18	93.5	1627	M
298.90 > 99.00	2.440	2.440	0.0	1.006	656851		2.15(1.09-3.27)	93.5	411	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.738	2.738	0.0	1.000	288222	0.8869		95.0	2161	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.738	2.738	0.0	0.782	151117	1.18		101	168	M
D 7 13C2 PFHxA										M
315.00 > 270.00	2.774	2.774	0.0	0.793	1429355	1.31		105	2211	M
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.774	2.774	0.0	1.000	1115338	0.9037	Target=12.96	90.4	150	M
313.00 > 119.00	2.774	2.774	0.0	1.000	88624		12.59(6.48-19.44)	90.4	75.5	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.774	2.774	0.0	0.886	1332190	0.8624	Target=3.01	91.9	1237	M
349.00 > 99.00	2.774	2.774	0.0	0.886	450026		2.96(1.50-4.51)	91.9	672	M
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.884	2.884	0.0	0.824	232730	1.25		100.0	1376	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.884	2.884	0.0	1.000	192074	0.9454		94.5	1245	M
D 11 18O2 PFHxS										M
403.00 > 84.00	3.132	3.132	0.0	0.895	1479084	1.23		104	1629	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.132	3.132	0.0	1.000	1177548	0.8518	Target=3.51	93.6	1010	M
399.00 > 99.00	3.132	3.132	0.0	1.000	333682		3.53(1.76-5.27)	93.6	341	M
D 9 13C4 PFHpA										M
367.00 > 322.00	3.143	3.143	0.0	0.898	1463358	1.25		99.7	1521	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.143	3.143	0.0	1.000	1204223	1.02	Target=3.71	102	271	M
363.00 > 169.00	3.143	3.143	0.0	1.000	321500		3.75(1.86-5.57)	102	307	M
77 DONA										M
377.00 > 251.00	3.176	3.176	0.0	0.833	2867935	0.9011	Target=2.68	95.7	1699	M
377.00 > 85.00	3.176	3.176	0.0	0.833	1035653		2.77(1.34-4.03)	95.7	1116	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.482	3.482	0.0	0.914	1061112	0.8863	Target=5.10	93.1	1567	M
449.00 > 99.00	3.482	3.482	0.0	0.914	216485		4.90(2.55-7.66)	93.1	823	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.482	3.482	0.0	1.000	298141	0.9306		98.2	346	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.482	3.482	0.0	0.995	241054	1.22		103	575	
D 14 13C4 PFOA										M
417.00 > 372.00	3.491	3.491	0.0	0.998	1507252	1.22		97.7	1359	M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.500	3.500	0.0	1.002	1331372	0.9859	Target=2.75	98.6	159	M
413.00 > 169.00	3.500	3.500	0.0	1.002	496516		2.68(1.37-4.12)	98.6	654	M
* 62 13C2 PFOA										M
415.00 > 370.00	3.500	3.500	0.0		1638661	1.25			2785	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.812	3.812	0.0	1.000	902663	0.8486	Target=4.70	91.4	737	M
499.00 > 99.00	3.812	3.812	0.0	1.000	201884		4.47(2.35-7.05)	91.4	712	M
D 18 13C4 PFOS										M
503.00 > 80.00	3.812	3.812	0.0	1.089	1190325	1.26		105	2304	M
D 19 13C5 PFNA										
468.00 > 423.00	3.834	3.834	0.0	1.095	1729599	1.29		103	4062	
20 Perfluorononanoic acid										
463.00 > 419.00	3.834	3.834	0.0	1.000	1218555	0.9105	Target=7.93	91.1	165	
463.00 > 169.00	3.834	3.834	0.0	1.000	157483		7.74(3.97-11.90)	91.1	899	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.978	3.978	0.0	1.043	1536250	0.8740		93.8	2311	M
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.104	4.104	0.0	1.077	701542	0.8708	Target=2.53	90.7	1773	M
549.00 > 99.00	4.104	4.104	0.0	1.077	282227		2.49(1.26-3.79)	90.7	935	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.127	4.127	0.0	0.997	1389045	0.9561	Target=9.72	95.6	571	M
513.00 > 169.00	4.138	4.127	0.011	1.000	149230		9.31(4.86-14.57)	95.6	630	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										M
515.00 > 470.00	4.138	4.138	0.0	1.182	1704667	1.32		106	2302	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.138	4.138	0.0	1.000	250441	0.9011		94.1	1480	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.138	4.138	0.0	1.182	299016	1.26		106	838	
D 21 13C8 FOSA										M
506.00 > 78.00	4.196	4.196	0.0	1.199	1815194	1.28		102	2427	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.207	4.207	0.0	1.003	1408577	0.9559		95.6	1672	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.273	4.273	0.0	1.221	212716	1.24		99.3	1026	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.273	4.273	0.0	1.000	160272	1.04		104	398	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.376	4.376	0.0	1.148	562978	0.9164	Target=2.47	95.1	1460	M
599.00 > 99.00	4.365	4.376	-0.011	1.145	219826		2.56(1.23-3.70)	95.1	1289	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.399	4.399	0.0	1.000	1069785	0.9787	Target=9.24	97.9	595	M
563.00 > 169.00	4.399	4.399	0.0	1.000	113729		9.41(4.62-13.87)	97.9	1179	M
D 30 13C2 PFUnA										M
565.00 > 520.00	4.399	4.399	0.0	1.257	1325739	1.28		102	1700	M
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.410	4.410	0.0	1.260	215694	1.29		103	993	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.410	4.410	0.0	1.000	152563	0.9424		94.2	839	M
66 11-Chloroeicosafluoro-3-oxaundec										M
631.00 > 451.00	4.504	4.504	0.0	1.181	2162261	0.8892		94.4	2233	M
D 36 13C2 PFDoA										M
615.00 > 570.00	4.633	4.633	0.0	1.324	1385963	1.25		100	1696	M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.633	4.633	0.0	1.000	1096003	0.9584	Target=7.29	95.8	157	M
613.00 > 169.00	4.633	4.633	0.0	1.000	157650		6.95(3.64-10.93)	95.8	1143	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.653	4.653	0.0	1.124	129499	0.9370		97.2	841	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.812	4.812	0.0	1.262	257916	0.9239	Target=0.54	95.4	1542	M
699.00 > 99.00	4.812	4.812	0.0	1.262	469983		0.55(0.27-0.81)	95.4	1504	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.848	4.848	0.0	1.046	931092	0.9560	Target=4.74	95.6	168	M
663.00 > 169.00	4.848	4.848	0.0	1.046	209562		4.44(2.37-7.10)	95.6	1025	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.042	5.042	0.0	1.000	135318	0.9755	Target=0.99	97.5	890	M
713.00 > 219.00	5.032	5.042	-0.010	0.998	141277		0.96(0.49-1.48)	97.5	1022	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.042	5.042	0.0	1.440	1122215	1.24		99.2	1964	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.388	5.388	0.0	1.540	1196433	1.28		102	1278	M
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.400	5.400	0.0	1.002	859211	1.00	Target=4.87	100	175	M
813.00 > 169.00	5.388	5.400	-0.012	1.000	175195		4.90(2.43-7.30)	100	869	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.731	5.731	0.0	1.064	649655	0.9743	Target=4.95	97.4	141	M
913.00 > 169.00	5.731	5.731	0.0	1.064	135072		4.81(2.47-7.42)	97.4	408	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

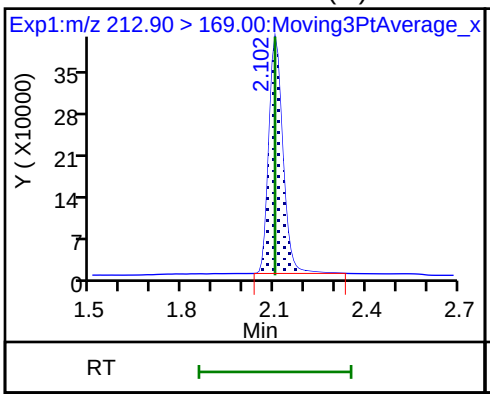
PFAS32NCIC4_00030 Amount Added: 100.00 Units: uL

Report Date: 05-May-2022 16:22:12 Chrom Revision: 2.3 02-May-2022 18:31:28

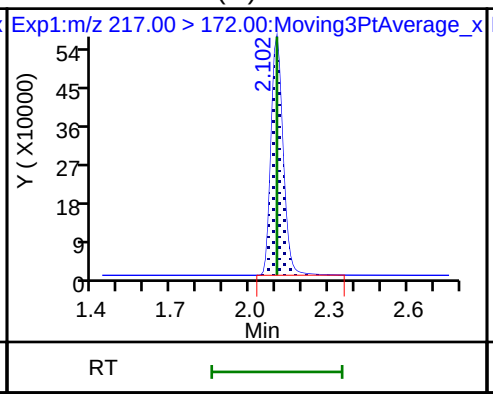
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL

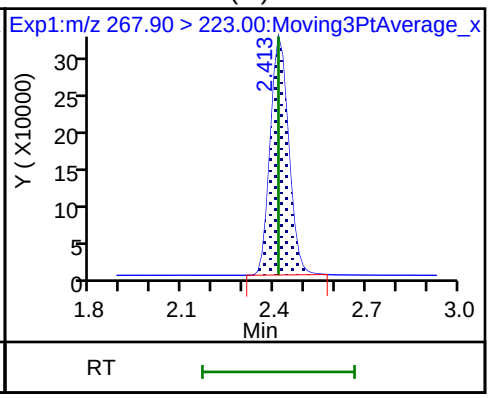
2 Perfluorobutanoic acid (M)



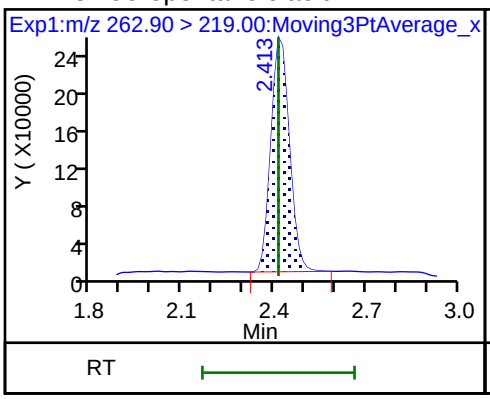
D 1 13C4 PFBA (M)



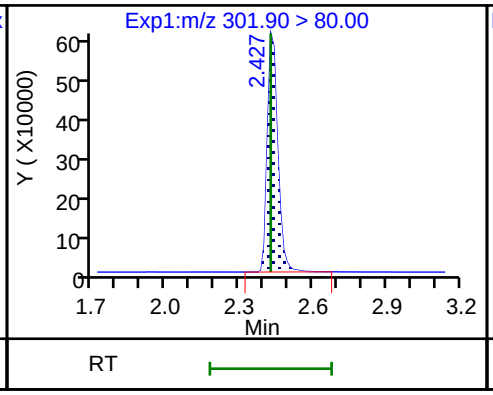
D 3 13C5 PFPeA (M)



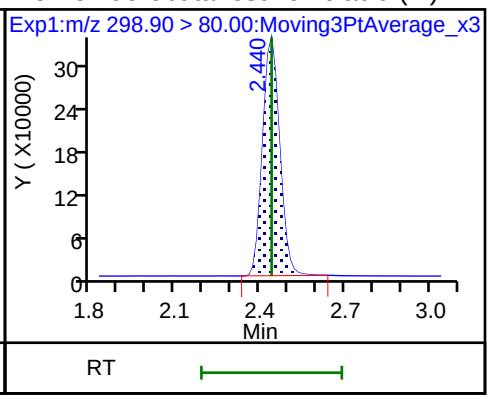
4 Perfluoropentanoic acid



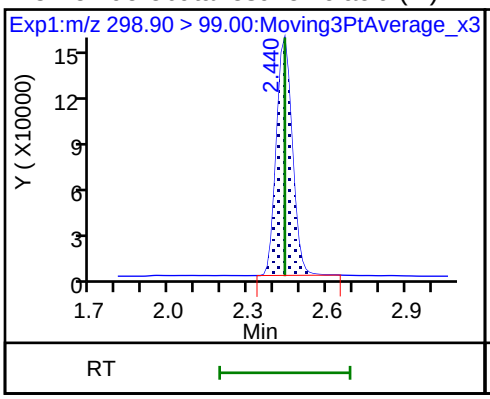
D 47 13C3 PFBS



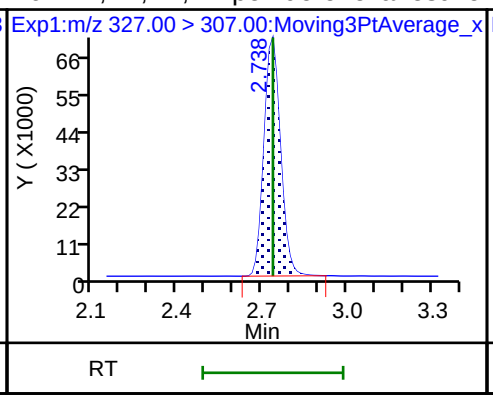
5 Perfluorobutanesulfonic acid (M)



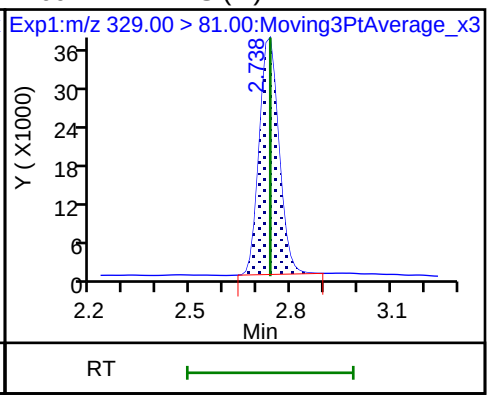
5 Perfluorobutanesulfonic acid (M)



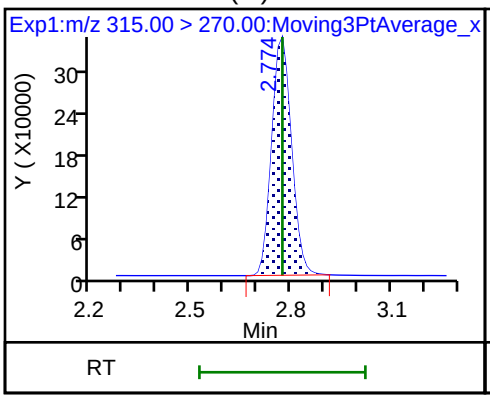
61 1H,1H,2H,2H-perfluorohexanesulfo



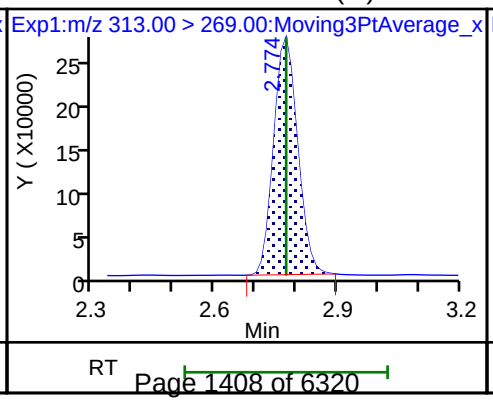
D 60 M2-4:2 FTS (M)



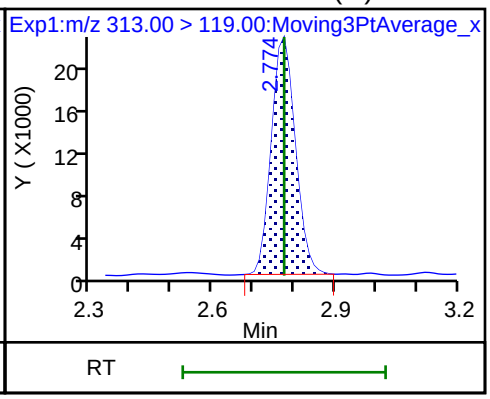
D 7 13C2 PFHxA (M)



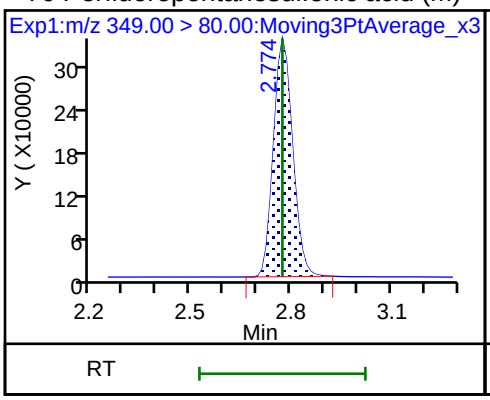
6 Perfluorohexanoic acid (M)



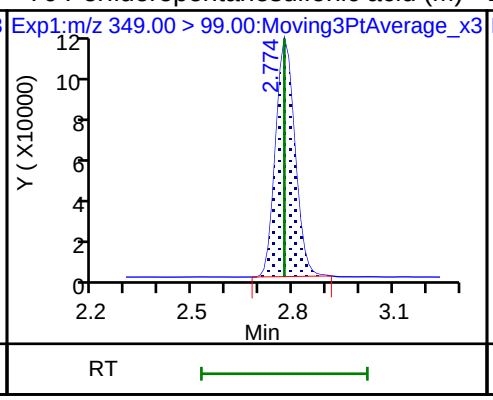
6 Perfluorohexanoic acid (M)



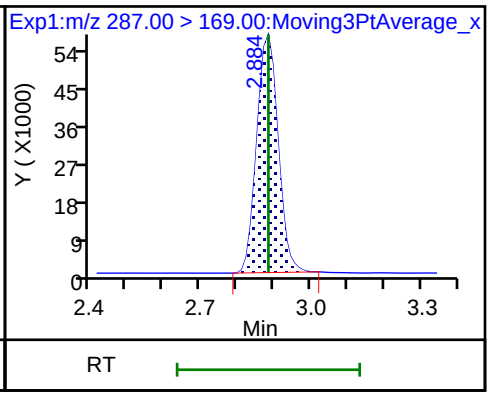
70 Perfluoropentanesulfonic acid (M)



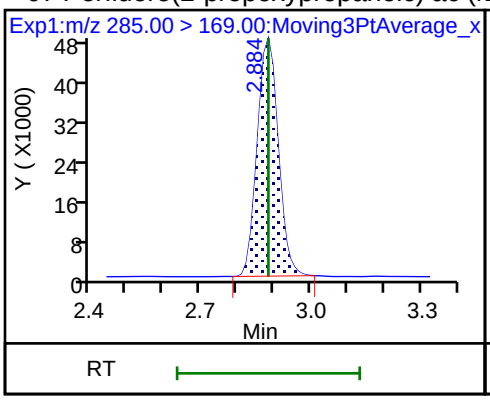
70 Perfluoropentanesulfonic acid (M)



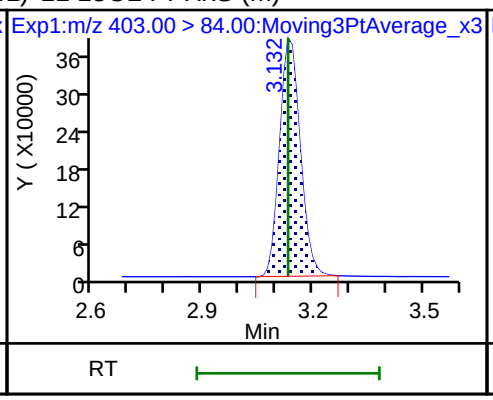
D 64 13C3 HFPO-DA



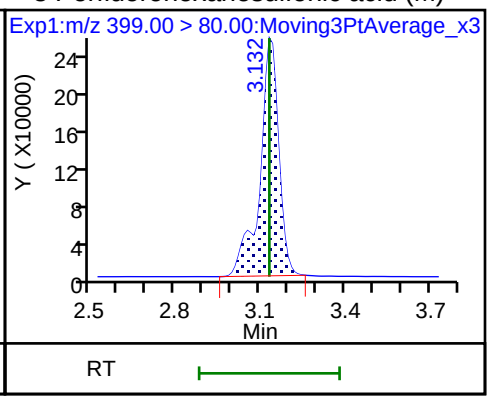
67 Perfluoro(2-propoxypropanoic) ac (M)



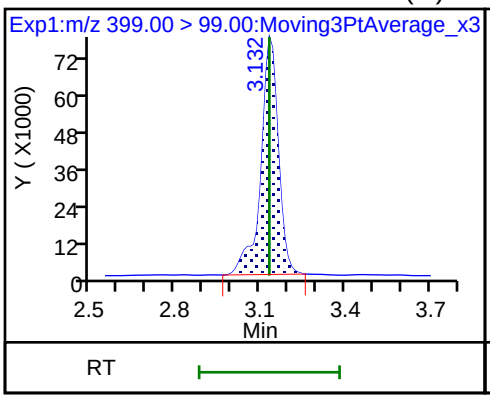
D 11 18O2 PFHxS (M)



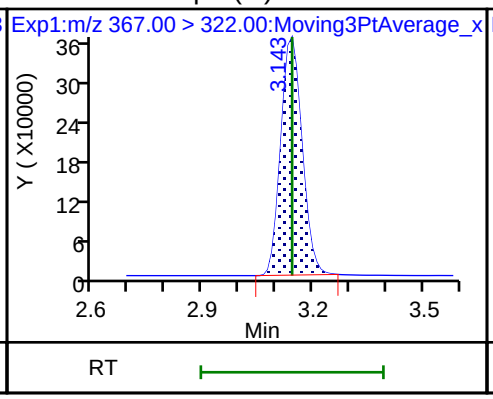
8 Perfluorohexanesulfonic acid (M)



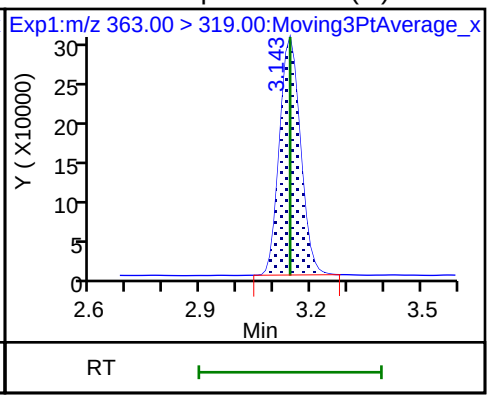
8 Perfluorohexanesulfonic acid (M)



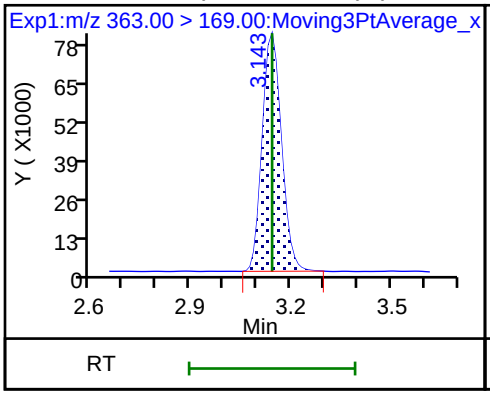
D 9 13C4 PFHpA (M)



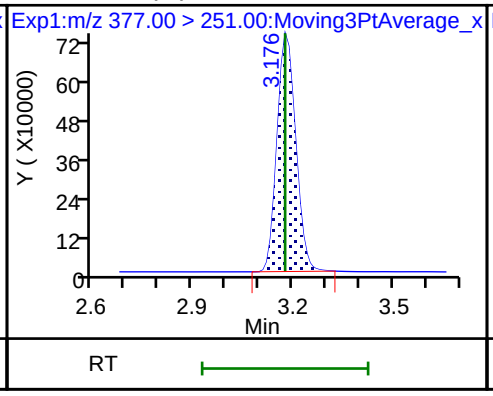
10 Perfluoroheptanoic acid (M)



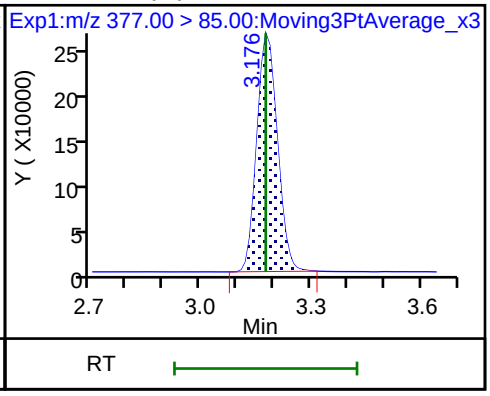
10 Perfluoroheptanoic acid (M)



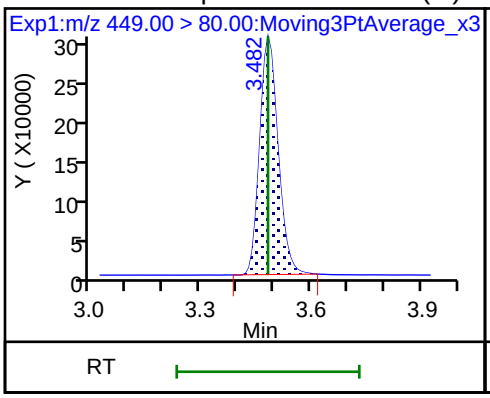
77 DONA (M)



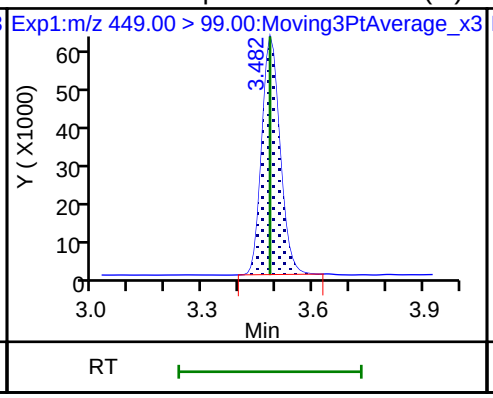
77 DONA (M)



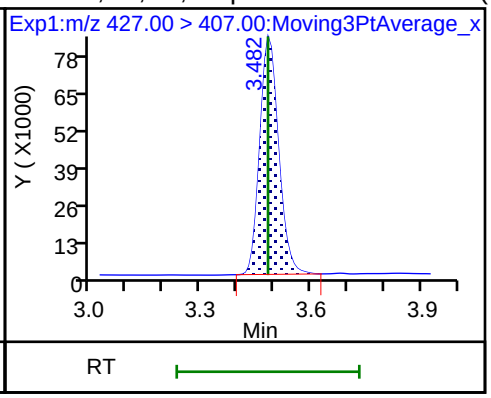
16 Perfluoroheptanesulfonic acid (M)



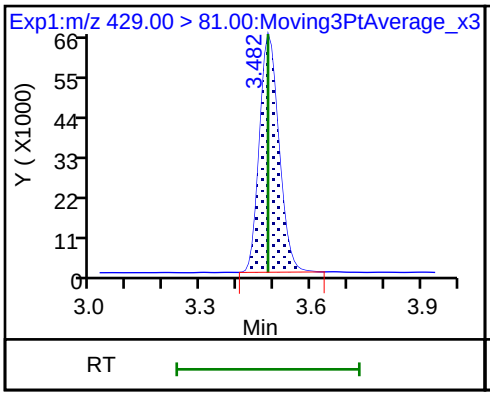
16 Perfluoroheptanesulfonic acid (M)



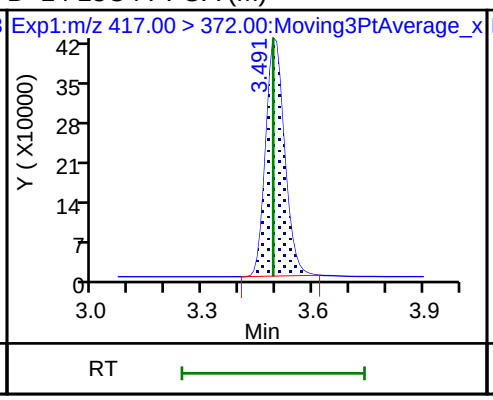
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



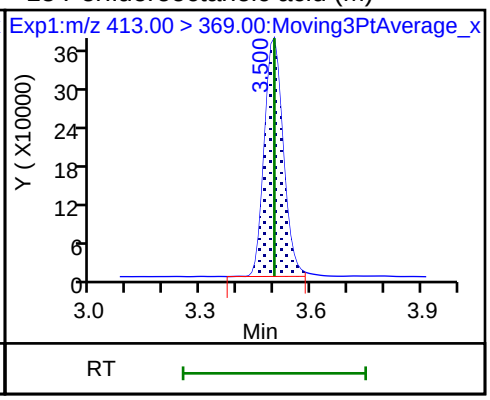
D 12 M2-6:2 FTS



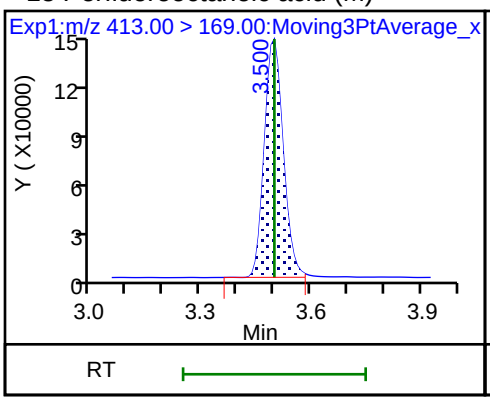
D 14 13C4 PFOA (M)



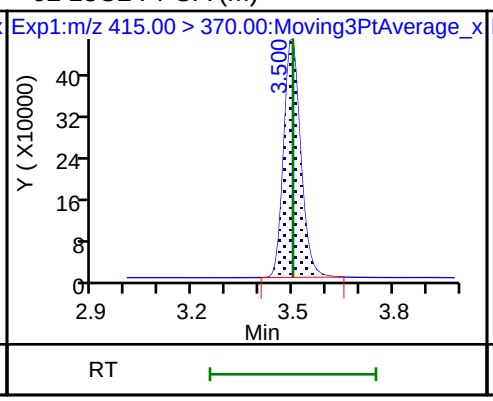
15 Perfluorooctanoic acid (M)



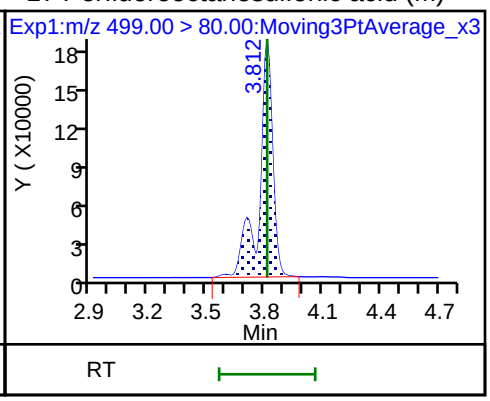
15 Perfluorooctanoic acid (M)



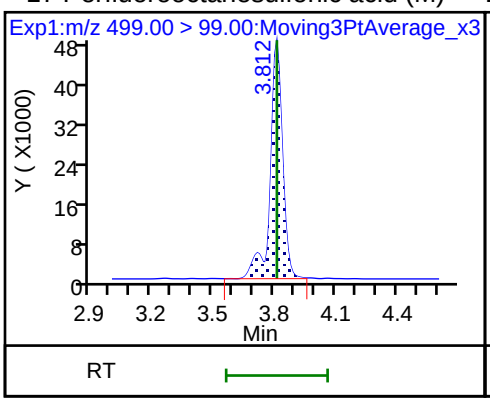
* 62 13C2 PFOA (M)



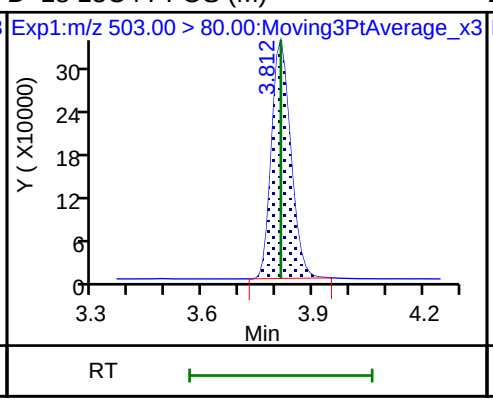
17 Perfluorooctanesulfonic acid (M)



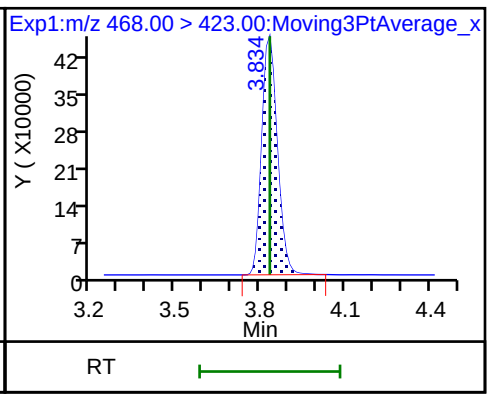
17 Perfluorooctanesulfonic acid (M)



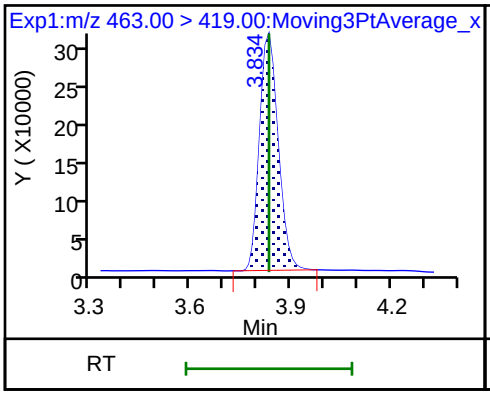
D 18 13C4 PFOS (M)



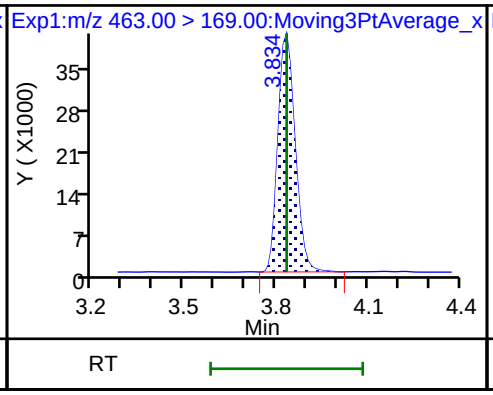
D 19 13C5 PFNA



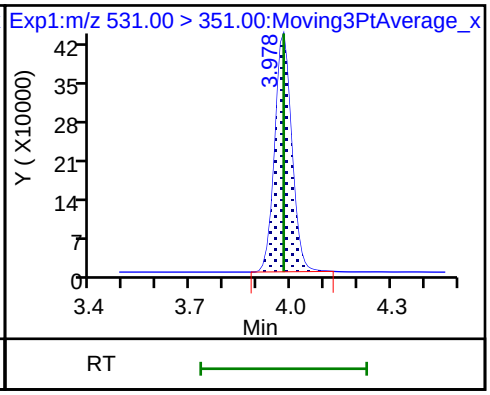
20 Perfluorononanoic acid



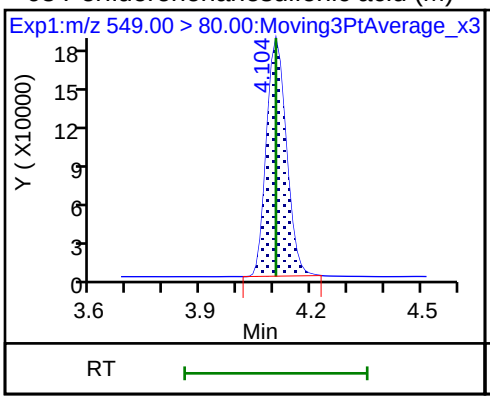
20 Perfluorononanoic acid



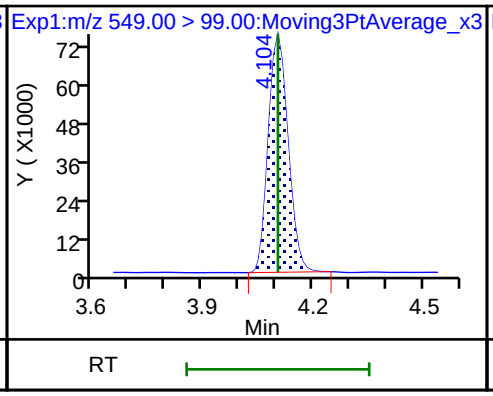
69 9-Chlorohexadecafluoro-3-oxanona (M)



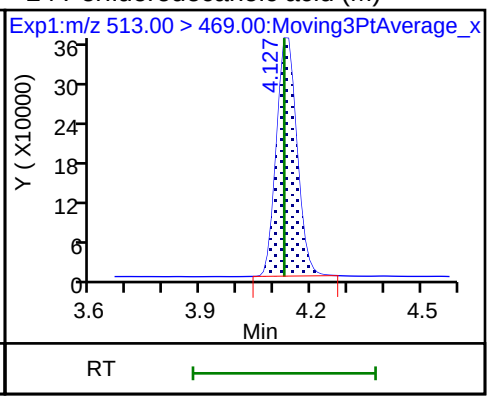
68 Perfluorononanesulfonic acid (M)



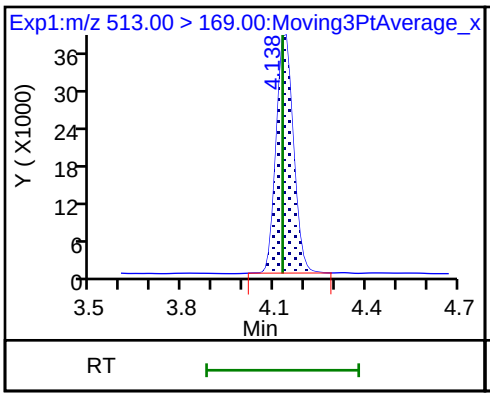
68 Perfluorononanesulfonic acid



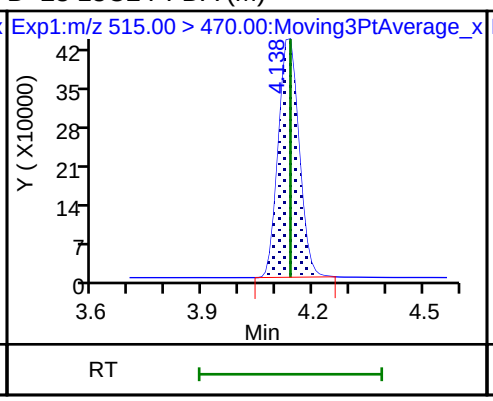
24 Perfluorodecanoic acid (M)



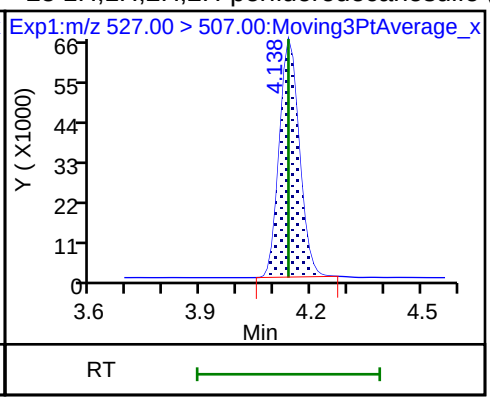
24 Perfluorodecanoic acid



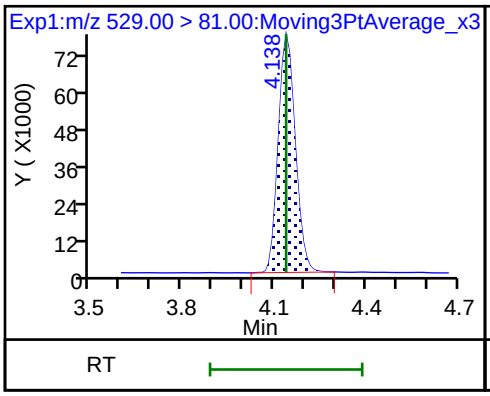
D 23 13C2 PFDA (M)



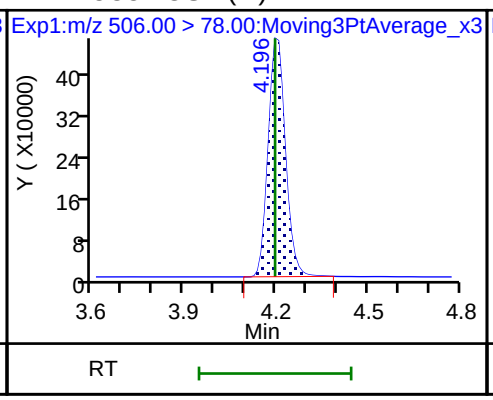
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



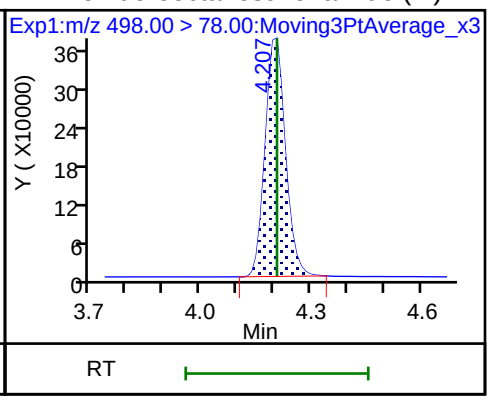
D 26 M2-8:2 FTS



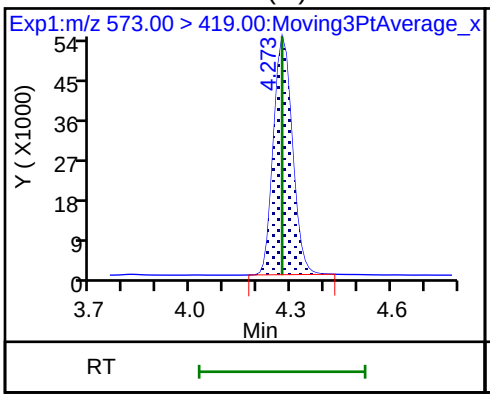
D 21 13C8 FOSA (M)



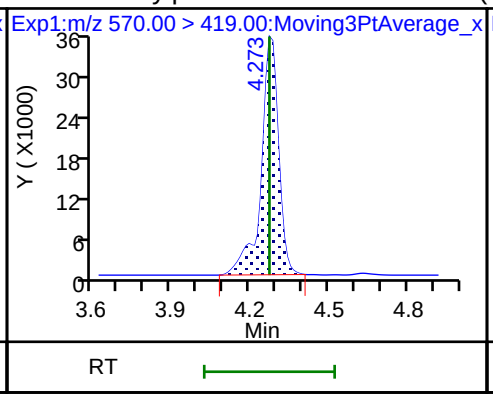
22 Perfluorooctanesulfonamide (M)



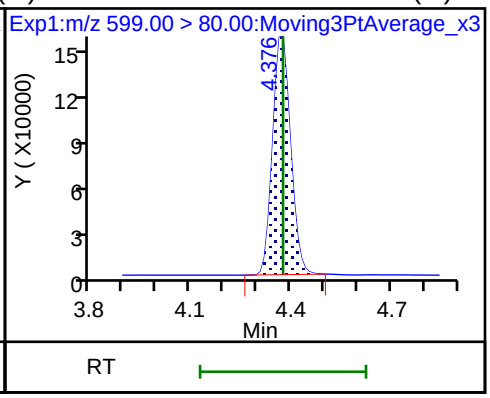
D 27 d3-NMeFOSAA (M)



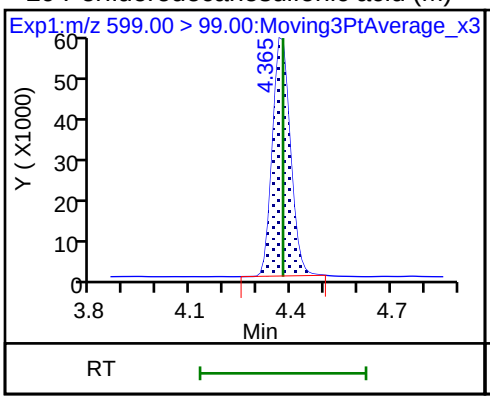
28 N-methylperfluorooctanesulfonami (M)



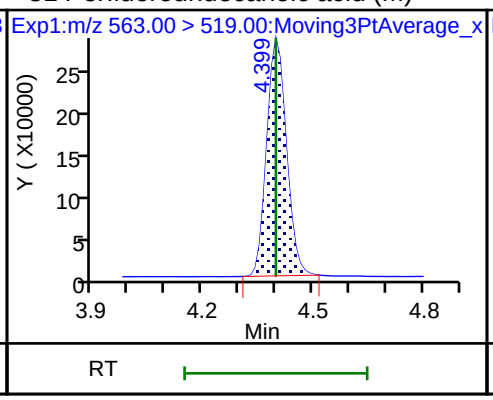
29 Perfluorodecanesulfonic acid (M)



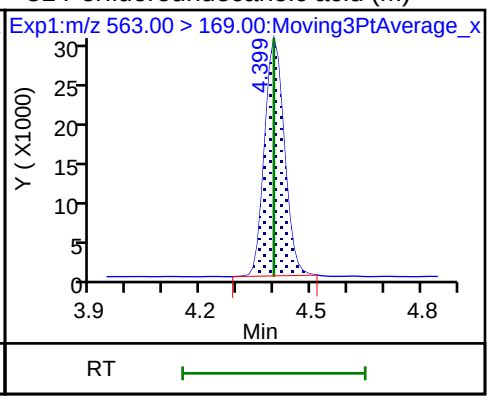
29 Perfluorodecanesulfonic acid (M)



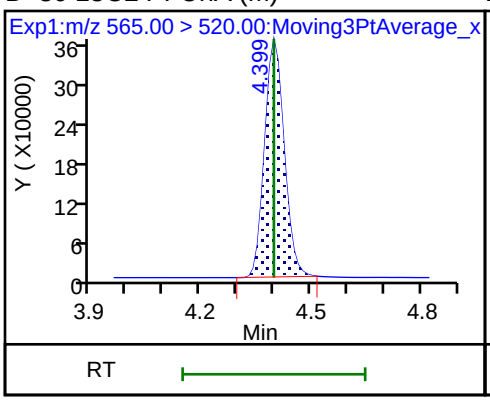
31 Perfluoroundecanoic acid (M)



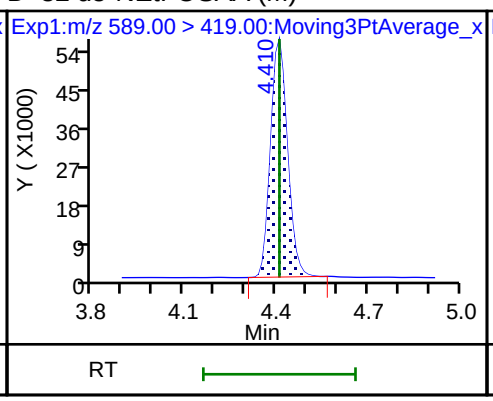
31 Perfluoroundecanoic acid (M)



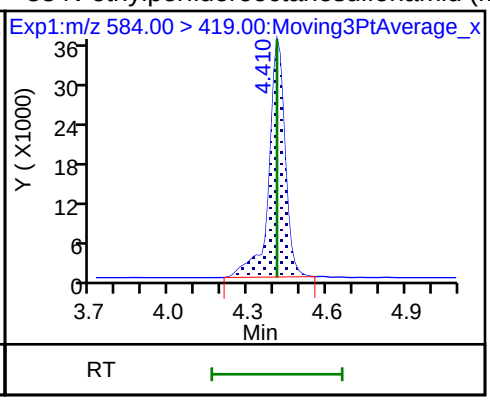
D 30 13C2 PFUnA (M)



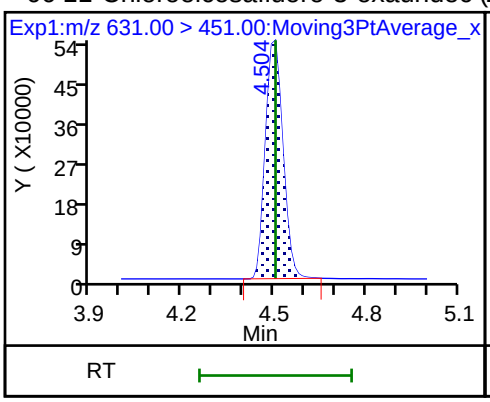
D 32 d5-NEtFOSAA (M)



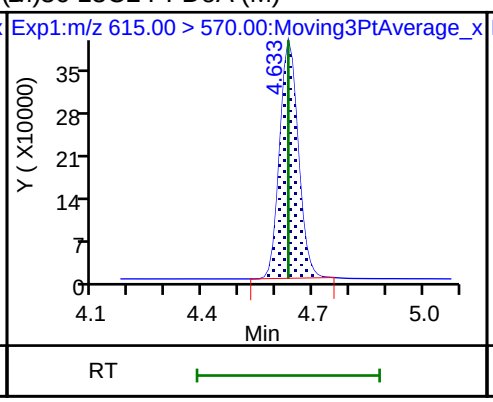
33 N-ethylperfluorooctanesulfonamid (M)



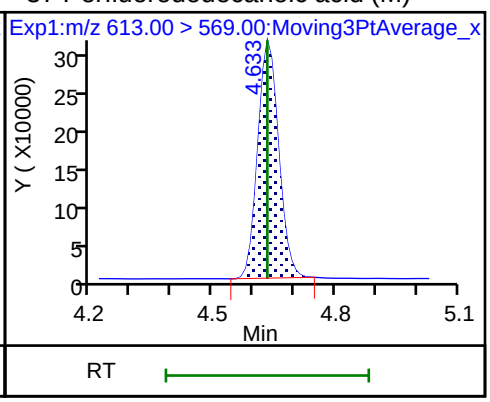
66 11-Chloroeicosafluoro-3-oxaundec (M)



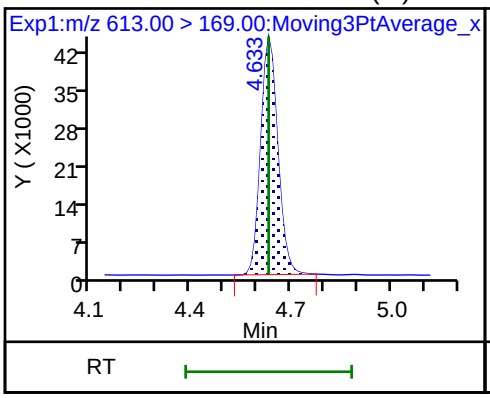
D 36 13C2 PFDoA (M)



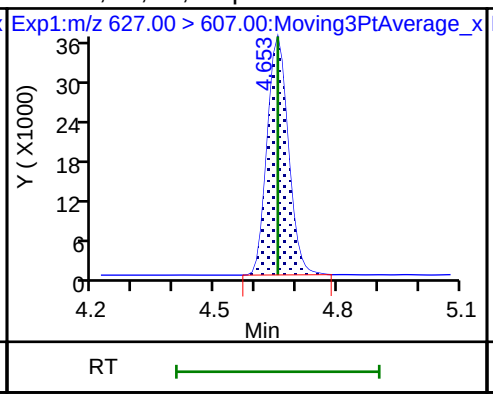
37 Perfluorododecanoic acid (M)



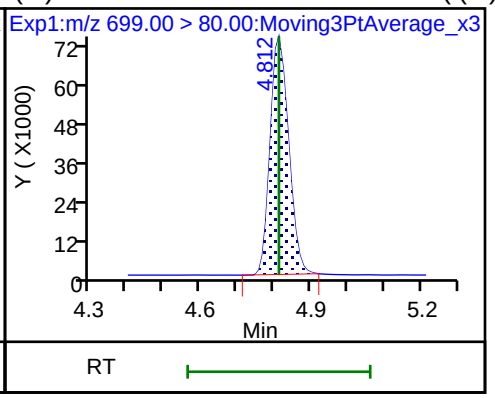
37 Perfluorododecanoic acid (M)



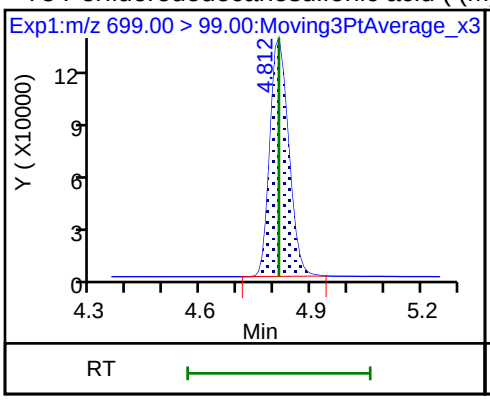
74 1H,1H,2H,2H-perfluorododecanesul (M)



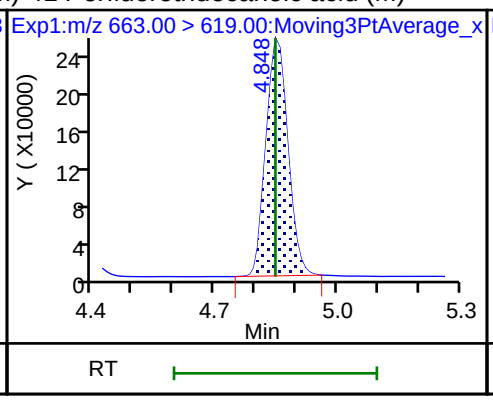
75 Perfluorododecanesulfonic acid ((M)



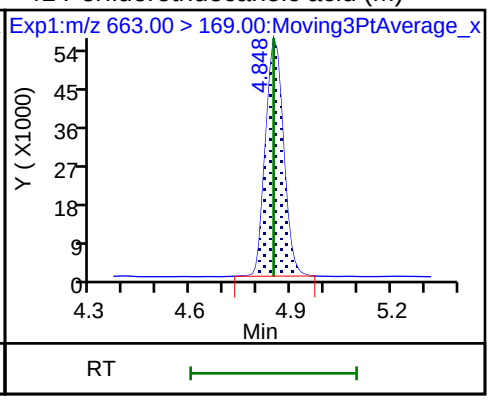
75 Perfluorododecanesulfonic acid ((M)



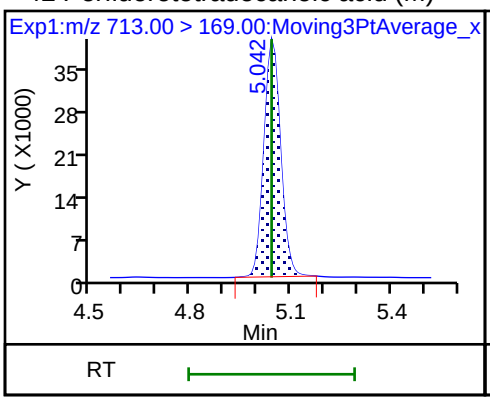
41 Perfluorotridecanoic acid (M)



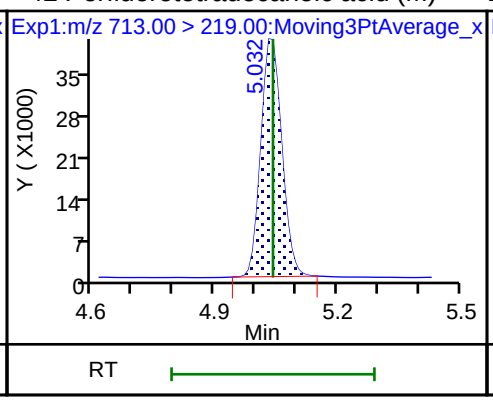
41 Perfluorotridecanoic acid (M)



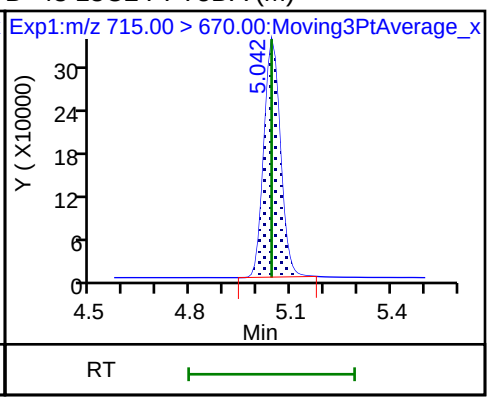
42 Perfluorotetradecanoic acid (M)



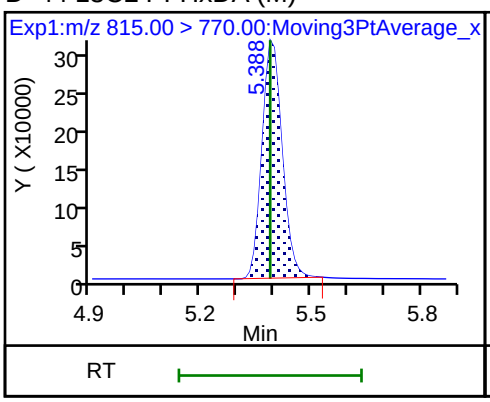
42 Perfluorotetradecanoic acid (M)



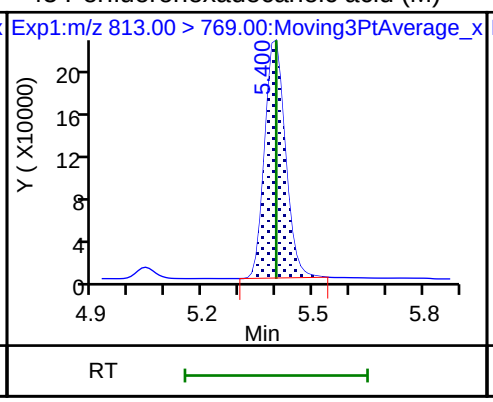
D 43 13C2 PFTeDA (M)



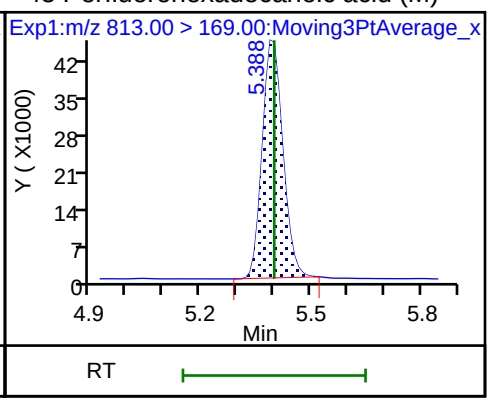
D 44 13C2 PFHxDA (M)



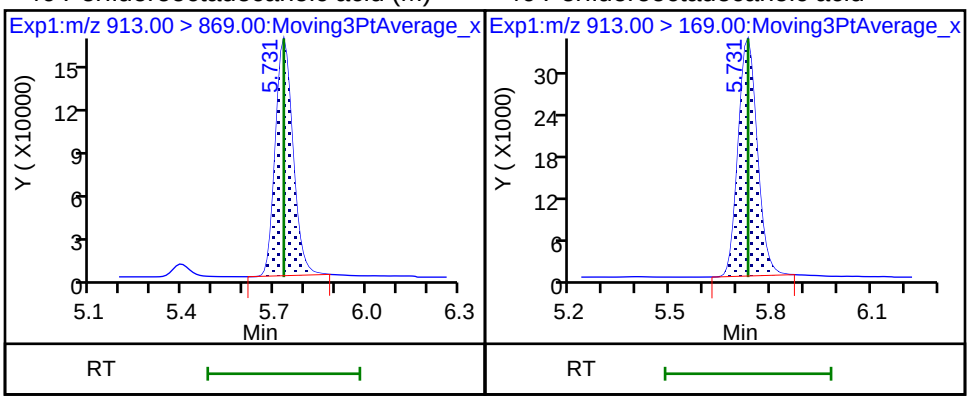
45 Perfluorohexadecanoic acid (M)



45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M) 46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins Burlington

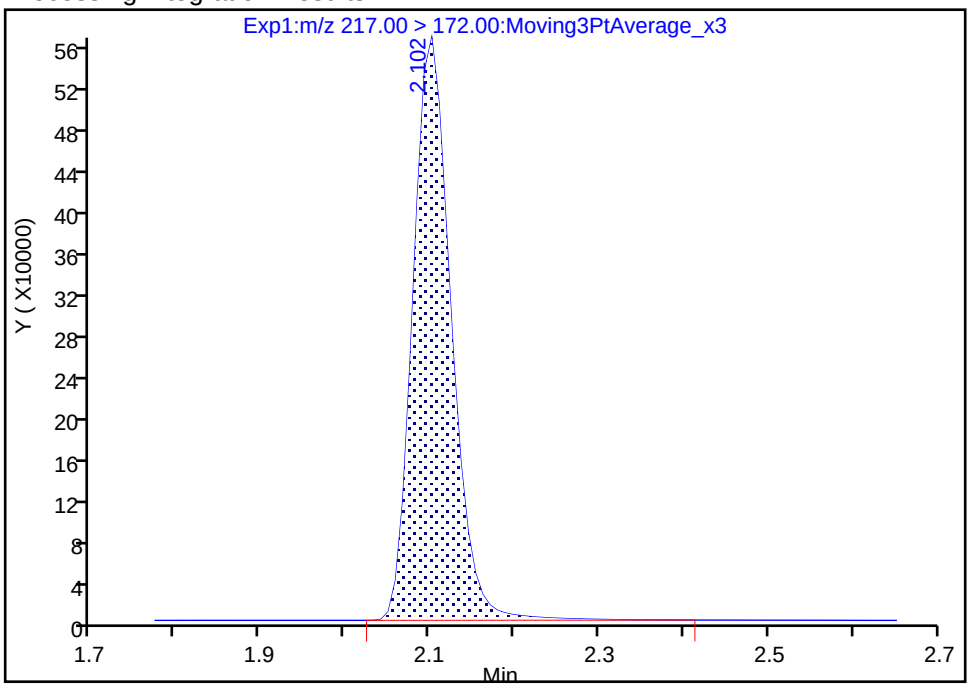
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

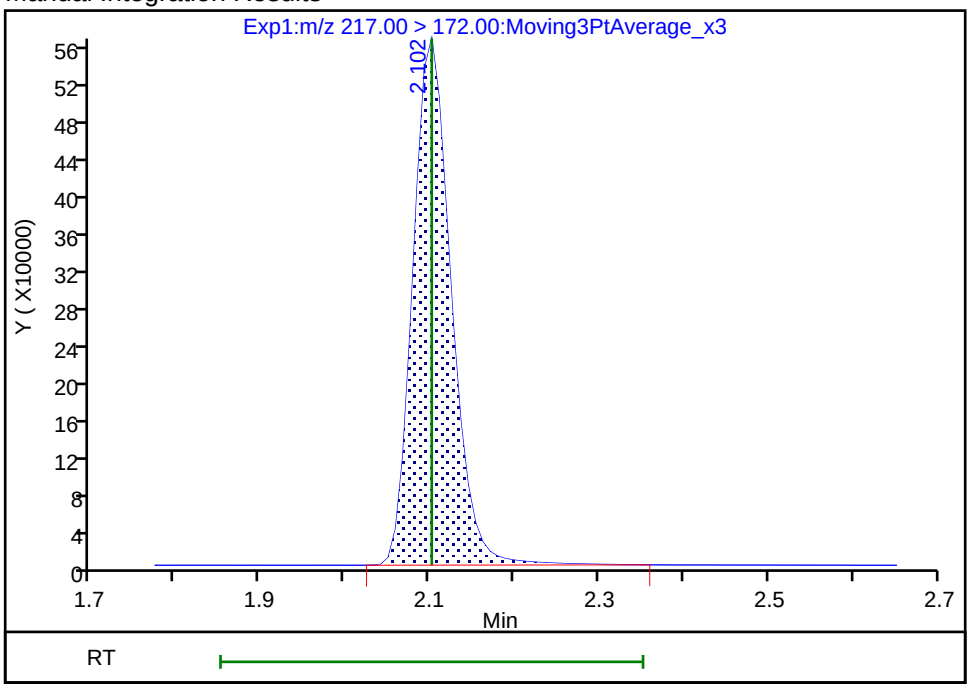
Processing Integration Results

RT: 2.10
Area: 1780665
Amount: 1.260056
Amount Units: ng/ml



Manual Integration Results

RT: 2.10
Area: 1778646
Amount: 1.278098
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:53:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

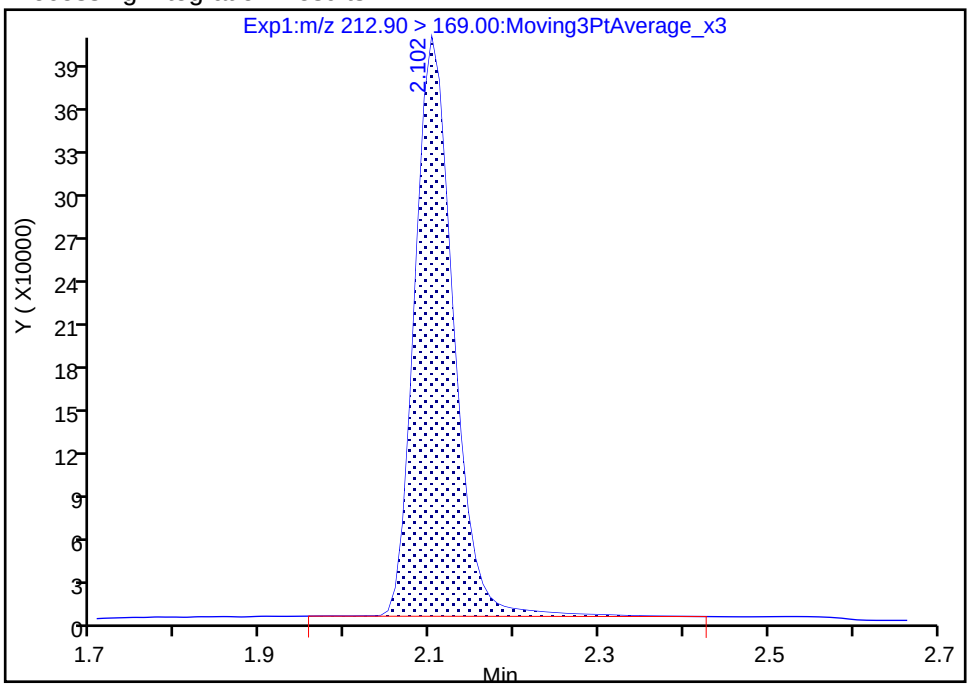
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

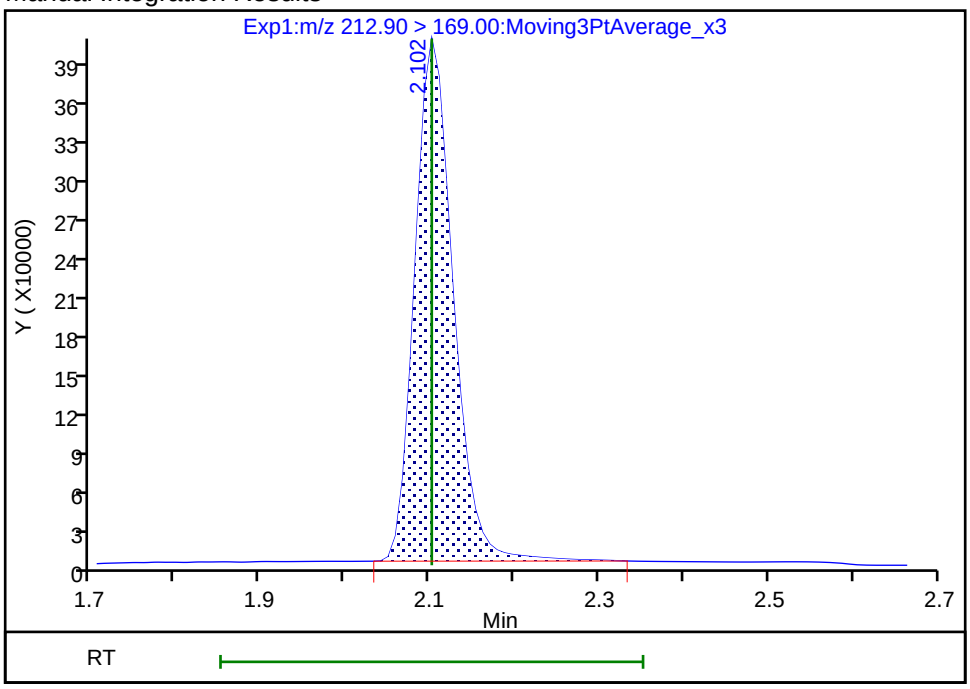
Processing Integration Results

RT: 2.10
Area: 1279959
Amount: 0.942137
Amount Units: ng/ml



Manual Integration Results

RT: 2.10
Area: 1271152
Amount: 0.946640
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:53:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

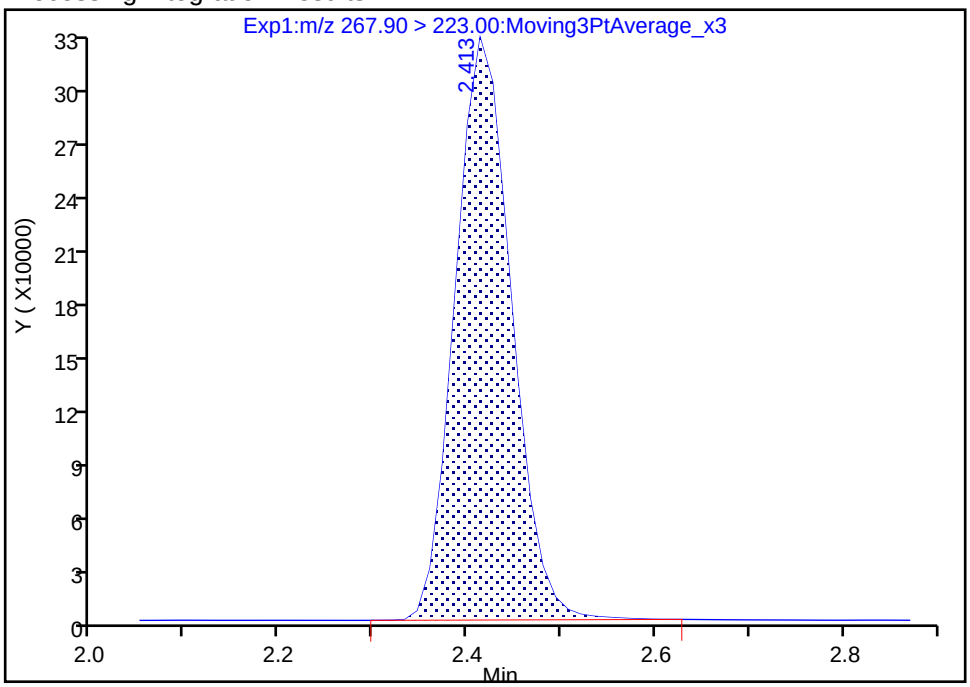
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d				
Injection Date:	05-May-2022 15:38:07	Instrument ID:	LC812		
Lims ID:	ICIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 3 13C5 PFPeA, CAS: STL01893

Signal: 1

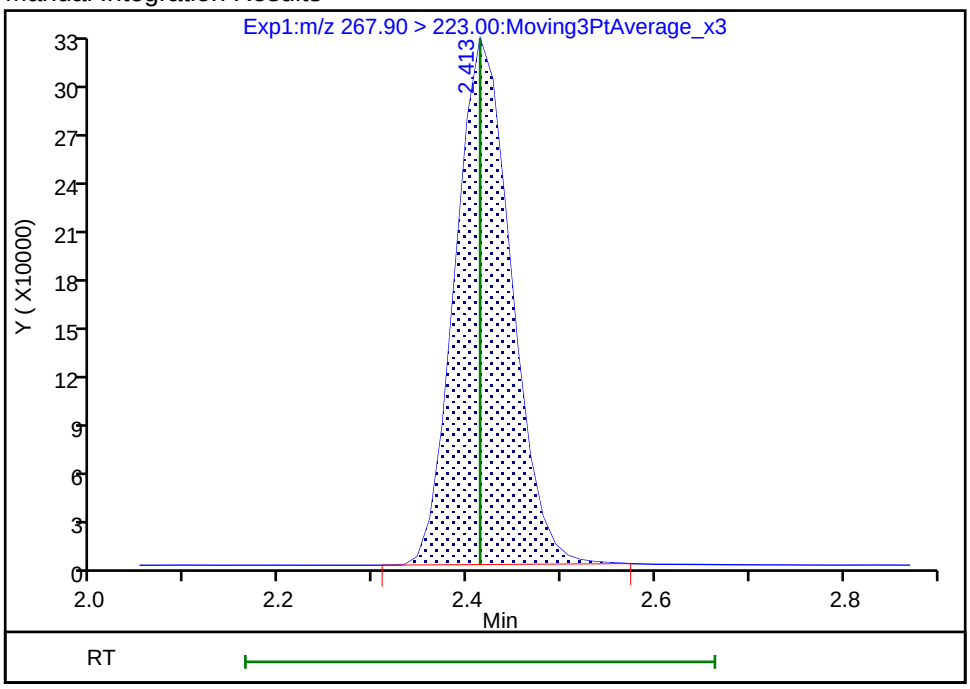
Processing Integration Results

RT: 2.41
Area: 1348210
Amount: 1.254455
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 1342973
Amount: 1.262477
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:53:49

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

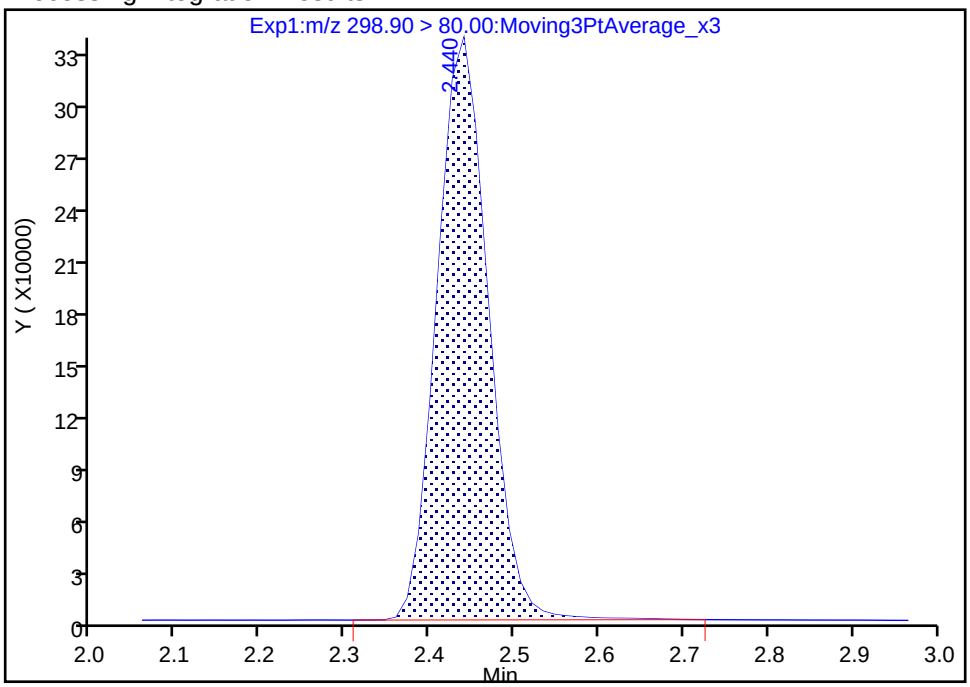
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

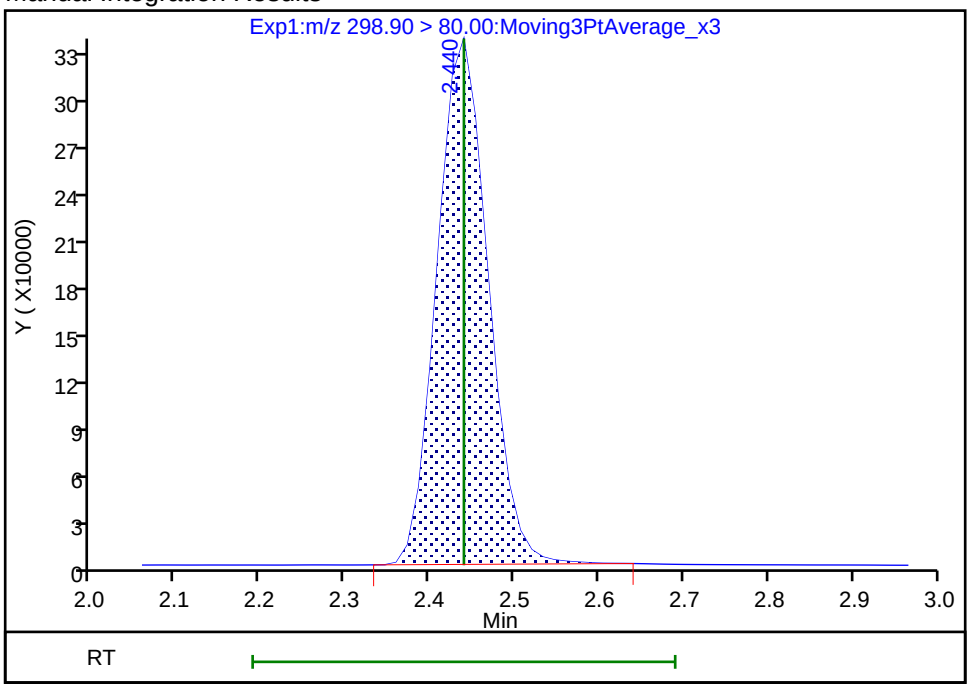
Processing Integration Results

RT: 2.44
Area: 1418091
Amount: 0.832082
Amount Units: ng/ml



Manual Integration Results

RT: 2.44
Area: 1409337
Amount: 0.826502
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:54:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

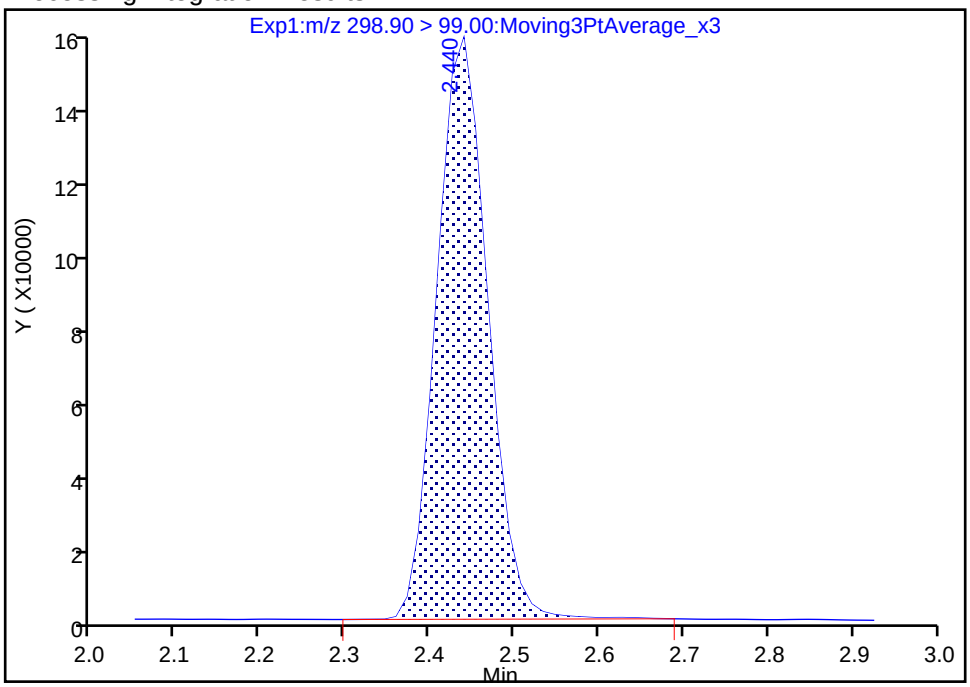
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

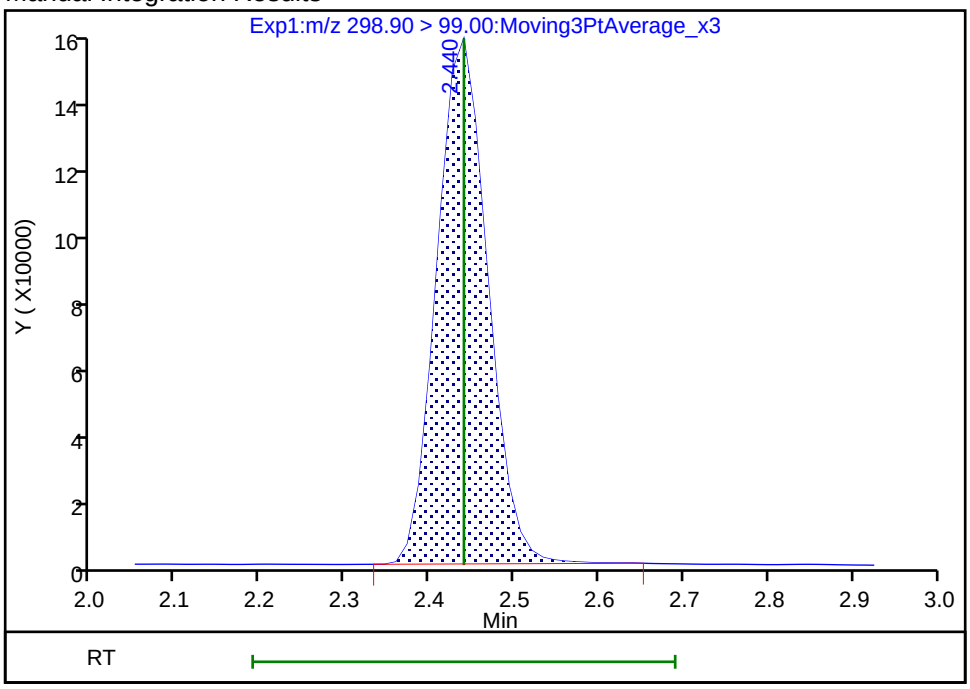
Processing Integration Results

RT: 2.44
Area: 659202
Amount: 0.832082
Amount Units: ng/ml



Manual Integration Results

RT: 2.44
Area: 656851
Amount: 0.826502
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:54:06
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

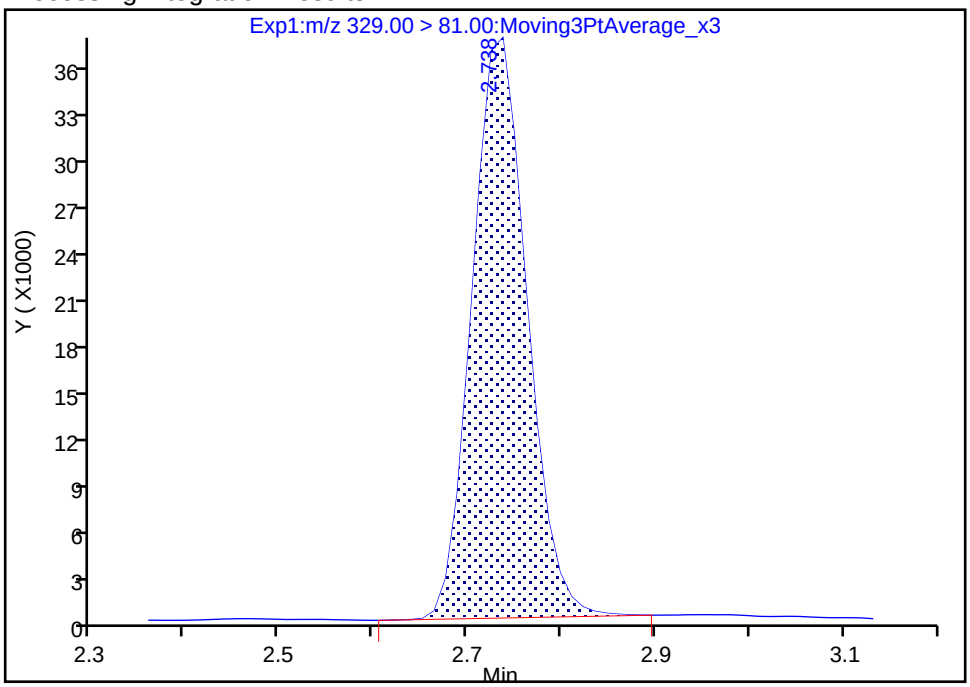
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

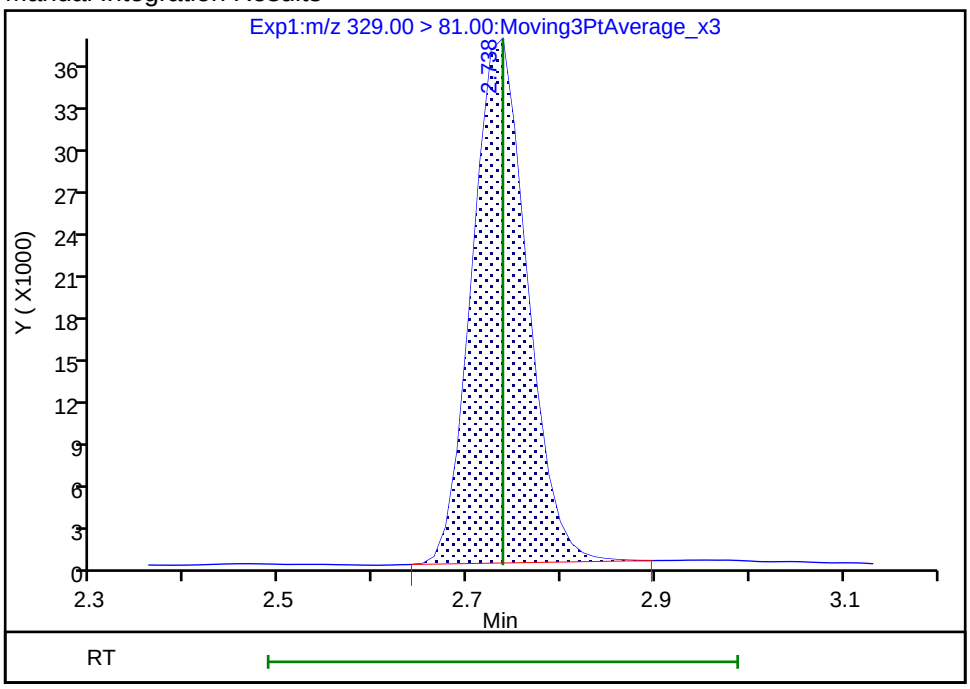
Processing Integration Results

RT: 2.74
Area: 151230
Amount: 1.160131
Amount Units: ng/ml



Manual Integration Results

RT: 2.74
Area: 151117
Amount: 1.184488
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:54:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

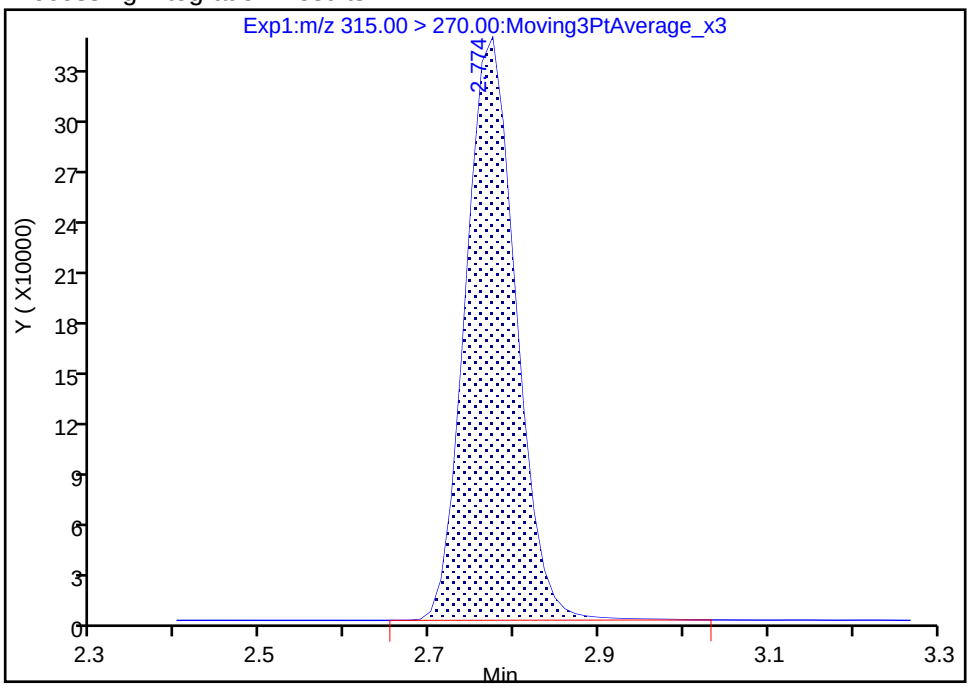
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

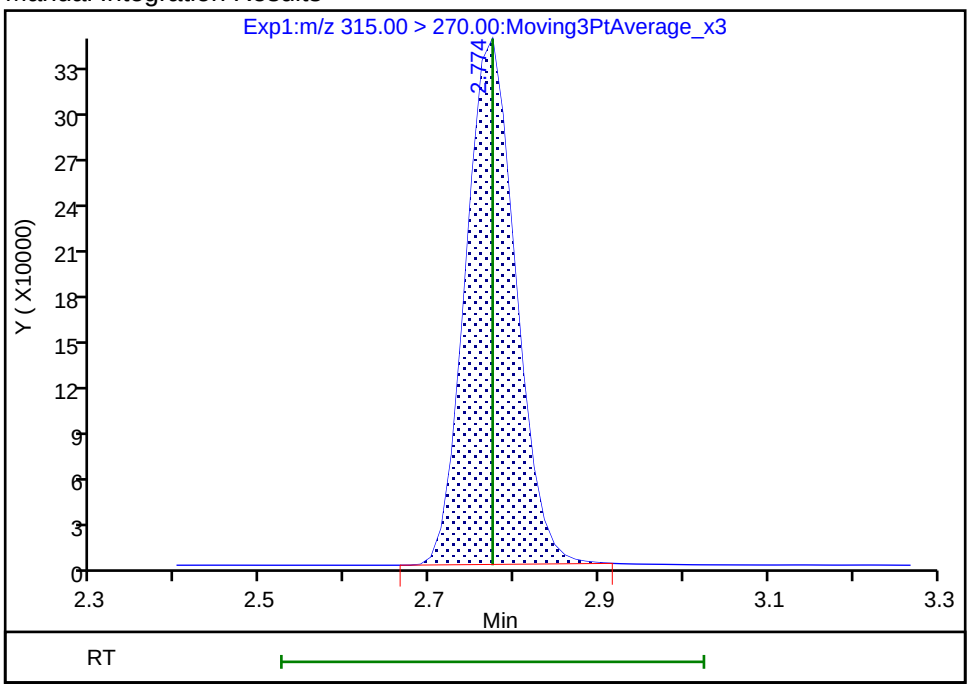
Processing Integration Results

RT: 2.77
Area: 1440038
Amount: 1.295917
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 1429355
Amount: 1.314000
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:54:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

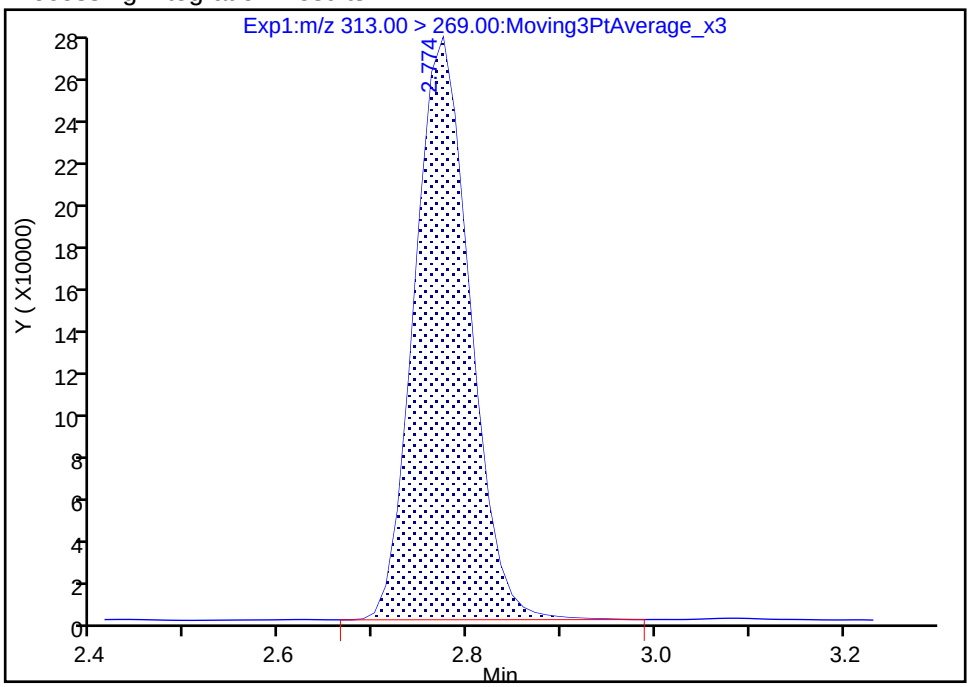
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

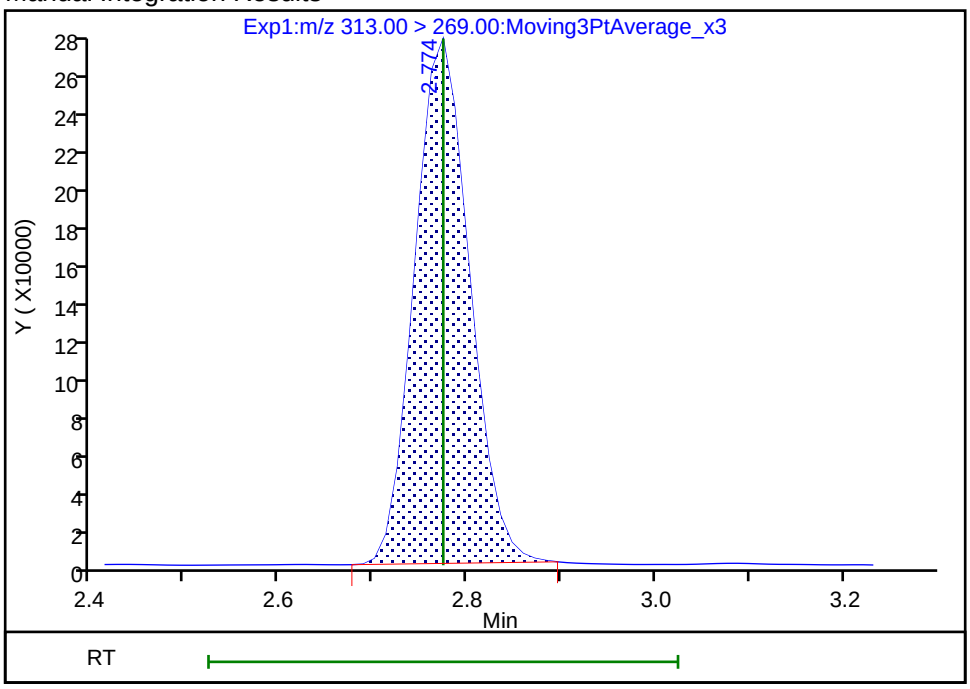
Processing Integration Results

RT: 2.77
Area: 1127539
Amount: 0.910609
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 1115338
Amount: 0.903676
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:54:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

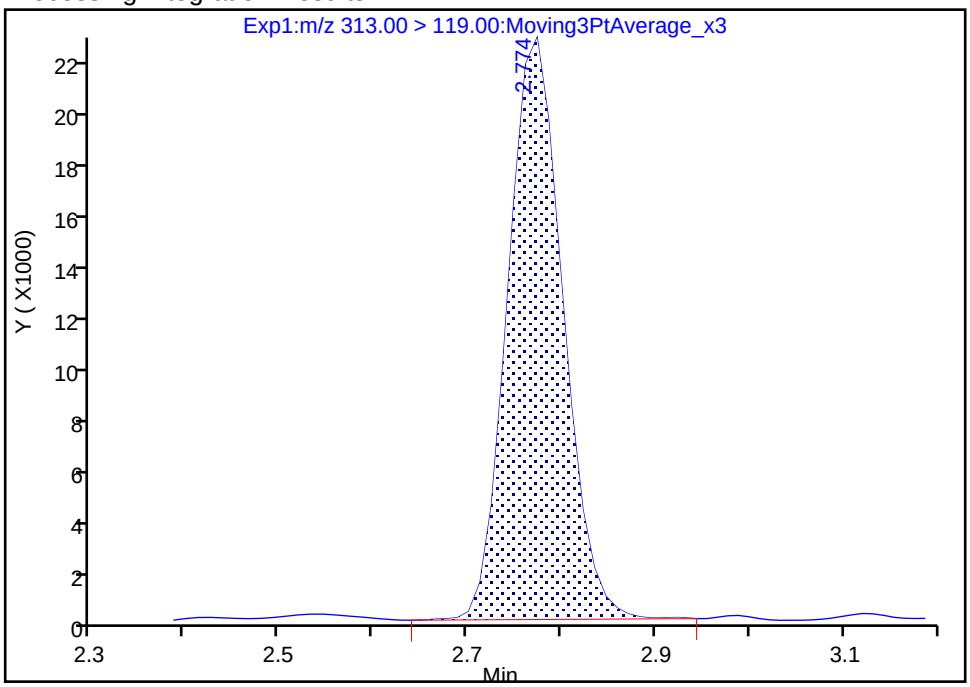
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

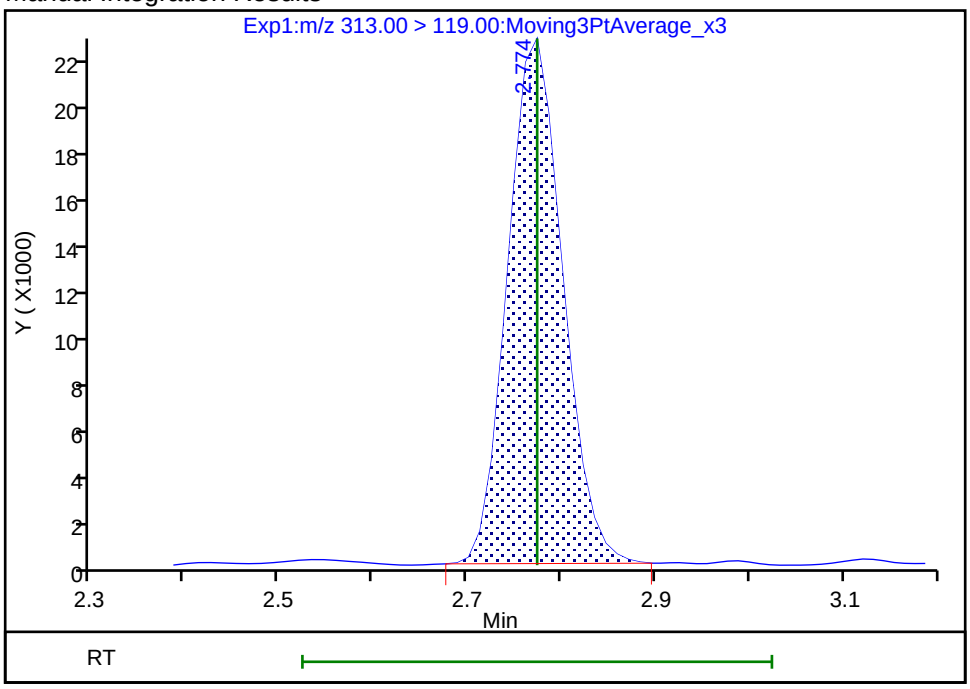
Processing Integration Results

RT: 2.77
Area: 89246
Amount: 0.910609
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 88624
Amount: 0.903676
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:54:20
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

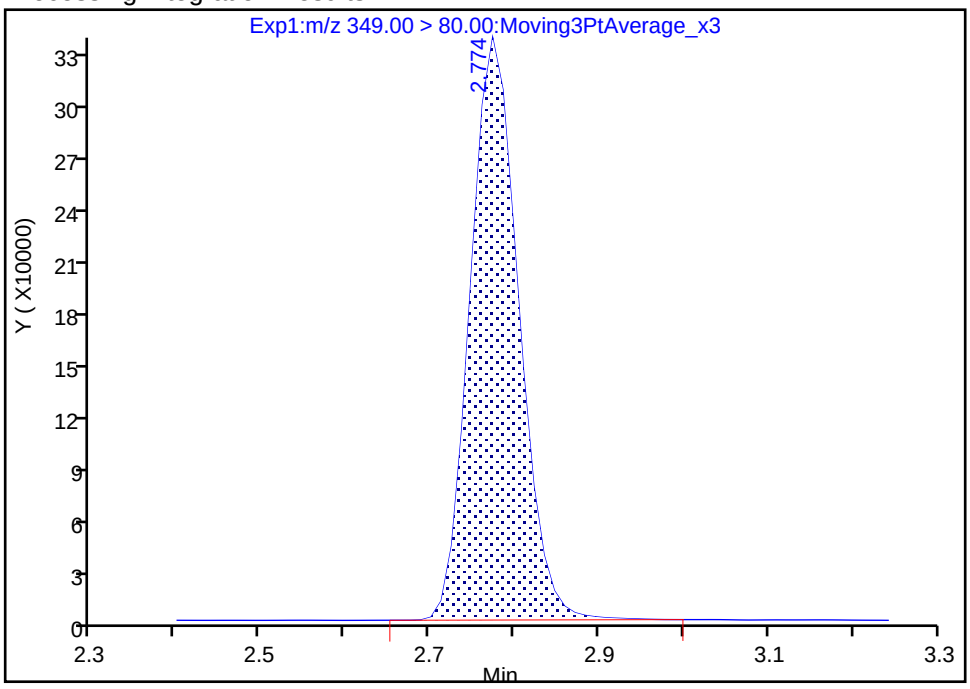
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

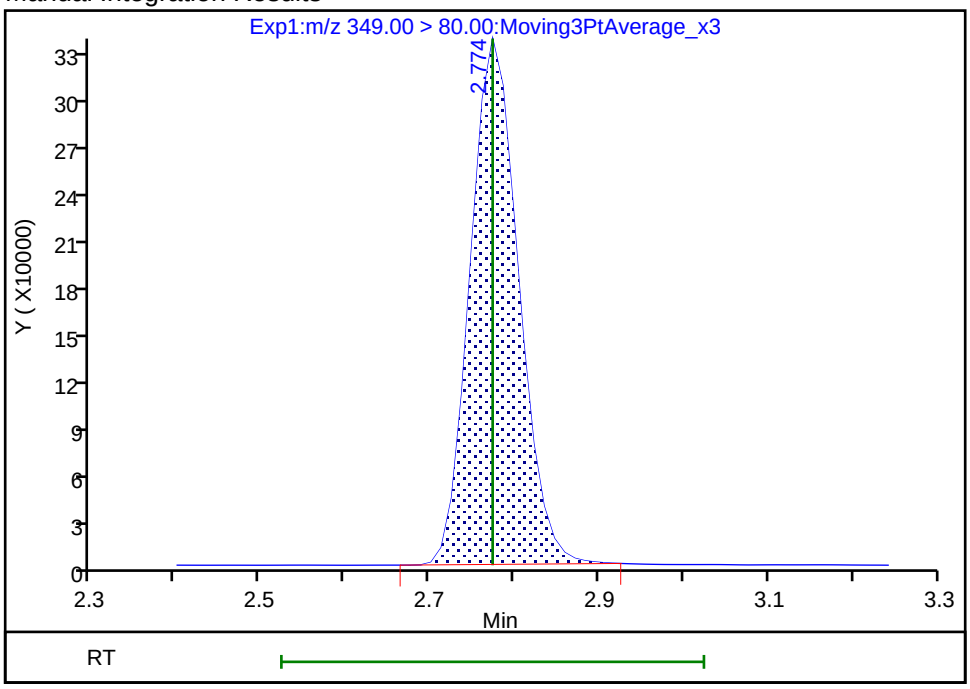
Processing Integration Results

RT: 2.77
Area: 1339692
Amount: 0.855280
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 1332190
Amount: 0.862396
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:54:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

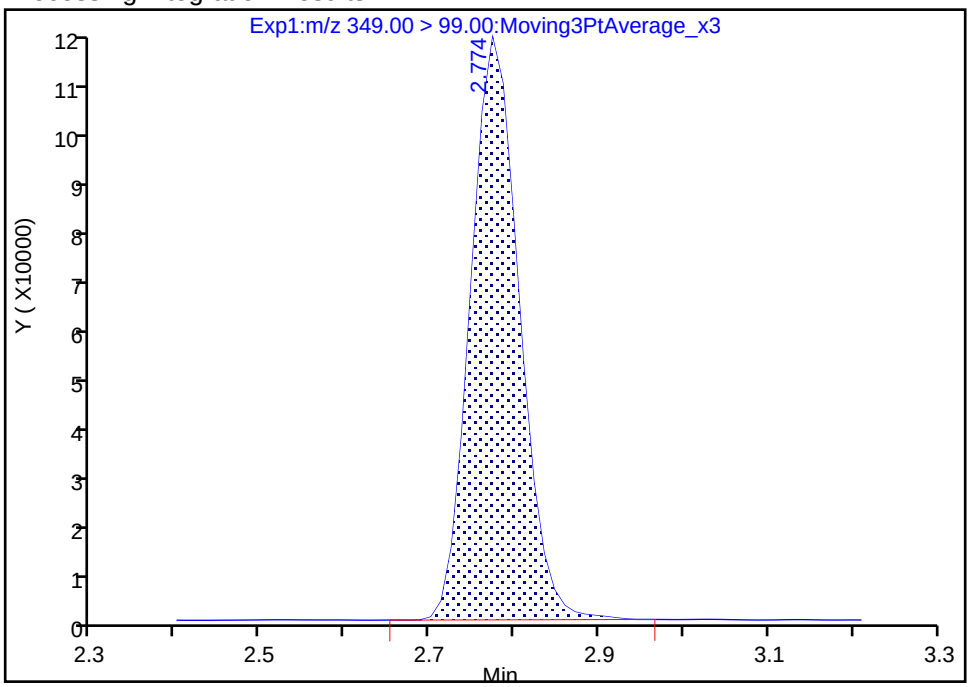
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 2

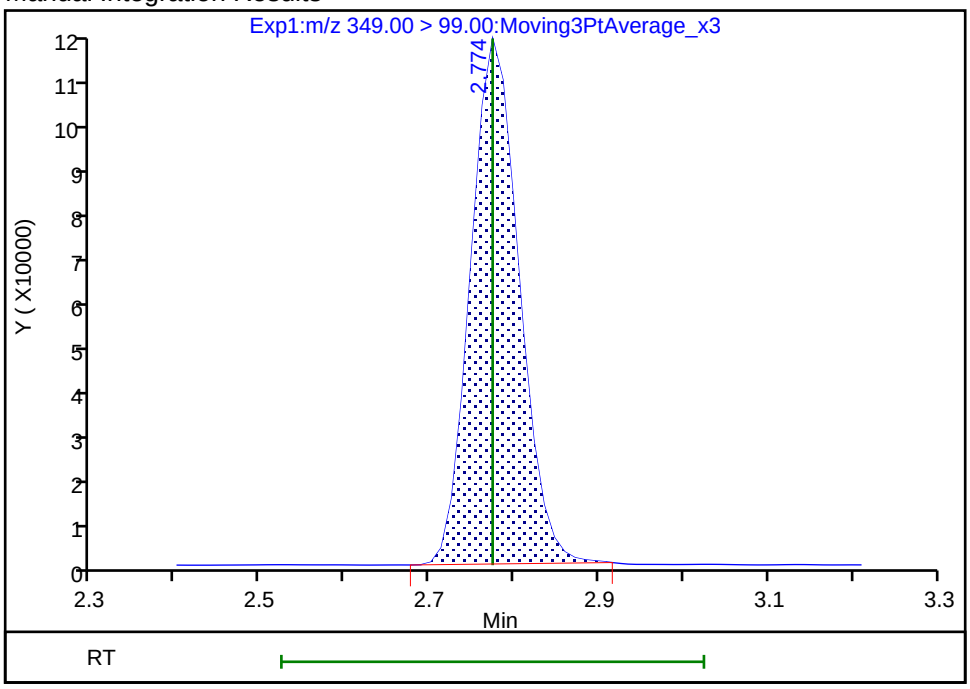
Processing Integration Results

RT: 2.77
Area: 453385
Amount: 0.855280
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 450026
Amount: 0.862396
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:54:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

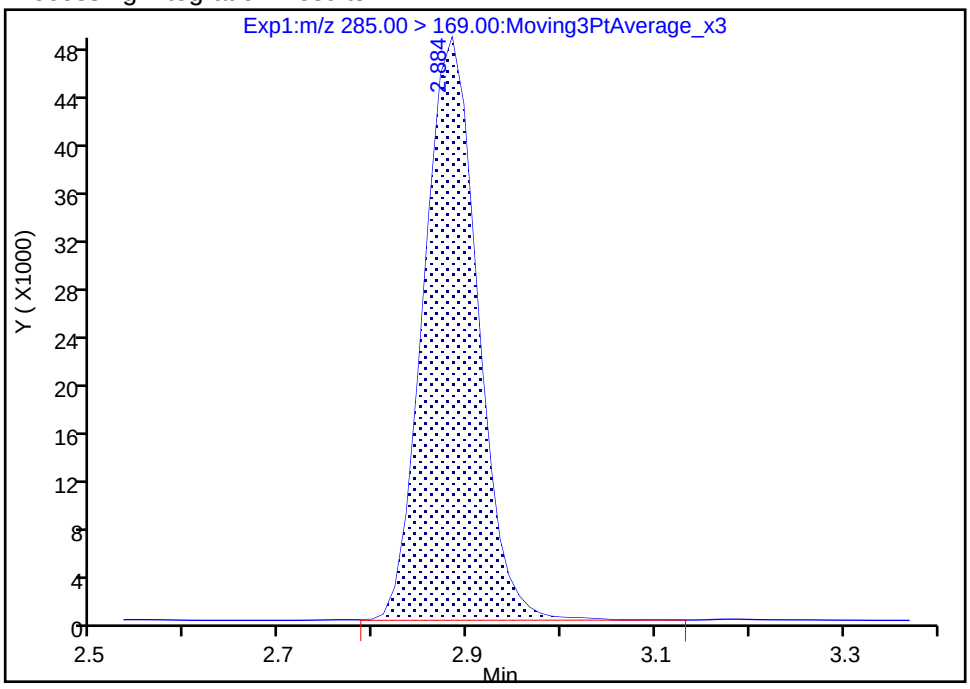
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

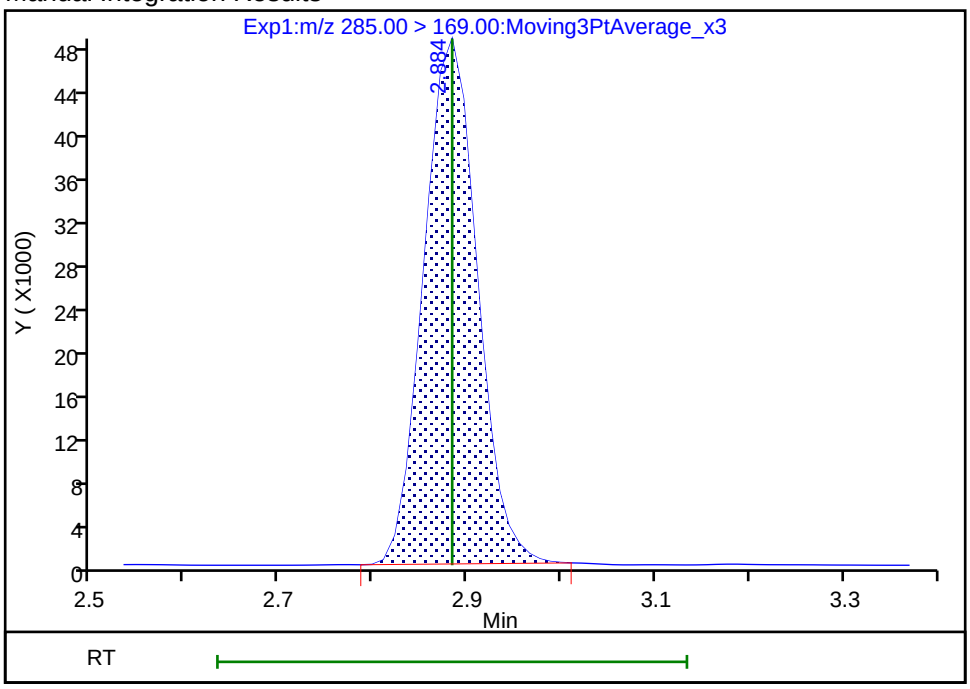
Processing Integration Results

RT: 2.88
Area: 194064
Amount: 0.945347
Amount Units: ng/ml



Manual Integration Results

RT: 2.88
Area: 192074
Amount: 0.945375
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:54:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

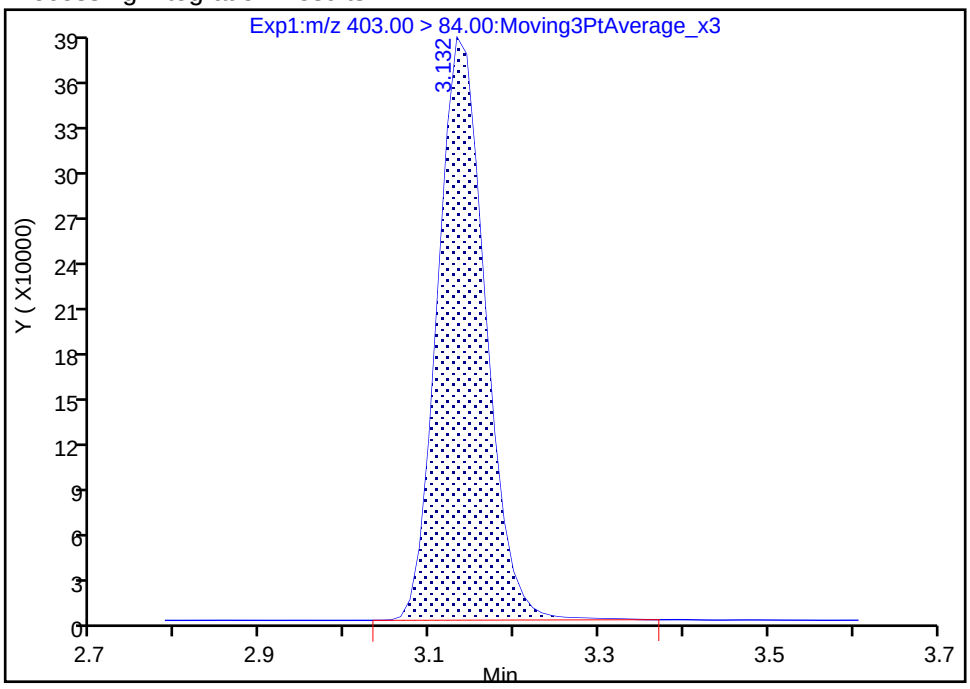
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

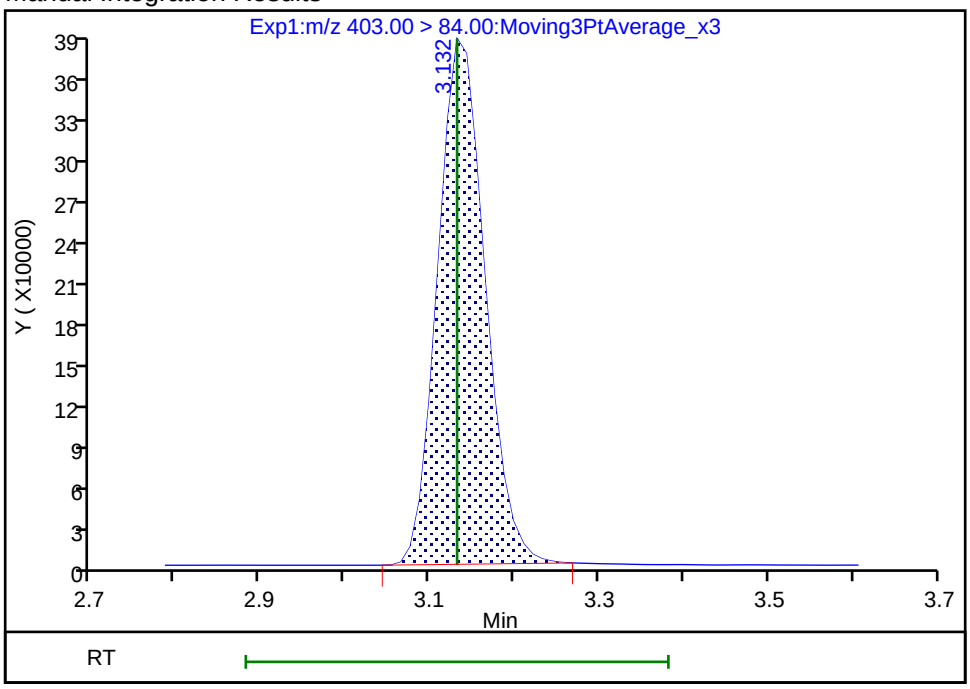
Processing Integration Results

RT: 3.13
Area: 1491908
Amount: 1.232191
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 1479084
Amount: 1.225971
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:54:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

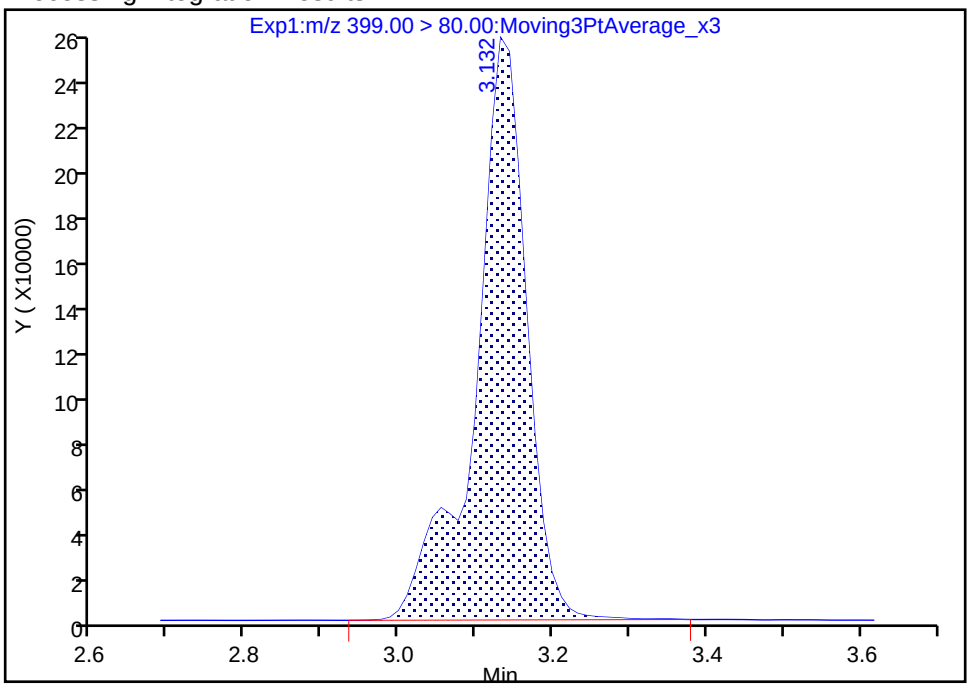
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

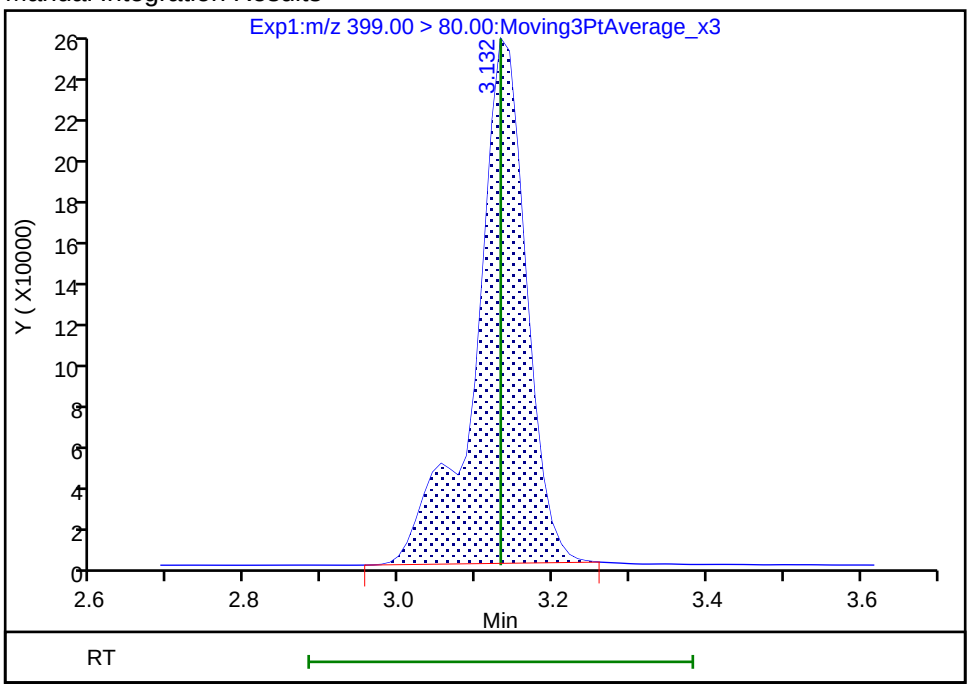
Processing Integration Results

RT: 3.13
Area: 1192520
Amount: 0.858494
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 1177548
Amount: 0.851754
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:54:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

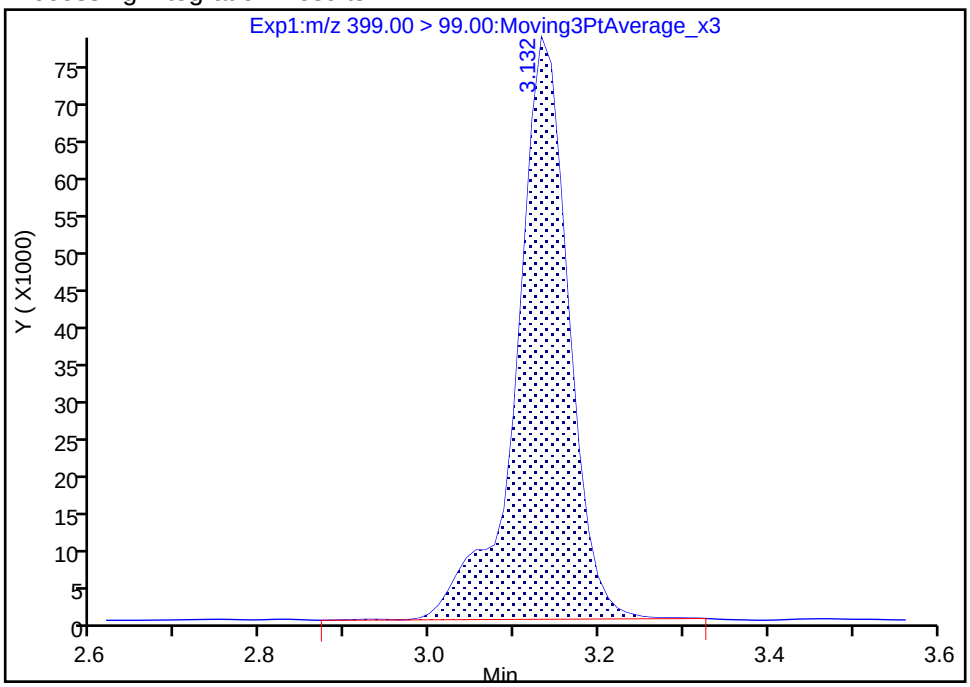
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

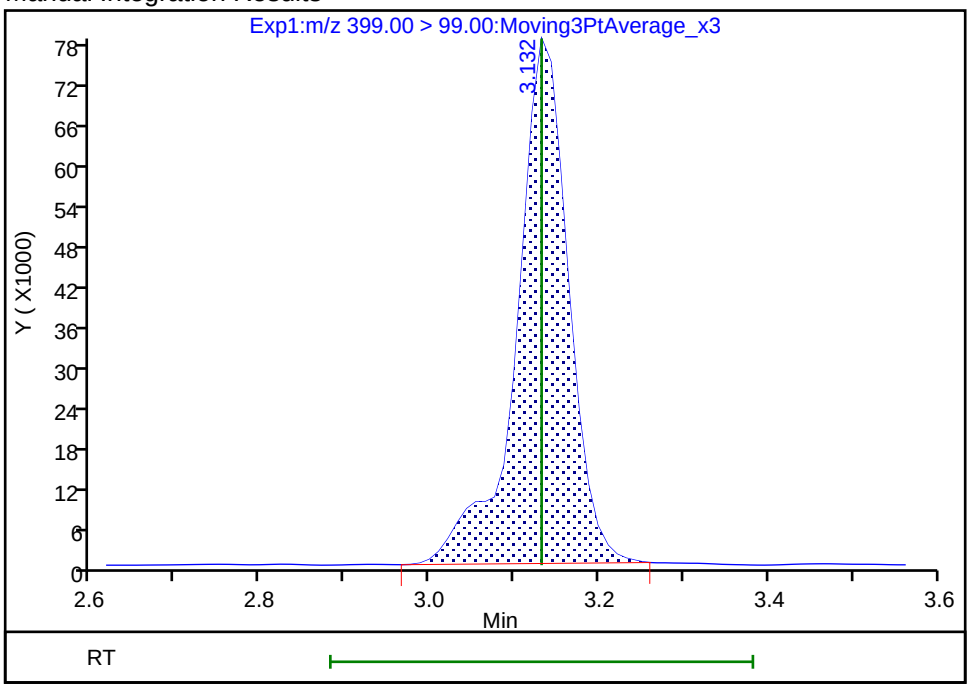
Processing Integration Results

RT: 3.13
Area: 336184
Amount: 0.858494
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 333682
Amount: 0.851754
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:54:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

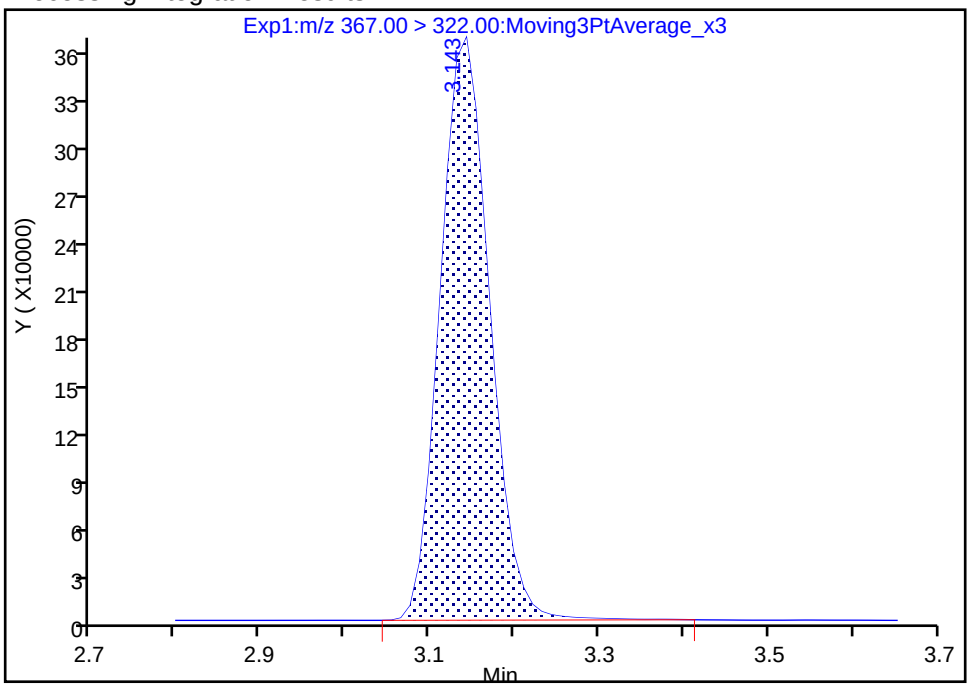
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

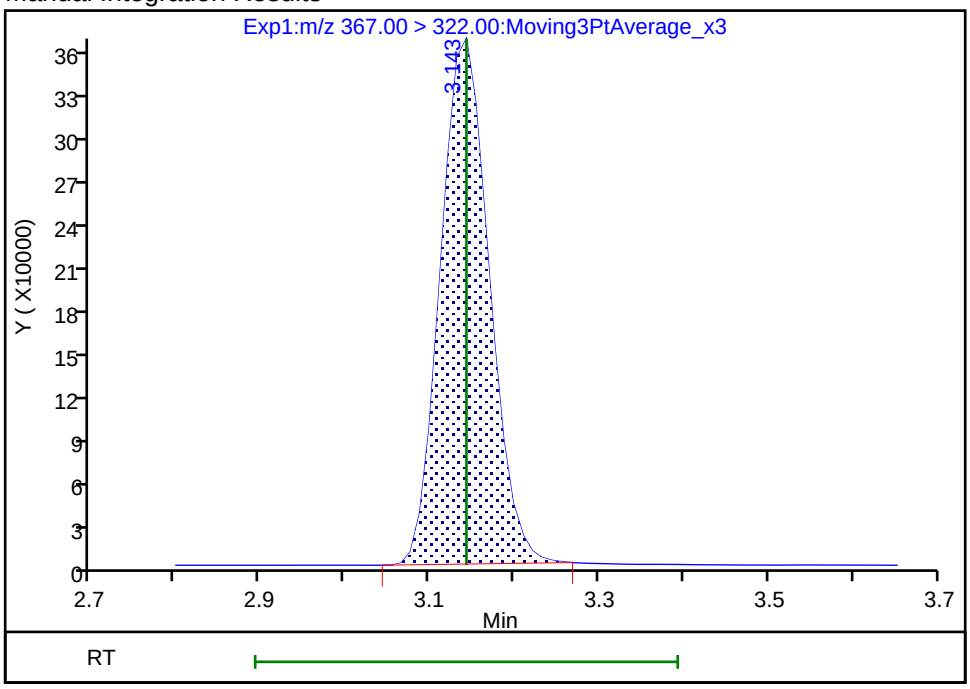
Processing Integration Results

RT: 3.14
Area: 1478914
Amount: 1.261072
Amount Units: ng/ml



Manual Integration Results

RT: 3.14
Area: 1463358
Amount: 1.246829
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:55:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

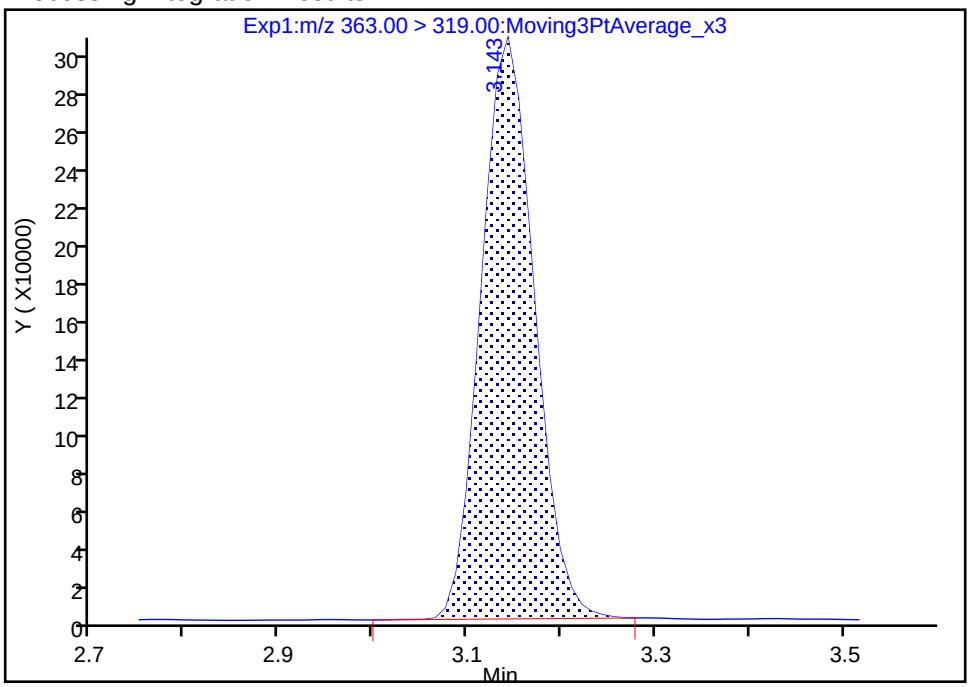
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

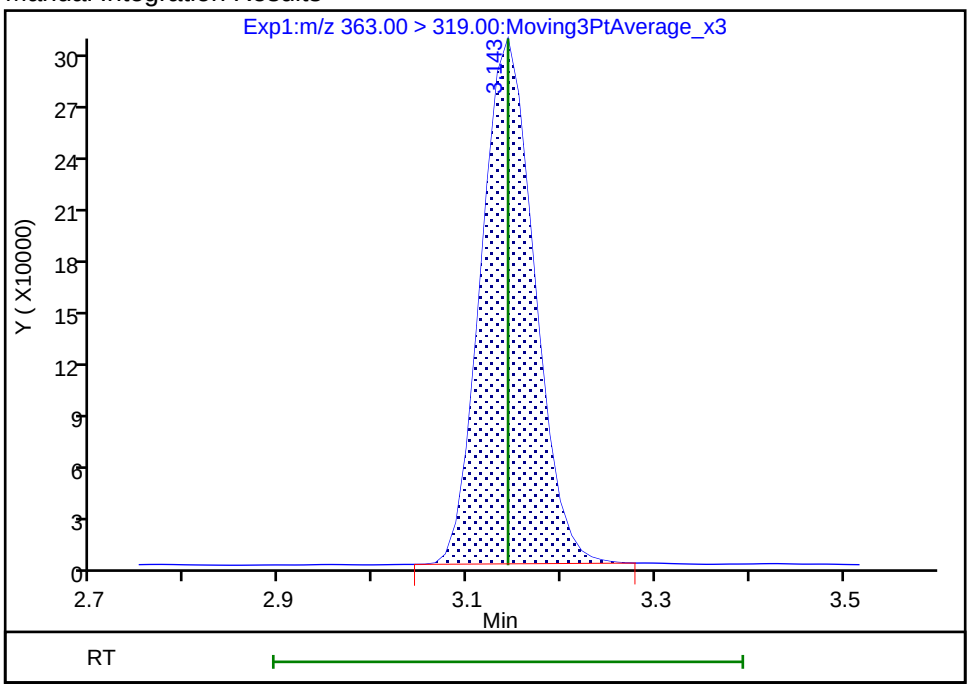
Processing Integration Results

RT: 3.14
Area: 1205184
Amount: 0.987372
Amount Units: ng/ml



Manual Integration Results

RT: 3.14
Area: 1204223
Amount: 1.017895
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:54:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

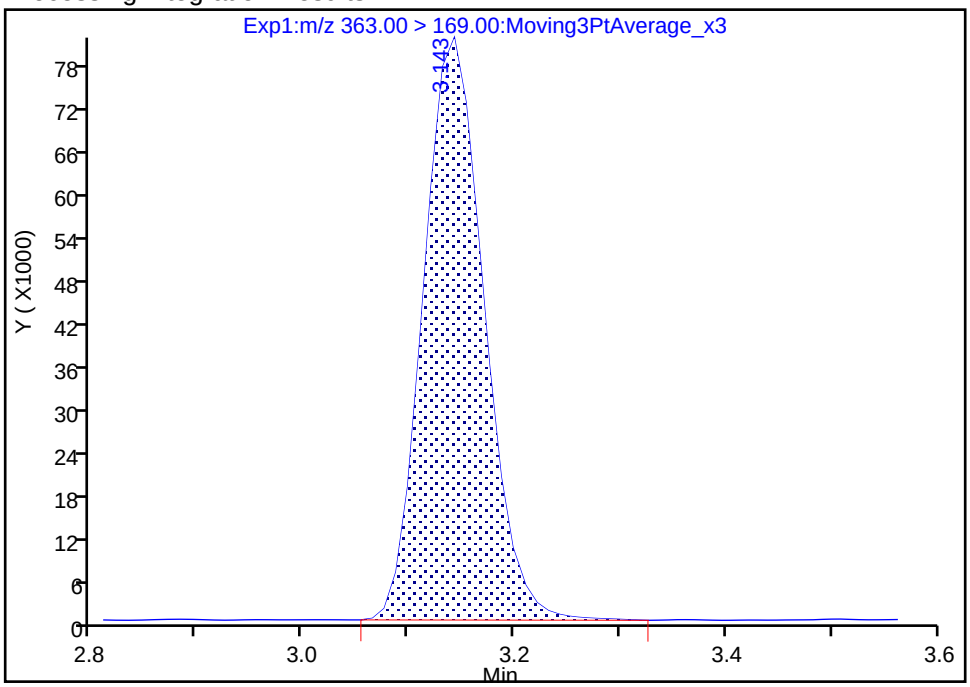
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

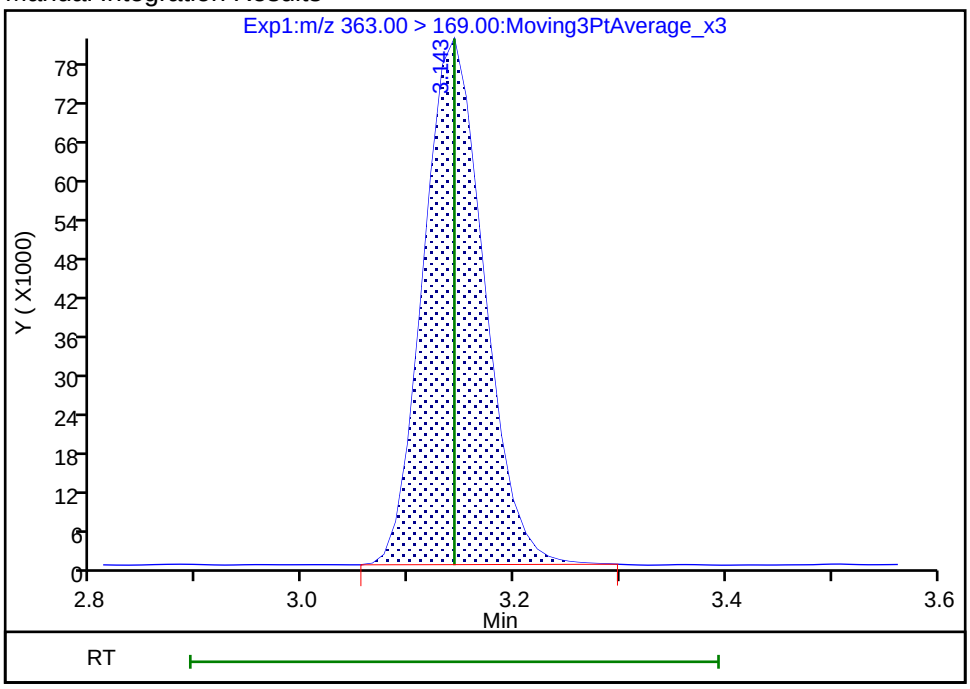
Processing Integration Results

RT: 3.14
Area: 322625
Amount: 0.987372
Amount Units: ng/ml



Manual Integration Results

RT: 3.14
Area: 321500
Amount: 1.017895
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:55:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

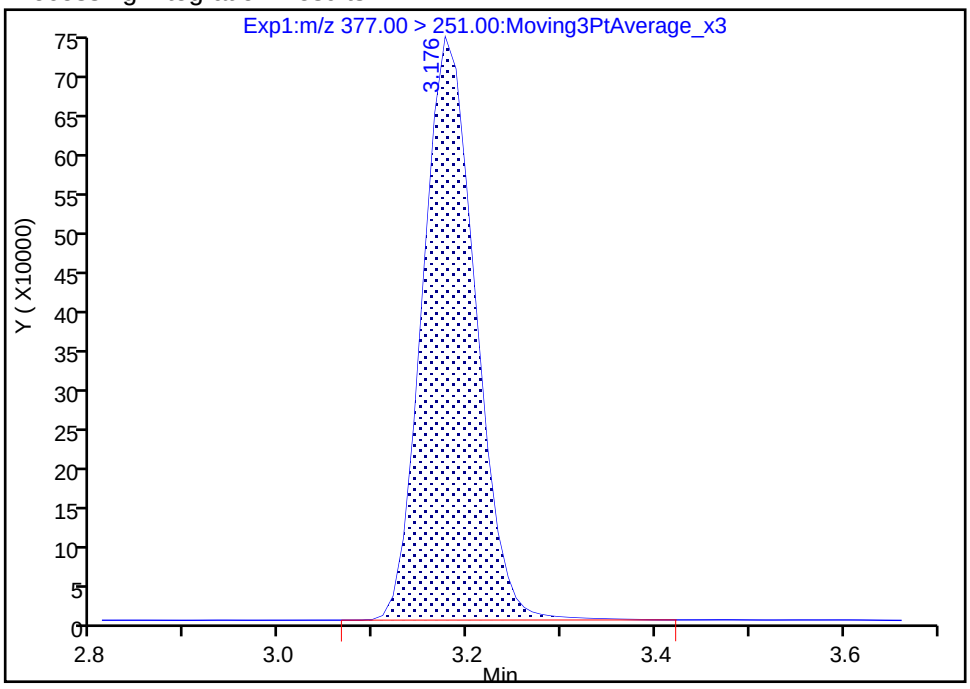
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

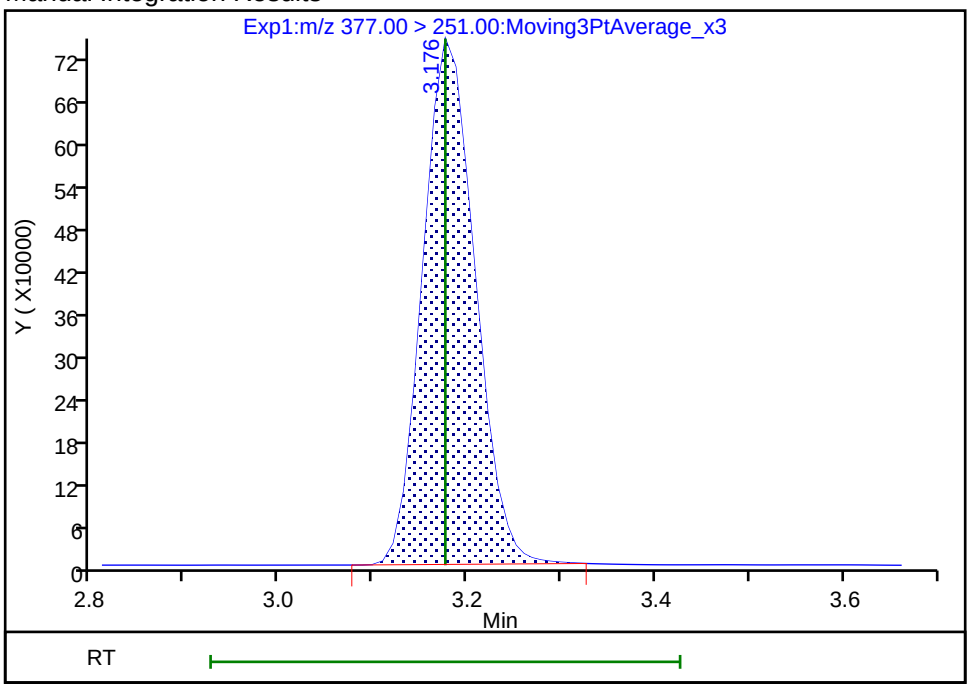
Processing Integration Results

RT: 3.18
Area: 2886747
Amount: 0.879932
Amount Units: ng/ml



Manual Integration Results

RT: 3.18
Area: 2867935
Amount: 0.901070
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:55:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

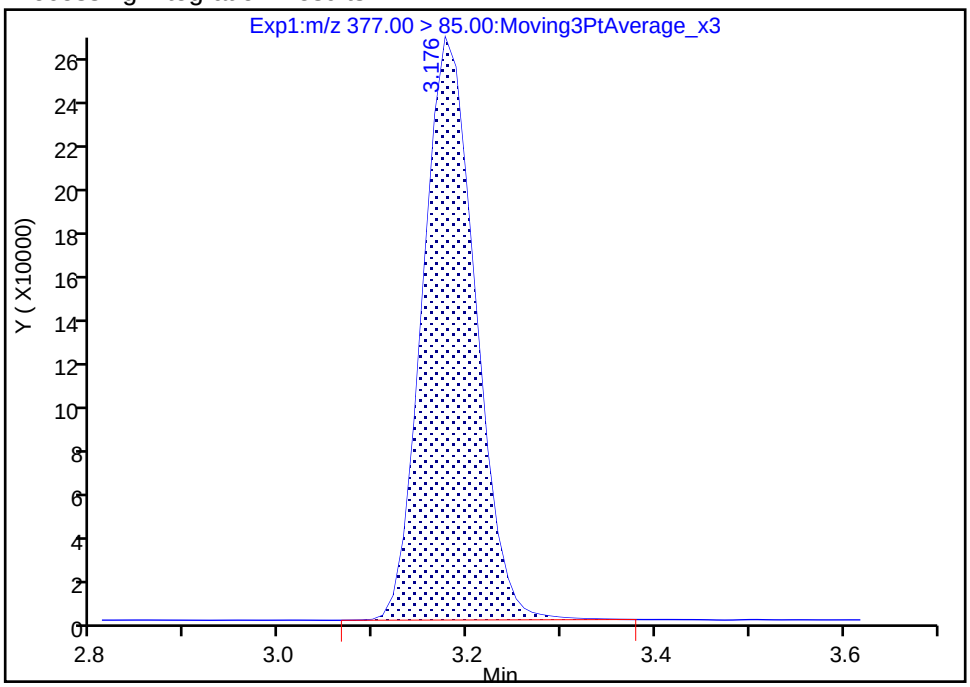
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

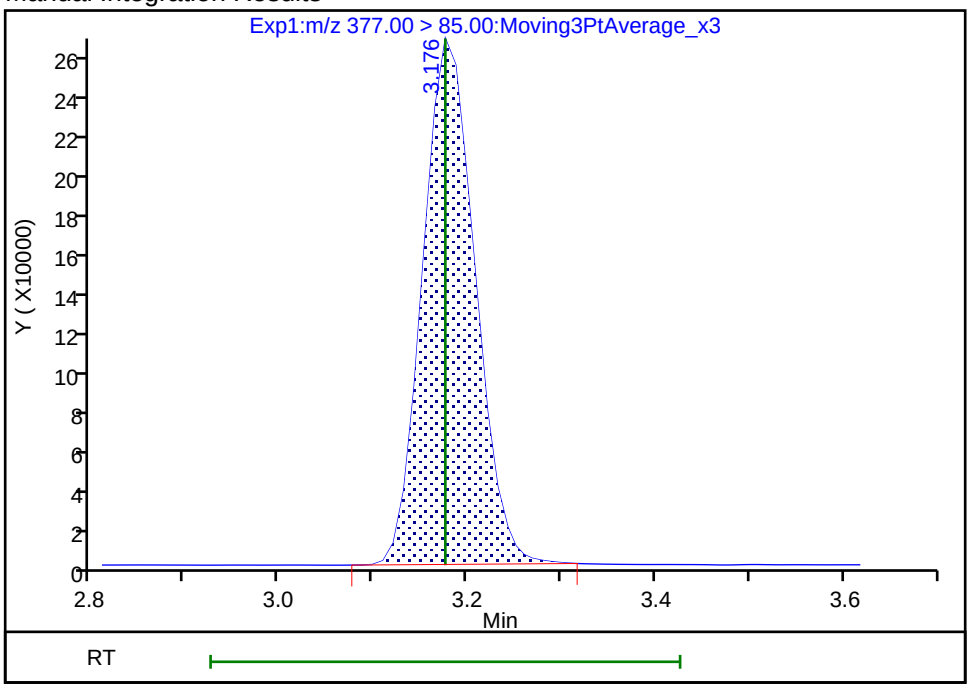
Processing Integration Results

RT: 3.18
Area: 1040832
Amount: 0.879932
Amount Units: ng/ml



Manual Integration Results

RT: 3.18
Area: 1035653
Amount: 0.901070
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:55:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

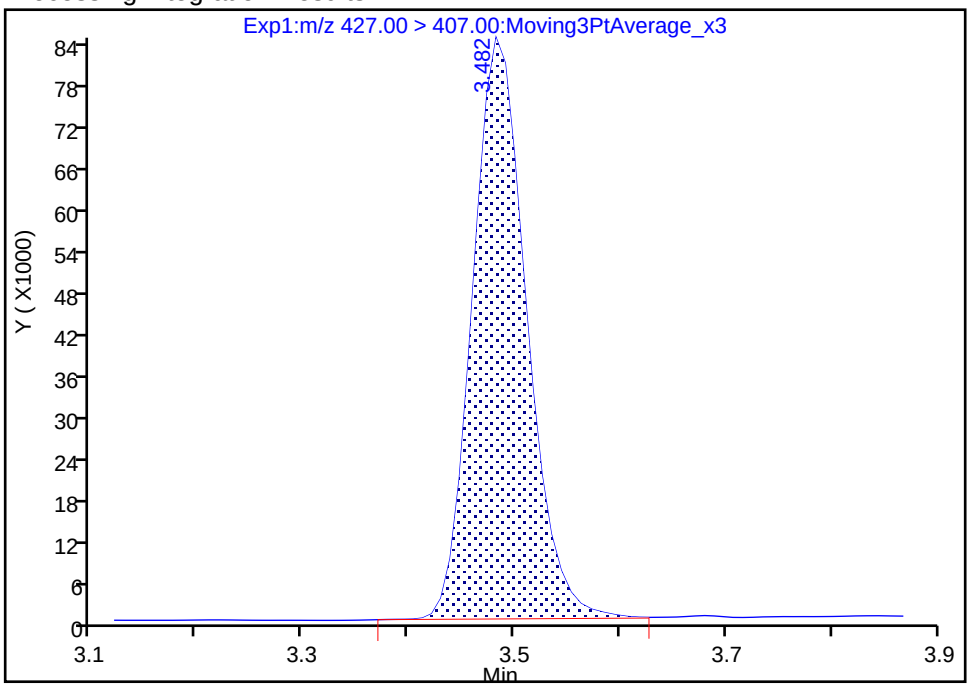
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

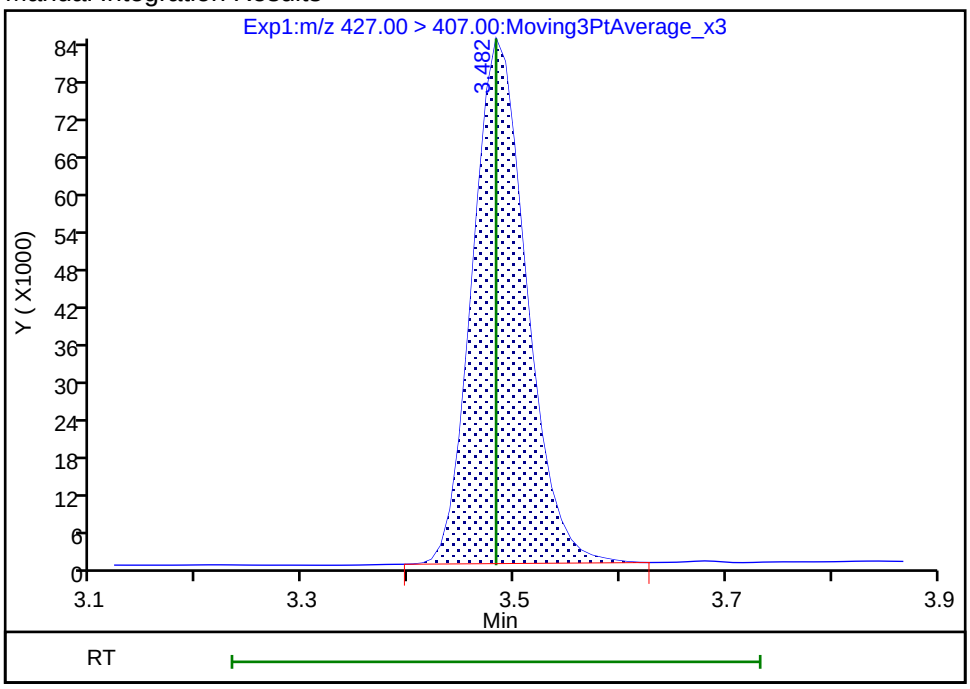
Processing Integration Results

RT: 3.48
Area: 299078
Amount: 0.918057
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 298141
Amount: 0.930597
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:55:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

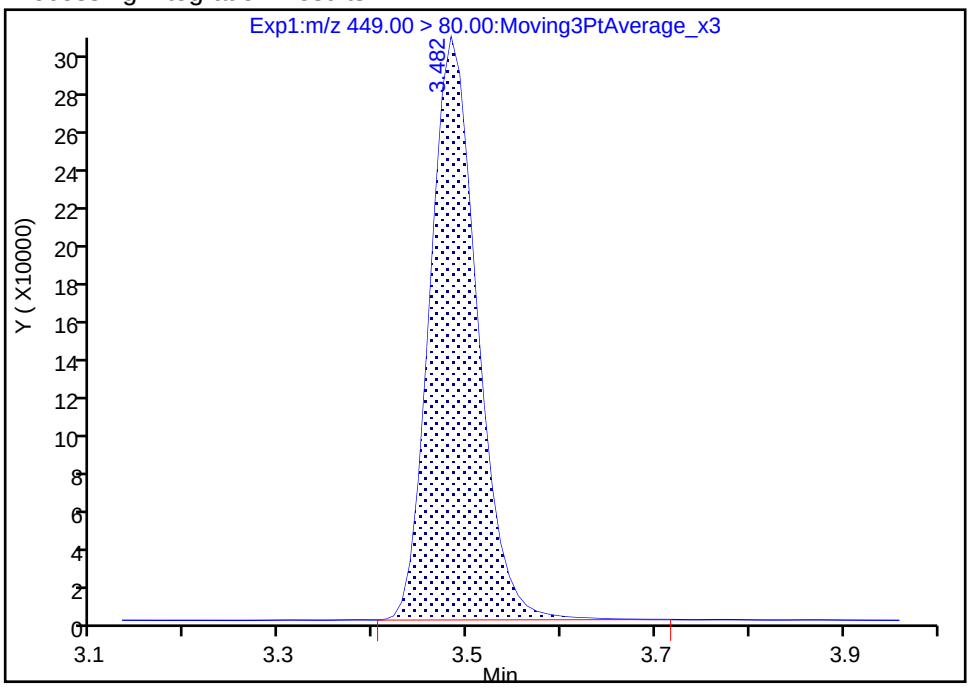
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

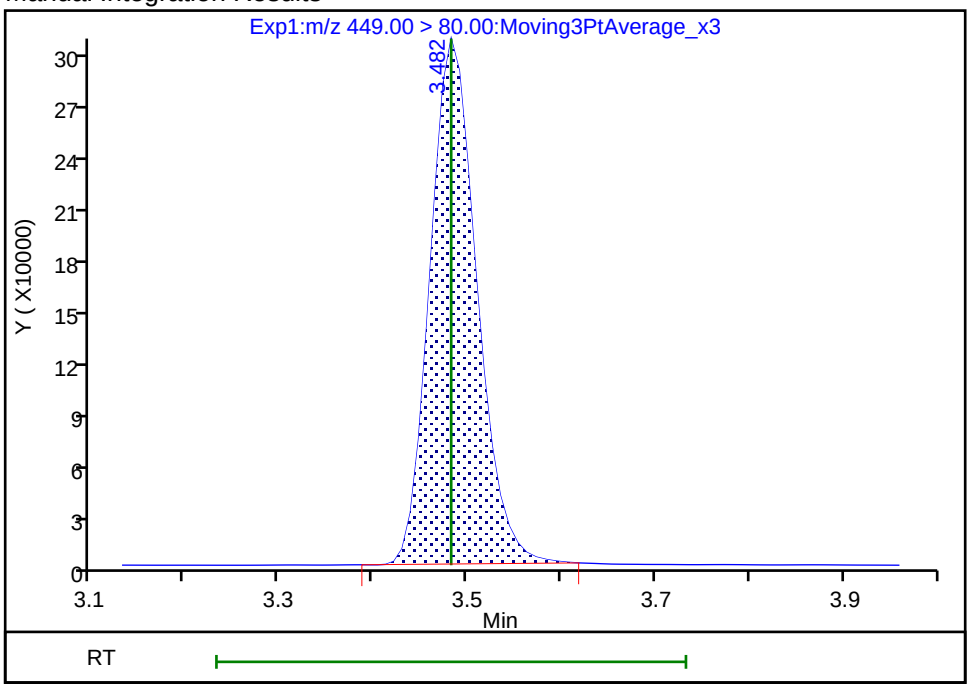
Processing Integration Results

RT: 3.48
Area: 1070923
Amount: 0.876281
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 1061112
Amount: 0.886271
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:55:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

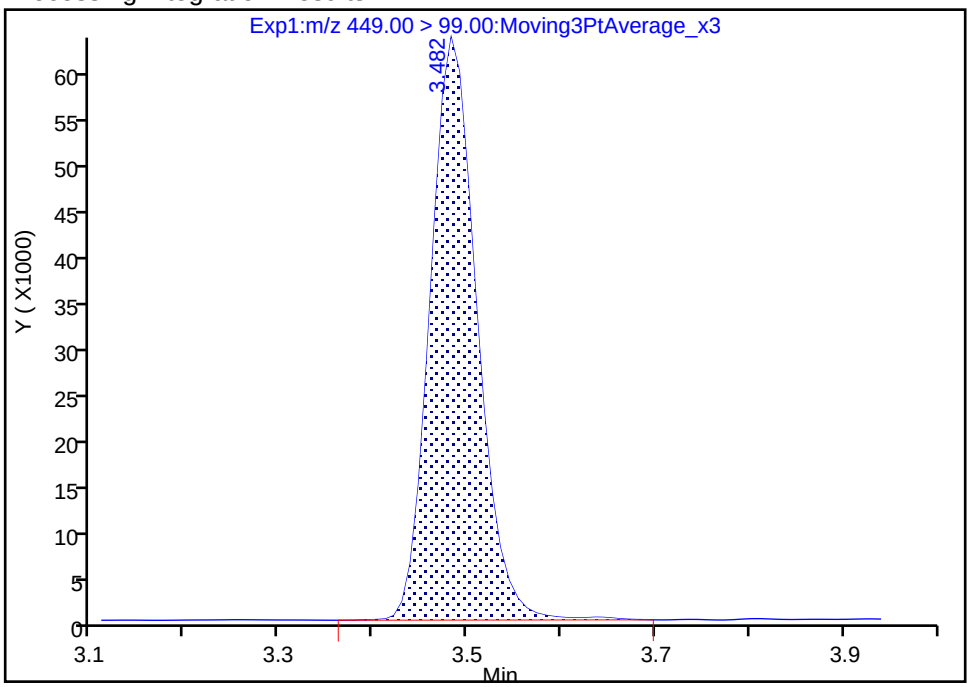
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d				
Injection Date:	05-May-2022 15:38:07	Instrument ID:	LC812		
Lims ID:	ICIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

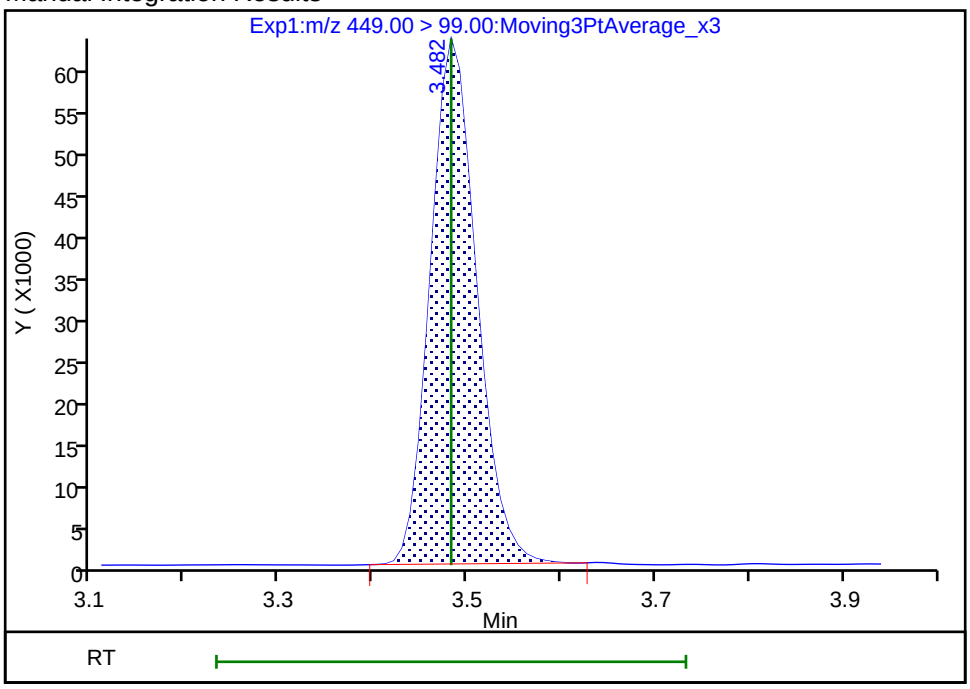
Processing Integration Results

RT: 3.48
Area: 219163
Amount: 0.876281
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 216485
Amount: 0.886271
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:55:27

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

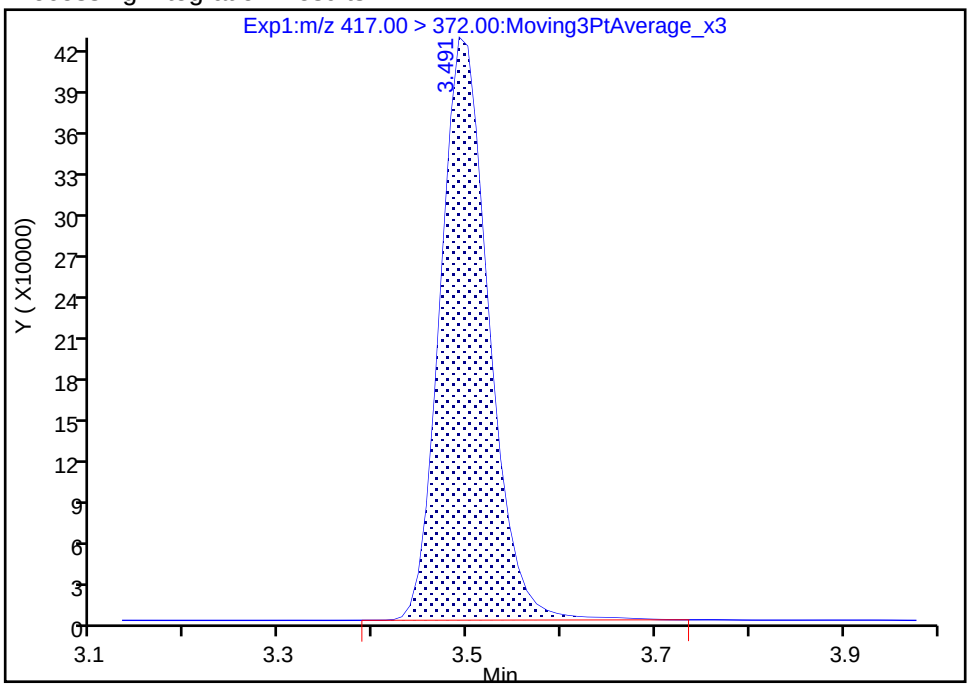
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

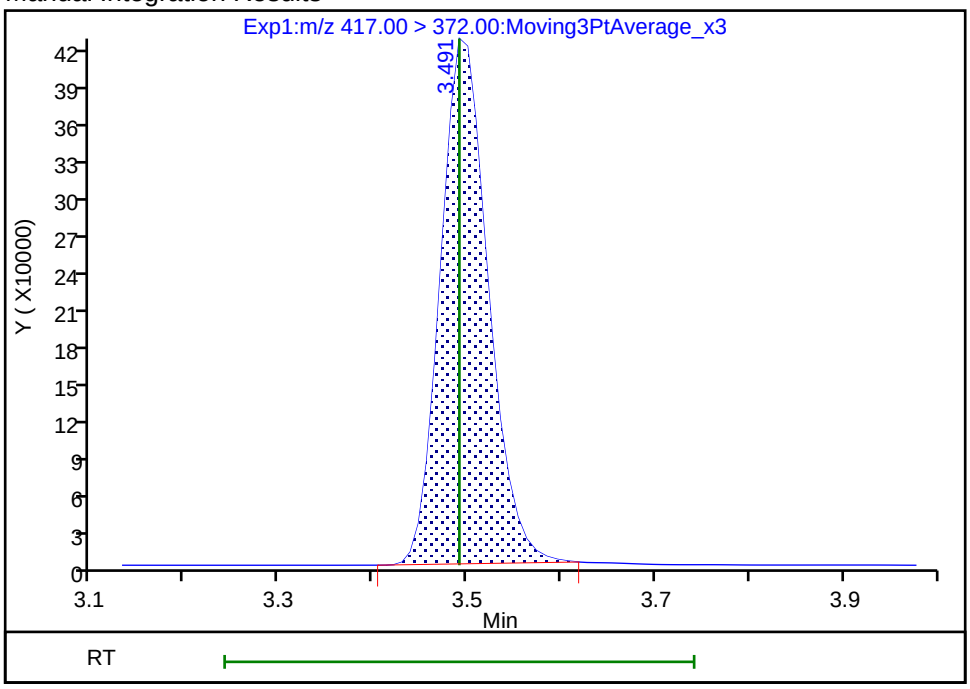
Processing Integration Results

RT: 3.49
Area: 1528841
Amount: 1.232394
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 1507252
Amount: 1.221279
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:55:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

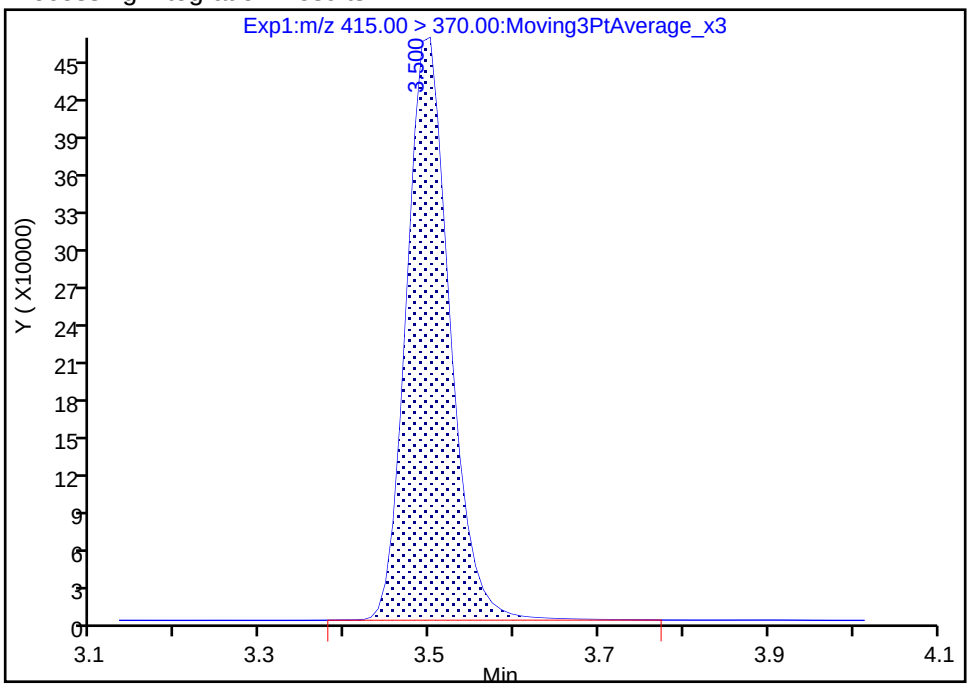
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

* 62 13C2 PFOA, CAS: STL00623

Signal: 1

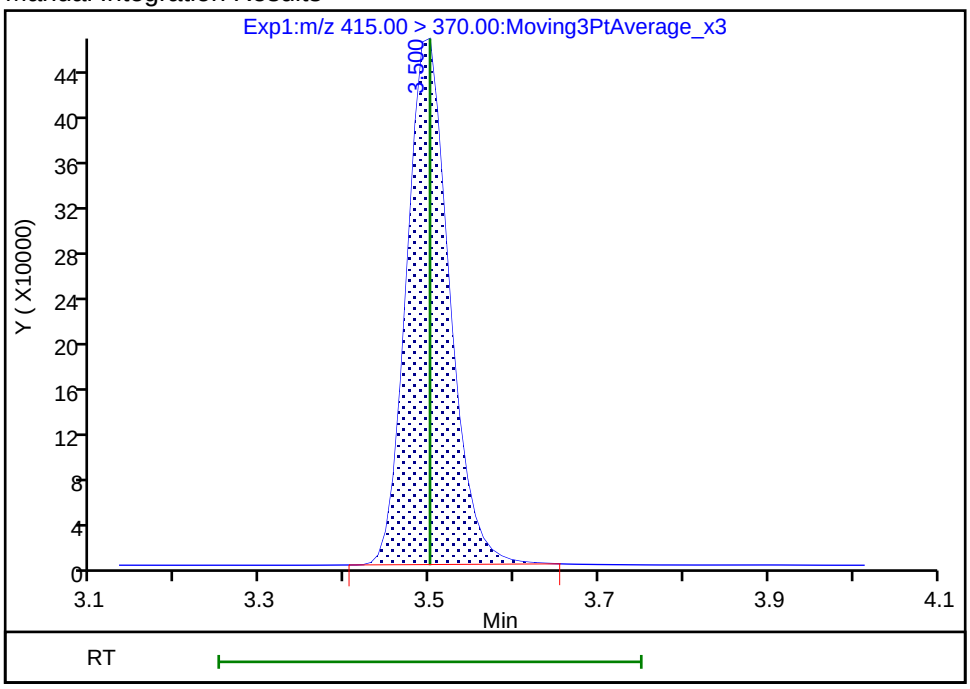
Processing Integration Results

RT: 3.50
Area: 1650231
Amount: 1.250000
Amount Units: ng/ml



Manual Integration Results

RT: 3.50
Area: 1638661
Amount: 1.250000
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:55:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

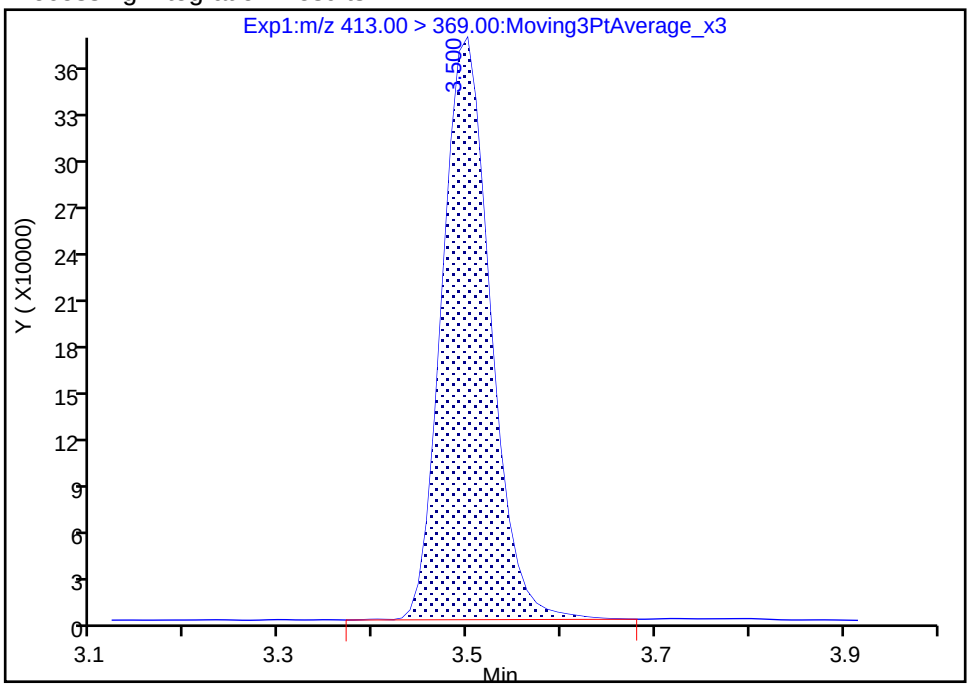
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

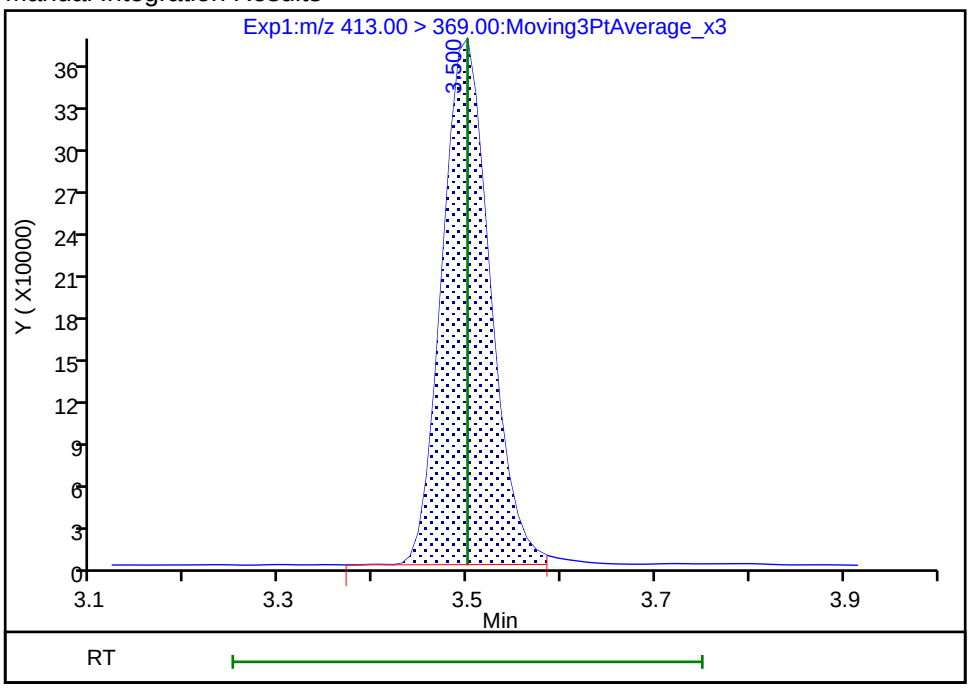
Processing Integration Results

RT: 3.50
Area: 1342298
Amount: 0.982933
Amount Units: ng/ml



Manual Integration Results

RT: 3.50
Area: 1331372
Amount: 0.985883
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:56:16
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

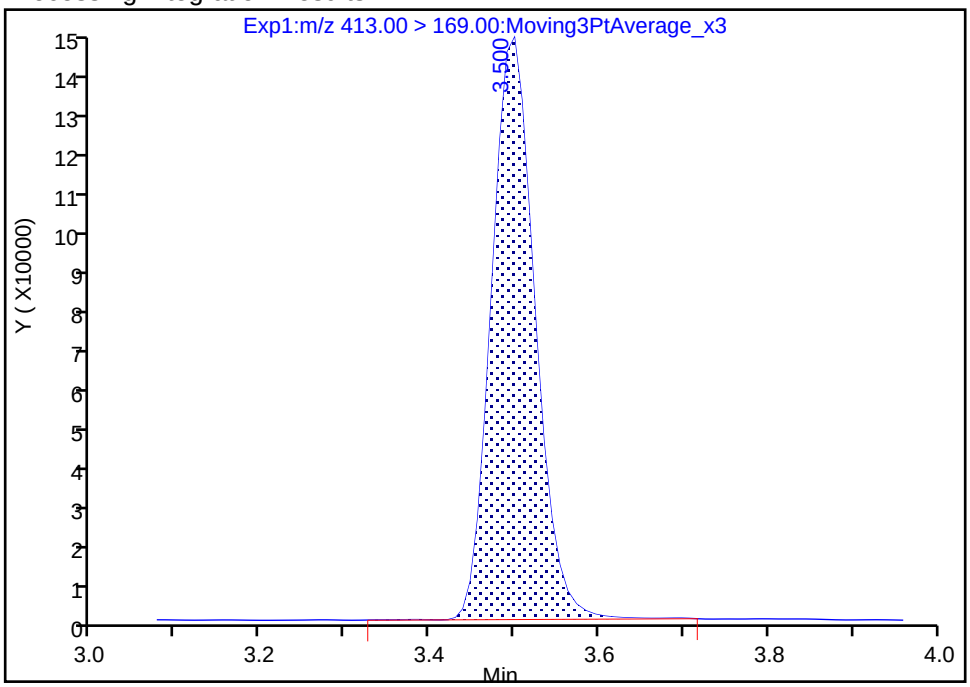
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

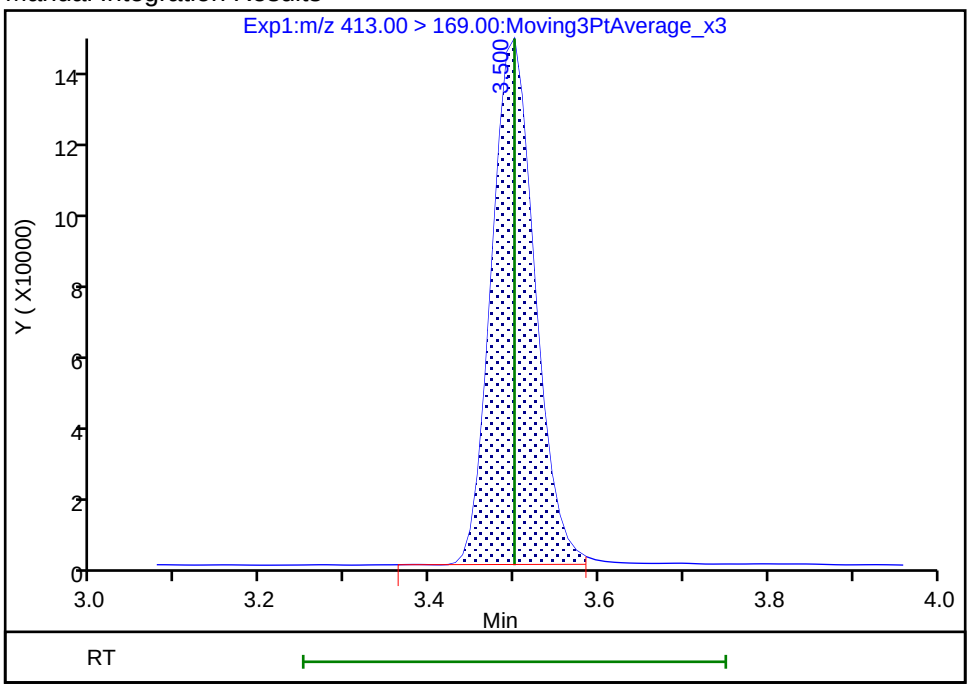
Processing Integration Results

RT: 3.50
Area: 500227
Amount: 0.982933
Amount Units: ng/ml



Manual Integration Results

RT: 3.50
Area: 496516
Amount: 0.985883
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:56:20
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

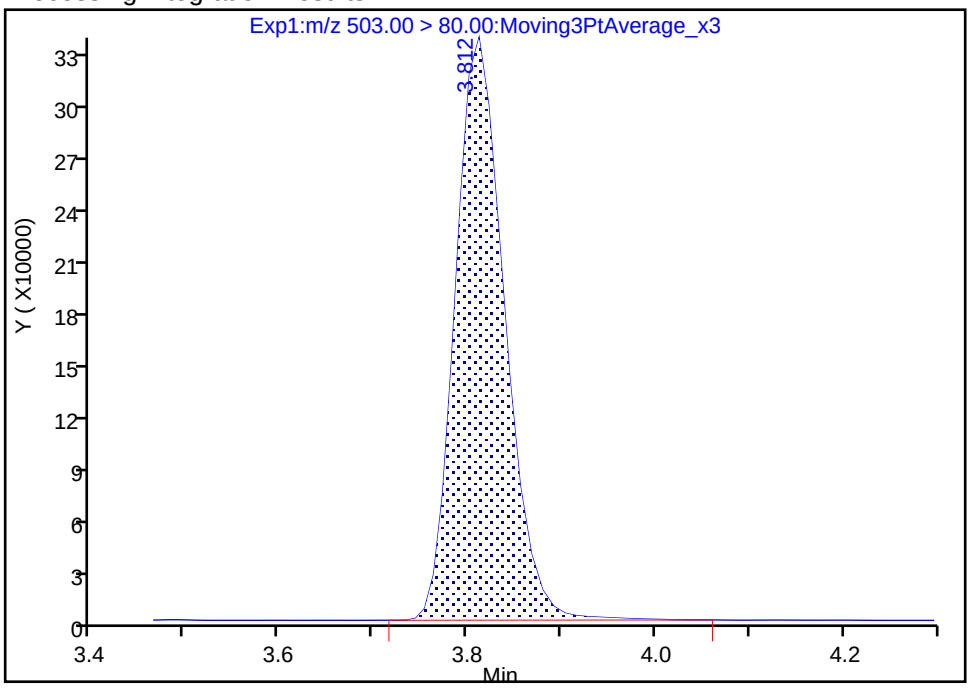
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

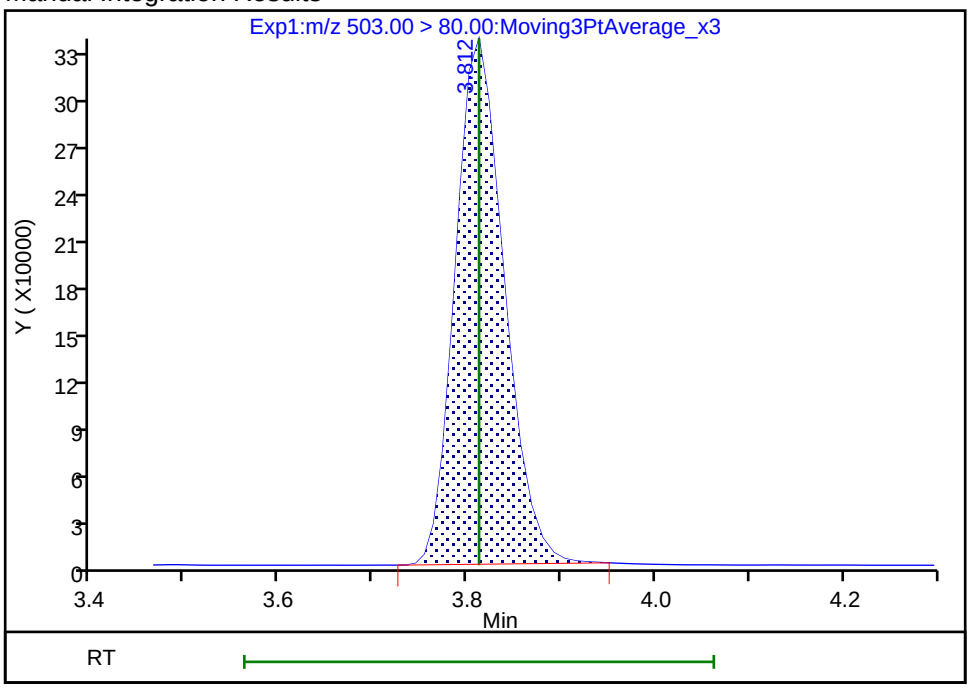
Processing Integration Results

RT: 3.81
Area: 1202074
Amount: 1.286946
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 1190325
Amount: 1.255900
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:56:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

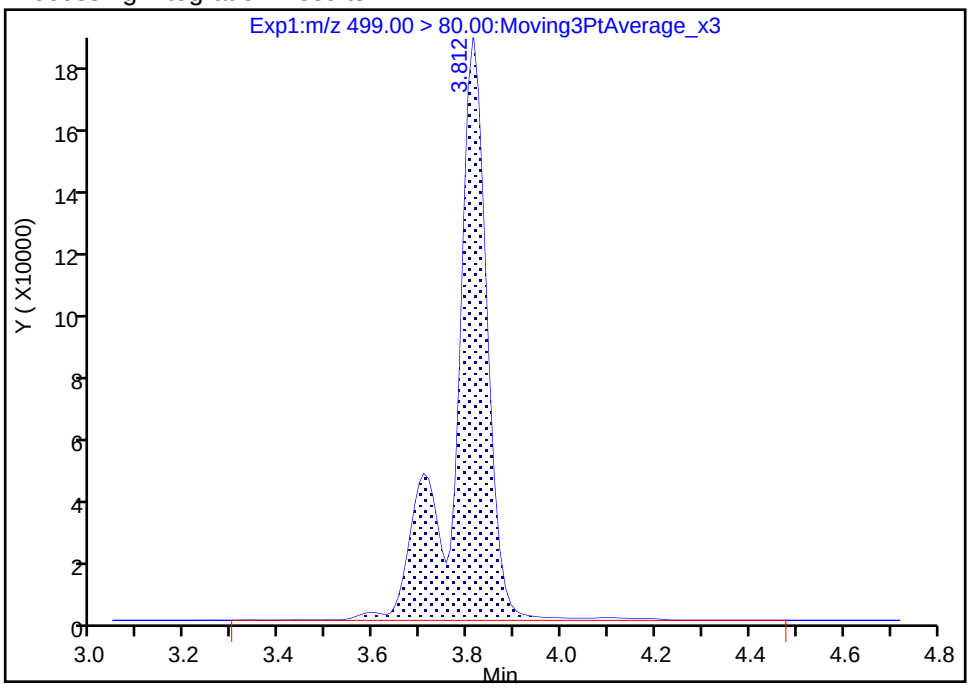
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

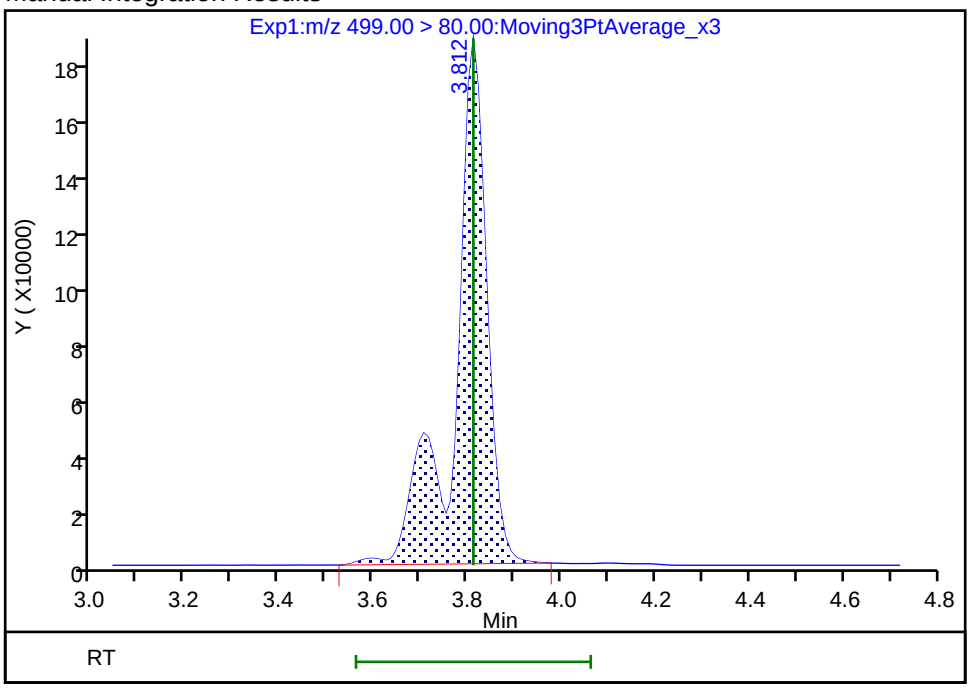
Processing Integration Results

RT: 3.81
Area: 923687
Amount: 0.878168
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 902663
Amount: 0.848602
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:56:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d

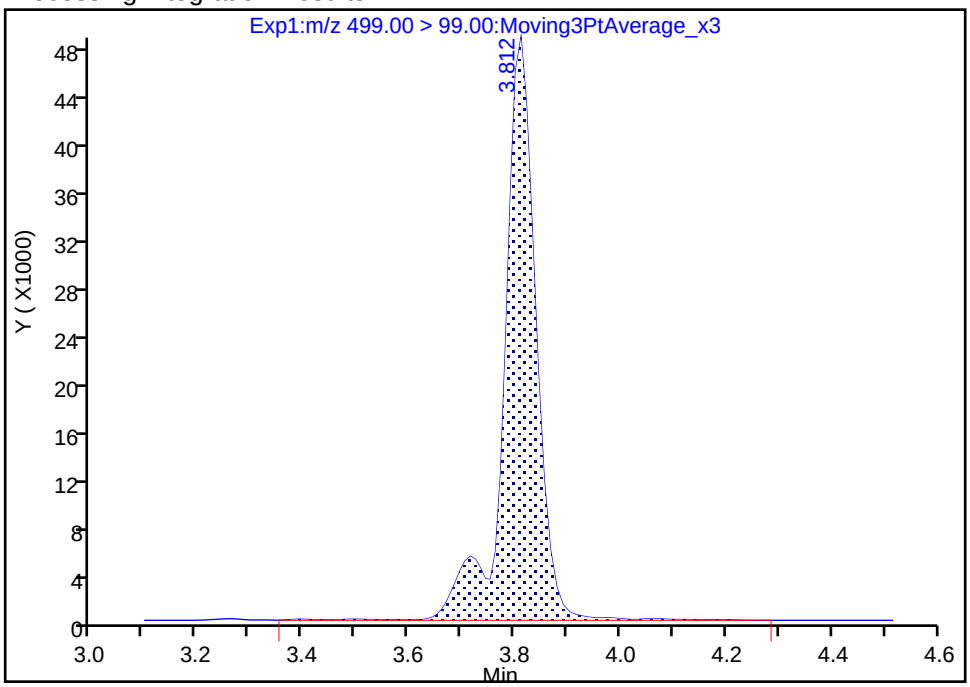
Injection Date:	05-May-2022 15:38:07	Instrument ID:	LC812		
Lims ID:	ICIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

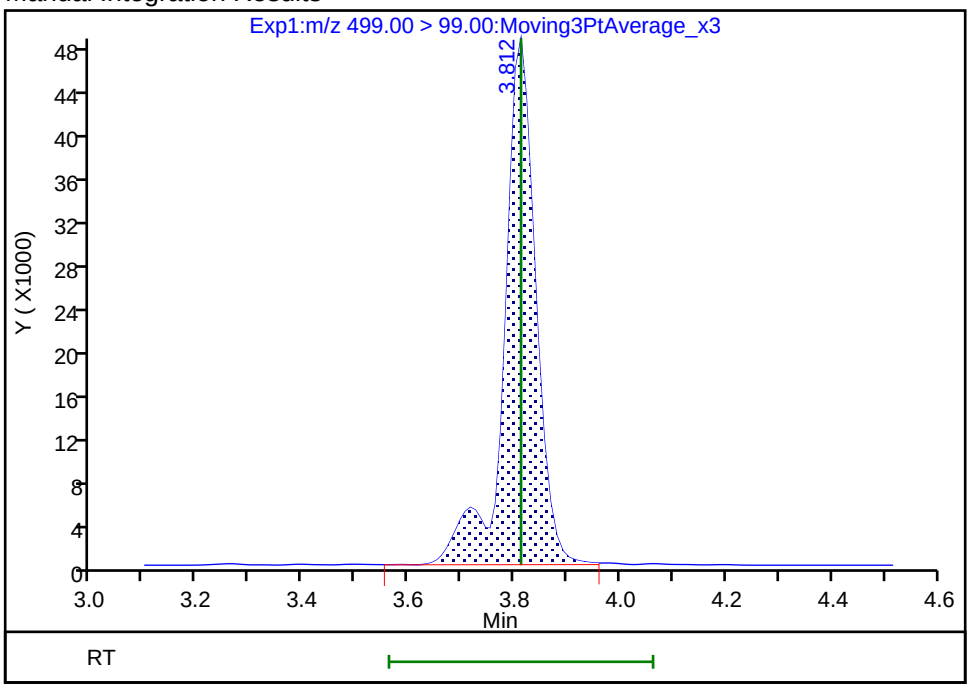
Processing Integration Results

RT: 3.81
Area: 205051
Amount: 0.878168
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 201884
Amount: 0.848602
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:56:55

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

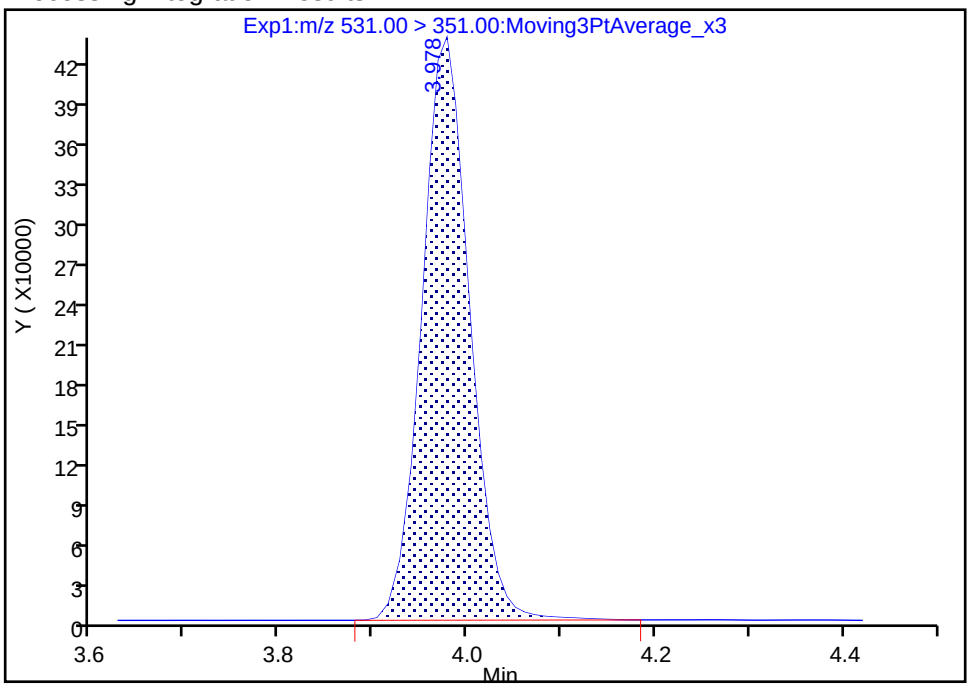
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

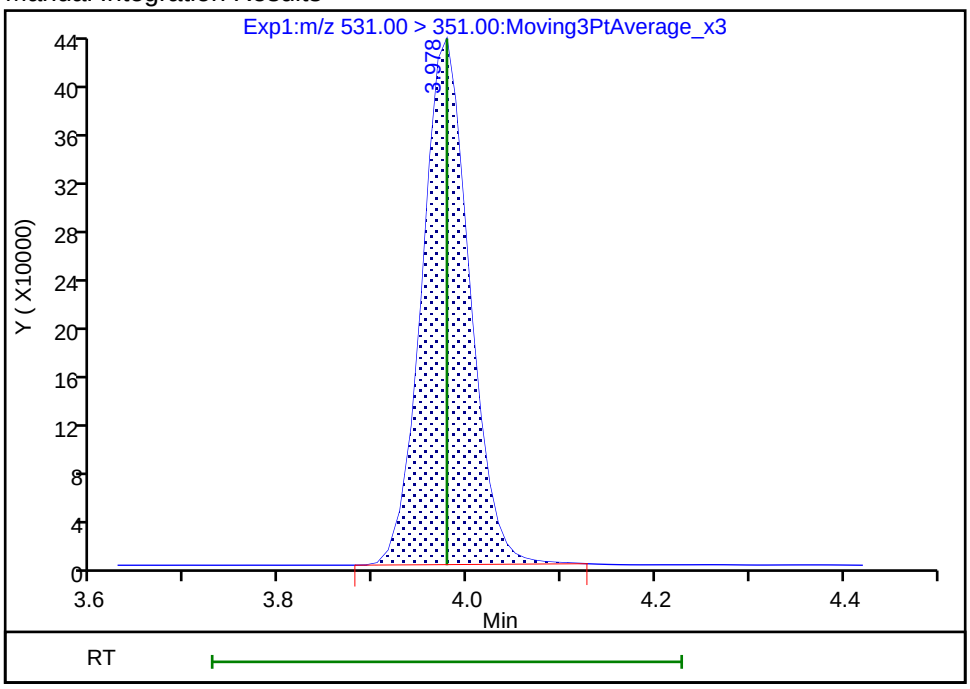
Processing Integration Results

RT: 3.98
Area: 1544746
Amount: 0.864353
Amount Units: ng/ml



Manual Integration Results

RT: 3.98
Area: 1536250
Amount: 0.873960
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:57:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

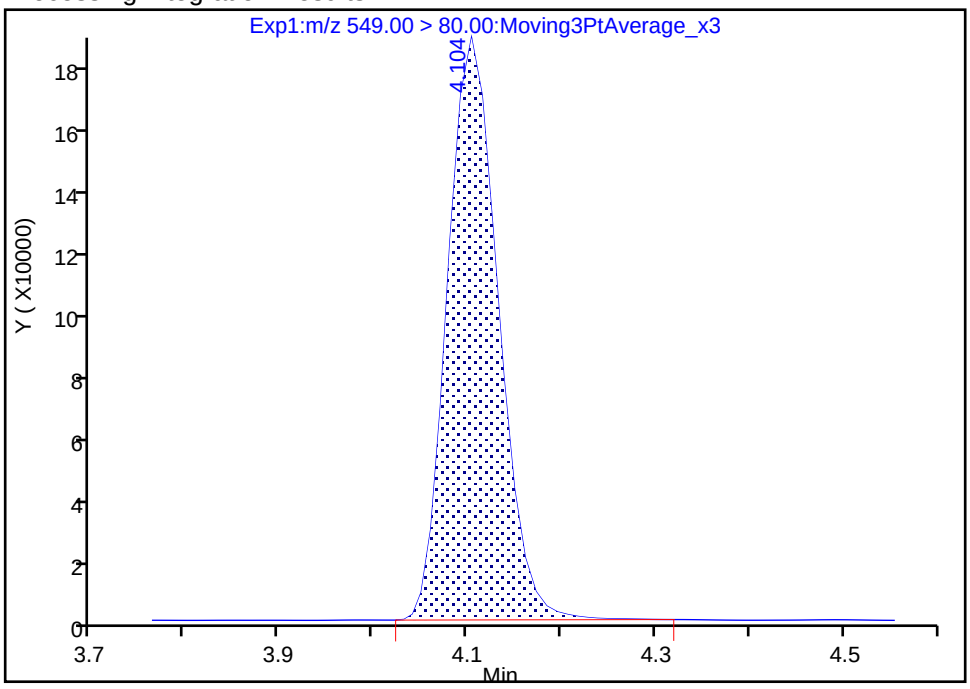
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

68 Perfluorononanesulfonic acid, CAS: 68259-12-1

Signal: 1

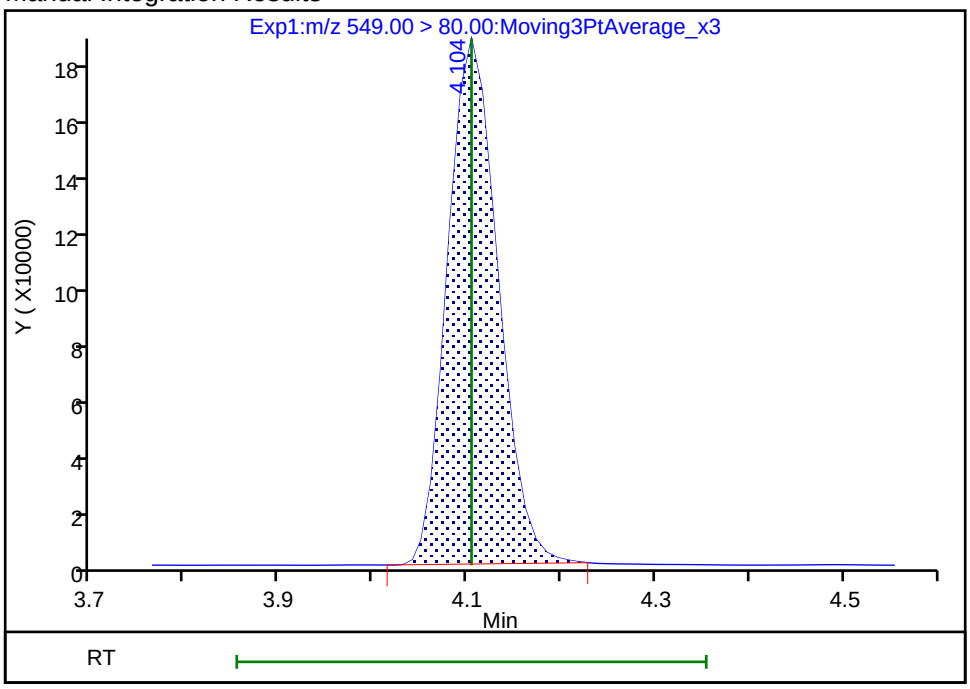
Processing Integration Results

RT: 4.10
Area: 707241
Amount: 0.860118
Amount Units: ng/ml



Manual Integration Results

RT: 4.10
Area: 701542
Amount: 0.870780
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:57:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

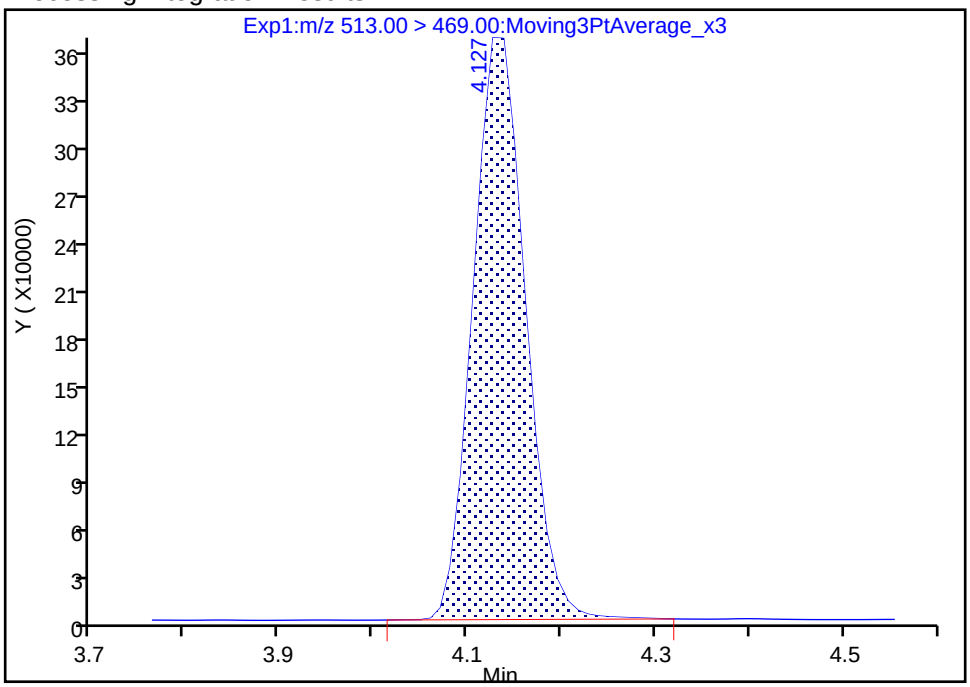
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

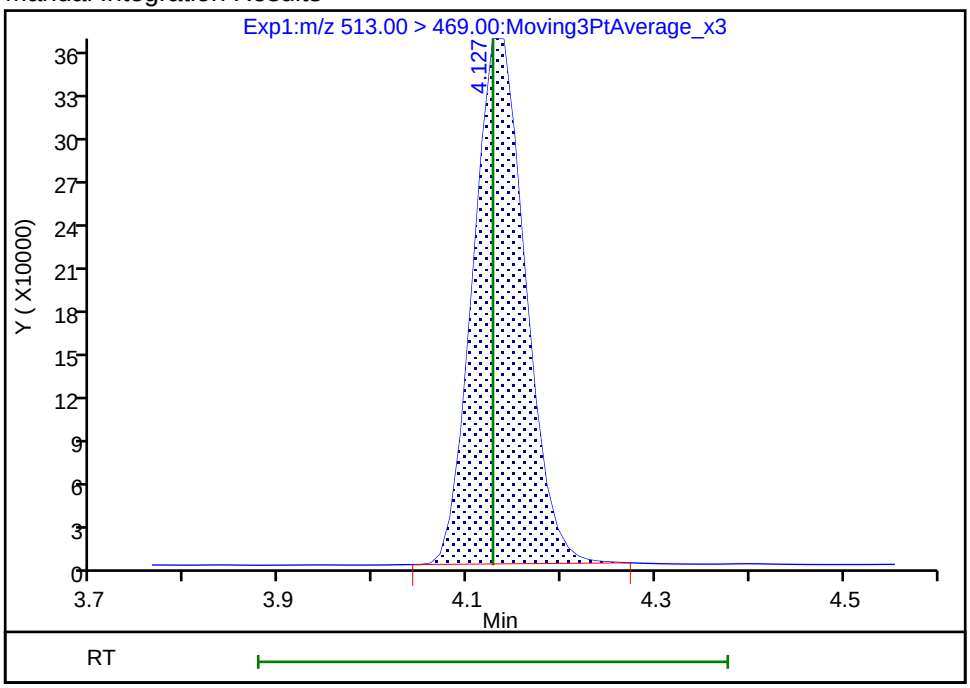
Processing Integration Results

RT: 4.13
Area: 1397388
Amount: 0.956576
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 1389045
Amount: 0.956067
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:57:16
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

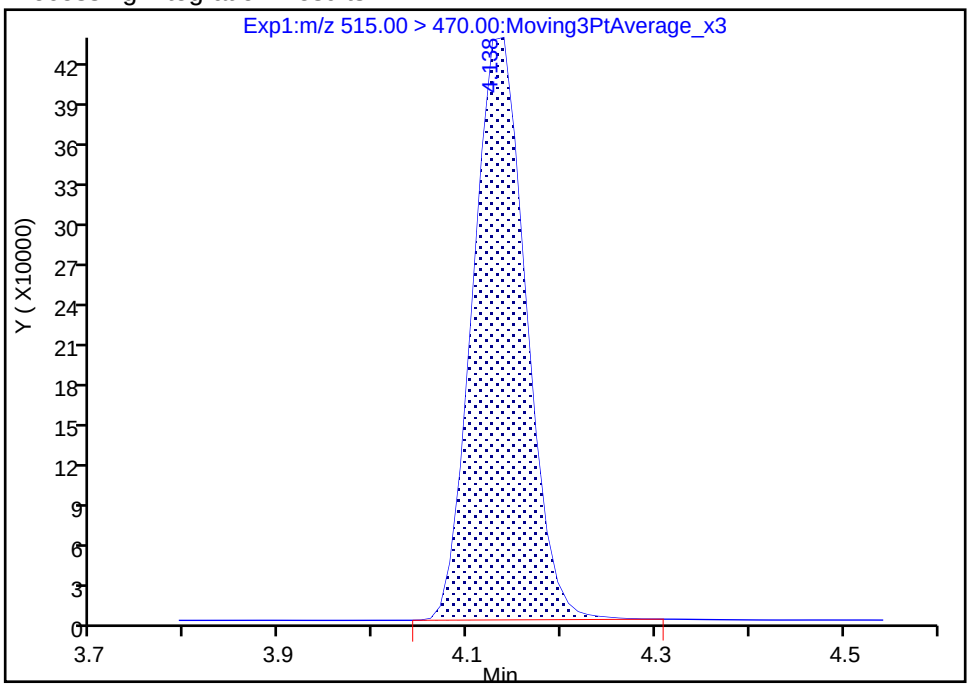
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

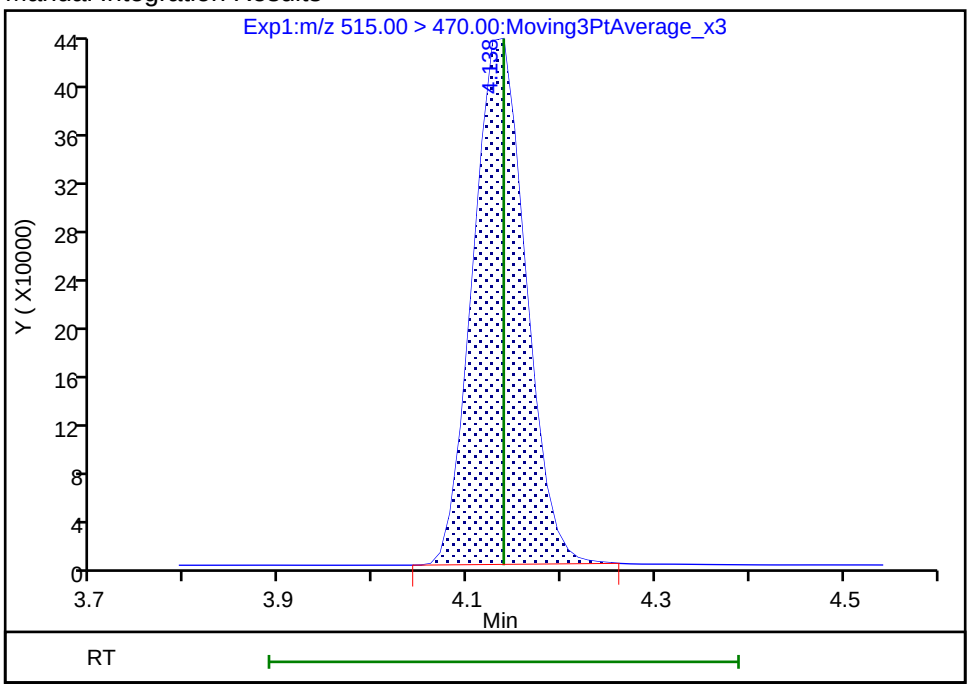
Processing Integration Results

RT: 4.14
Area: 1710729
Amount: 1.339136
Amount Units: ng/ml



Manual Integration Results

RT: 4.14
Area: 1704667
Amount: 1.320104
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:57:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

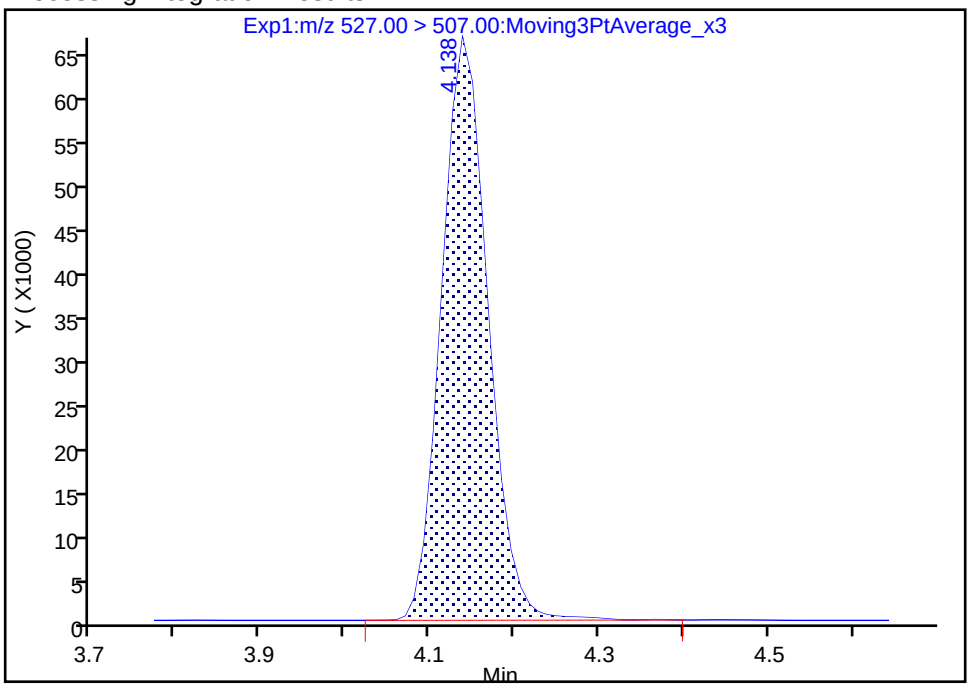
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

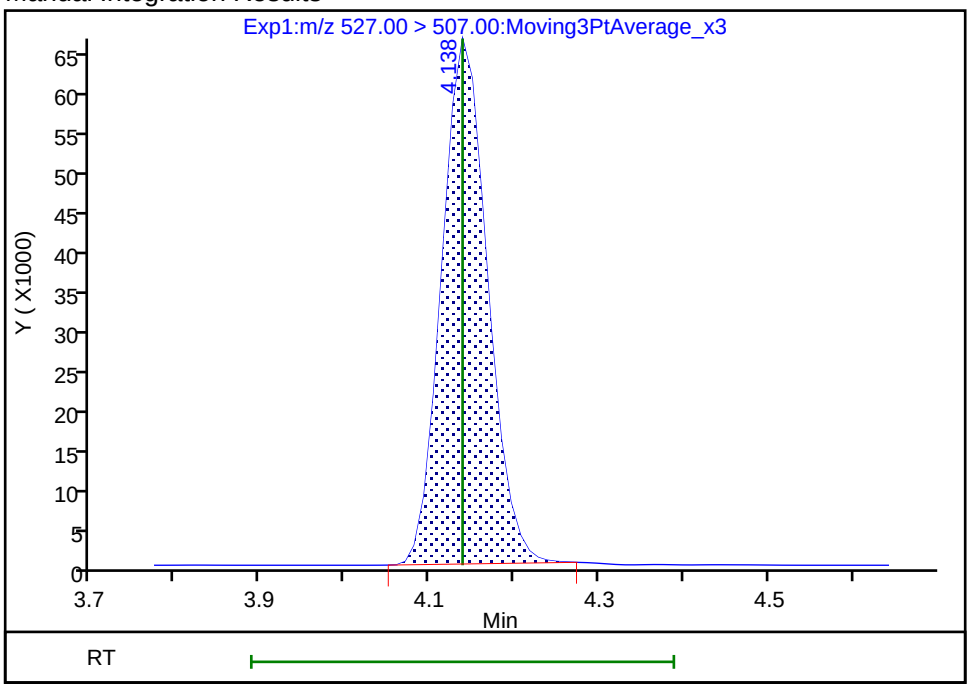
Processing Integration Results

RT: 4.14
Area: 253609
Amount: 0.900878
Amount Units: ng/ml



Manual Integration Results

RT: 4.14
Area: 250441
Amount: 0.901071
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:57:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

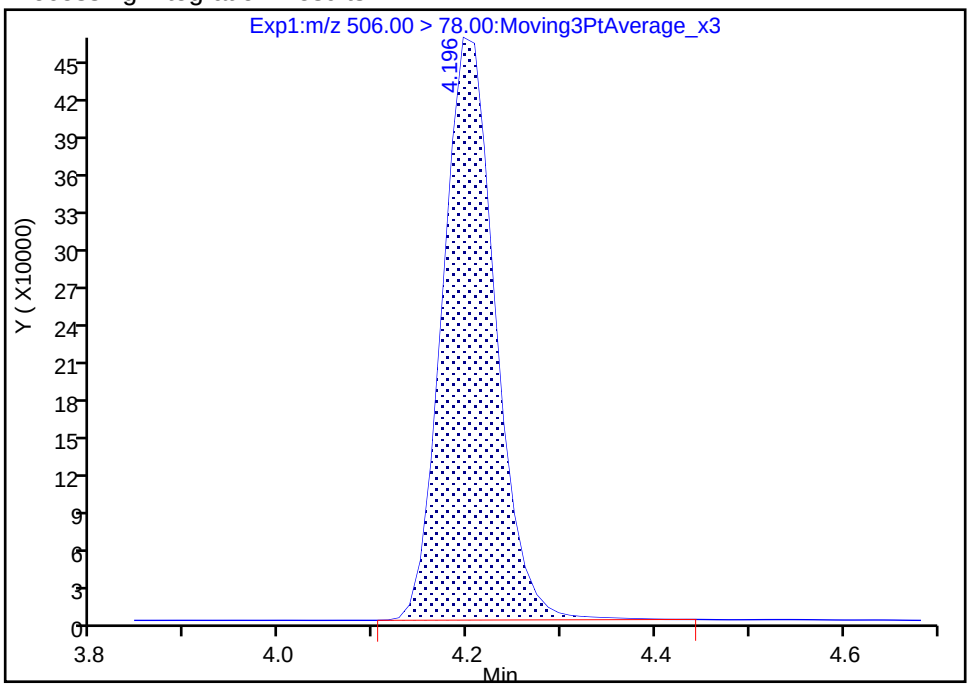
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

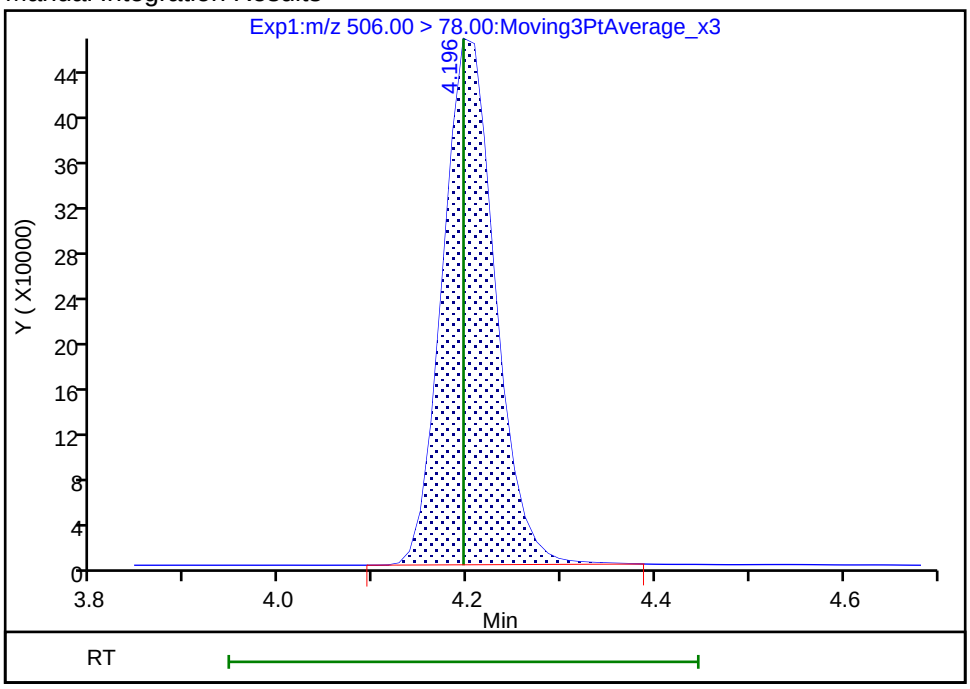
Processing Integration Results

RT: 4.20
Area: 1819964
Amount: 1.273671
Amount Units: ng/ml



Manual Integration Results

RT: 4.20
Area: 1815194
Amount: 1.277686
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:57:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

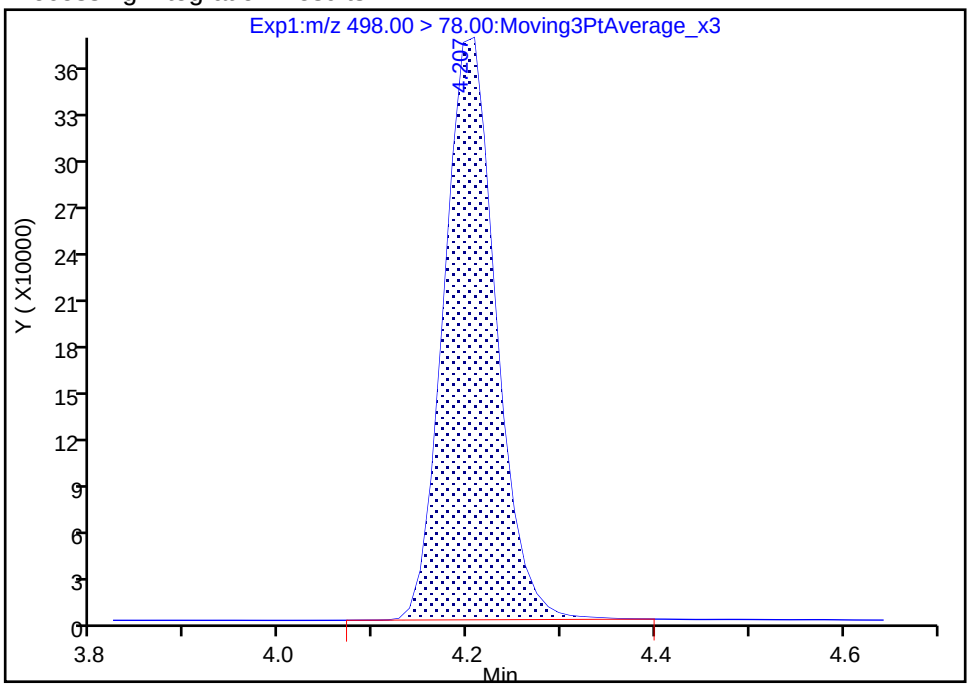
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

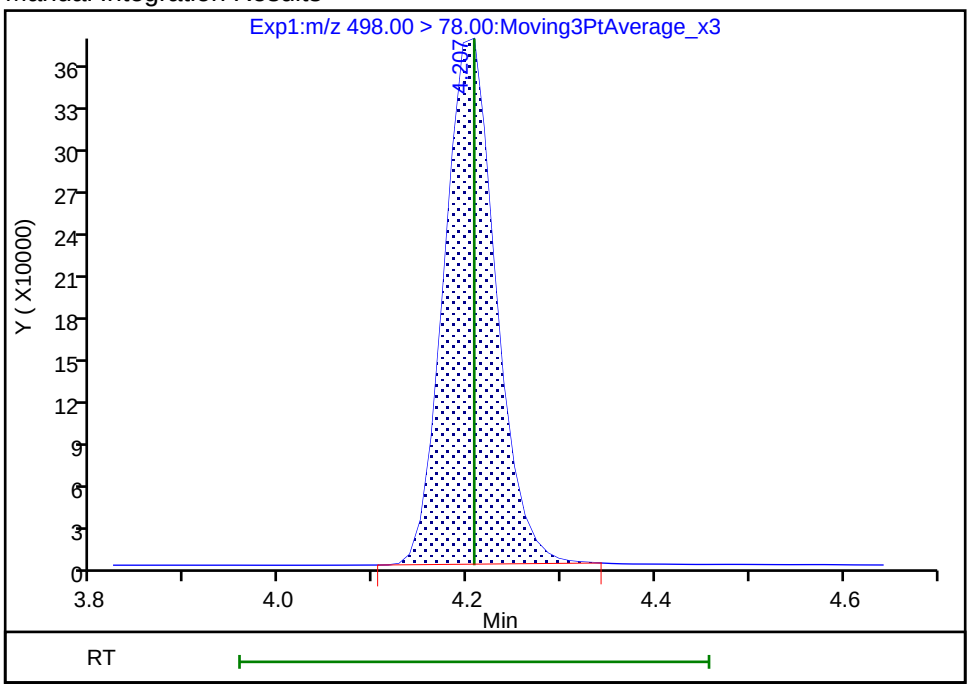
Processing Integration Results

RT: 4.21
Area: 1416065
Amount: 0.959644
Amount Units: ng/ml



Manual Integration Results

RT: 4.21
Area: 1408577
Amount: 0.955922
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:57:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

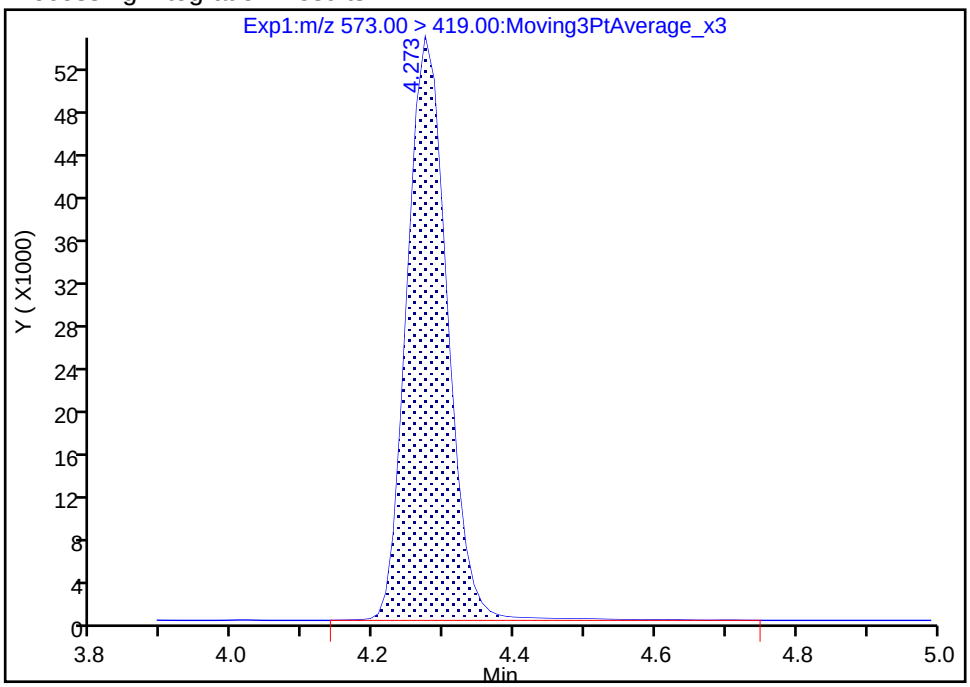
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

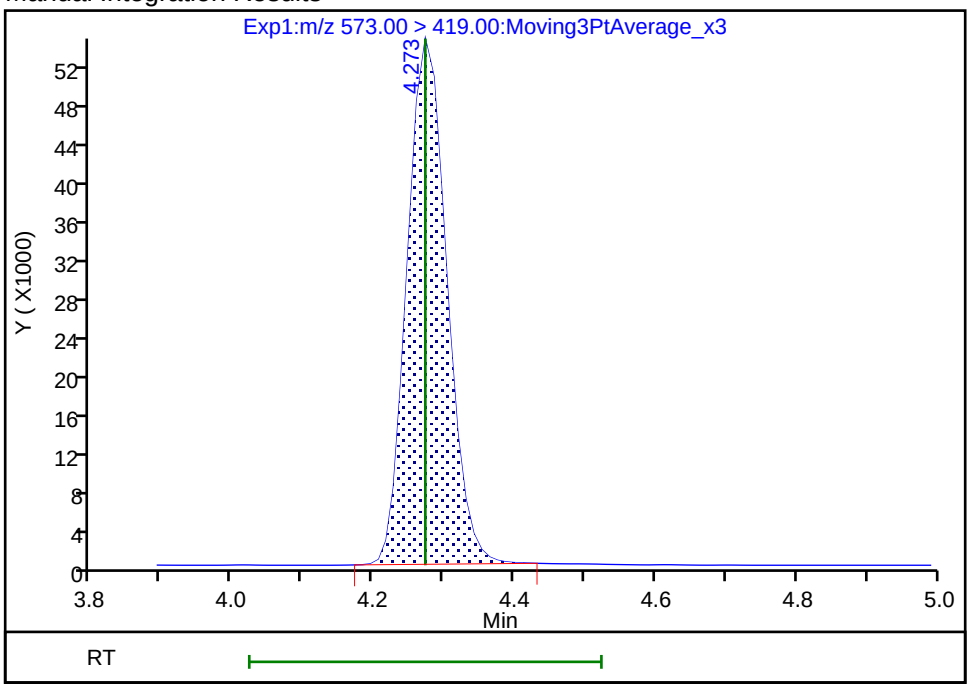
Processing Integration Results

RT: 4.27
Area: 215851
Amount: 1.257294
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 212716
Amount: 1.241035
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:57:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

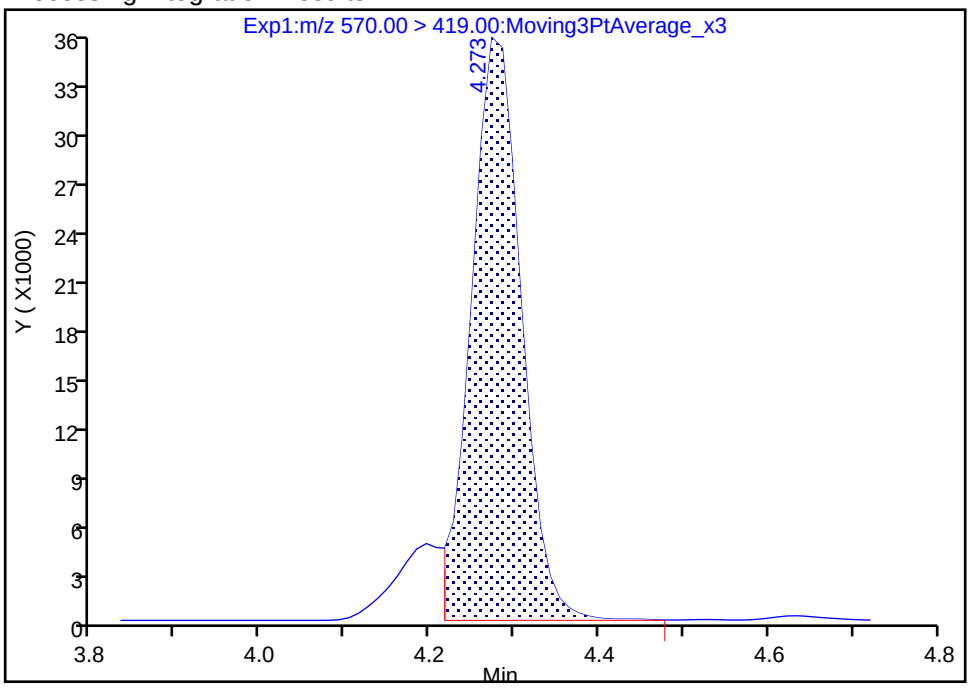
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

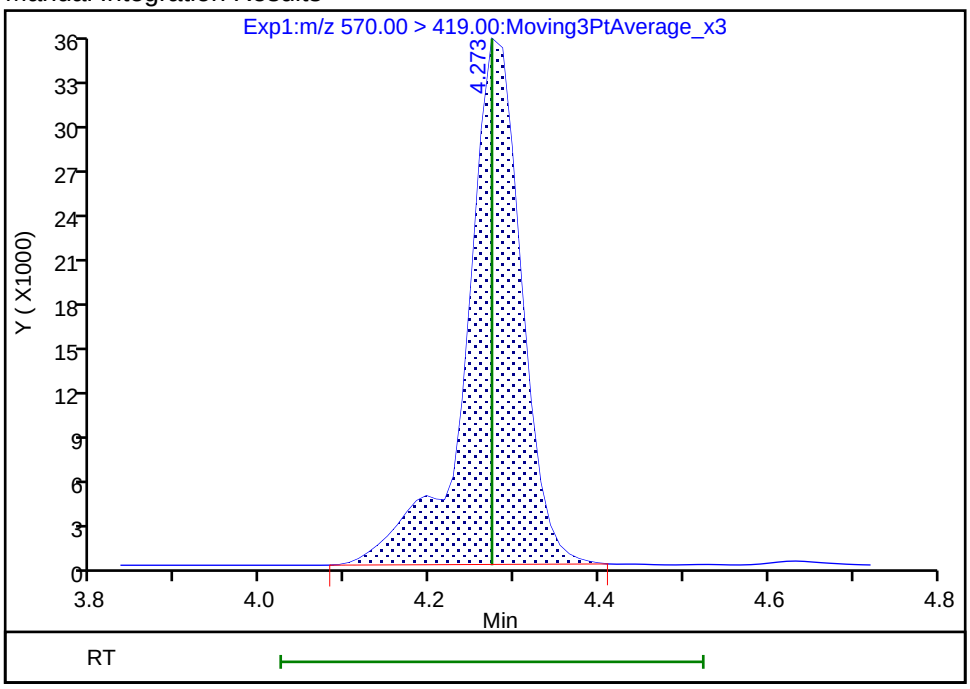
Processing Integration Results

RT: 4.27
Area: 143506
Amount: 0.986149
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 160272
Amount: 1.035628
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:57:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

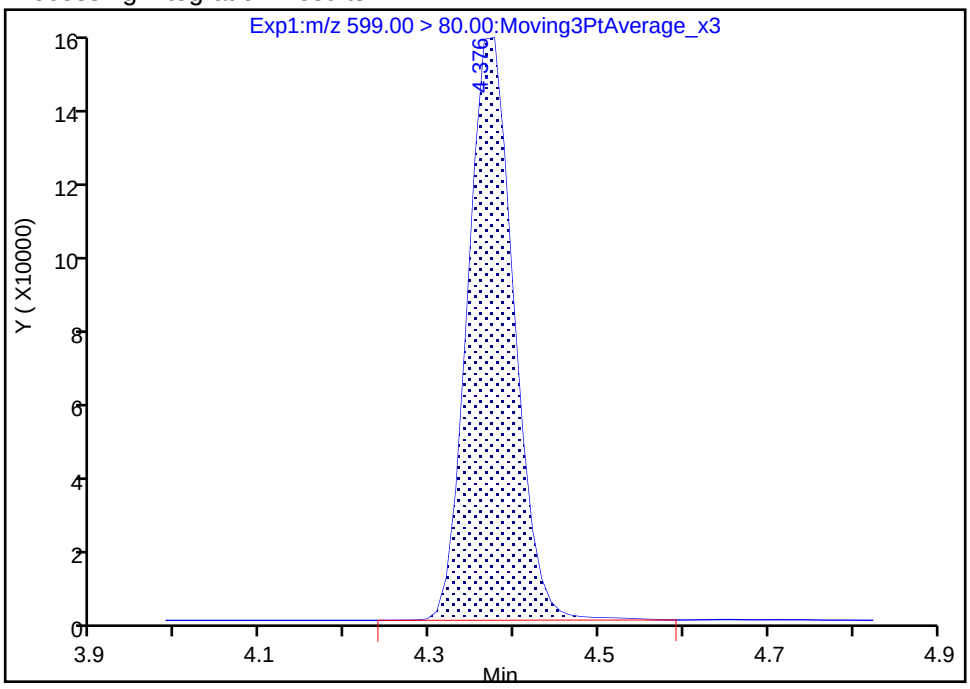
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

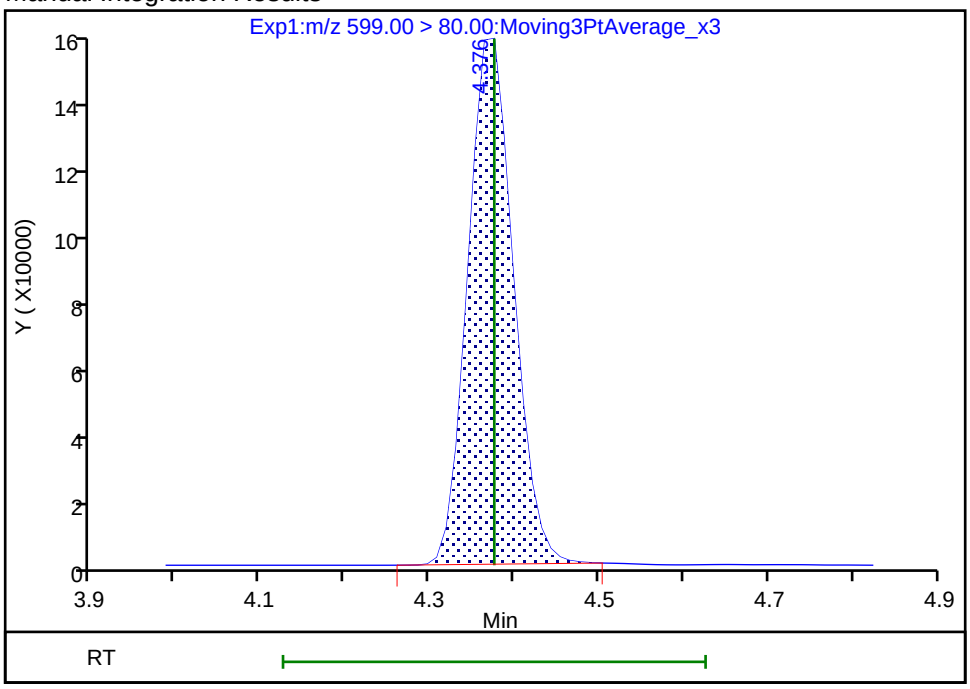
Processing Integration Results

RT: 4.38
Area: 568376
Amount: 0.907157
Amount Units: ng/ml



Manual Integration Results

RT: 4.38
Area: 562978
Amount: 0.916372
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:58:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

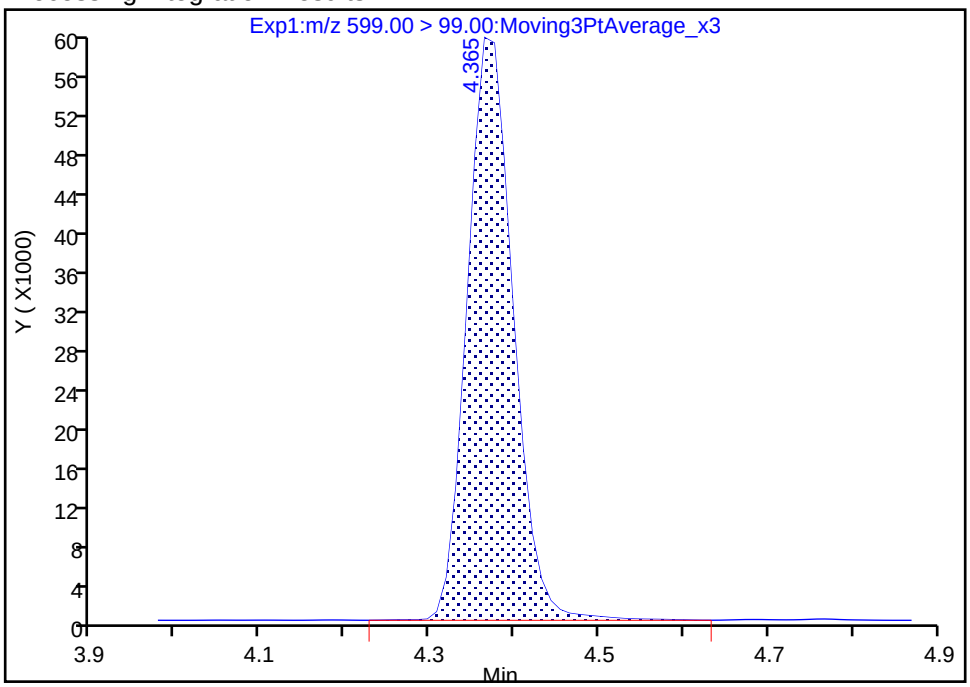
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d				
Injection Date:	05-May-2022 15:38:07	Instrument ID:	LC812		
Lims ID:	ICIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

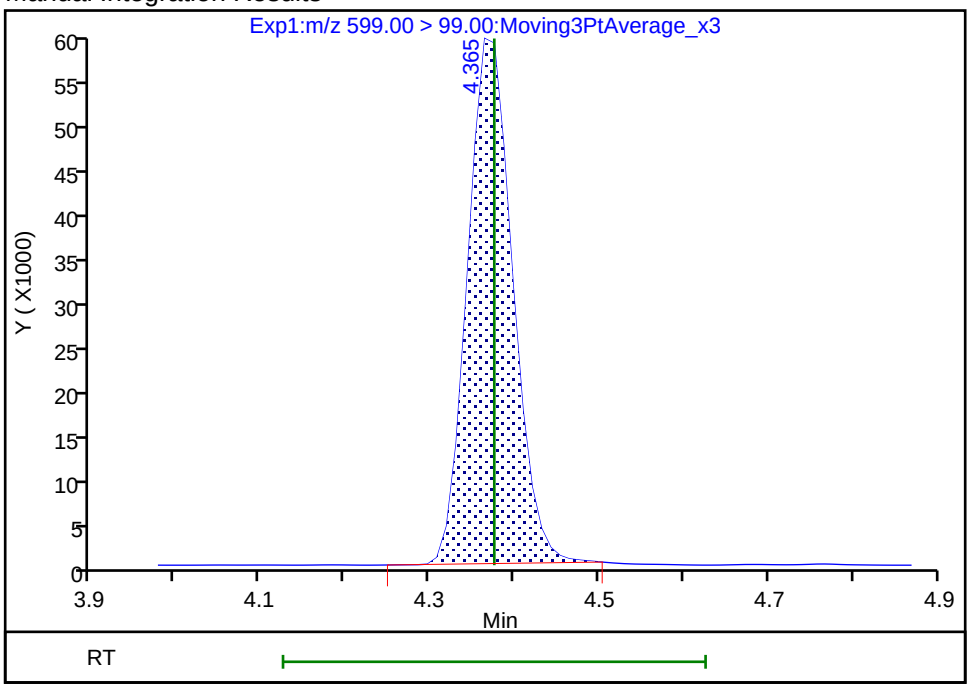
Processing Integration Results

RT: 4.36
Area: 223551
Amount: 0.907157
Amount Units: ng/ml



Manual Integration Results

RT: 4.36
Area: 219826
Amount: 0.916372
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:58:06

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

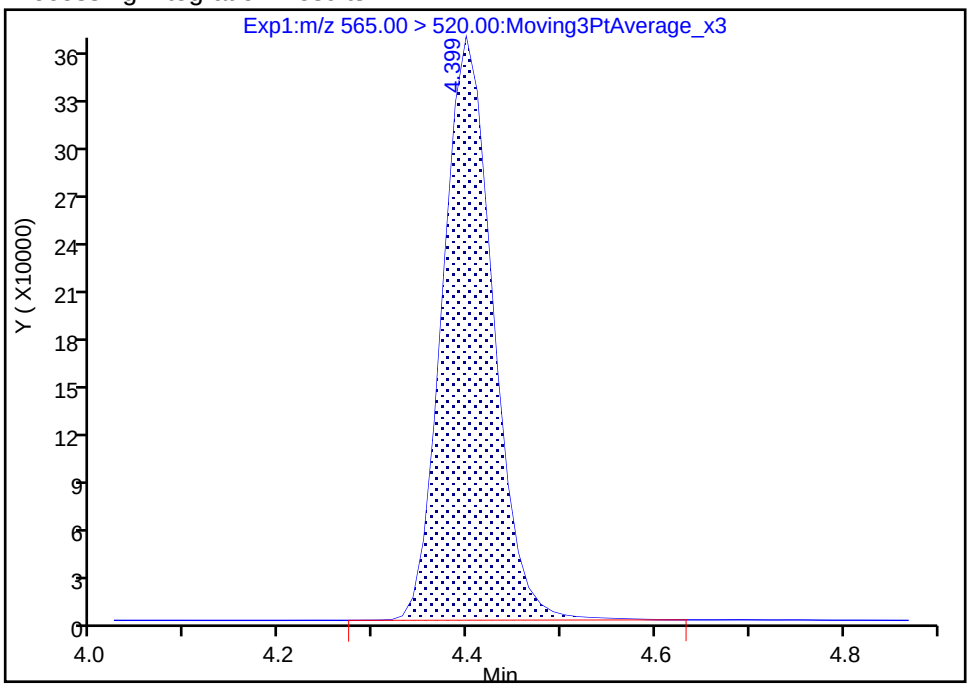
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

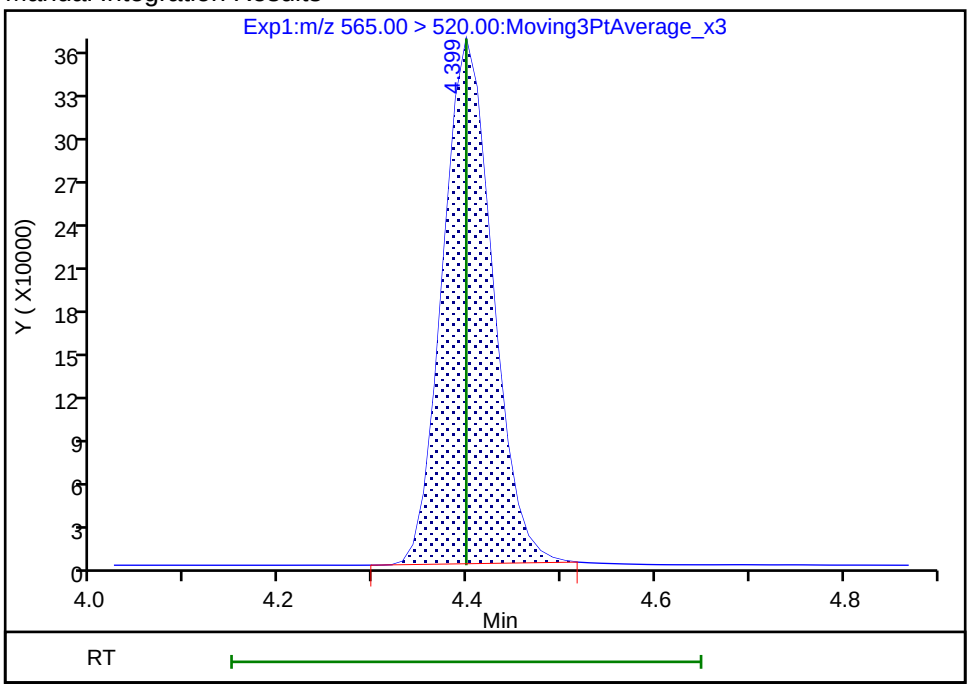
Processing Integration Results

RT: 4.40
Area: 1343051
Amount: 1.294580
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 1325739
Amount: 1.278702
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:58:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

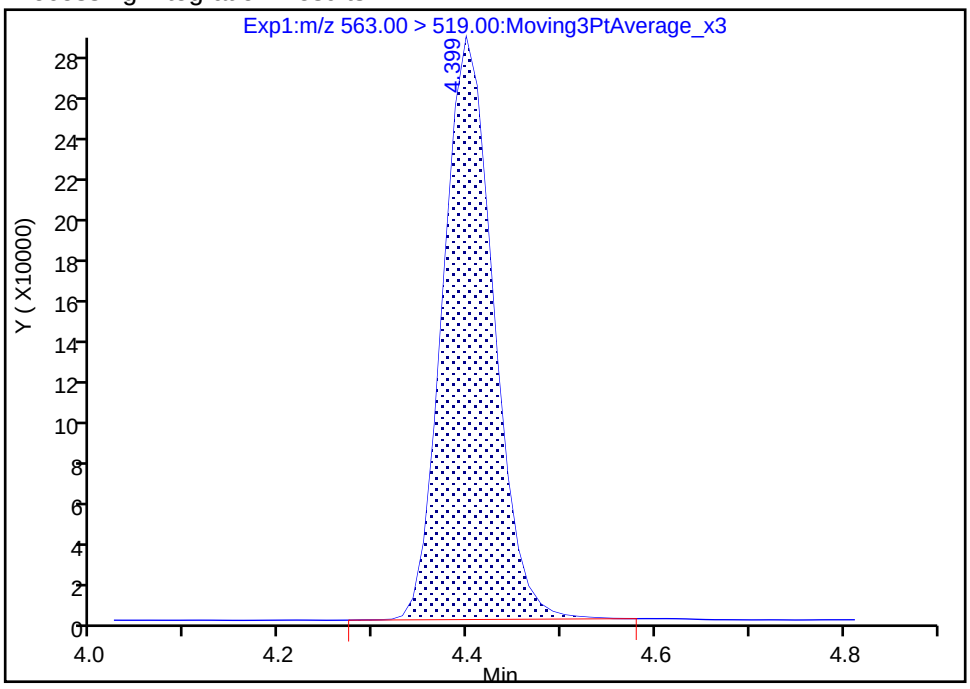
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

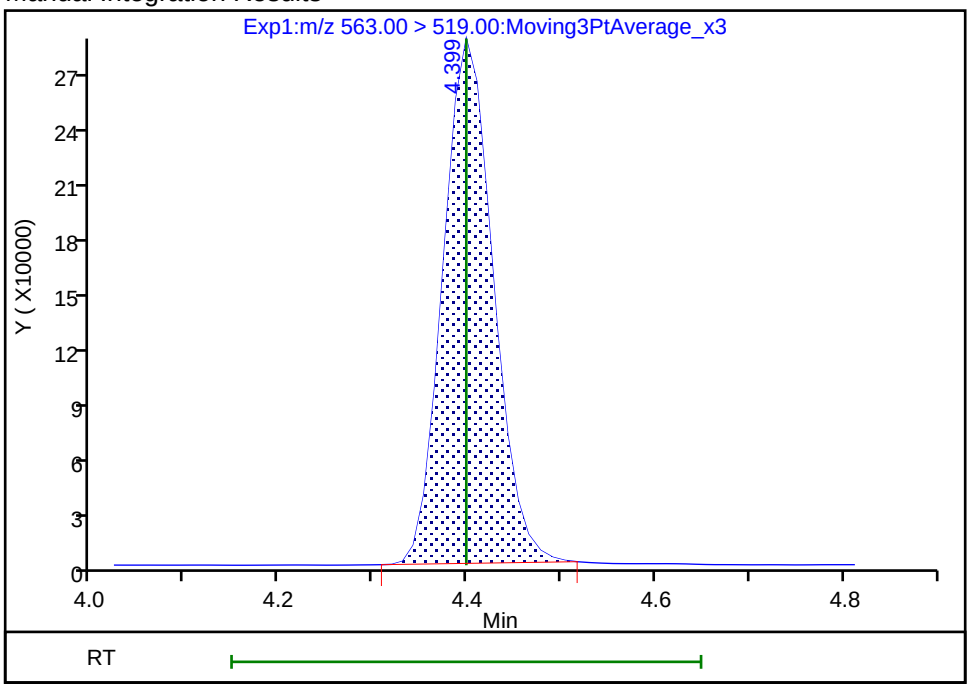
Processing Integration Results

RT: 4.40
Area: 1079993
Amount: 0.972844
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 1069785
Amount: 0.978745
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:58:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

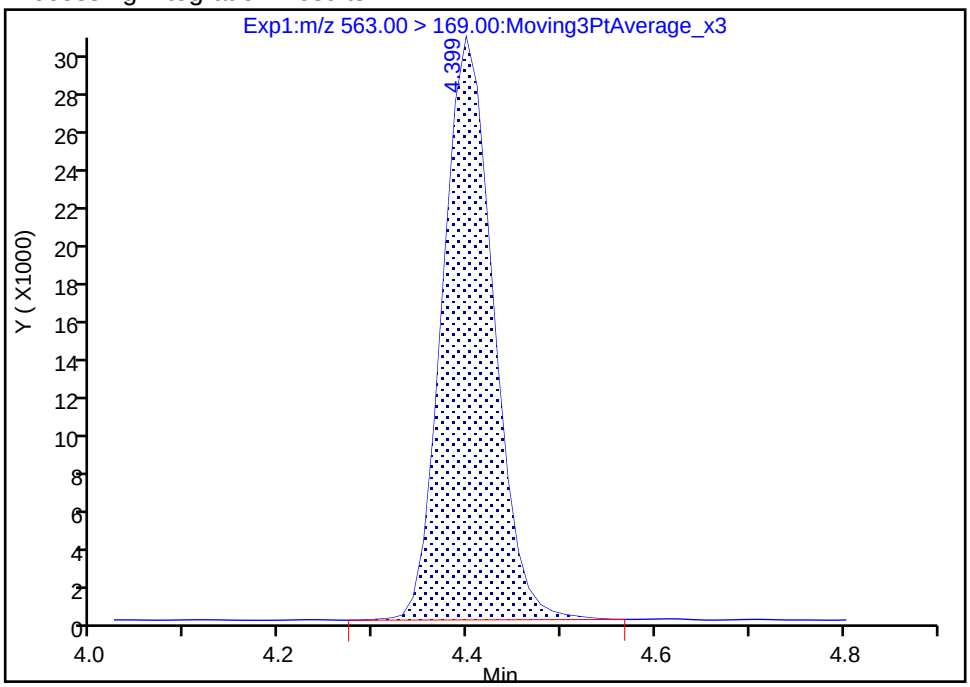
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d				
Injection Date:	05-May-2022 15:38:07	Instrument ID:	LC812		
Lims ID:	ICIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

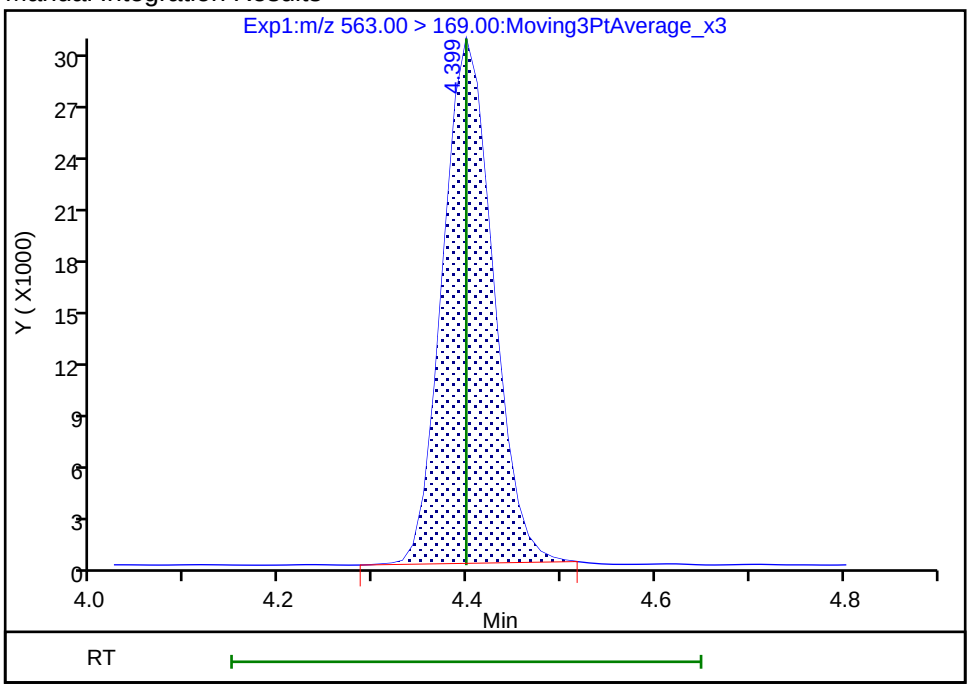
Processing Integration Results

RT: 4.40
Area: 115105
Amount: 0.972844
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 113729
Amount: 0.978745
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:58:22

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

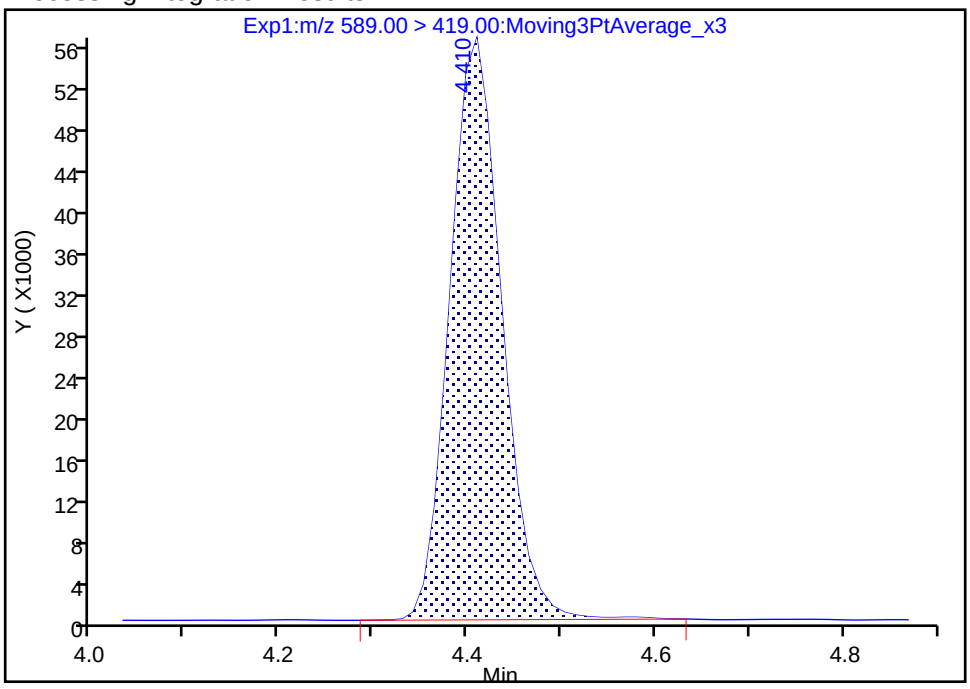
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

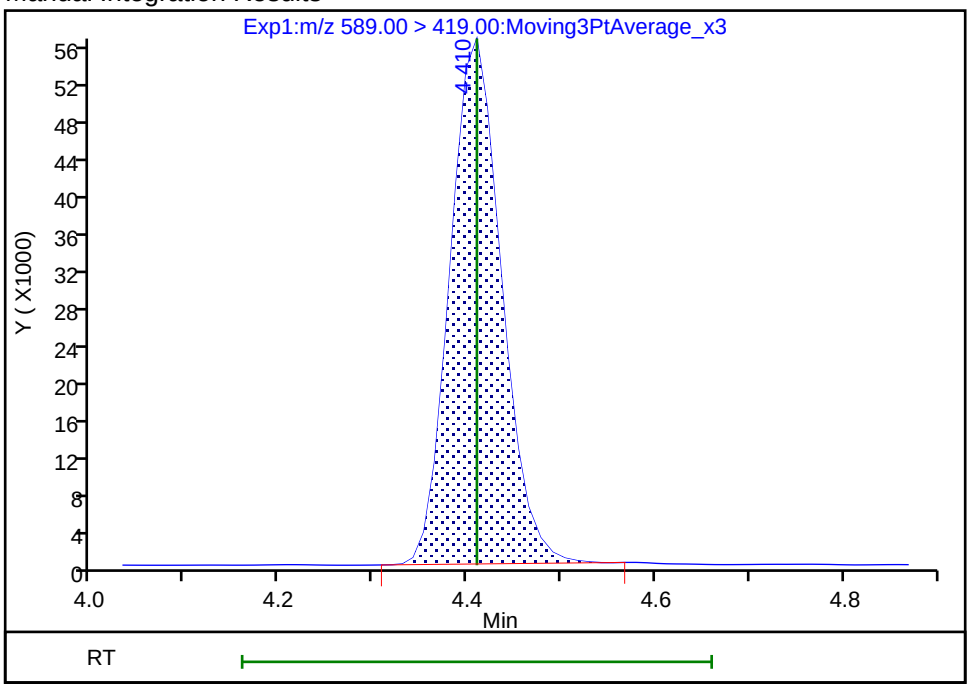
Processing Integration Results

RT: 4.41
Area: 217732
Amount: 1.279618
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 215694
Amount: 1.288315
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:58:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

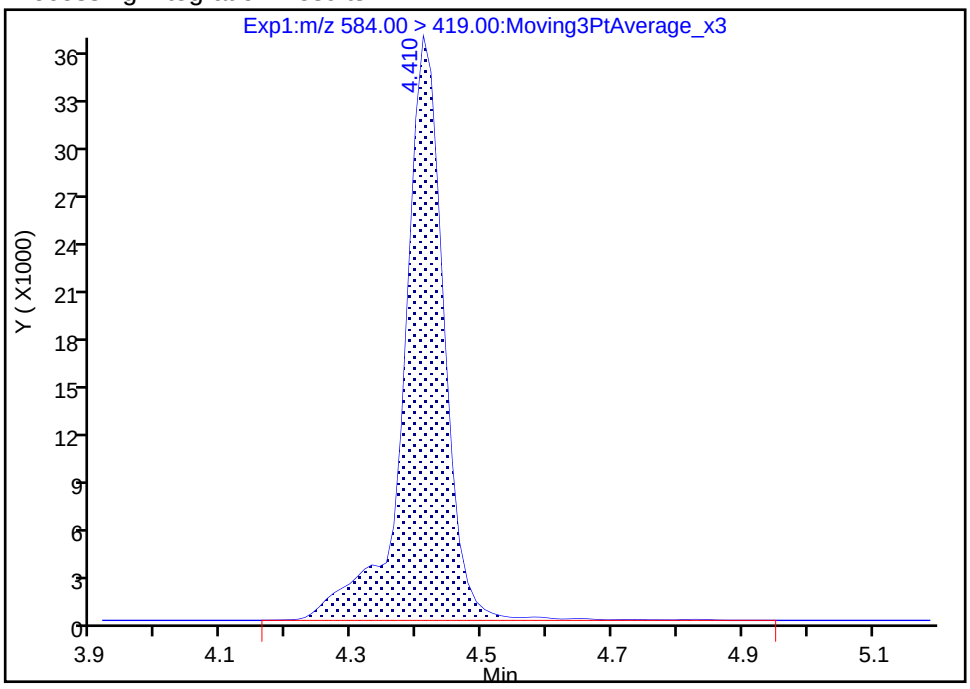
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

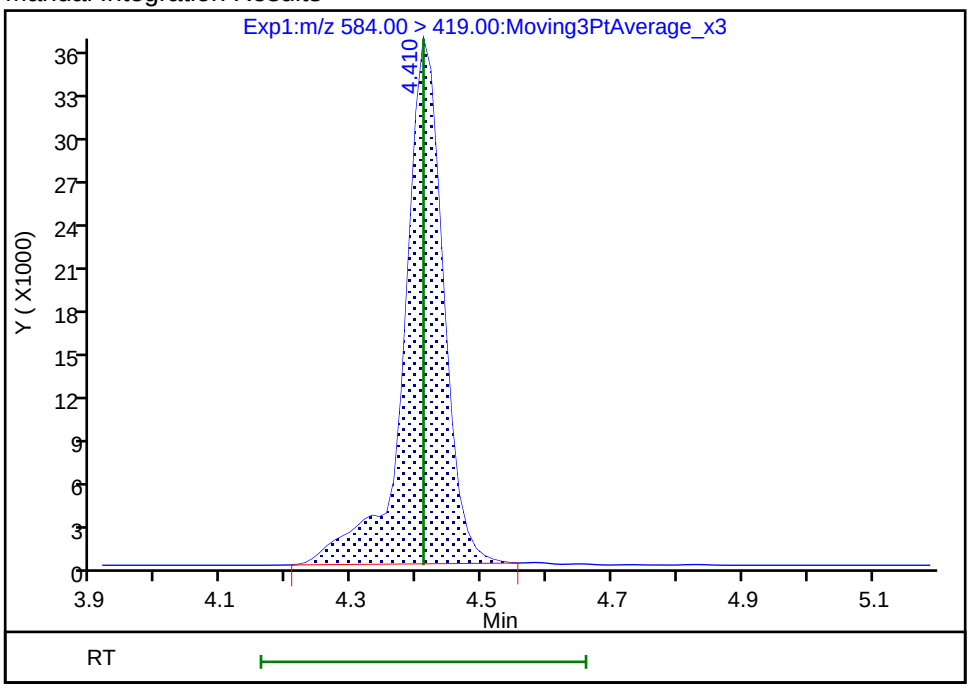
Processing Integration Results

RT: 4.41
Area: 155517
Amount: 1.018476
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 152563
Amount: 0.942445
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:58:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

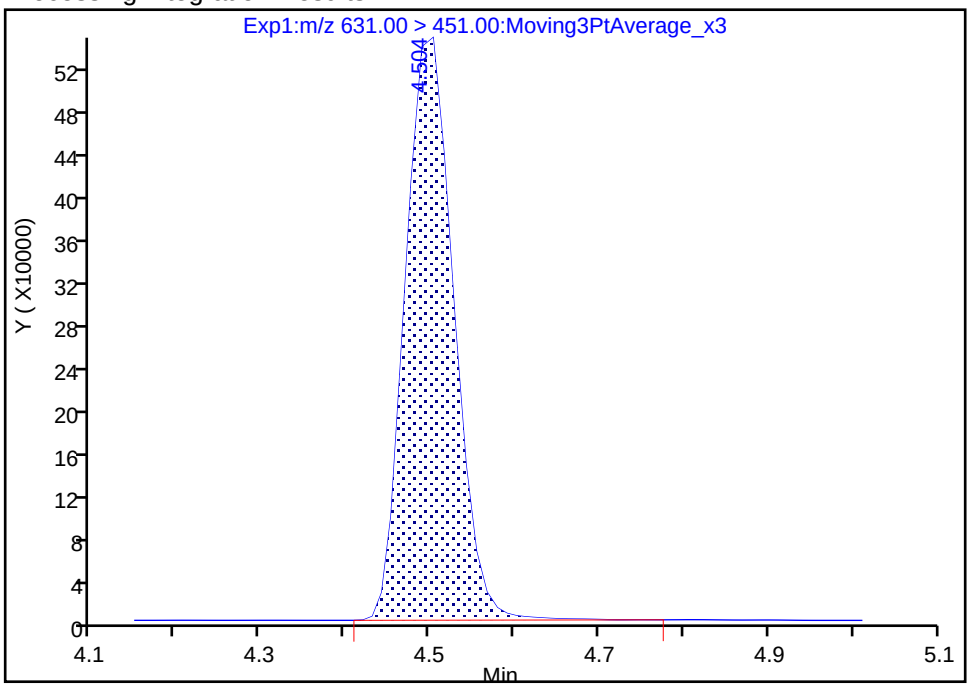
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

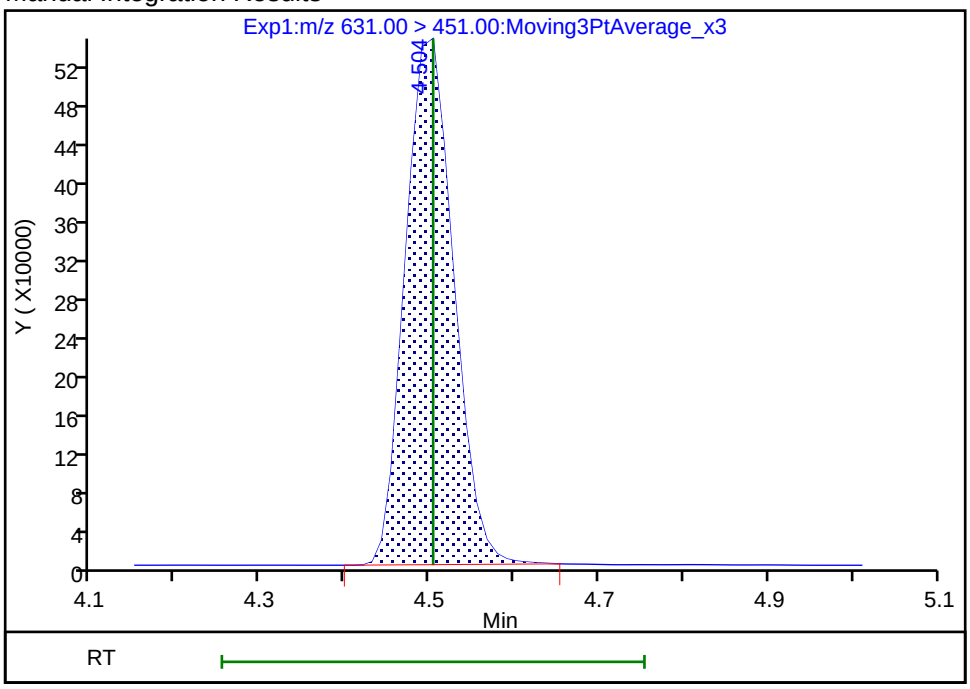
Processing Integration Results

RT: 4.50
Area: 2173492
Amount: 0.881891
Amount Units: ng/ml



Manual Integration Results

RT: 4.50
Area: 2162261
Amount: 0.889165
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:58:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

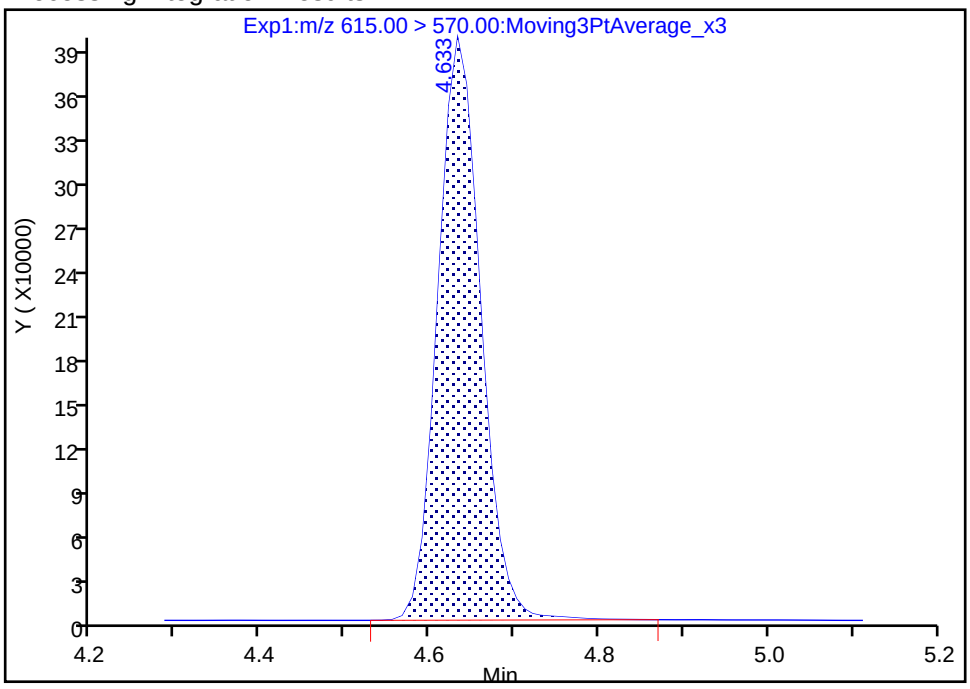
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 36 13C2 PFDoA, CAS: STL00998

Signal: 1

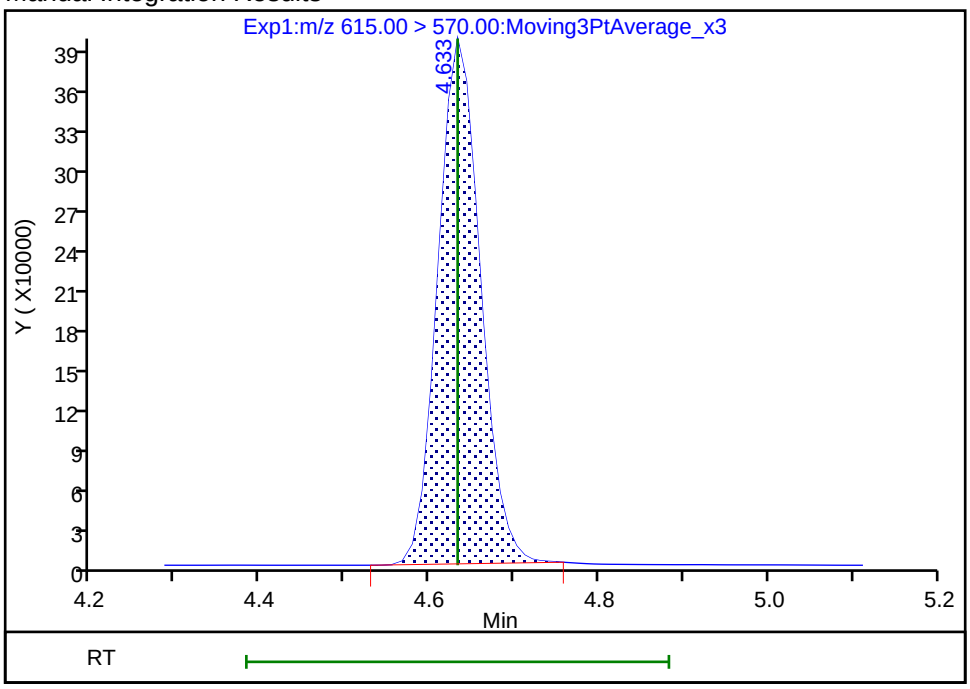
Processing Integration Results

RT: 4.63
Area: 1403250
Amount: 1.275451
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 1385963
Amount: 1.251725
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:58:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

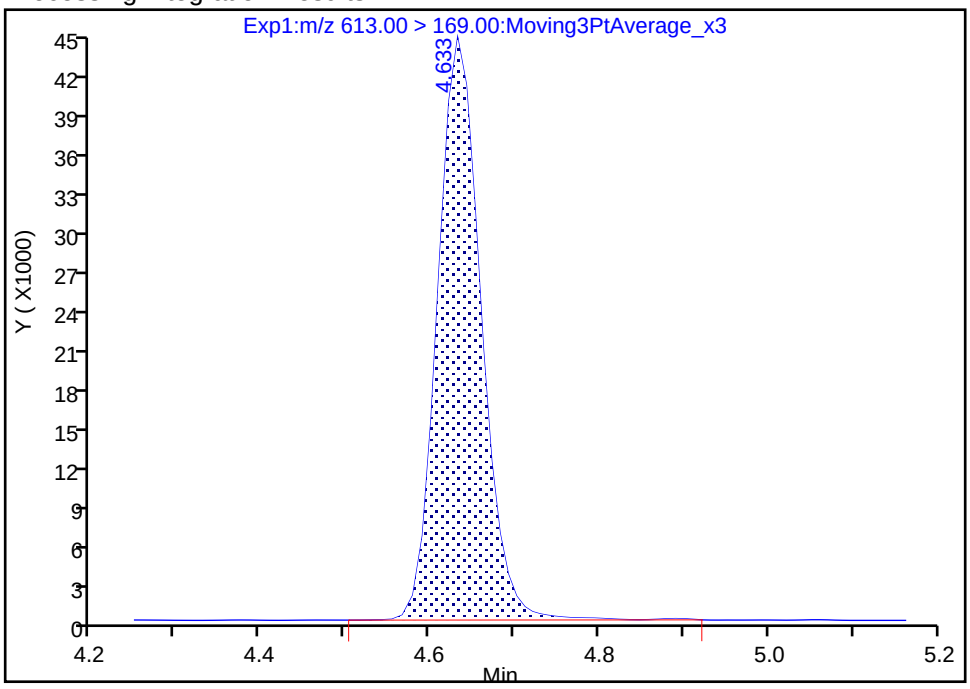
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

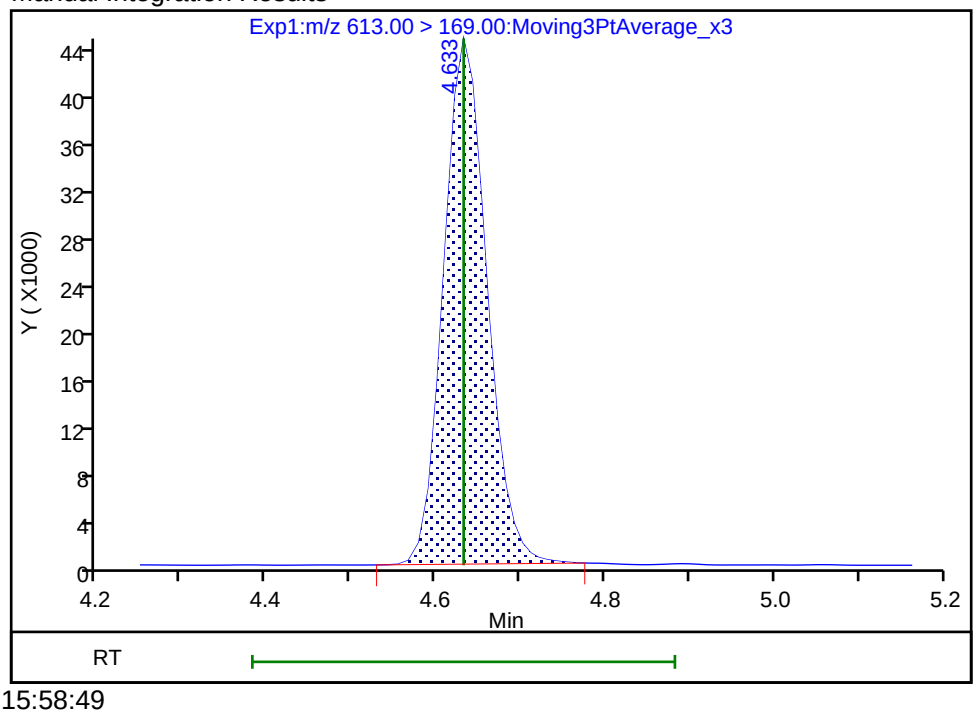
Processing Integration Results

RT: 4.63
Area: 159441
Amount: 0.967581
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 157650
Amount: 0.958426
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:58:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

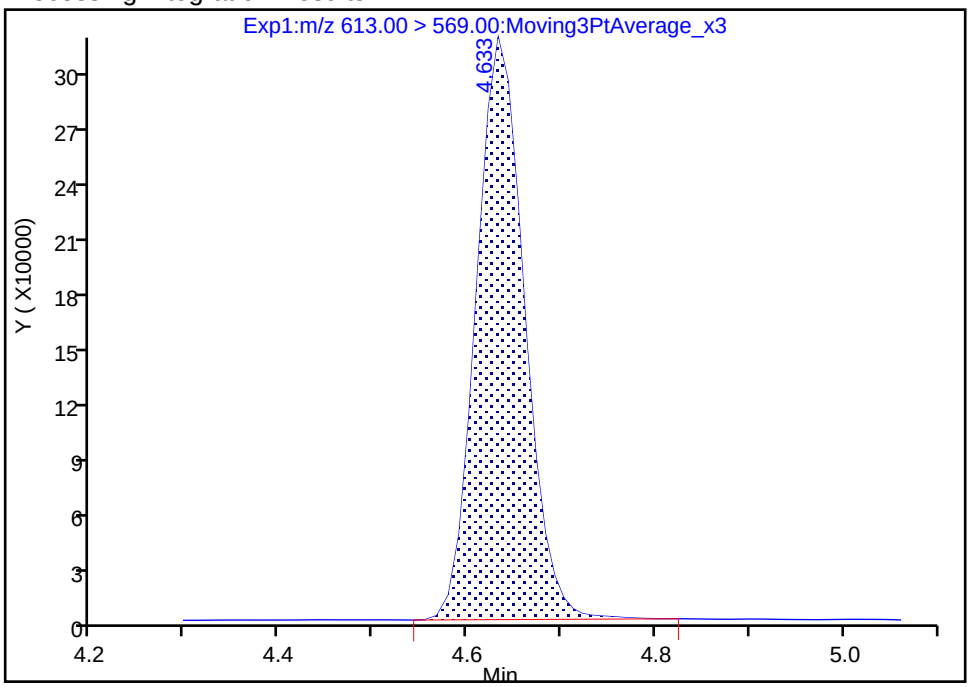
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

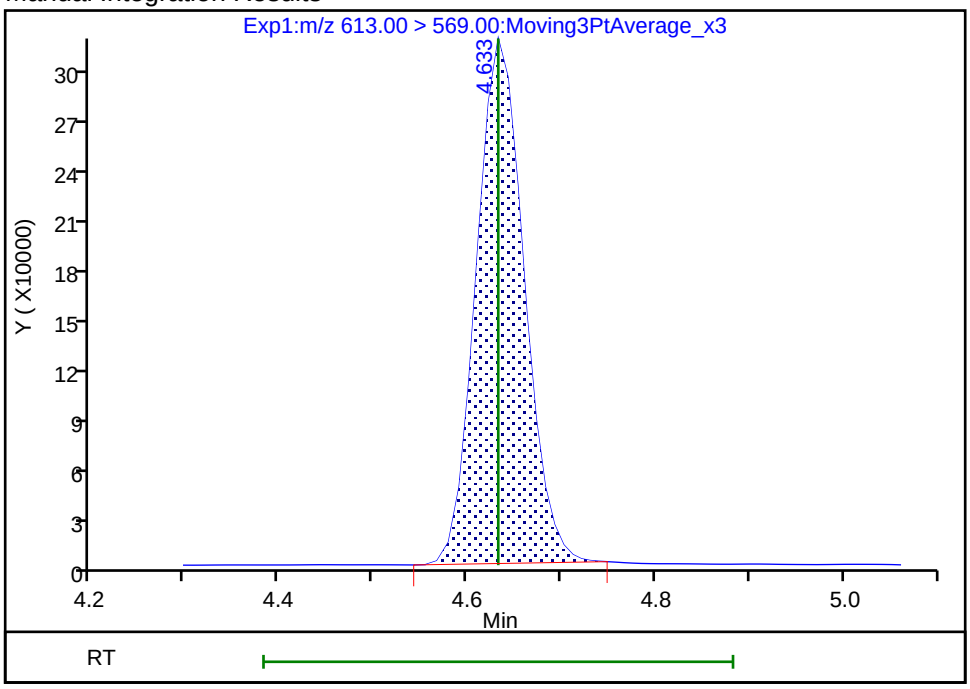
Processing Integration Results

RT: 4.63
Area: 1106990
Amount: 0.967581
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 1096003
Amount: 0.958426
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:58:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

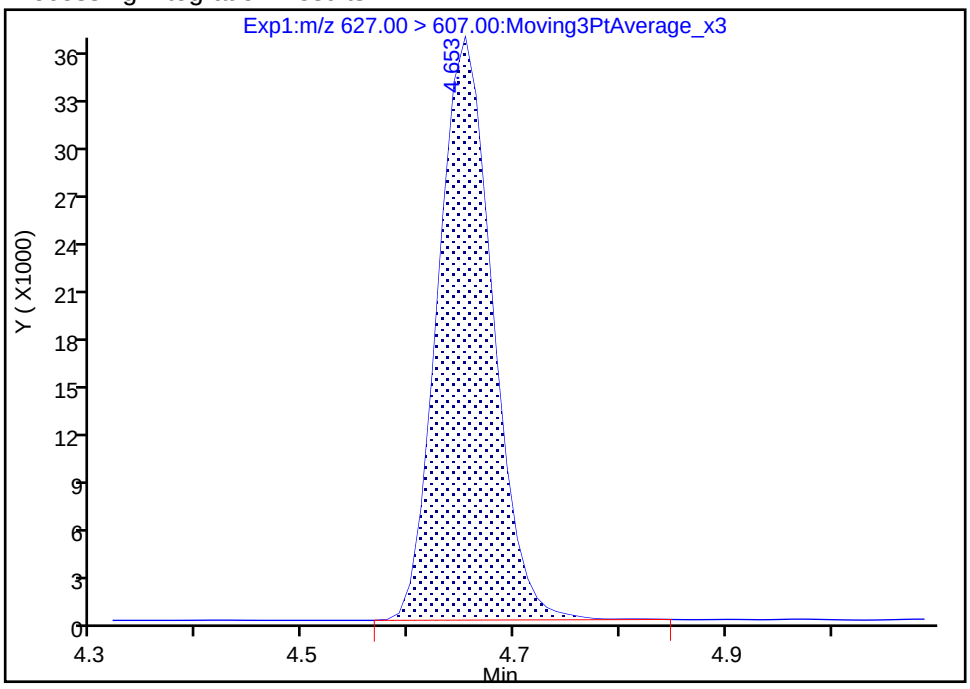
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

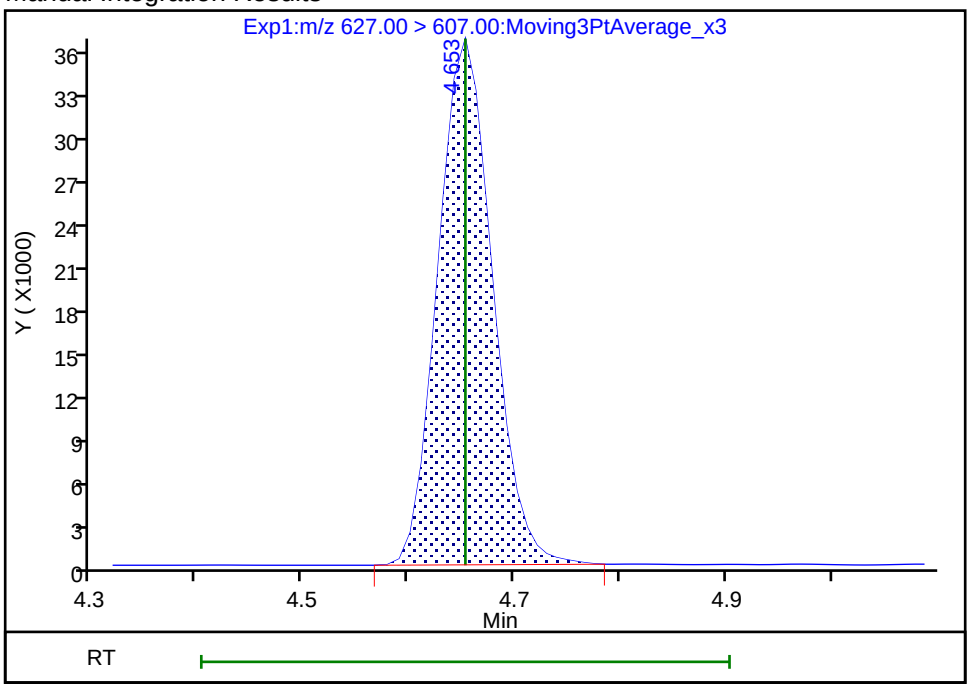
Processing Integration Results

RT: 4.65
Area: 129763
Amount: 0.939468
Amount Units: ng/ml



Manual Integration Results

RT: 4.65
Area: 129499
Amount: 0.937033
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:58:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

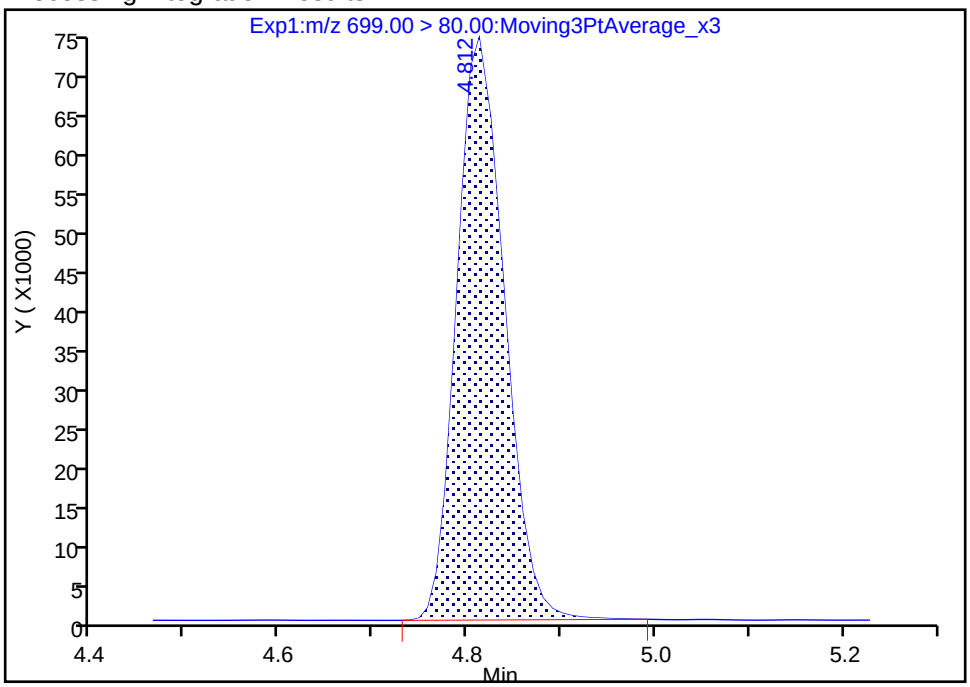
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

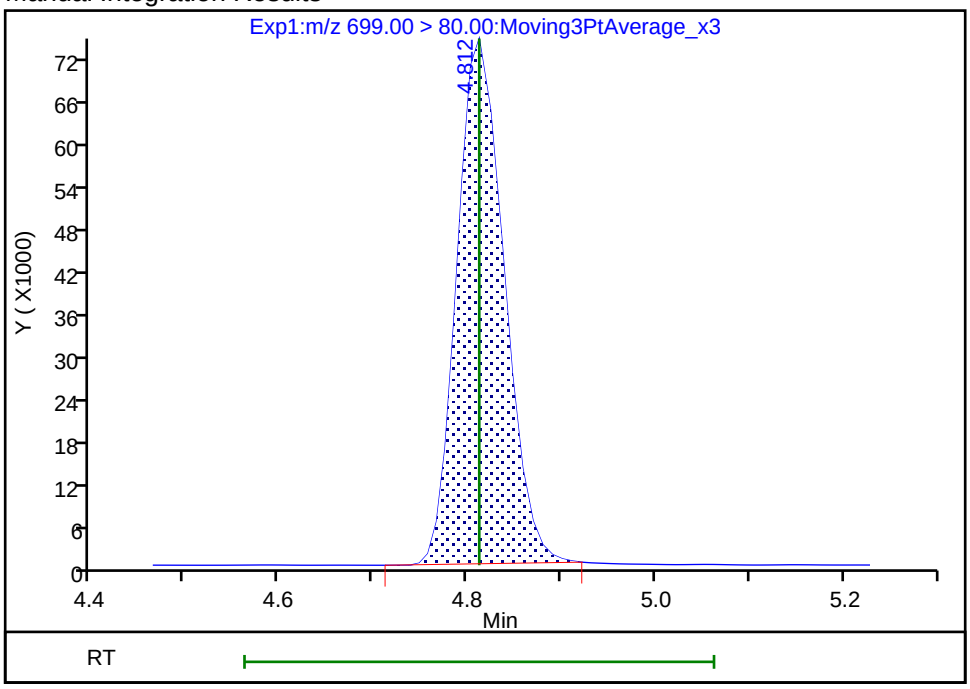
Processing Integration Results

RT: 4.81
Area: 260567
Amount: 0.946842
Amount Units: ng/ml



Manual Integration Results

RT: 4.81
Area: 257916
Amount: 0.923852
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:59:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

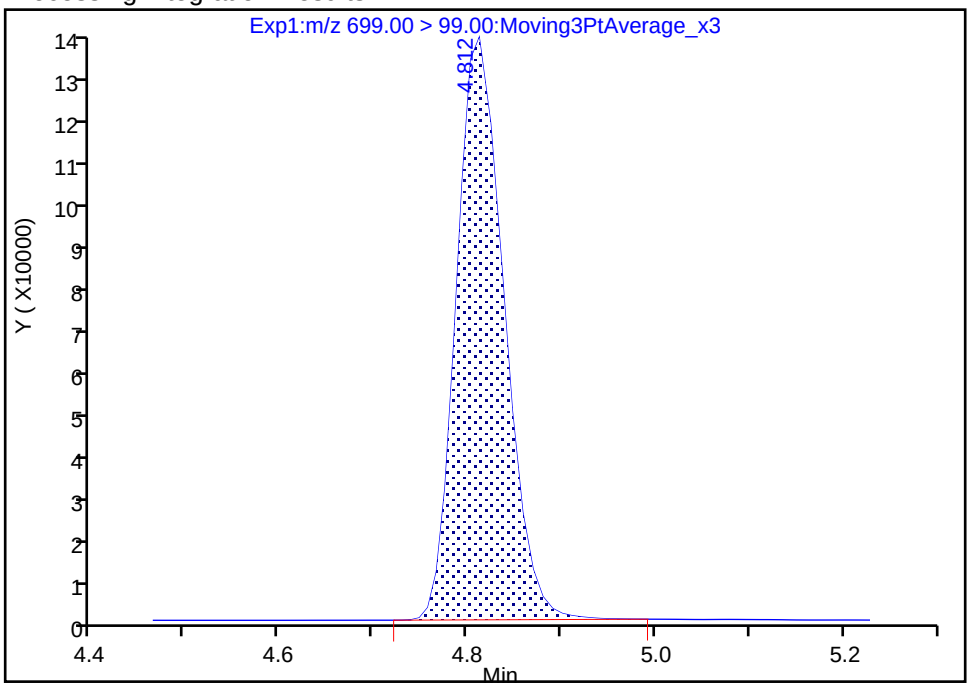
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d				
Injection Date:	05-May-2022 15:38:07	Instrument ID:	LC812		
Lims ID:	ICIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

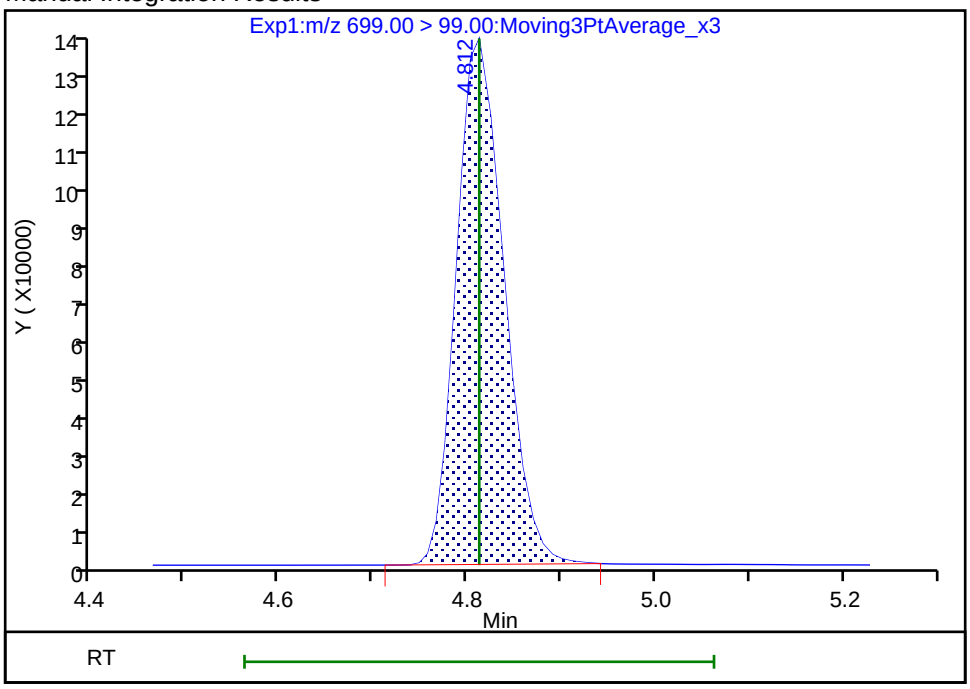
Processing Integration Results

RT: 4.81
Area: 471564
Amount: 0.946842
Amount Units: ng/ml



Manual Integration Results

RT: 4.81
Area: 469983
Amount: 0.923852
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:59:06

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

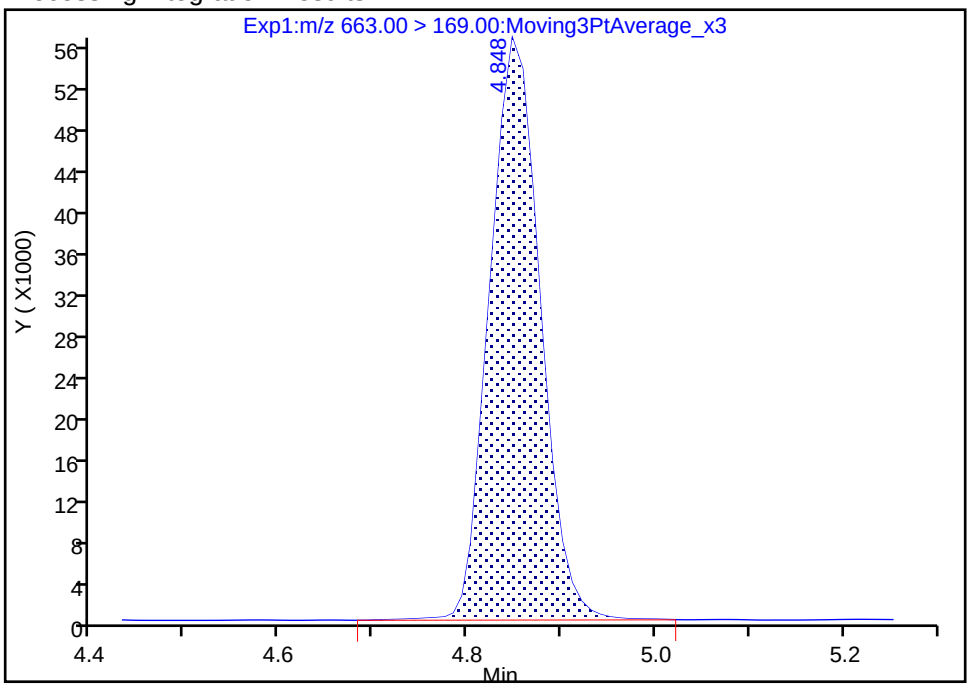
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

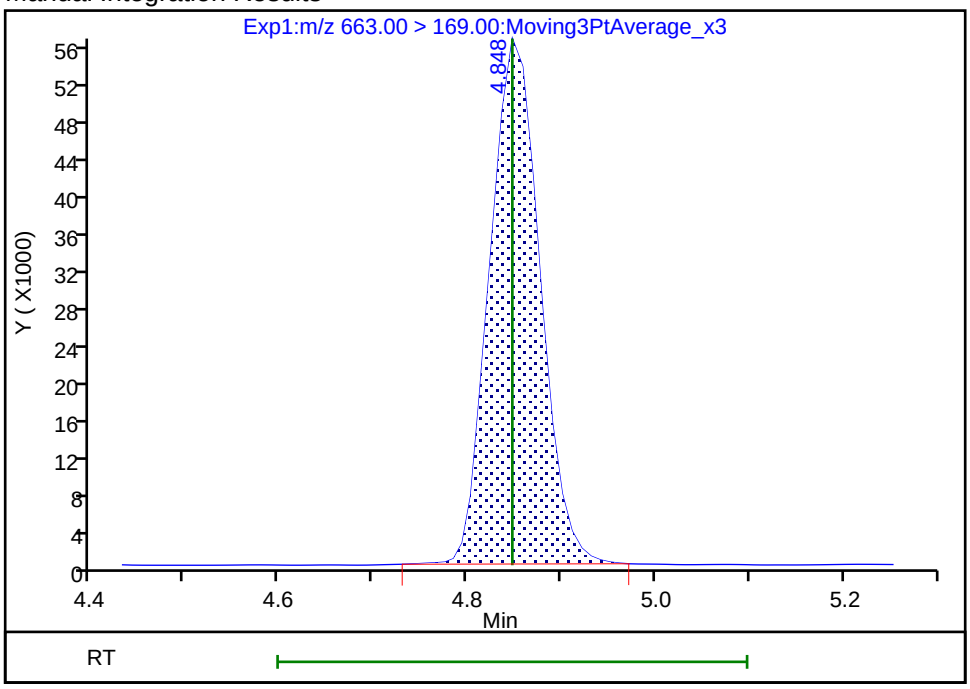
Processing Integration Results

RT: 4.85
Area: 211384
Amount: 0.983173
Amount Units: ng/ml



Manual Integration Results

RT: 4.85
Area: 209562
Amount: 0.955991
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:59:16
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

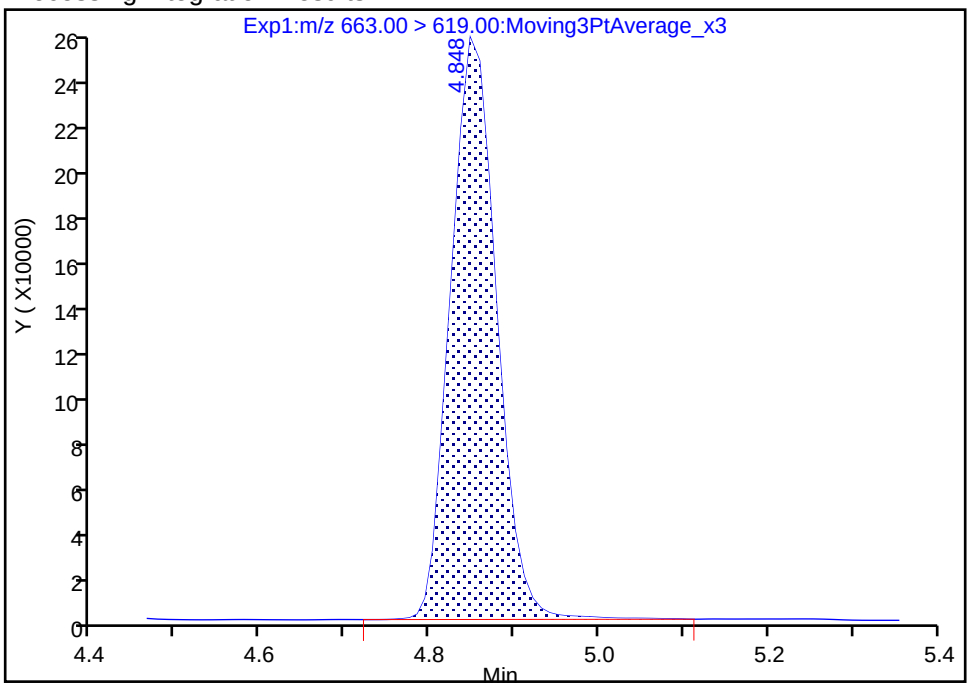
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

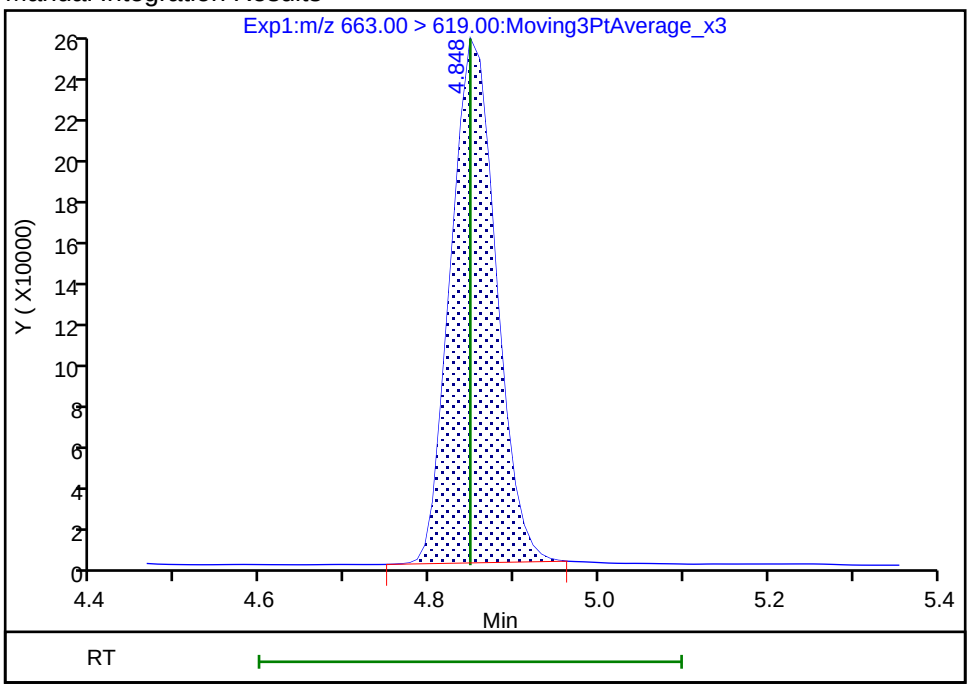
Processing Integration Results

RT: 4.85
Area: 945996
Amount: 0.983173
Amount Units: ng/ml



Manual Integration Results

RT: 4.85
Area: 931092
Amount: 0.955991
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:59:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

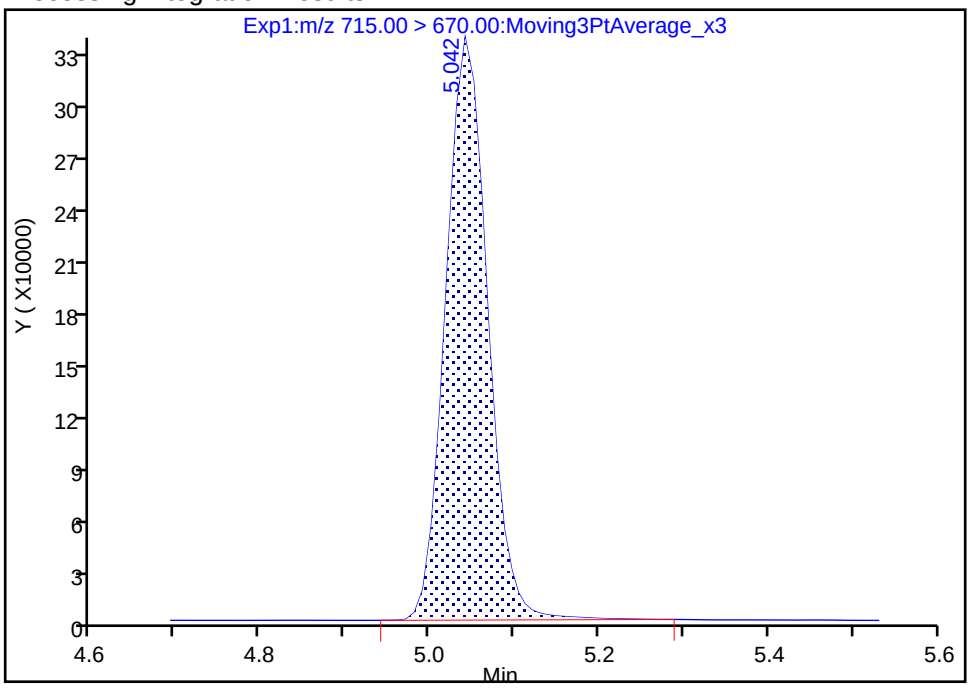
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

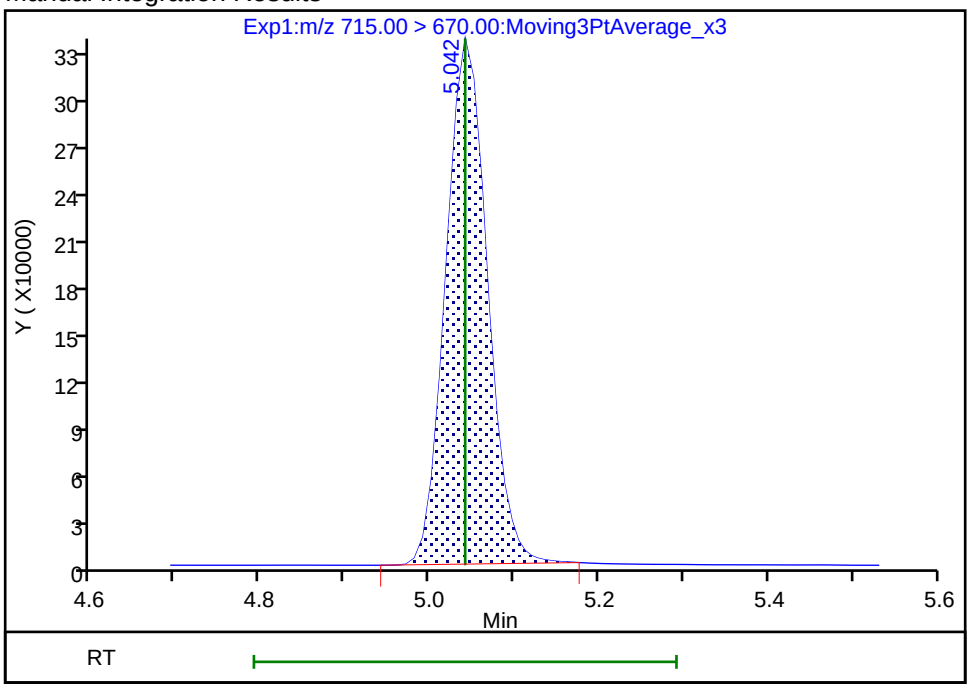
Processing Integration Results

RT: 5.04
Area: 1134443
Amount: 1.304553
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 1122215
Amount: 1.240091
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:59:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

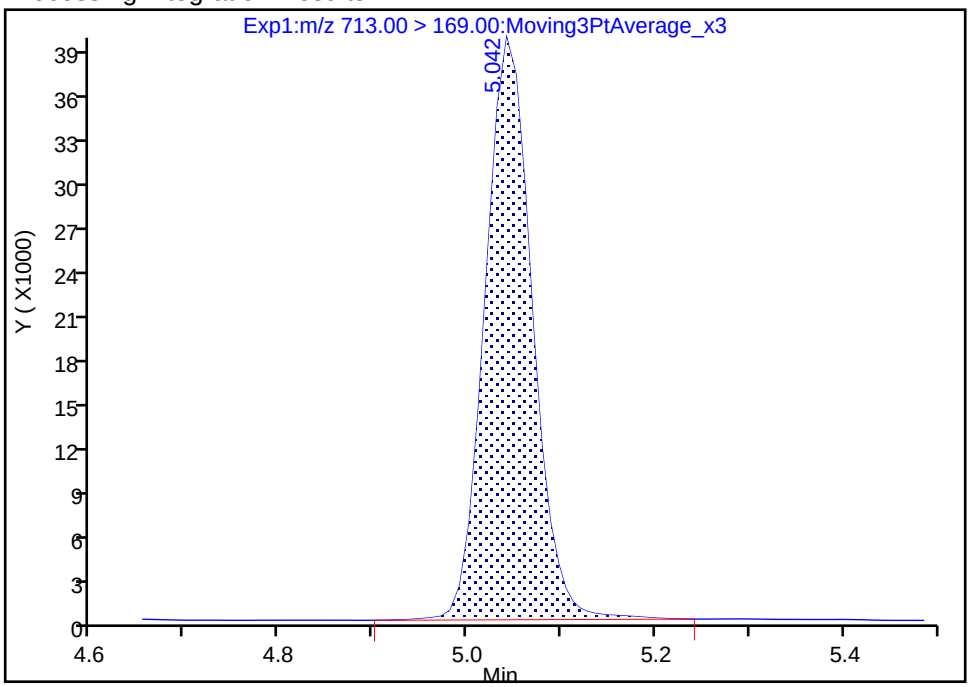
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

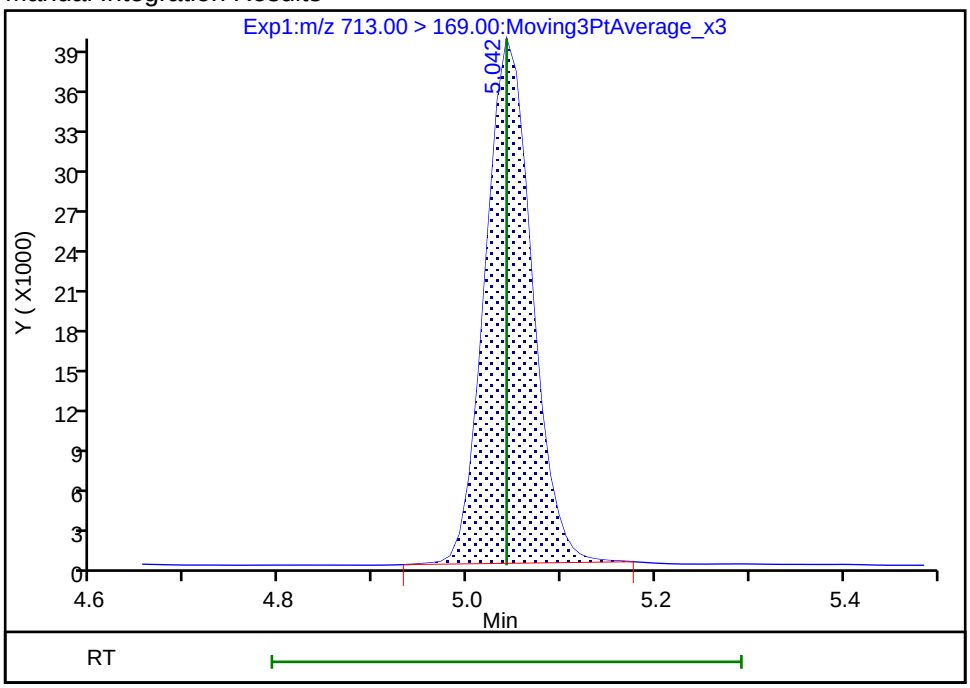
Processing Integration Results

RT: 5.04
Area: 137241
Amount: 0.972064
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 135318
Amount: 0.975473
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:59:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

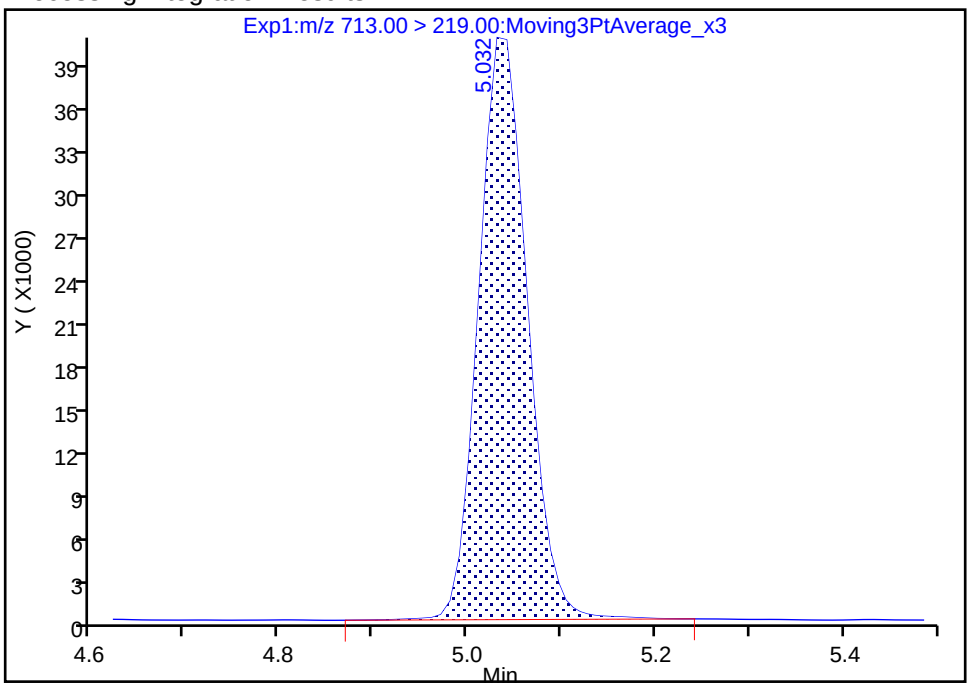
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d				
Injection Date:	05-May-2022 15:38:07	Instrument ID:	LC812		
Lims ID:	ICIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

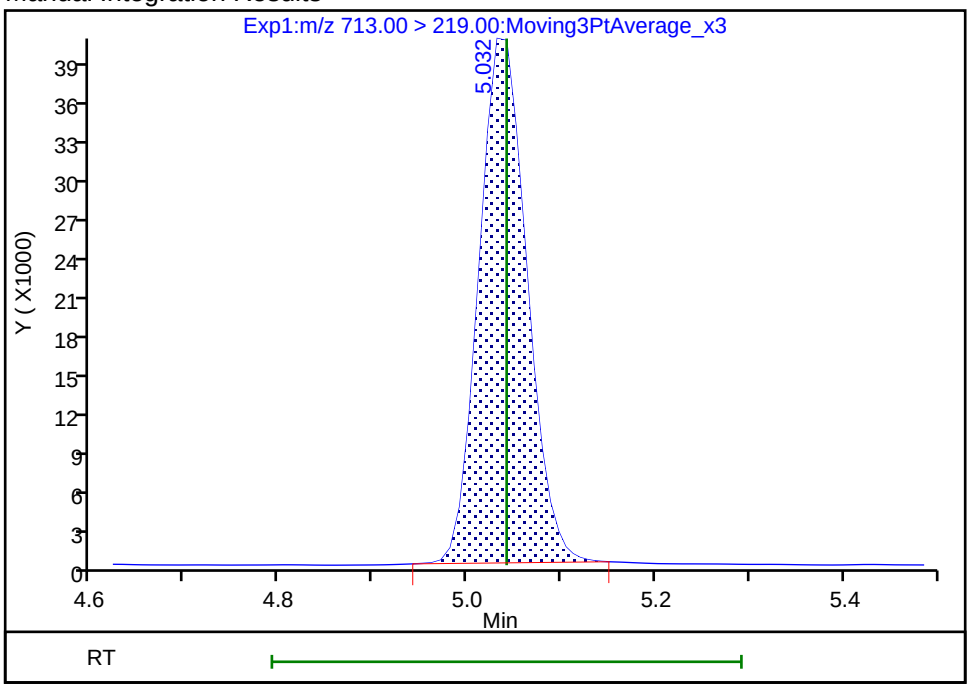
Processing Integration Results

RT: 5.03
Area: 143387
Amount: 0.972064
Amount Units: ng/ml



Manual Integration Results

RT: 5.03
Area: 141277
Amount: 0.975473
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:59:33

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

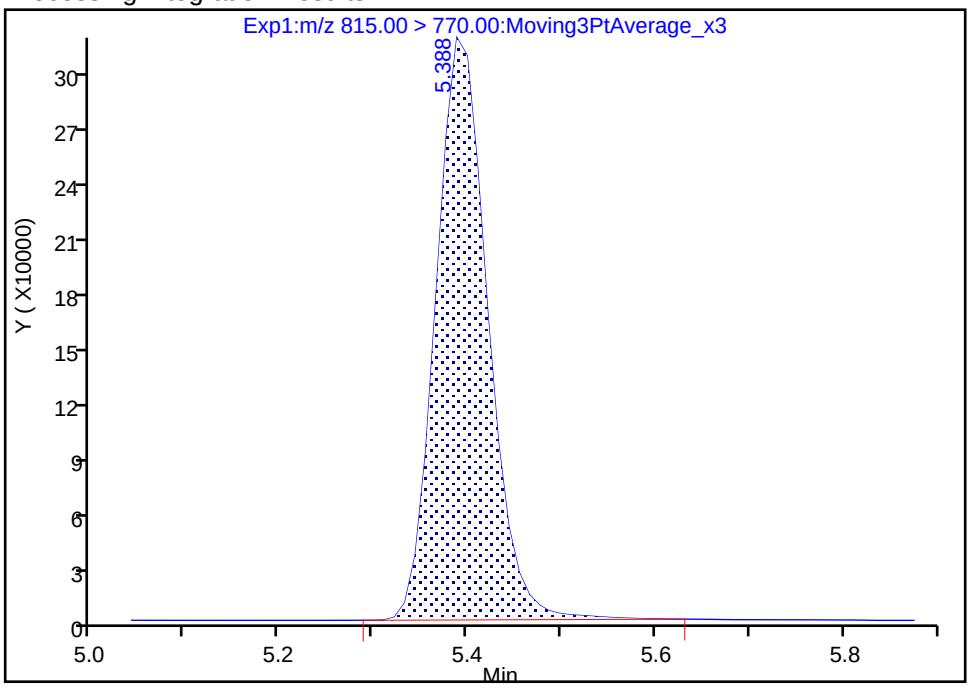
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

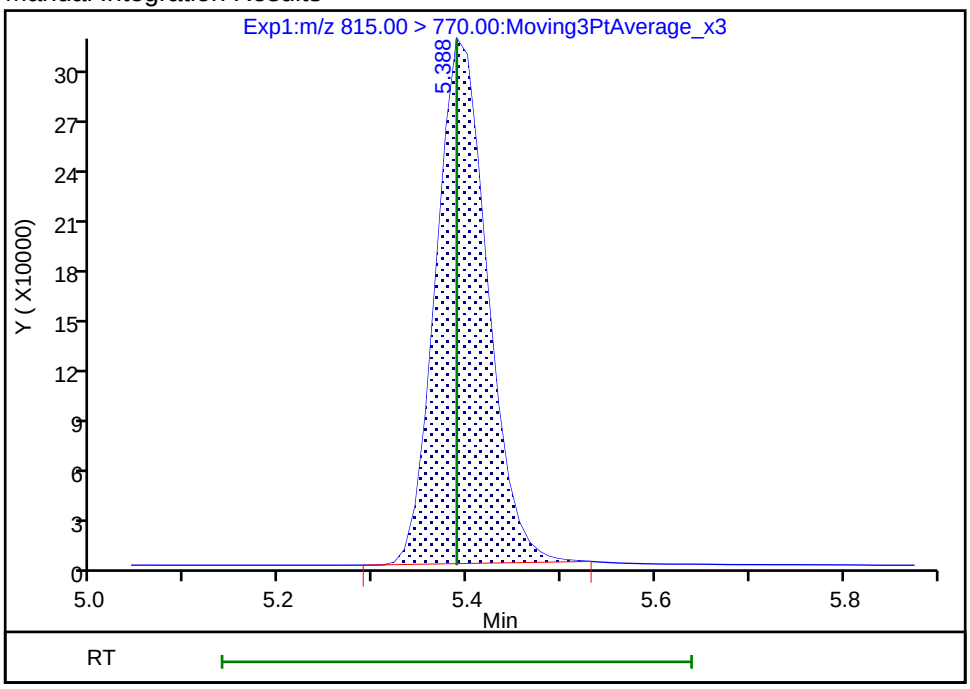
Processing Integration Results

RT: 5.39
Area: 1213291
Amount: 1.300150
Amount Units: ng/ml



Manual Integration Results

RT: 5.39
Area: 1196433
Amount: 1.275464
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:59:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

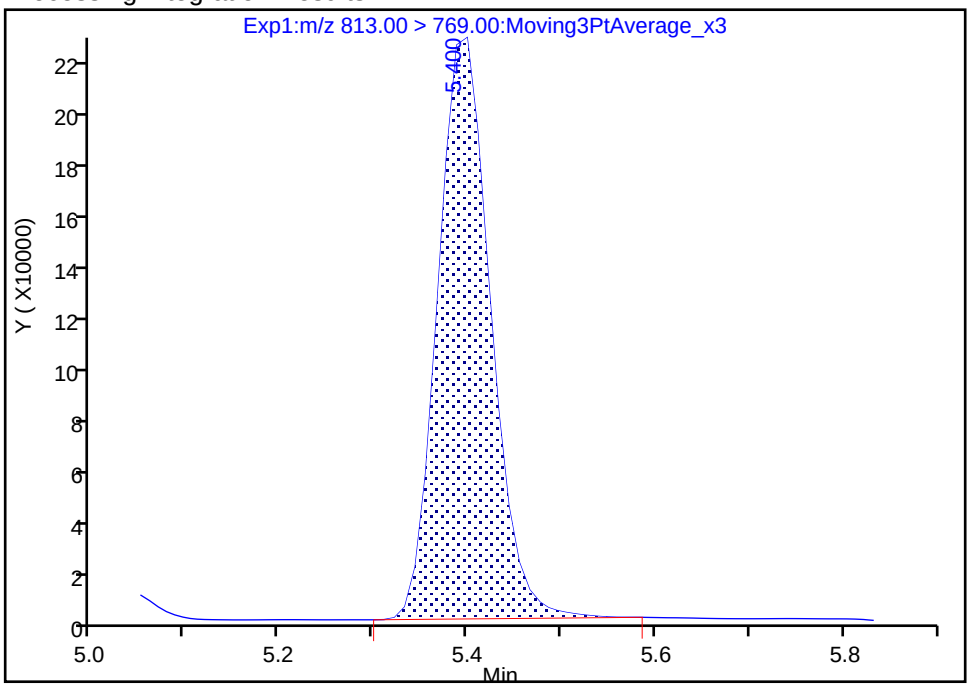
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

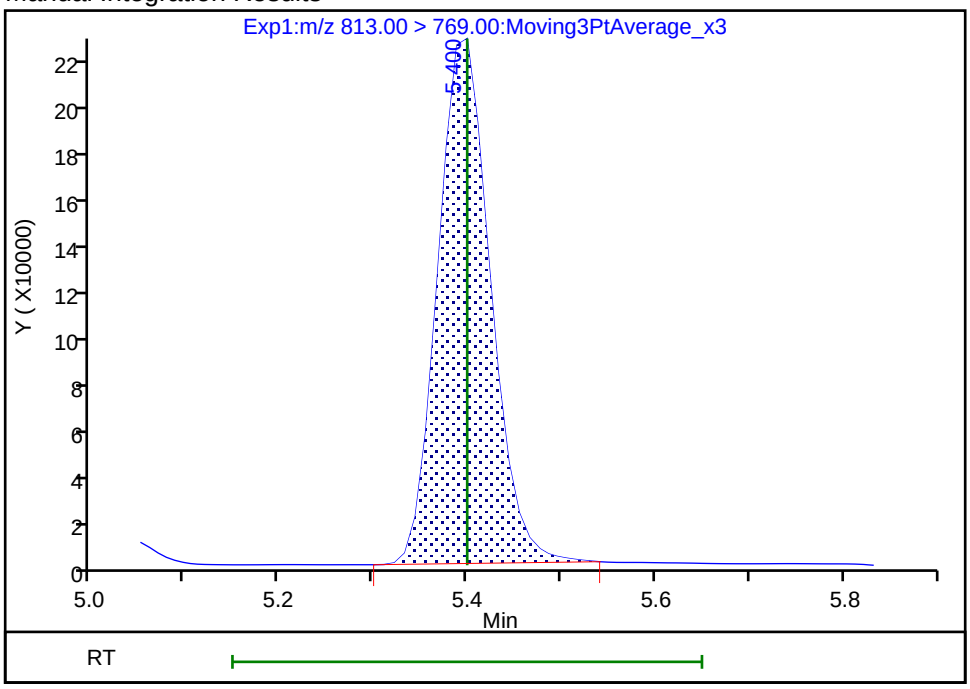
Processing Integration Results

RT: 5.40
Area: 863012
Amount: 0.962027
Amount Units: ng/ml



Manual Integration Results

RT: 5.40
Area: 859211
Amount: 1.003530
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:59:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

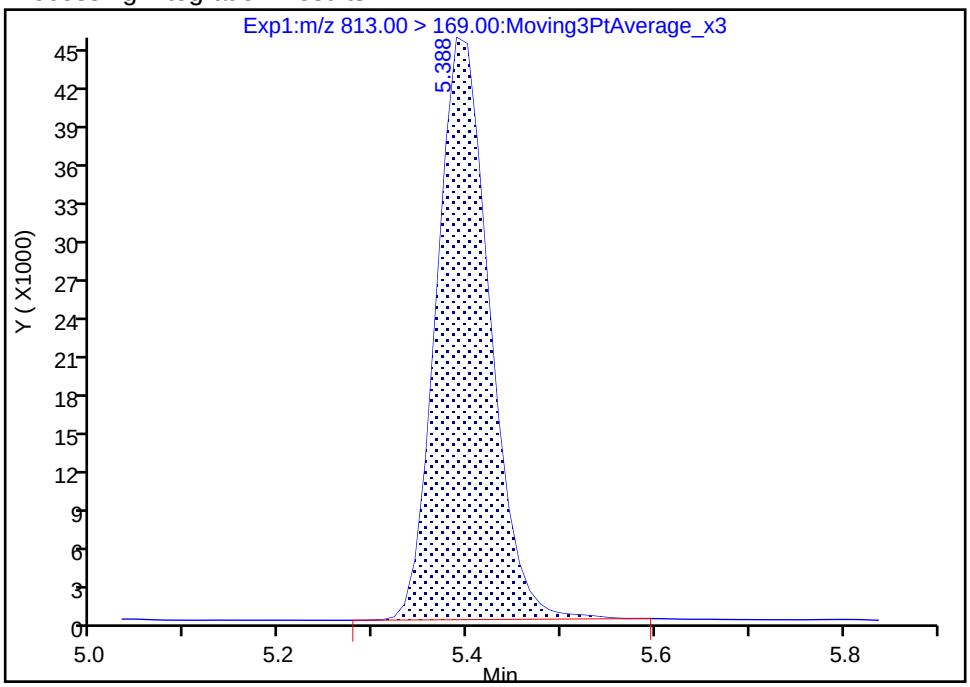
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

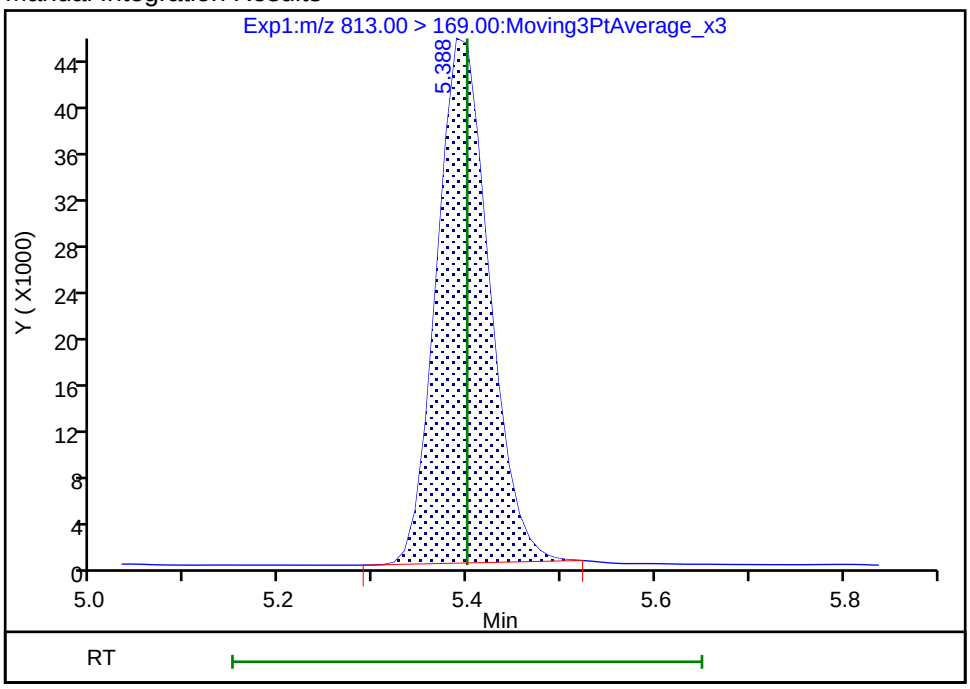
Processing Integration Results

RT: 5.39
Area: 177665
Amount: 0.962027
Amount Units: ng/ml



Manual Integration Results

RT: 5.39
Area: 175195
Amount: 1.003530
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:59:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

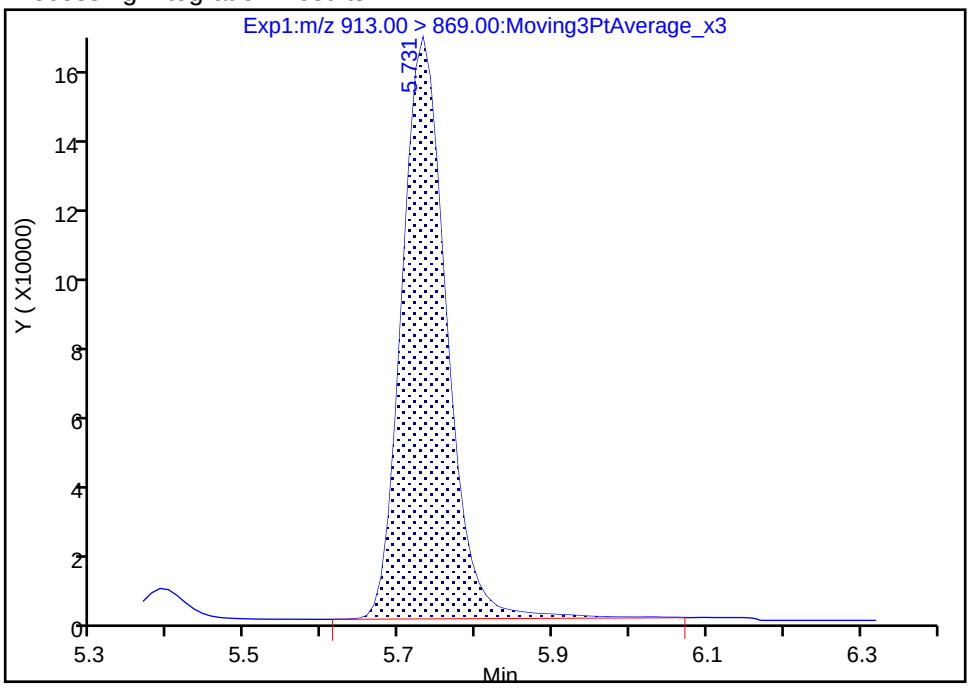
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL08.d
Injection Date: 05-May-2022 15:38:07 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

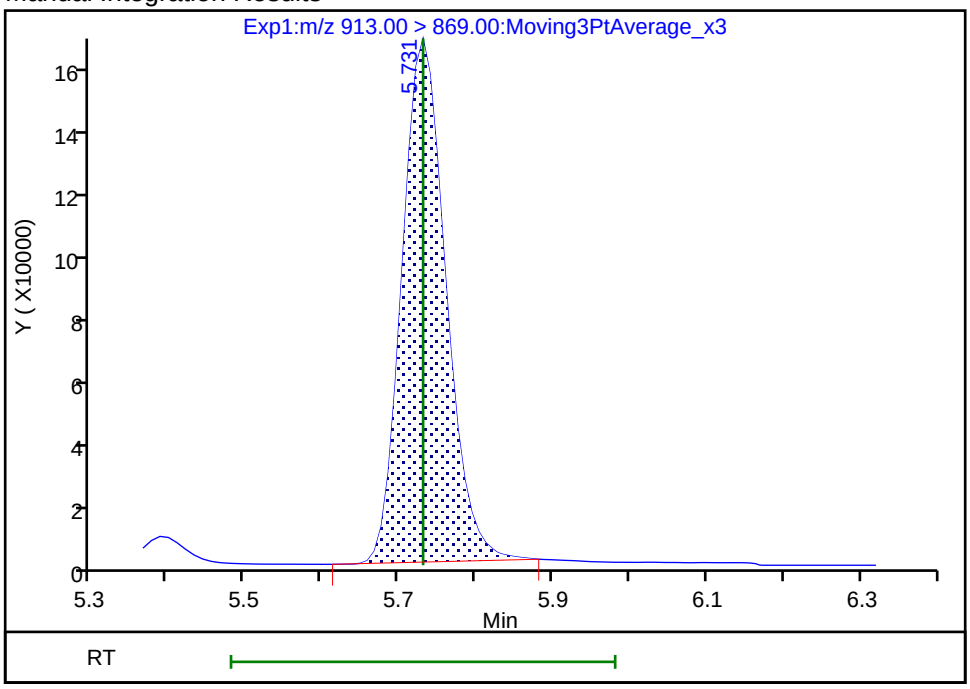
Processing Integration Results

RT: 5.73
Area: 665907
Amount: 0.965624
Amount Units: ng/ml



Manual Integration Results

RT: 5.73
Area: 649655
Amount: 0.974317
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 15:59:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 05-May-2022 15:46:19 ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 200-0050718-009 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 05-May-2022 16:22:19 Calib Date: 05-May-2022 15:54:29
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1631

First Level Reviewer: deannd Date: 05-May-2022 16:06:30
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.093	2.102	-0.009	1.000	3217740	2.39		95.6	734	M
D 1 13C4 PFBA										M
217.00 > 172.00	2.093	2.102	-0.009	0.600	1783532	1.21		97.0	7289	M
D 3 13C5 PFPeA										M
267.90 > 223.00	2.413	2.413	0.0	0.691	1407730	1.25		100	2487	M
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.413	2.413	0.0	1.000	2768542	2.41		96.5	147	M
D 47 13C3 PFBS										
301.90 > 80.00	2.426	2.427	-0.001	0.695	1878647	1.15		99.1	230557	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.426	2.440	-0.014	1.000	3789288	2.15	Target=2.18	97.3	3813	M
298.90 > 99.00	2.426	2.440	-0.014	1.000	1707179		2.22(1.09-3.27)	97.3	998	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.725	2.738	-0.013	1.000	737713	2.16		92.7	1985	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.725	2.738	-0.013	0.781	158459	1.18		101	185	M
D 7 13C2 PFHxA										M
315.00 > 270.00	2.762	2.774	-0.012	0.791	1396626	1.21		97.2	2079	M
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.774	2.774	0.0	1.004	2935079	2.43	Target=12.96	97.4	372	M
313.00 > 119.00	2.774	2.774	0.0	1.004	229907		12.77(6.48-19.44)	97.4	163	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.774	2.774	0.0	0.886	3616305	2.32	Target=3.01	98.9	2358	M
349.00 > 99.00	2.774	2.774	0.0	0.886	1209938		2.99(1.50-4.51)	98.9	1558	M
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.883	2.884	-0.001	0.826	238207	1.21		96.8	1625	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.883	2.884	-0.001	1.000	508499	2.45		97.8	2221	M
D 11 18O2 PFHxS										M
403.00 > 84.00	3.132	3.132	0.0	0.897	1493087	1.17		99.0	1901	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.132	3.132	0.0	1.000	2975936	2.13	Target=3.51	93.7	1715	M
399.00 > 99.00	3.132	3.132	0.0	1.000	873820		3.41(1.76-5.27)	93.7	798	M
D 9 13C4 PFHpA										M
367.00 > 322.00	3.132	3.143	-0.011	0.897	1561665	1.26		101	1740	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.143	3.143	0.0	1.004	2988268	2.37	Target=3.71	94.7	680	
363.00 > 169.00	3.143	3.143	0.0	1.004	788919		3.79(1.86-5.57)	94.7	635	M
77 DONA										M
377.00 > 251.00	3.176	3.176	0.0	0.833	7368416	2.36	Target=2.68	100	2293	M
377.00 > 85.00	3.176	3.176	0.0	0.833	2707633		2.72(1.34-4.03)	100	1703	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.481	3.482	-0.001	0.913	2726119	2.32	Target=5.10	97.4	1807	M
449.00 > 99.00	3.481	3.482	-0.001	0.913	572572		4.76(2.55-7.66)	97.4	1188	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.481	3.482	-0.001	1.000	733854	2.34		98.7	784	M
D 12 M2-6:2 FTS										M
429.00 > 81.00	3.481	3.482	-0.001	0.998	240108	1.15		97.2	576	M
D 14 13C4 PFOA										M
417.00 > 372.00	3.490	3.491	-0.001	1.000	1662606	1.27		102	1390	M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.490	3.500	-0.010	1.000	3505323	2.35	Target=2.75	94.1	420	M
413.00 > 169.00	3.490	3.500	-0.010	1.000	1296810		2.70(1.37-4.12)	94.1	1248	M
* 62 13C2 PFOA										M
415.00 > 370.00	3.490	3.500	-0.010		1731635	1.25			1977	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.811	3.812	-0.001	1.000	2274091	2.18	Target=4.70	93.8	1042	M
499.00 > 99.00	3.811	3.812	-0.001	1.000	506010		4.49(2.35-7.05)	93.8	977	M
D 18 13C4 PFOS										M
503.00 > 80.00	3.811	3.812	-0.001	1.092	1168859	1.17		97.7	1735	M
D 19 13C5 PFNA										M
468.00 > 423.00	3.821	3.834	-0.013	1.095	1738420	1.23		98.1	2438	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.821	3.834	-0.013	1.000	3185158	2.37	Target=7.93	94.7	397	M
463.00 > 169.00	3.821	3.834	-0.013	1.000	428099		7.44(3.97-11.90)	94.7	1922	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.969	3.978	-0.009	1.041	4030490	2.34		100	3681	M
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.092	4.104	-0.012	1.074	1823060	2.30	Target=2.53	96.0	1913	M
549.00 > 99.00	4.104	4.104	0.0	1.077	736731		2.47(1.26-3.79)	96.0	2676	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.127	4.127	0.0	1.000	3475217	2.47	Target=9.72	98.9	1107	M
513.00 > 169.00	4.127	4.127	0.0	1.000	354489		9.80(4.86-14.57)	98.9	1172	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										M
515.00 > 470.00	4.127	4.138	-0.011	1.183	1648953	1.21		96.7	2807	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.138	4.138	0.0	1.000	620056	2.26		94.6	1703	M
D 26 M2-8:2 FTS										M
529.00 > 81.00	4.138	4.138	0.0	1.186	294549	1.18		98.5	860	M
D 21 13C8 FOSA										M
506.00 > 78.00	4.195	4.196	-0.001	1.202	1857858	1.24		99.0	1766	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.195	4.207	-0.012	1.000	3627662	2.41		96.2	2690	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.273	4.273	0.0	1.224	231863	1.28		102	314	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.273	4.273	0.0	1.000	397876	2.36		94.3	573	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.364	4.376	-0.012	1.145	1450529	2.40	Target=2.47	99.8	2301	M
599.00 > 99.00	4.364	4.376	-0.012	1.145	576933		2.51(1.23-3.70)	99.8	1820	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.398	4.399	-0.001	1.000	2673619	2.49	Target=9.24	99.6	1183	M
563.00 > 169.00	4.398	4.399	-0.001	1.000	279244		9.57(4.62-13.87)	99.6	1386	M
D 30 13C2 PFUnA										M
565.00 > 520.00	4.398	4.399	-0.001	1.260	1302590	1.19		95.1	1341	M
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.398	4.410	-0.012	1.260	219457	1.24		99.2	1331	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.410	4.410	0.0	1.003	386005	2.34		93.7	1167	M
66 11-Chloroeicosafluoro-3-oxaundec										M
631.00 > 451.00	4.491	4.504	-0.013	1.178	5591229	2.34		99.4	3128	M
D 36 13C2 PFDoA										M
615.00 > 570.00	4.622	4.633	-0.011	1.324	1382222	1.18		94.5	1693	M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.633	4.633	0.0	1.002	2751740	2.41	Target=7.29	96.5	340	M
613.00 > 169.00	4.633	4.633	0.0	1.002	379347		7.25(3.64-10.93)	96.5	1416	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.643	4.653	-0.010	1.122	319011	2.34		97.2	1146	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.803	4.812	-0.009	1.260	653613	2.38	Target=0.54	98.5	1430	M
699.00 > 99.00	4.803	4.812	-0.009	1.260	1176911		0.56(0.27-0.81)	98.5	1669	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.848	4.848	0.0	1.049	2444128	2.52	Target=4.74	101	365	M
663.00 > 169.00	4.848	4.848	0.0	1.049	521520		4.69(2.37-7.10)	101	1238	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.032	5.042	-0.010	1.000	363547	2.32	Target=0.99	92.9	1679	M
713.00 > 219.00	5.032	5.042	-0.010	1.000	355541		1.02(0.49-1.48)	92.9	1040	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.032	5.042	-0.010	1.442	1266993	1.32		106	2164	M

Report Date: 05-May-2022 16:22:20 Chrom Revision: 2.3 02-May-2022 18:31:28
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.389	5.388	0.001	1.544	1261675	1.27		102	1202	M
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.389	5.400	-0.011	1.000	2167265	2.43	Target=4.87	97.1	328	M
813.00 > 169.00	5.389	5.400	-0.011	1.000	450419		4.81(2.43-7.30)	97.1	1169	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.722	5.731	-0.009	1.062	1696027	2.41	Target=4.95	96.5	246	M
913.00 > 169.00	5.722	5.731	-0.009	1.062	341462		4.97(2.47-7.42)	96.5	449	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

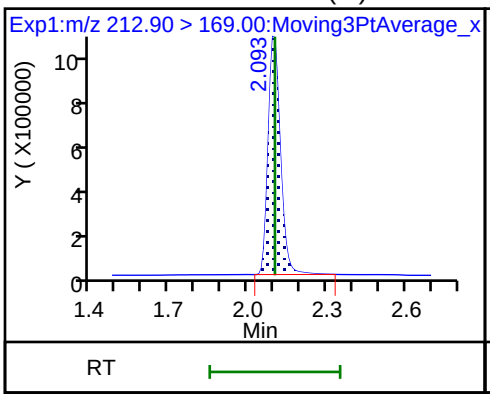
PFAS32NCIC5_00025 Amount Added: 100.00 Units: uL

Report Date: 05-May-2022 16:22:20 Chrom Revision: 2.3 02-May-2022 18:31:28

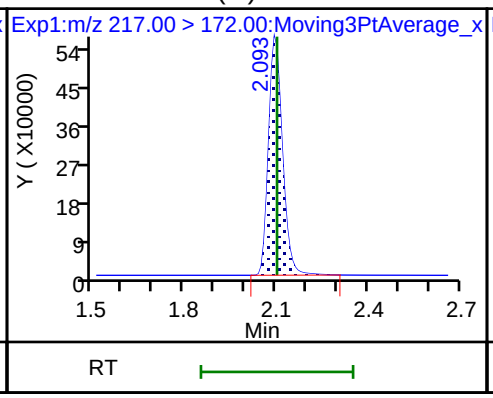
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL

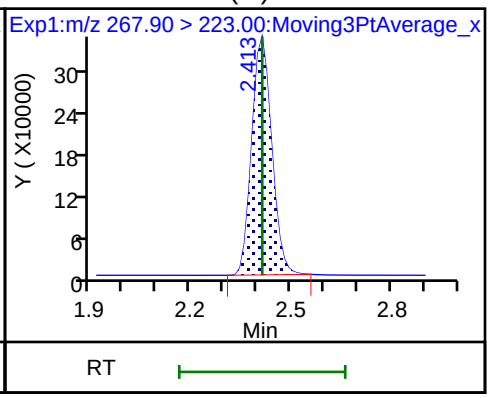
2 Perfluorobutanoic acid (M)



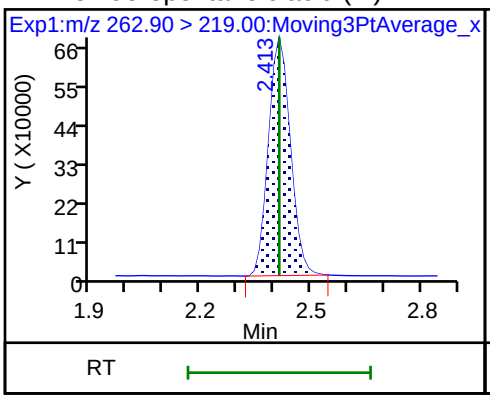
D 1 13C4 PFBA (M)



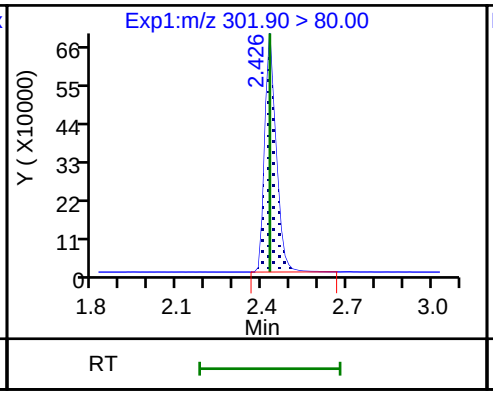
D 3 13C5 PFPeA (M)



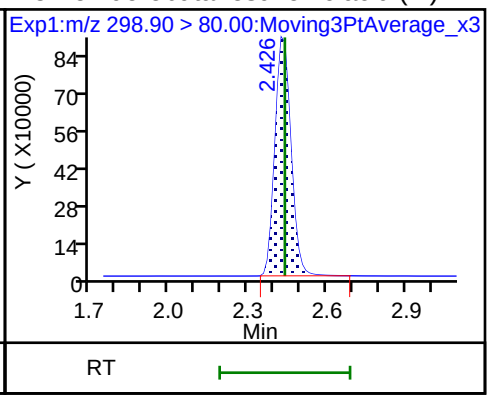
4 Perfluoropentanoic acid (M)



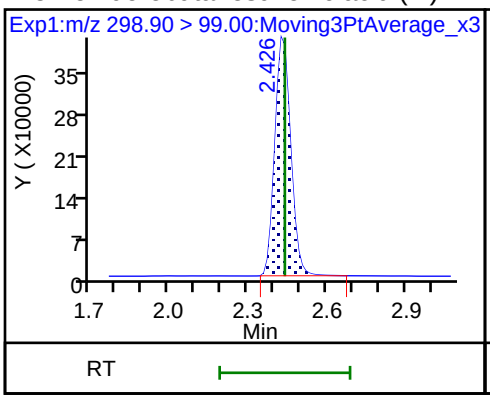
D 47 13C3 PFBS



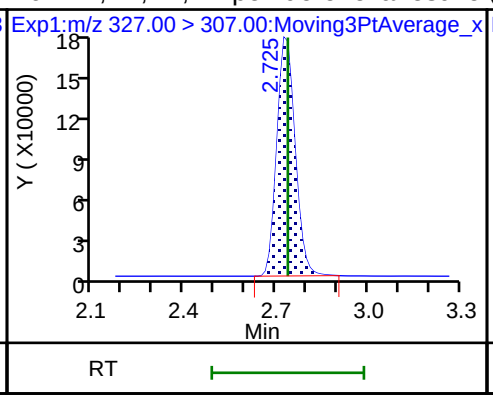
5 Perfluorobutanesulfonic acid (M)



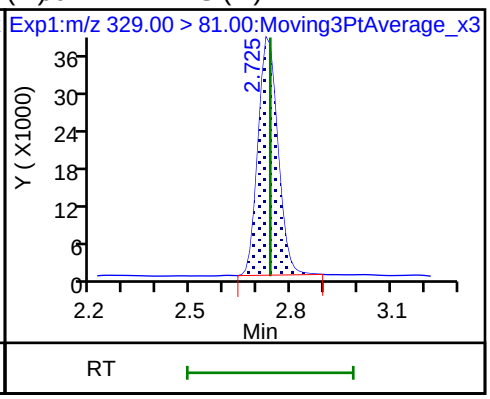
5 Perfluorobutanesulfonic acid (M)



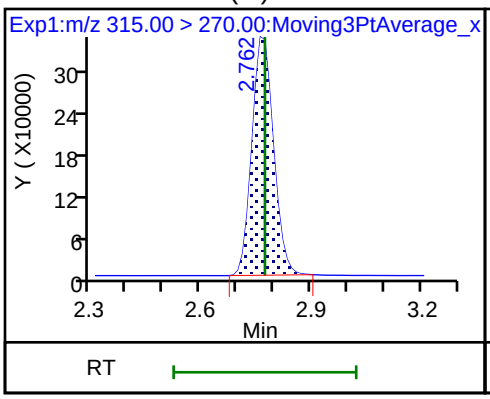
61 1H,1H,2H,2H-perfluorohexanesulfo (M)



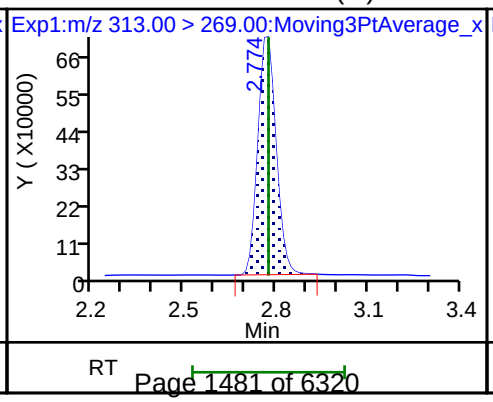
60 M2-4:2 FTS (M)



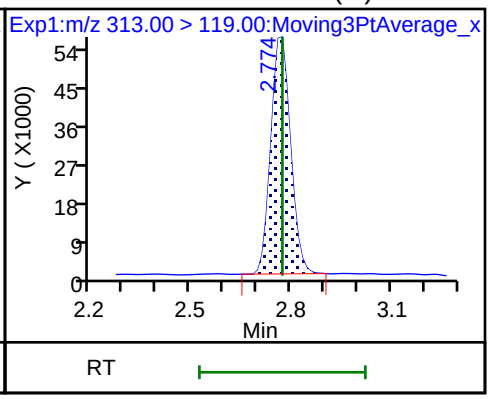
D 7 13C2 PFHxA (M)



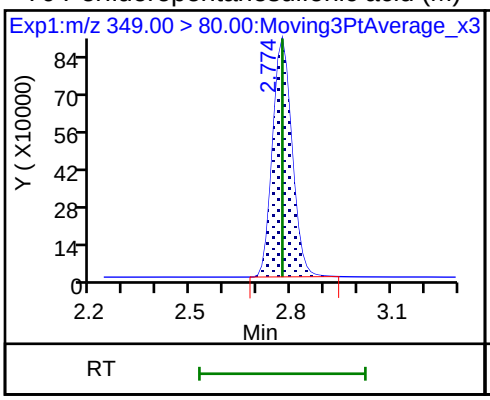
6 Perfluorohexanoic acid (M)



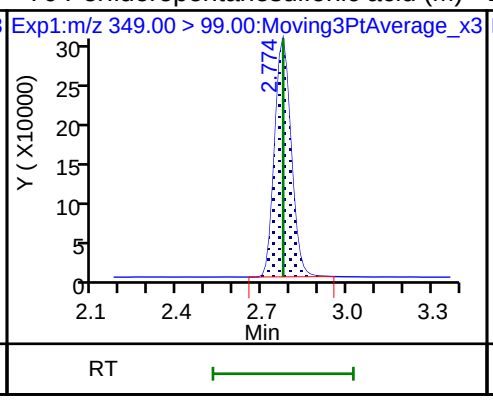
6 Perfluorohexanoic acid (M)



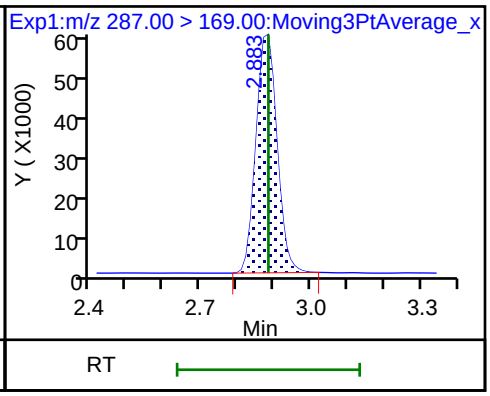
70 Perfluoropentanesulfonic acid (M)



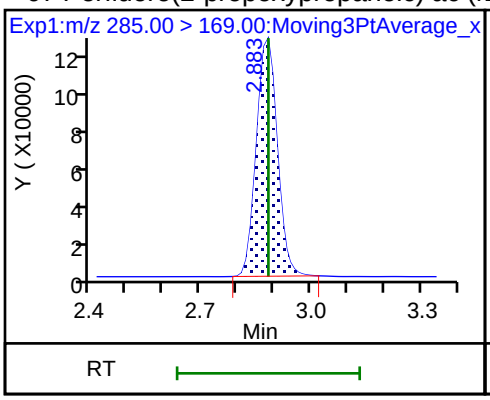
70 Perfluoropentanesulfonic acid (M)



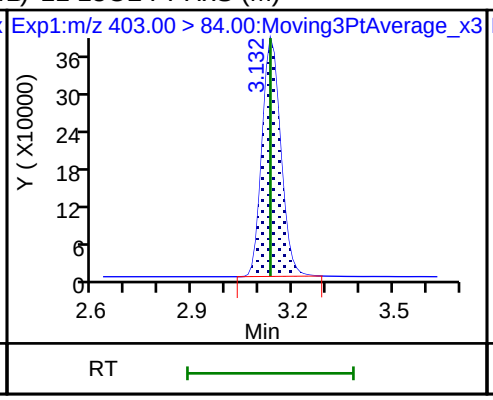
D 64 13C3 HFPO-DA



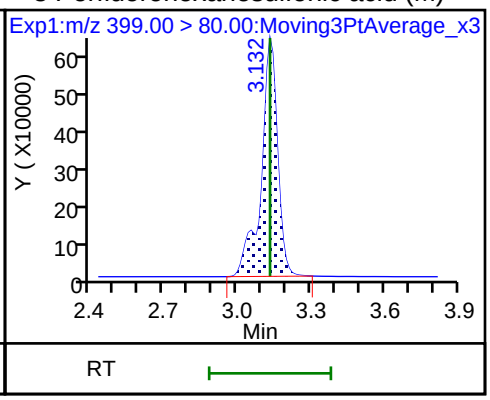
67 Perfluoro(2-propoxypropanoic) ac (M)



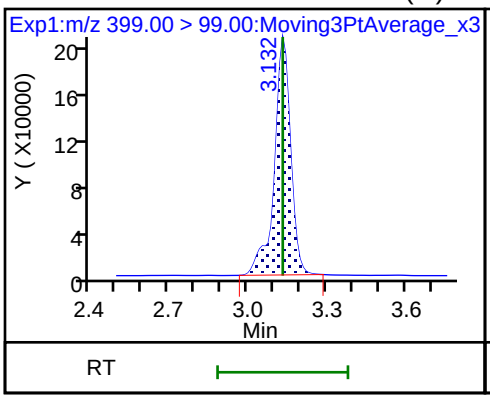
D 11 18O2 PFHxS (M)



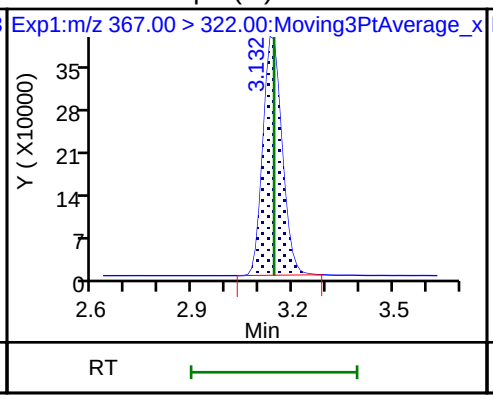
8 Perfluorohexanesulfonic acid (M)



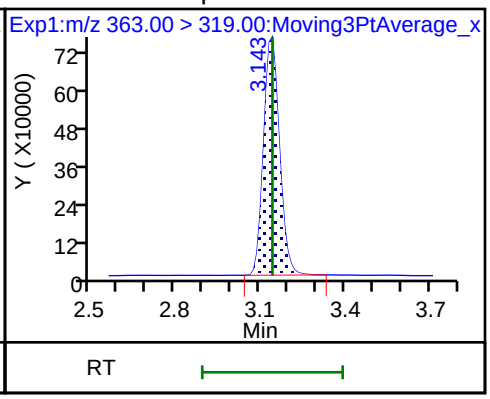
8 Perfluorohexanesulfonic acid (M)



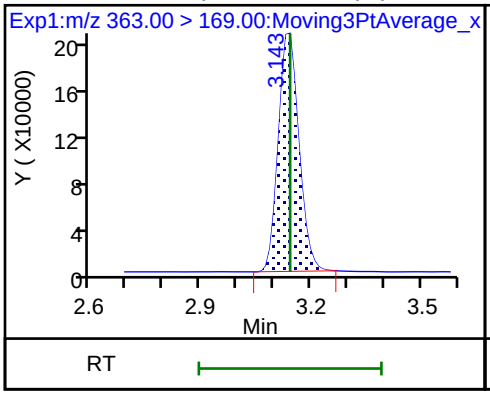
D 9 13C4 PFHpA (M)



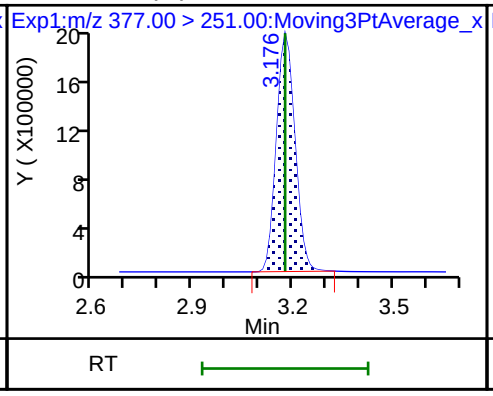
10 Perfluoroheptanoic acid



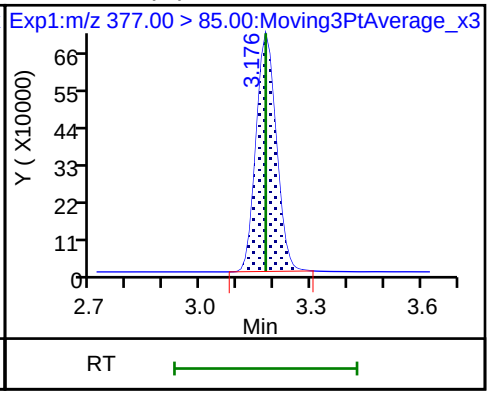
10 Perfluoroheptanoic acid (M)



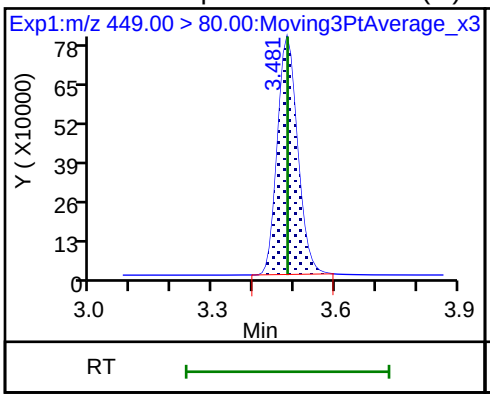
77 DONA (M)



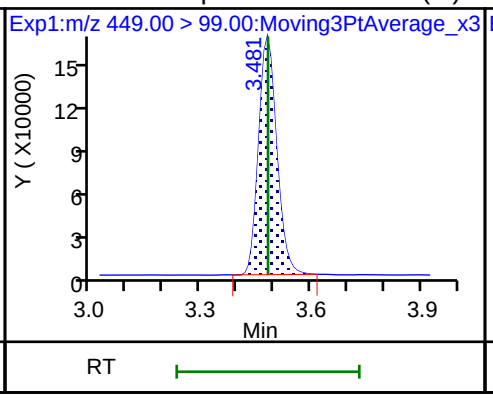
77 DONA (M)



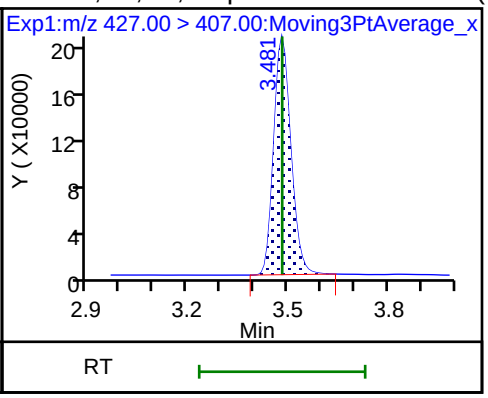
16 Perfluoroheptanesulfonic acid (M)



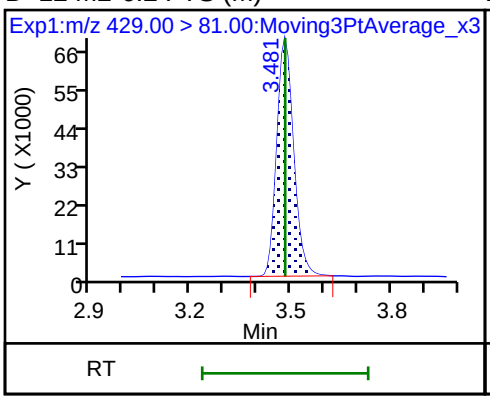
16 Perfluoroheptanesulfonic acid (M)



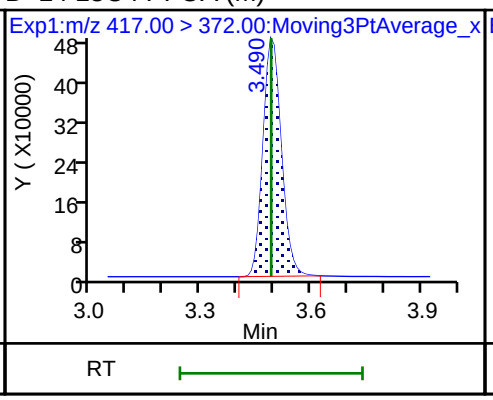
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



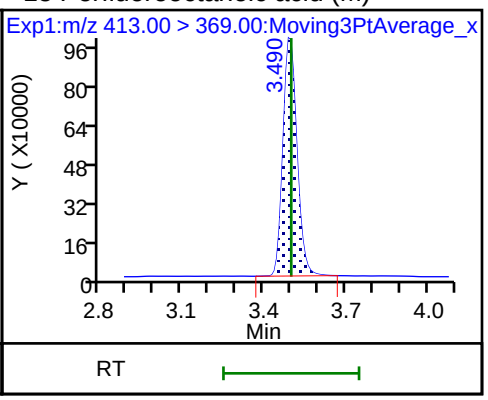
D 12 M2-6:2 FTS (M)



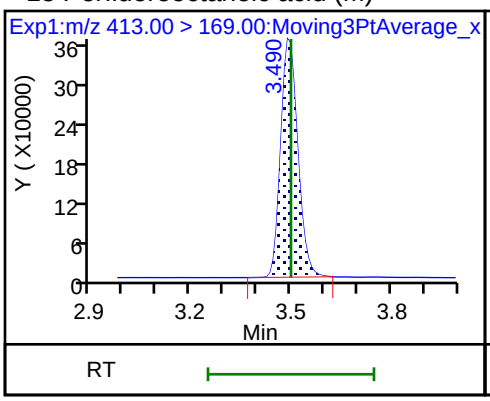
D 14 13C4 PFOA (M)



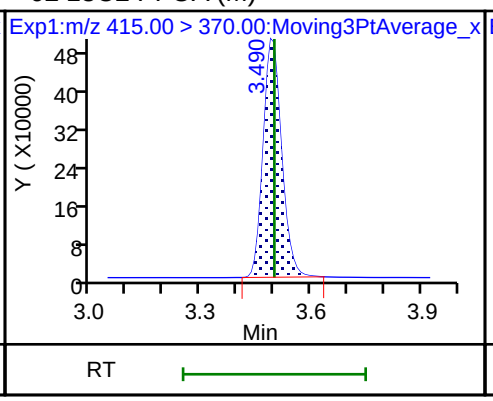
15 Perfluorooctanoic acid (M)



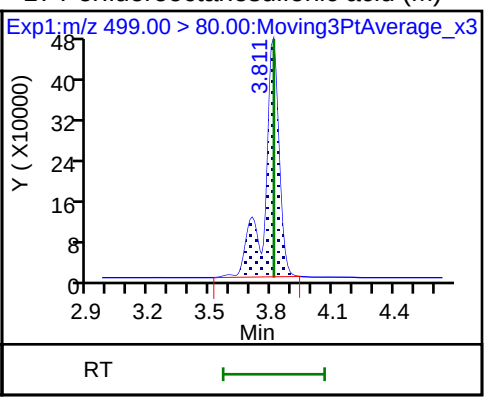
15 Perfluorooctanoic acid (M)



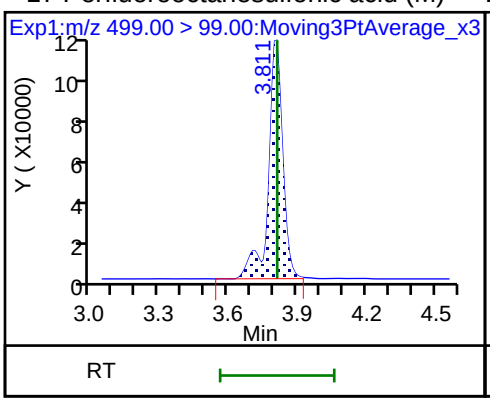
* 62 13C2 PFOA (M)



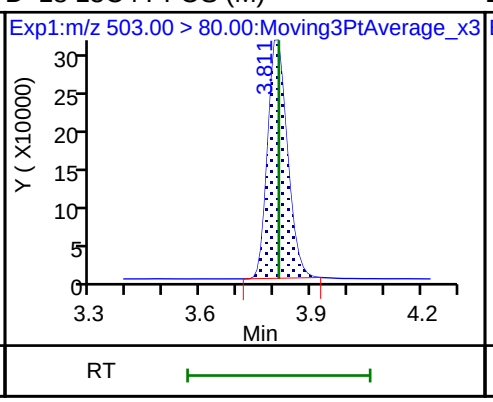
17 Perfluorooctanesulfonic acid (M)



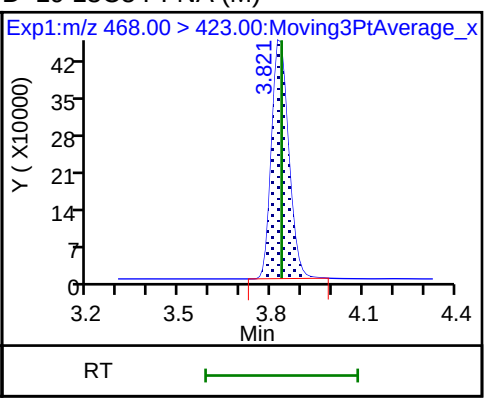
17 Perfluorooctanesulfonic acid (M)



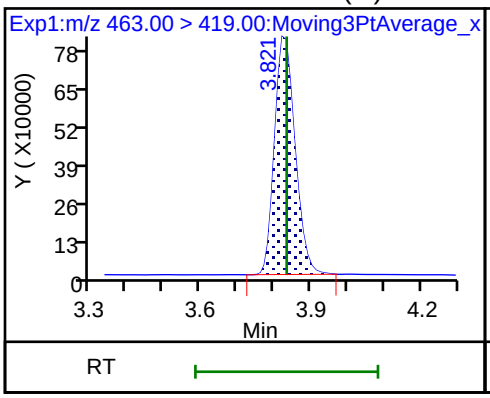
D 18 13C4 PFOS (M)



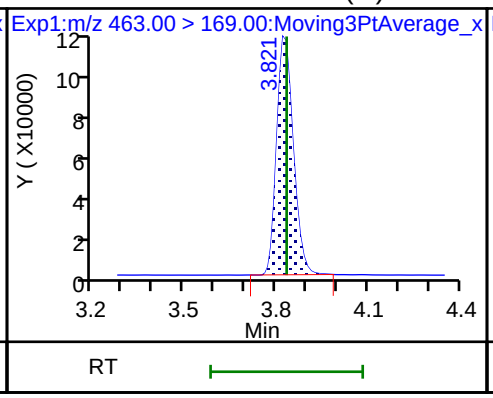
D 19 13C5 PFNA (M)



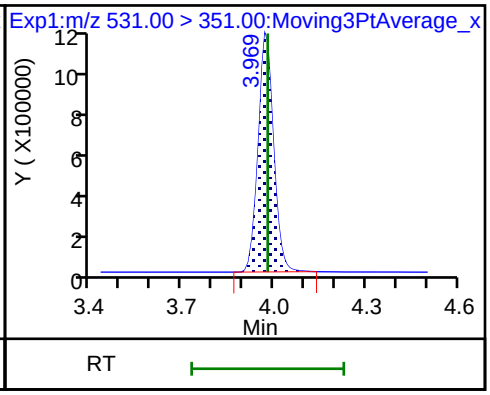
20 Perfluorononanoic acid (M)



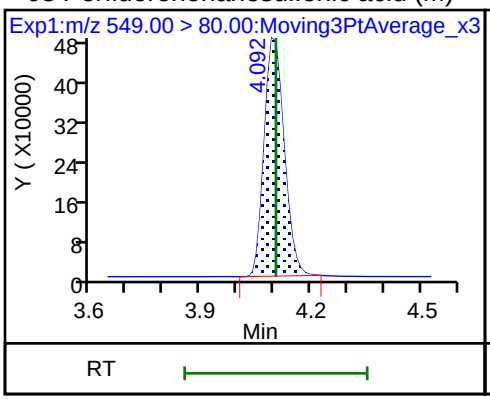
20 Perfluorononanoic acid (M)



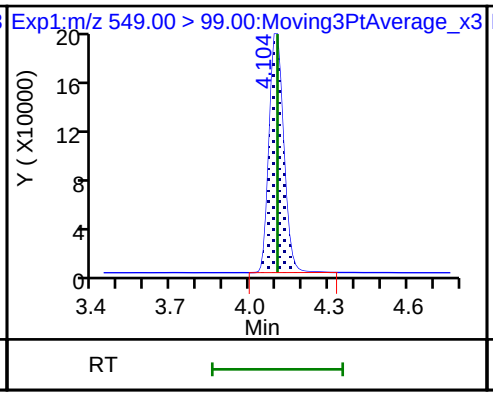
69 9-Chlorohexadecafluoro-3-oxanona (M)



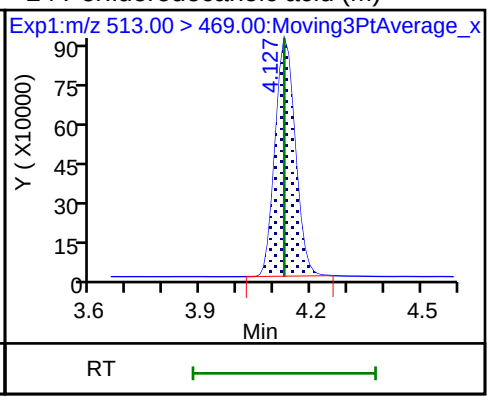
68 Perfluorononanesulfonic acid (M)



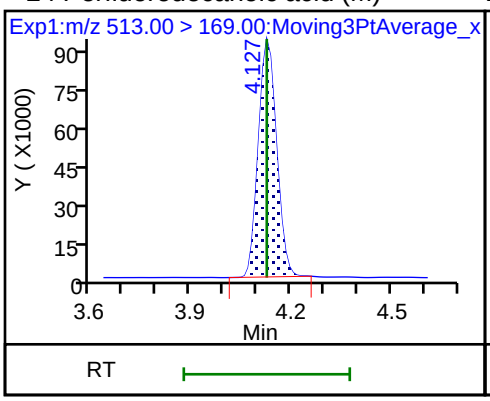
68 Perfluorononanesulfonic acid



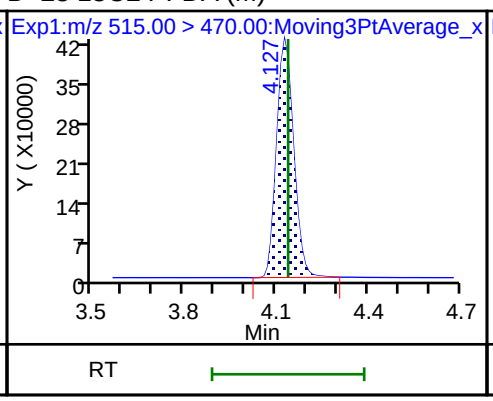
24 Perfluorodecanoic acid (M)



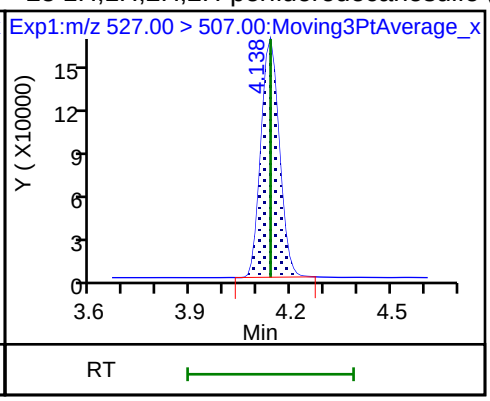
24 Perfluorodecanoic acid (M)



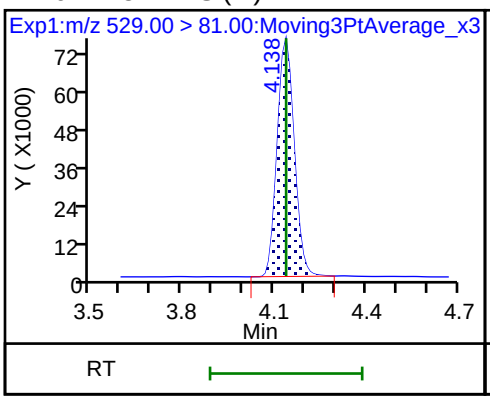
D 23 13C2 PFDA (M)



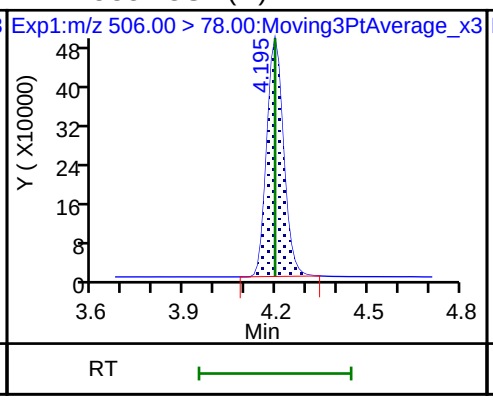
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



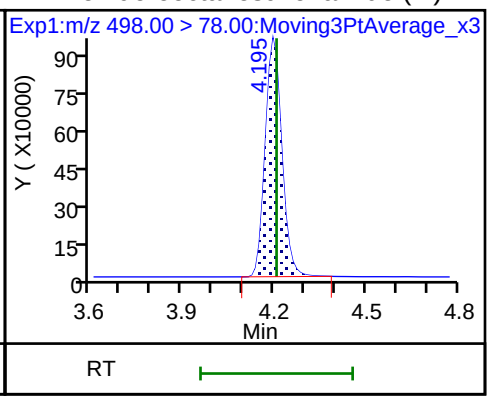
D 26 M2-8:2 FTS (M)



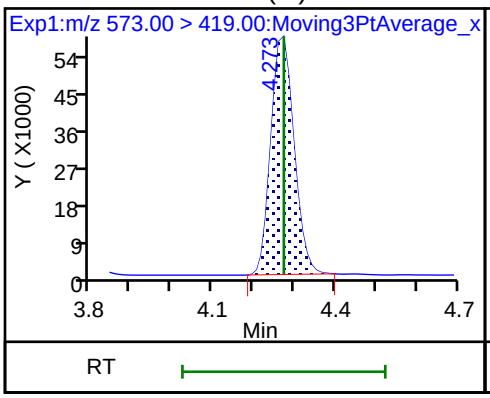
D 21 13C8 FOSA (M)



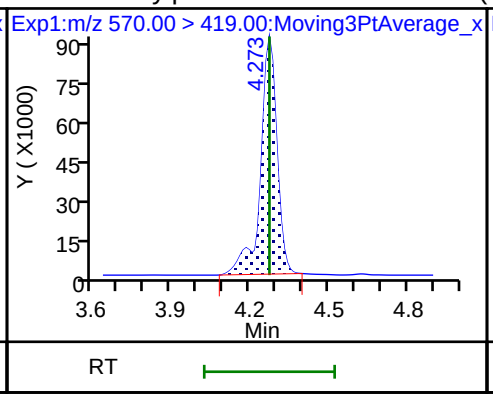
22 Perfluorooctanesulfonamide (M)



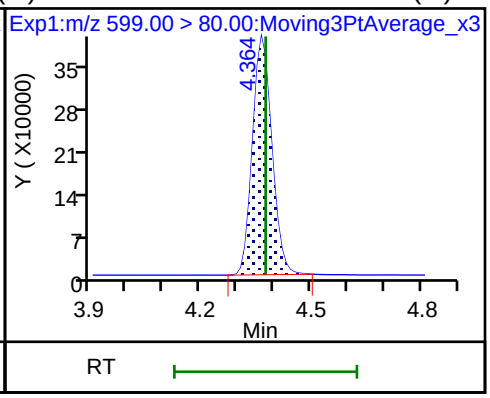
D 27 d3-NMeFOSAA (M)



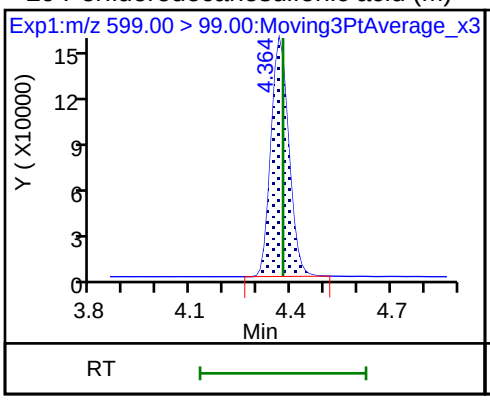
28 N-methylperfluorooctanesulfonami (M)



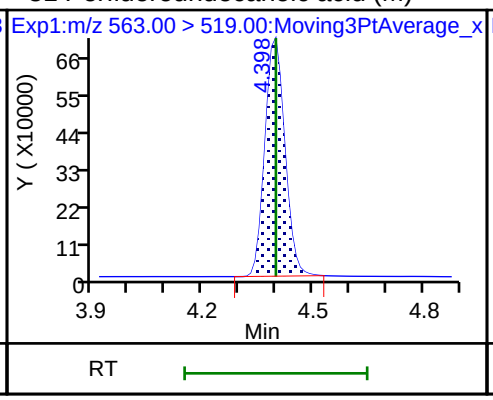
29 Perfluorodecanesulfonic acid (M)



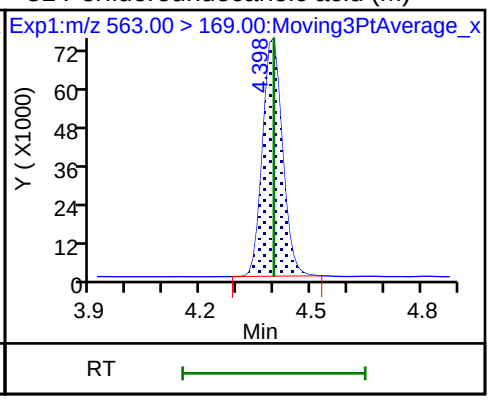
29 Perfluorodecanesulfonic acid (M)



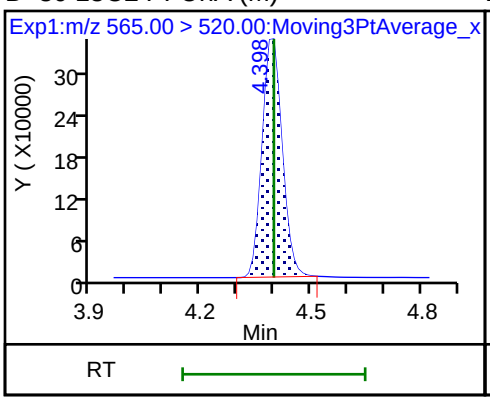
31 Perfluoroundecanoic acid (M)



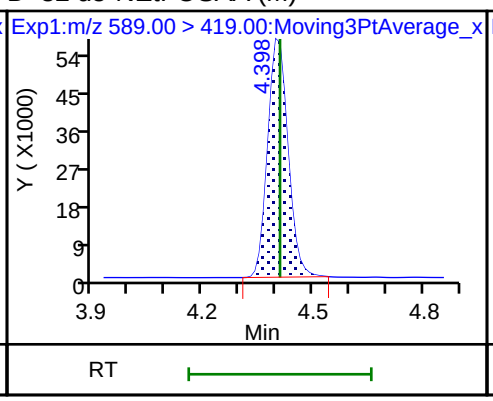
31 Perfluoroundecanoic acid (M)



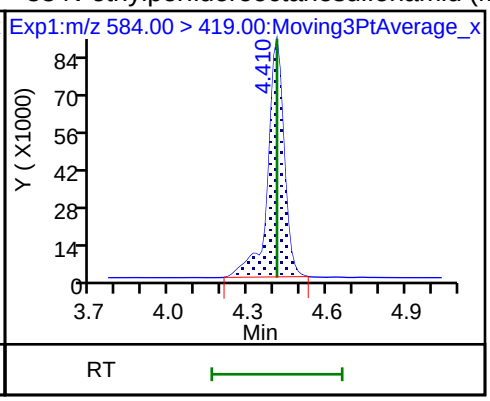
D 30 13C2 PFUnA (M)



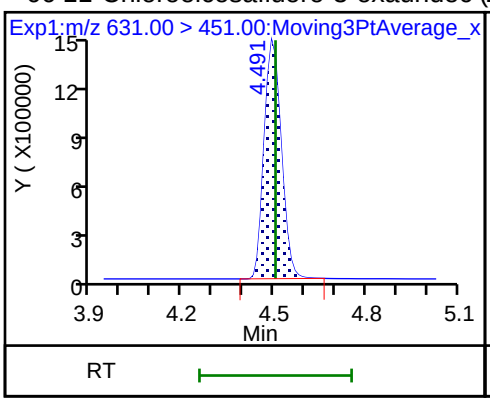
D 32 d5-NEtFOSAA (M)



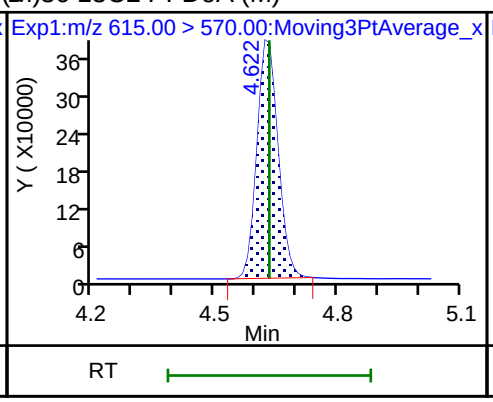
33 N-ethylperfluorooctanesulfonamid (M)



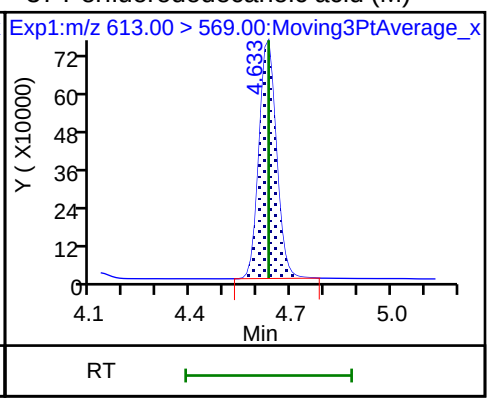
66 11-Chloroeicosafluoro-3-oxaundec (M)



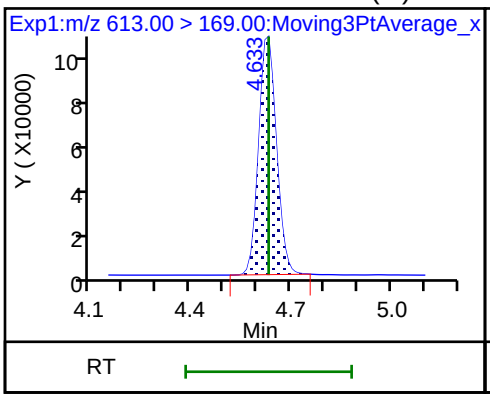
D 36 13C2 PFDoA (M)



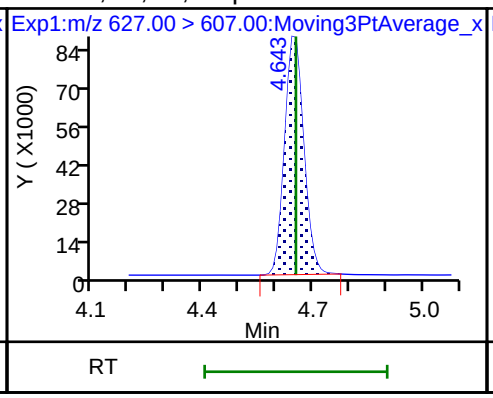
37 Perfluorododecanoic acid (M)



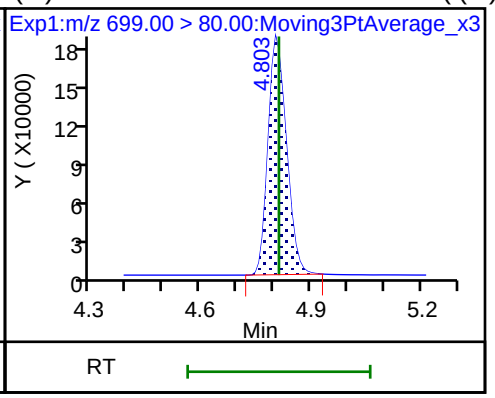
37 Perfluorododecanoic acid (M)



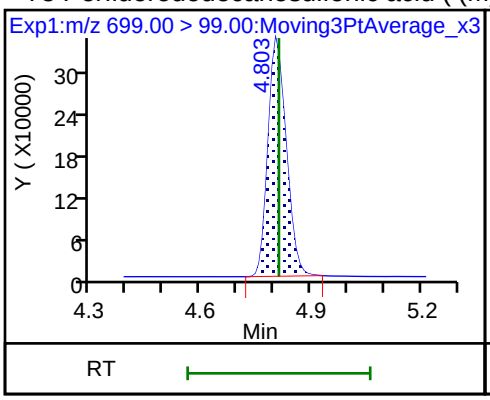
74 1H,1H,2H,2H-perfluorododecanesul (M)



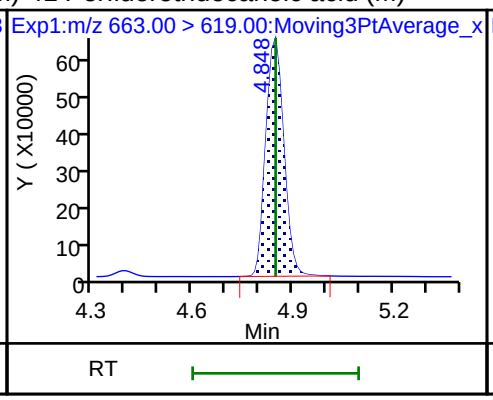
75 Perfluorododecanesulfonic acid ((M)



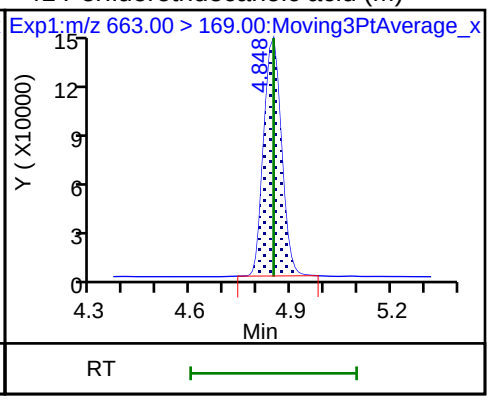
75 Perfluorododecanesulfonic acid ((M)



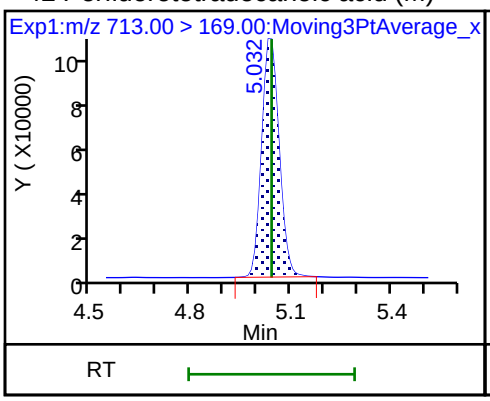
41 Perfluorotridecanoic acid (M)



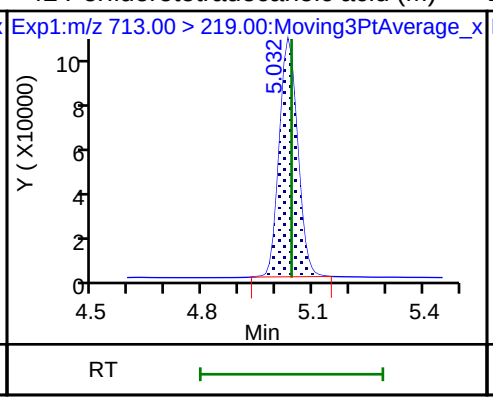
41 Perfluorotridecanoic acid (M)



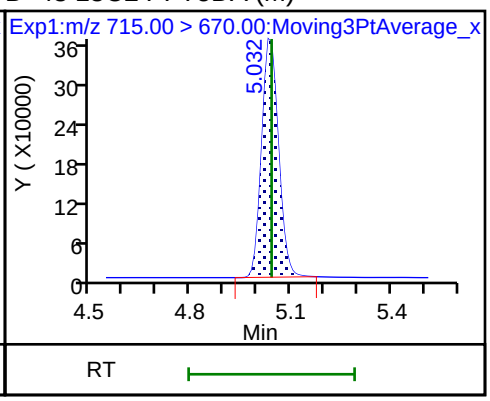
42 Perfluorotetradecanoic acid (M)



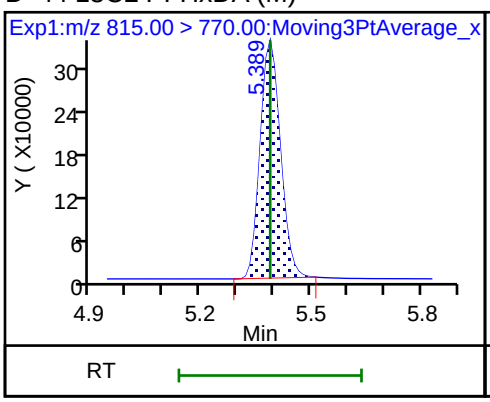
42 Perfluorotetradecanoic acid (M)



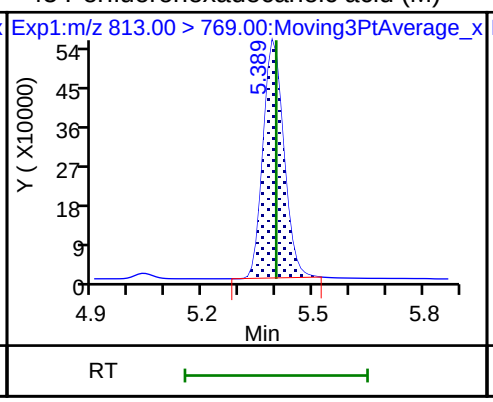
D 43 13C2 PFTeDA (M)



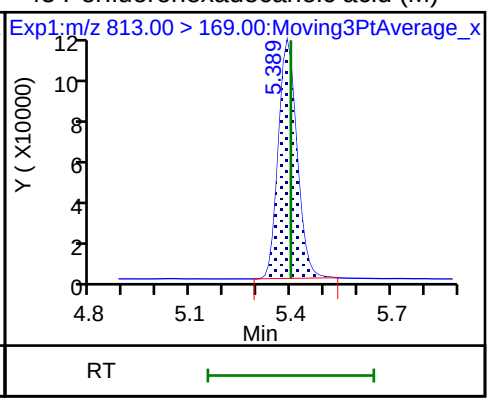
D 44 13C2 PFHxDA (M)



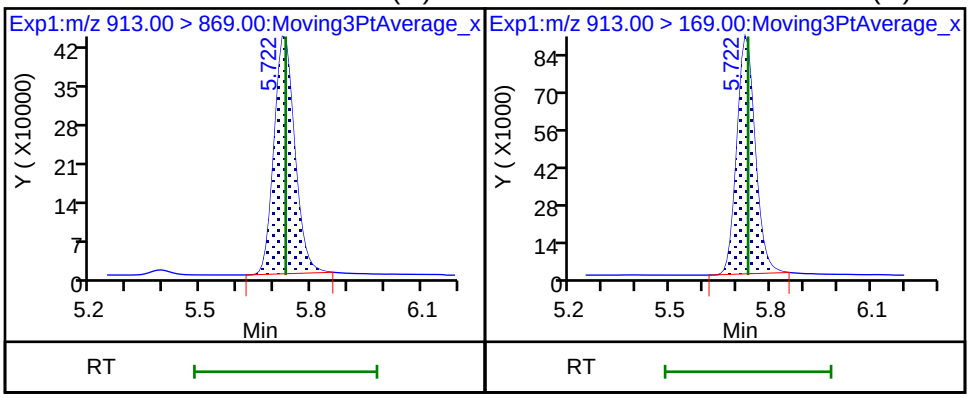
45 Perfluorohexadecanoic acid (M)



45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M) 46 Perfluorooctadecanoic acid (M)



Manual Integration/User Assign Peak Report

Eurofins Burlington

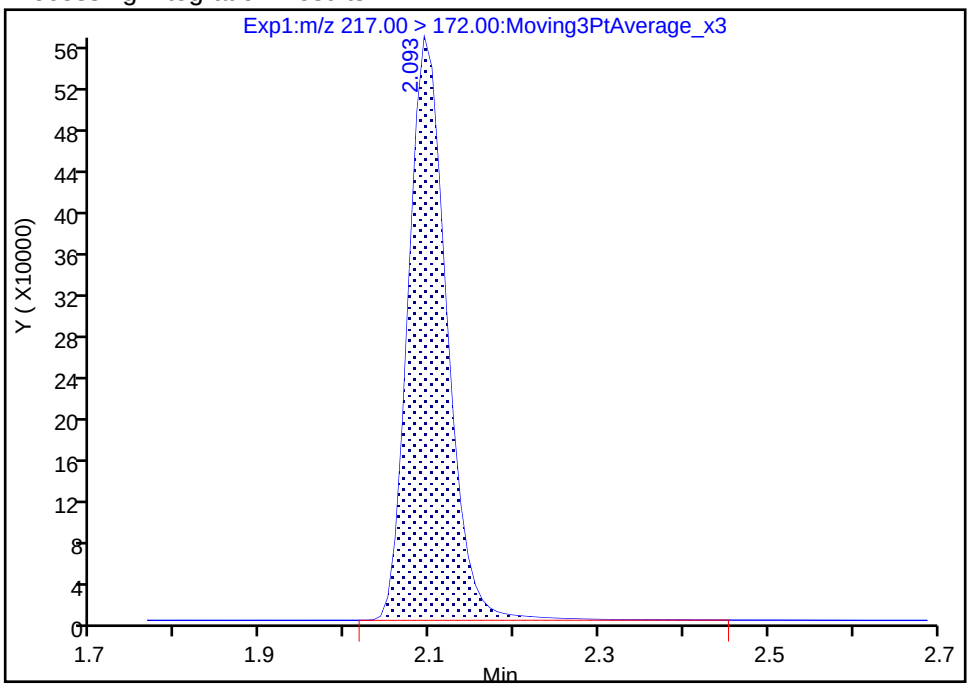
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

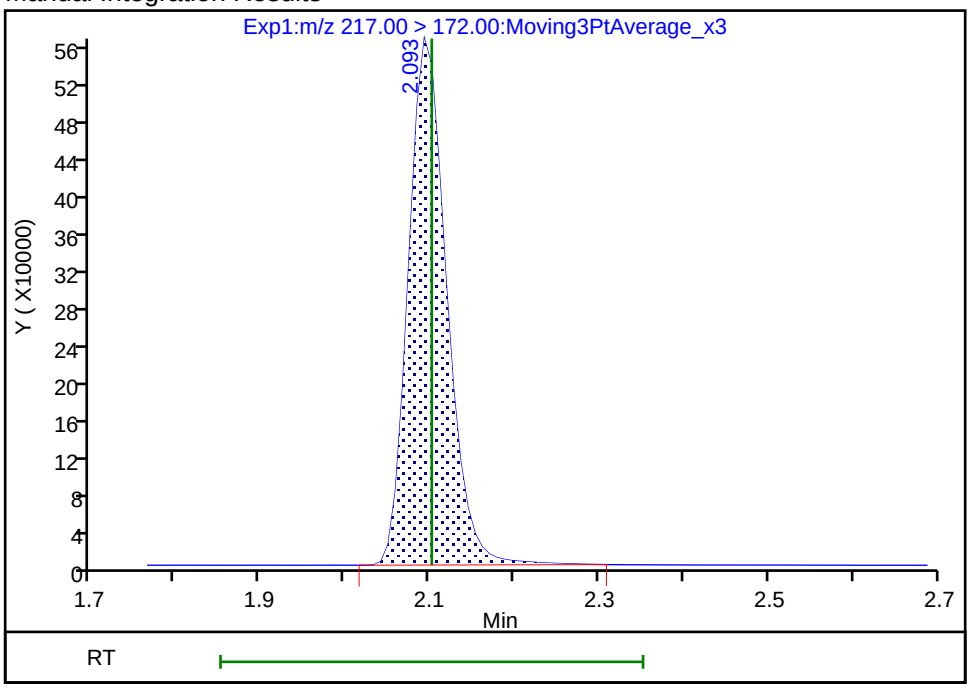
Processing Integration Results

RT: 2.09
Area: 1790069
Amount: 1.212638
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 1783532
Amount: 1.212798
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:00:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

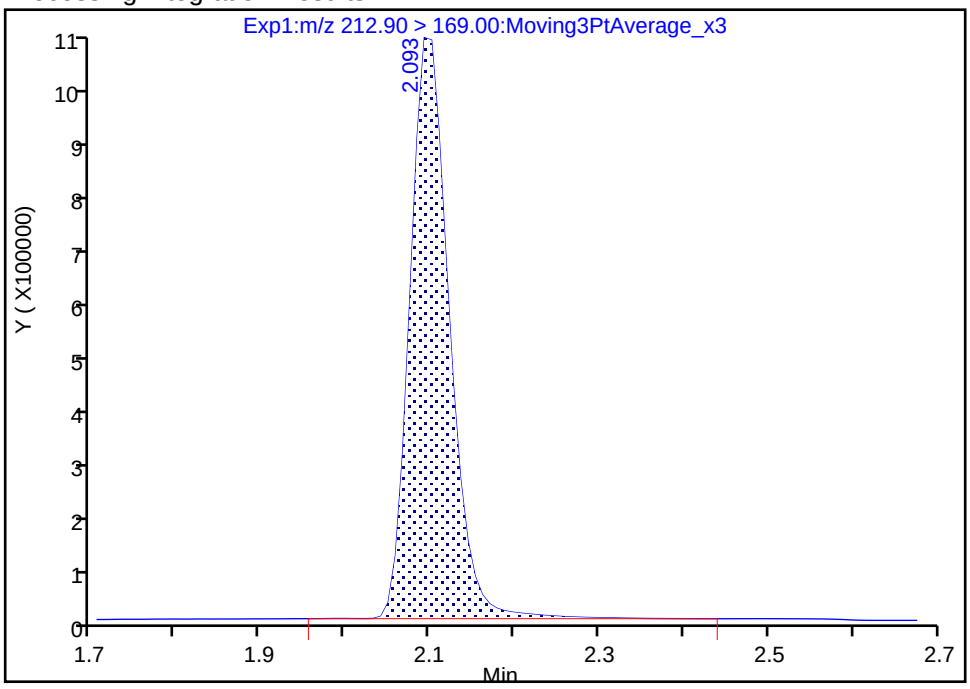
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

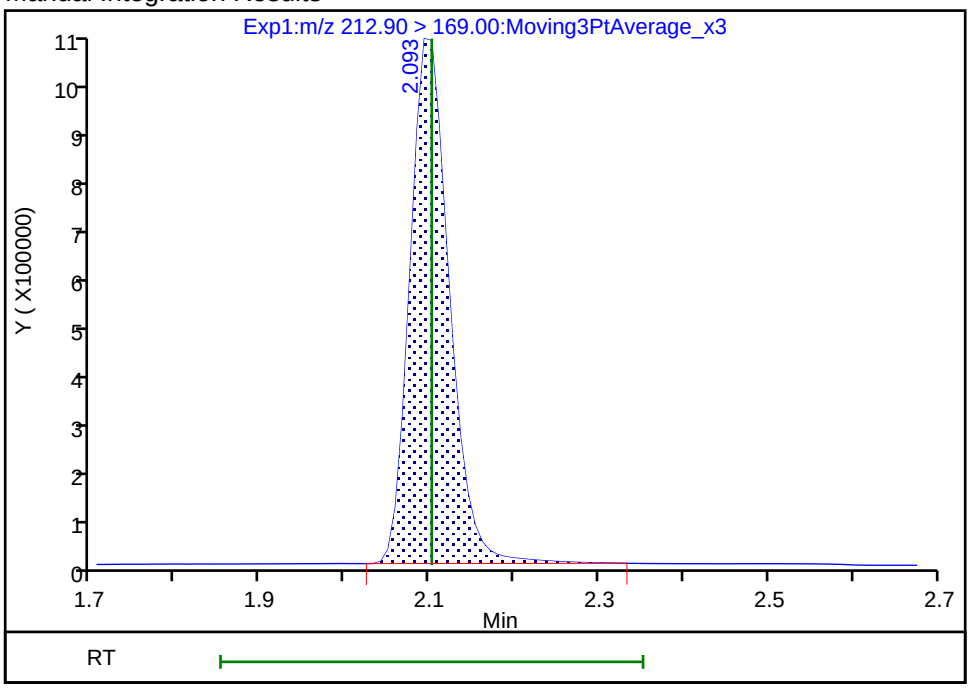
Processing Integration Results

RT: 2.09
Area: 3229955
Amount: 2.376164
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 3217740
Amount: 2.389719
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:00:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

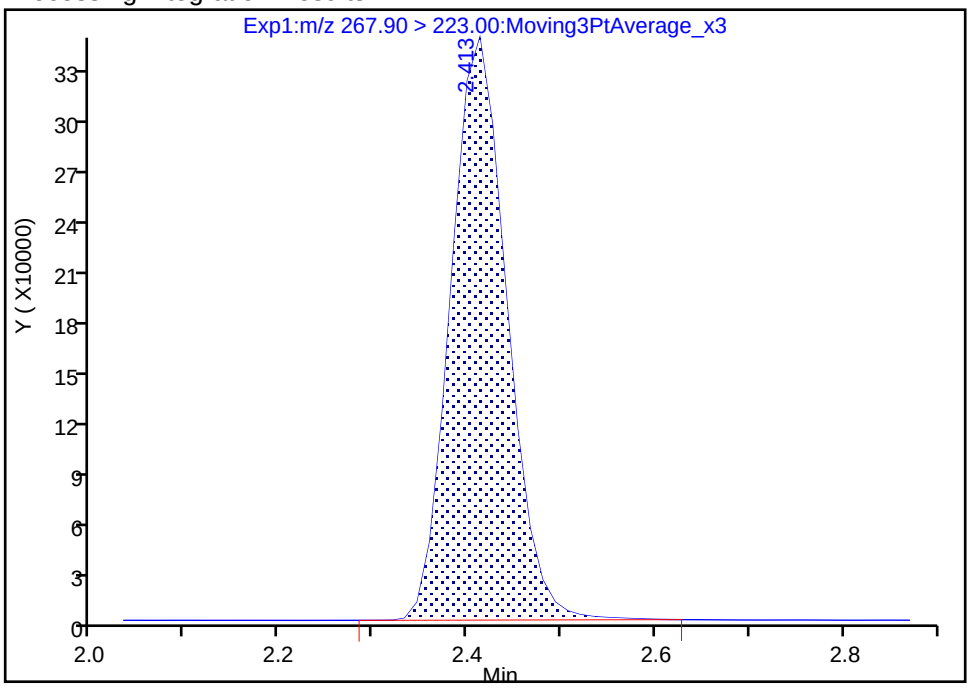
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 3 13C5 PFPeA, CAS: STL01893

Signal: 1

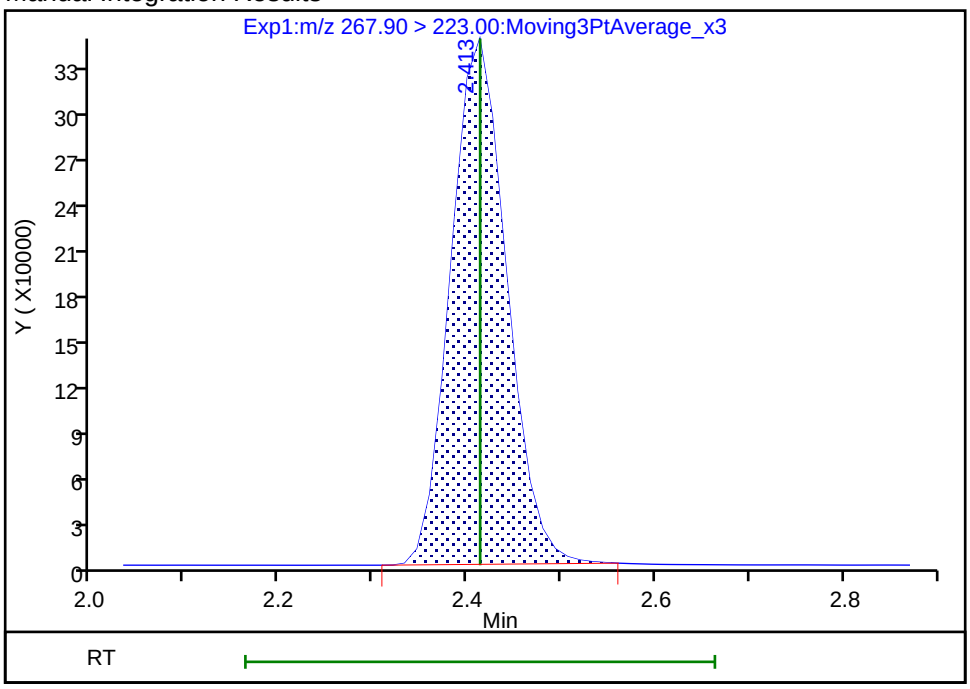
Processing Integration Results

RT: 2.41
Area: 1416965
Amount: 1.251134
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 1407730
Amount: 1.252300
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:00:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

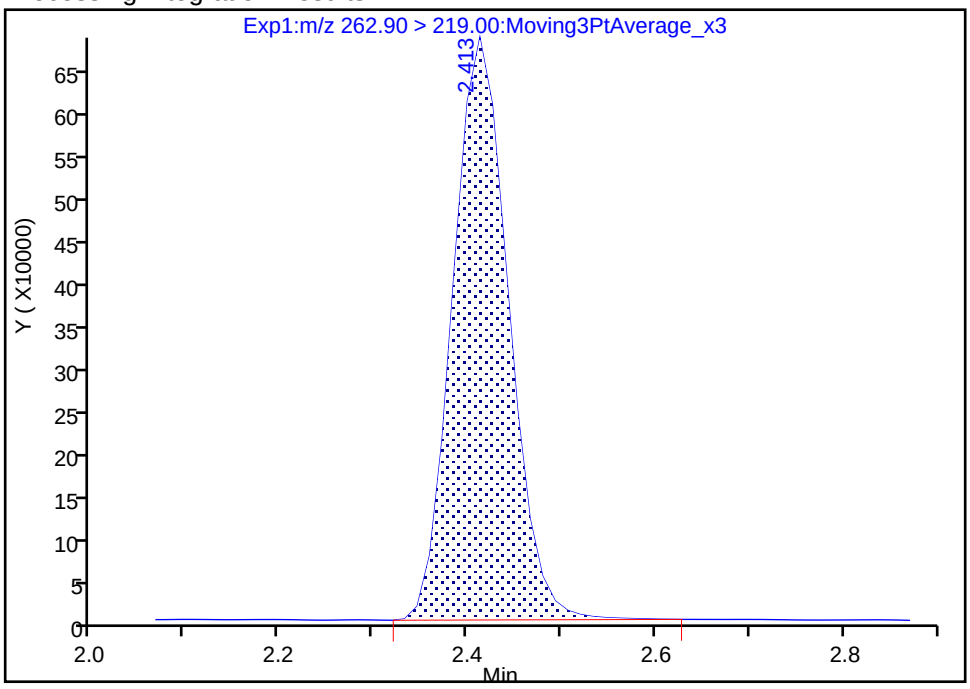
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

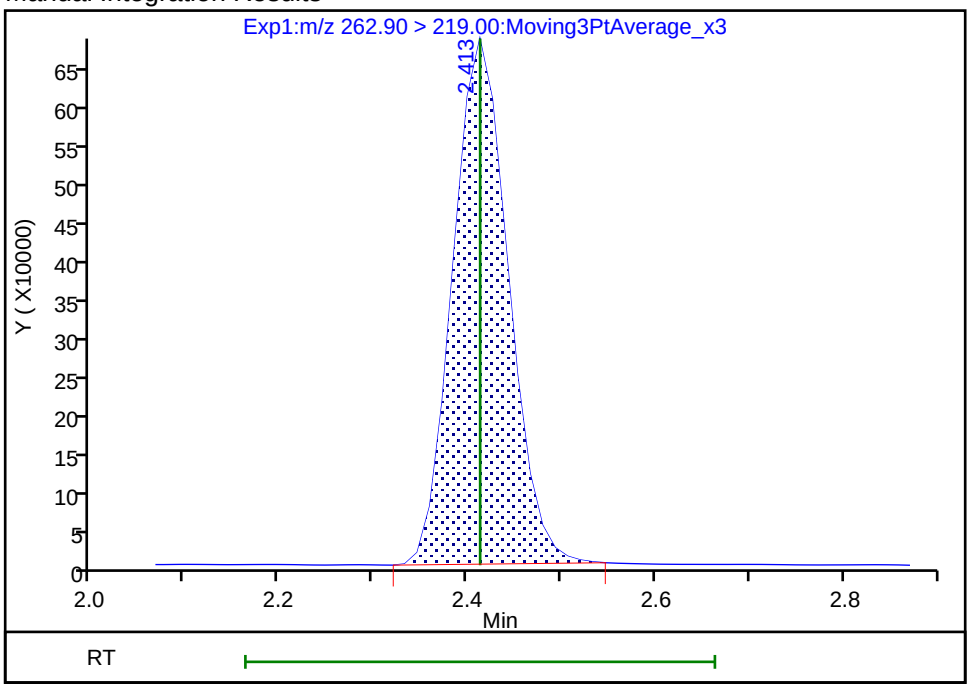
Processing Integration Results

RT: 2.41
Area: 2788769
Amount: 2.414643
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 2768542
Amount: 2.412164
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:00:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

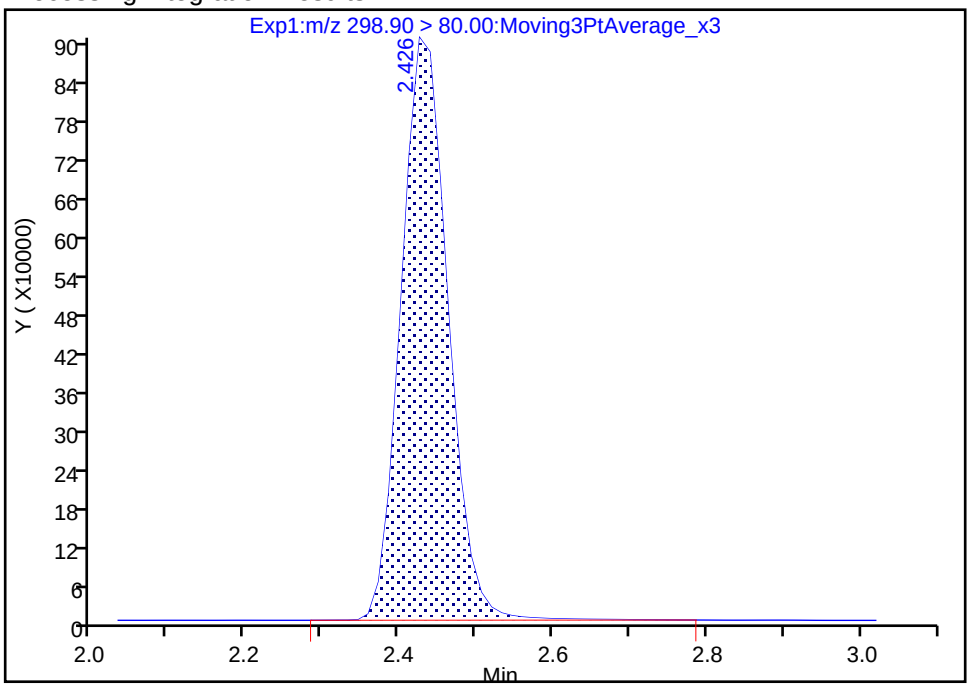
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

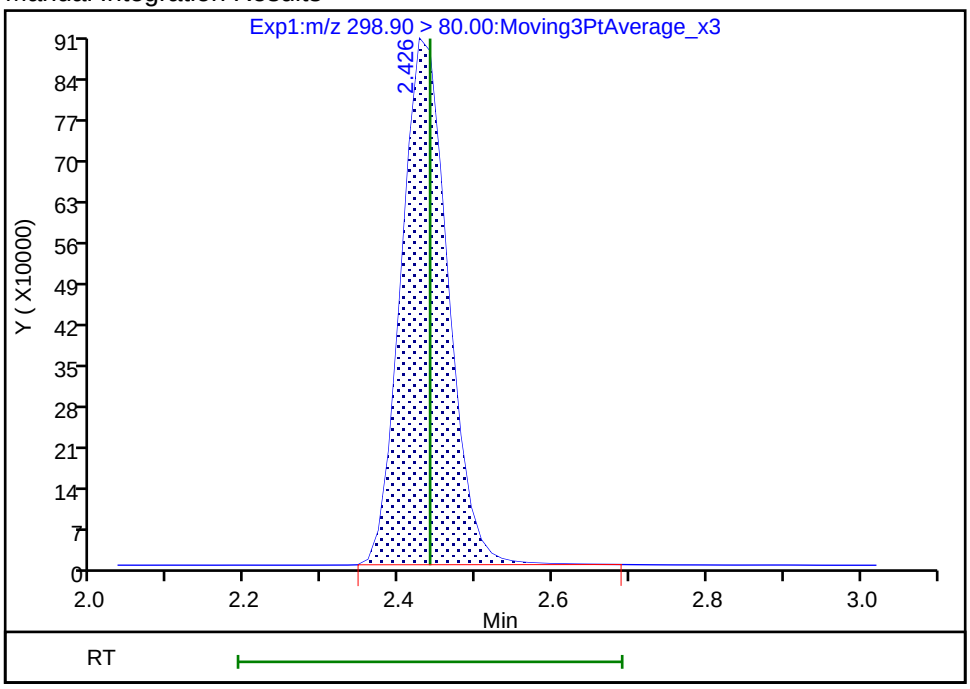
Processing Integration Results

RT: 2.43
Area: 3805240
Amount: 2.165274
Amount Units: ng/ml



Manual Integration Results

RT: 2.43
Area: 3789288
Amount: 2.151133
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:00:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

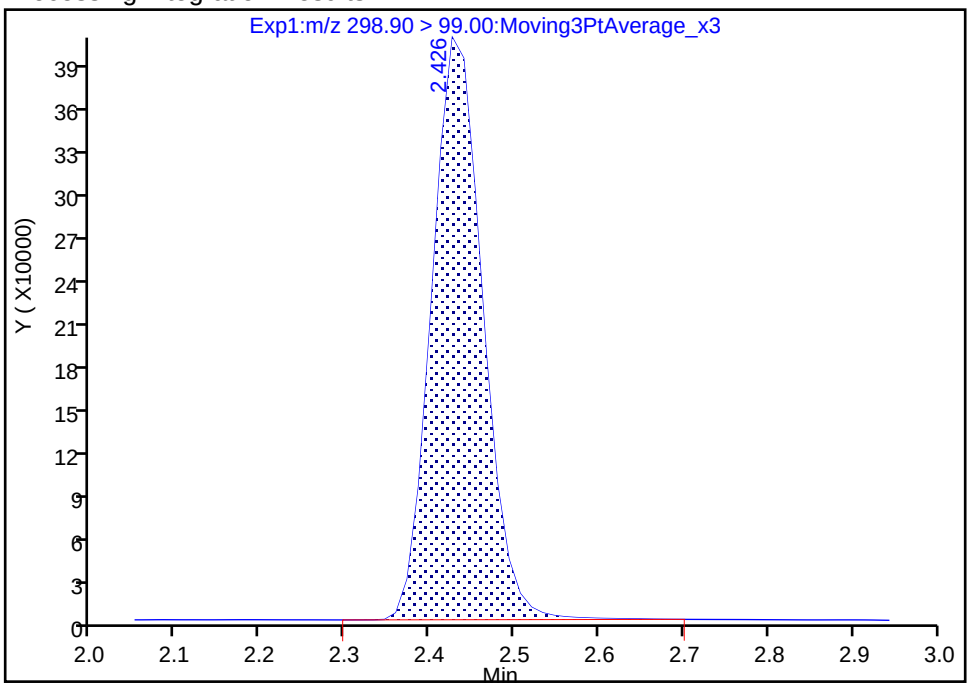
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

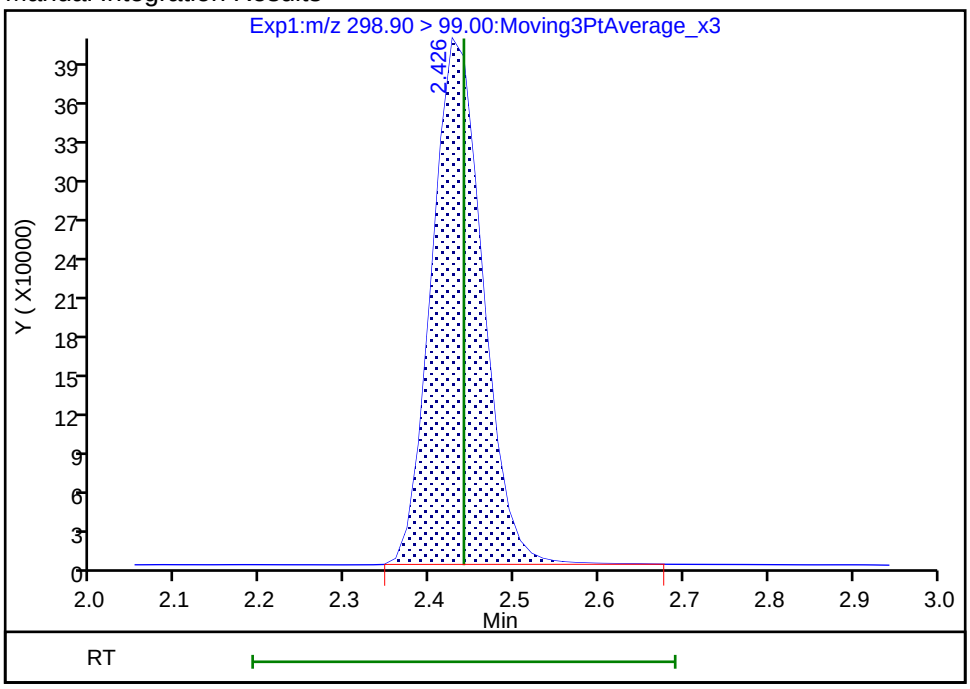
Processing Integration Results

RT: 2.43
Area: 1711094
Amount: 2.165274
Amount Units: ng/ml



Manual Integration Results

RT: 2.43
Area: 1707179
Amount: 2.151133
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:00:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

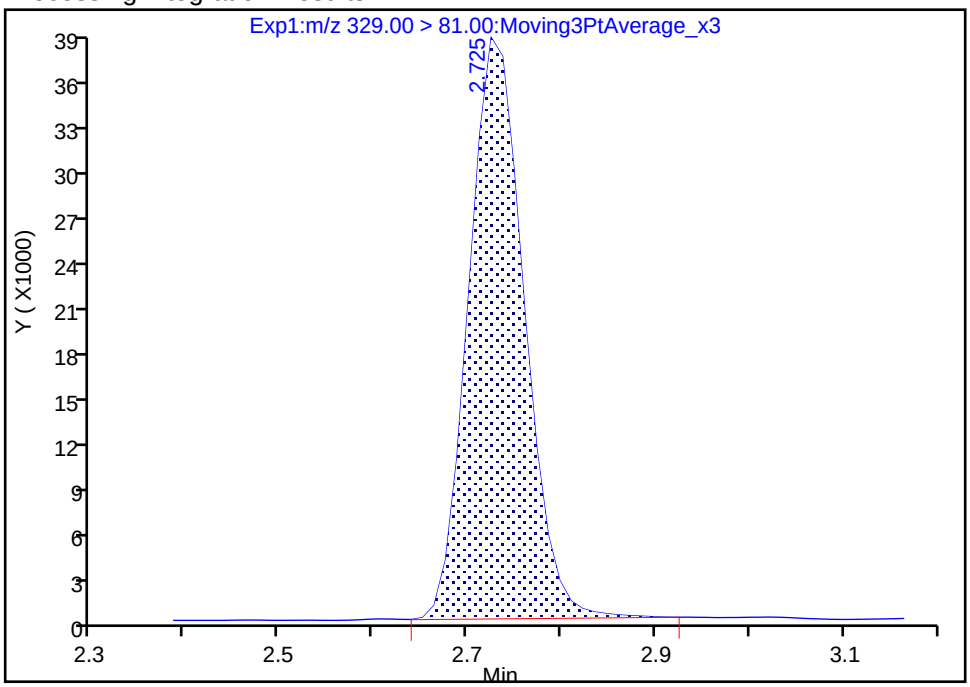
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

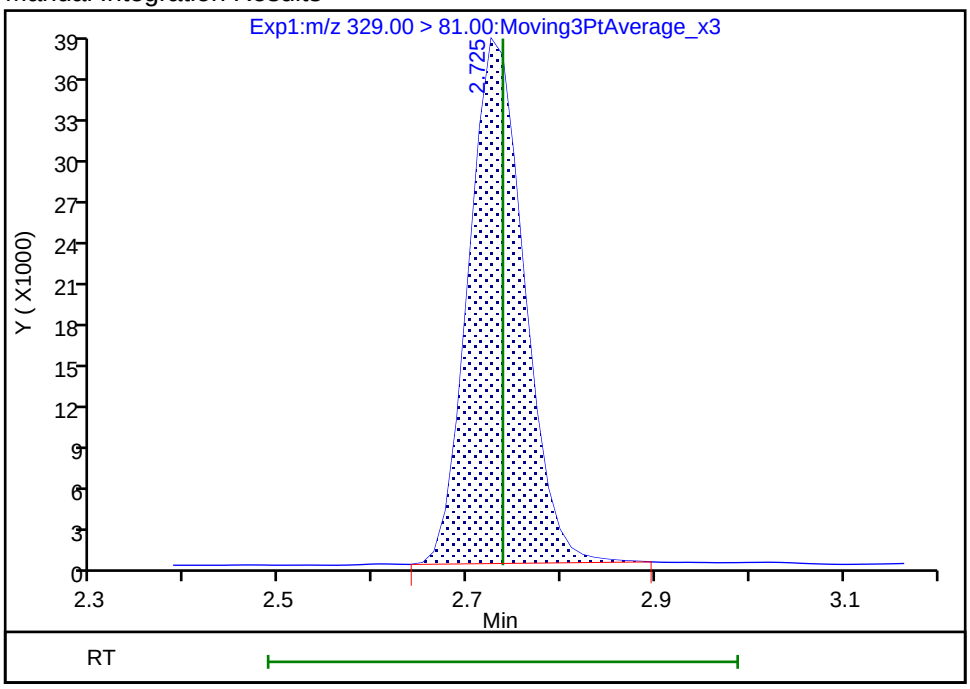
Processing Integration Results

RT: 2.73
Area: 159033
Amount: 1.163417
Amount Units: ng/ml



Manual Integration Results

RT: 2.73
Area: 158459
Amount: 1.175349
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:00:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

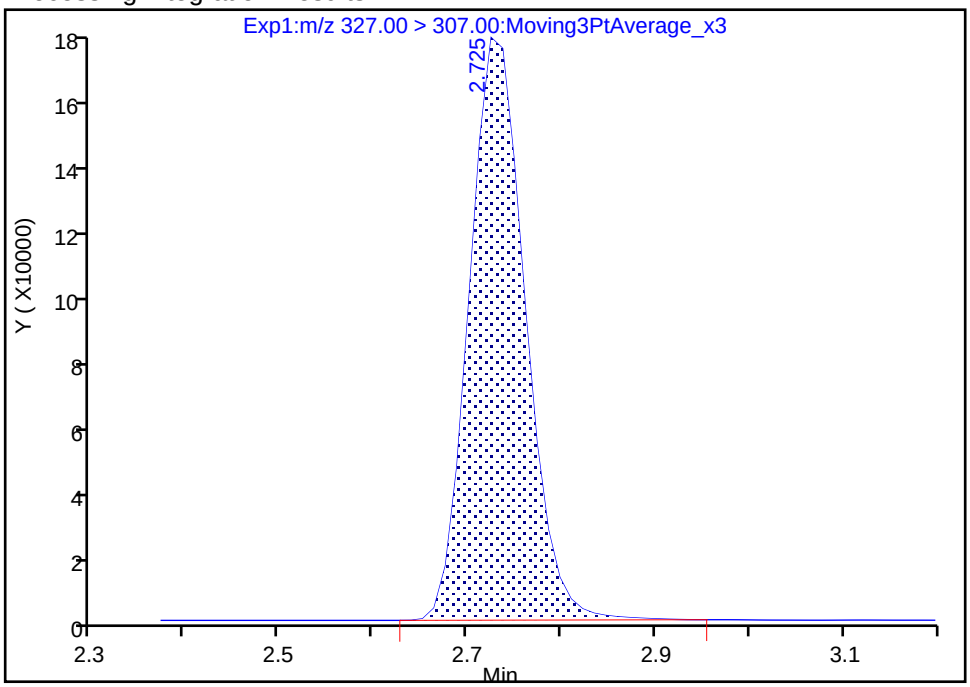
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

61 1H,1H,2H,2H-perfluorohexanesulfo, CAS: 757124-72-4

Signal: 1

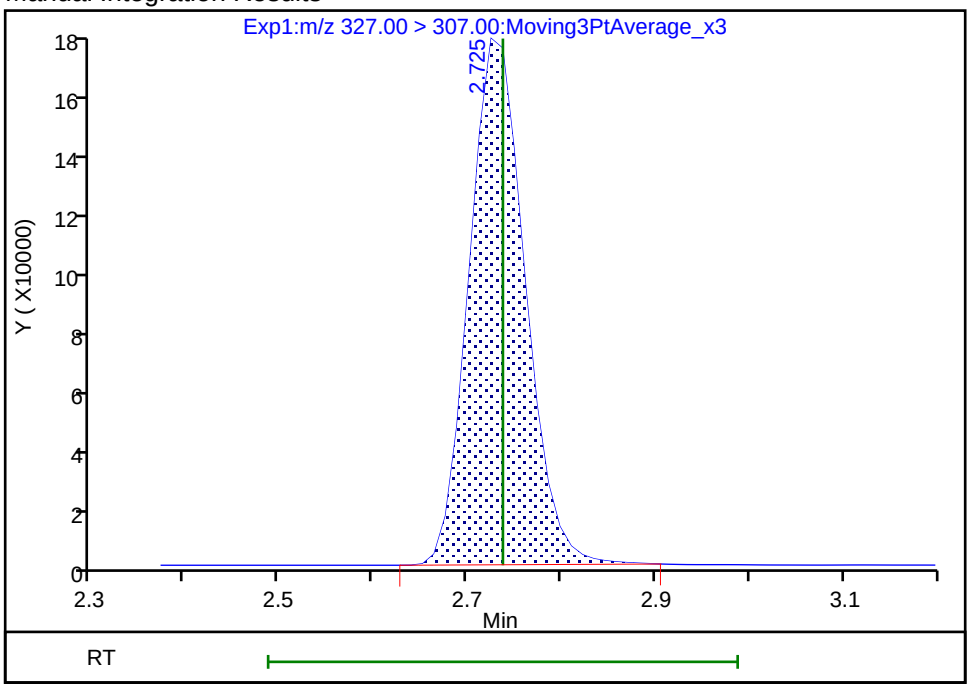
Processing Integration Results

RT: 2.73
Area: 740023
Amount: 2.152665
Amount Units: ng/ml



Manual Integration Results

RT: 2.73
Area: 737713
Amount: 2.164956
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:00:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

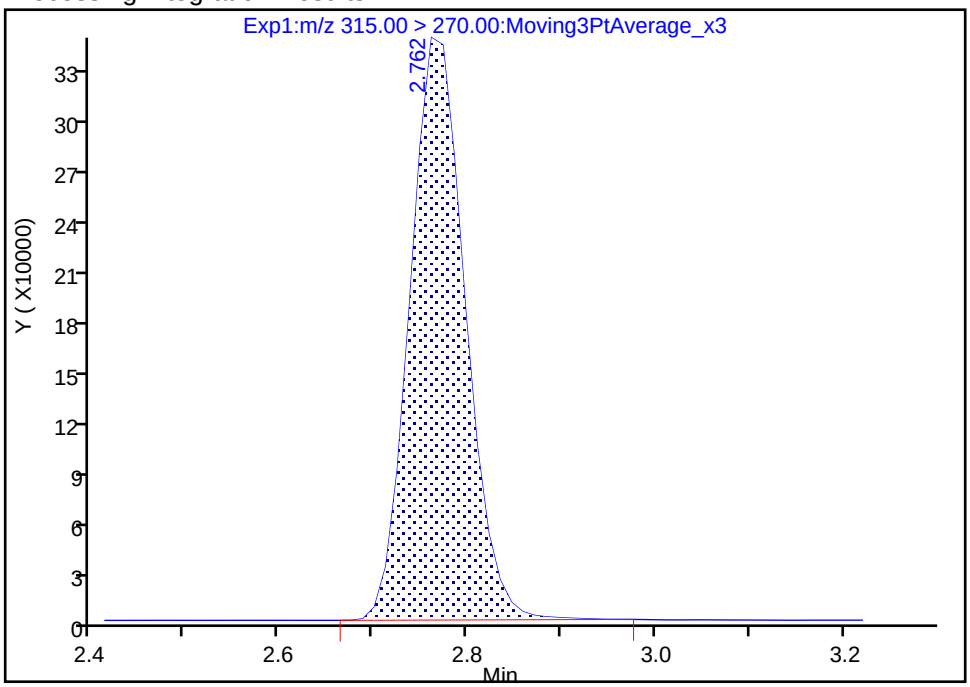
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

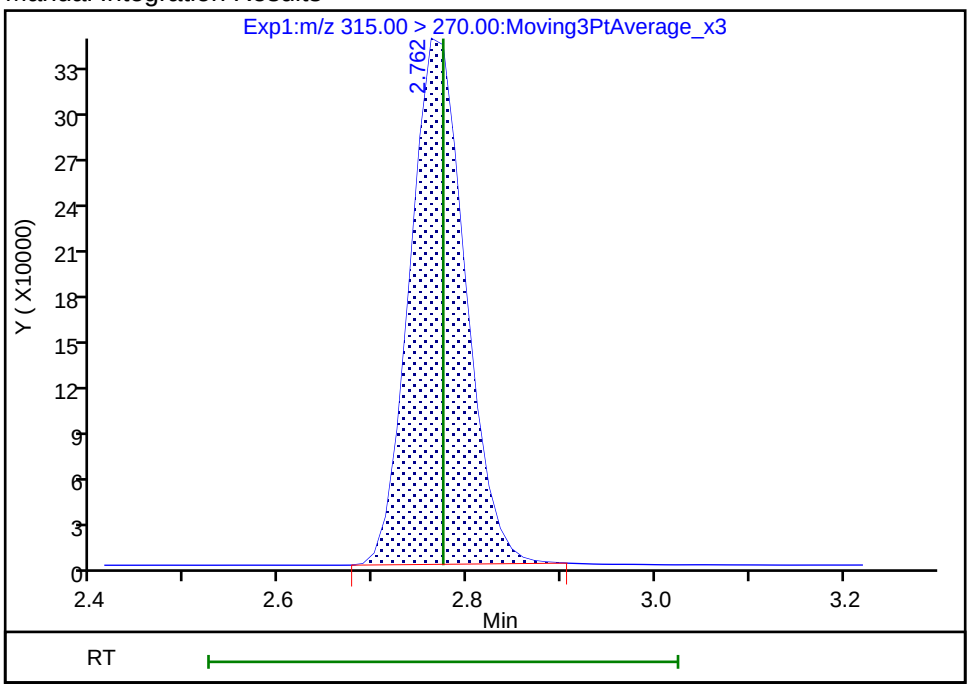
Processing Integration Results

RT: 2.76
Area: 1404520
Amount: 1.216447
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 1396626
Amount: 1.214977
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:01:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

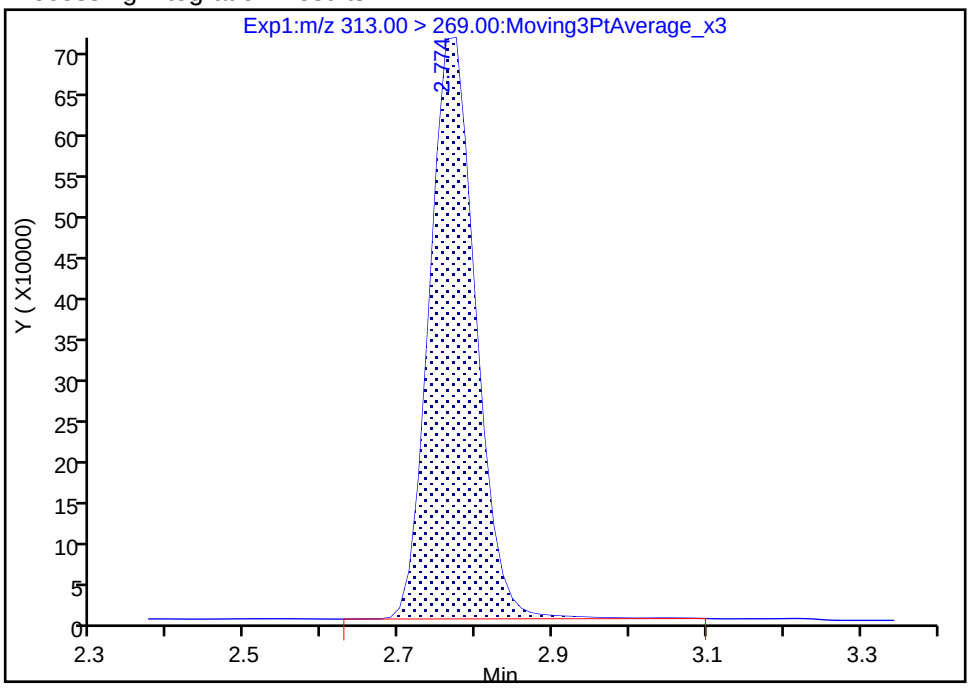
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

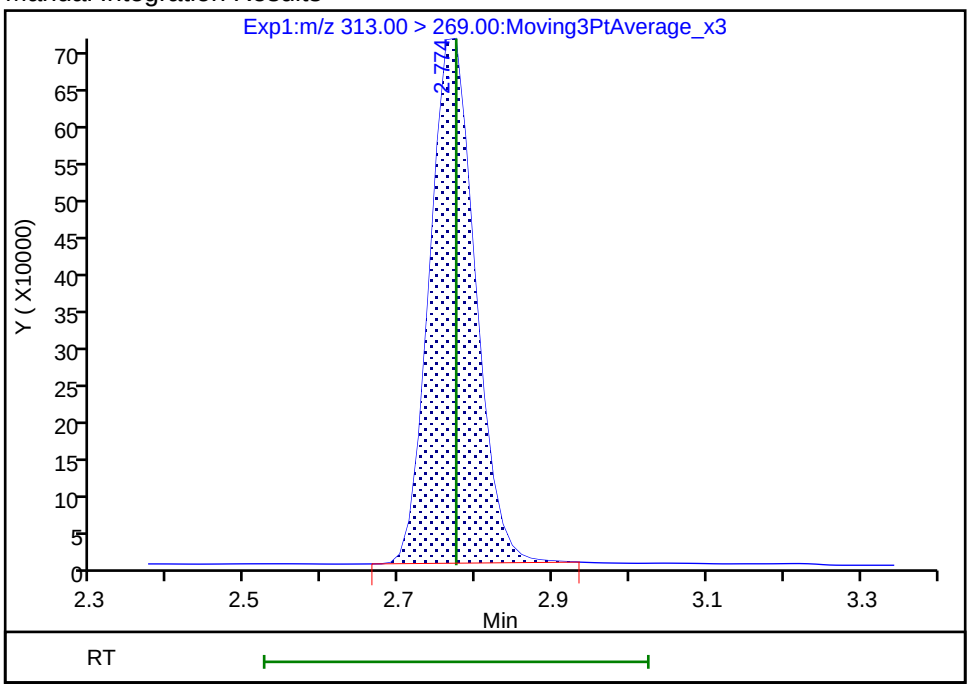
Processing Integration Results

RT: 2.77
Area: 2962538
Amount: 2.459069
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 2935079
Amount: 2.433806
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:01:06
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

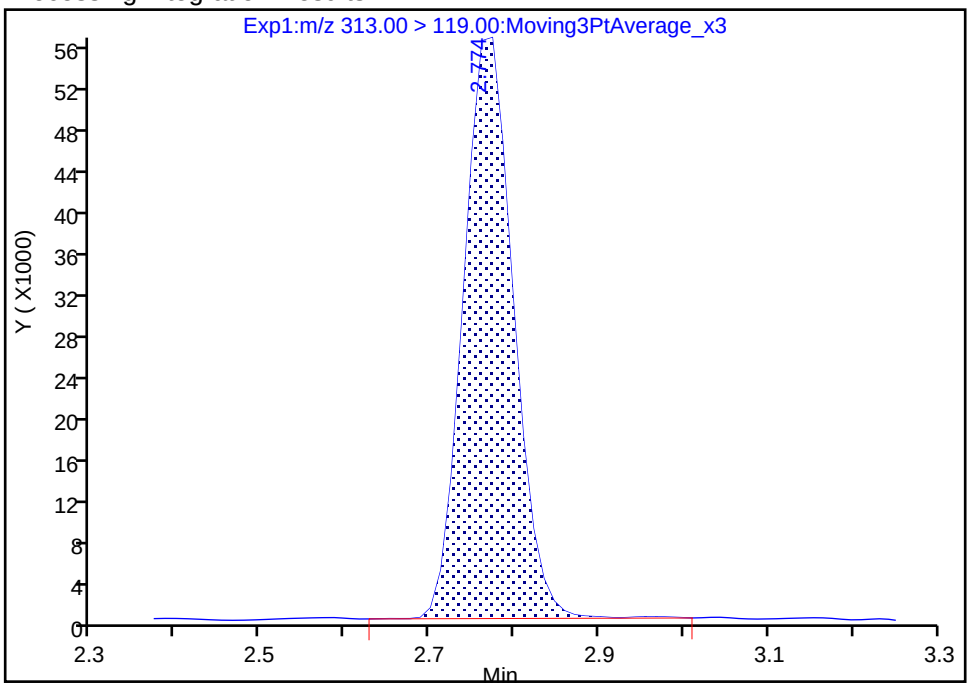
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

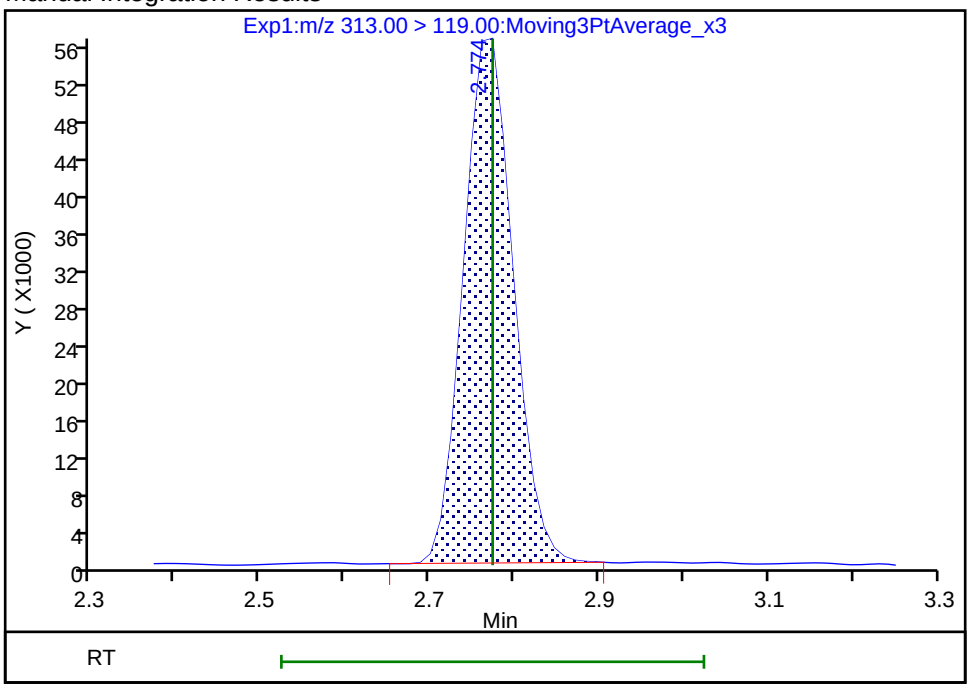
Processing Integration Results

RT: 2.77
Area: 231438
Amount: 2.459069
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 229907
Amount: 2.433806
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:01:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

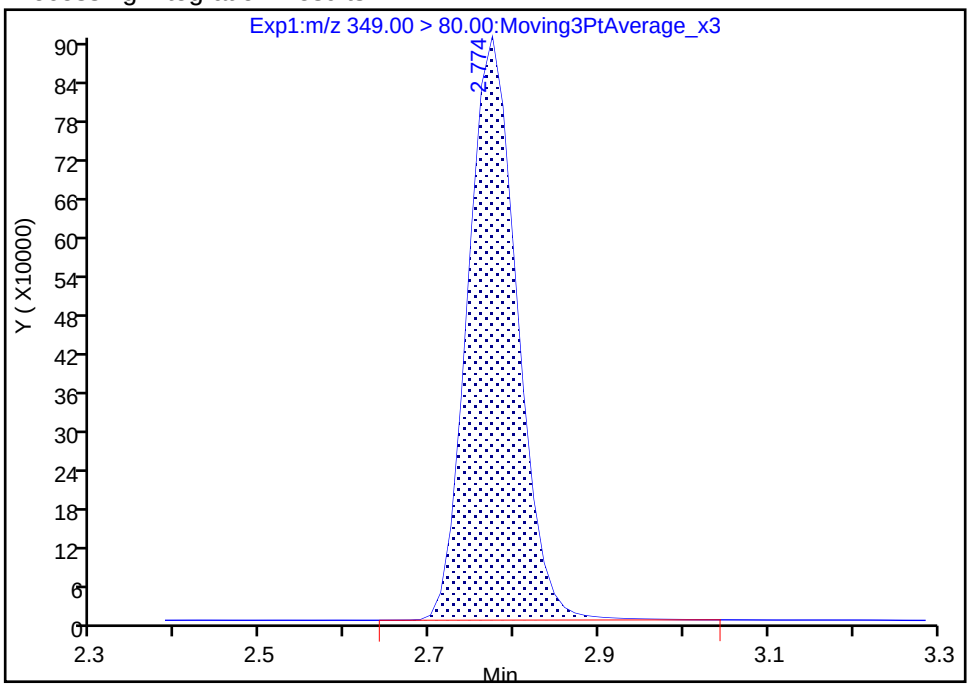
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

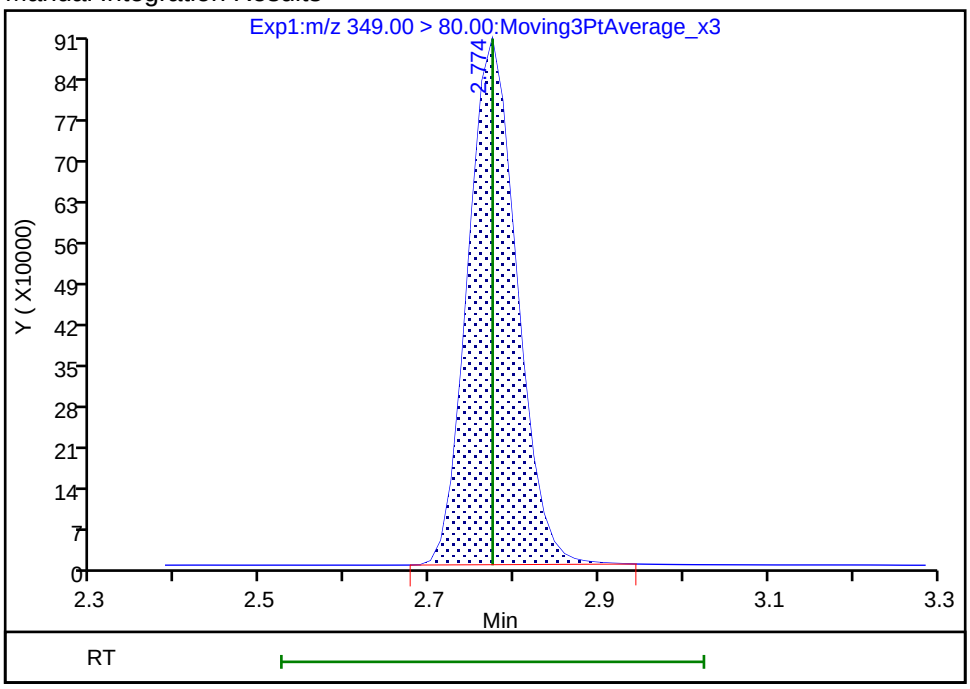
Processing Integration Results

RT: 2.77
Area: 3631726
Amount: 2.318125
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 3616305
Amount: 2.319067
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:01:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

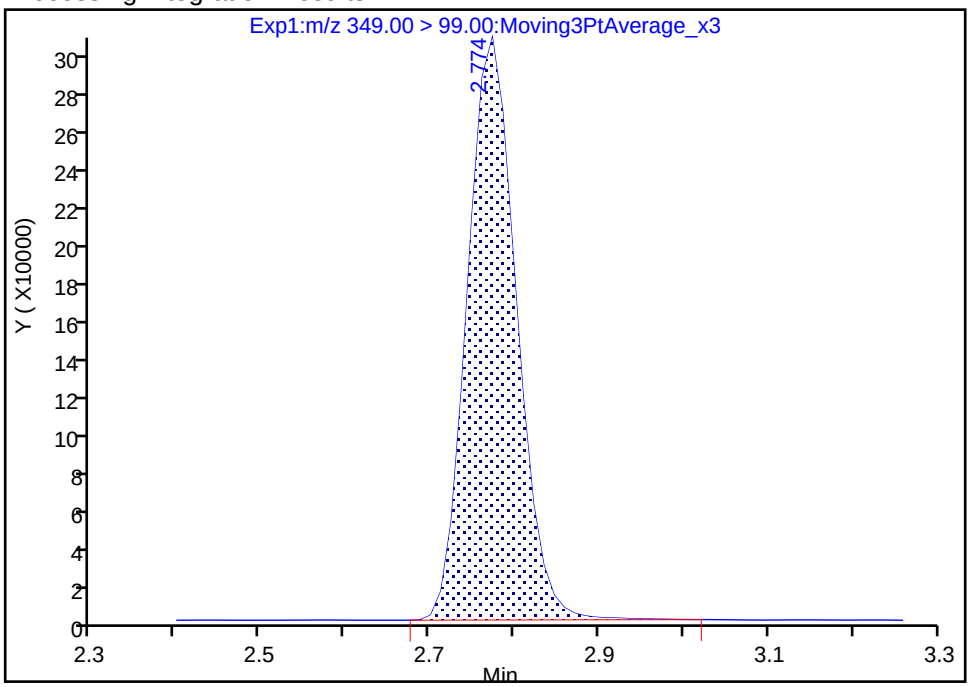
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d				
Injection Date:	05-May-2022 15:46:19	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 2

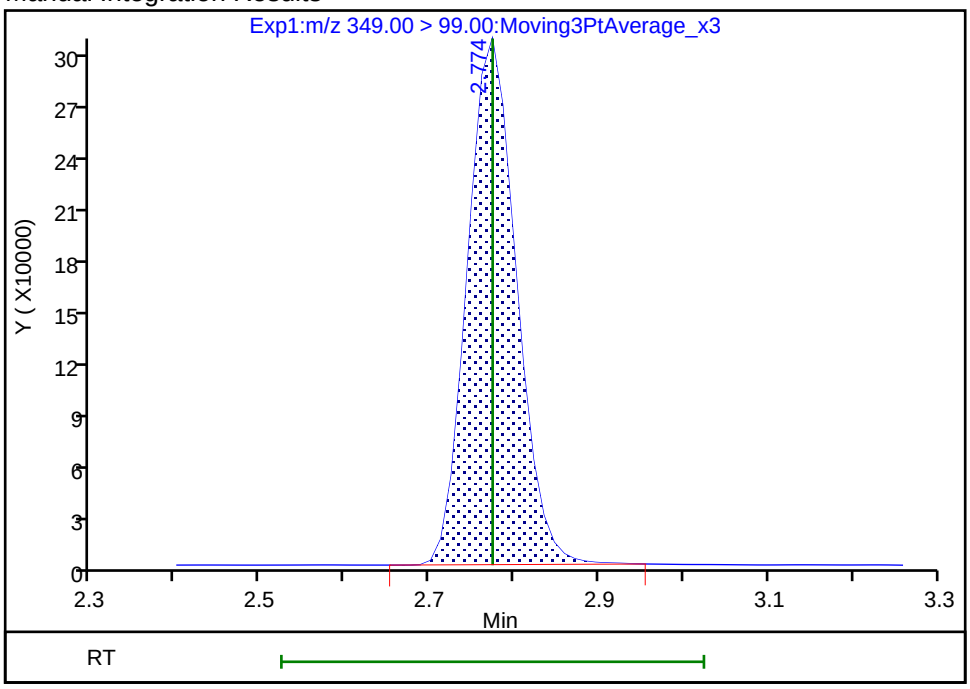
Processing Integration Results

RT: 2.77
Area: 1214126
Amount: 2.318125
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 1209938
Amount: 2.319067
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:01:23

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

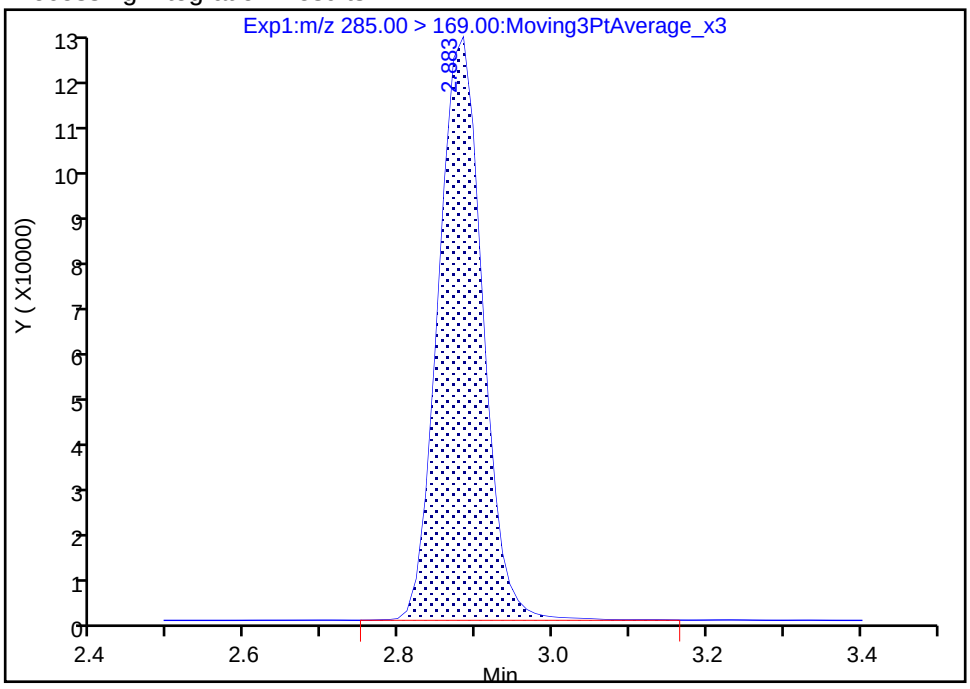
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

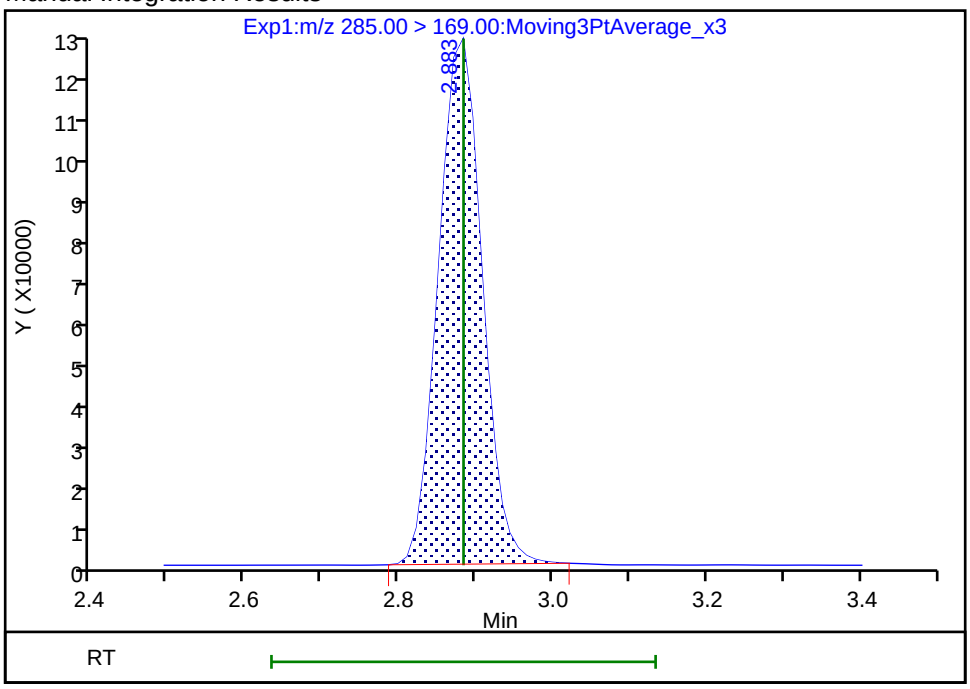
Processing Integration Results

RT: 2.88
Area: 513937
Amount: 2.444358
Amount Units: ng/ml



Manual Integration Results

RT: 2.88
Area: 508499
Amount: 2.445252
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:01:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

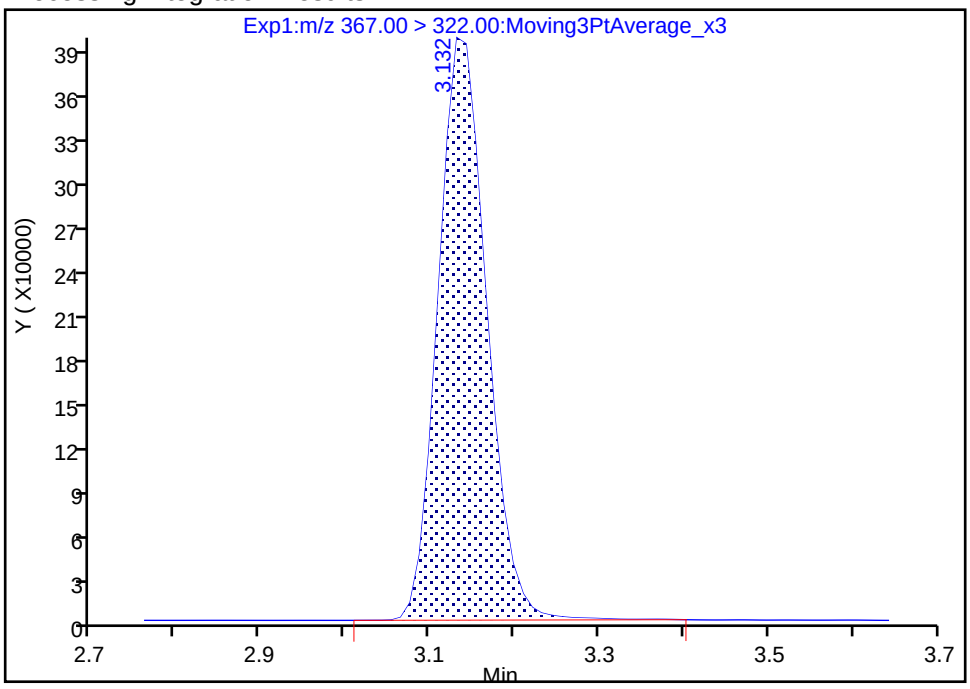
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

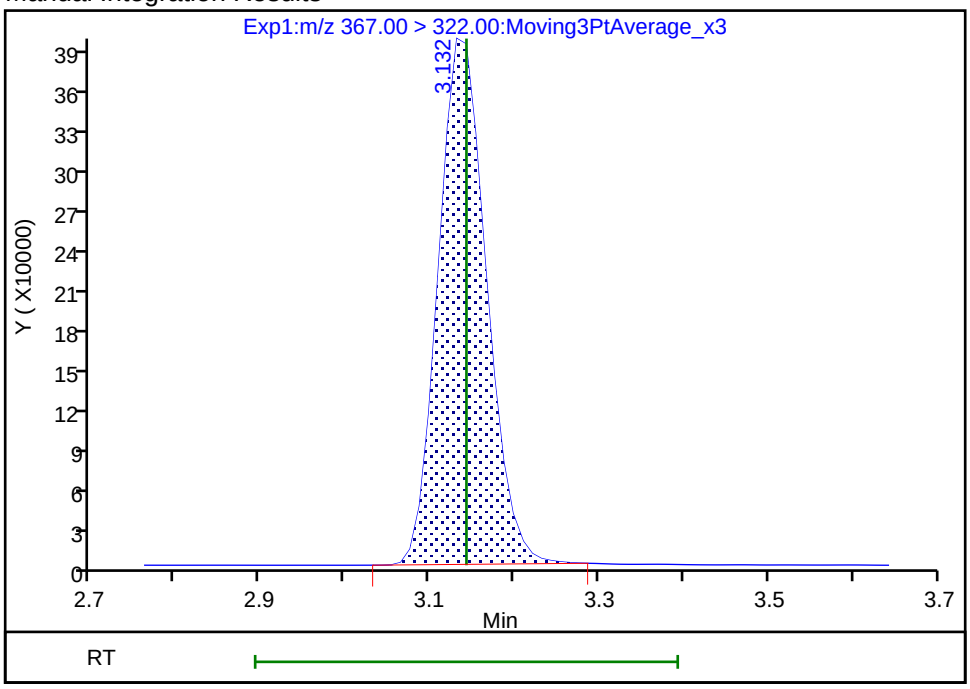
Processing Integration Results

RT: 3.13
Area: 1573726
Amount: 1.273429
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 1561665
Amount: 1.259148
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:01:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

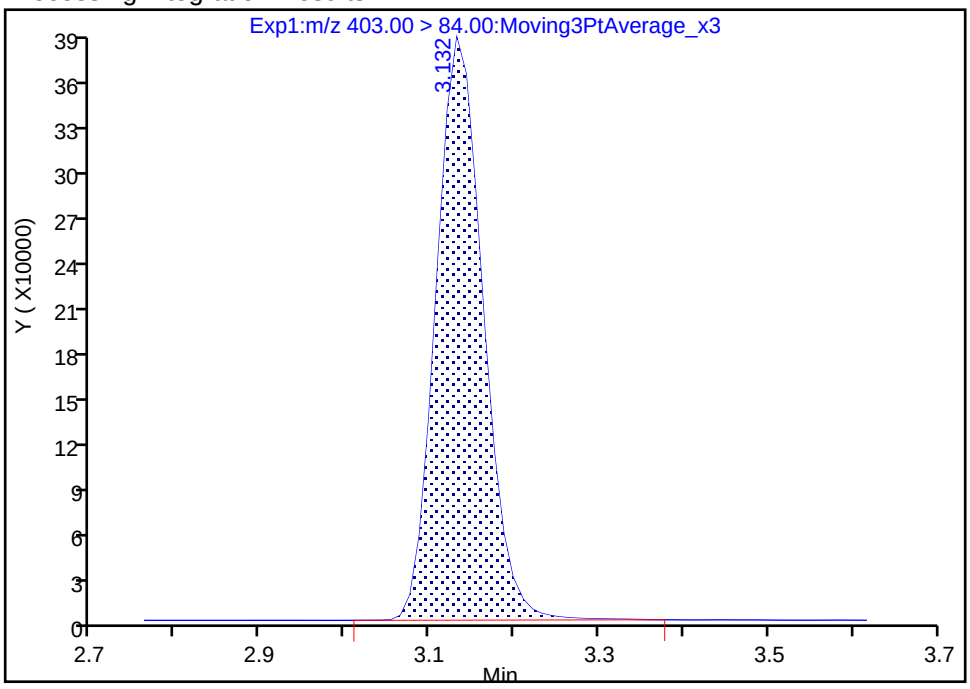
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

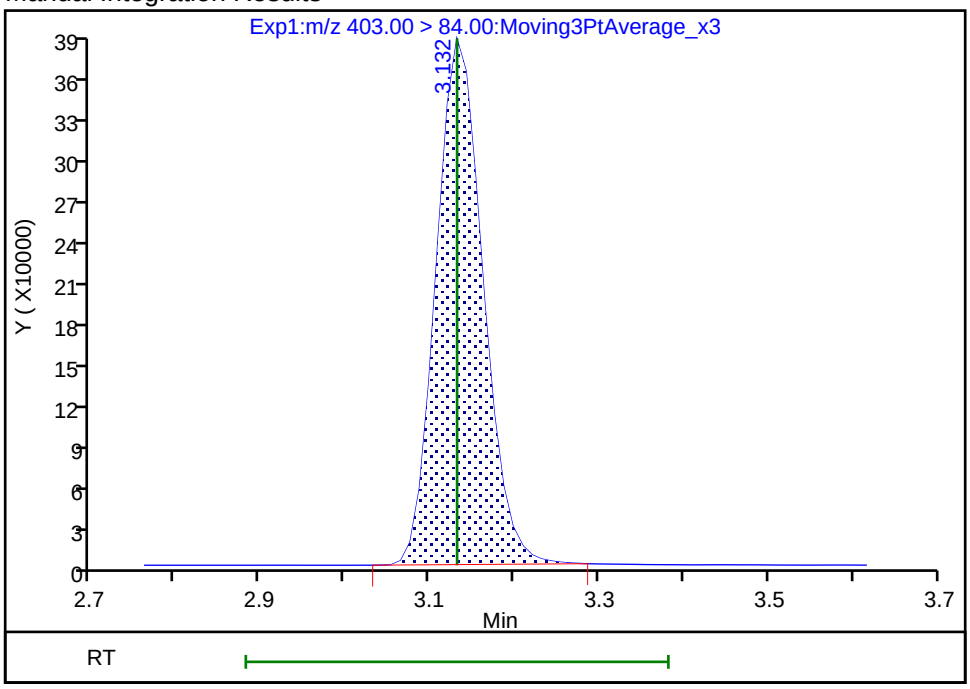
Processing Integration Results

RT: 3.13
Area: 1501461
Amount: 1.174646
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 1493087
Amount: 1.171130
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:01:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

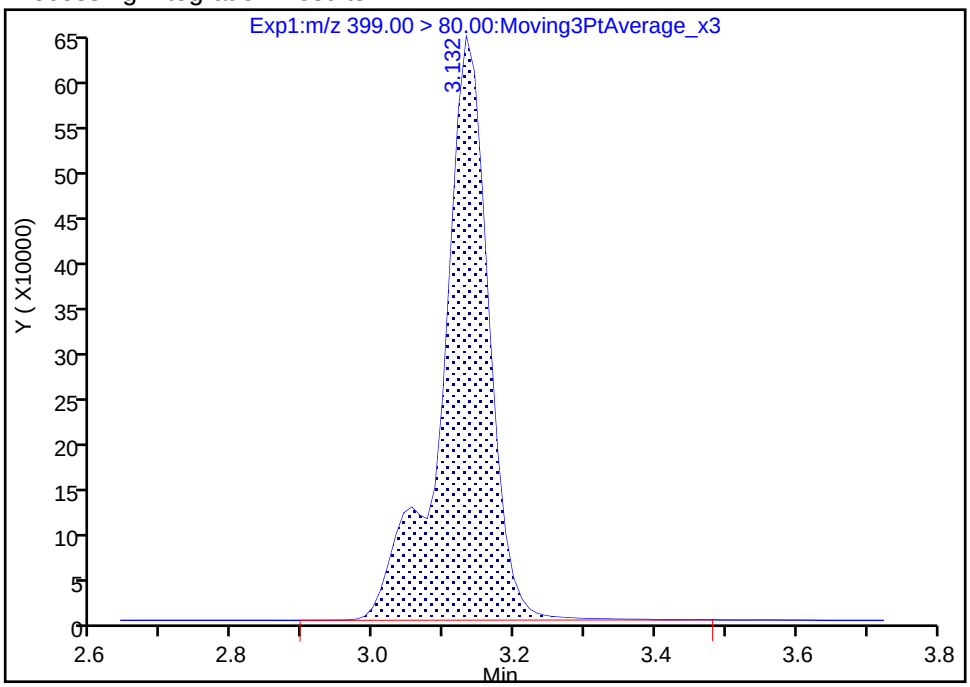
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

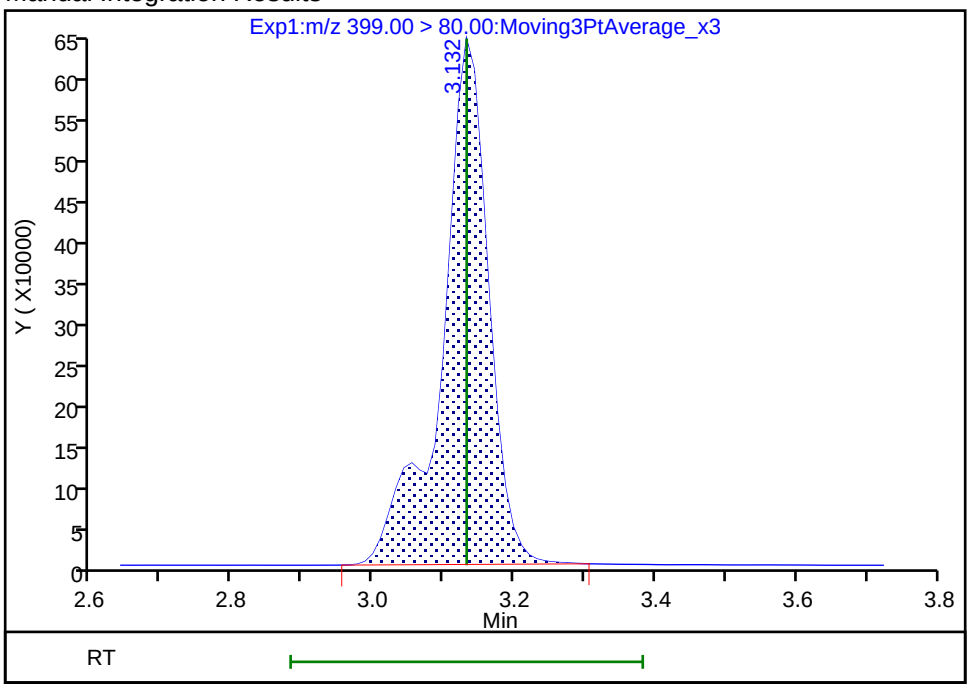
Processing Integration Results

RT: 3.13
Area: 2996422
Amount: 2.151260
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 2975936
Amount: 2.132390
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:01:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

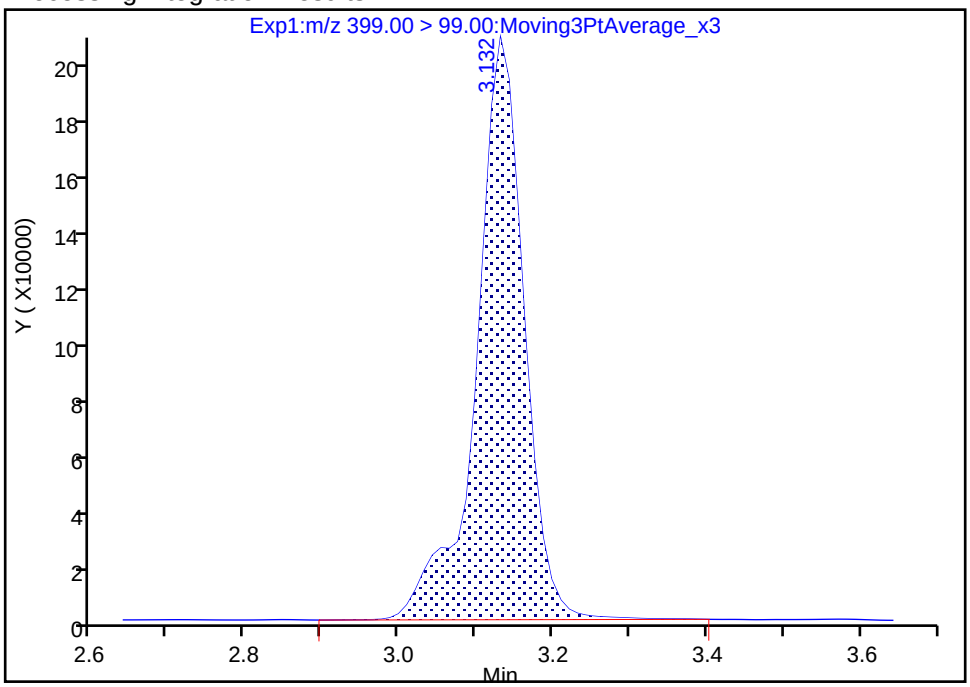
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

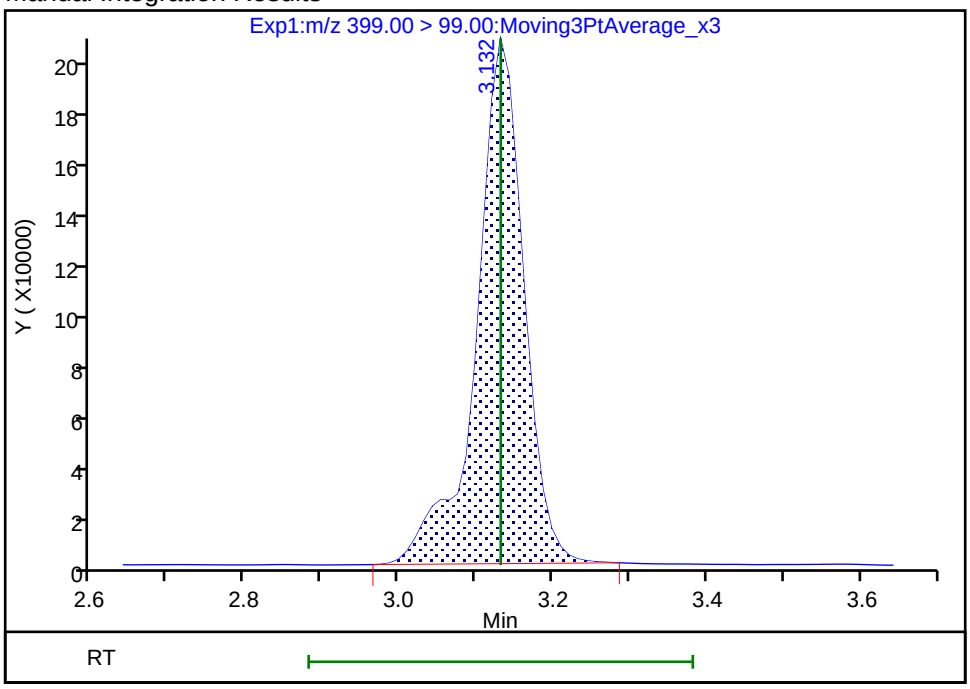
Processing Integration Results

RT: 3.13
Area: 883117
Amount: 2.151260
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 873820
Amount: 2.132390
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:01:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

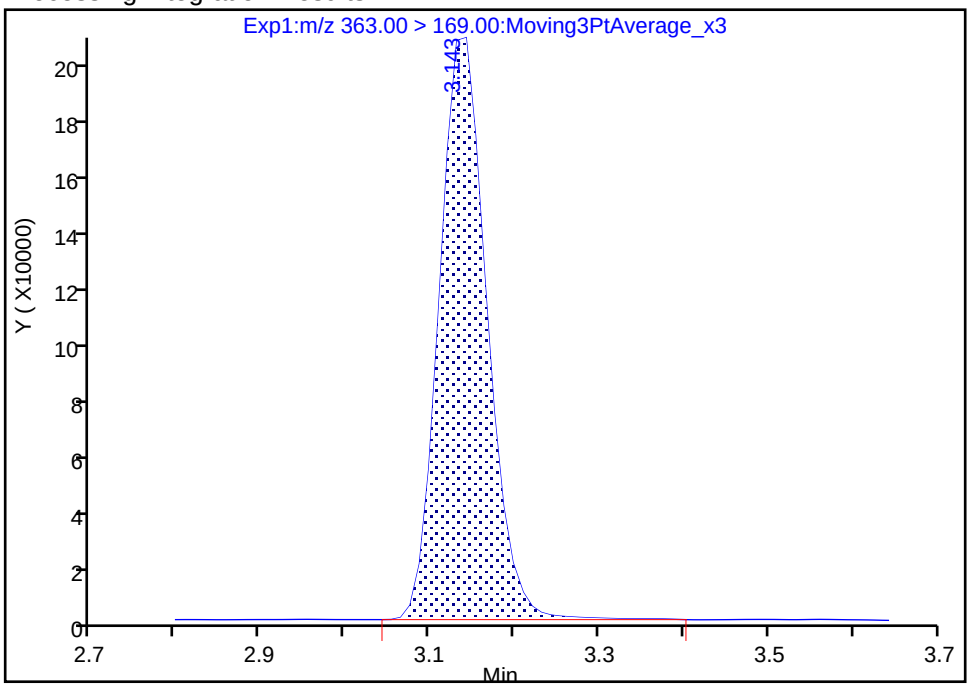
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

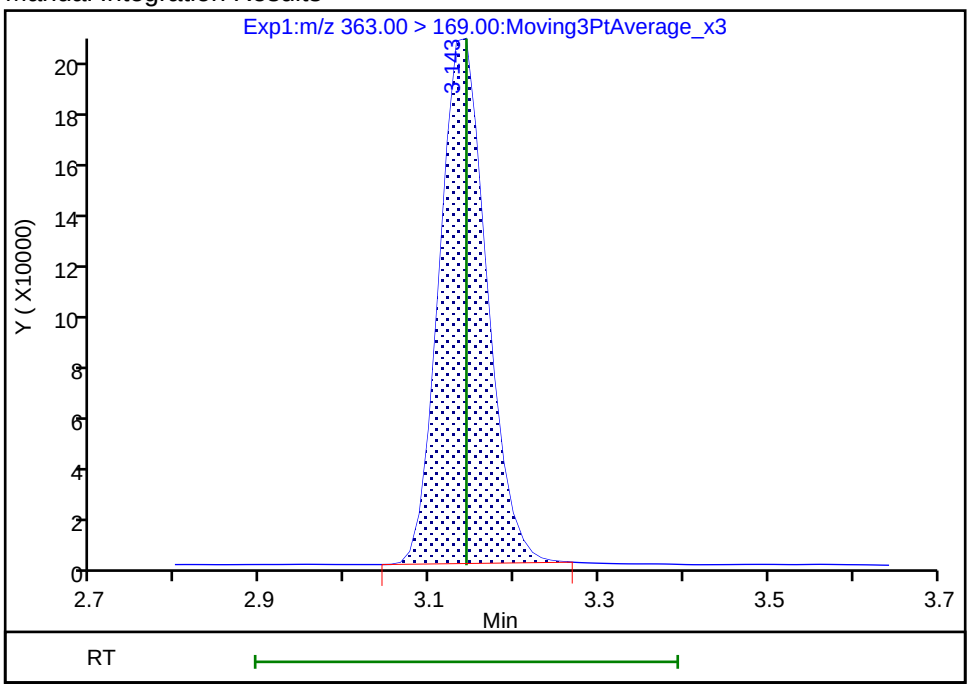
Processing Integration Results

RT: 3.14
Area: 798168
Amount: 2.338000
Amount Units: ng/ml



Manual Integration Results

RT: 3.14
Area: 788919
Amount: 2.366891
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:01:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

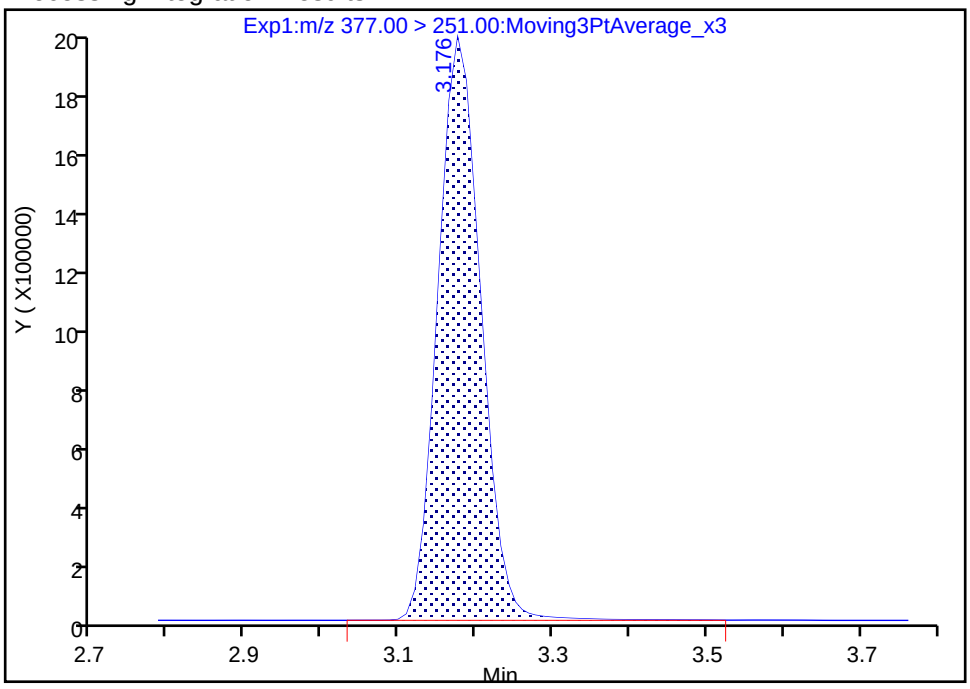
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

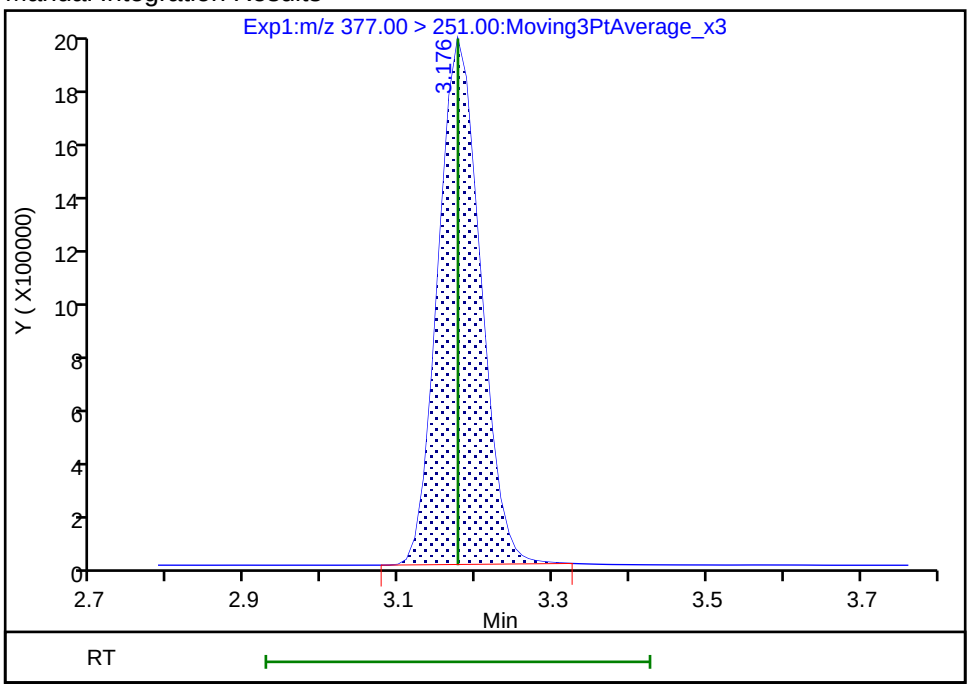
Processing Integration Results

RT: 3.18
Area: 7443537
Amount: 2.330356
Amount Units: ng/ml



Manual Integration Results

RT: 3.18
Area: 7368416
Amount: 2.357582
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:01:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

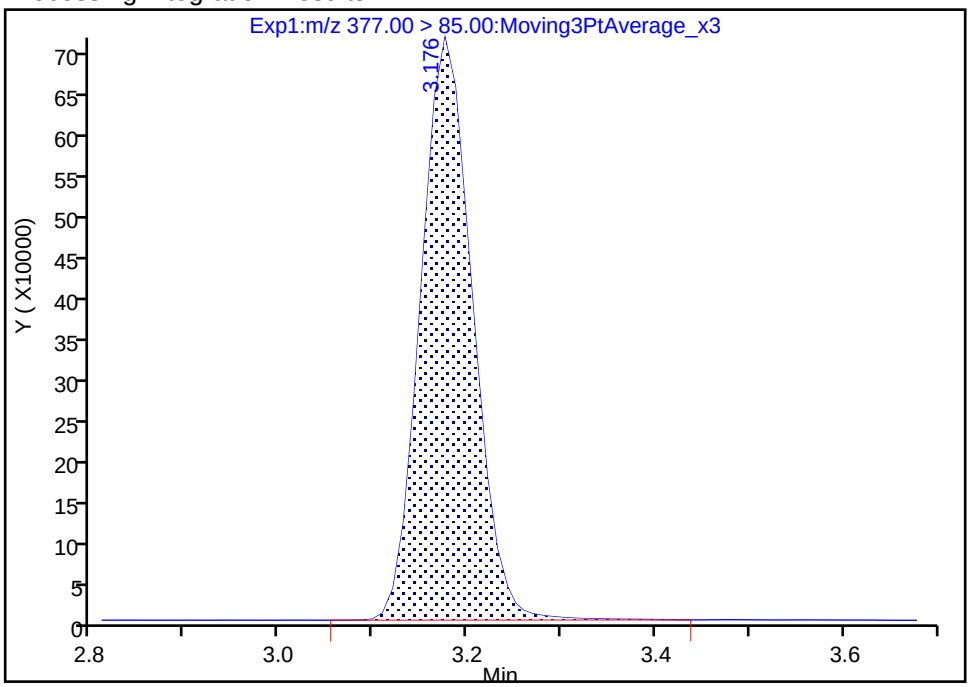
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

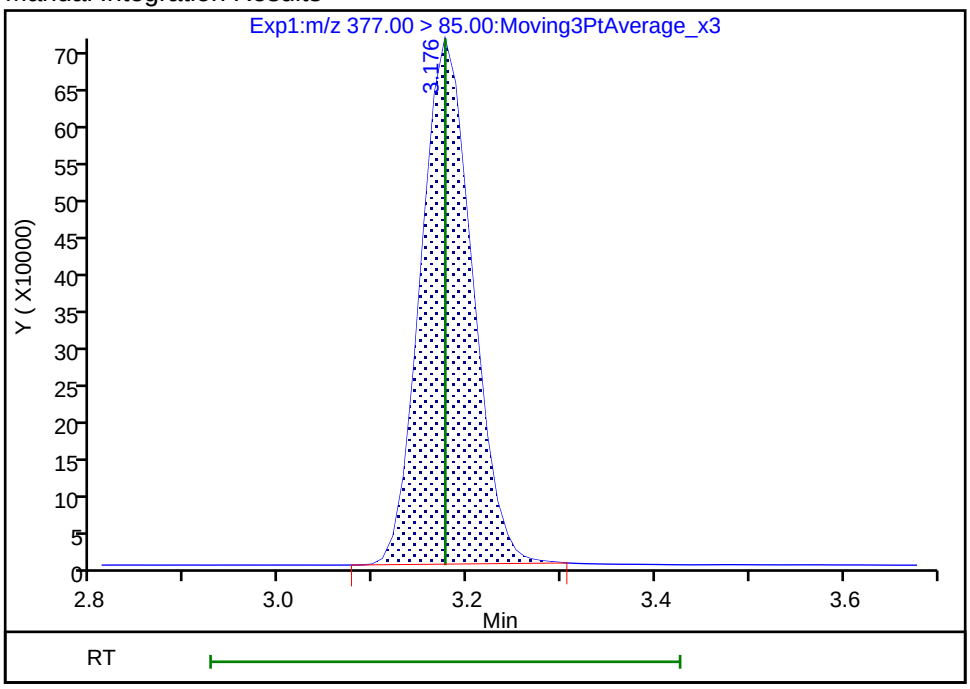
Processing Integration Results

RT: 3.18
Area: 2733796
Amount: 2.330356
Amount Units: ng/ml



Manual Integration Results

RT: 3.18
Area: 2707633
Amount: 2.357582
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:02:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

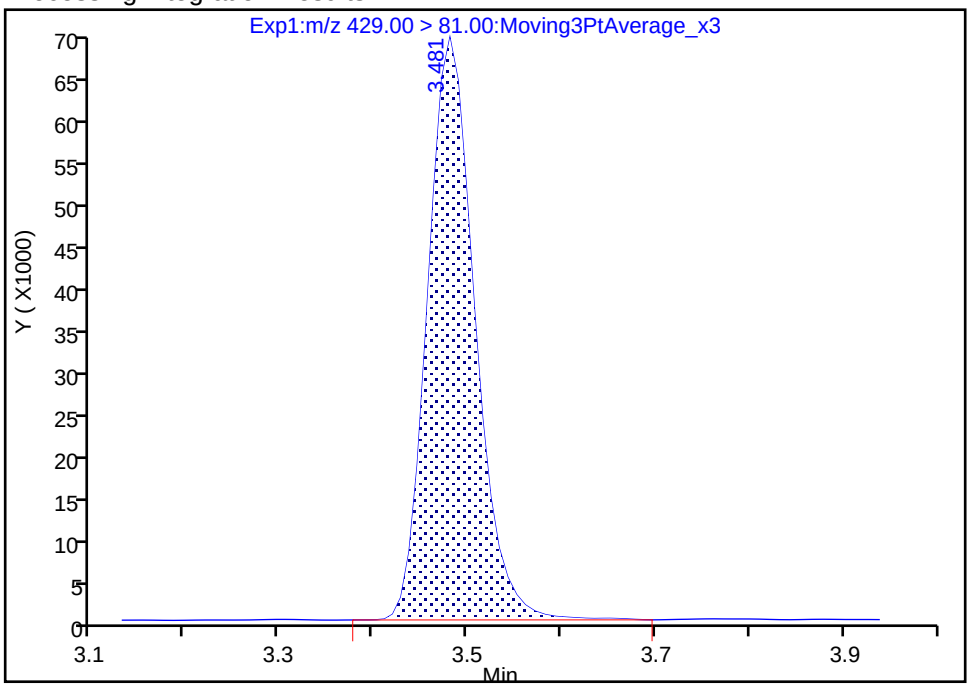
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 12 M2-6:2 FTS, CAS: STL02279

Signal: 1

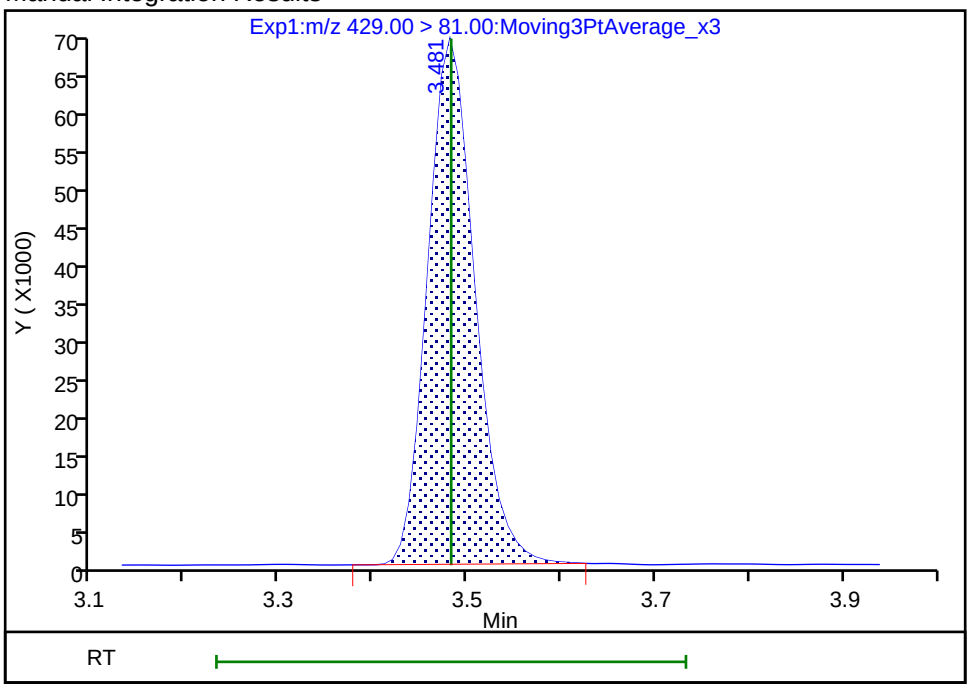
Processing Integration Results

RT: 3.48
Area: 241967
Amount: 1.156634
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 240108
Amount: 1.154507
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:02:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

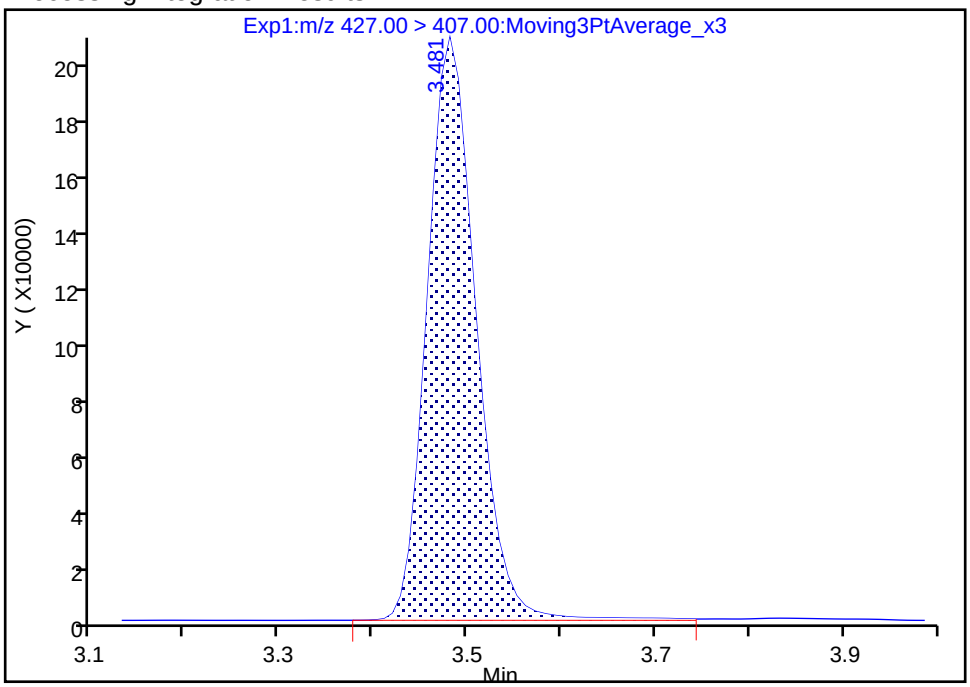
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

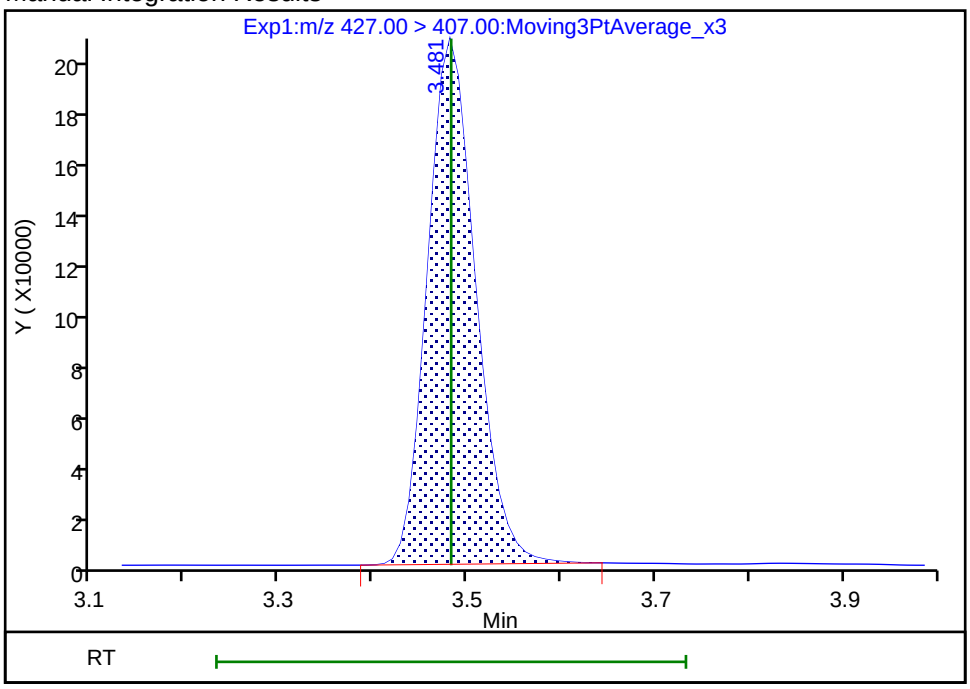
Processing Integration Results

RT: 3.48
Area: 745319
Amount: 2.346123
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 733854
Amount: 2.340019
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:02:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

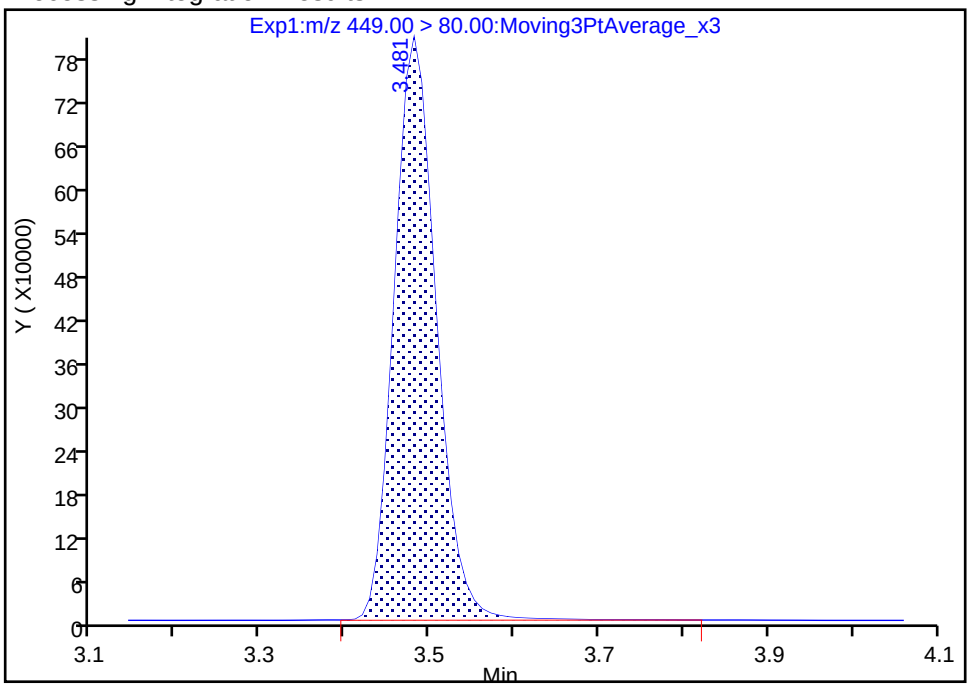
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

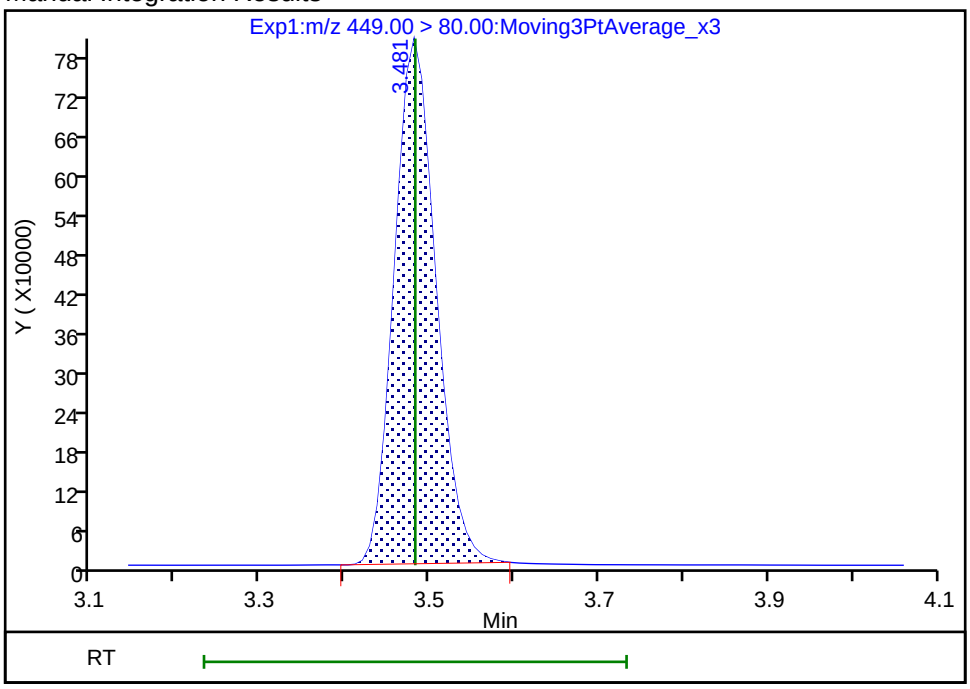
Processing Integration Results

RT: 3.48
Area: 2765755
Amount: 2.320990
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 2726119
Amount: 2.318748
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:02:06
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

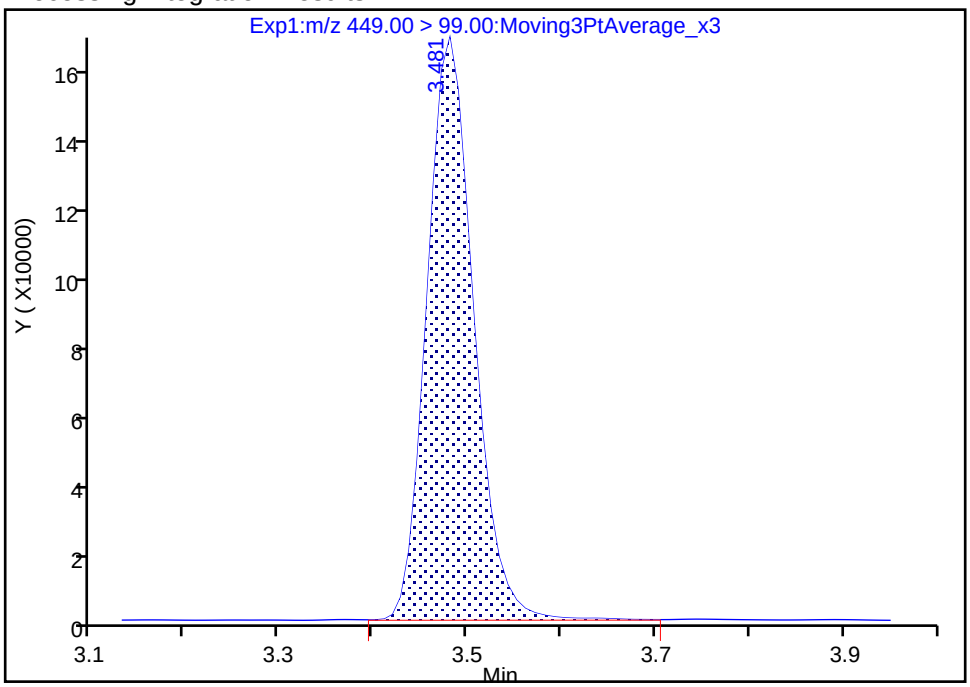
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

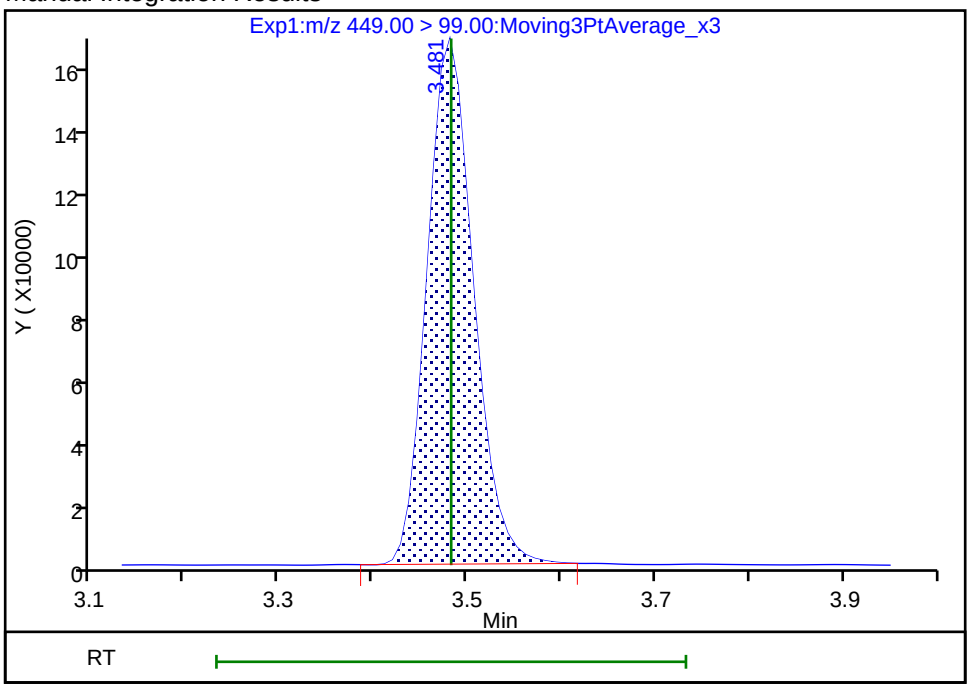
Processing Integration Results

RT: 3.48
Area: 579044
Amount: 2.320990
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 572572
Amount: 2.318748
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:02:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

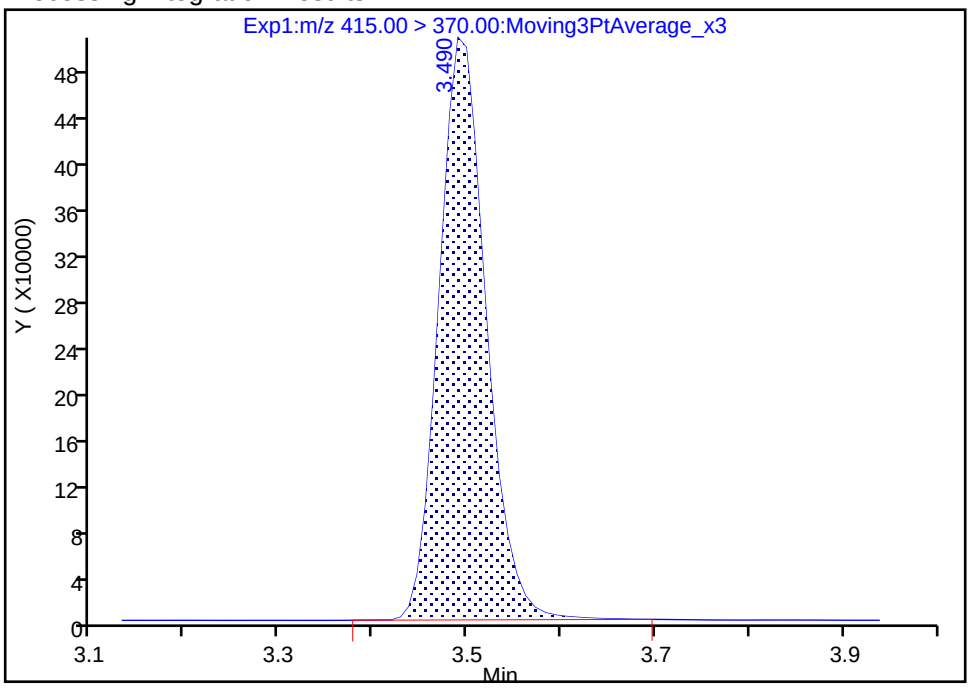
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

* 62 13C2 PFOA, CAS: STL00623

Signal: 1

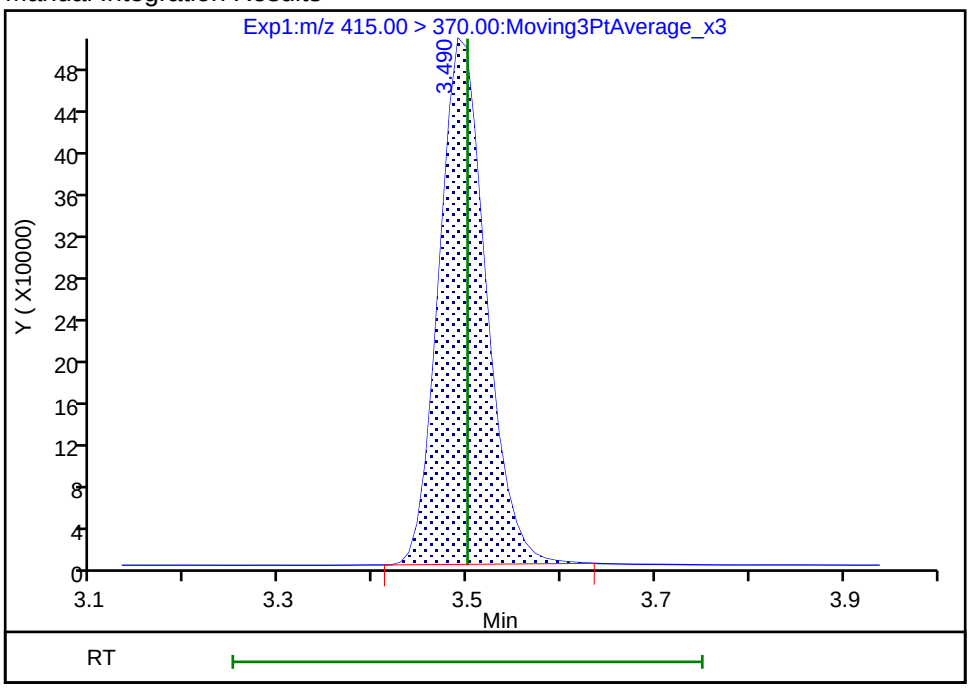
Processing Integration Results

RT: 3.49
Area: 1740921
Amount: 1.250000
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 1731635
Amount: 1.250000
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:02:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

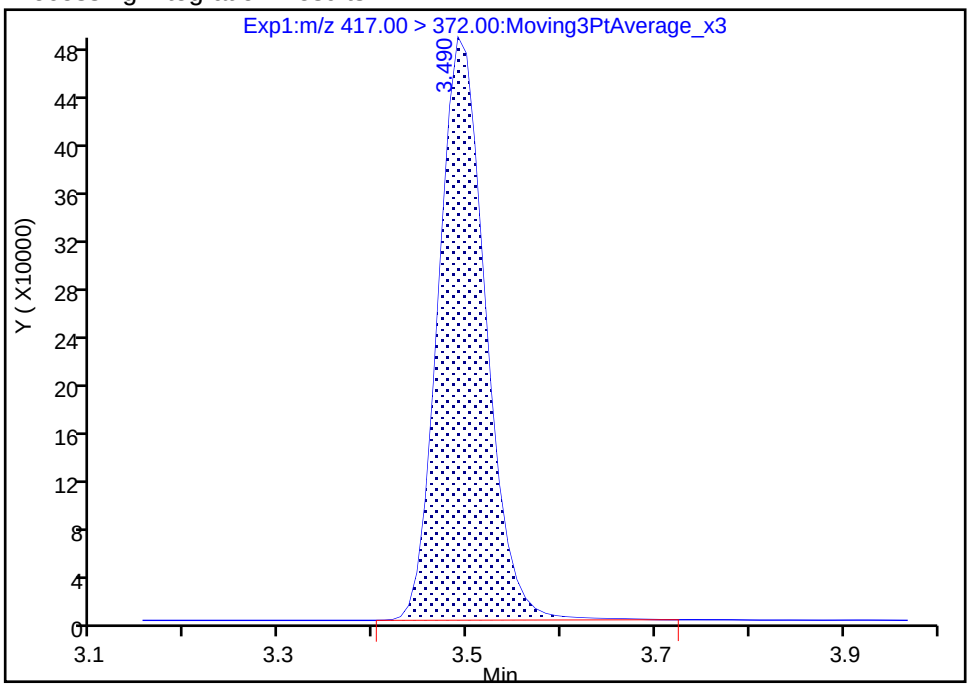
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

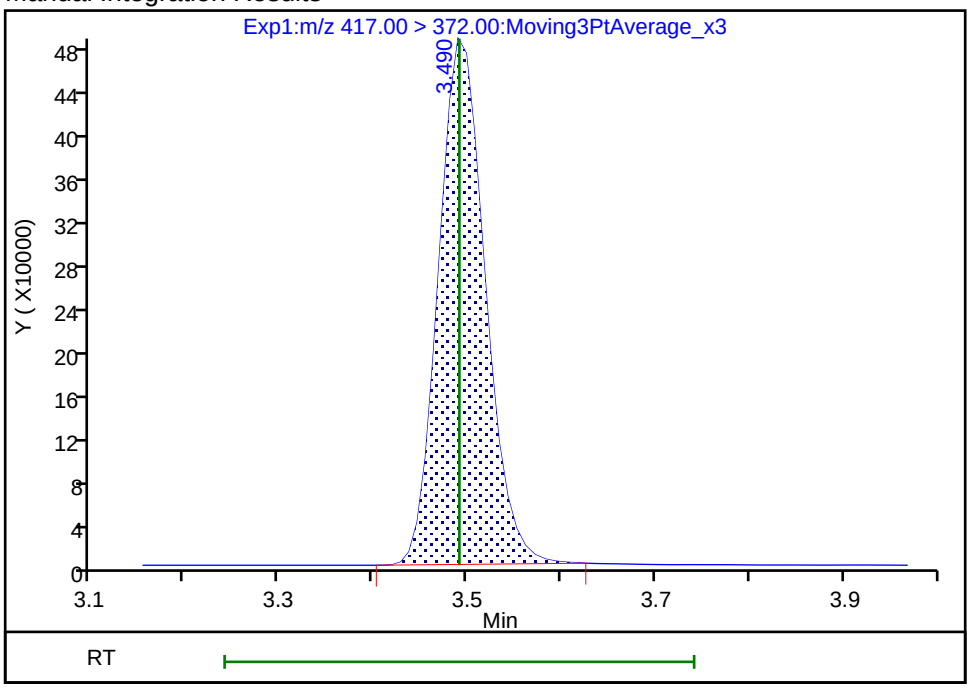
Processing Integration Results

RT: 3.49
Area: 1676189
Amount: 1.280442
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 1662606
Amount: 1.274827
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:02:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

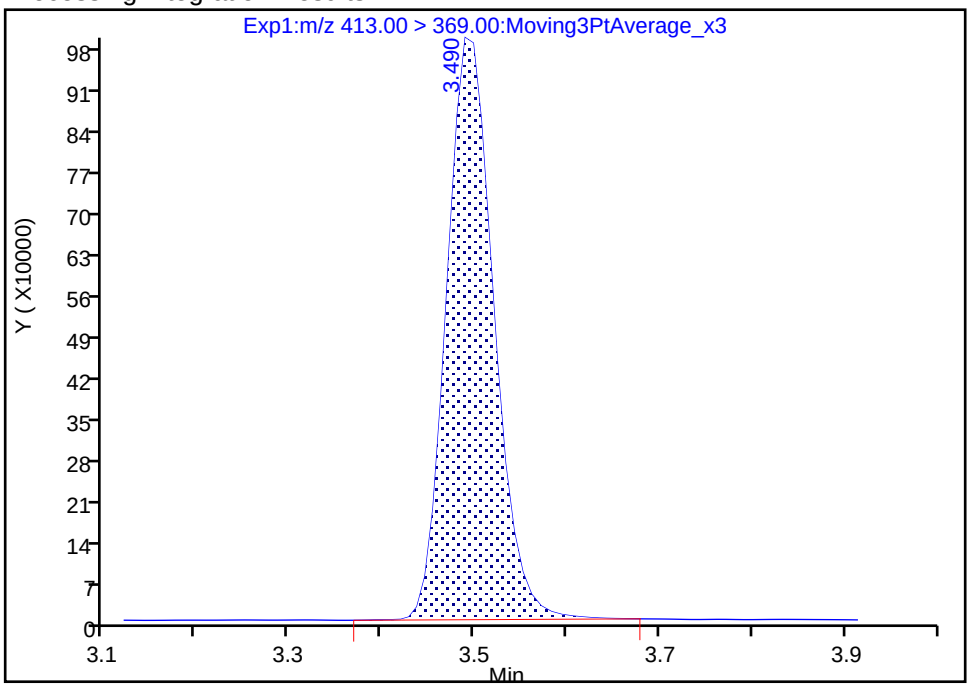
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

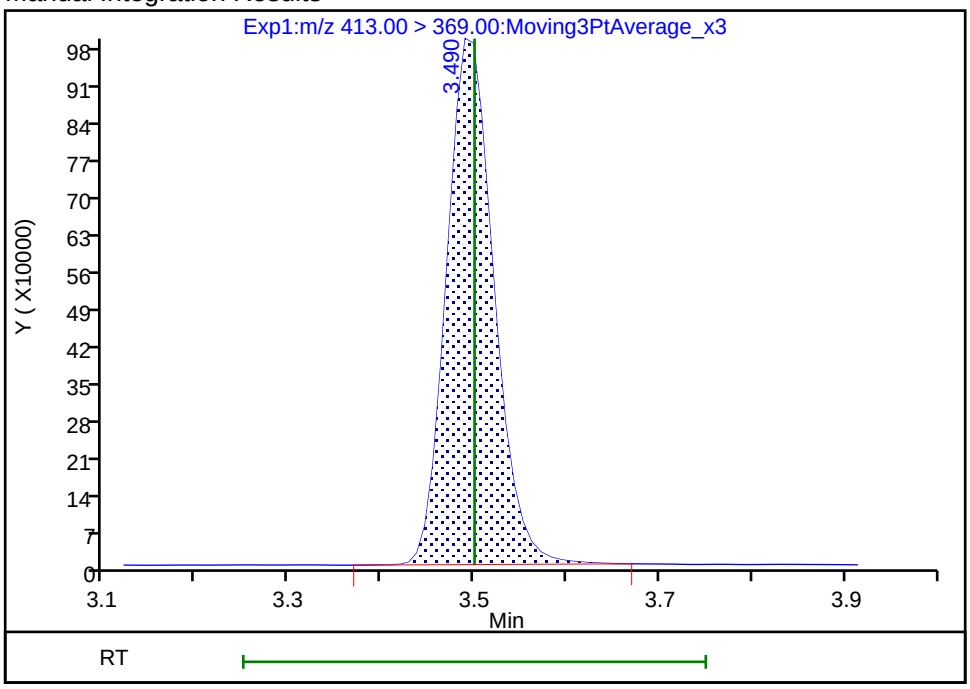
Processing Integration Results

RT: 3.49
Area: 3507744
Amount: 2.352062
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 3505323
Amount: 2.353154
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:02:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

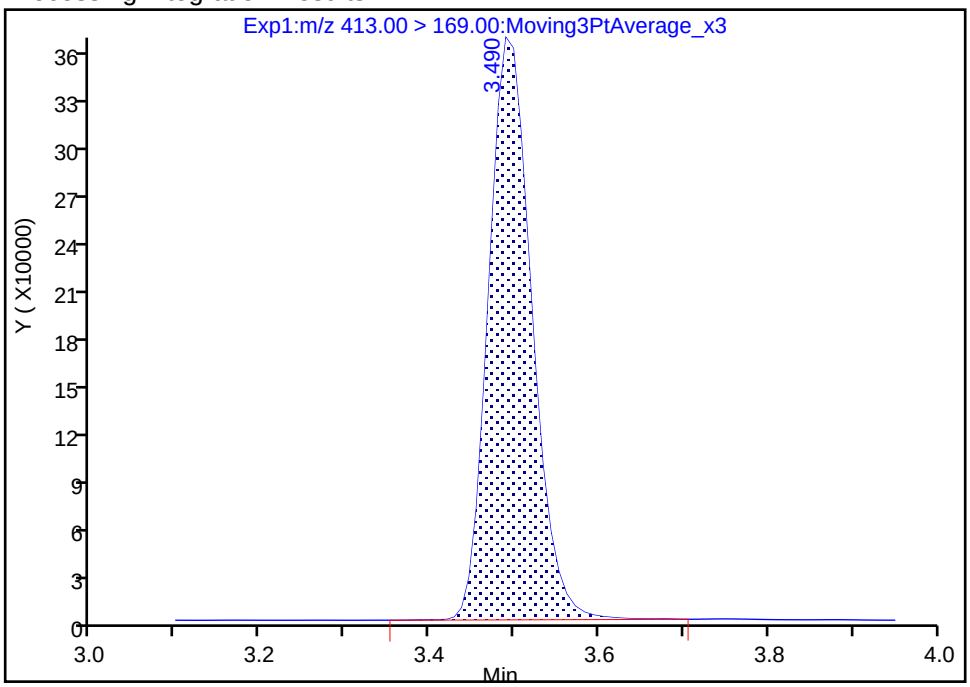
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

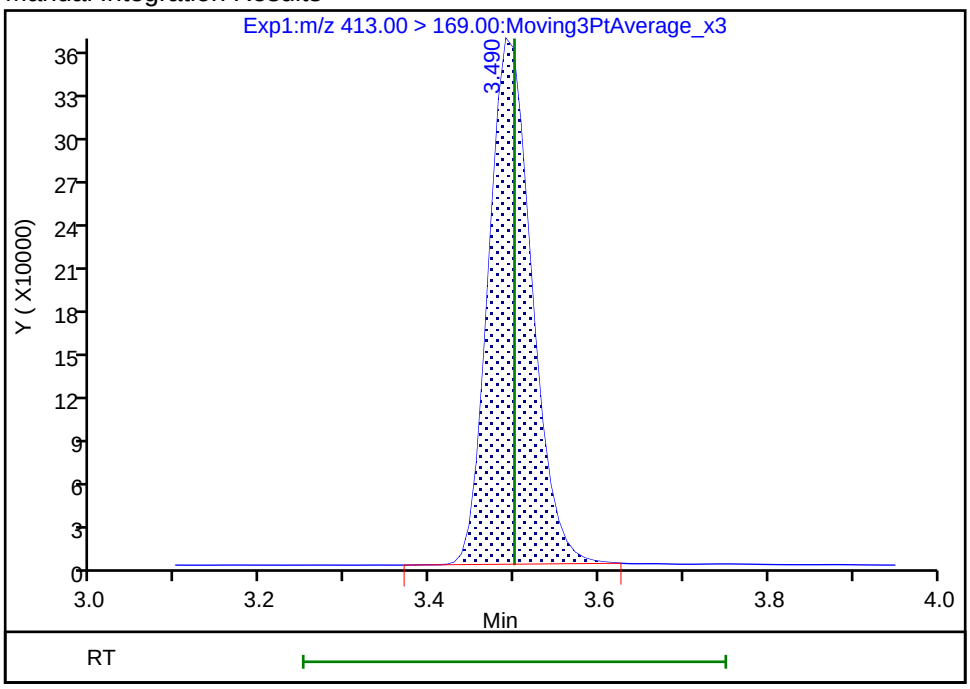
Processing Integration Results

RT: 3.49
Area: 1305068
Amount: 2.352062
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 1296810
Amount: 2.353154
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:02:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

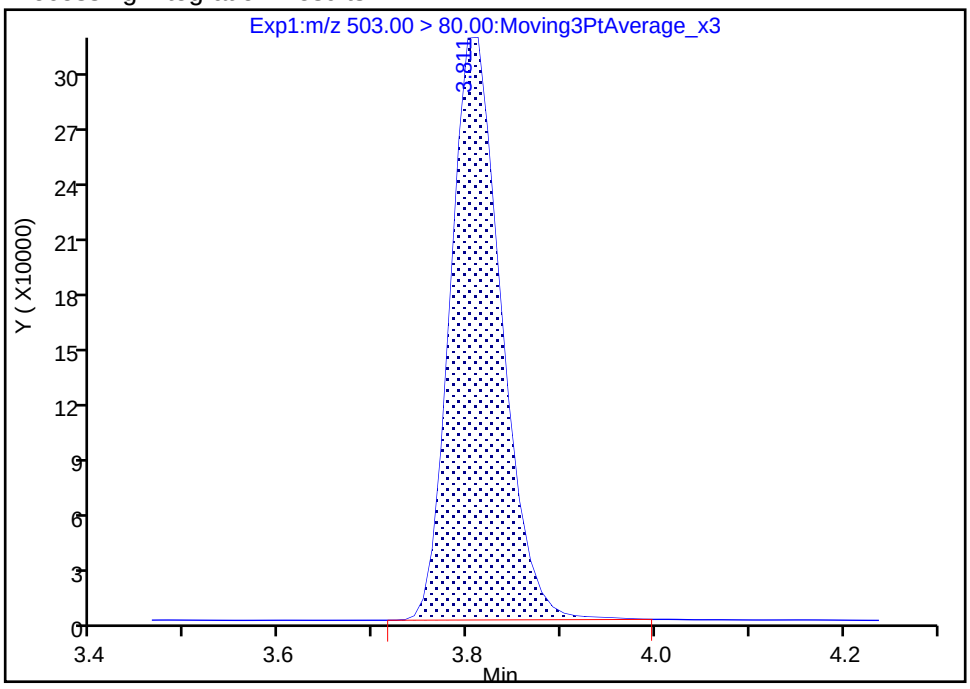
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

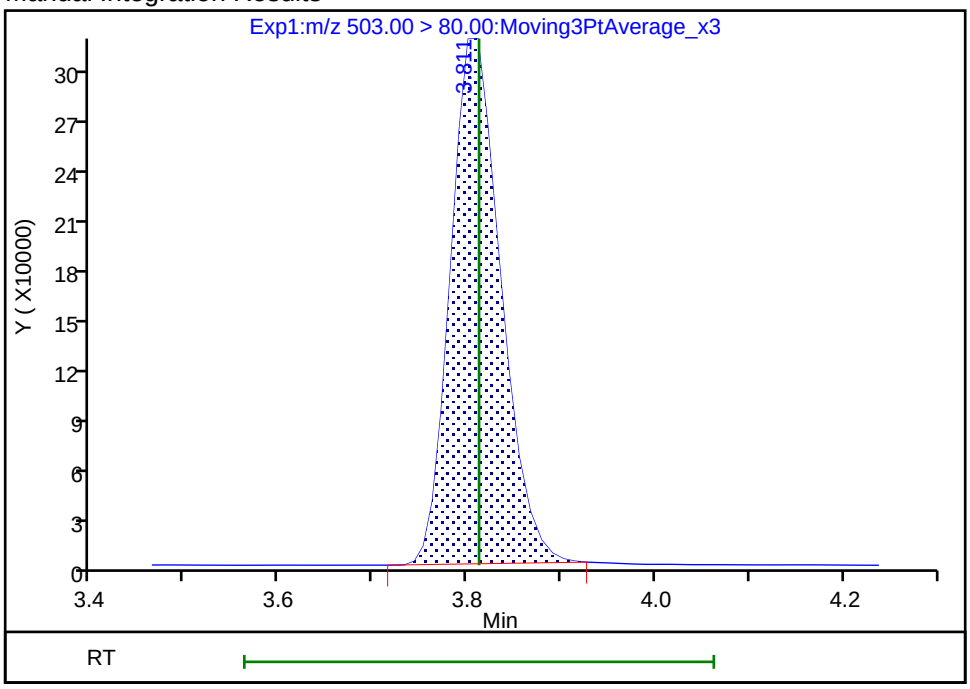
Processing Integration Results

RT: 3.81
Area: 1180845
Amount: 1.192716
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 1168859
Amount: 1.167037
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:03:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

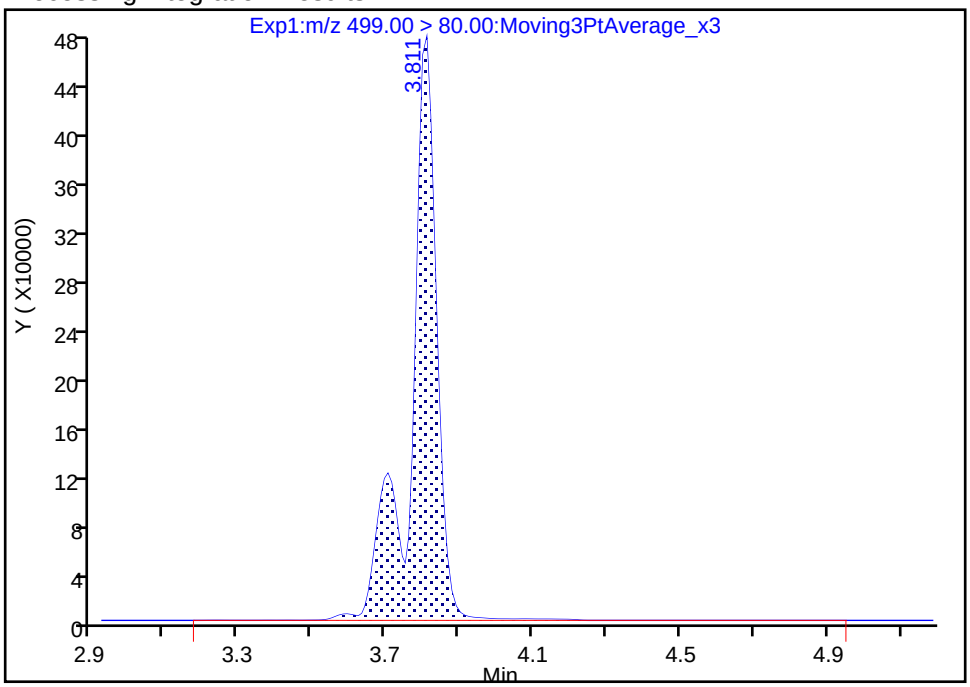
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

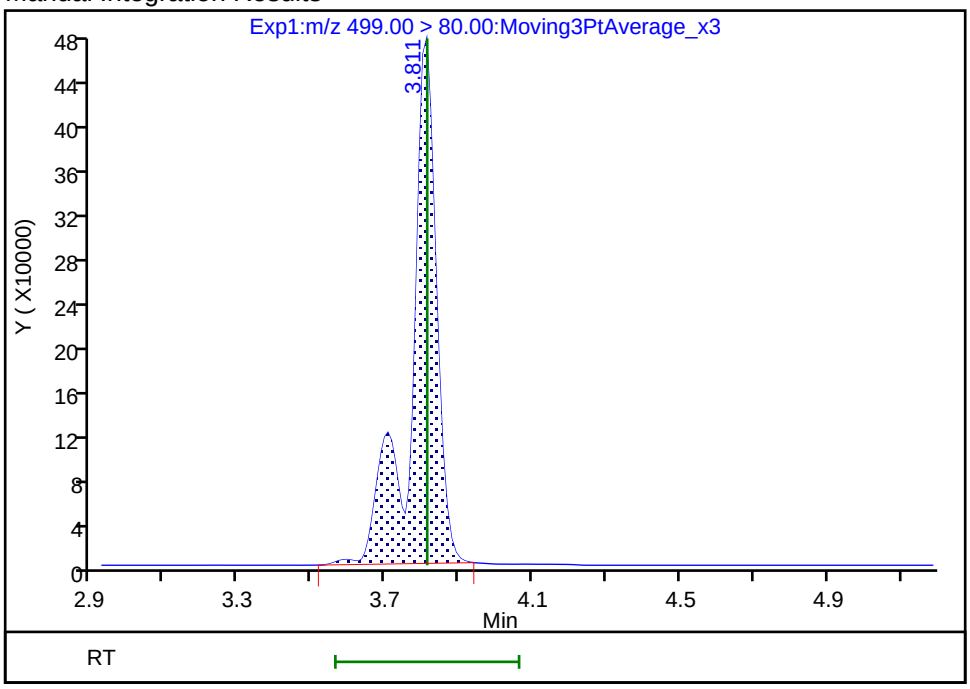
Processing Integration Results

RT: 3.81
Area: 2323743
Amount: 2.274468
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 2274091
Amount: 2.177156
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:02:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

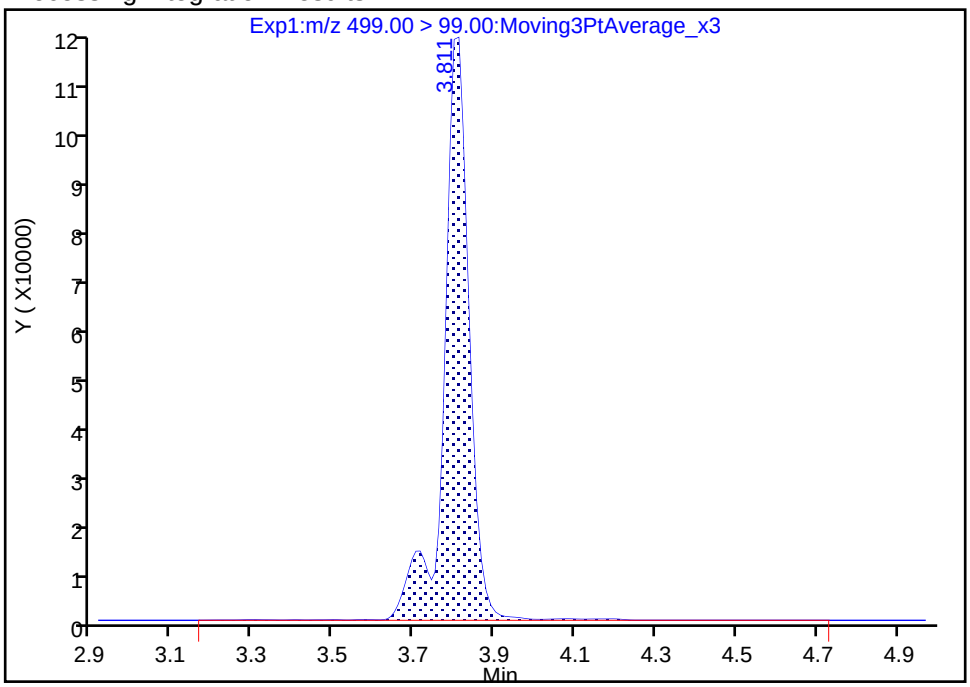
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

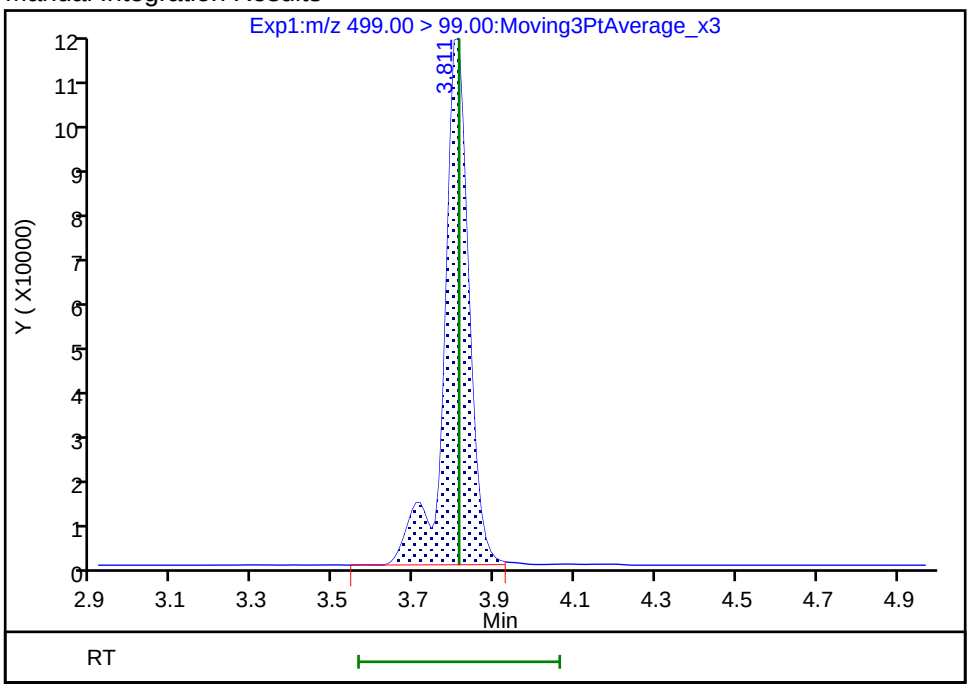
Processing Integration Results

RT: 3.81
Area: 513165
Amount: 2.274468
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 506010
Amount: 2.177156
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:02:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

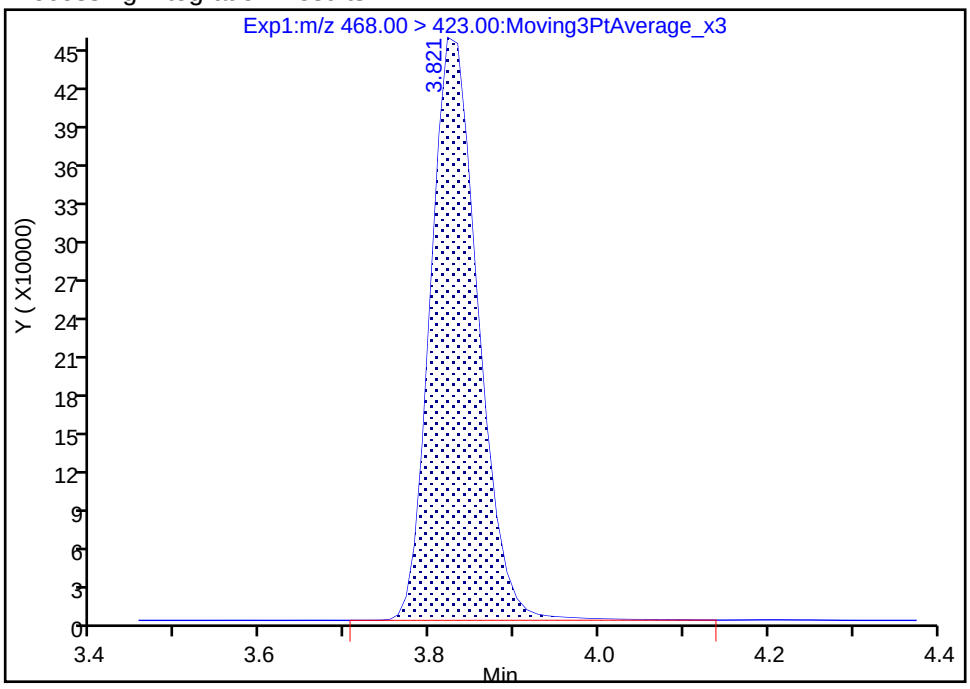
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

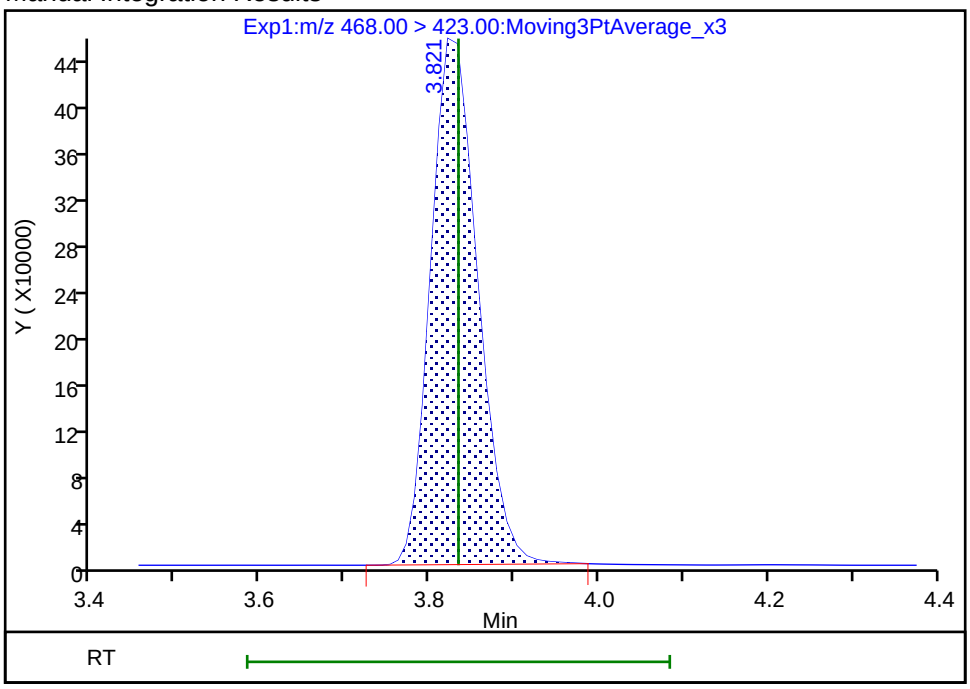
Processing Integration Results

RT: 3.82
Area: 1751838
Amount: 1.250528
Amount Units: ng/ml



Manual Integration Results

RT: 3.82
Area: 1738420
Amount: 1.226705
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:03:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

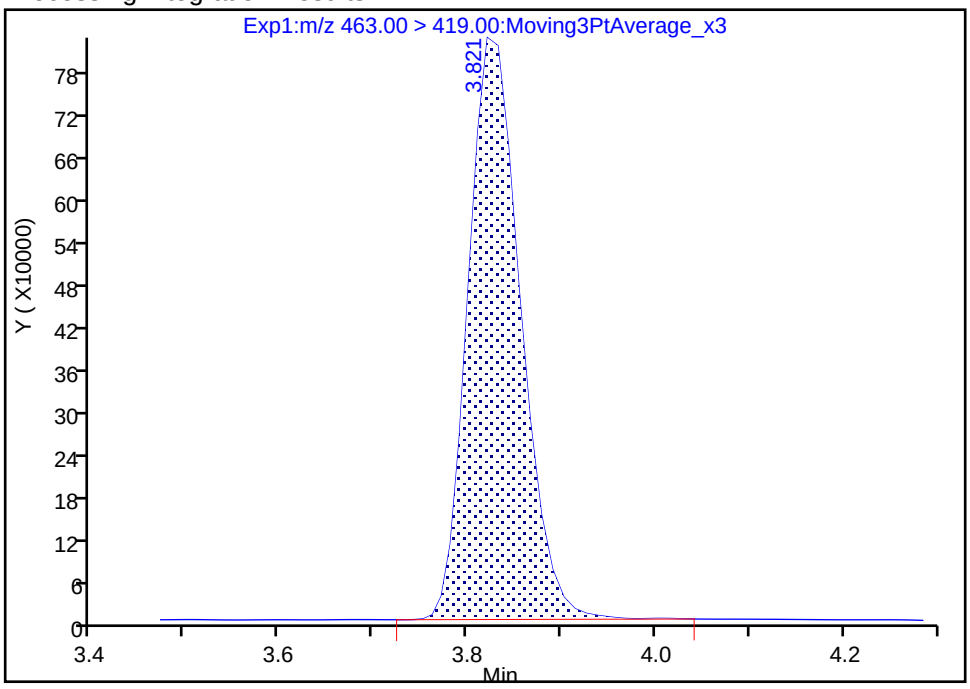
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

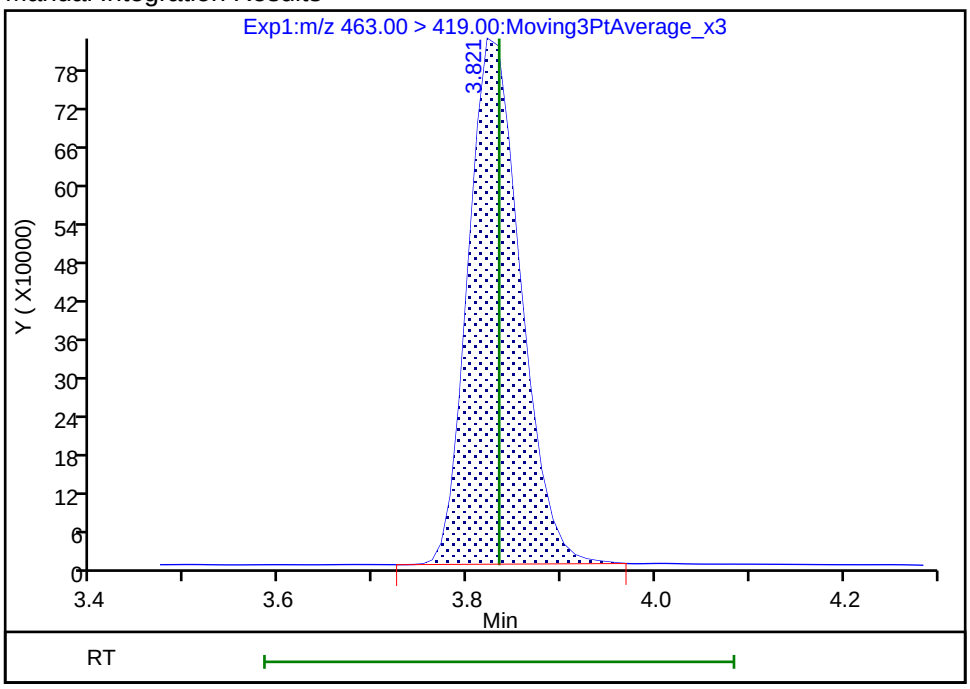
Processing Integration Results

RT: 3.82
Area: 3195466
Amount: 2.368367
Amount Units: ng/ml



Manual Integration Results

RT: 3.82
Area: 3185158
Amount: 2.367974
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:03:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

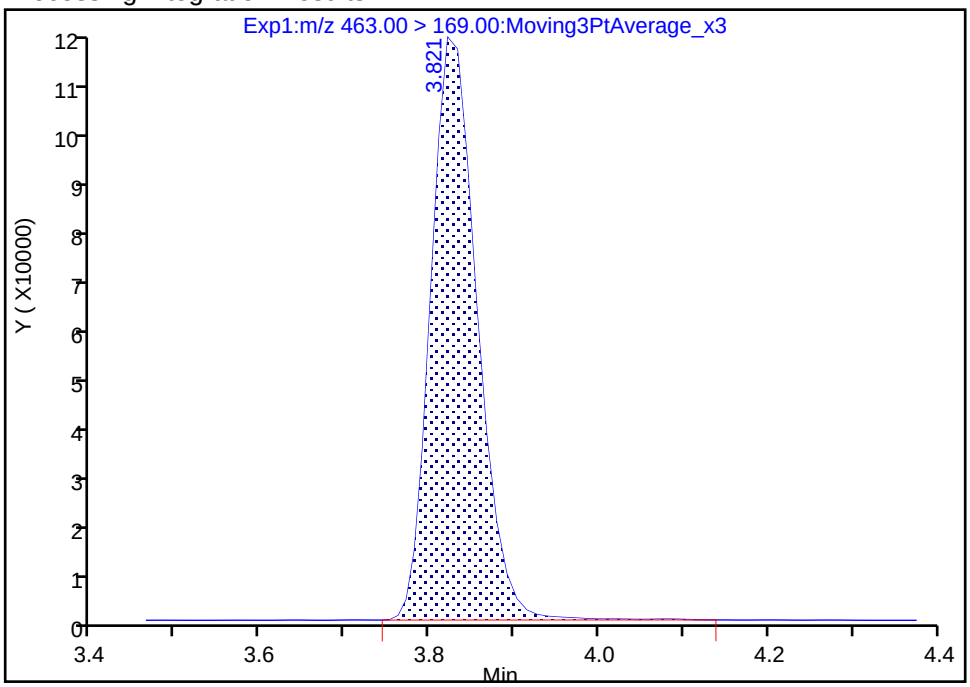
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

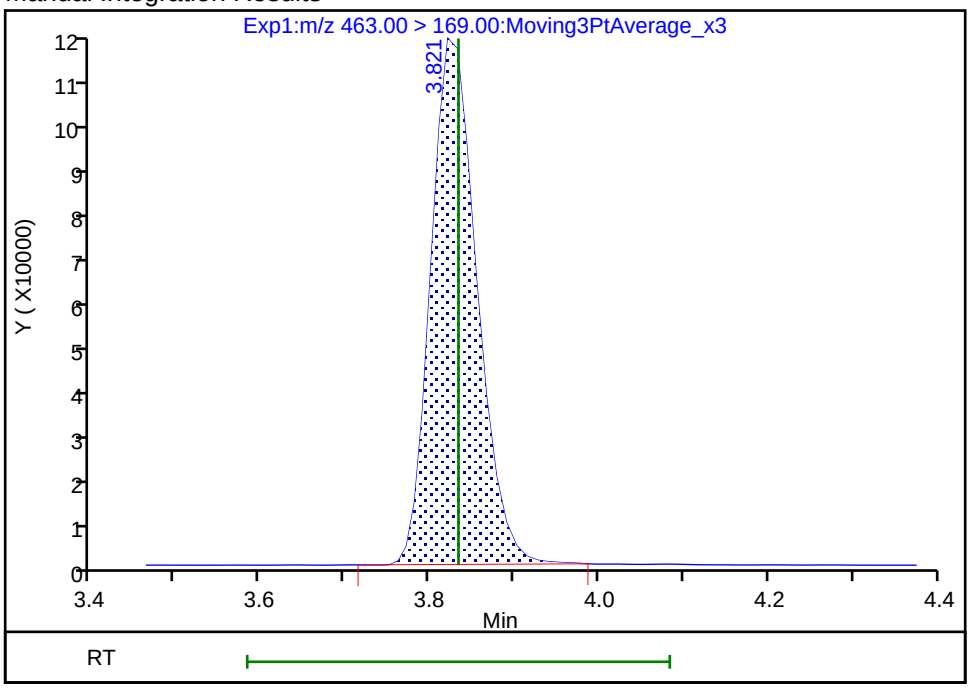
Processing Integration Results

RT: 3.82
Area: 431257
Amount: 2.368367
Amount Units: ng/ml



Manual Integration Results

RT: 3.82
Area: 428099
Amount: 2.367974
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:03:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

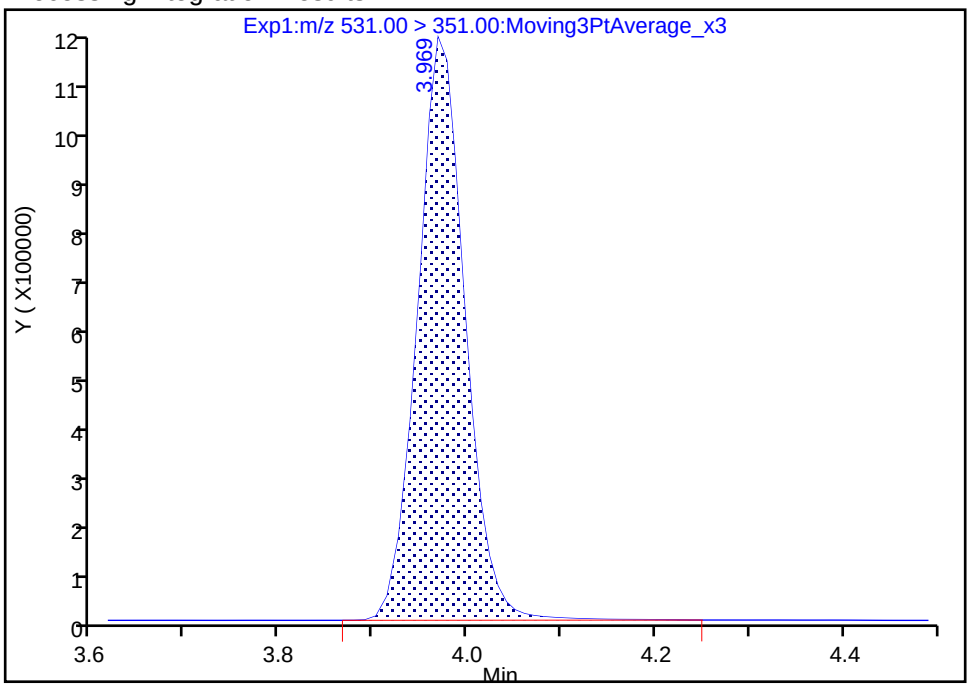
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

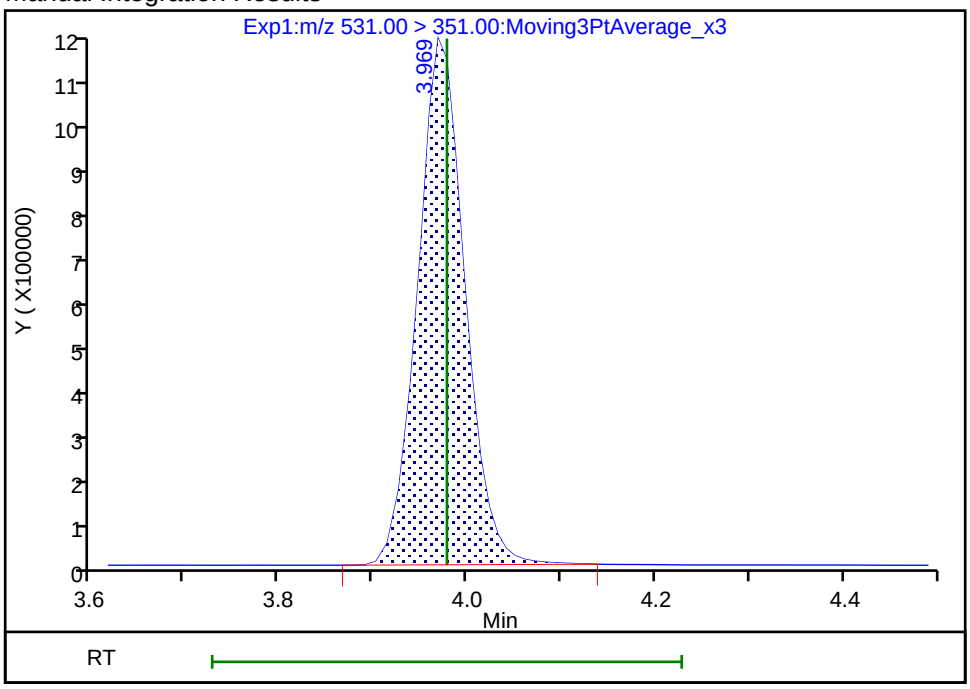
Processing Integration Results

RT: 3.97
Area: 4050709
Amount: 2.333307
Amount Units: ng/ml



Manual Integration Results

RT: 3.97
Area: 4030490
Amount: 2.335023
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:03:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

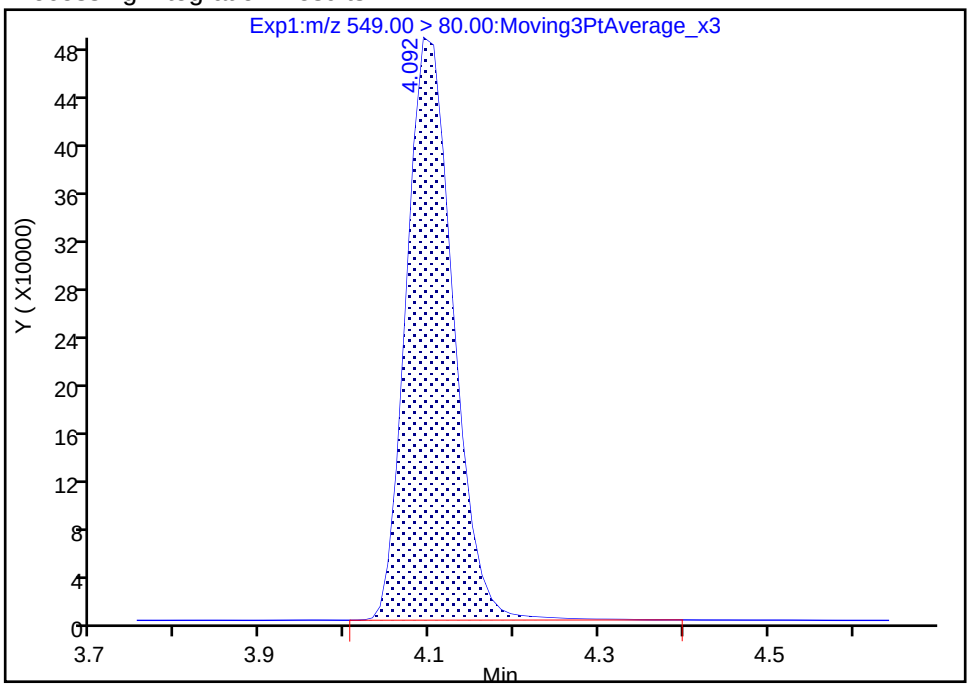
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

68 Perfluorononanesulfonic acid, CAS: 68259-12-1

Signal: 1

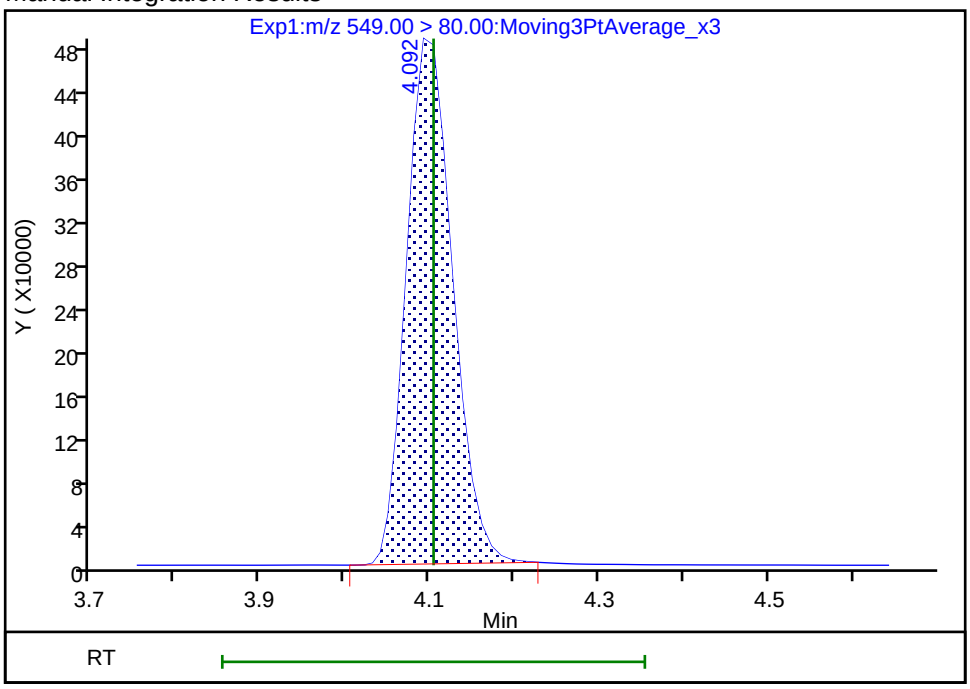
Processing Integration Results

RT: 4.09
Area: 1845798
Amount: 2.307439
Amount Units: ng/ml



Manual Integration Results

RT: 4.09
Area: 1823060
Amount: 2.304407
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:03:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

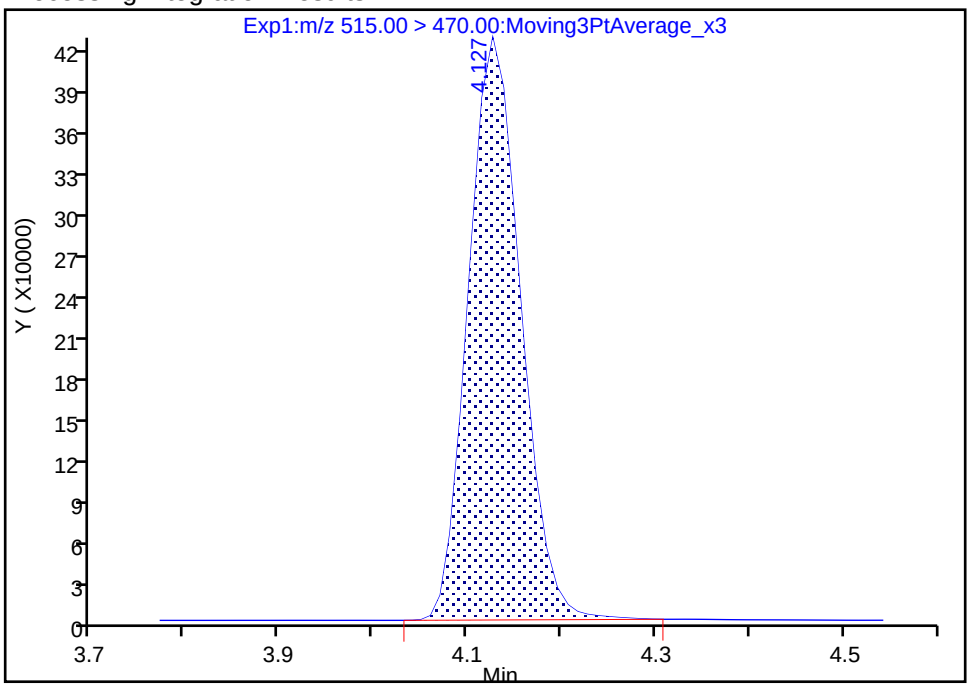
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

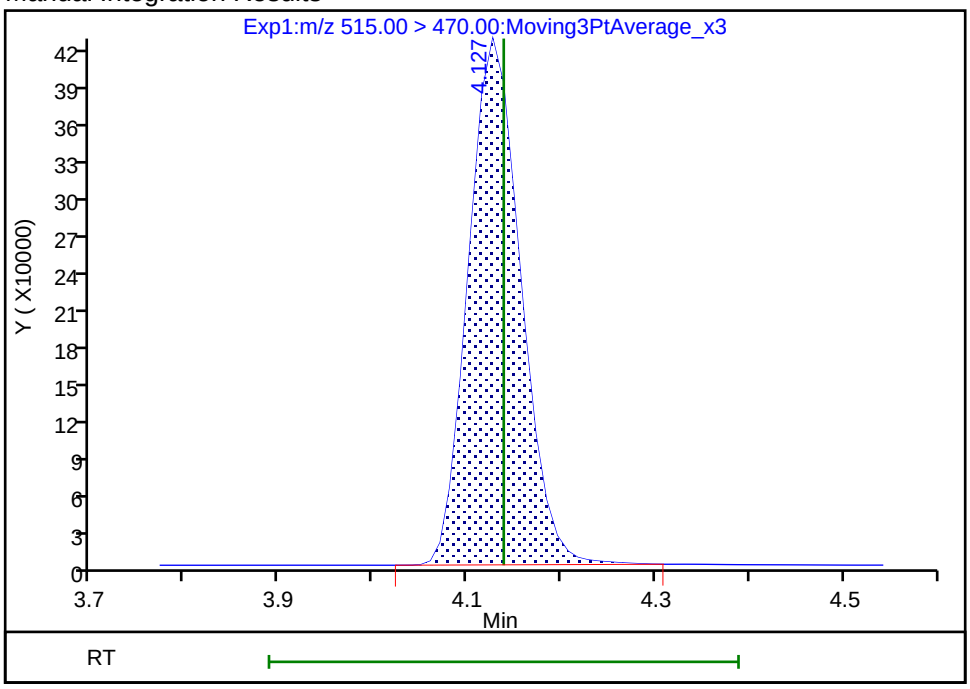
Processing Integration Results

RT: 4.13
Area: 1649206
Amount: 1.218027
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 1648953
Amount: 1.208397
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:03:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

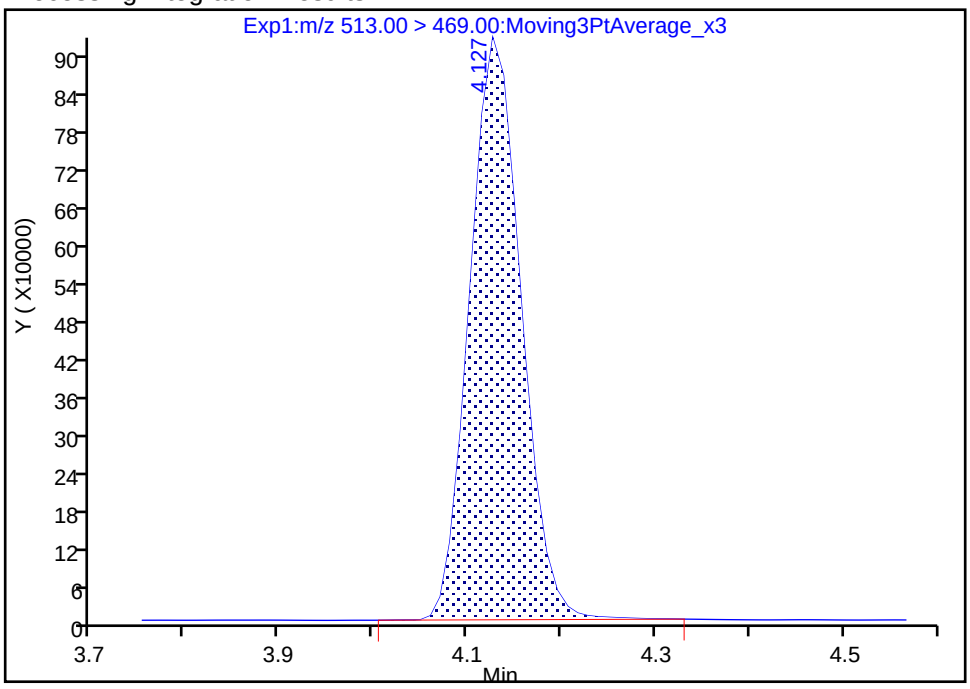
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

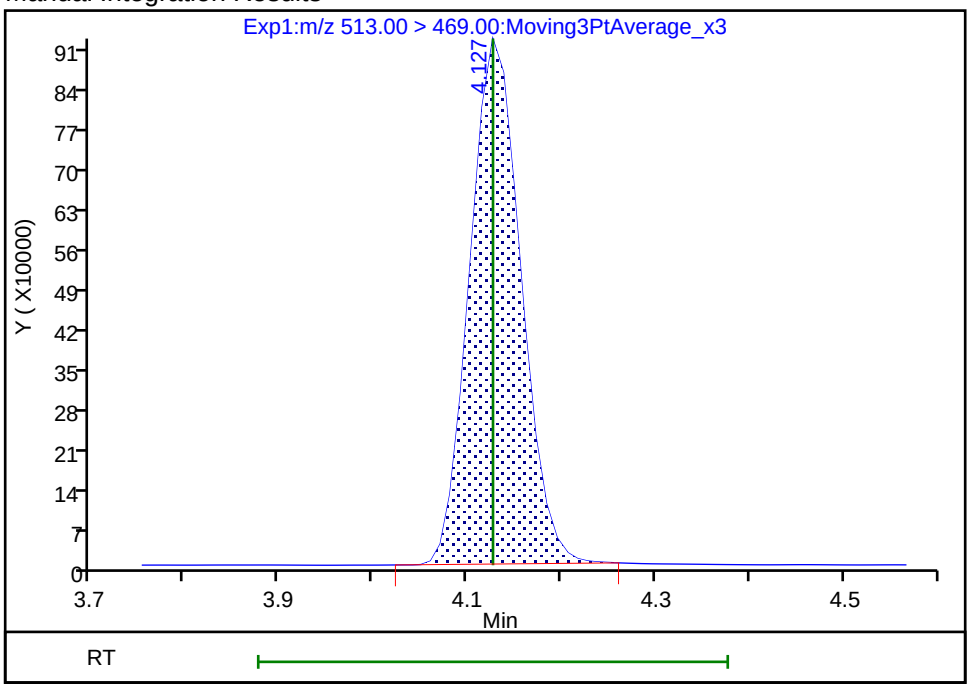
Processing Integration Results

RT: 4.13
Area: 3498545
Amount: 2.483513
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 3475217
Amount: 2.472780
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:03:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

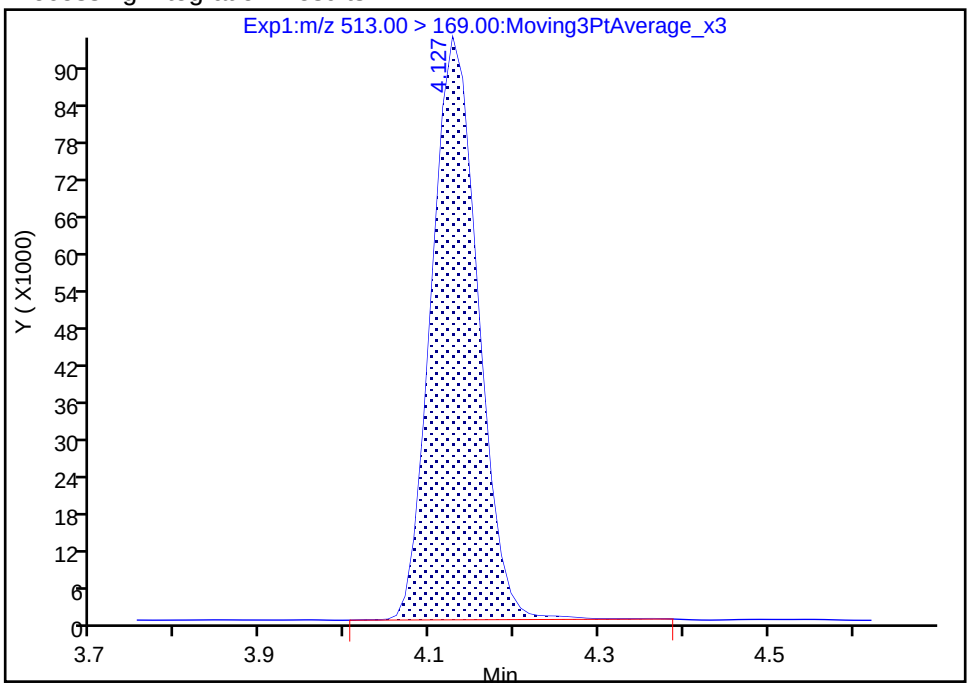
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

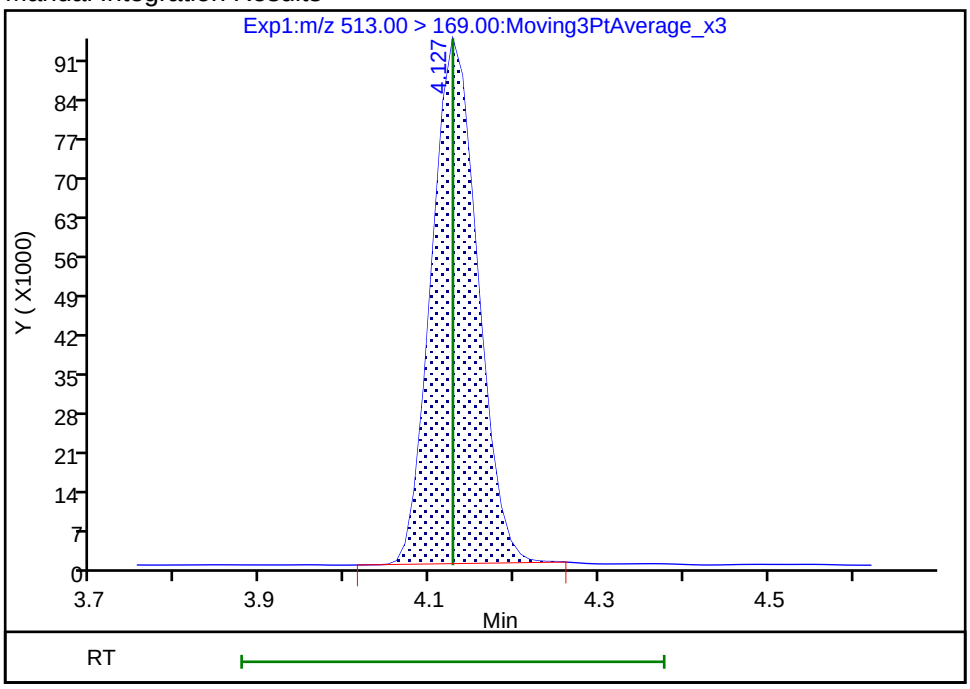
Processing Integration Results

RT: 4.13
Area: 358486
Amount: 2.483513
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 354489
Amount: 2.472780
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:03:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

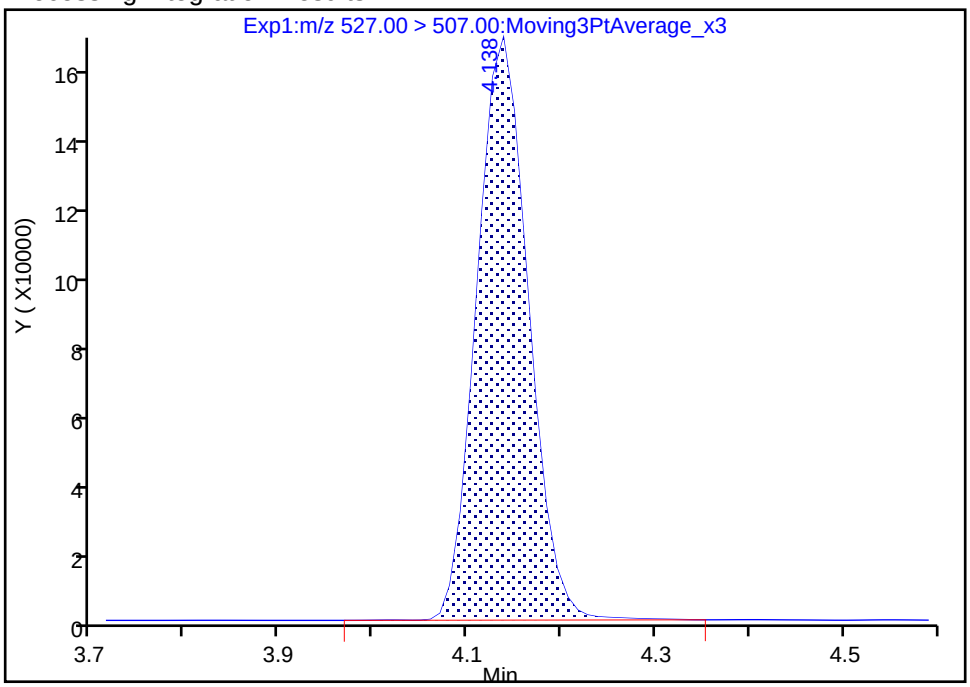
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

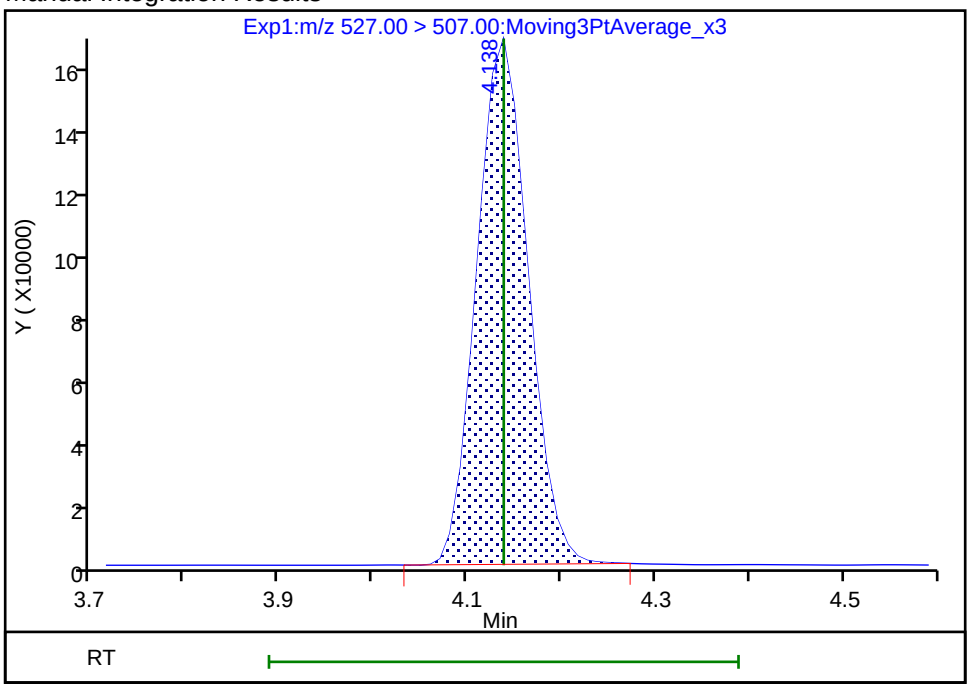
Processing Integration Results

RT: 4.14
Area: 624410
Amount: 2.265485
Amount Units: ng/ml



Manual Integration Results

RT: 4.14
Area: 620056
Amount: 2.264757
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:03:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

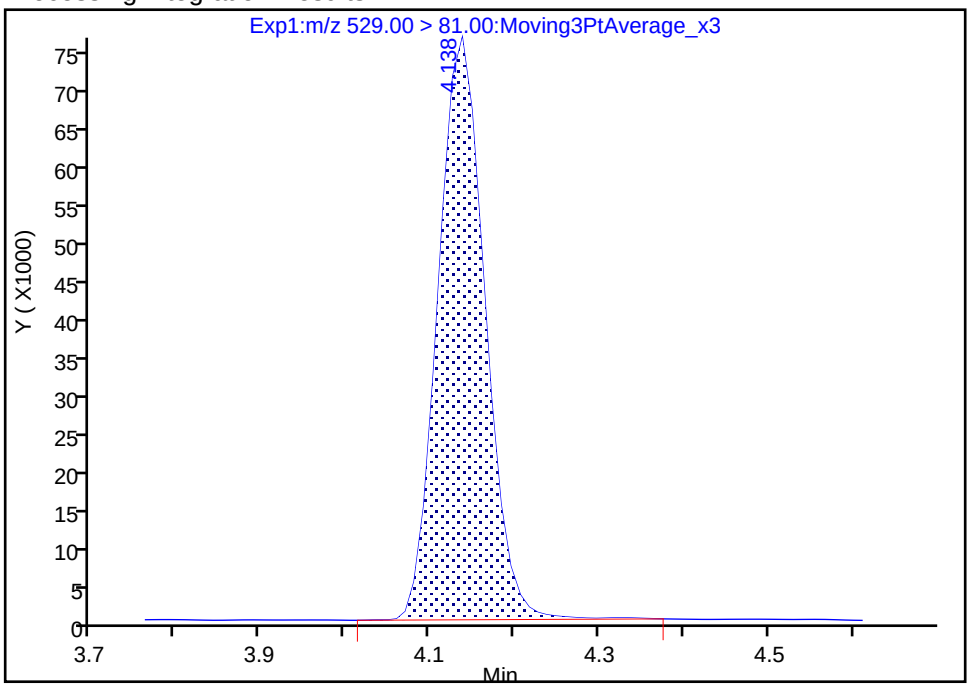
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 26 M2-8:2 FTS, CAS: STL02280

Signal: 1

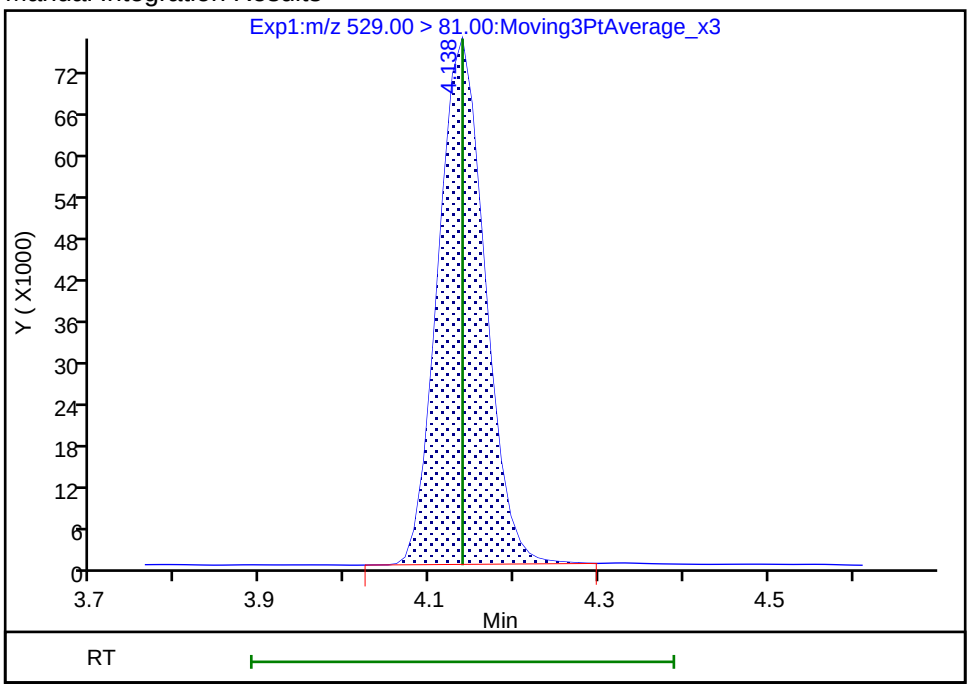
Processing Integration Results

RT: 4.14
Area: 295995
Amount: 1.181150
Amount Units: ng/ml



Manual Integration Results

RT: 4.14
Area: 294549
Amount: 1.179182
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:03:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

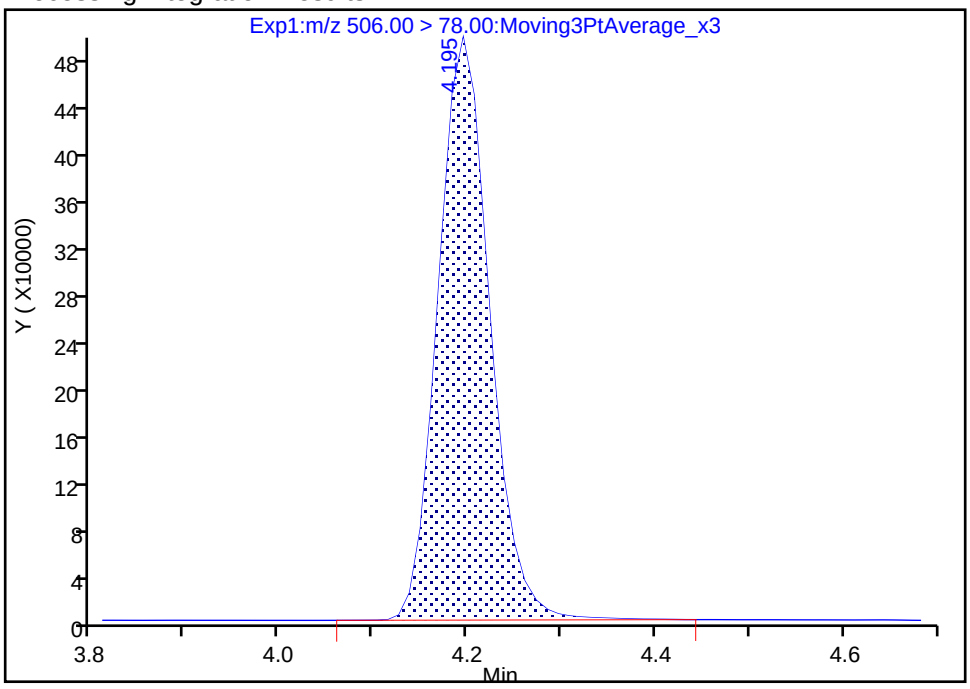
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

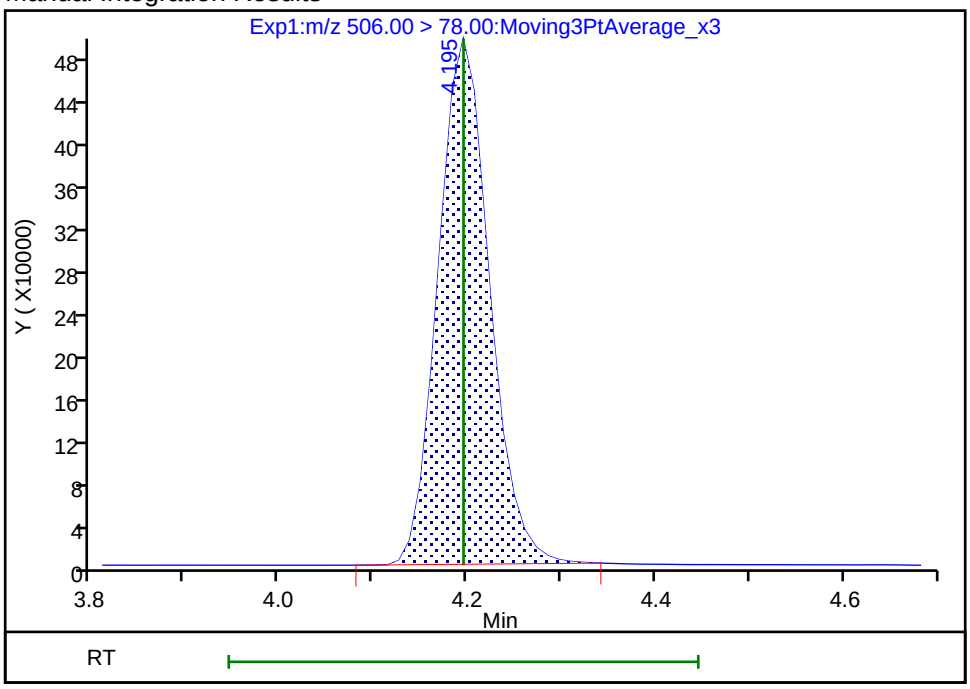
Processing Integration Results

RT: 4.20
Area: 1873263
Amount: 1.247148
Amount Units: ng/ml



Manual Integration Results

RT: 4.20
Area: 1857858
Amount: 1.237504
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:03:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

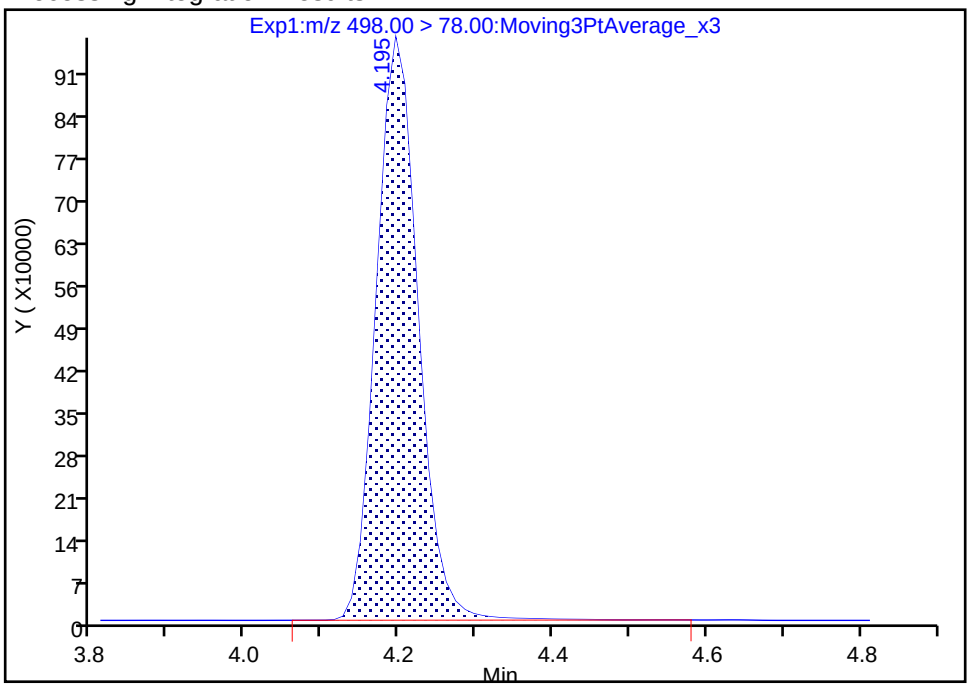
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

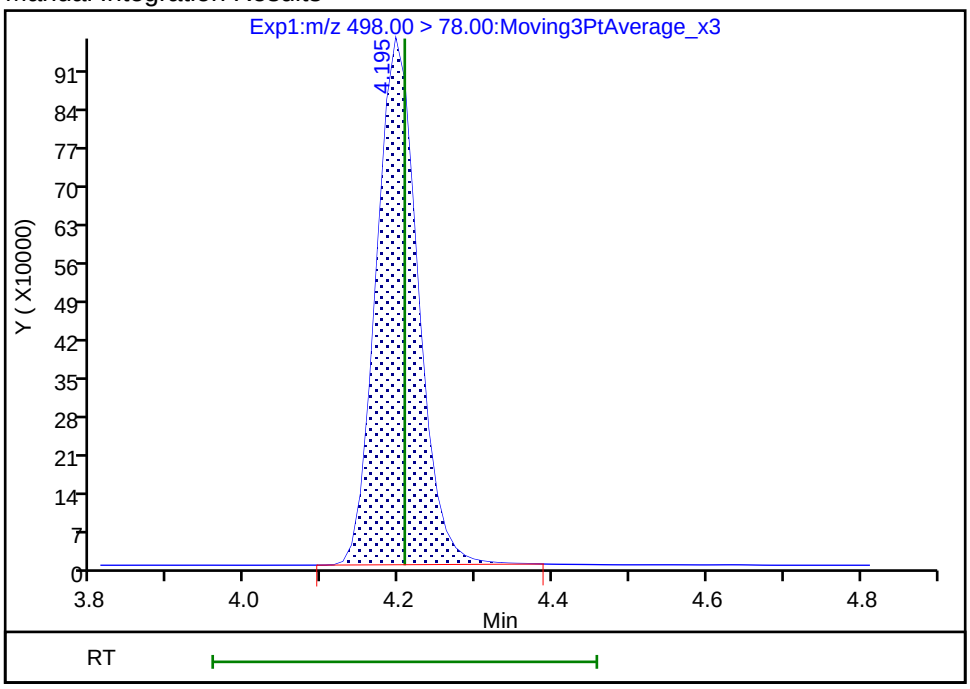
Processing Integration Results

RT: 4.20
Area: 3649509
Amount: 2.417167
Amount Units: ng/ml



Manual Integration Results

RT: 4.20
Area: 3627662
Amount: 2.405355
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:04:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

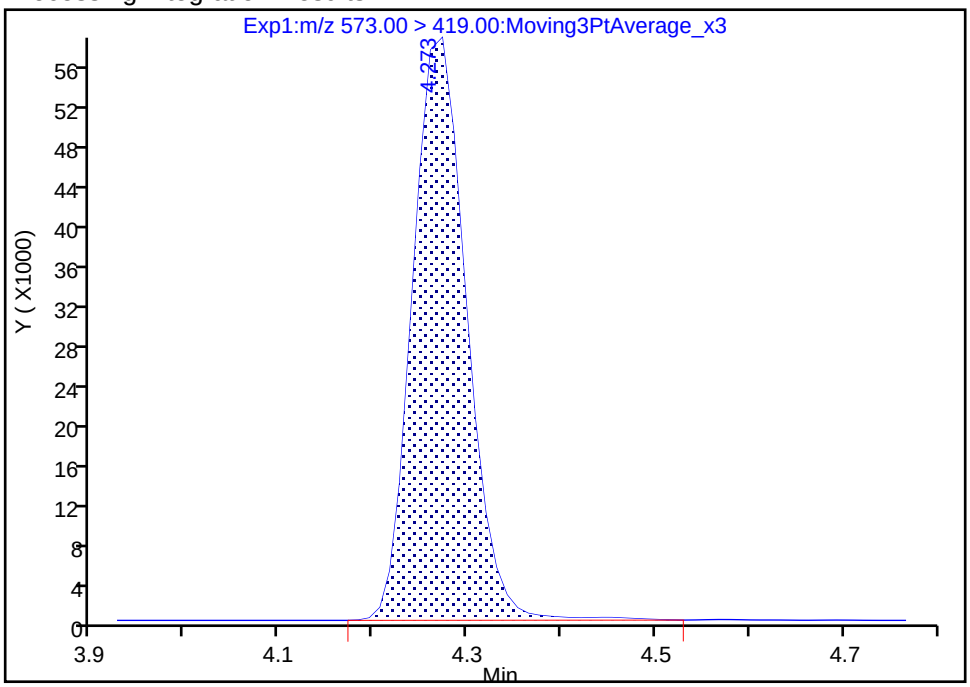
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

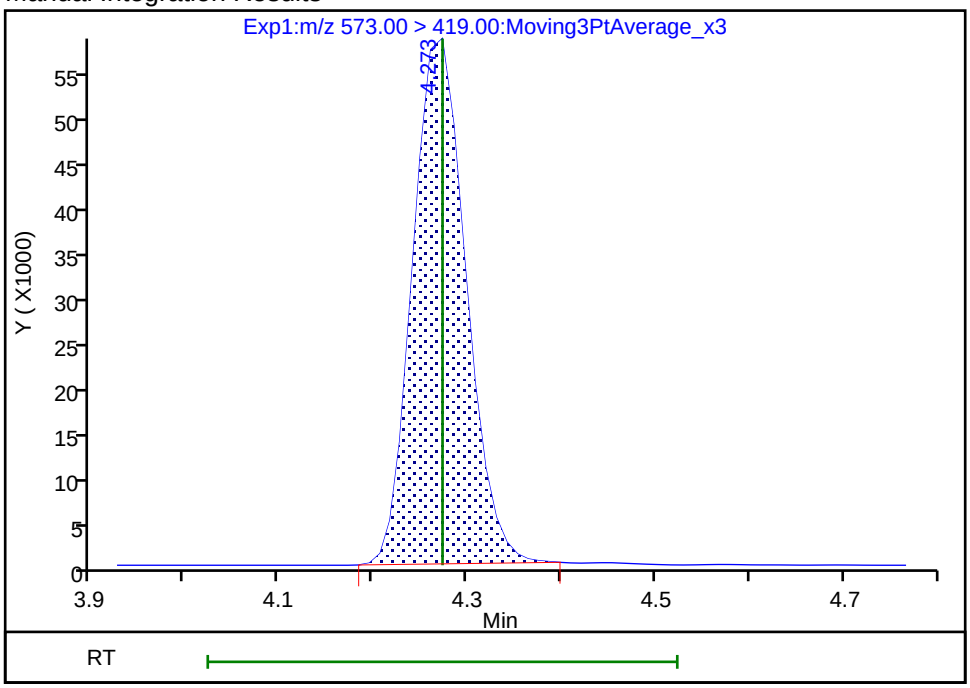
Processing Integration Results

RT: 4.27
Area: 235349
Amount: 1.298195
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 231863
Amount: 1.280112
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:04:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

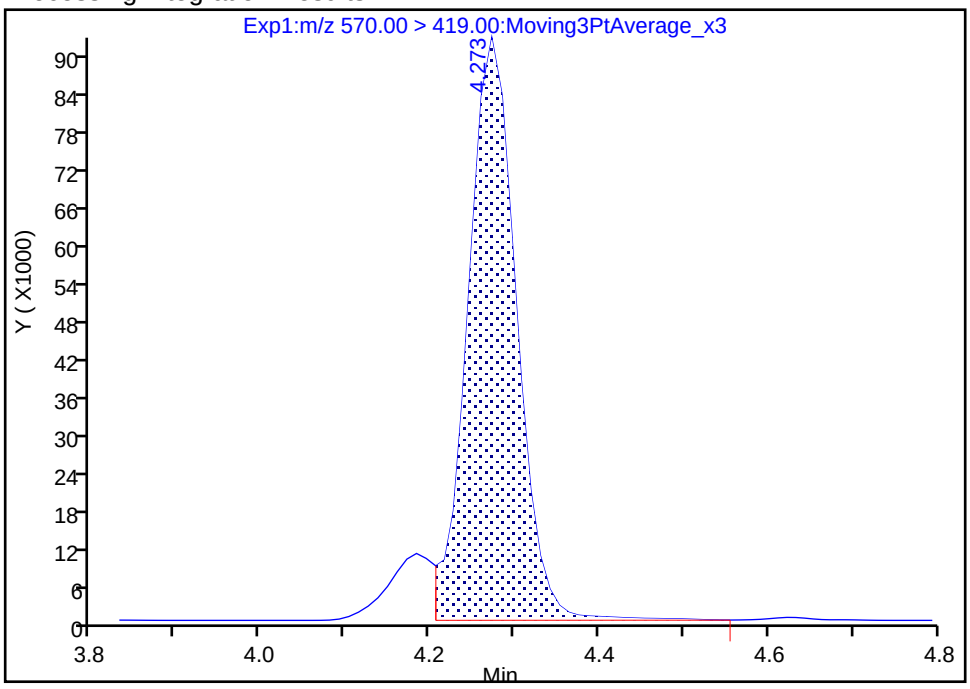
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

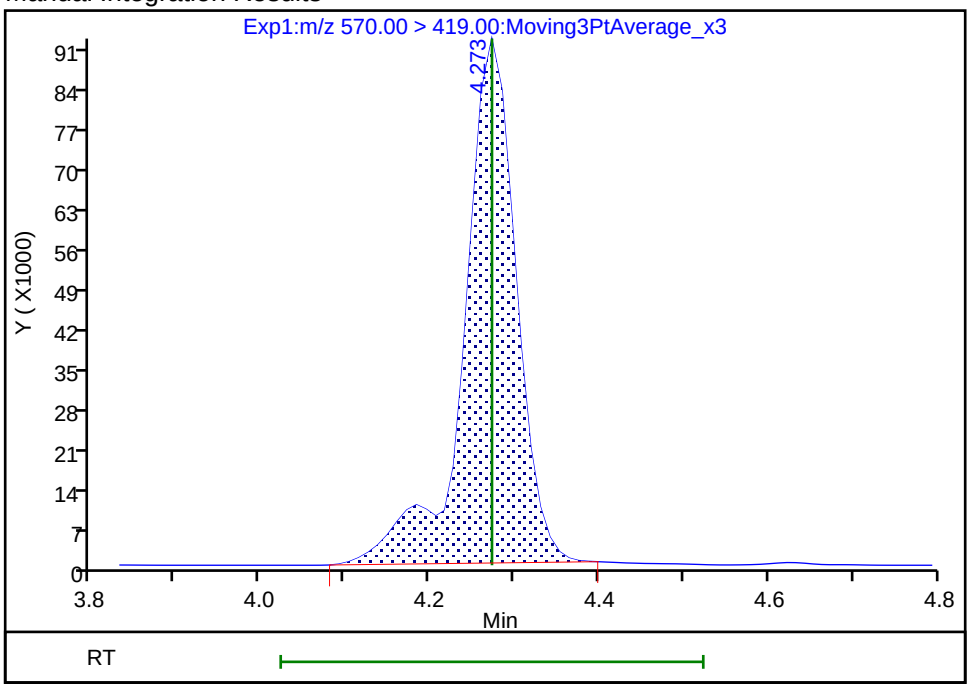
Processing Integration Results

RT: 4.27
Area: 368375
Amount: 2.362238
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 397876
Amount: 2.358645
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:04:16
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

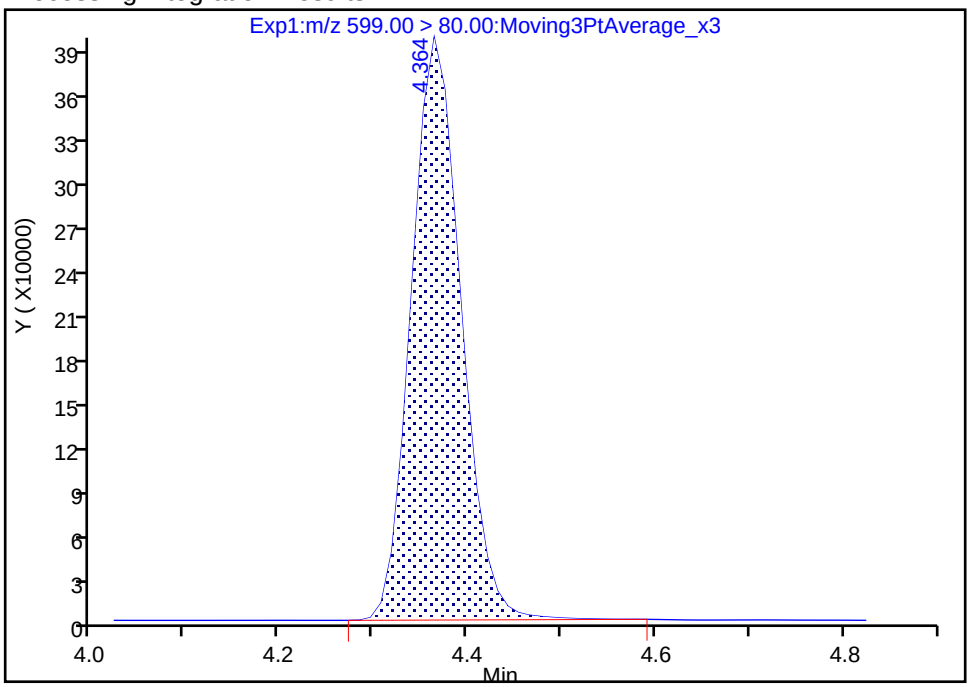
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

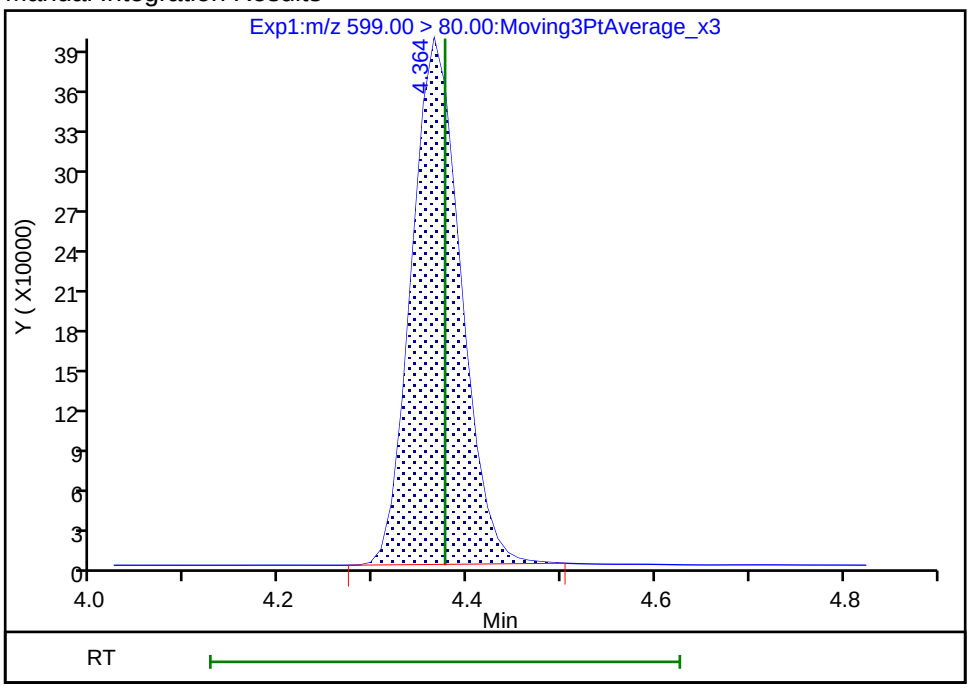
Processing Integration Results

RT: 4.36
Area: 1459002
Amount: 2.394327
Amount Units: ng/ml



Manual Integration Results

RT: 4.36
Area: 1450529
Amount: 2.404419
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:04:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

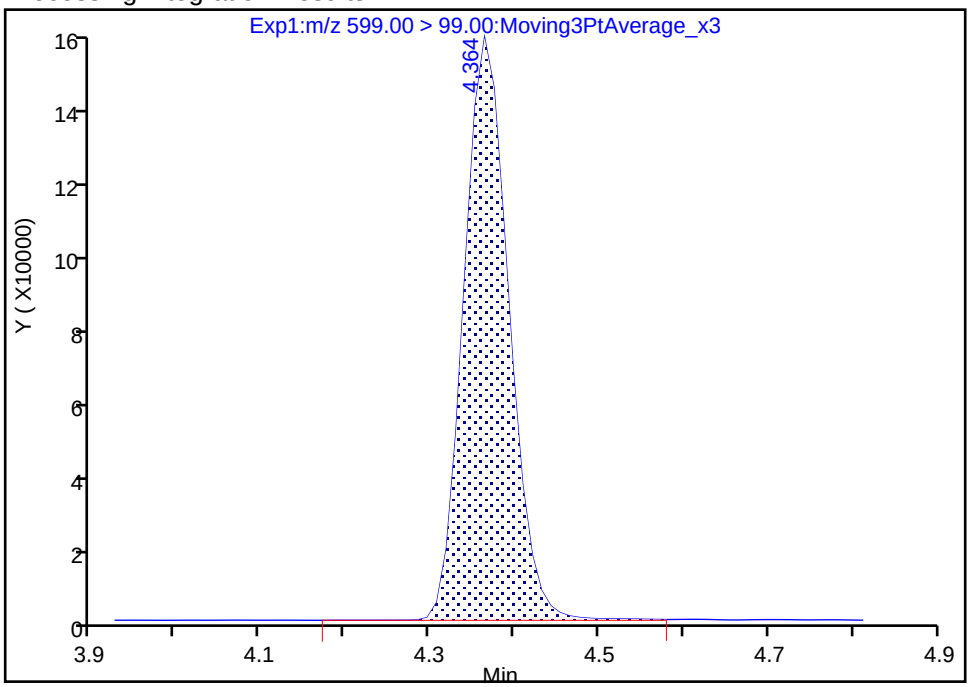
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d				
Injection Date:	05-May-2022 15:46:19	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

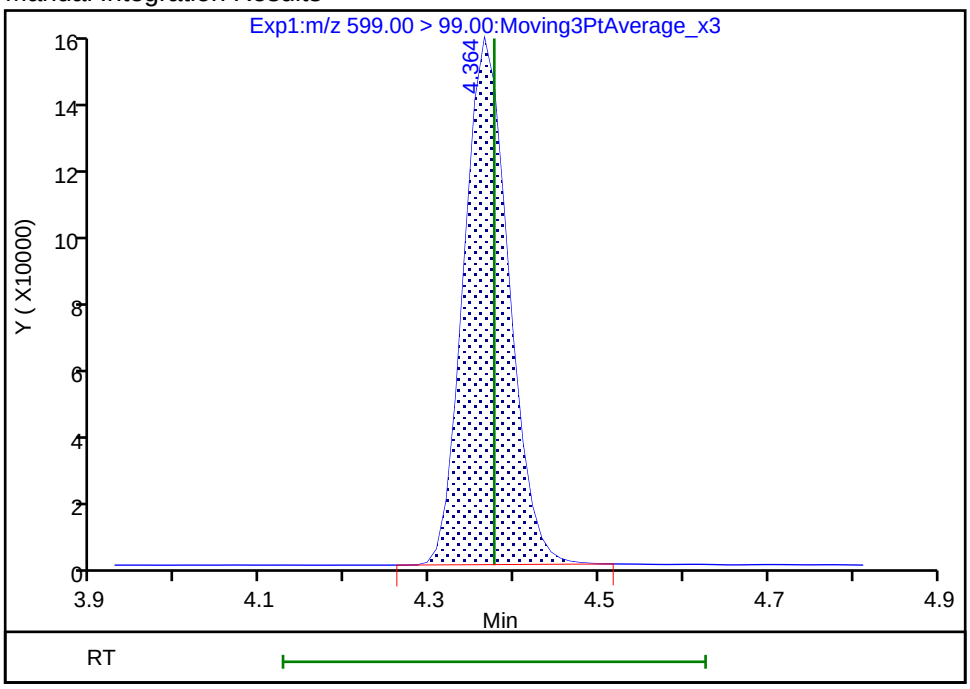
Processing Integration Results

RT: 4.36
Area: 581285
Amount: 2.394327
Amount Units: ng/ml



Manual Integration Results

RT: 4.36
Area: 576933
Amount: 2.404419
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:04:24

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

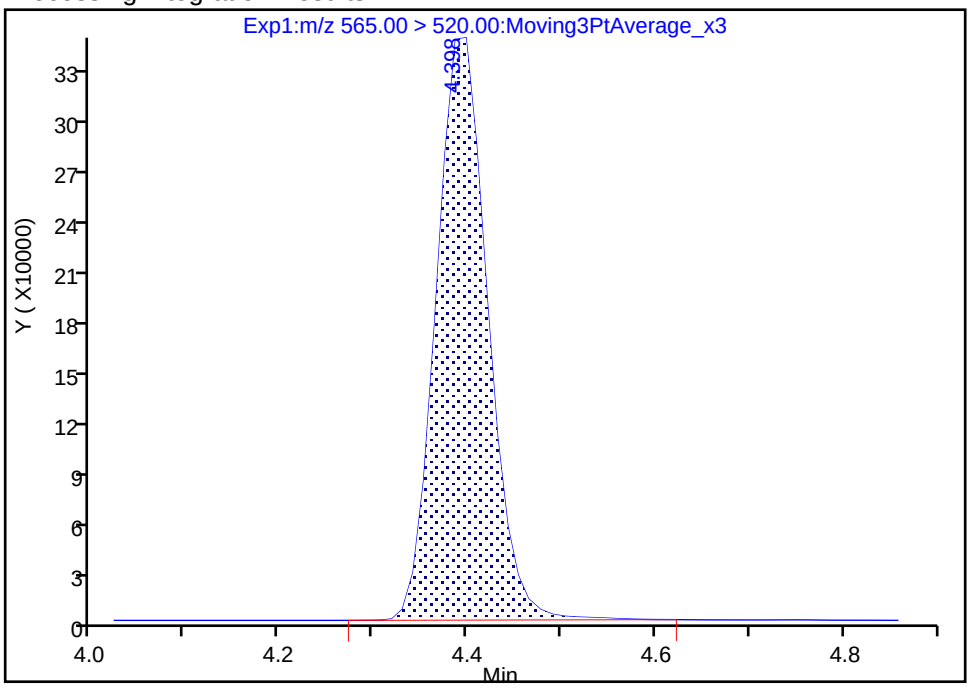
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

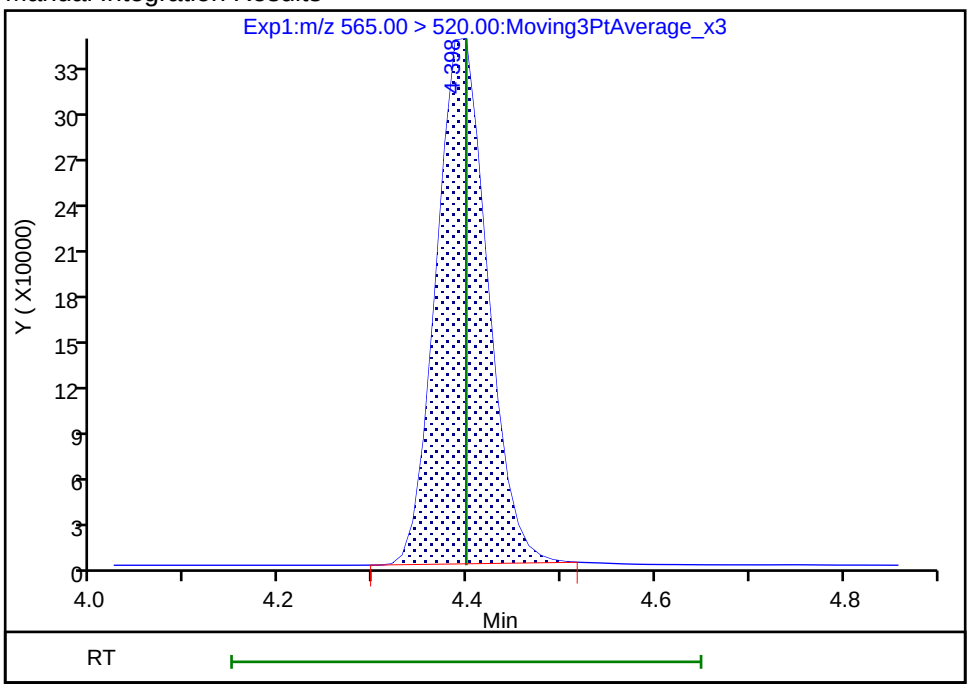
Processing Integration Results

RT: 4.40
Area: 1317673
Amount: 1.205784
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 1302590
Amount: 1.188918
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:04:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

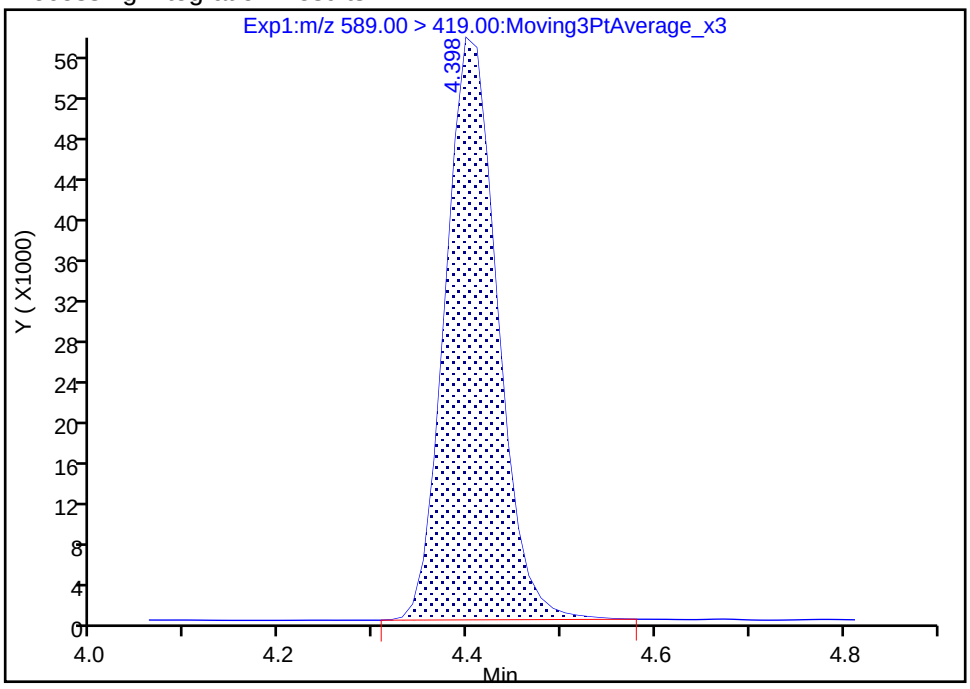
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

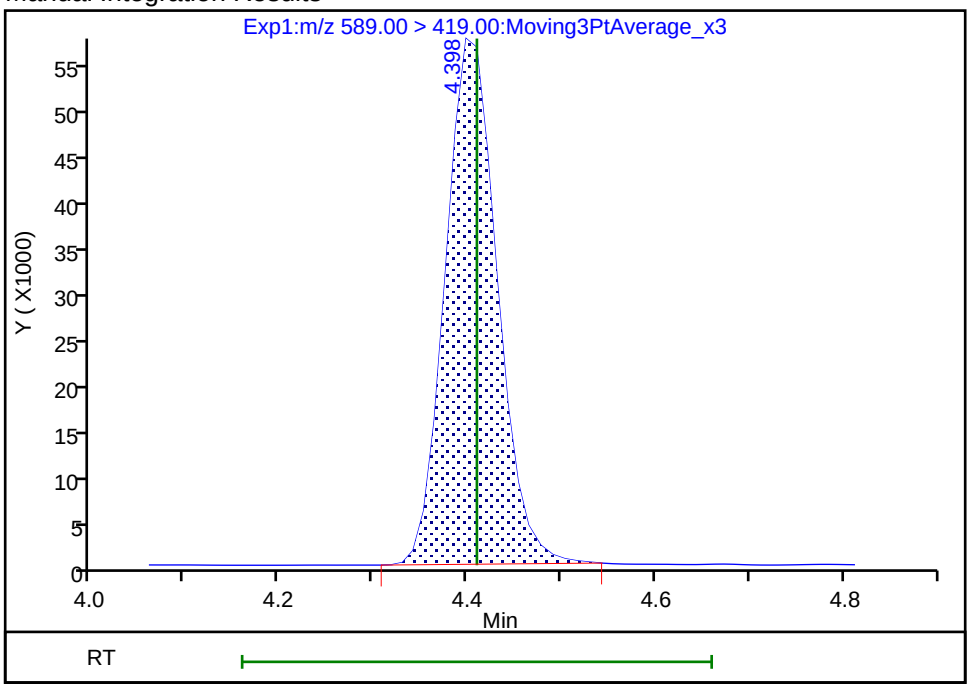
Processing Integration Results

RT: 4.40
Area: 220539
Amount: 1.240724
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 219457
Amount: 1.240413
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:04:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

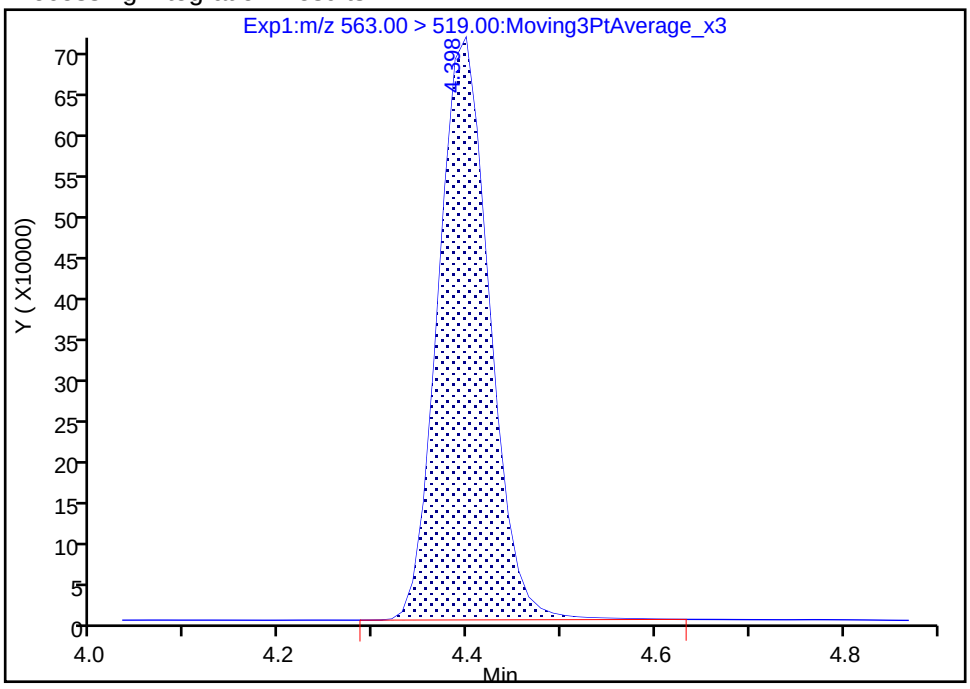
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

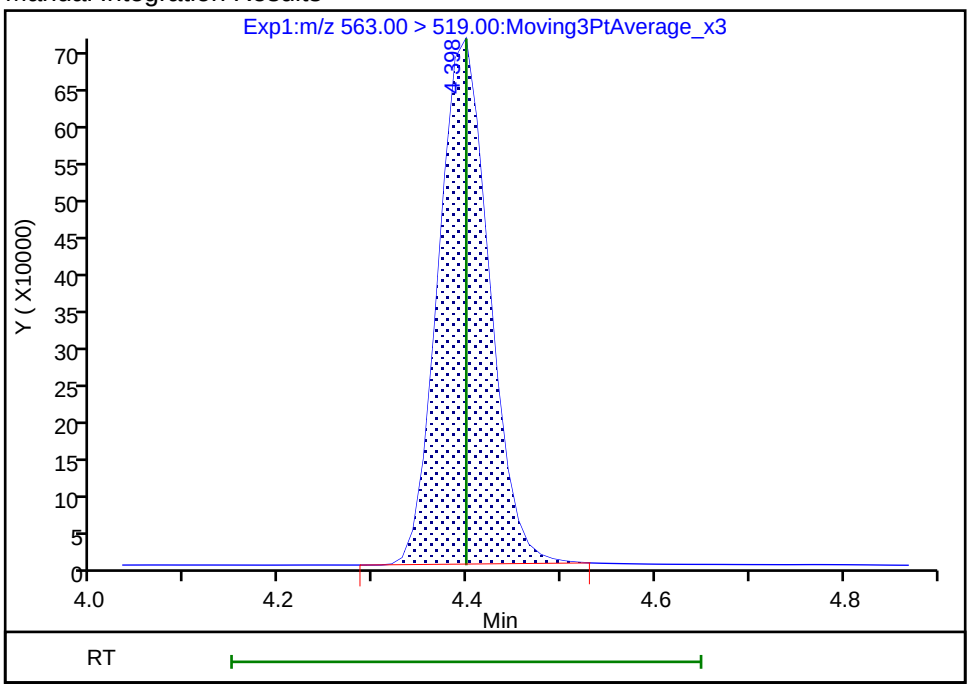
Processing Integration Results

RT: 4.40
Area: 2695405
Amount: 2.458290
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 2673619
Amount: 2.489561
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:04:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

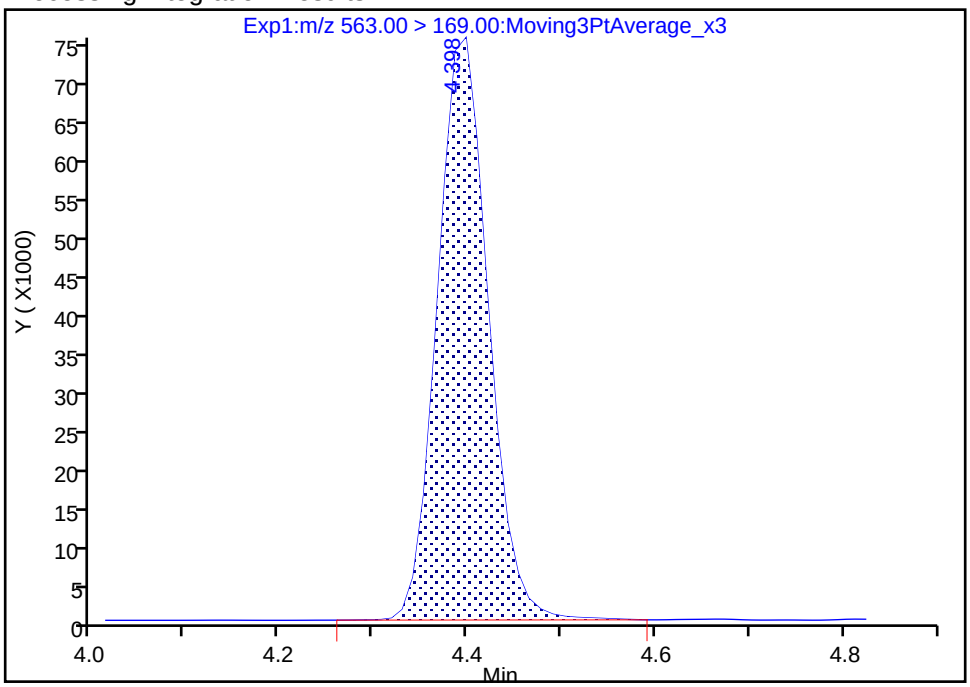
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

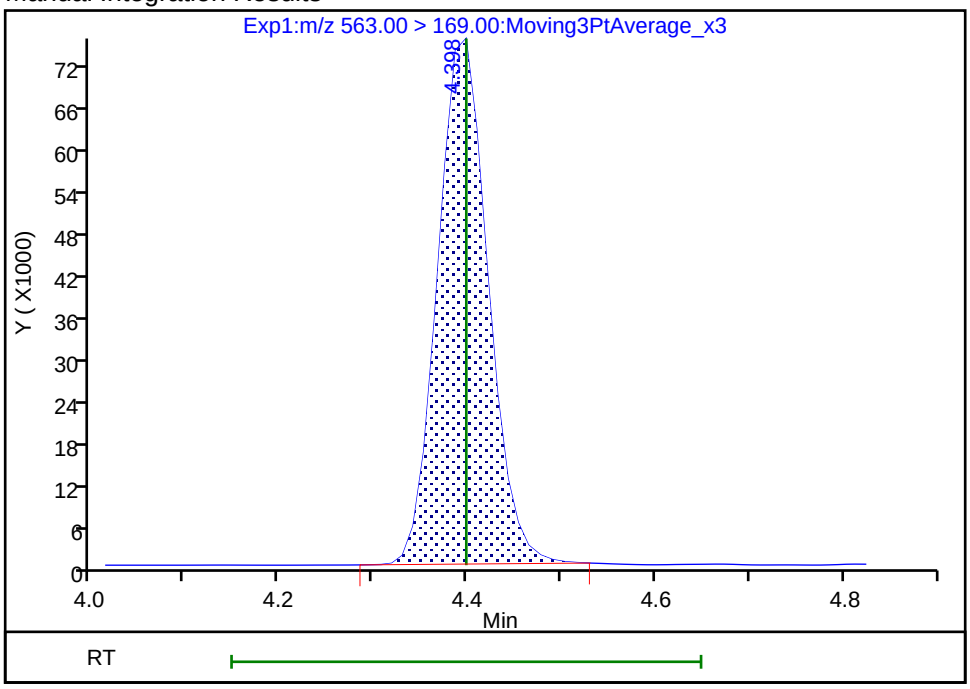
Processing Integration Results

RT: 4.40
Area: 281625
Amount: 2.458290
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 279244
Amount: 2.489561
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:04:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

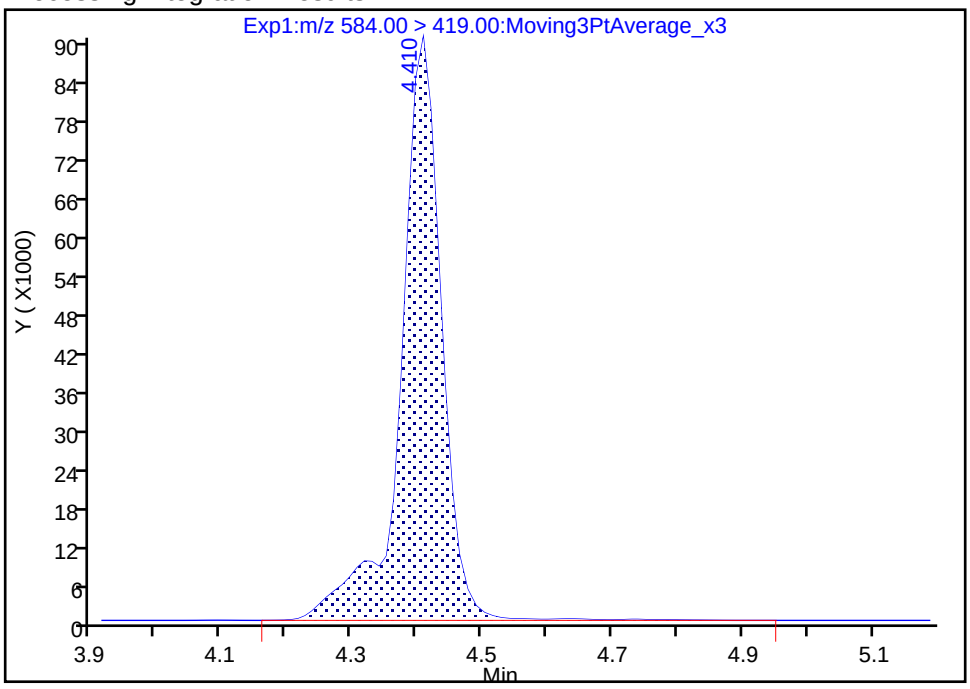
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

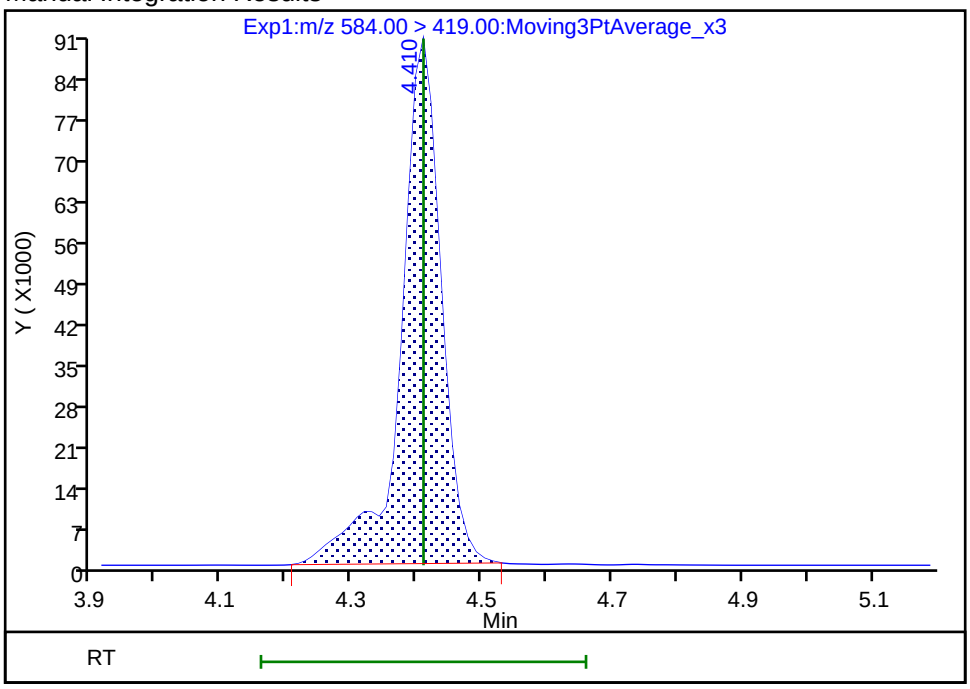
Processing Integration Results

RT: 4.41
Area: 393431
Amount: 2.541692
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 386005
Amount: 2.343627
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:04:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

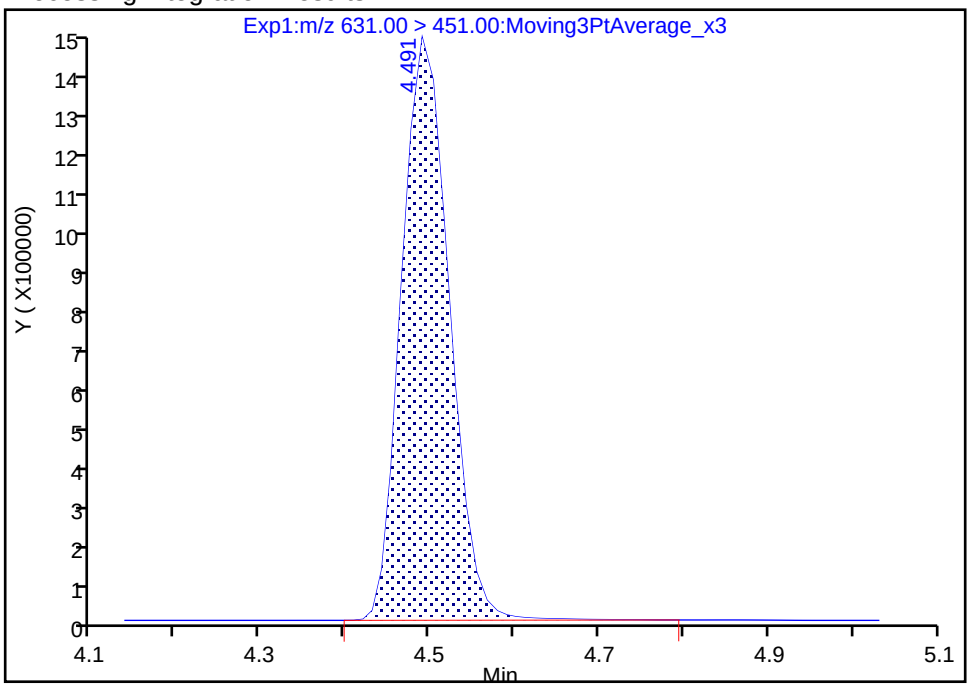
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

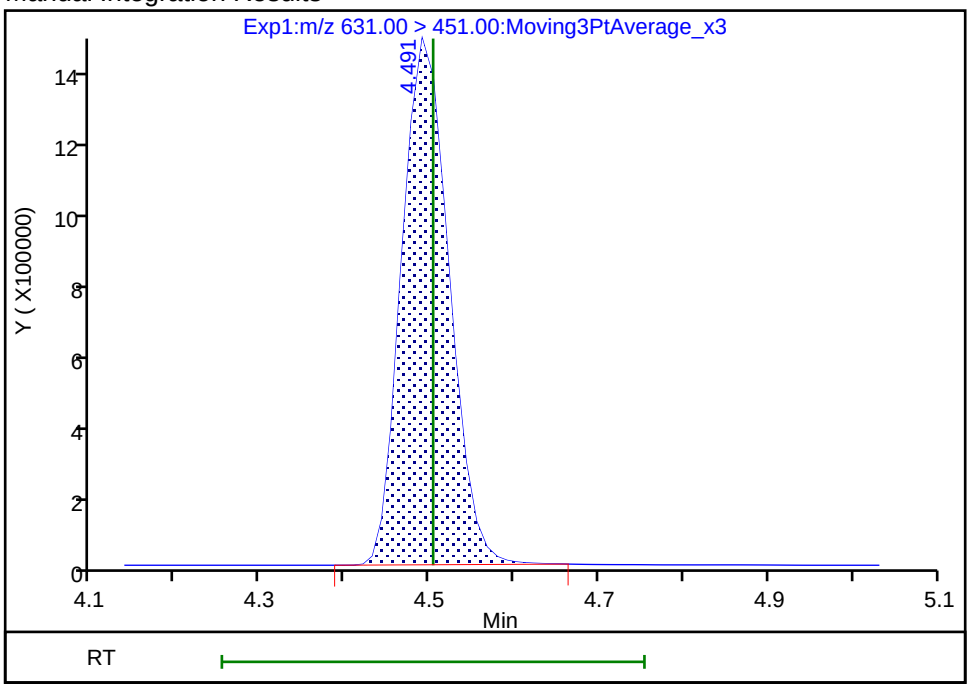
Processing Integration Results

RT: 4.49
Area: 5619118
Amount: 2.327856
Amount Units: ng/ml



Manual Integration Results

RT: 4.49
Area: 5591229
Amount: 2.341451
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:05:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

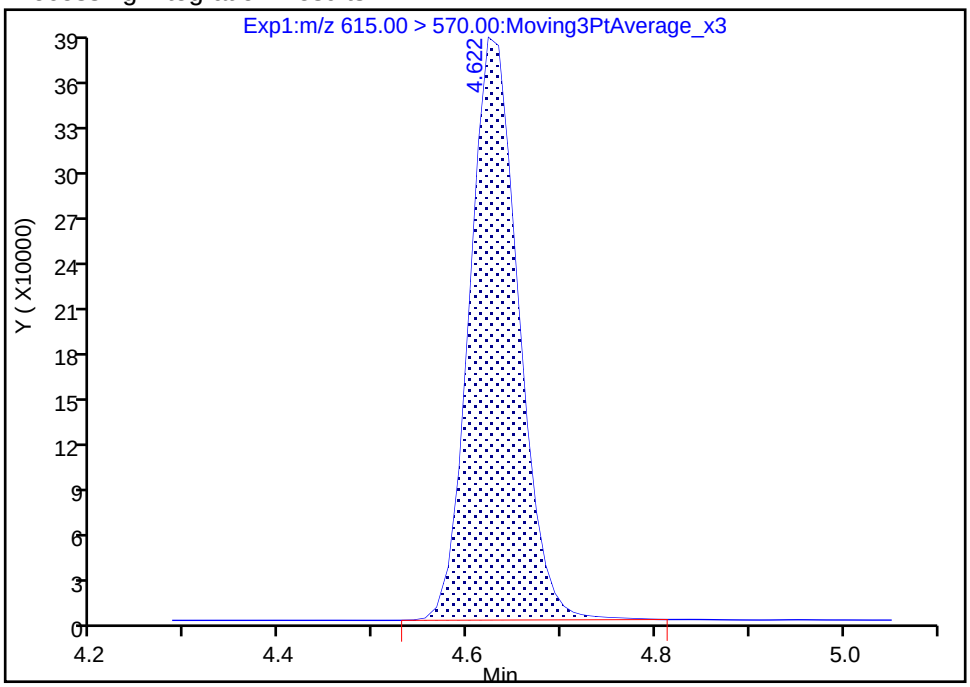
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 36 13C2 PFDoA, CAS: STL00998

Signal: 1

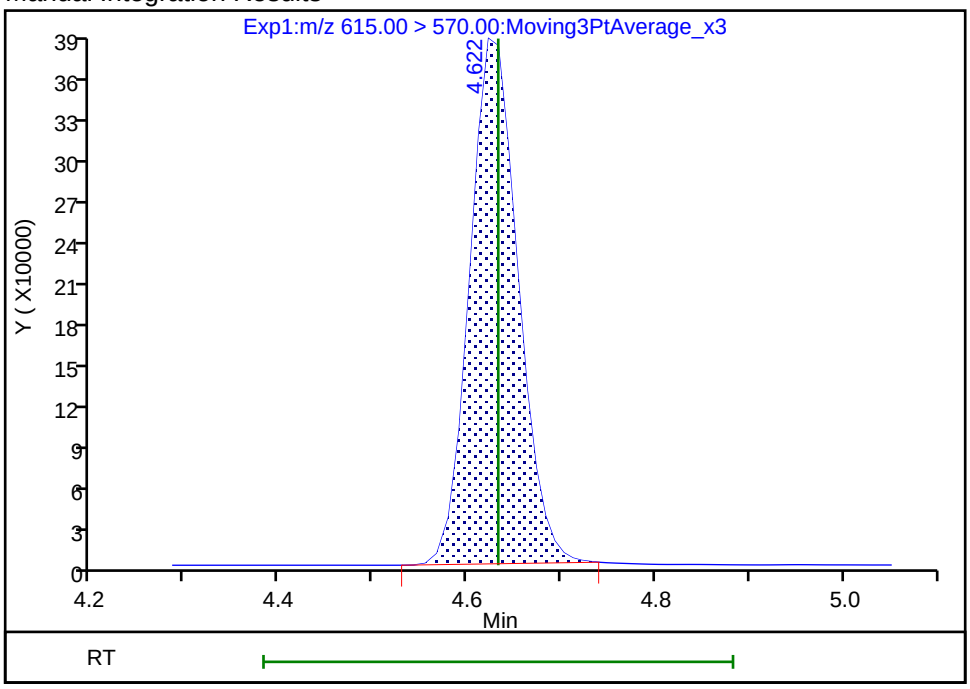
Processing Integration Results

RT: 4.62
Area: 1396930
Amount: 1.203279
Amount Units: ng/ml



Manual Integration Results

RT: 4.62
Area: 1382222
Amount: 1.181321
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:05:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

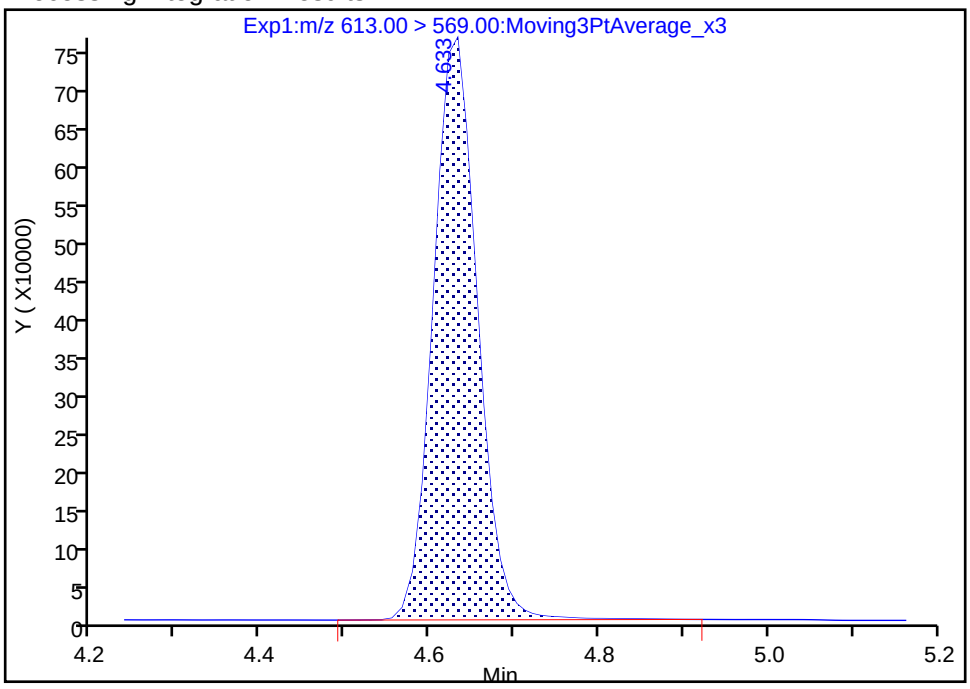
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

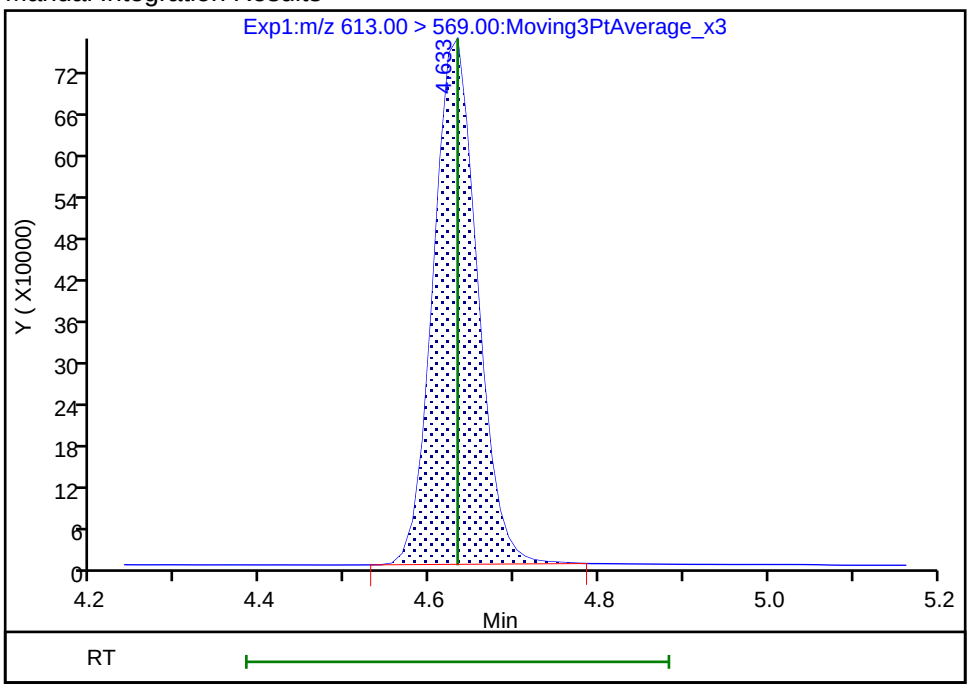
Processing Integration Results

RT: 4.63
Area: 2770183
Amount: 2.424243
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 2751740
Amount: 2.412837
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:05:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

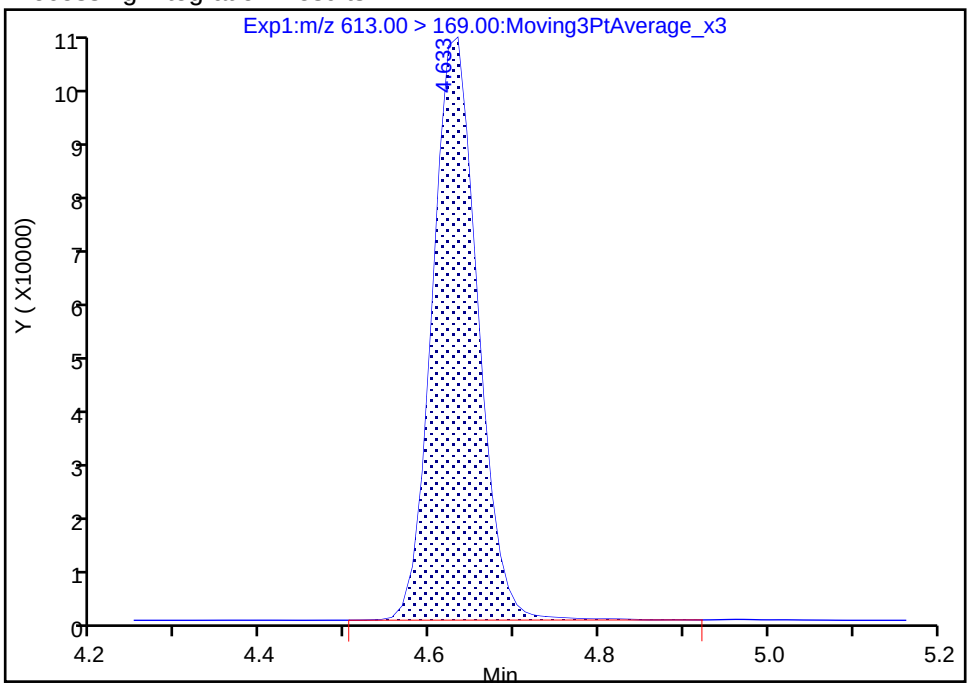
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

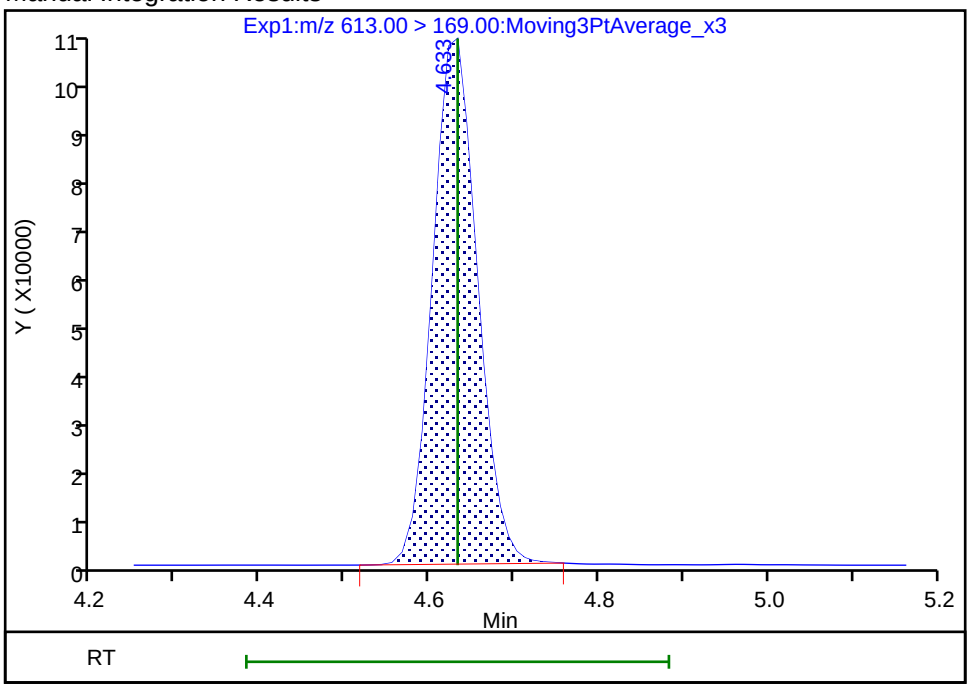
Processing Integration Results

RT: 4.63
Area: 383150
Amount: 2.424243
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 379347
Amount: 2.412837
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:05:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

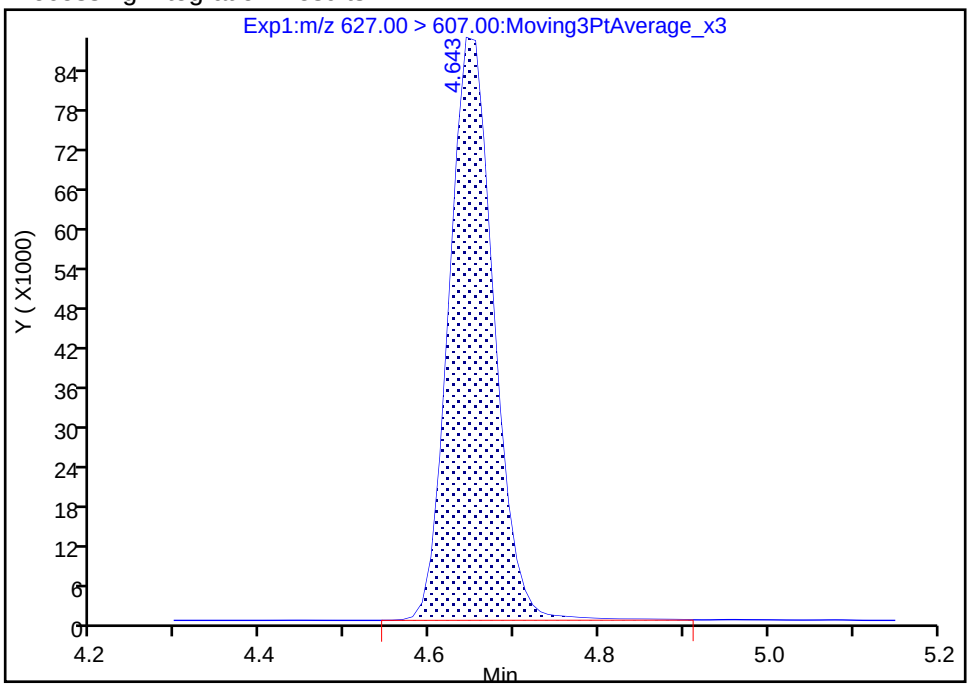
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

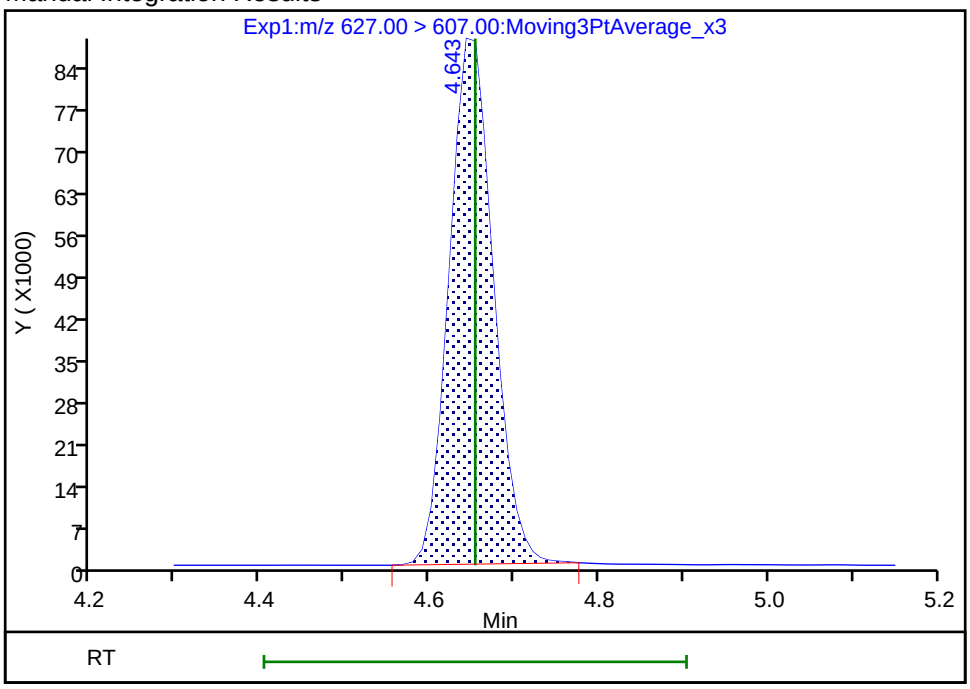
Processing Integration Results

RT: 4.64
Area: 323028
Amount: 2.384872
Amount Units: ng/ml



Manual Integration Results

RT: 4.64
Area: 319011
Amount: 2.343318
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:05:20
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

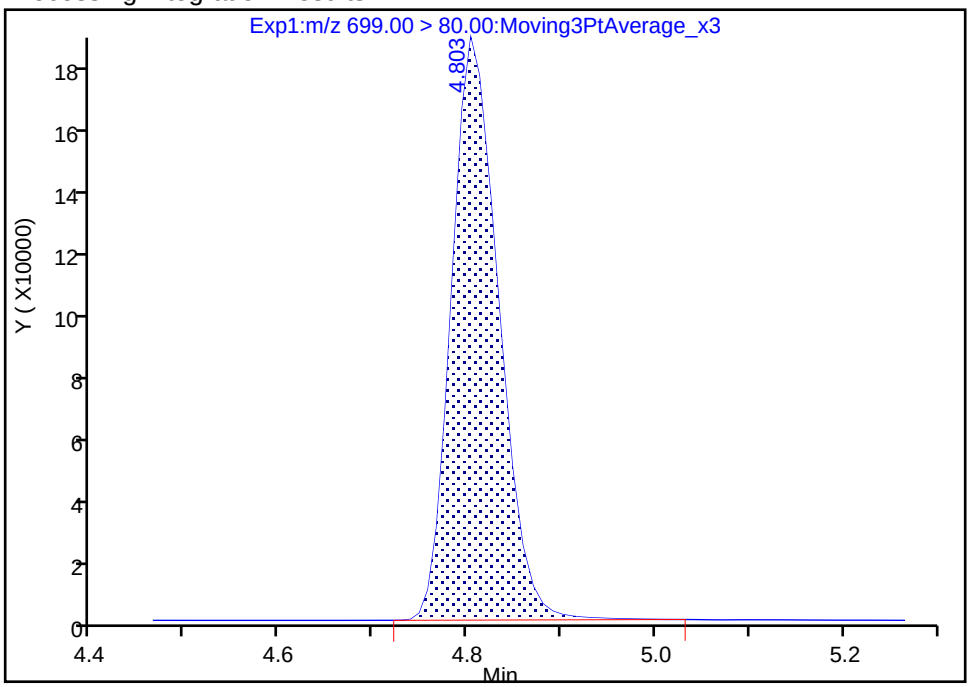
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

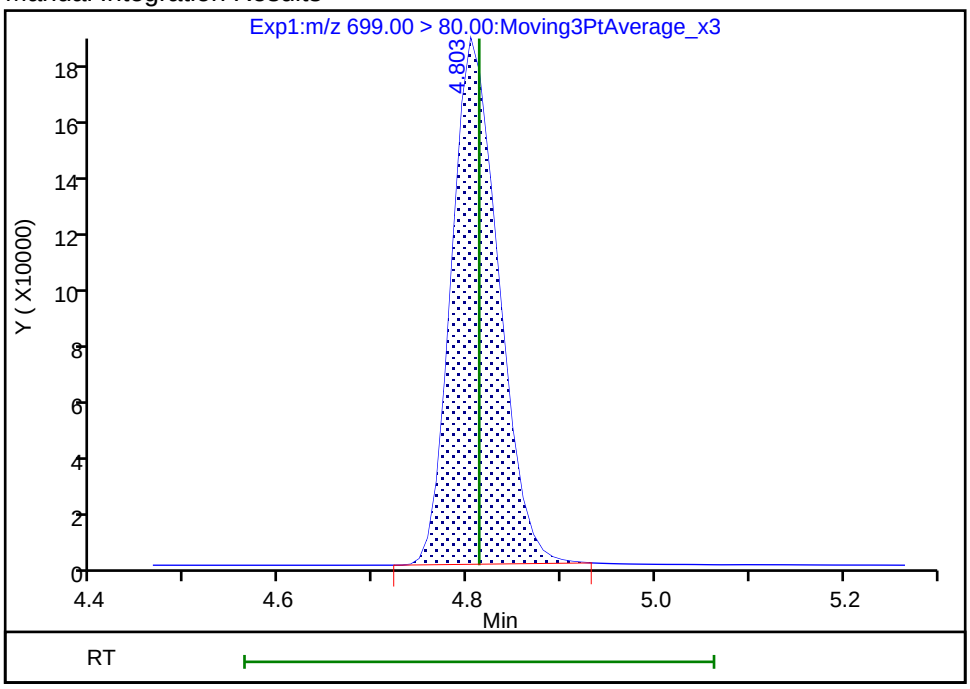
Processing Integration Results

RT: 4.80
Area: 658928
Amount: 2.418212
Amount Units: ng/ml



Manual Integration Results

RT: 4.80
Area: 653613
Amount: 2.384230
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:05:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

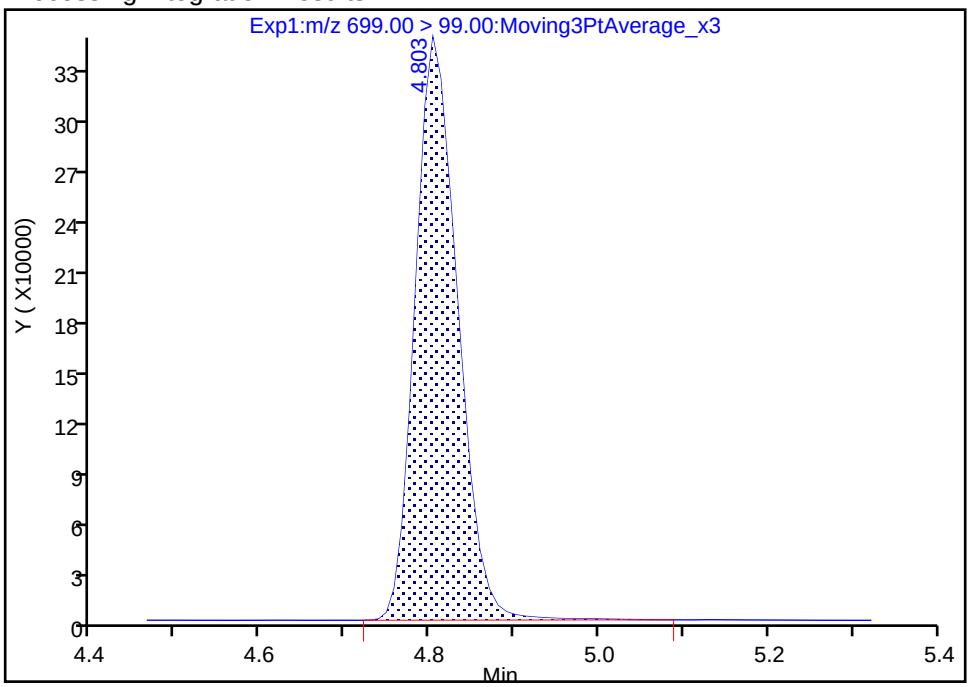
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

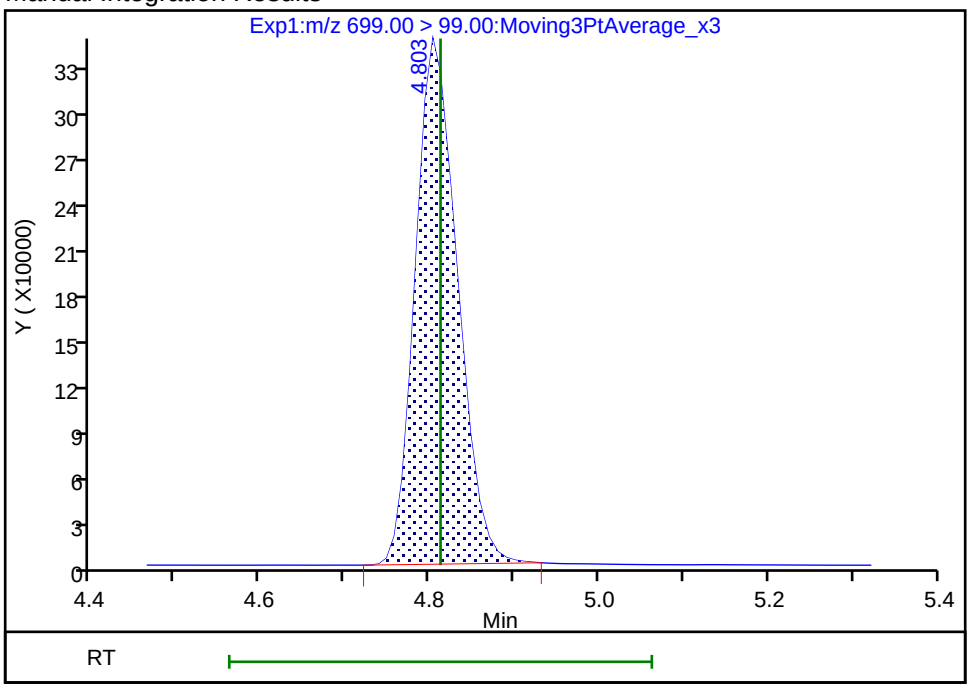
Processing Integration Results

RT: 4.80
Area: 1190097
Amount: 2.418212
Amount Units: ng/ml



Manual Integration Results

RT: 4.80
Area: 1176911
Amount: 2.384230
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:05:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

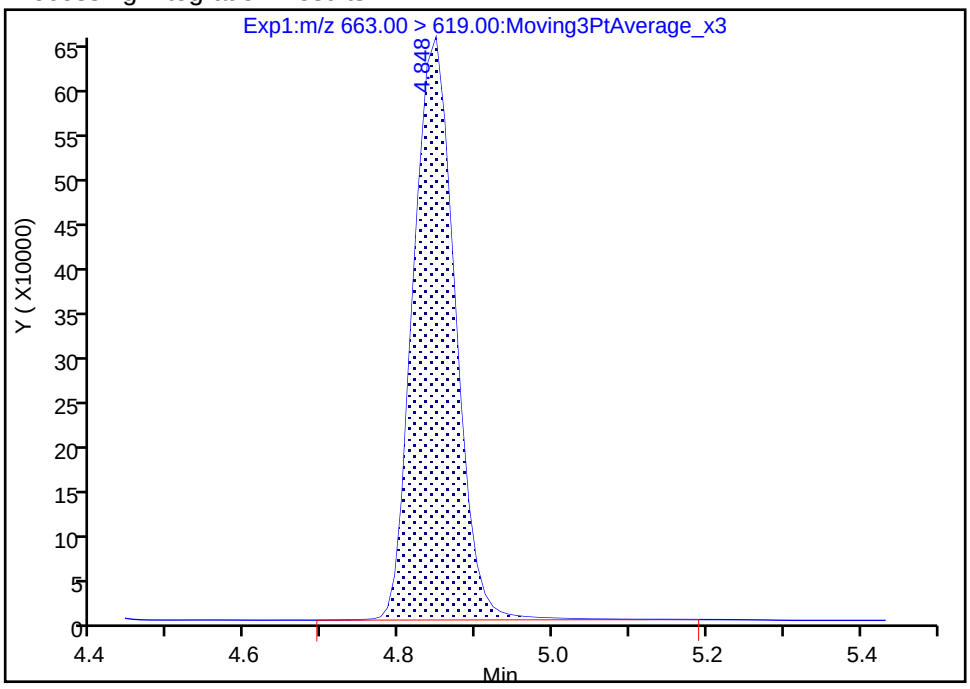
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

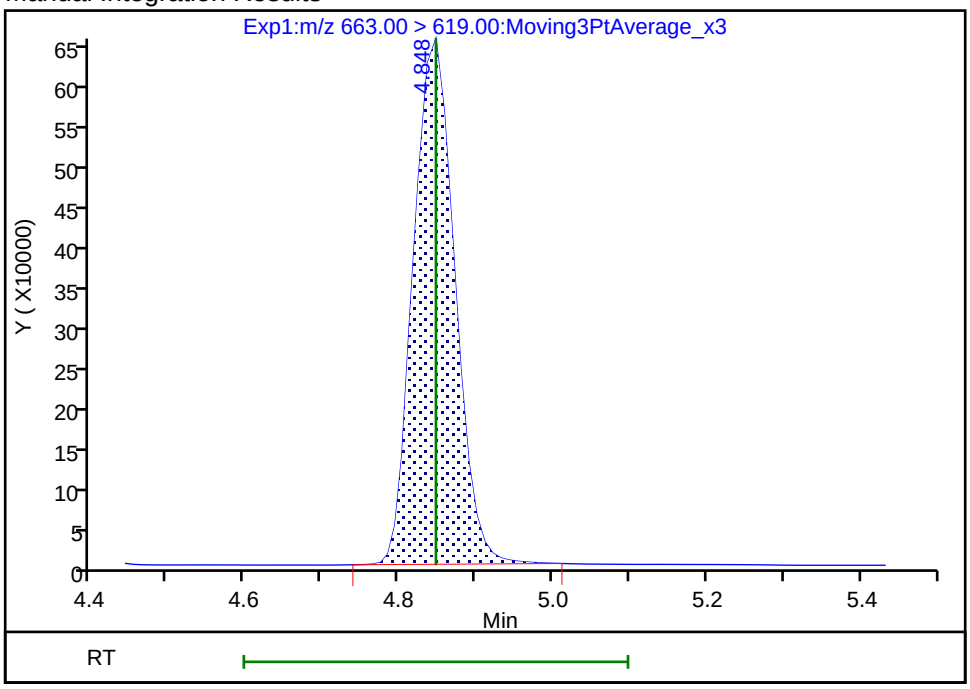
Processing Integration Results

RT: 4.85
Area: 2463846
Amount: 2.559950
Amount Units: ng/ml



Manual Integration Results

RT: 4.85
Area: 2444128
Amount: 2.516280
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:05:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

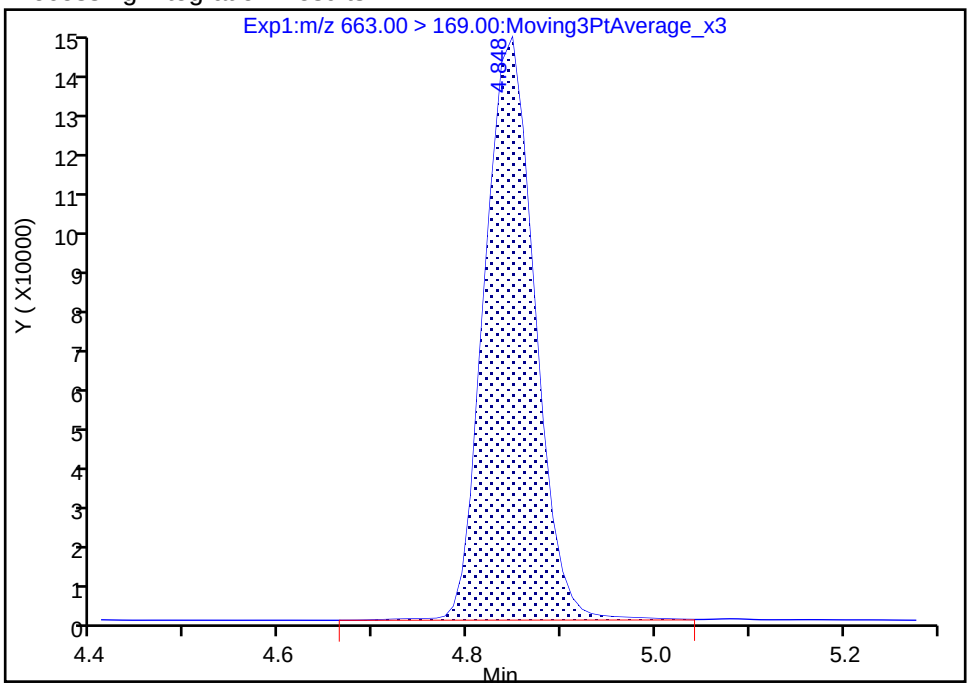
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

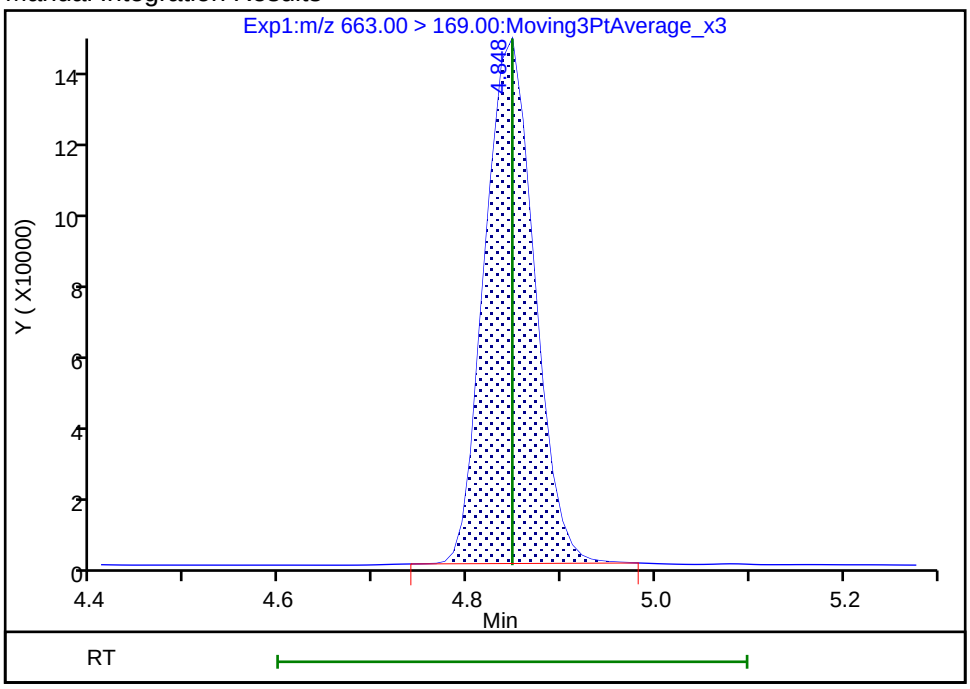
Processing Integration Results

RT: 4.85
Area: 529140
Amount: 2.559950
Amount Units: ng/ml



Manual Integration Results

RT: 4.85
Area: 521520
Amount: 2.516280
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:05:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

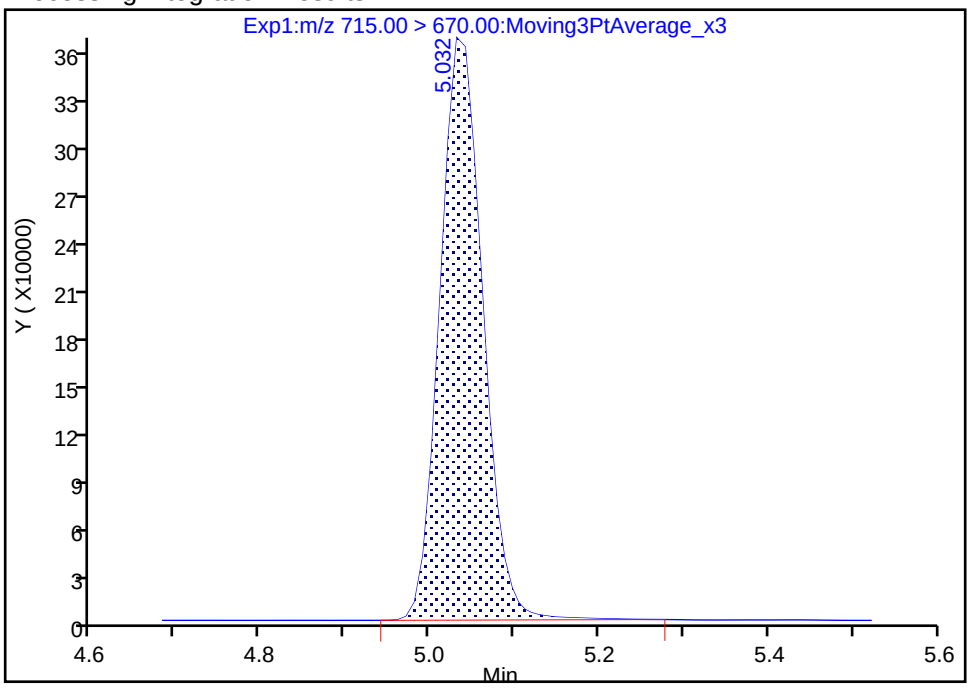
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

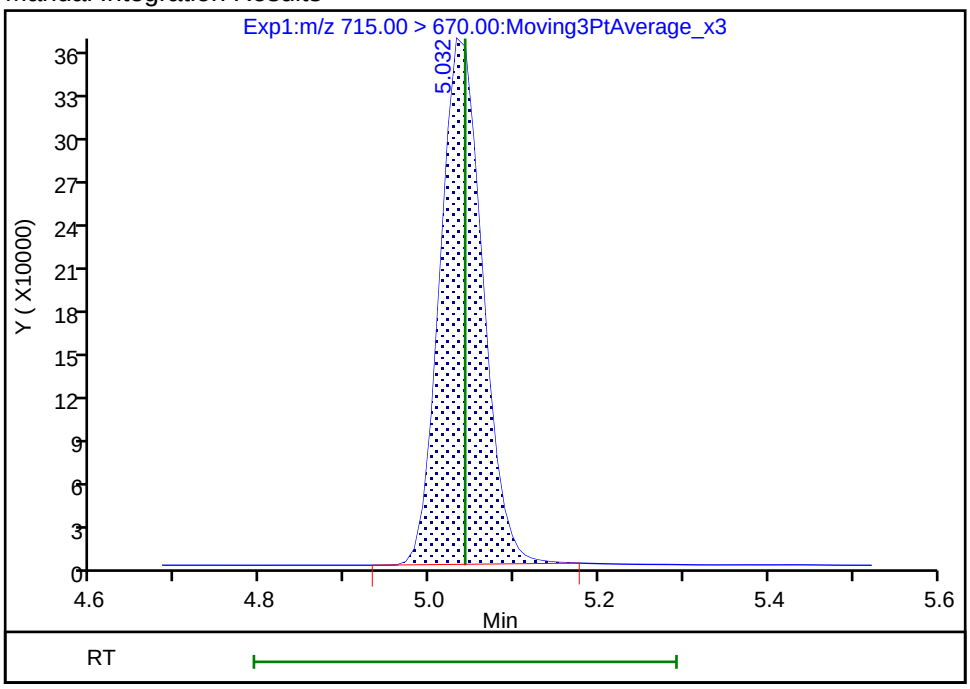
Processing Integration Results

RT: 5.03
Area: 1277540
Amount: 1.354284
Amount Units: ng/ml



Manual Integration Results

RT: 5.03
Area: 1266993
Amount: 1.324904
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:05:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

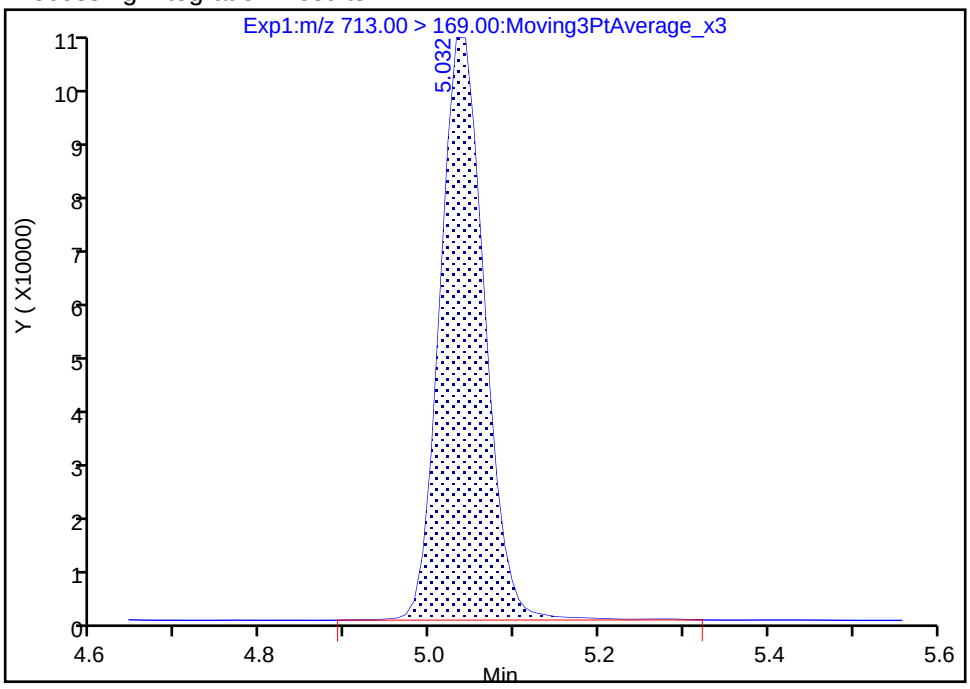
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

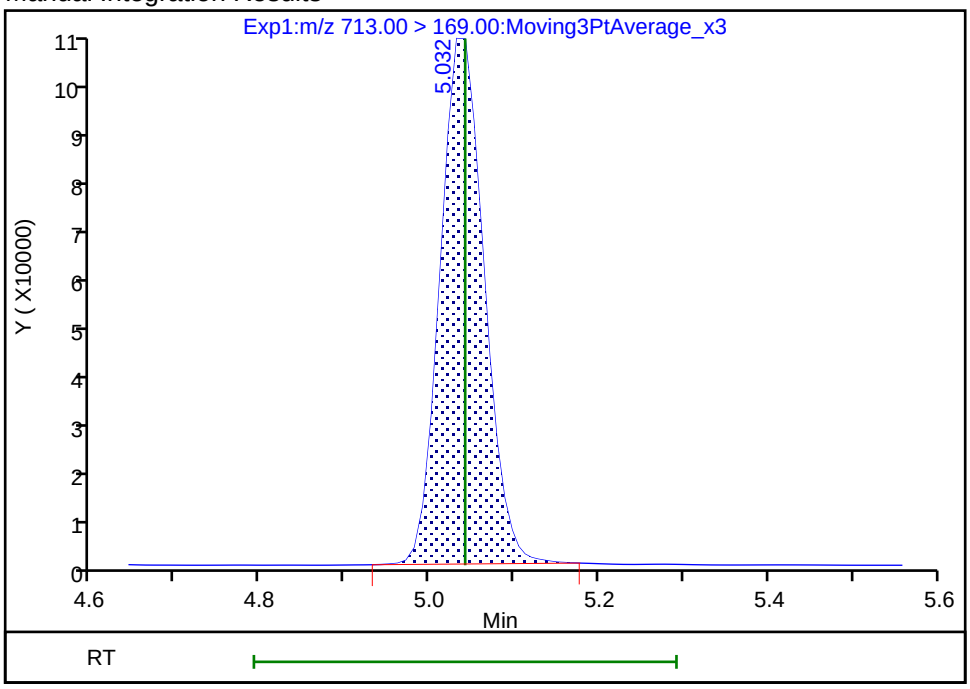
Processing Integration Results

RT: 5.03
Area: 367792
Amount: 2.330200
Amount Units: ng/ml



Manual Integration Results

RT: 5.03
Area: 363547
Amount: 2.321250
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:05:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

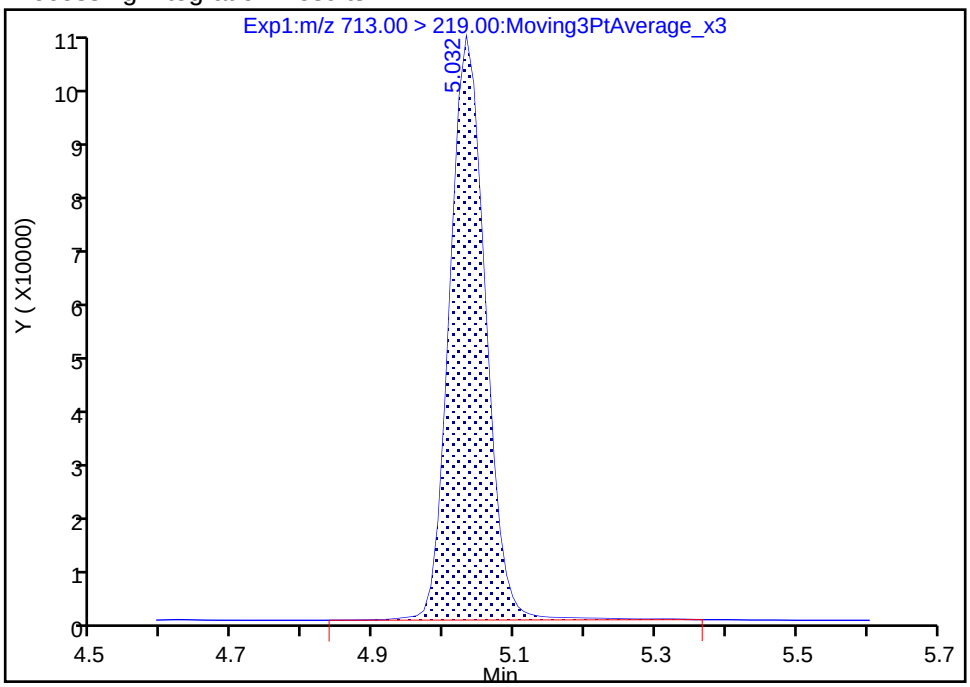
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d				
Injection Date:	05-May-2022 15:46:19	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

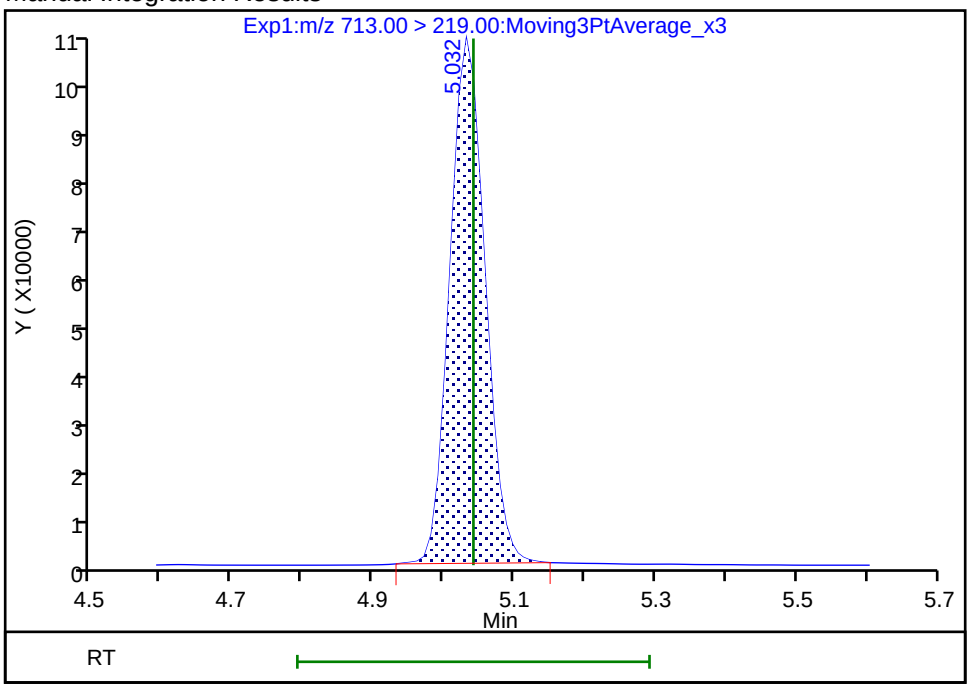
Processing Integration Results

RT: 5.03
Area: 362402
Amount: 2.330200
Amount Units: ng/ml



Manual Integration Results

RT: 5.03
Area: 355541
Amount: 2.321250
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:05:45

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

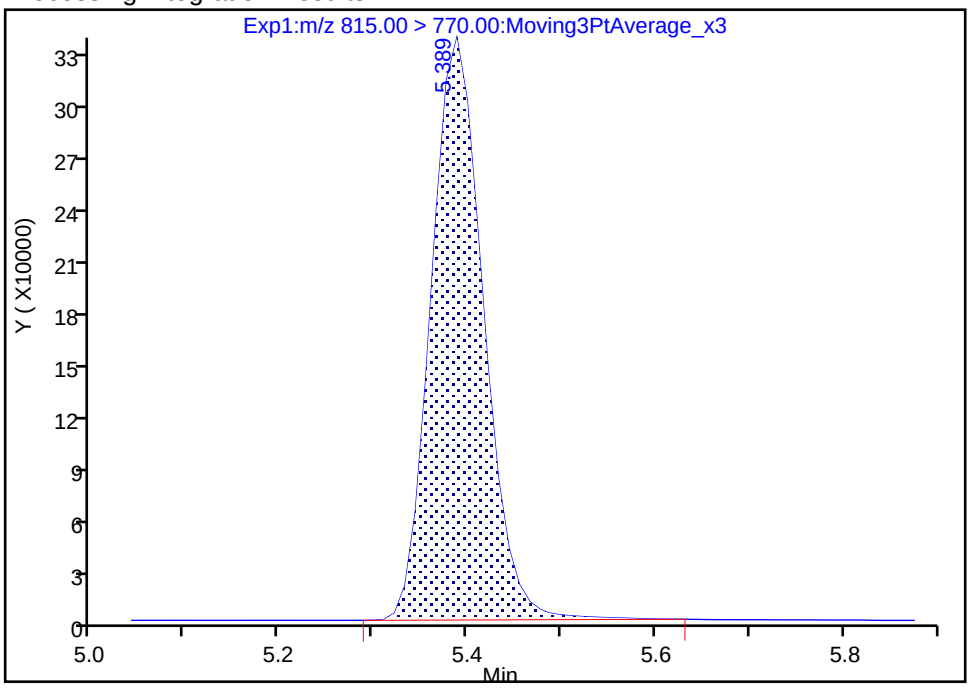
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

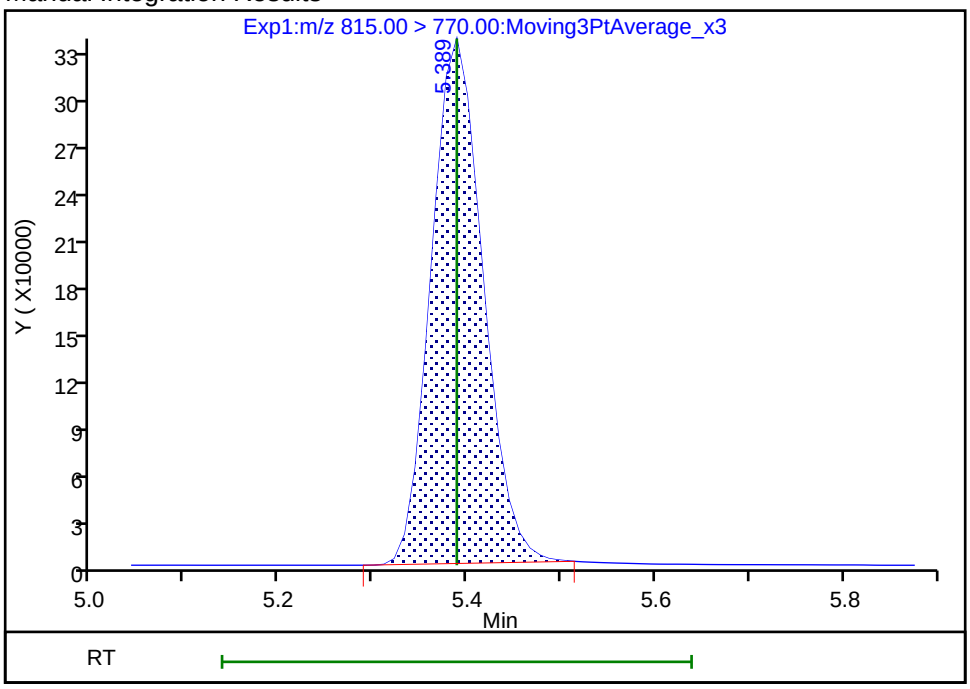
Processing Integration Results

RT: 5.39
Area: 1280756
Amount: 1.290732
Amount Units: ng/ml



Manual Integration Results

RT: 5.39
Area: 1261675
Amount: 1.272800
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:05:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

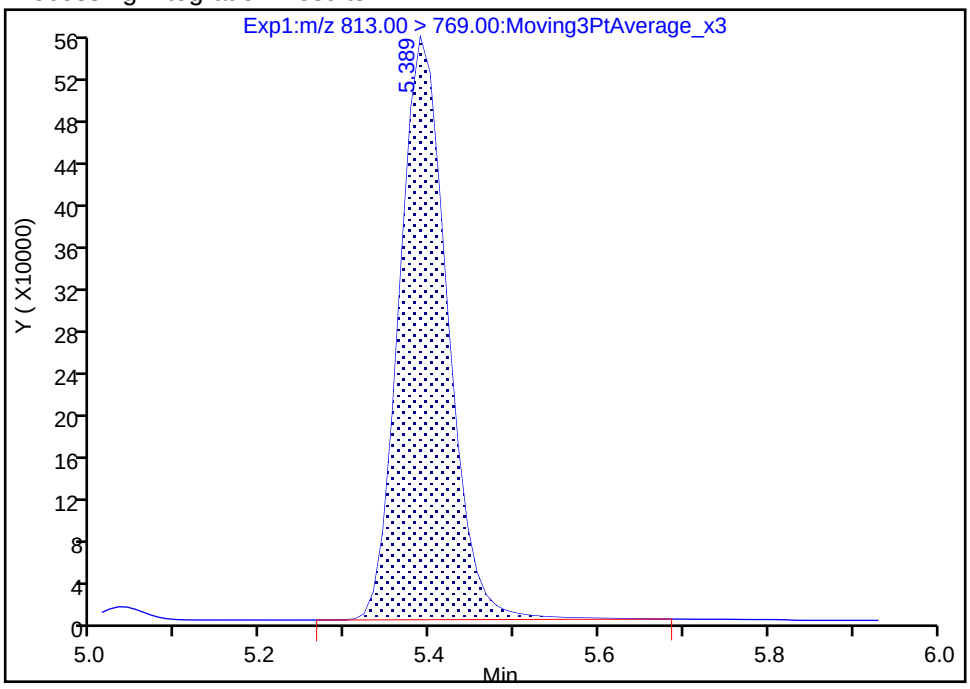
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

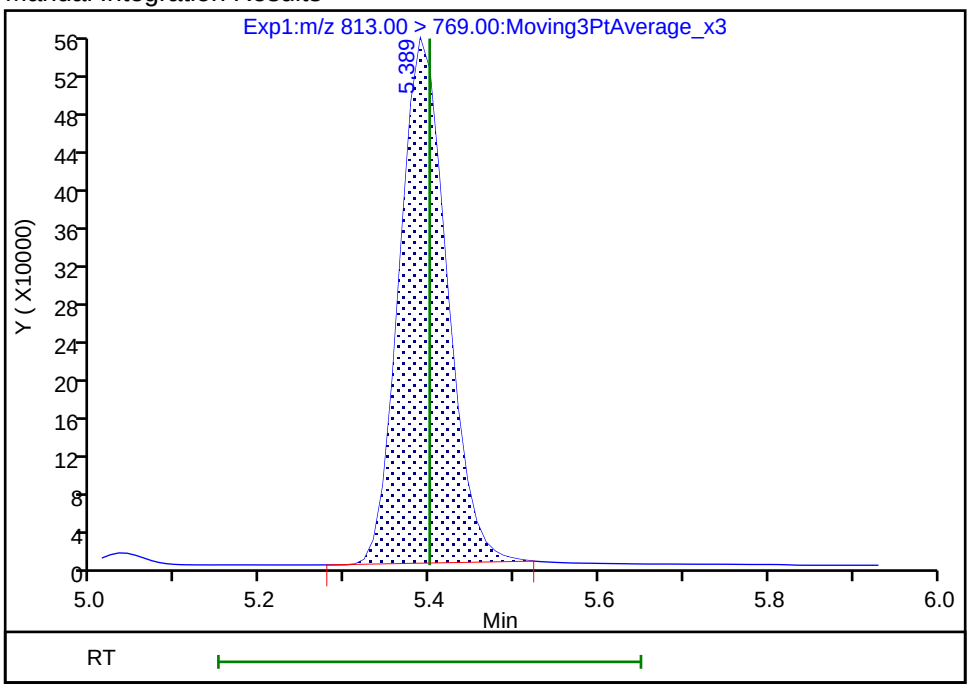
Processing Integration Results

RT: 5.39
Area: 2203194
Amount: 2.417176
Amount Units: ng/ml



Manual Integration Results

RT: 5.39
Area: 2167265
Amount: 2.428381
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:05:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

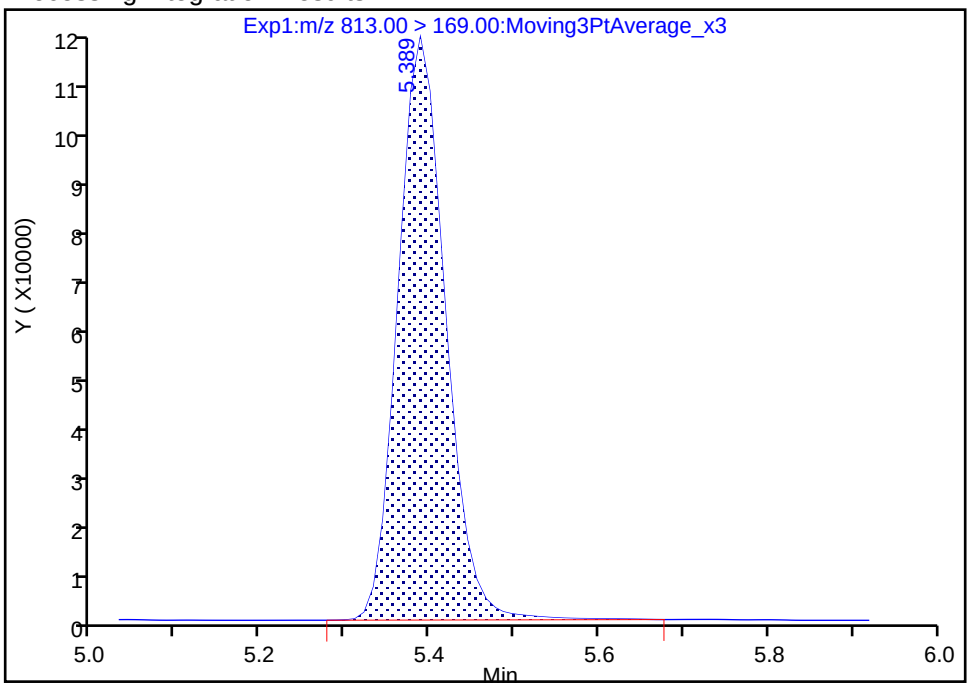
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d				
Injection Date:	05-May-2022 15:46:19	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

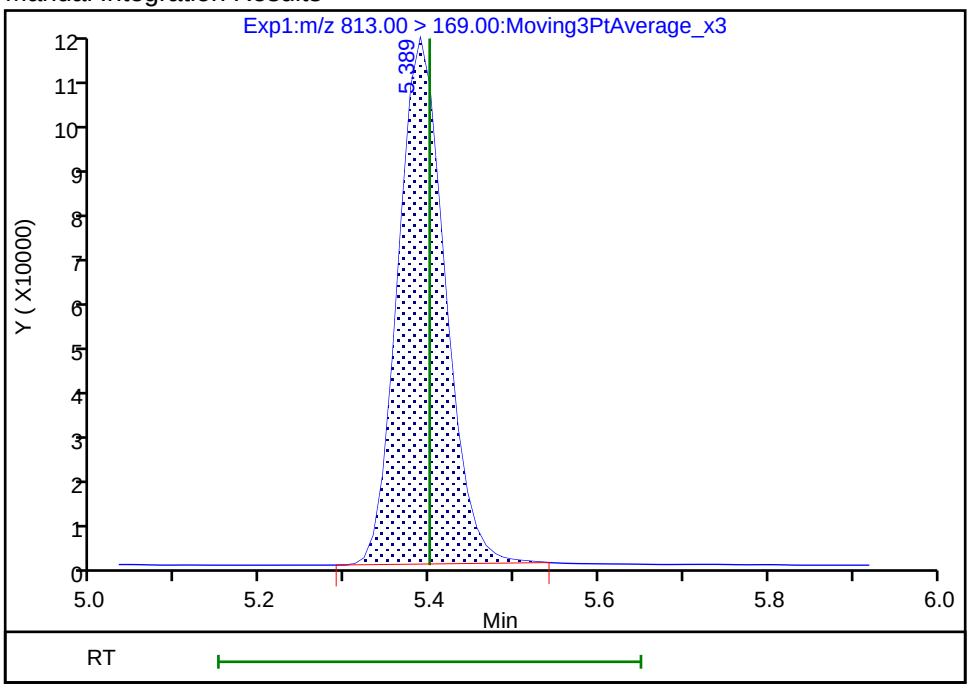
Processing Integration Results

RT: 5.39
Area: 455573
Amount: 2.417176
Amount Units: ng/ml



Manual Integration Results

RT: 5.39
Area: 450419
Amount: 2.428381
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:06:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

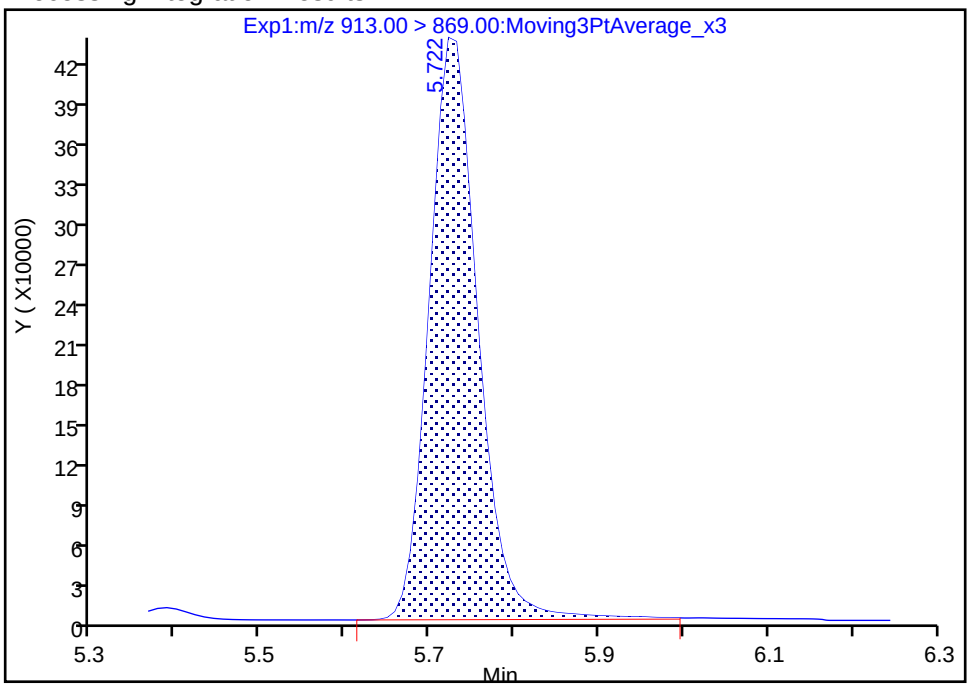
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

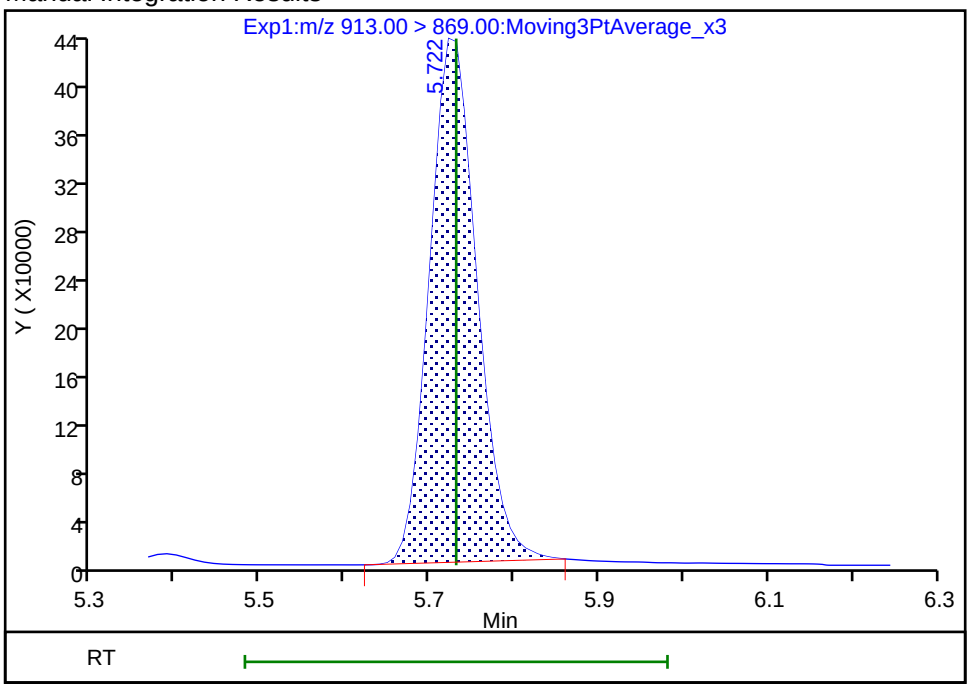
Processing Integration Results

RT: 5.72
Area: 1746688
Amount: 2.430580
Amount Units: ng/ml



Manual Integration Results

RT: 5.72
Area: 1696027
Amount: 2.412078
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:06:06
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

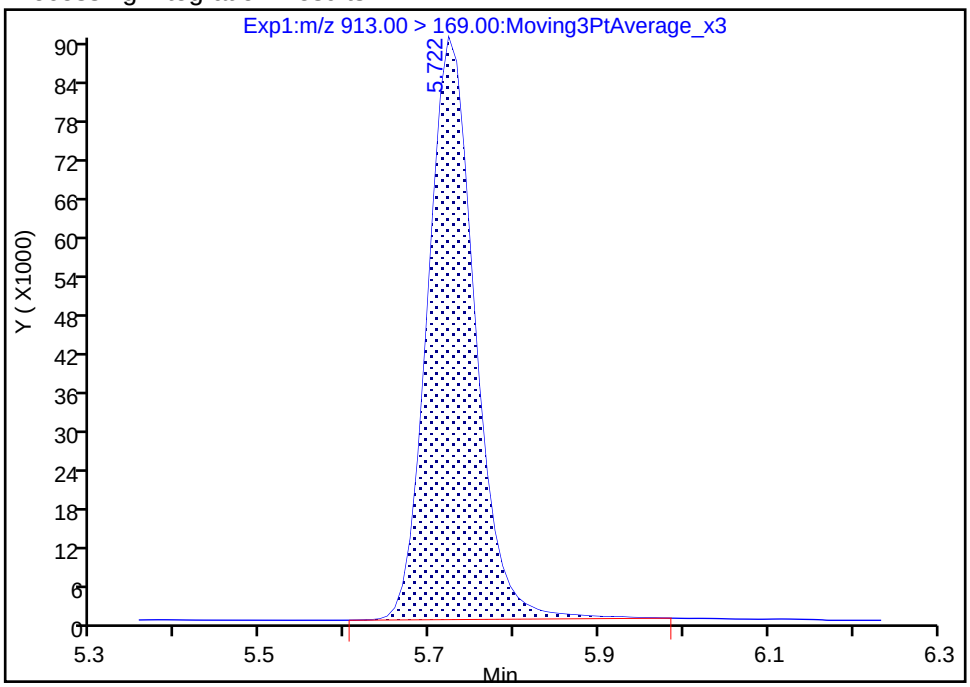
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL09.d
Injection Date: 05-May-2022 15:46:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

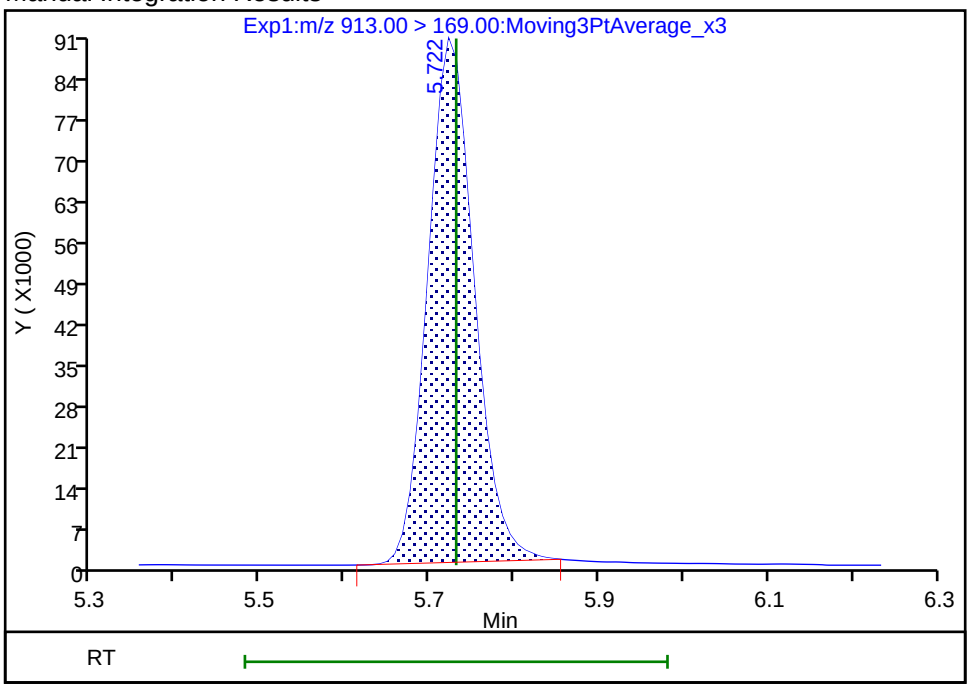
Processing Integration Results

RT: 5.72
Area: 349539
Amount: 2.430580
Amount Units: ng/ml



Manual Integration Results

RT: 5.72
Area: 341462
Amount: 2.412078
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:06:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 05-May-2022 15:54:29 ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 200-0050718-010 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 05-May-2022 16:22:27 Calib Date: 05-May-2022 15:54:29
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1631

First Level Reviewer: deannd Date: 05-May-2022 16:12:08
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.102	2.102	0.0	1.000	12078394	9.50		95.0	2731	M
D 1 13C4 PFBA										M
217.00 > 172.00	2.102	2.102	0.0	0.601	1684322	1.29		103	8398	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.413	2.413	0.0	0.690	1230429	1.23		98.3	3056	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.413	2.413	0.0	1.000	9800820	9.77		97.7	503	M
D 47 13C3 PFBS										
301.90 > 80.00	2.426	2.427	-0.001	0.694	1743238	1.20		103	204130	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.440	2.440	0.0	1.006	14011999	8.57	Target=2.18	97.0	5100	M
298.90 > 99.00	2.440	2.440	0.0	1.006	6539991		2.14(1.09-3.27)	97.0	2453	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.737	2.738	-0.001	1.000	2722524	9.15		97.9	1266	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.737	2.738	-0.001	0.782	138405	1.15		98.7	156	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.774	2.774	0.0	0.793	1271512	1.24		99.3	2744	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.774	2.774	0.0	1.000	10743130	9.78	Target=12.96	97.8	1100	M
313.00 > 119.00	2.774	2.774	0.0	1.000	820965		13.09(6.48-19.44)	97.8	612	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.774	2.774	0.0	0.883	12980438	9.07	Target=3.01	96.7	2596	M
349.00 > 99.00	2.774	2.774	0.0	0.883	4391133		2.96(1.50-4.51)	96.7	2631	M
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.883	2.884	-0.001	0.824	235980	1.35		108	1495	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.883	2.884	-0.001	1.000	1859903	9.03		90.3	2374	M
D 11 18O2 PFHxS										M
403.00 > 84.00	3.143	3.132	0.011	0.898	1370449	1.21		102	1683	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.143	3.132	0.011	1.000	11337777	8.85	Target=3.51	97.3	1707	M
399.00 > 99.00	3.132	3.132	0.0	0.996	3232835		3.51(1.76-5.27)	97.3	1424	M
D 9 13C4 PFHpA										M
367.00 > 322.00	3.143	3.143	0.0	0.898	1389706	1.26		101	1657	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.143	3.143	0.0	1.000	10952447	9.75	Target=3.71	97.5	1450	M
363.00 > 169.00	3.143	3.143	0.0	1.000	2906461		3.77(1.86-5.57)	97.5	1437	M
77 DONA										M
377.00 > 251.00	3.176	3.176	0.0	0.833	24656680	8.26	Target=2.68	87.7	2540	M
377.00 > 85.00	3.176	3.176	0.0	0.833	9615847		2.56(1.34-4.03)	87.7	2397	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.490	3.482	0.008	0.916	10042026	8.95	Target=5.10	94.0	2370	M
449.00 > 99.00	3.481	3.482	-0.001	0.913	2093971		4.80(2.55-7.66)	94.0	1903	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.490	3.482	0.008	1.000	2539801	9.50		100	1063	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.490	3.482	0.008	0.998	206459	1.11		93.8	453	
D 14 13C4 PFOA										M
417.00 > 372.00	3.499	3.491	0.008	1.000	1412485	1.22		97.2	1423	M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.499	3.500	-0.001	1.000	12119765	9.58	Target=2.75	95.8	1224	M
413.00 > 169.00	3.499	3.500	-0.001	1.000	4588745		2.64(1.37-4.12)	95.8	2011	M
* 62 13C2 PFOA										M
415.00 > 370.00	3.499	3.500	-0.001		1543092	1.25			2462	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.811	3.812	-0.001	1.000	8781538	8.81	Target=4.70	94.9	1629	M
499.00 > 99.00	3.811	3.812	-0.001	1.000	1907898		4.60(2.35-7.05)	94.9	1837	M
D 18 13C4 PFOS										M
503.00 > 80.00	3.811	3.812	-0.001	1.089	1115869	1.25		105	1708	M
D 19 13C5 PFNA										M
468.00 > 423.00	3.832	3.834	-0.002	1.095	1584674	1.25		100	2807	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.832	3.834	-0.002	1.000	12096706	9.87	Target=7.93	98.7	1152	M
463.00 > 169.00	3.832	3.834	-0.002	1.000	1597886		7.57(3.97-11.90)	98.7	6127	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.978	3.978	0.0	1.044	14949096	9.07		97.3	4756	M
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.104	4.104	0.0	1.077	6577796	8.71	Target=2.53	90.7	3317	M
549.00 > 99.00	4.104	4.104	0.0	1.077	2738866		2.40(1.26-3.79)	90.7	3153	M
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.138	4.127	0.011	1.003	11622472	9.05	Target=9.72	90.5	2010	M
513.00 > 169.00	4.127	4.127	0.0	1.000	1281368		9.07(4.86-14.57)	90.5	2502	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										M
515.00 > 470.00	4.127	4.138	-0.011	1.180	1507228	1.24		99.2	2212	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.138	4.138	0.0	1.000	2132942	9.08		94.8	1687	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.138	4.138	0.0	1.183	252791	1.14		94.8	704	
D 21 13C8 FOSA										M
506.00 > 78.00	4.195	4.196	-0.001	1.199	1769412	1.32		106	2649	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.195	4.207	-0.012	1.000	13720217	9.55		95.5	2686	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.273	4.273	0.0	1.221	224082	1.39		111	143	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.273	4.273	0.0	1.000	1552281	9.52		95.2	933	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.365	4.376	-0.011	1.145	5373701	9.33	Target=2.47	96.8	2360	M
599.00 > 99.00	4.365	4.376	-0.011	1.145	2084817		2.58(1.23-3.70)	96.8	2681	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.398	4.399	-0.001	1.000	9479607	9.18	Target=9.24	91.8	1911	M
563.00 > 169.00	4.398	4.399	-0.001	1.000	1069932		8.86(4.62-13.87)	91.8	2682	
D 30 13C2 PFUnA										M
565.00 > 520.00	4.398	4.399	-0.001	1.257	1253108	1.28		103	1901	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.410	4.410	0.0	1.260	201832	1.28		102	1046	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.410	4.410	0.0	1.000	1449802	9.57		95.7	1328	M
66 11-Chloroeicosafluoro-3-oxaundec										M
631.00 > 451.00	4.504	4.504	0.0	1.182	19188900	8.42		89.4	2298	M
D 36 13C2 PFDoA										M
615.00 > 570.00	4.633	4.633	0.0	1.324	1373650	1.32		105	1706	M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.633	4.633	0.0	1.000	10395977	9.17	Target=7.29	91.7	1083	M
613.00 > 169.00	4.633	4.633	0.0	1.000	1522230		6.83(3.64-10.93)	91.7	1926	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.654	4.653	0.001	1.125	1208149	10.3		107	1681	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.813	4.812	0.001	1.263	2367101	9.04	Target=0.54	93.4	1629	M
699.00 > 99.00	4.813	4.812	0.001	1.263	4404119		0.54(0.27-0.81)	93.4	2111	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.848	4.848	0.0	1.046	8948073	9.27	Target=4.74	92.7	1009	M
663.00 > 169.00	4.848	4.848	0.0	1.046	1950920		4.59(2.37-7.10)	92.7	1755	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.042	5.042	0.0	1.000	1357469	9.94	Target=0.99	99.4	2269	M
713.00 > 219.00	5.032	5.042	-0.010	0.998	1345315		1.01(0.49-1.48)	99.4	1386	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.042	5.042	0.0	1.441	1105099	1.30		104	1821	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.389	5.388	0.001	1.540	1129598	1.28		102	1352	M
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.400	5.400	0.0	1.002	7951047	10.0	Target=4.87	100	694	M
813.00 > 169.00	5.389	5.400	-0.011	1.000	1670210		4.76(2.43-7.30)	100	1264	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.731	5.731	0.0	1.064	6103858	9.70	Target=4.95	97.0	394	M
913.00 > 169.00	5.731	5.731	0.0	1.064	1174219		5.20(2.47-7.42)	97.0	358	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

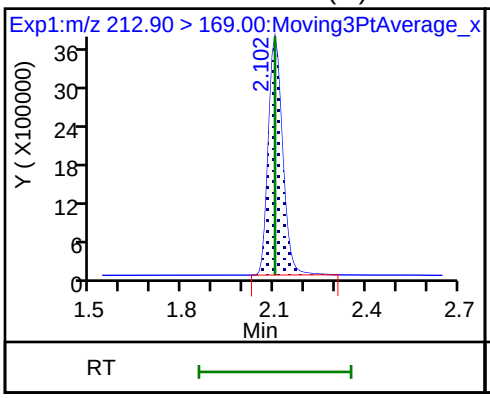
PFAS32NCIC6_00010 Amount Added: 100.00 Units: uL

Report Date: 05-May-2022 16:22:28 Chrom Revision: 2.3 02-May-2022 18:31:28

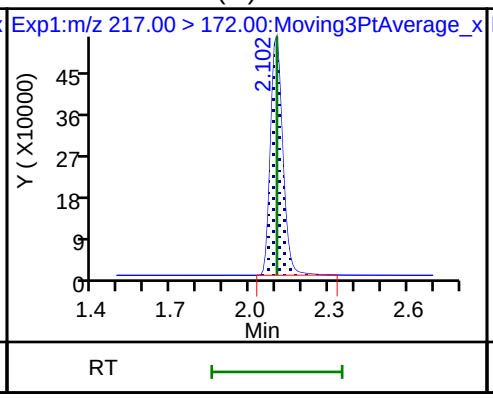
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL

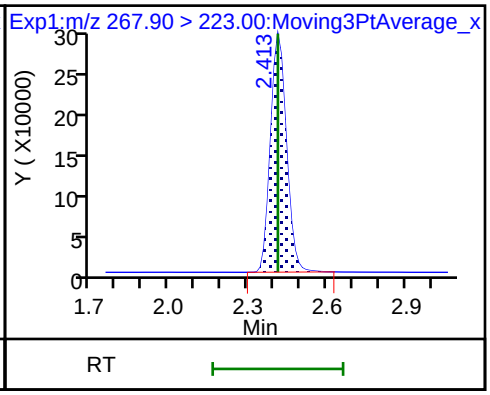
2 Perfluorobutanoic acid (M)



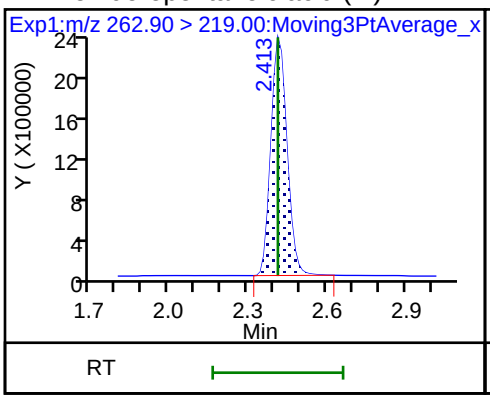
D 1 13C4 PFBA (M)



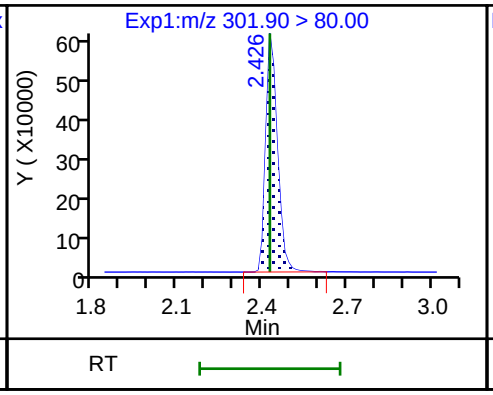
D 3 13C5 PFPeA



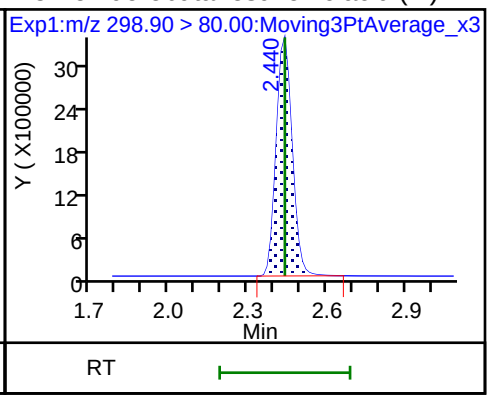
4 Perfluoropentanoic acid (M)



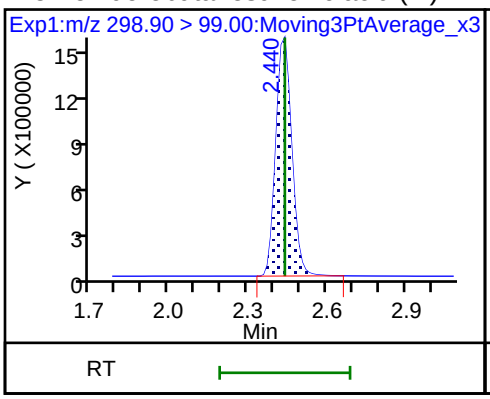
D 47 13C3 PFBS



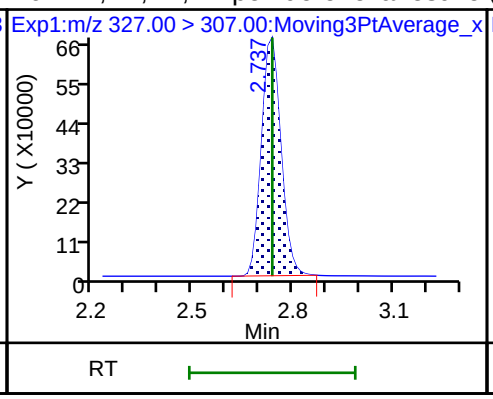
5 Perfluorobutanesulfonic acid (M)



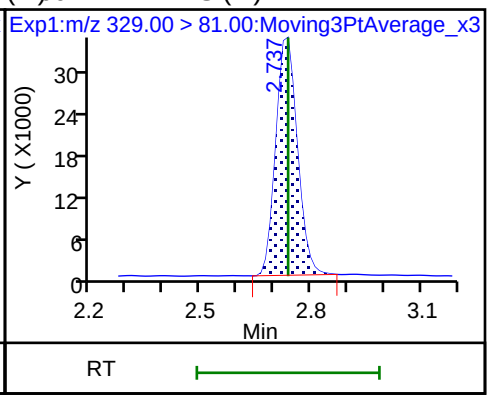
5 Perfluorobutanesulfonic acid (M)



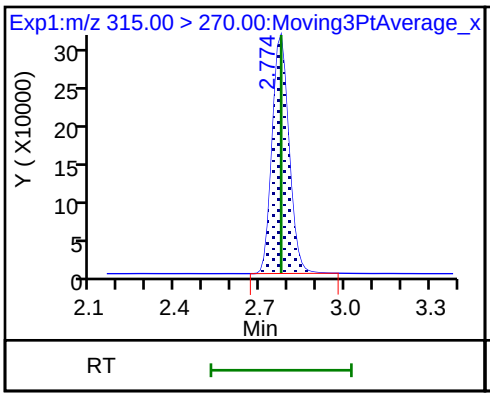
61 1H,1H,2H,2H-perfluorohexanesulfo (M)



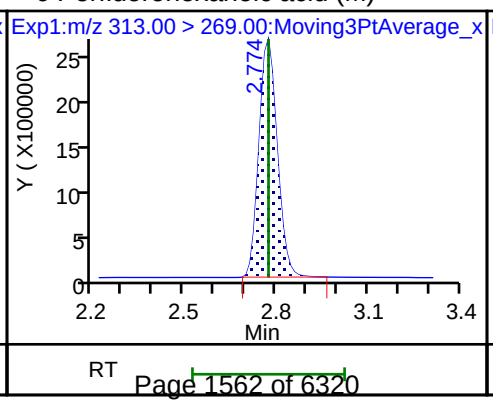
60 M2-4:2 FTS (M)



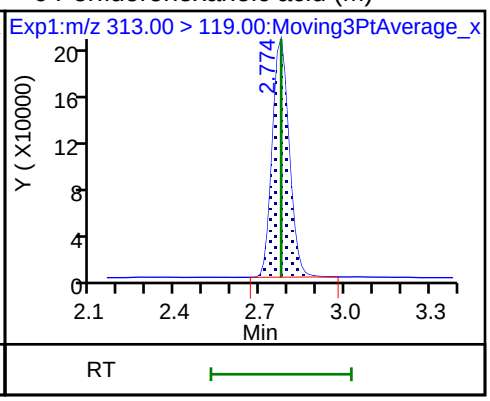
D 7 13C2 PFHxA



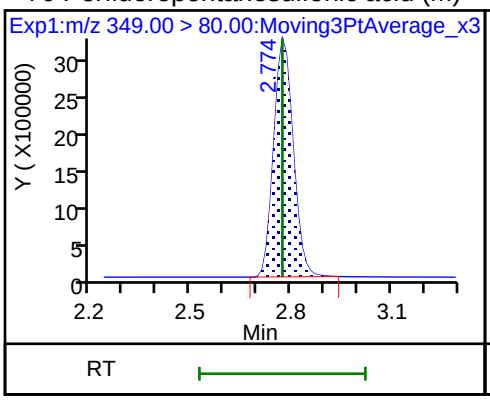
6 Perfluorohexanoic acid (M)



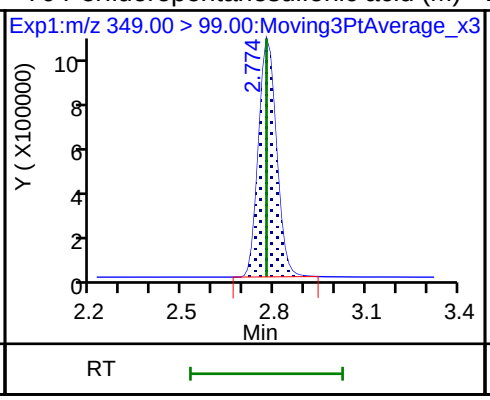
6 Perfluorohexanoic acid (M)



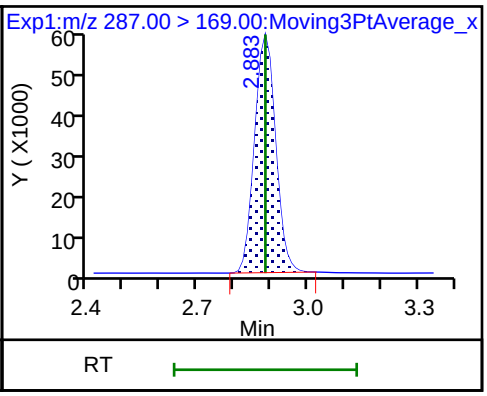
70 Perfluoropentanesulfonic acid (M)



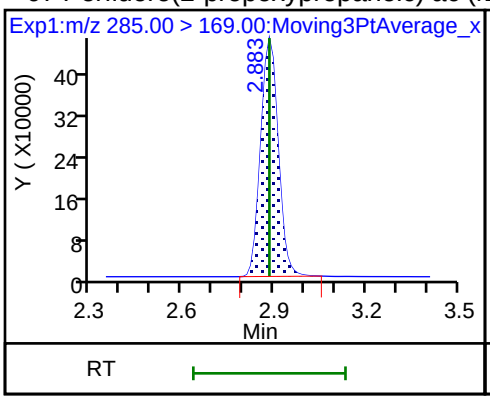
70 Perfluoropentanesulfonic acid (M)



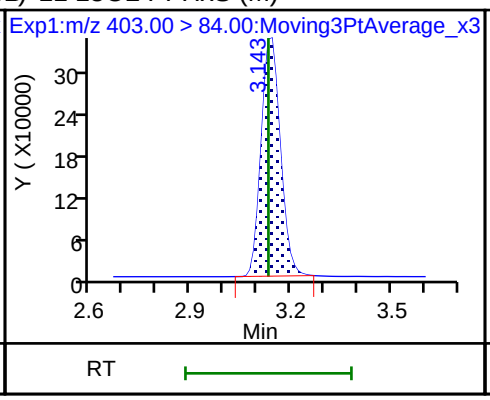
D 64 13C3 HFPO-DA



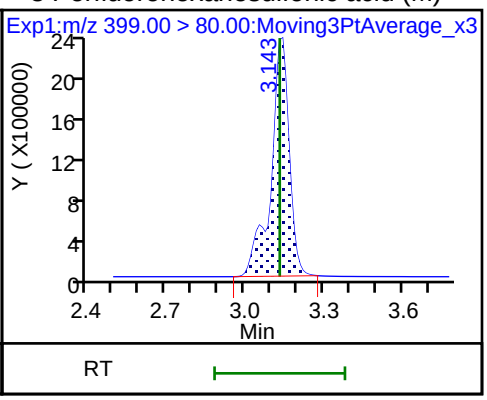
67 Perfluoro(2-propoxypropanoic) ac (M)



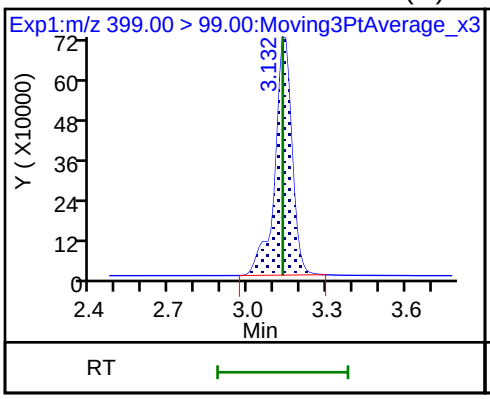
D 11 18O2 PFHxS (M)



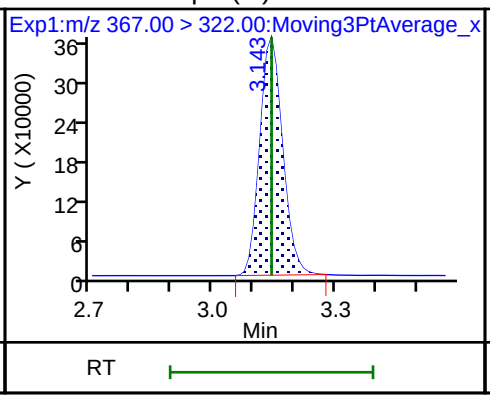
8 Perfluorohexanesulfonic acid (M)



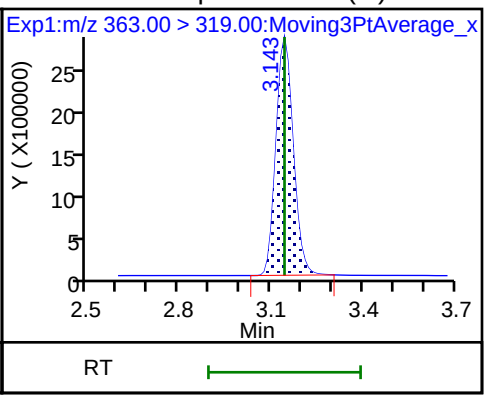
8 Perfluorohexanesulfonic acid (M)



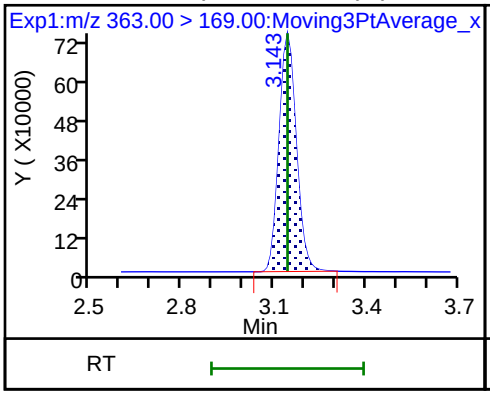
D 9 13C4 PFHpA (M)



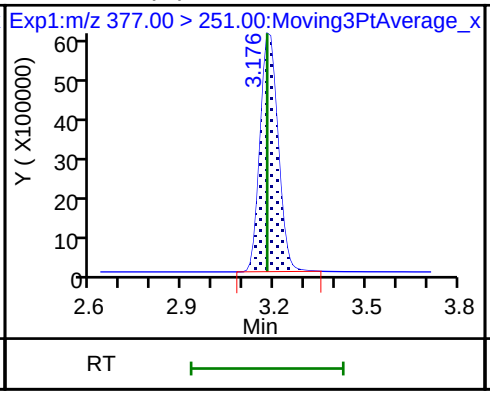
10 Perfluoroheptanoic acid (M)



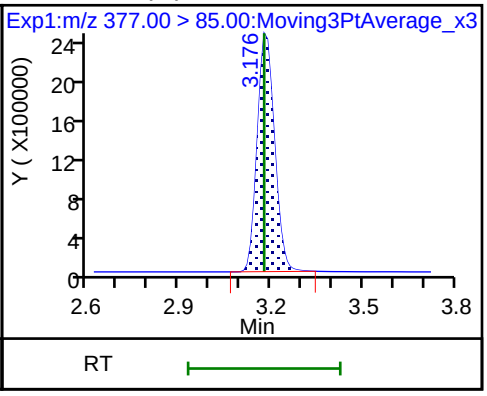
10 Perfluoroheptanoic acid (M)



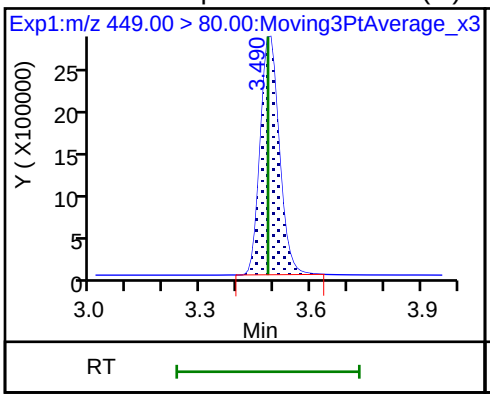
77 DONA (M)



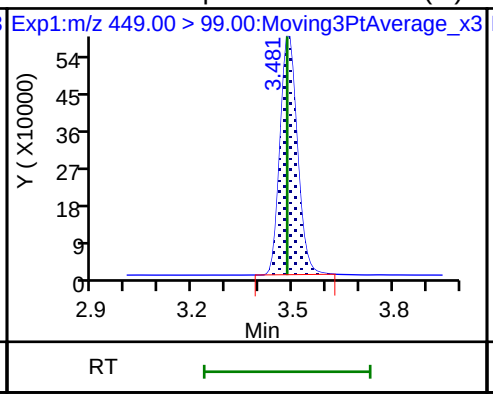
77 DONA (M)



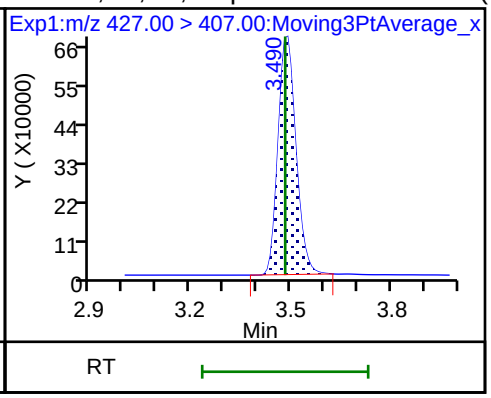
16 Perfluoroheptanesulfonic acid (M)



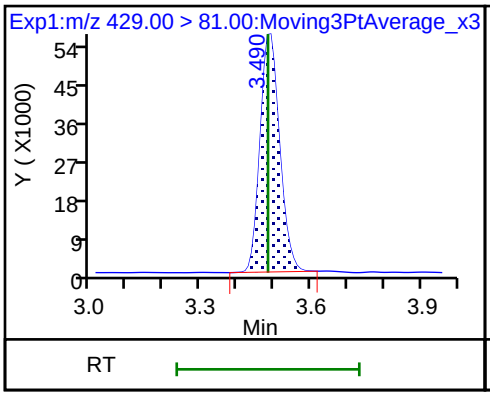
16 Perfluoroheptanesulfonic acid (M)



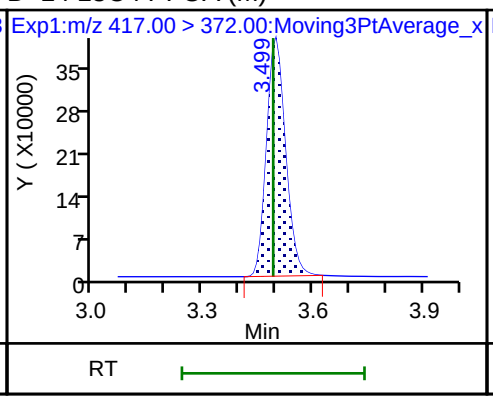
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



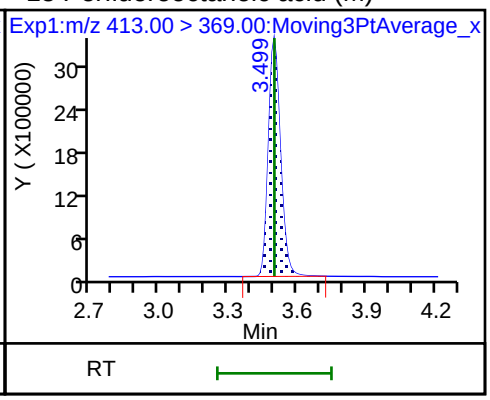
D 12 M2-6:2 FTS



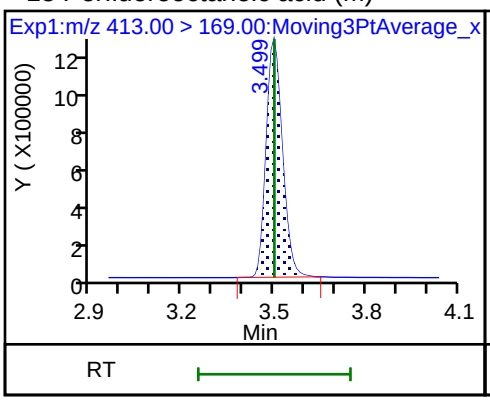
D 14 13C4 PFOA (M)



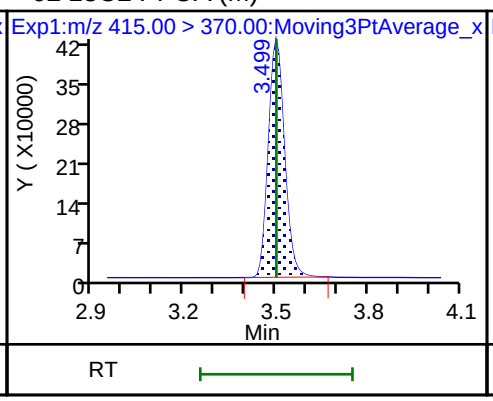
15 Perfluorooctanoic acid (M)



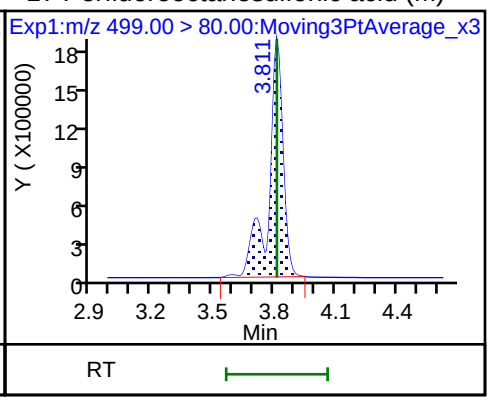
15 Perfluorooctanoic acid (M)



* 62 13C2 PFOA (M)



17 Perfluorooctanesulfonic acid (M)



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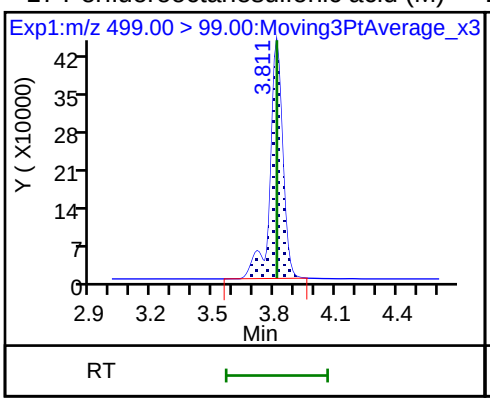
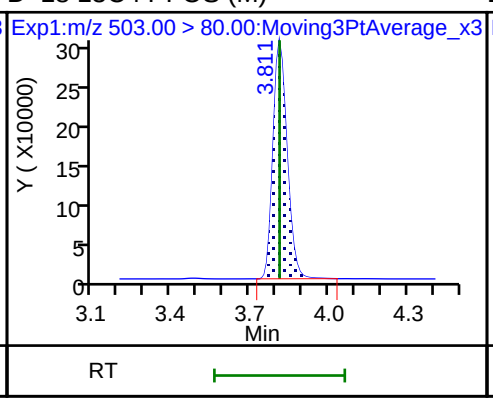
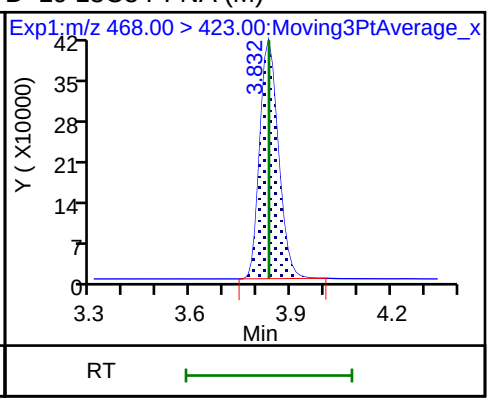


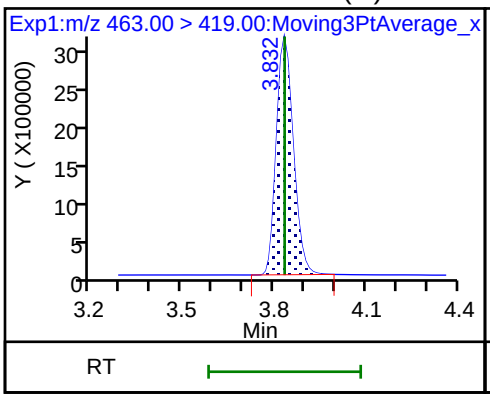
D 18 13C4 PFOS (M)



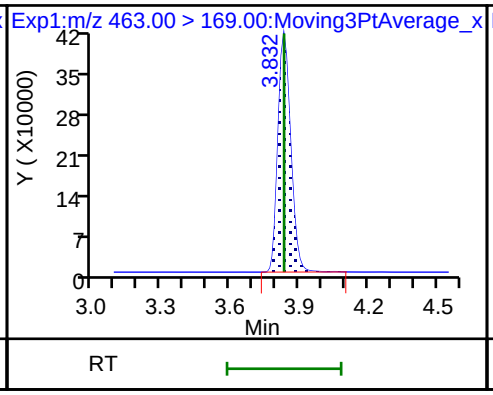
D 19 13C5 PFNA (M)



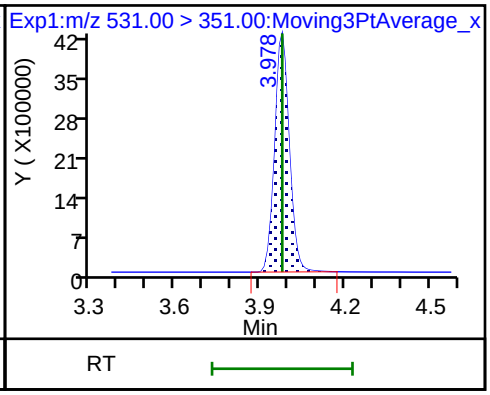
20 Perfluorononanoic acid (M)



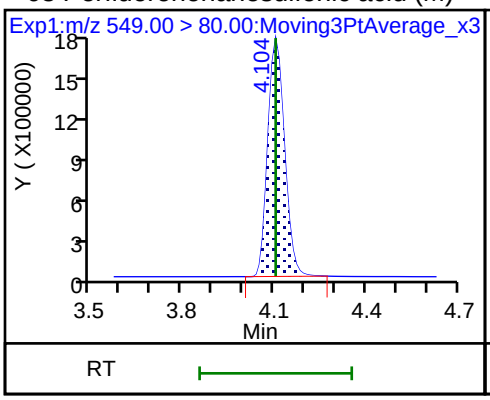
20 Perfluorononanoic acid



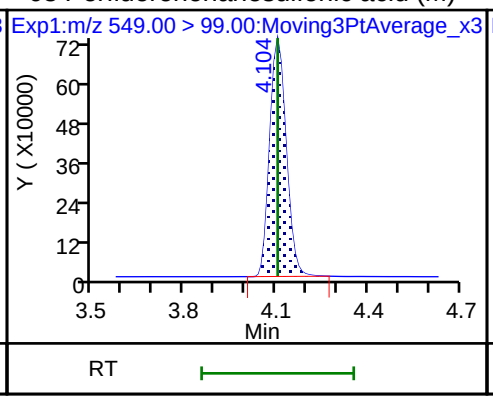
69 9-Chlorohexadecafluoro-3-oxanona (M)



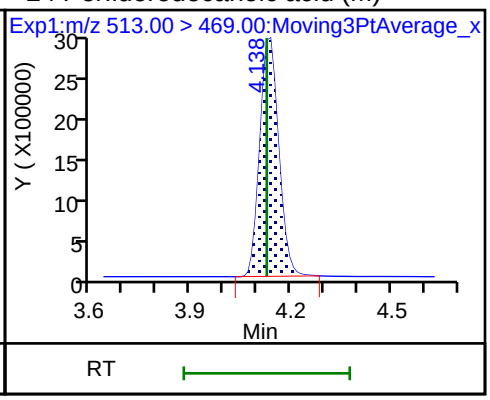
68 Perfluorononanesulfonic acid (M)



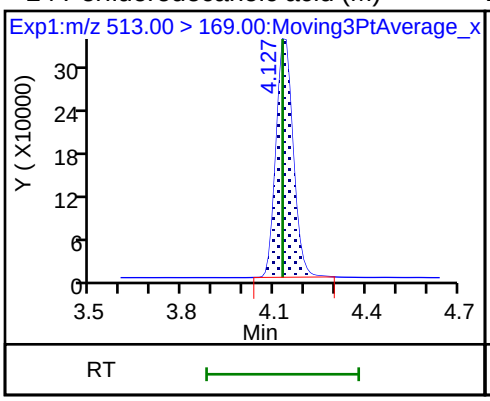
68 Perfluorononanesulfonic acid (M)



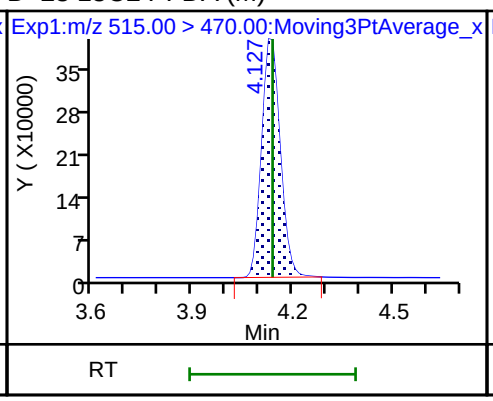
24 Perfluorodecanoic acid (M)



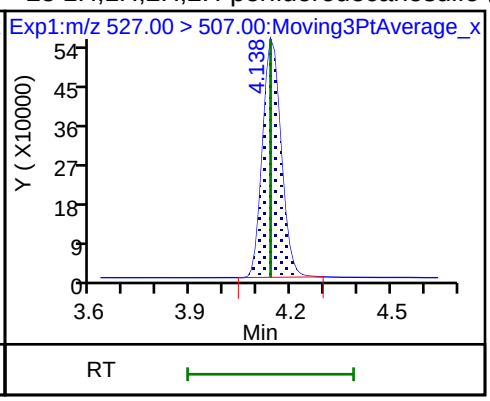
24 Perfluorodecanoic acid (M)



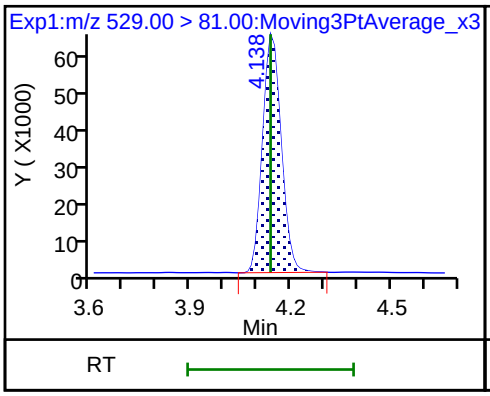
D 23 13C2 PFDA (M)



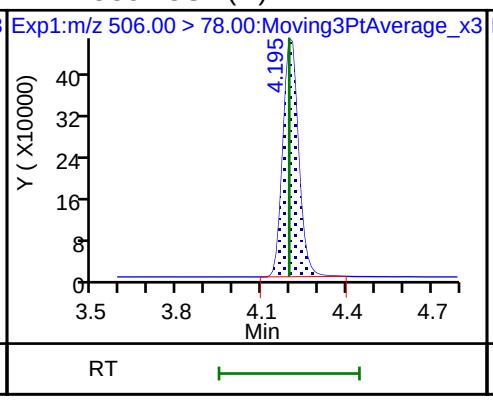
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



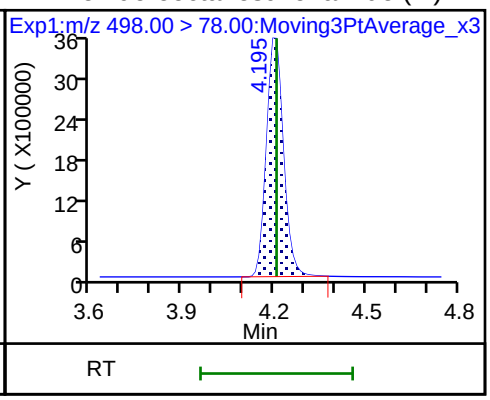
D 26 M2-8:2 FTS



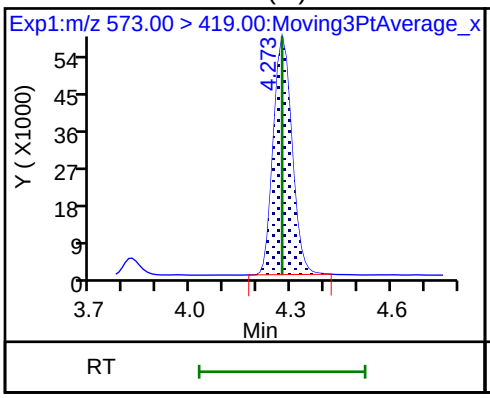
D 21 13C8 FOSA (M)



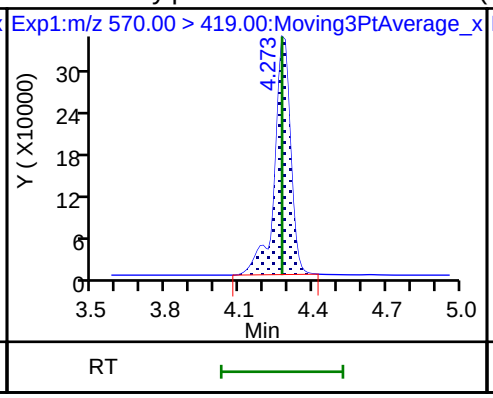
22 Perfluorooctanesulfonamide (M)



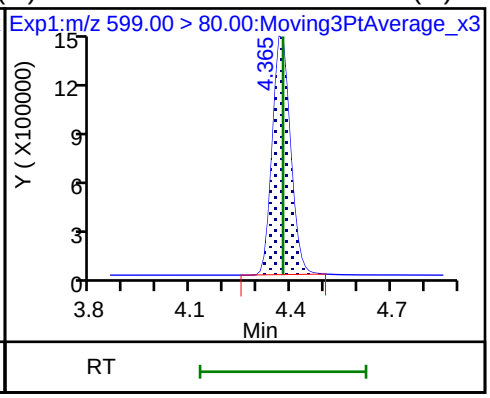
D 27 d3-NMeFOSAA (M)



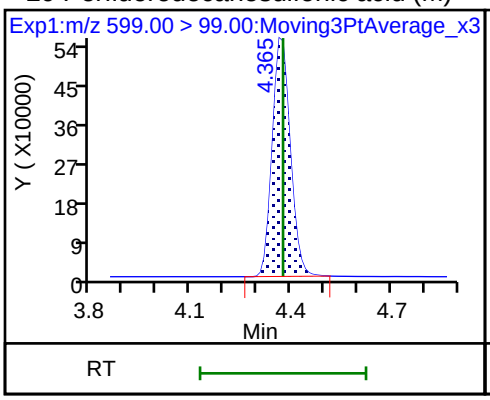
28 N-methylperfluorooctanesulfonami (M)



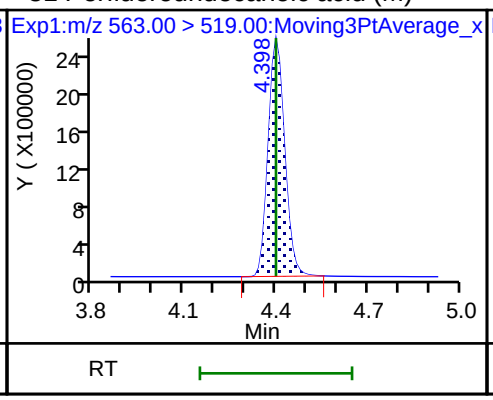
29 Perfluorodecanesulfonic acid (M)



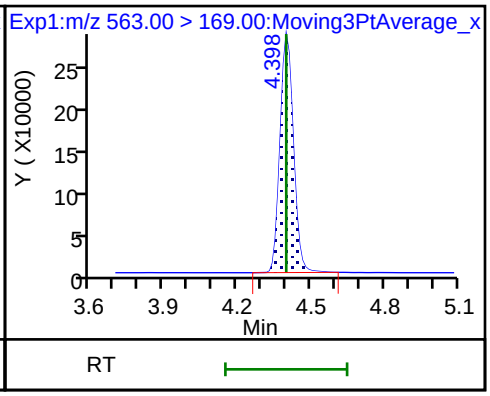
29 Perfluorodecanesulfonic acid (M)



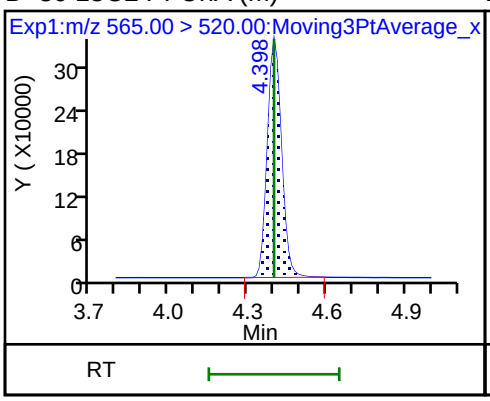
31 Perfluoroundecanoic acid (M)



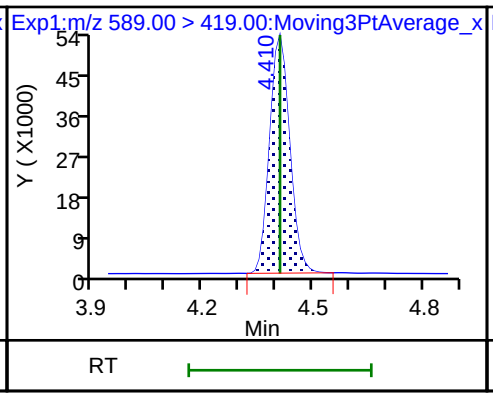
31 Perfluoroundecanoic acid



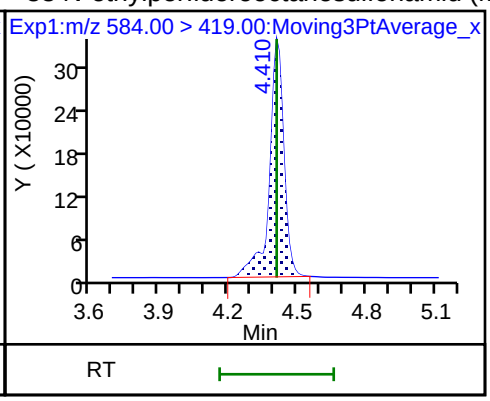
D 30 13C2 PFUnA (M)



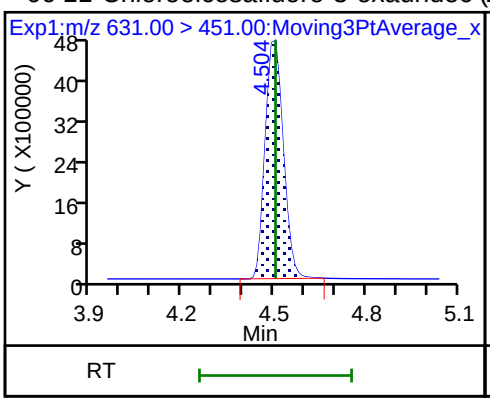
D 32 d5-NEtFOSAA



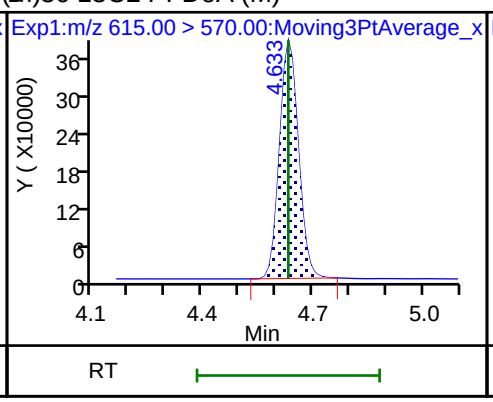
33 N-ethylperfluorooctanesulfonamid (M)



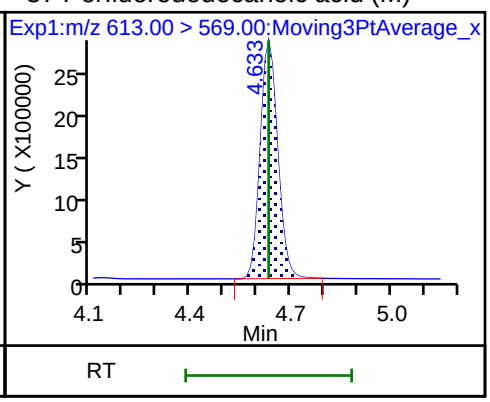
66 11-Chloroeicosafluoro-3-oxaundec (M)



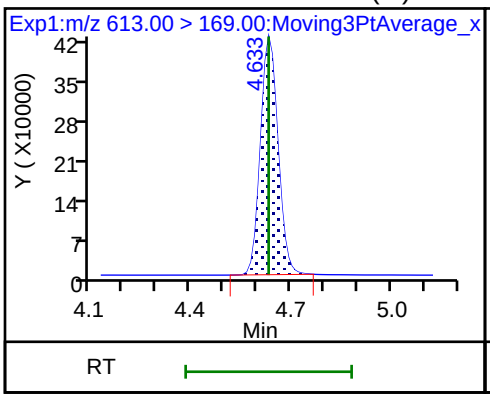
D 36 13C2 PFDoA (M)



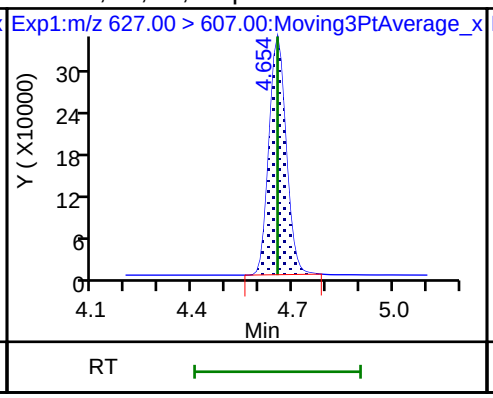
37 Perfluorododecanoic acid (M)



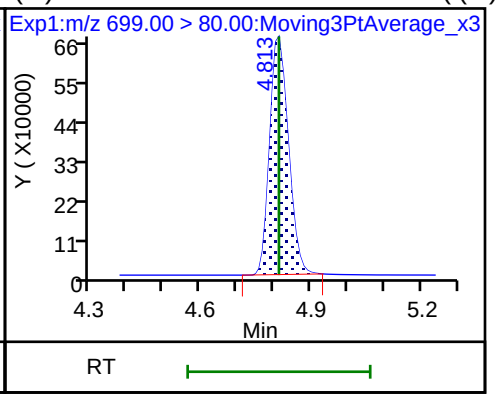
37 Perfluorododecanoic acid (M)



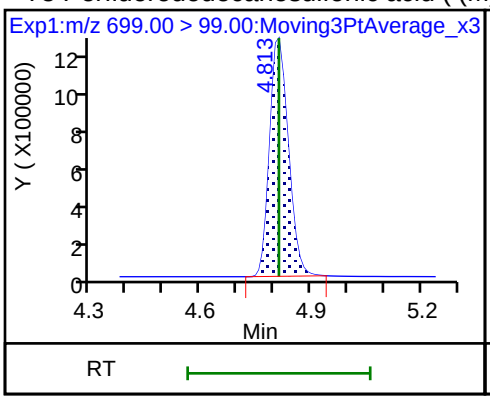
74 1H,1H,2H,2H-perfluorododecanesul (M)



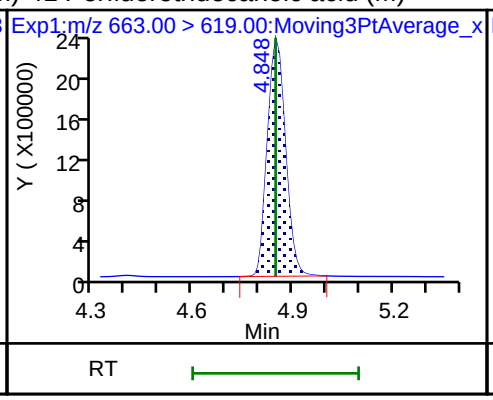
75 Perfluorododecanesulfonic acid ((M)



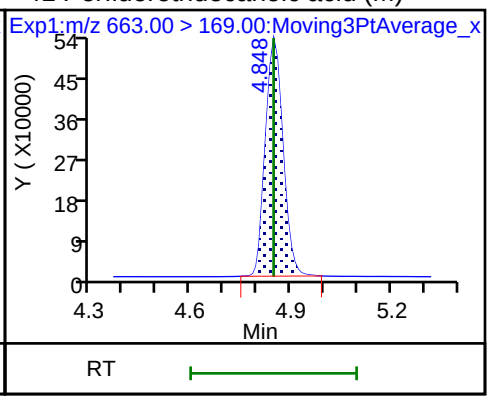
75 Perfluorododecanesulfonic acid ((M)



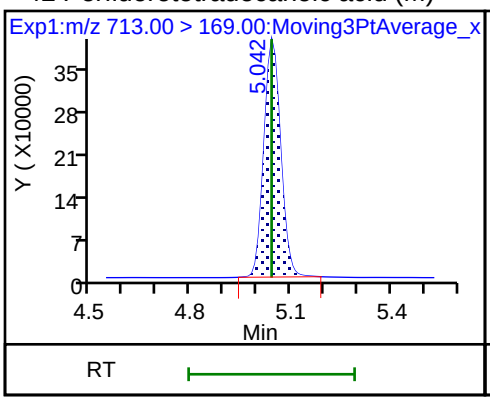
41 Perfluorotridecanoic acid (M)



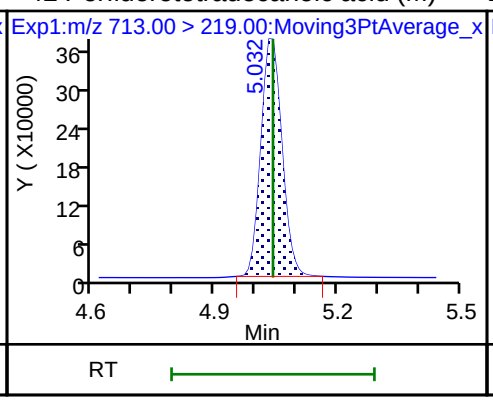
41 Perfluorotridecanoic acid (M)



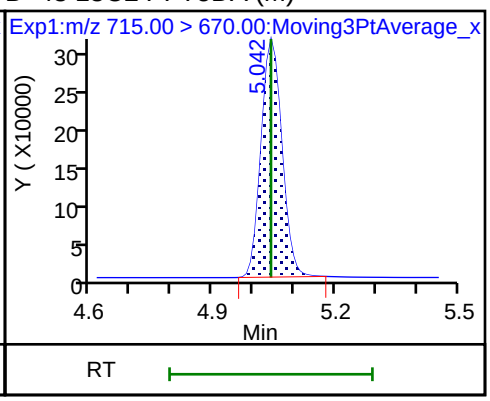
42 Perfluorotetradecanoic acid (M)



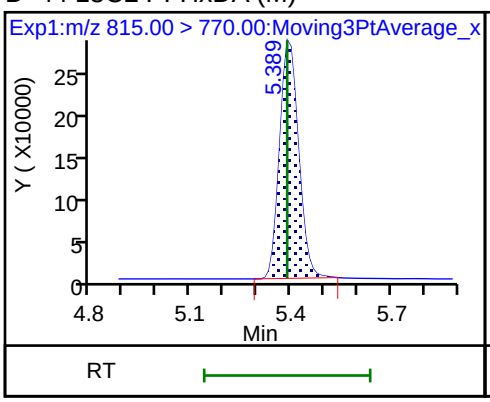
42 Perfluorotetradecanoic acid (M)



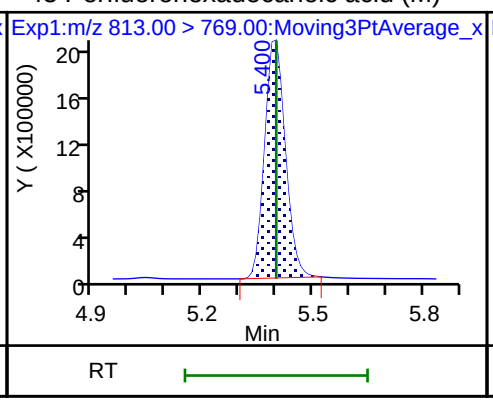
D 43 13C2 PFTeDA (M)



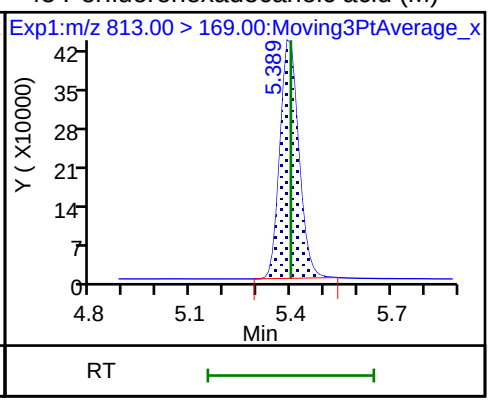
D 44 13C2 PFHxDA (M)



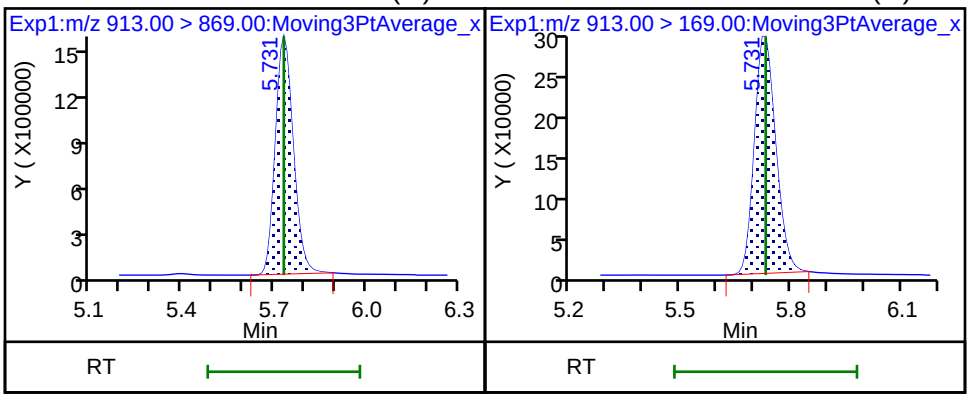
45 Perfluorohexadecanoic acid (M)



45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M) 46 Perfluorooctadecanoic acid (M)



Manual Integration/User Assign Peak Report

Eurofins Burlington

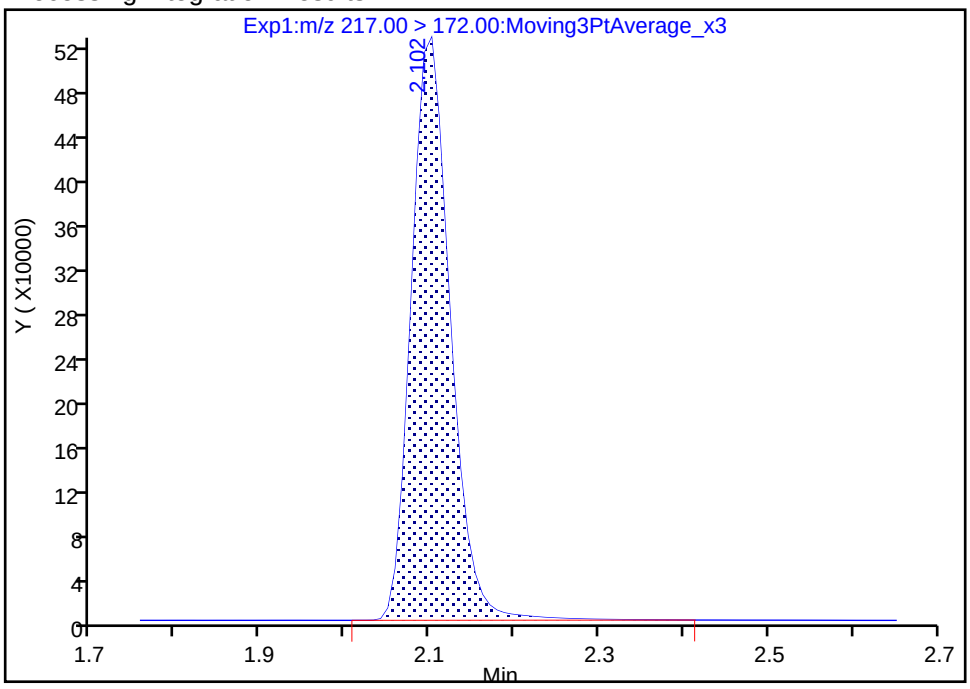
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

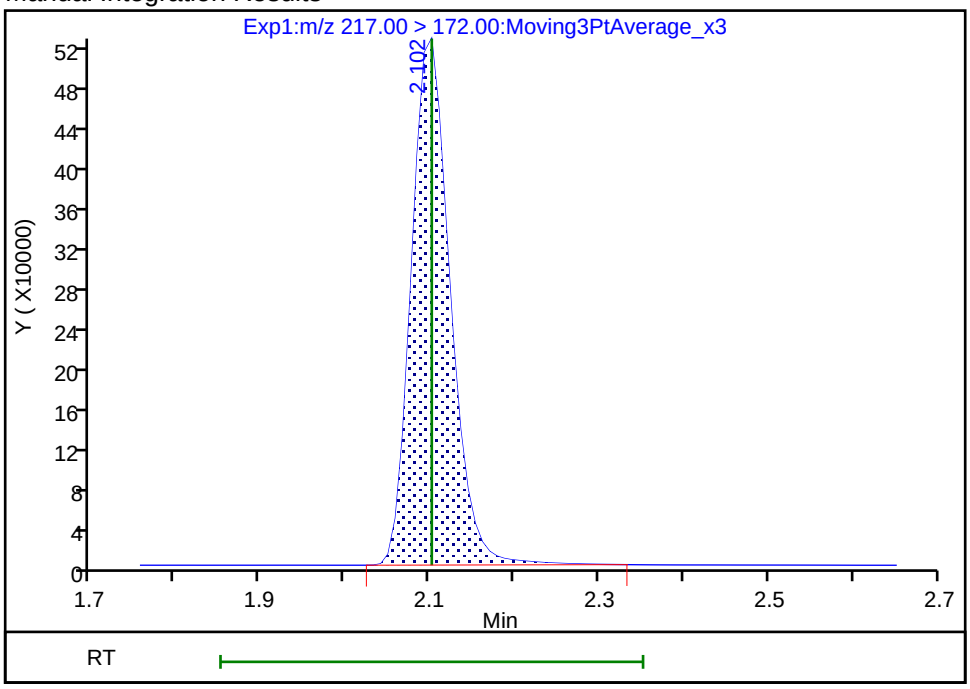
Processing Integration Results

RT: 2.10
Area: 1688386
Amount: 1.281695
Amount Units: ng/ml



Manual Integration Results

RT: 2.10
Area: 1684322
Amount: 1.285278
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:06:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

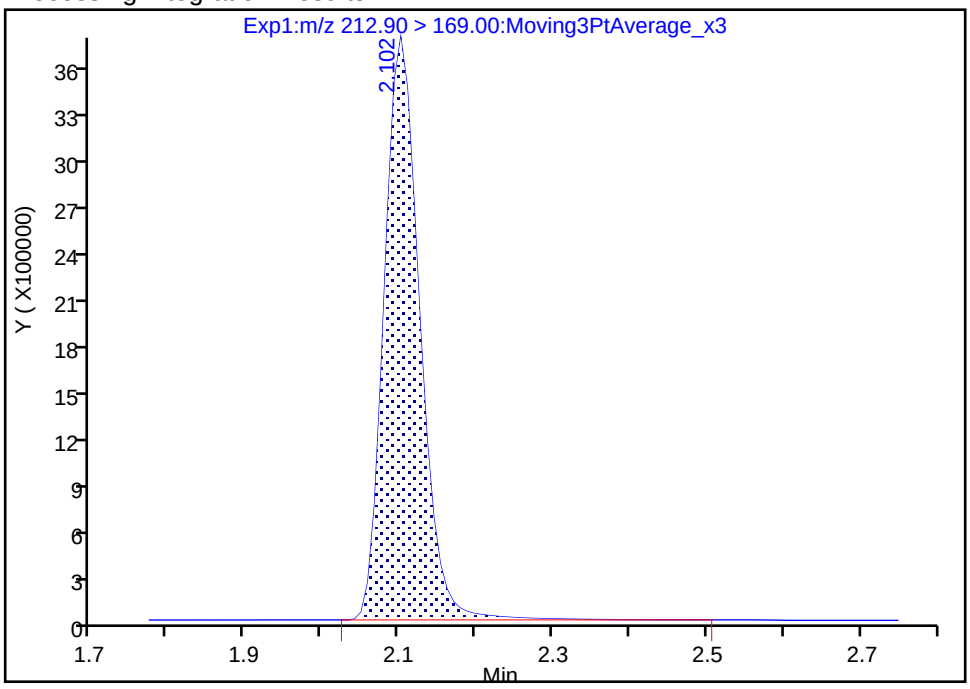
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

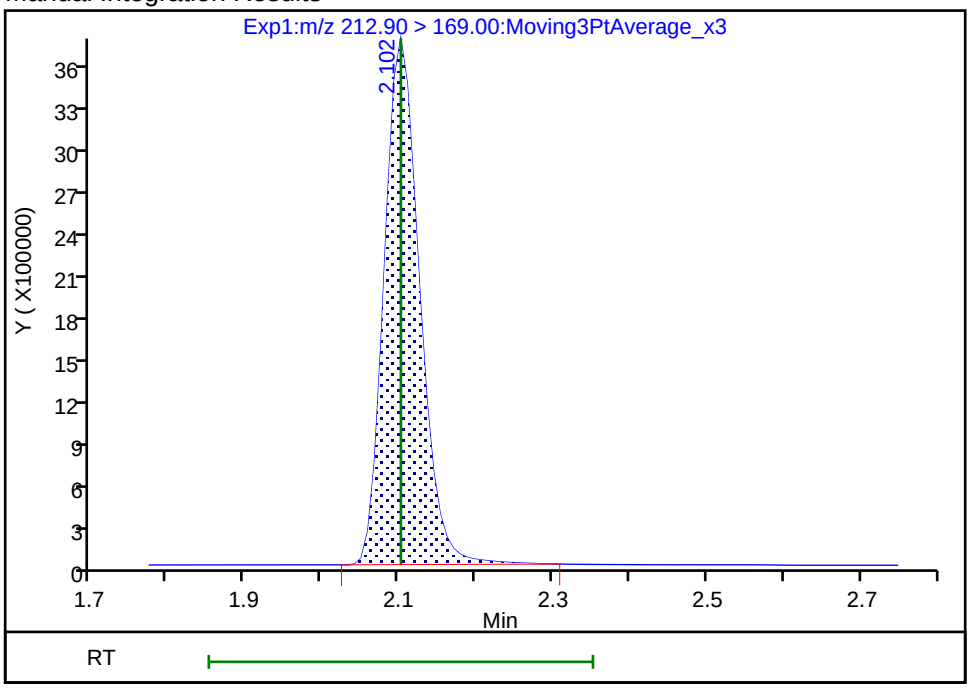
Processing Integration Results

RT: 2.10
Area: 12140677
Amount: 9.520502
Amount Units: ng/ml



Manual Integration Results

RT: 2.10
Area: 12078394
Amount: 9.498628
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:06:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

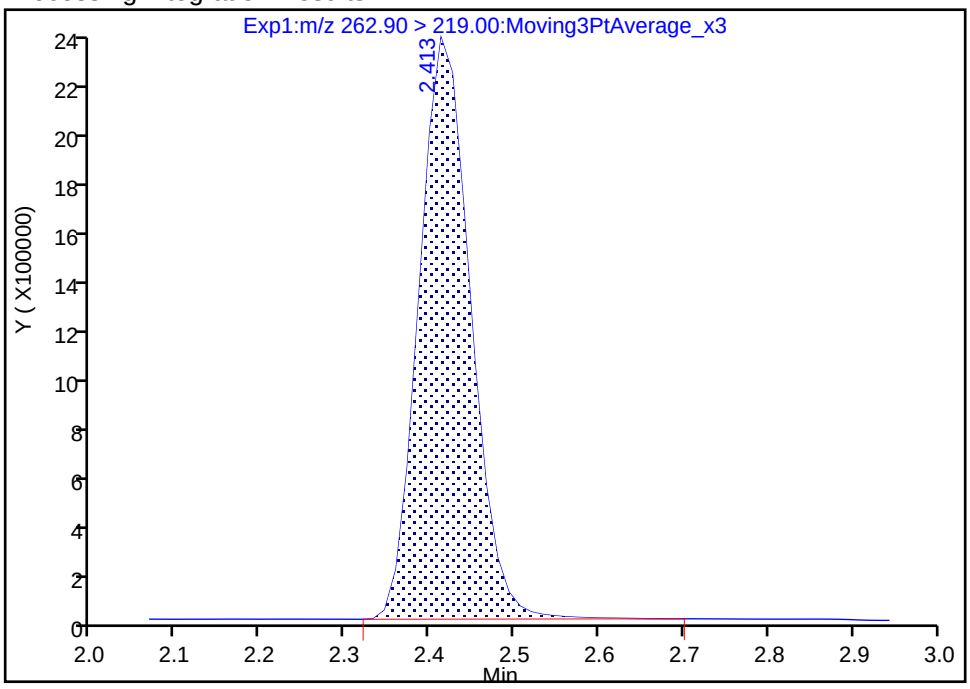
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

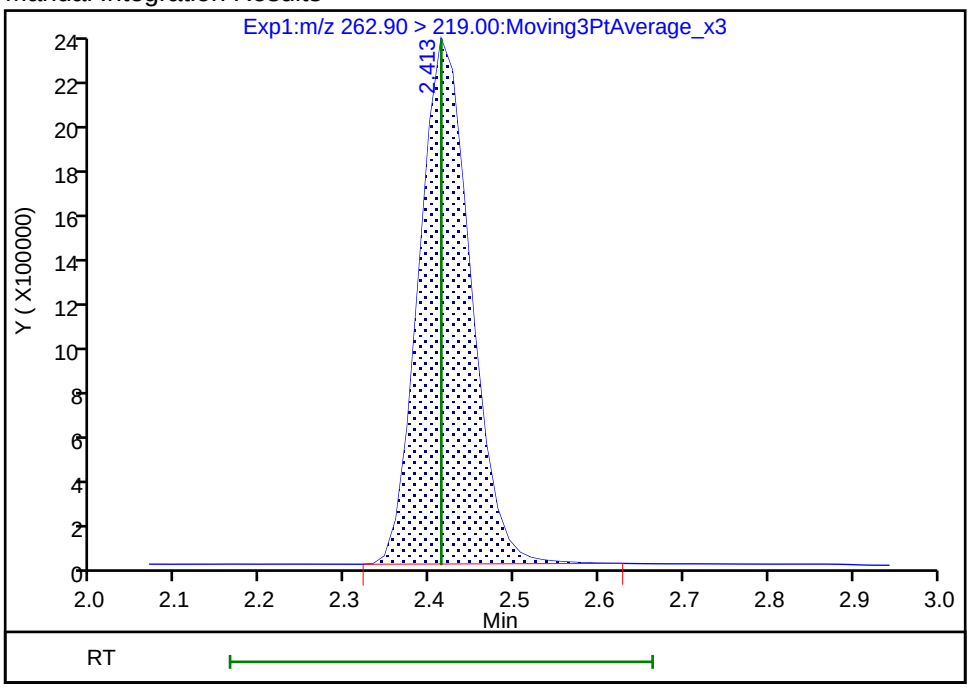
Processing Integration Results

RT: 2.41
Area: 9824090
Amount: 9.789104
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 9800820
Amount: 9.769692
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:07:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

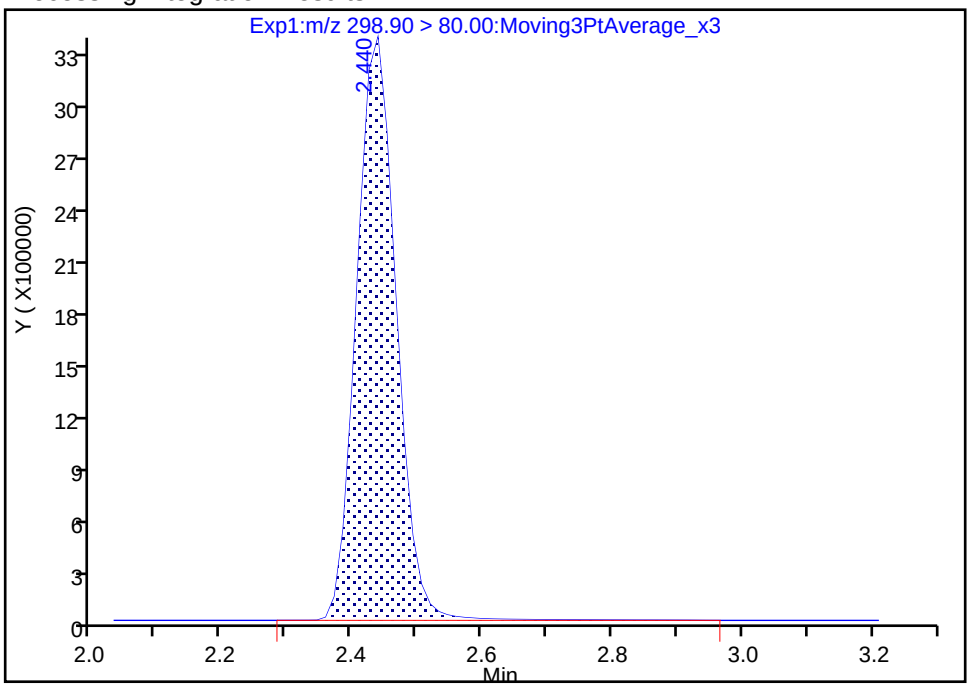
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

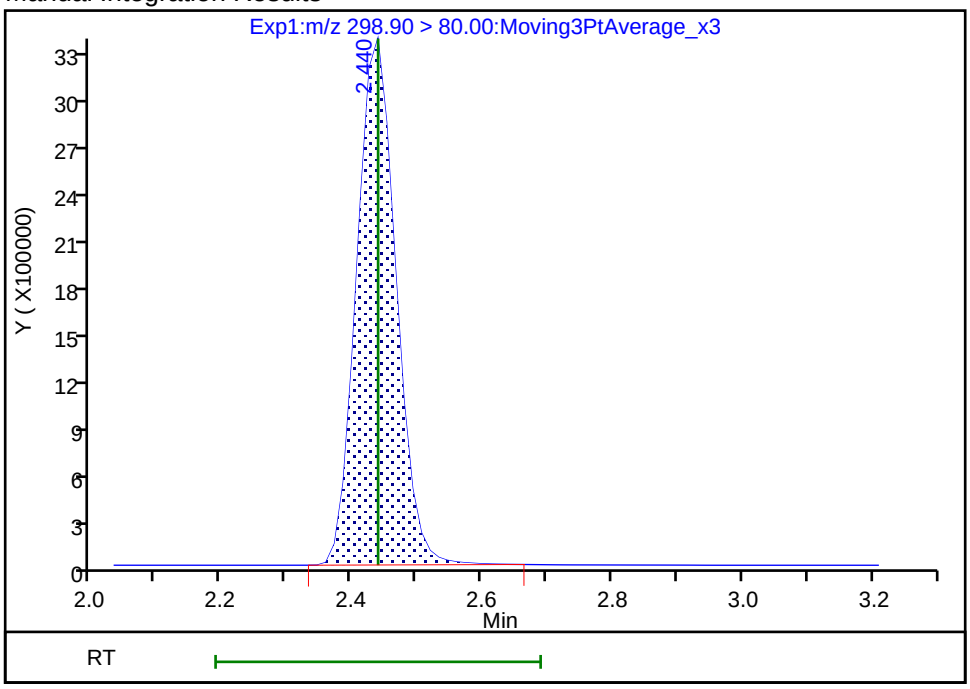
Processing Integration Results

RT: 2.44
Area: 14091407
Amount: 8.613010
Amount Units: ng/ml



Manual Integration Results

RT: 2.44
Area: 14011999
Amount: 8.572318
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:07:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

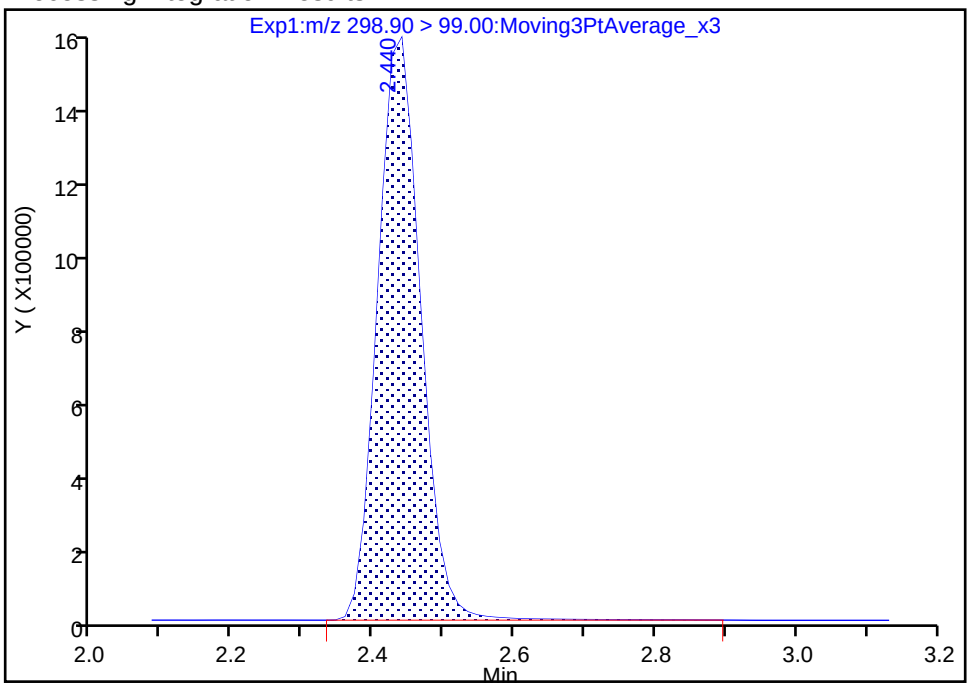
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d				
Injection Date:	05-May-2022 15:54:29	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

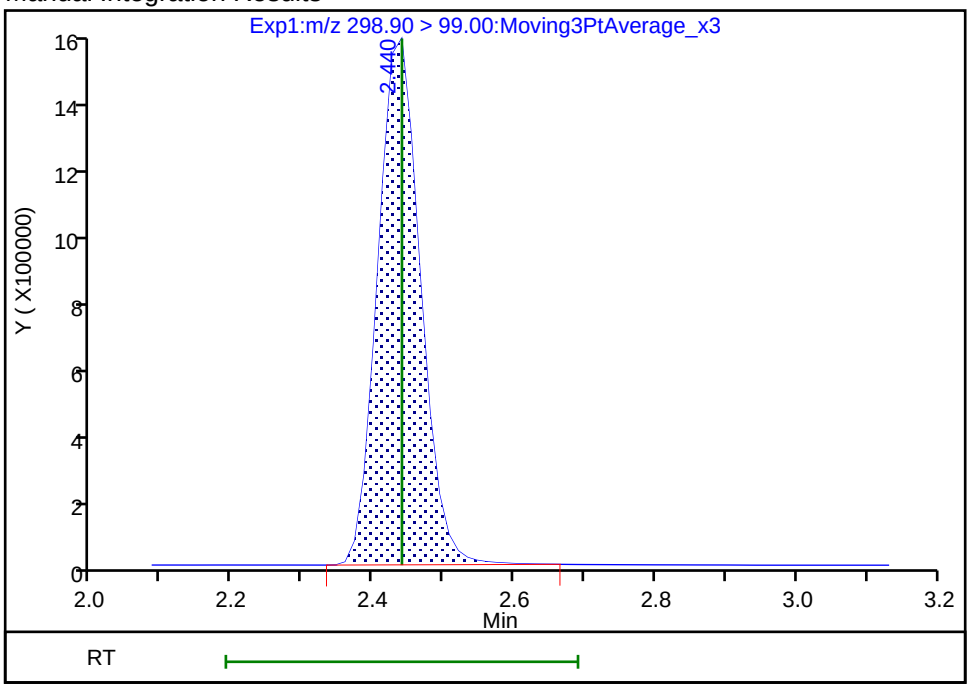
Processing Integration Results

RT: 2.44
Area: 6571078
Amount: 8.613010
Amount Units: ng/ml



Manual Integration Results

RT: 2.44
Area: 6539991
Amount: 8.572318
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:07:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

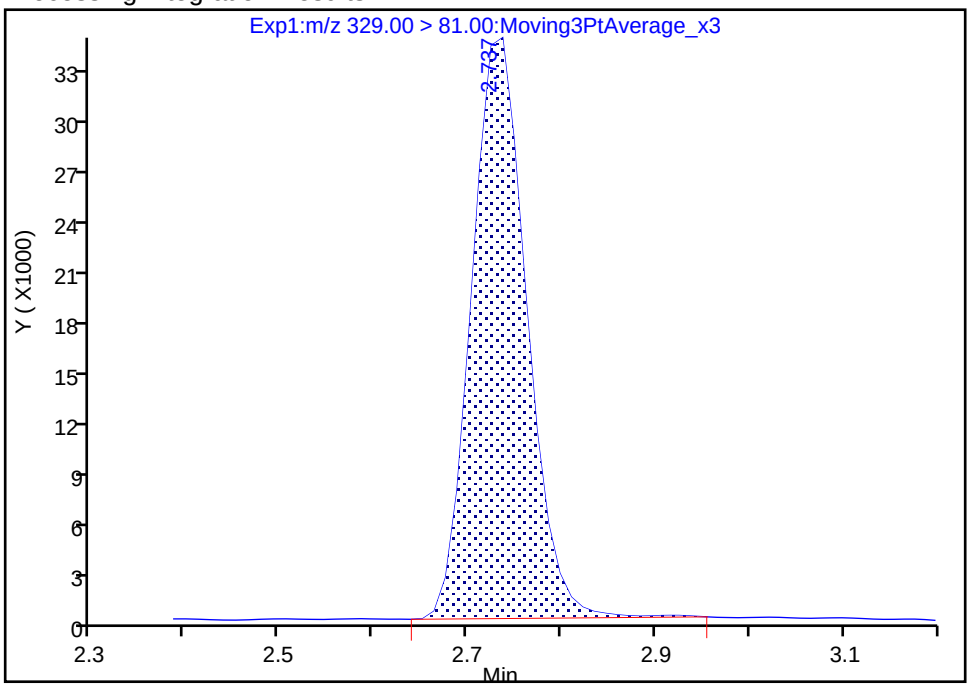
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

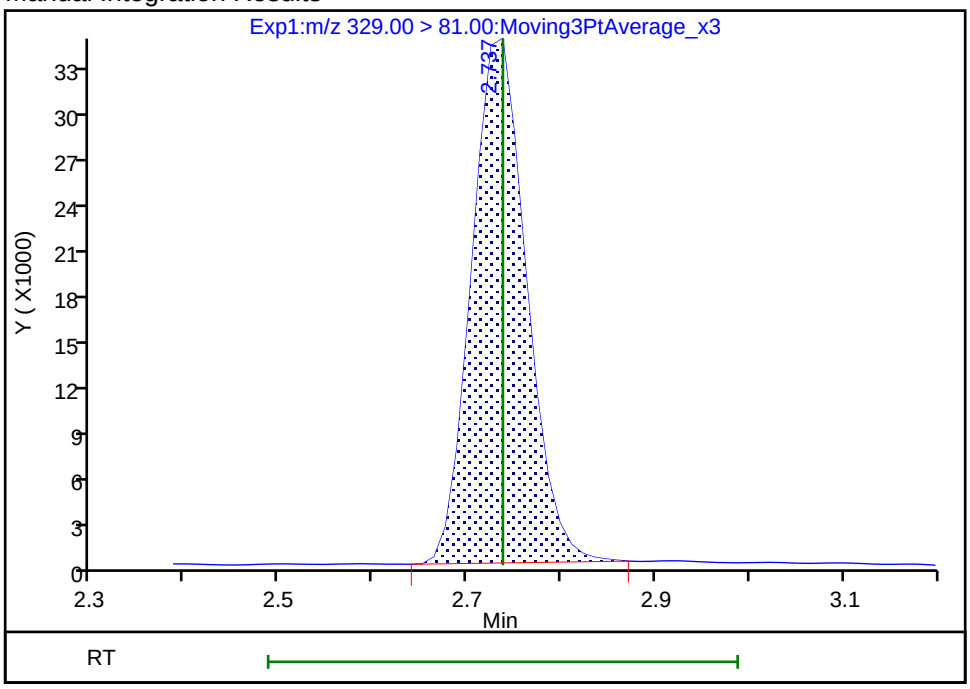
Processing Integration Results

RT: 2.74
Area: 139462
Amount: 1.153799
Amount Units: ng/ml



Manual Integration Results

RT: 2.74
Area: 138405
Amount: 1.152037
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:07:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

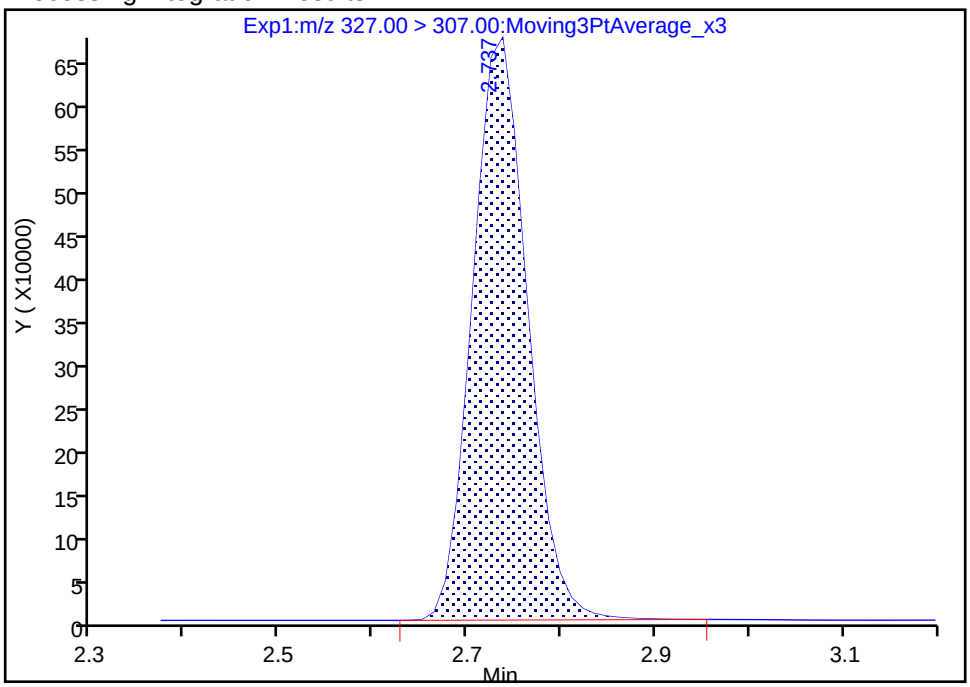
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

61 1H,1H,2H,2H-perfluorohexanesulfo, CAS: 757124-72-4

Signal: 1

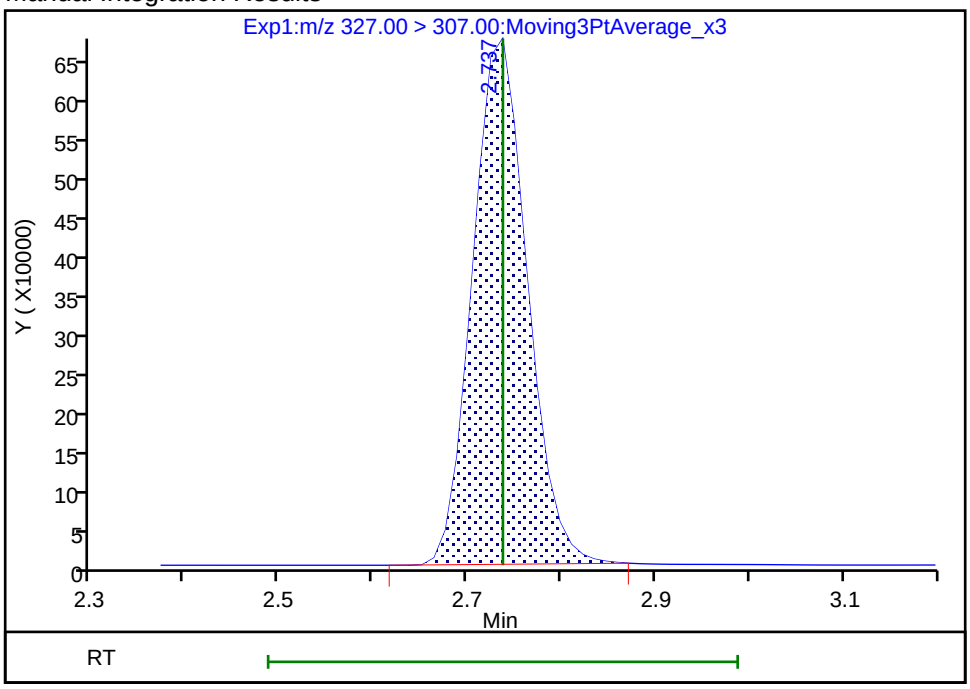
Processing Integration Results

RT: 2.74
Area: 2739244
Amount: 9.136051
Amount Units: ng/ml



Manual Integration Results

RT: 2.74
Area: 2722524
Amount: 9.147415
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:07:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

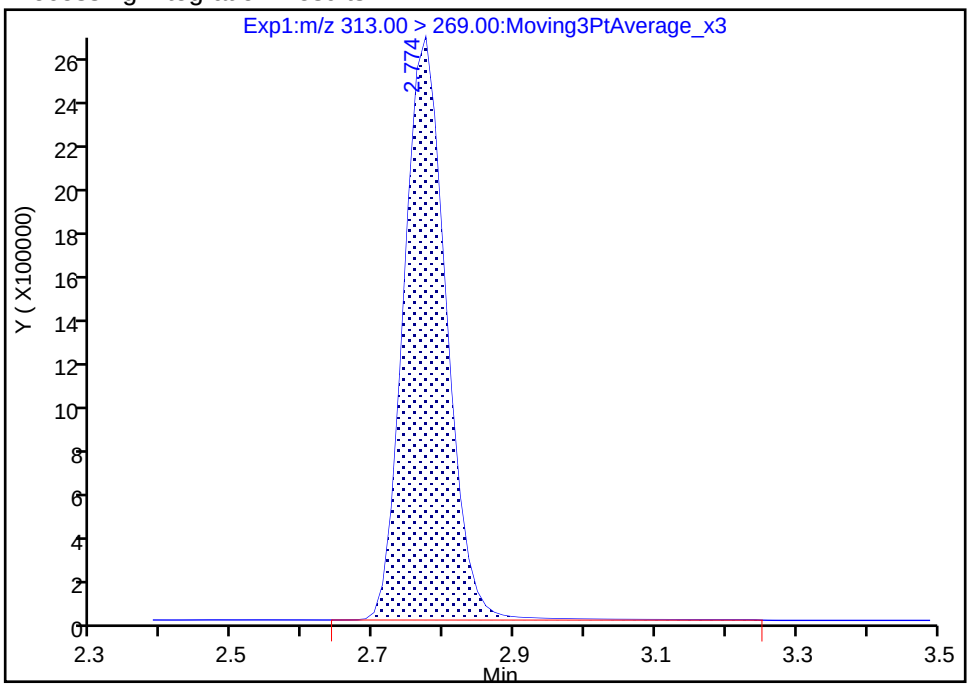
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d				
Injection Date:	05-May-2022 15:54:29	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

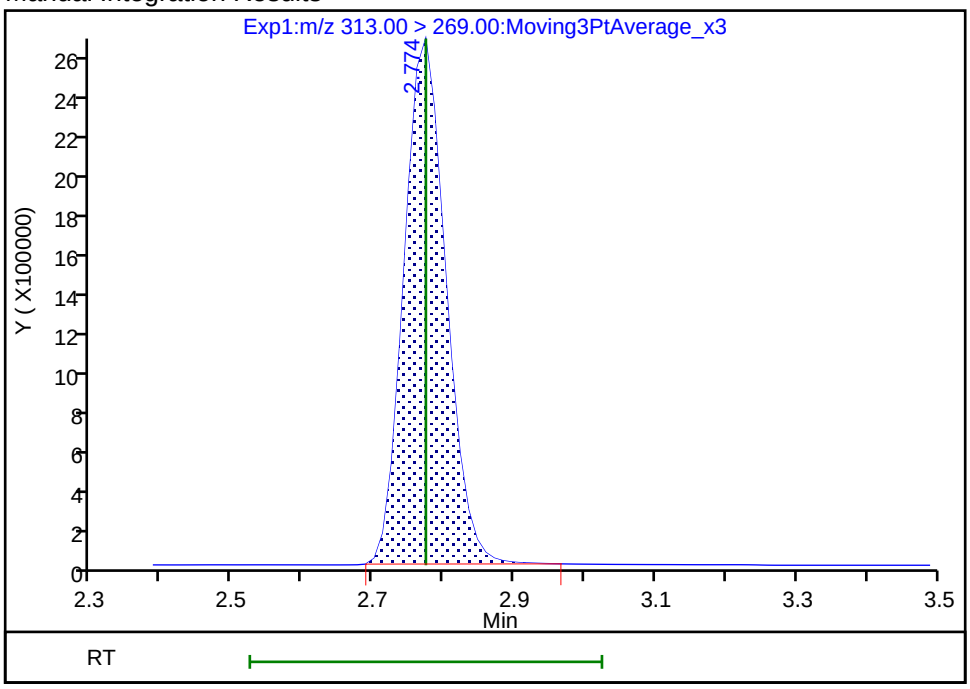
Processing Integration Results

RT: 2.77
Area: 10867326
Amount: 9.879398
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 10743130
Amount: 9.784905
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:07:35

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

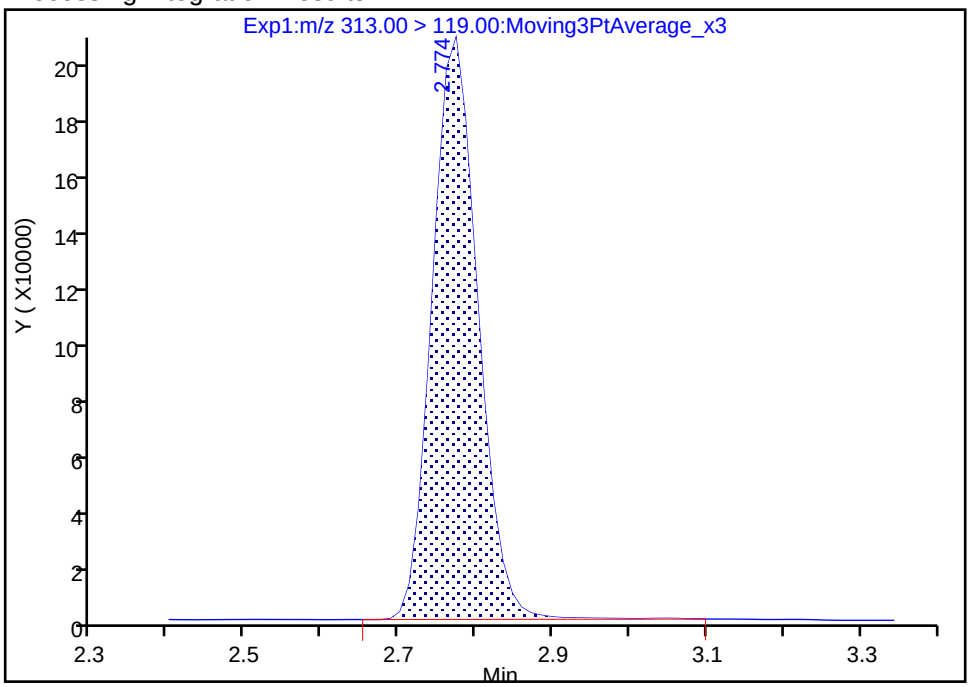
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d				
Injection Date:	05-May-2022 15:54:29	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

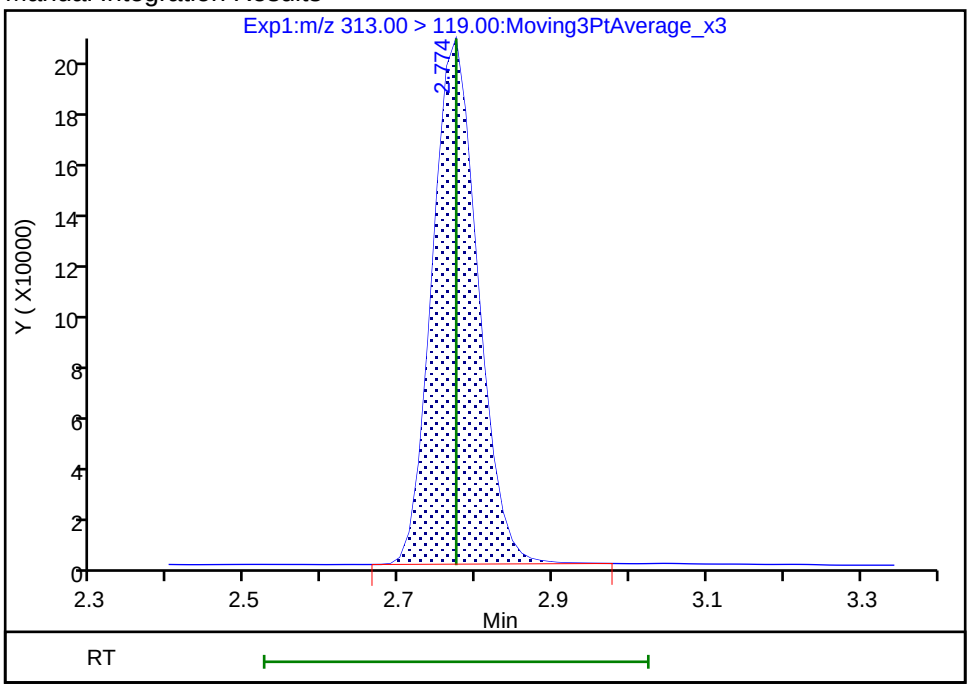
Processing Integration Results

RT: 2.77
Area: 824687
Amount: 9.879398
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 820965
Amount: 9.784905
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:07:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

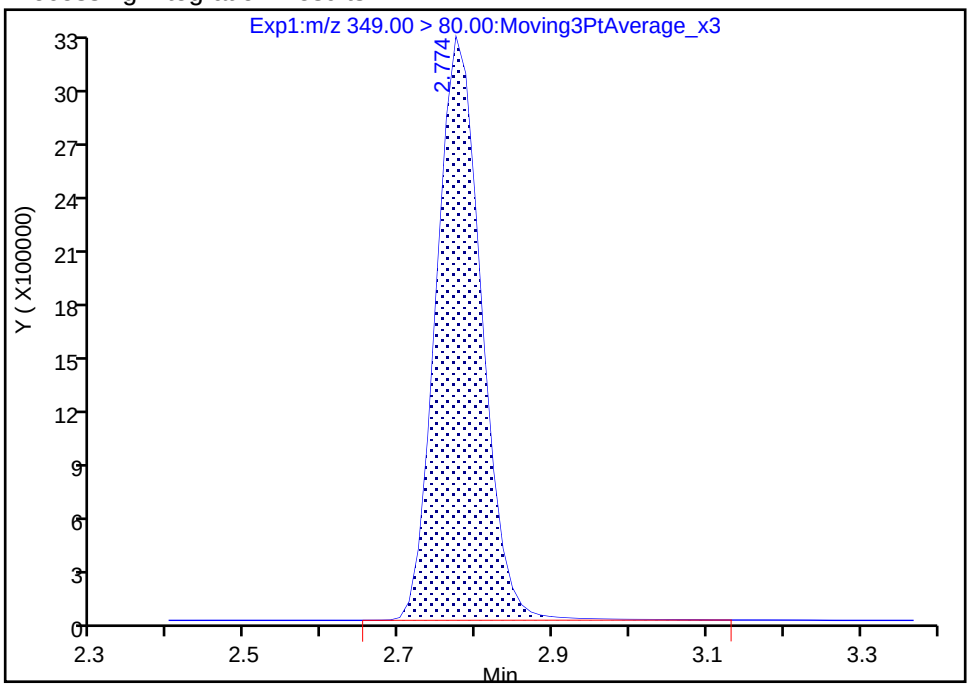
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d				
Injection Date:	05-May-2022 15:54:29	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

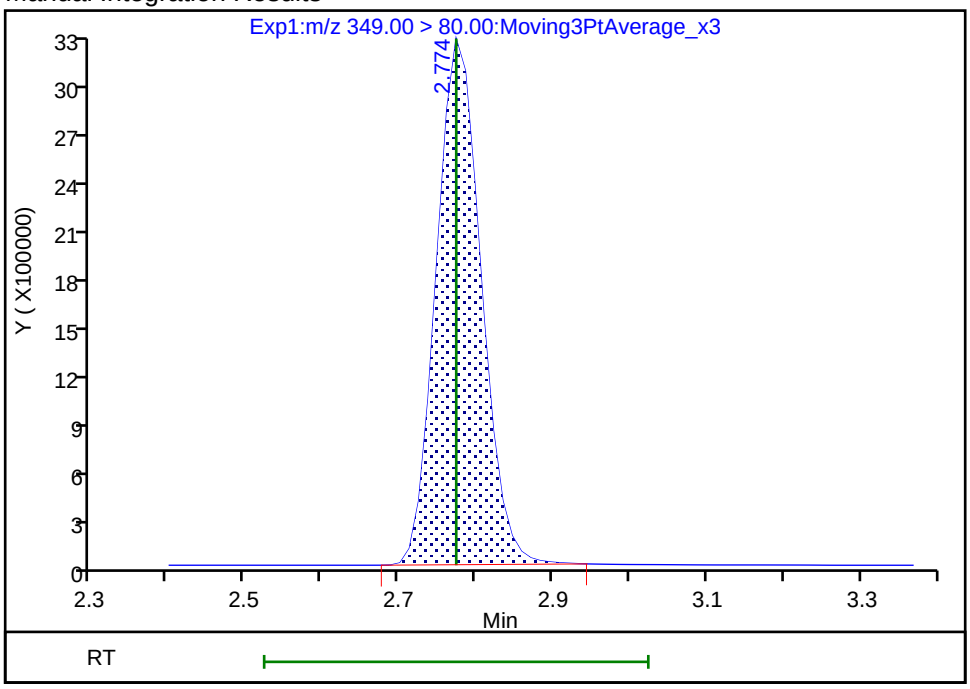
Processing Integration Results

RT: 2.77
Area: 13065975
Amount: 9.048826
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 12980438
Amount: 9.069010
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:07:43

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

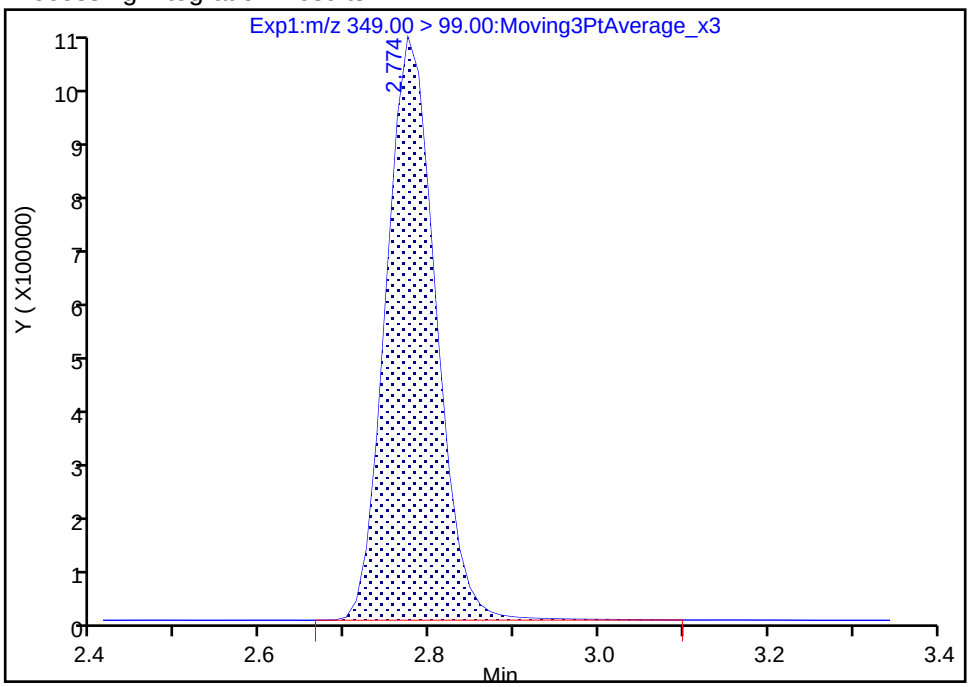
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 2

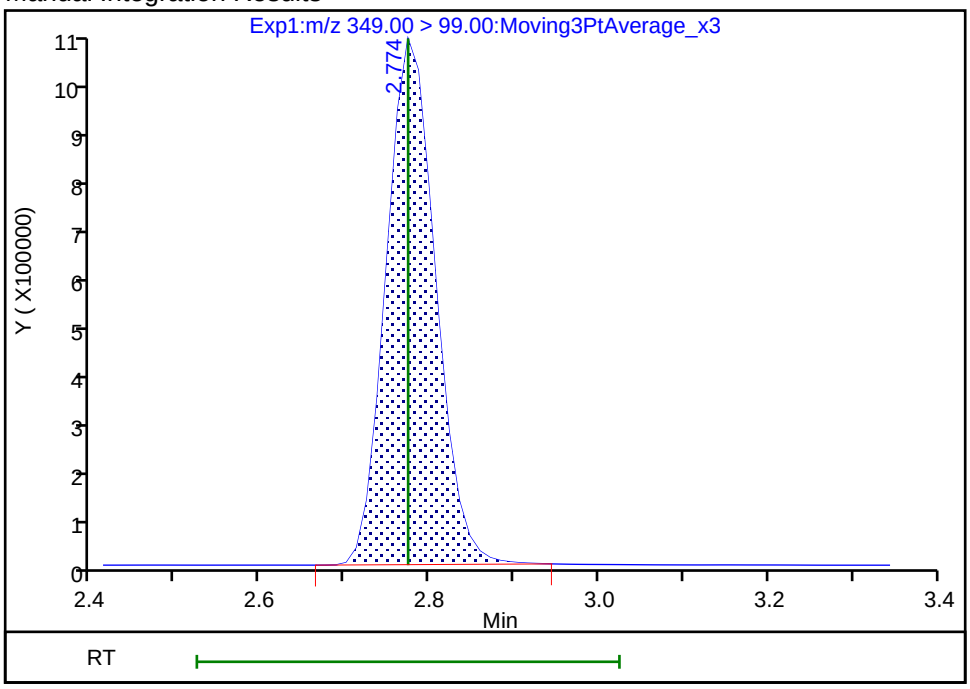
Processing Integration Results

RT: 2.77
Area: 4417809
Amount: 9.048826
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 4391133
Amount: 9.069010
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:07:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

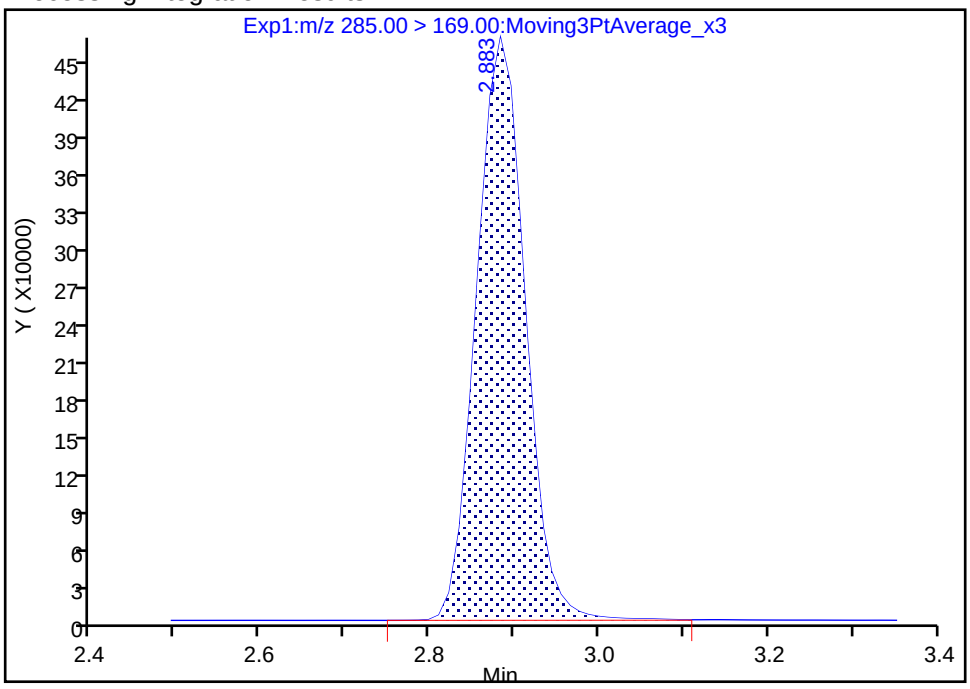
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

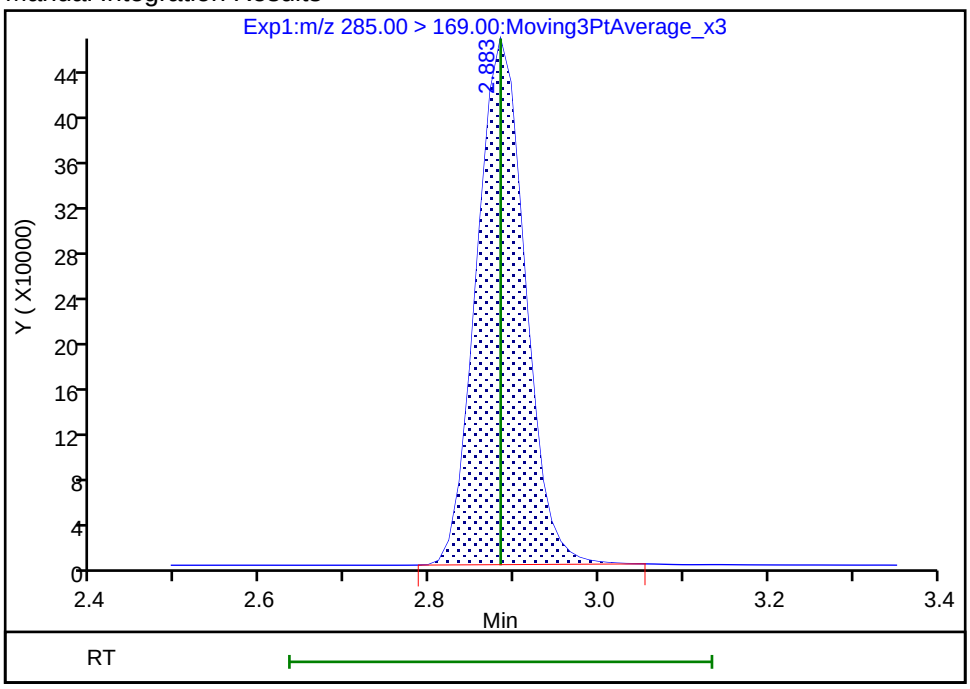
Processing Integration Results

RT: 2.88
Area: 1871866
Amount: 9.077525
Amount Units: ng/ml



Manual Integration Results

RT: 2.88
Area: 1859903
Amount: 9.028240
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:07:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

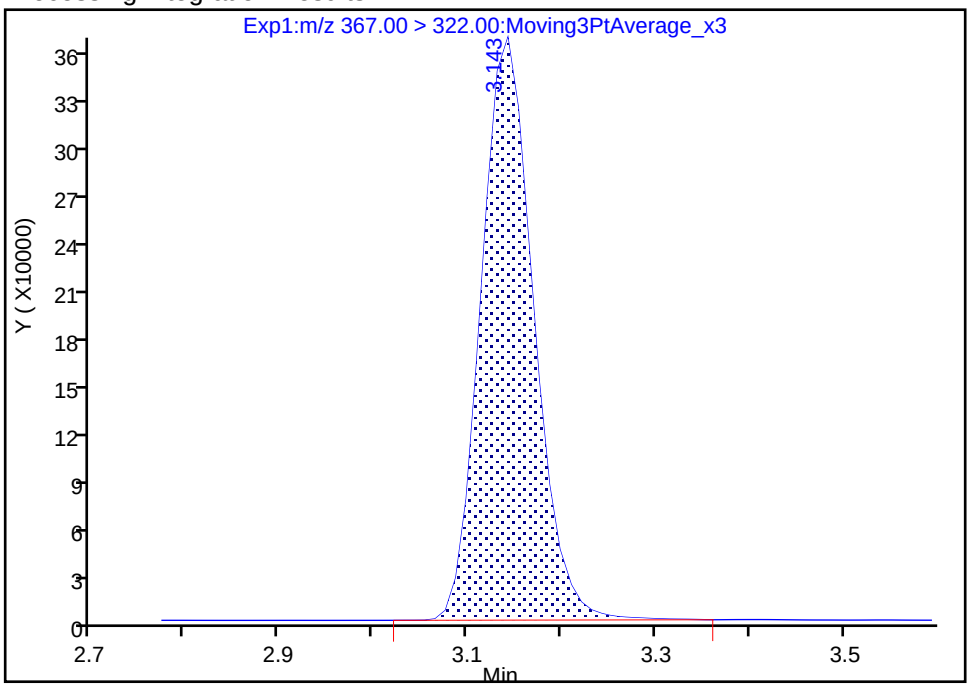
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

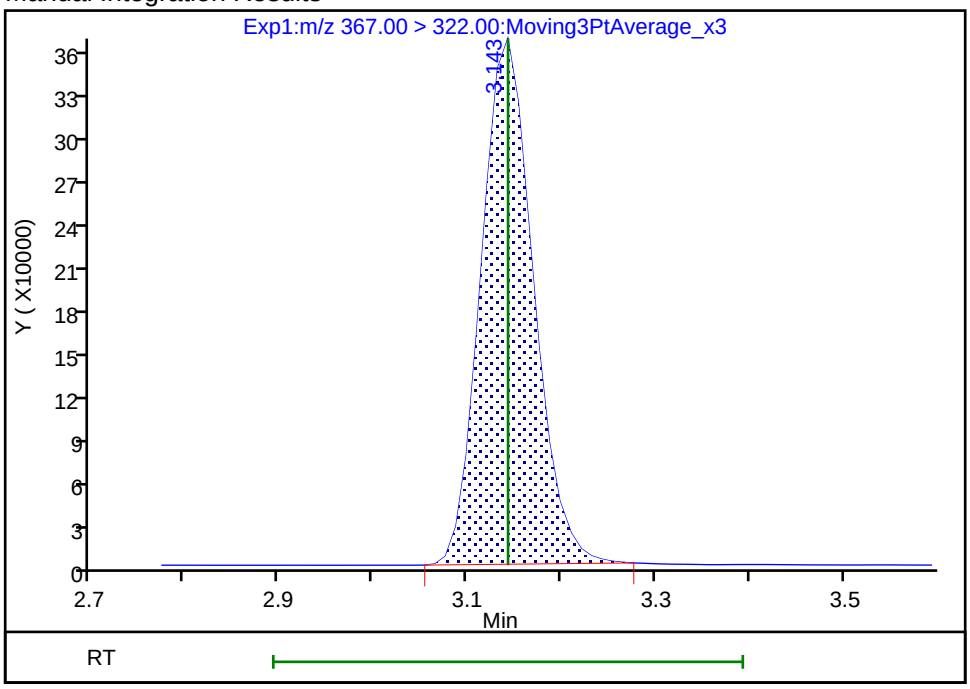
Processing Integration Results

RT: 3.14
Area: 1401298
Amount: 1.260057
Amount Units: ng/ml



Manual Integration Results

RT: 3.14
Area: 1389706
Amount: 1.257408
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:08:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

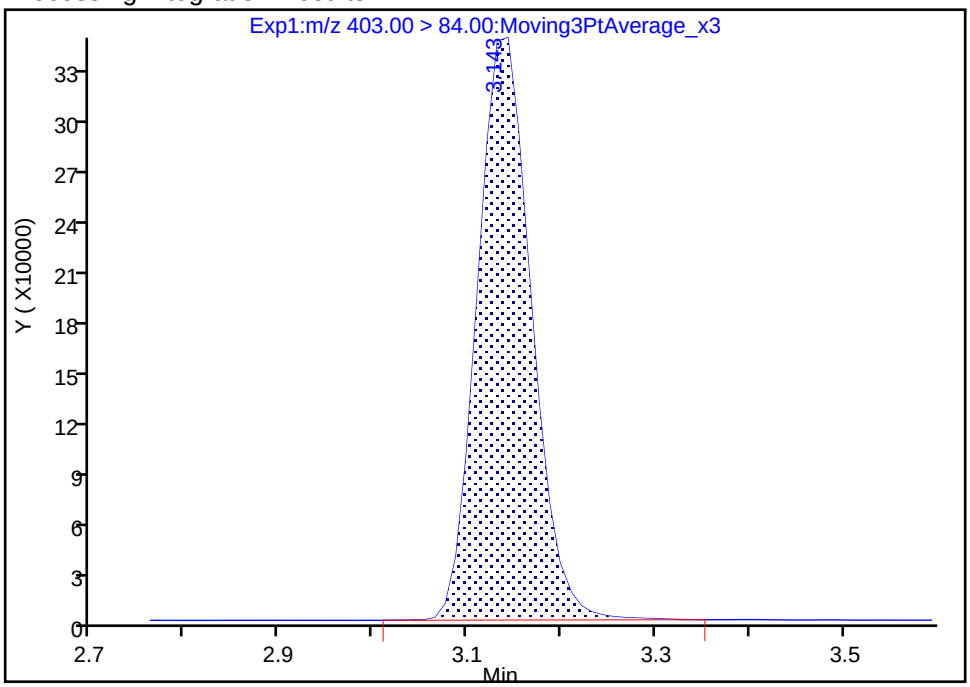
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d				
Injection Date:	05-May-2022 15:54:29	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

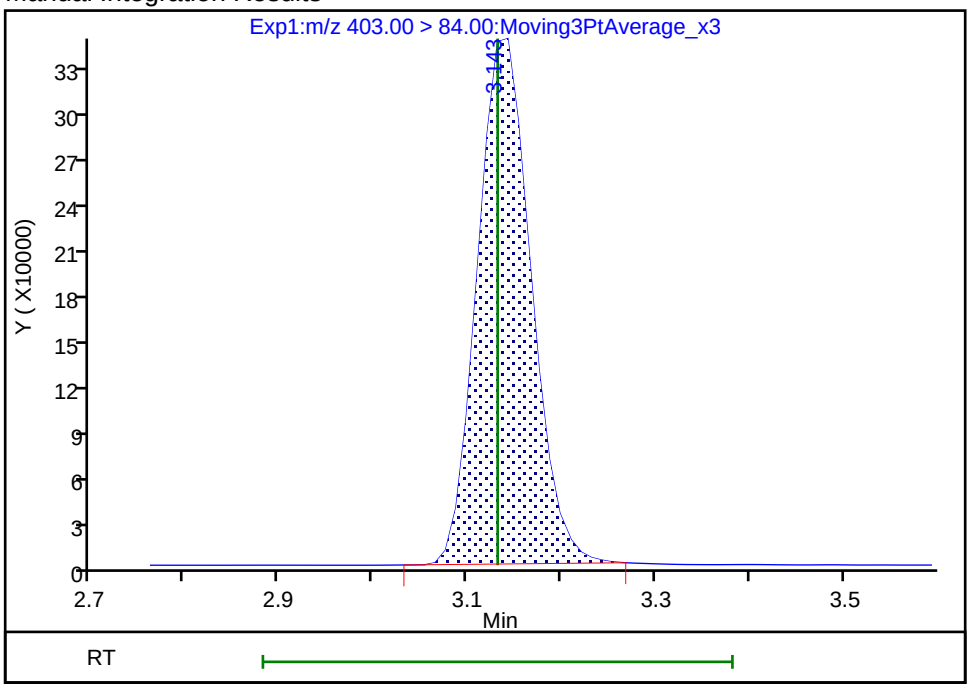
Processing Integration Results

RT: 3.14
Area: 1383148
Amount: 1.209732
Amount Units: ng/ml



Manual Integration Results

RT: 3.14
Area: 1370449
Amount: 1.206278
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:07:58

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

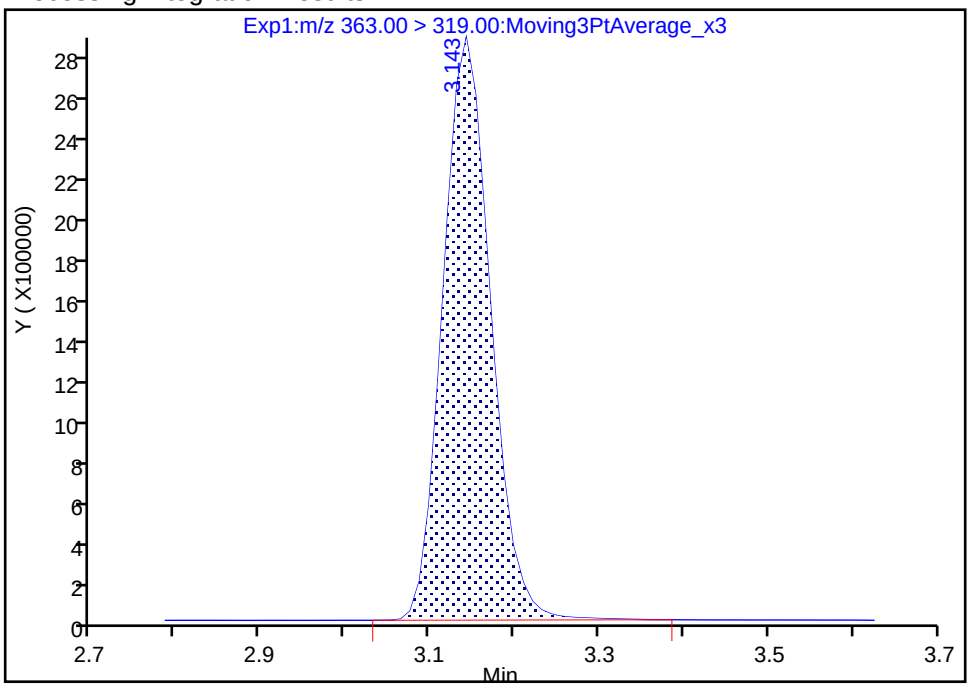
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

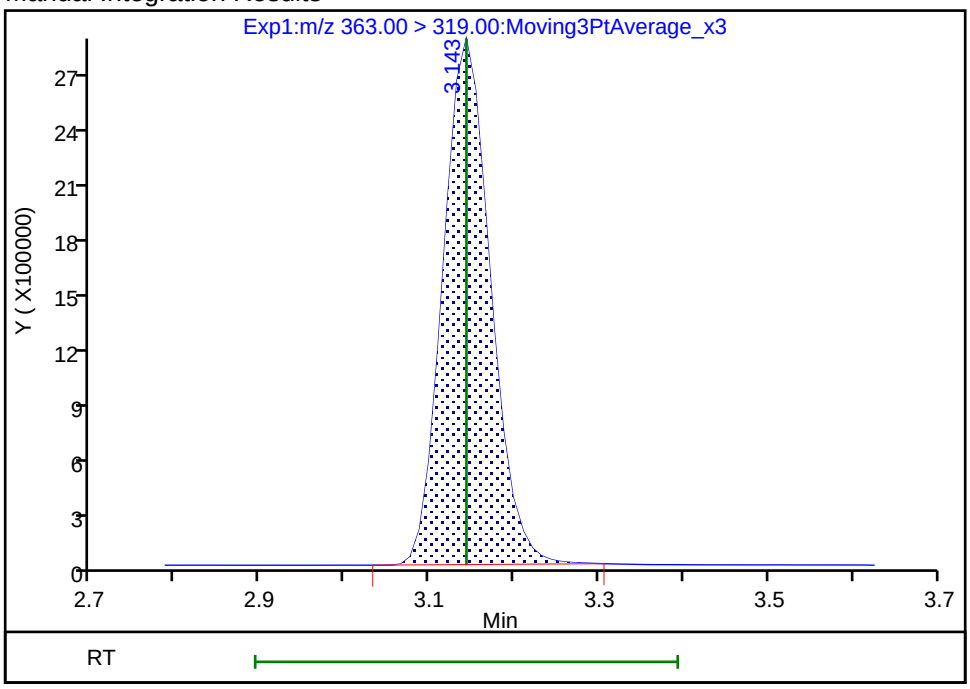
Processing Integration Results

RT: 3.14
Area: 11010231
Amount: 9.791471
Amount Units: ng/ml



Manual Integration Results

RT: 3.14
Area: 10952447
Amount: 9.748432
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:08:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

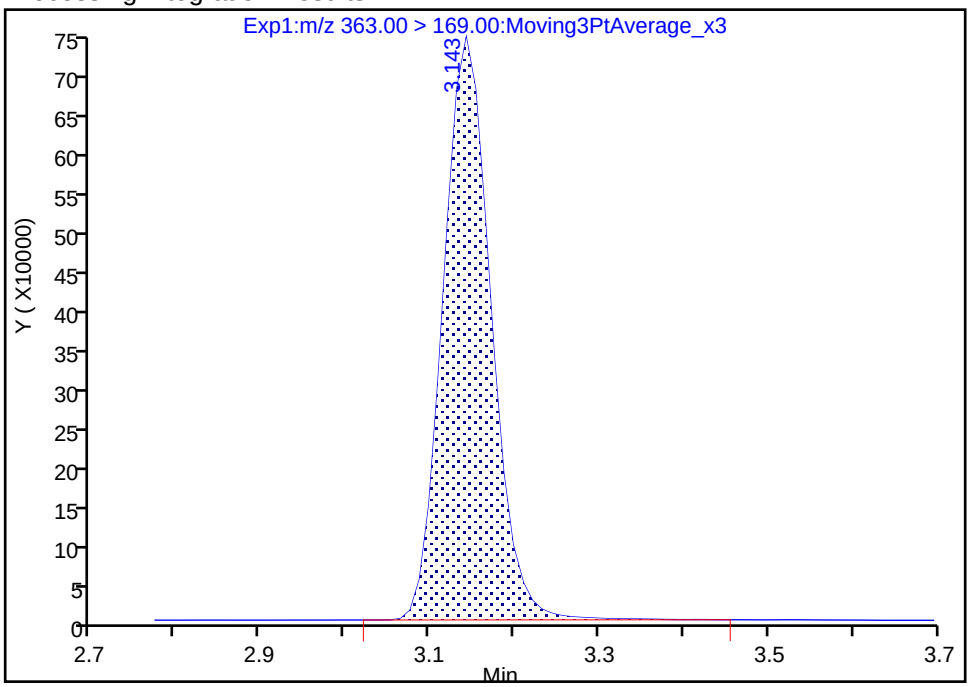
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d				
Injection Date:	05-May-2022 15:54:29	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

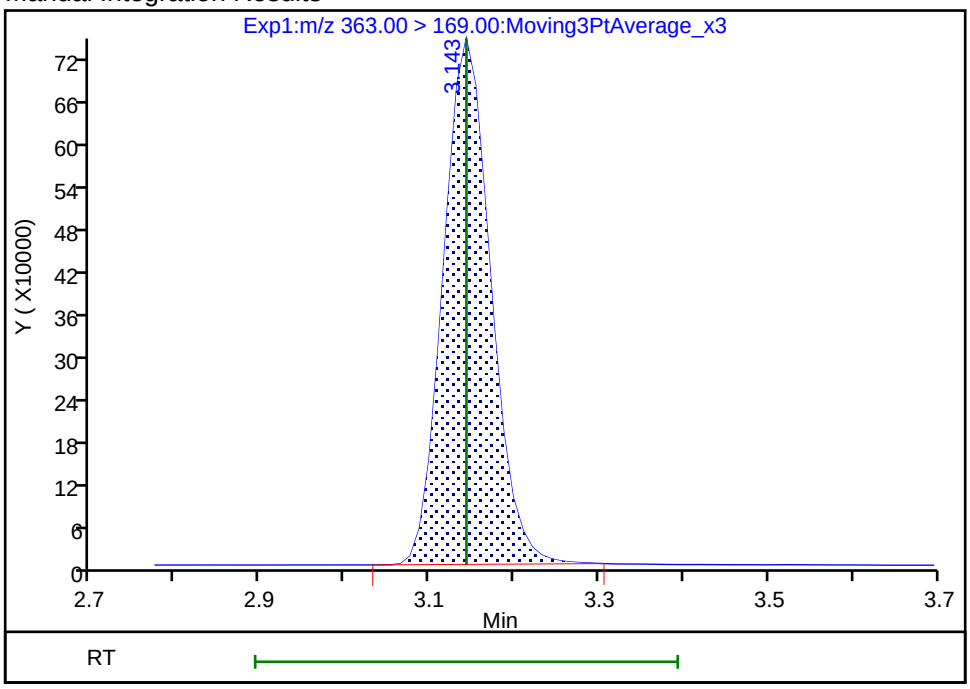
Processing Integration Results

RT: 3.14
Area: 2925390
Amount: 9.791471
Amount Units: ng/ml



Manual Integration Results

RT: 3.14
Area: 2906461
Amount: 9.748432
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:08:24

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

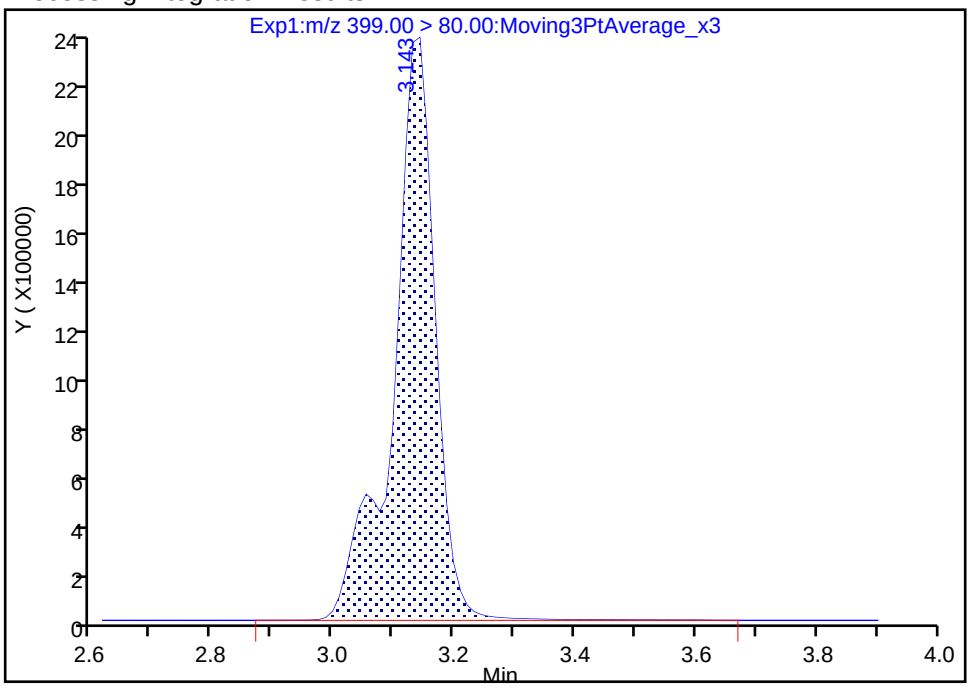
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

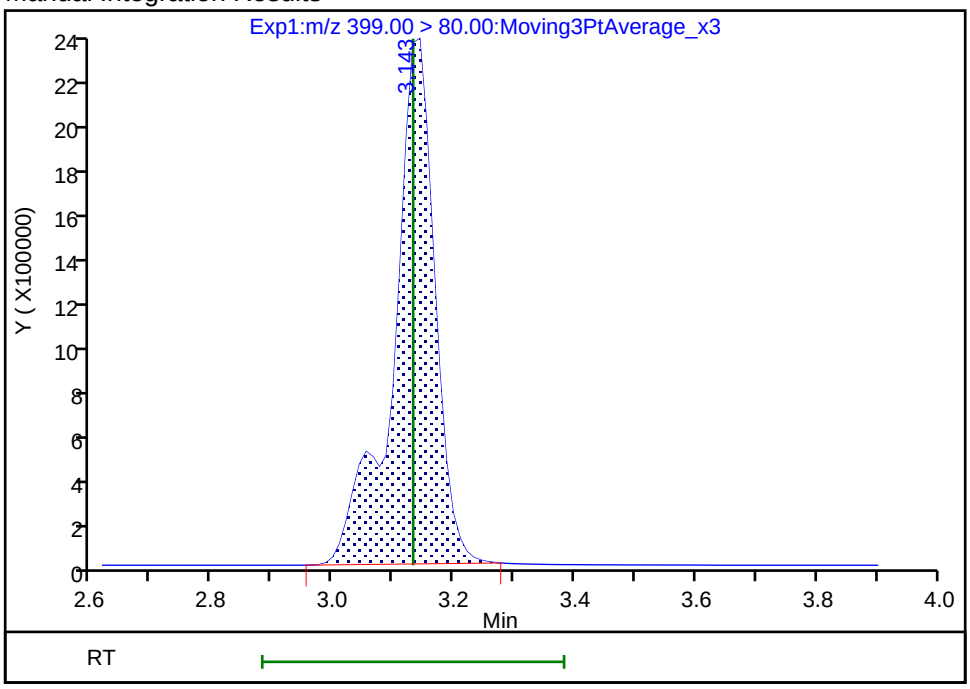
Processing Integration Results

RT: 3.14
Area: 11498524
Amount: 8.955924
Amount Units: ng/ml



Manual Integration Results

RT: 3.14
Area: 11337777
Amount: 8.851018
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:08:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

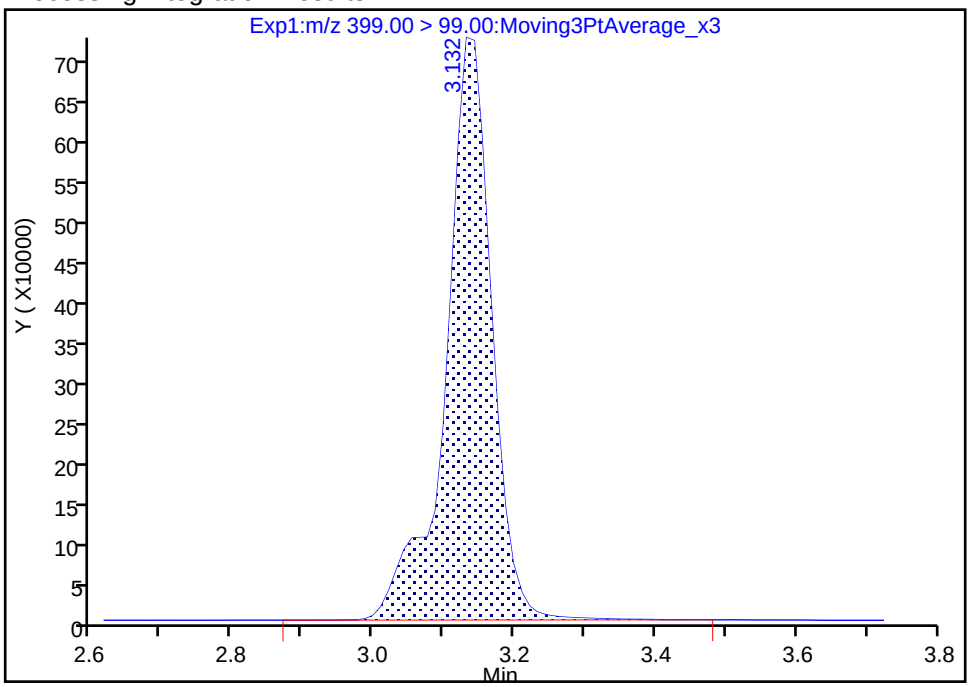
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

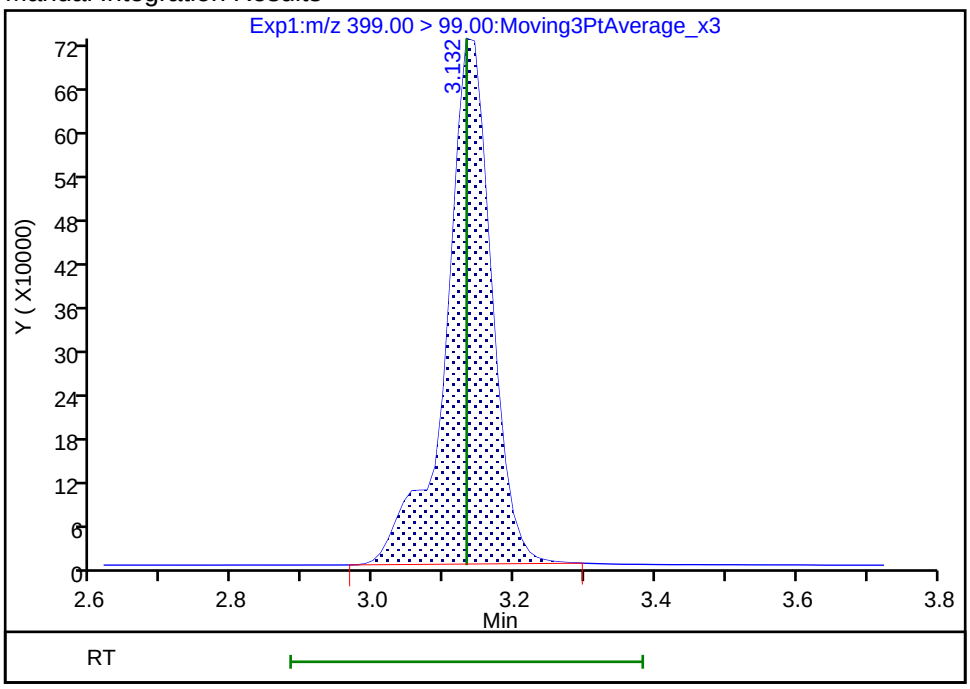
Processing Integration Results

RT: 3.13
Area: 3263795
Amount: 8.955924
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 3232835
Amount: 8.851018
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:08:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

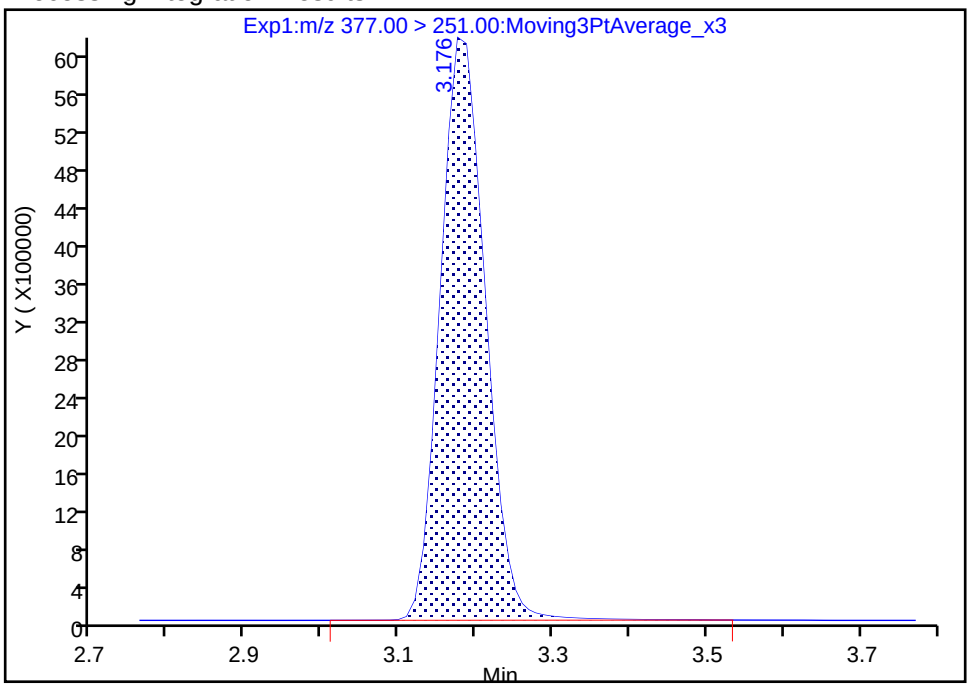
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d				
Injection Date:	05-May-2022 15:54:29	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

77 DONA, CAS: 919005-14-4

Signal: 1

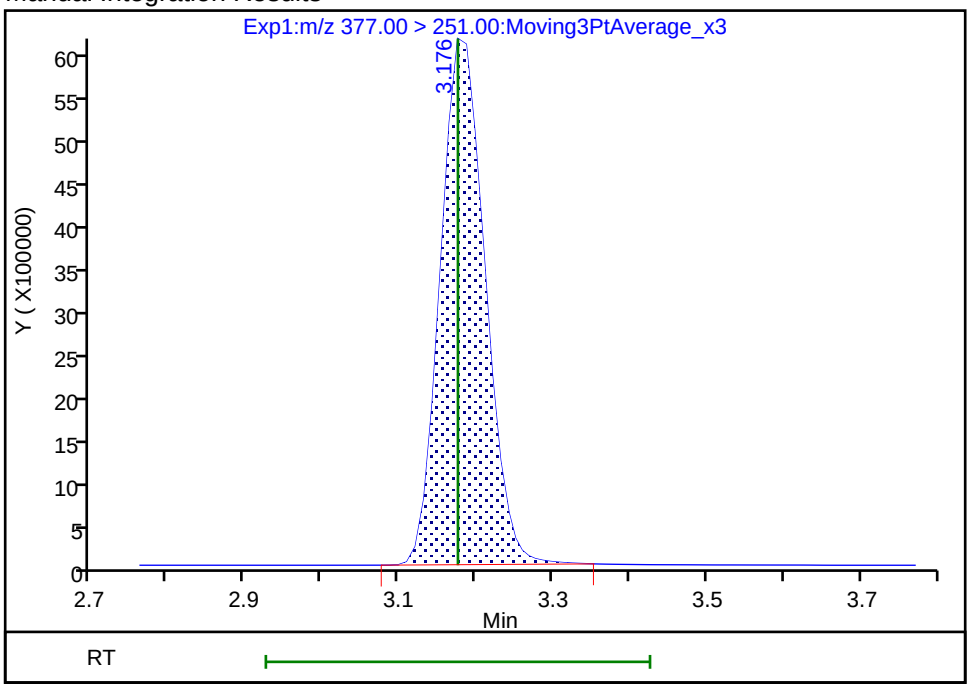
Processing Integration Results

RT: 3.18
Area: 24818264
Amount: 8.301125
Amount Units: ng/ml



Manual Integration Results

RT: 3.18
Area: 24656680
Amount: 8.263733
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:08:28

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

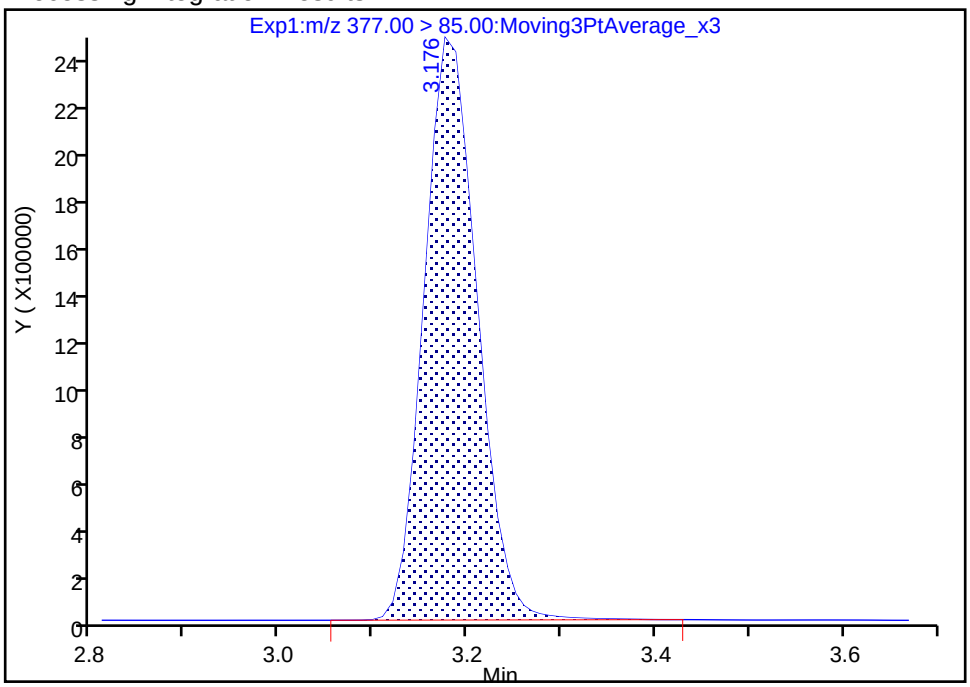
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

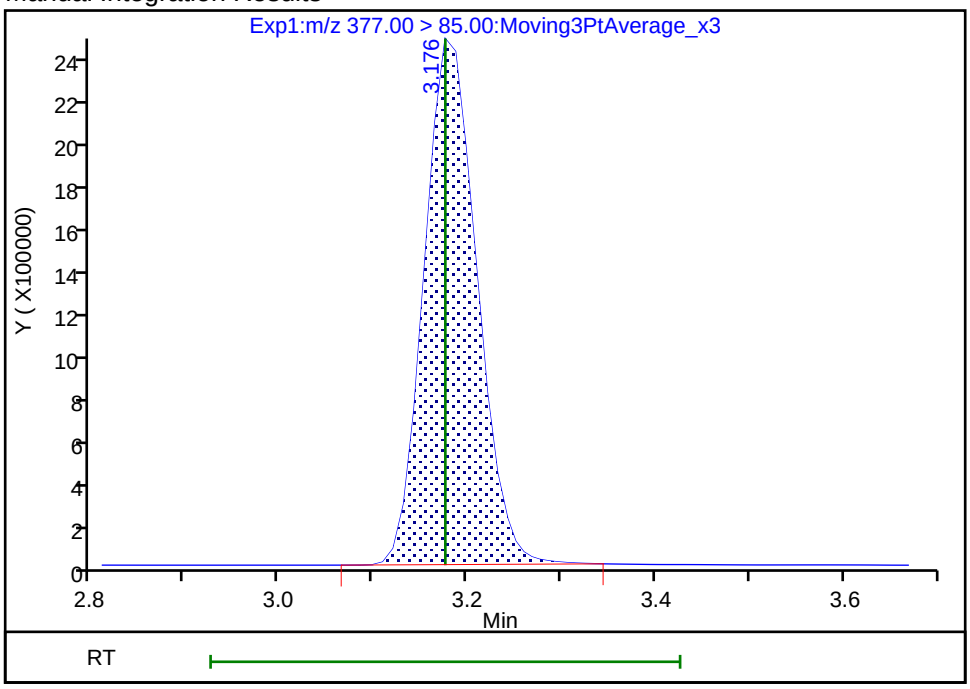
Processing Integration Results

RT: 3.18
Area: 9657888
Amount: 8.301125
Amount Units: ng/ml



Manual Integration Results

RT: 3.18
Area: 9615847
Amount: 8.263733
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:08:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

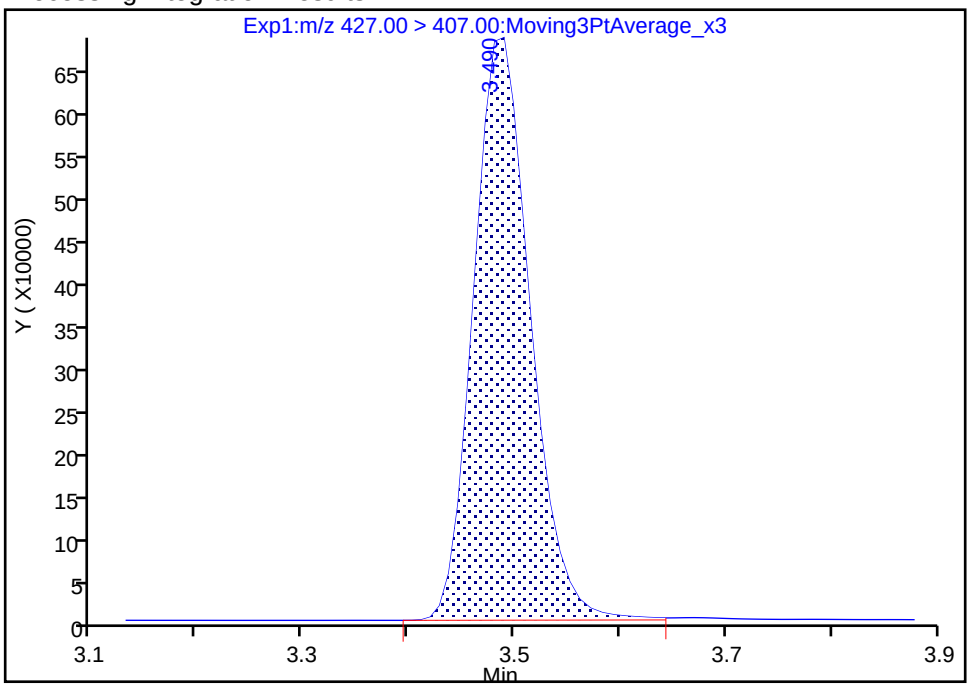
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

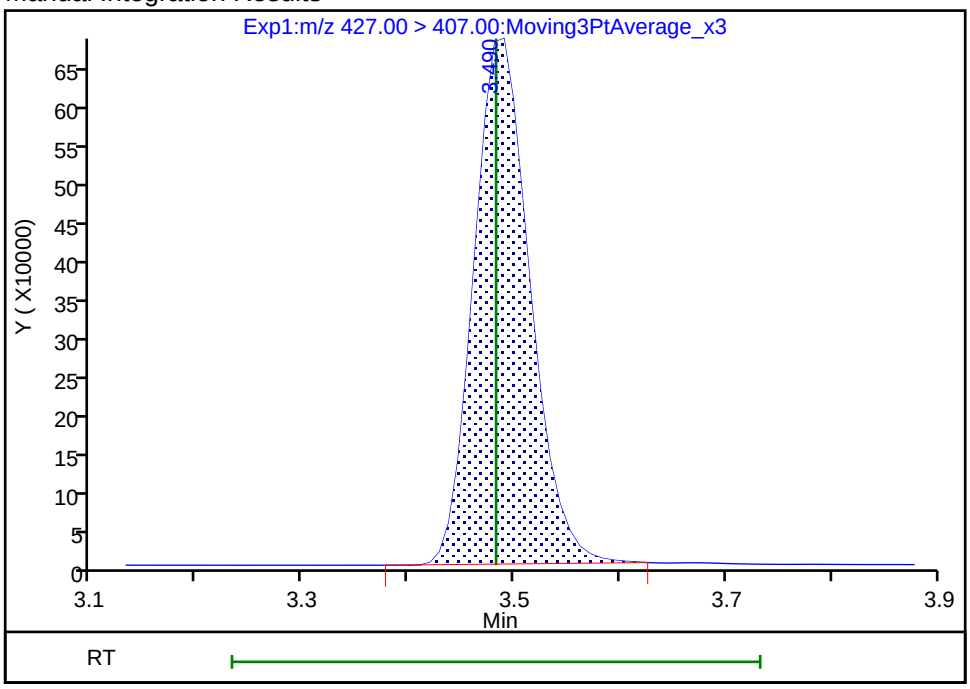
Processing Integration Results

RT: 3.49
Area: 2565170
Amount: 9.525907
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 2539801
Amount: 9.501566
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:08:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

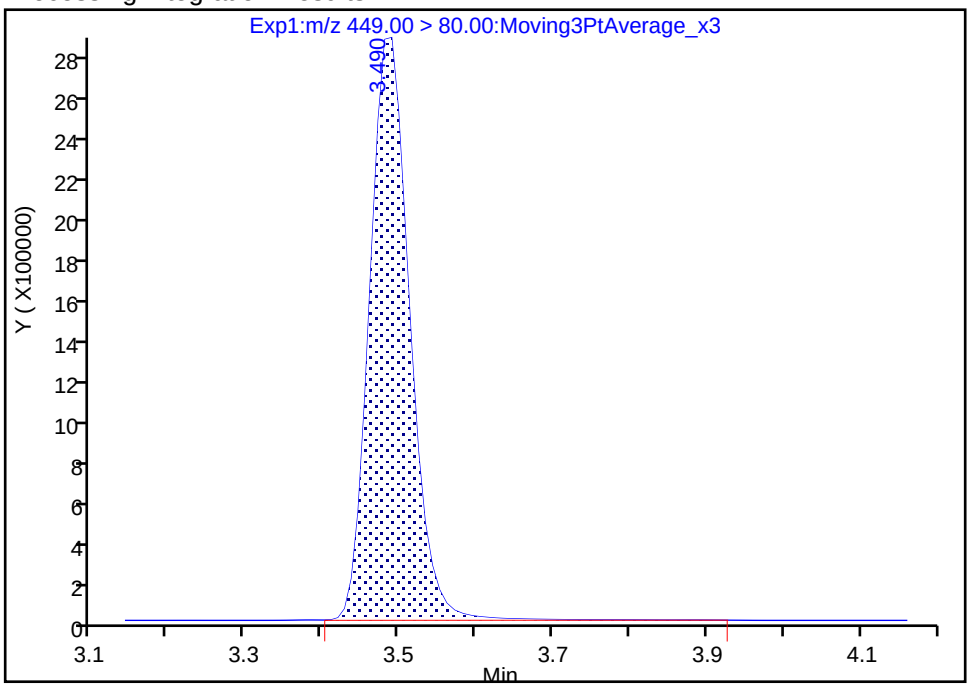
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

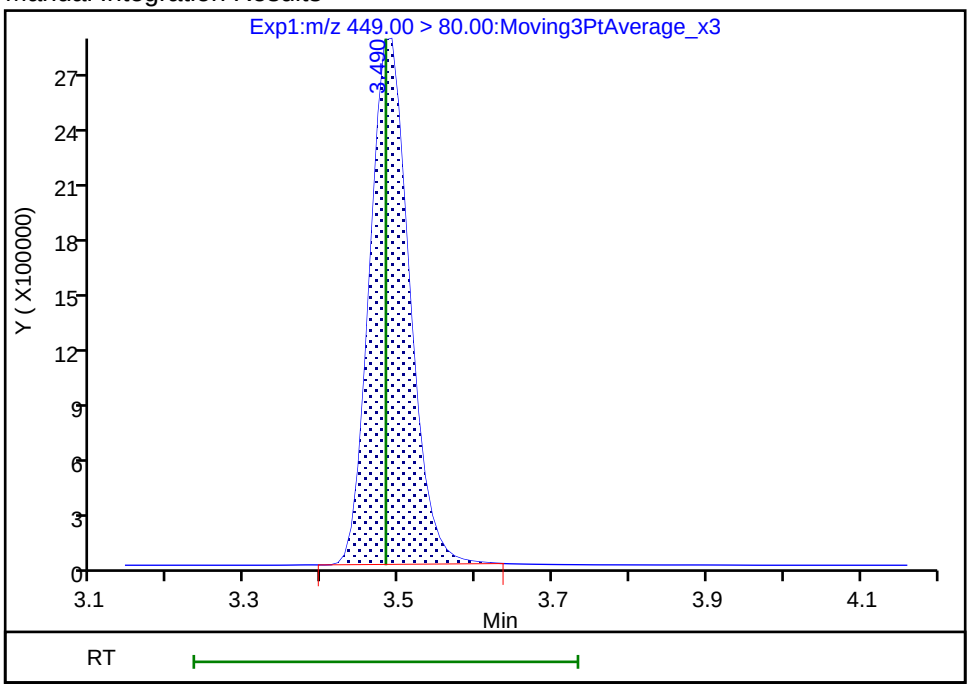
Processing Integration Results

RT: 3.49
Area: 10150865
Amount: 9.019239
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 10042026
Amount: 8.947034
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:08:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

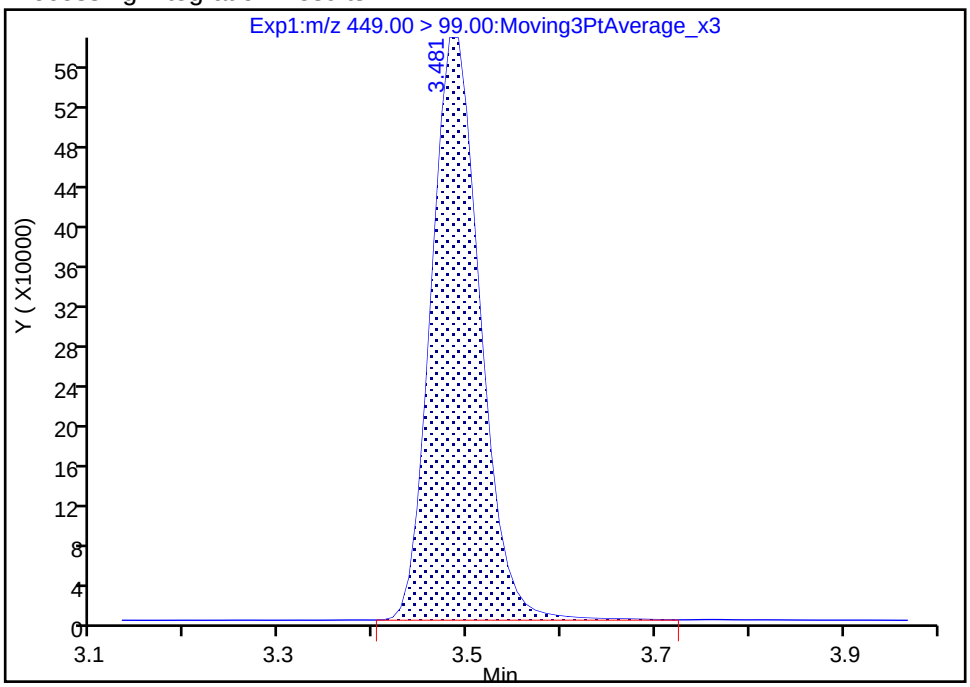
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

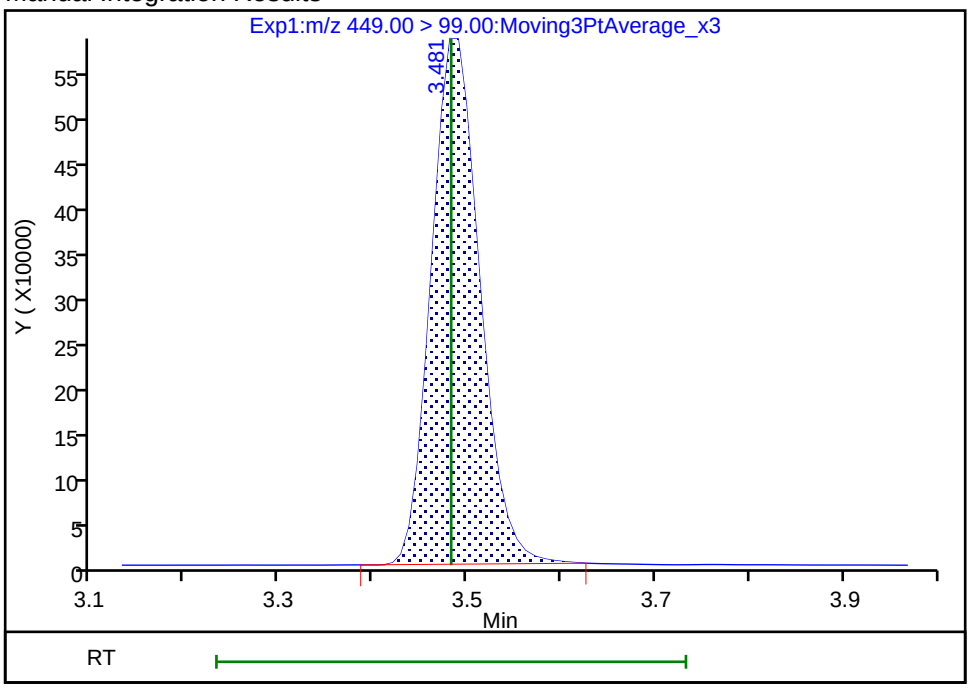
Processing Integration Results

RT: 3.48
Area: 2116440
Amount: 9.019239
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 2093971
Amount: 8.947034
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:08:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

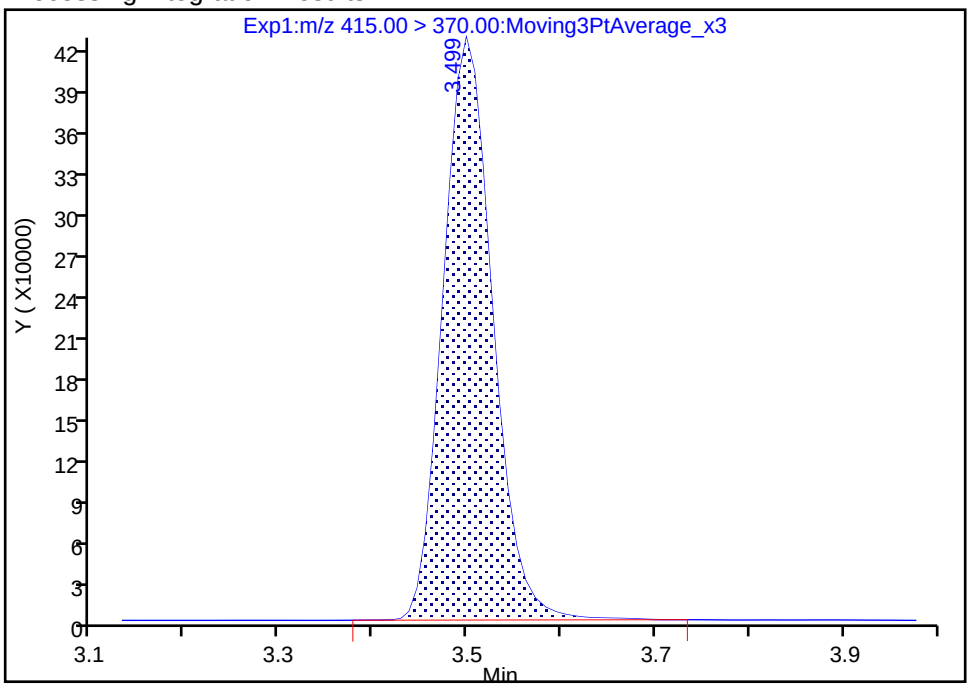
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

* 62 13C2 PFOA, CAS: STL00623

Signal: 1

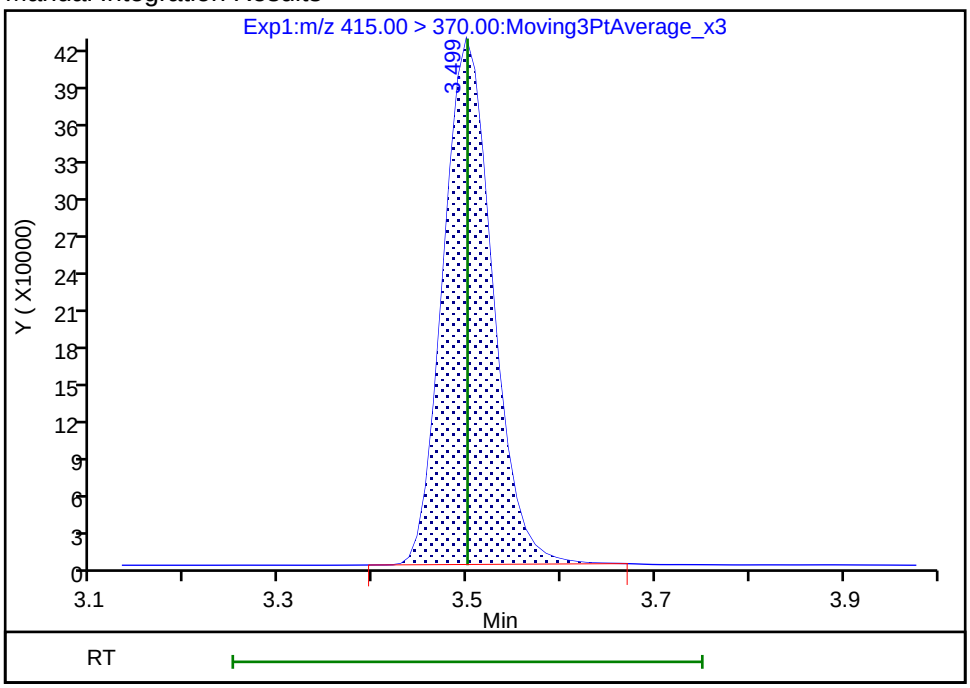
Processing Integration Results

RT: 3.50
Area: 1552034
Amount: 1.250000
Amount Units: ng/ml



Manual Integration Results

RT: 3.50
Area: 1543092
Amount: 1.250000
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:09:06
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

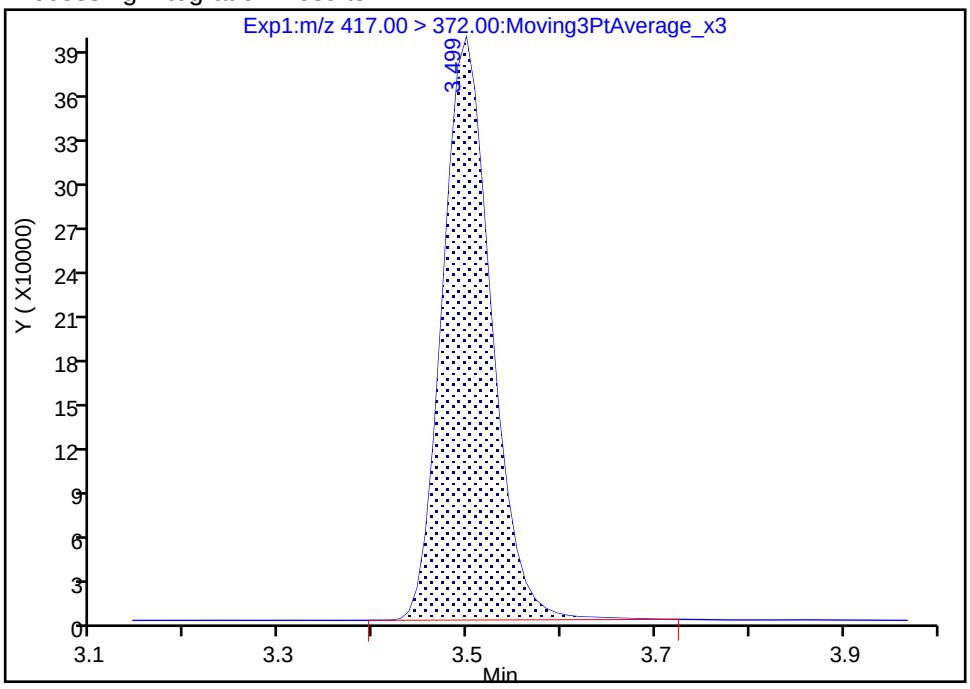
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

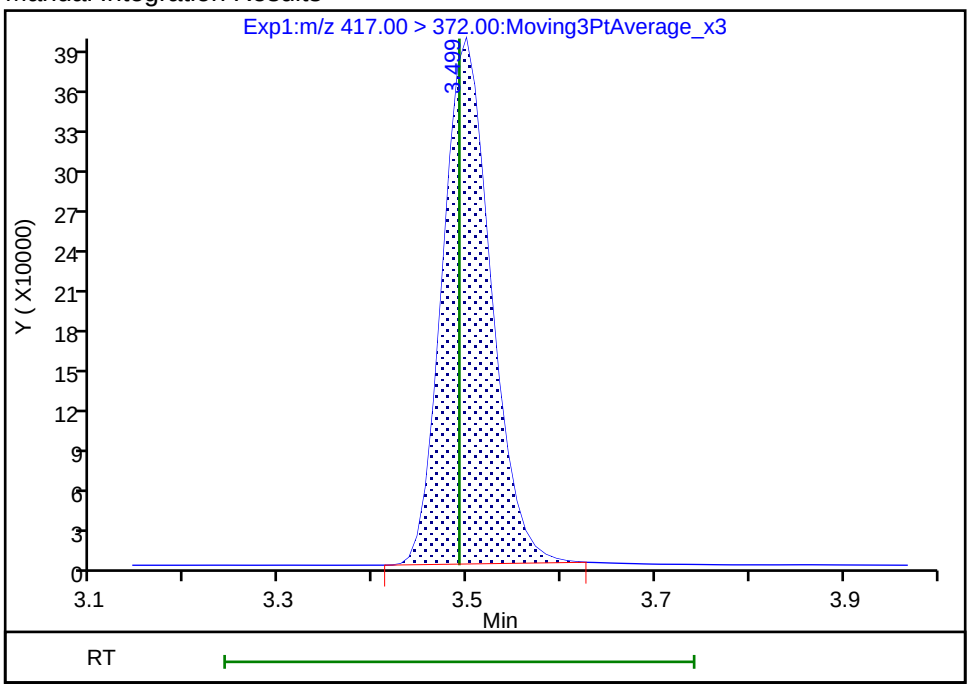
Processing Integration Results

RT: 3.50
Area: 1427870
Amount: 1.220532
Amount Units: ng/ml



Manual Integration Results

RT: 3.50
Area: 1412485
Amount: 1.215375
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:08:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

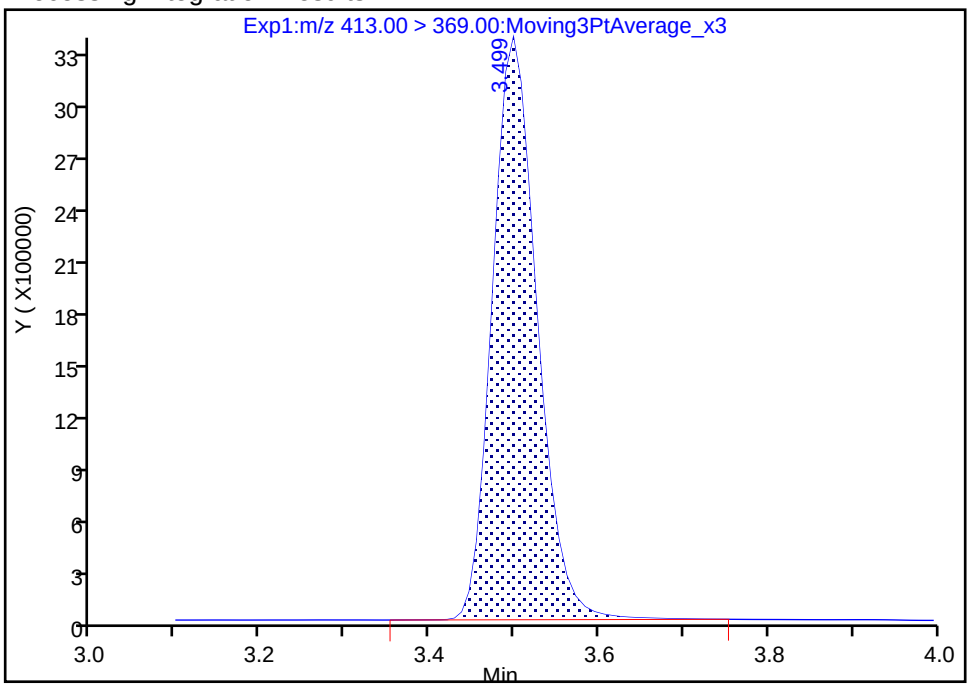
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

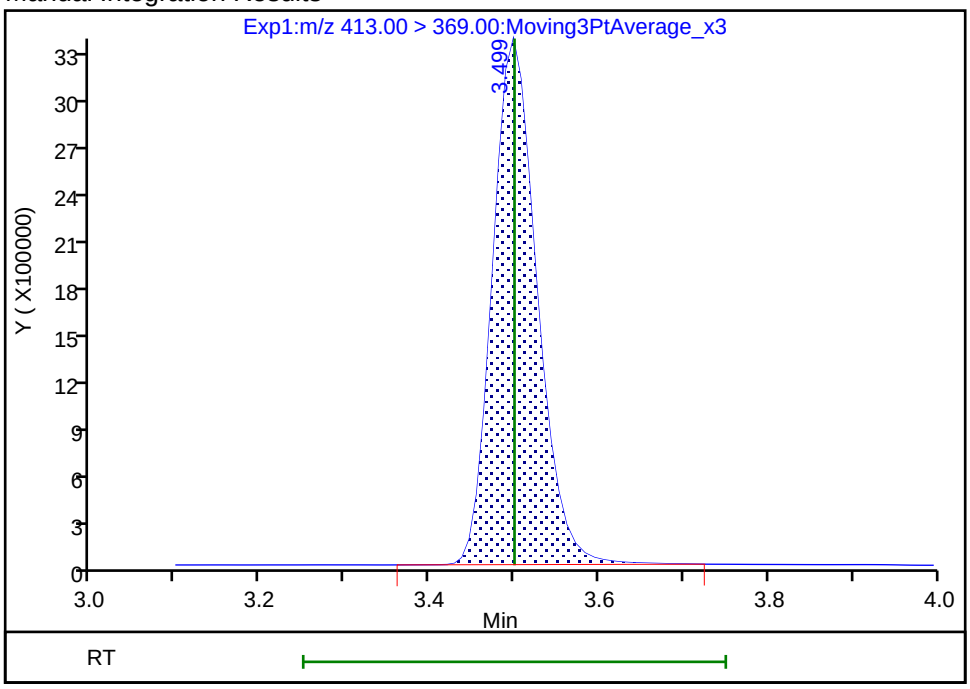
Processing Integration Results

RT: 3.50
Area: 12133428
Amount: 9.585907
Amount Units: ng/ml



Manual Integration Results

RT: 3.50
Area: 12119765
Amount: 9.576836
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:08:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

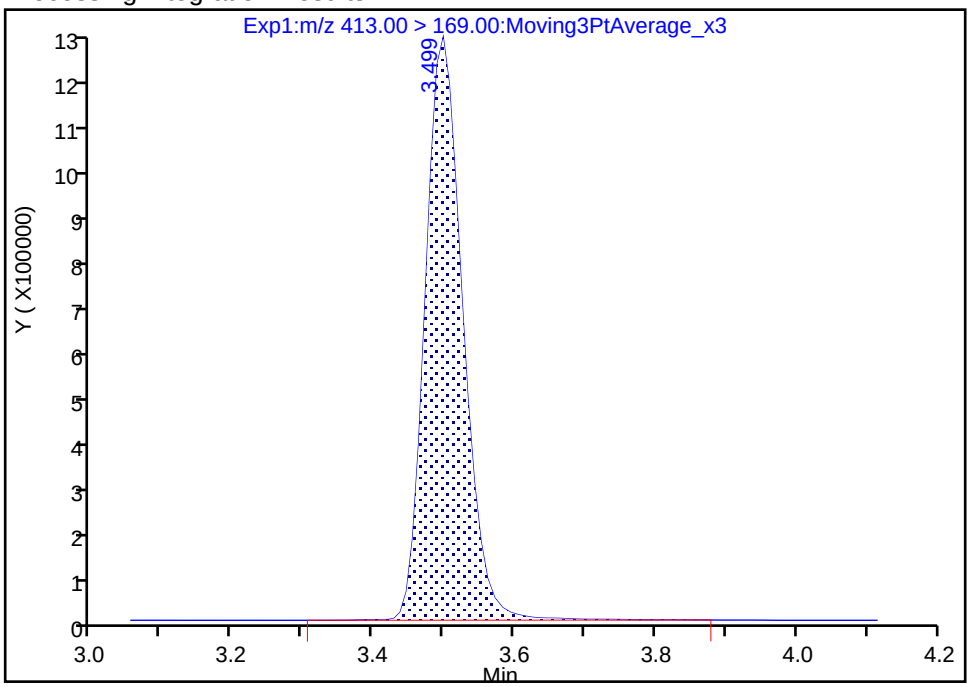
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d				
Injection Date:	05-May-2022 15:54:29	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

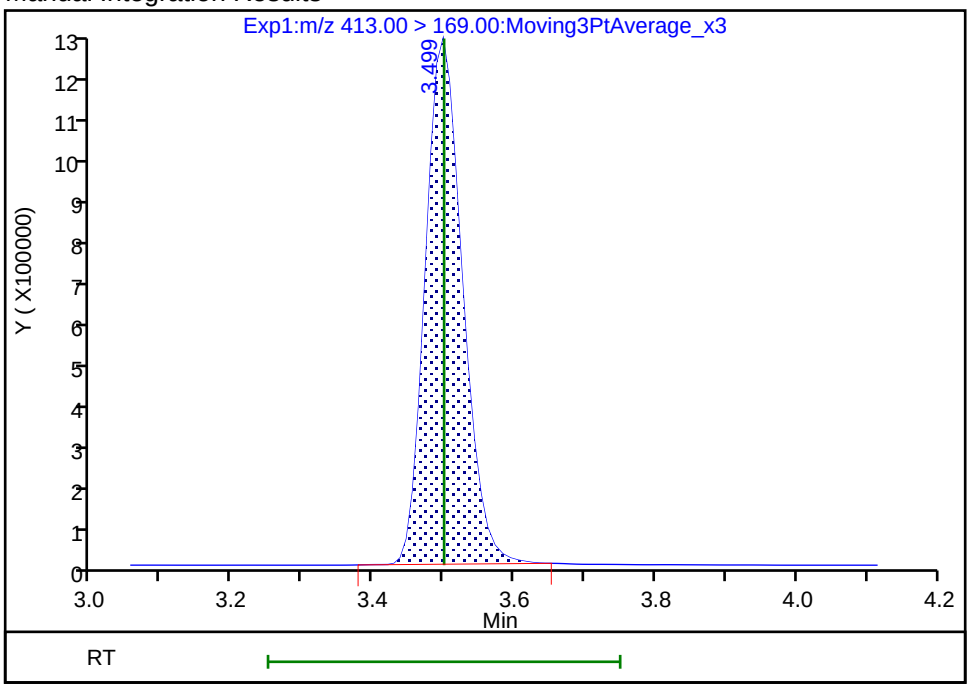
Processing Integration Results

RT: 3.50
Area: 4643547
Amount: 9.585907
Amount Units: ng/ml



Manual Integration Results

RT: 3.50
Area: 4588745
Amount: 9.576836
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:09:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

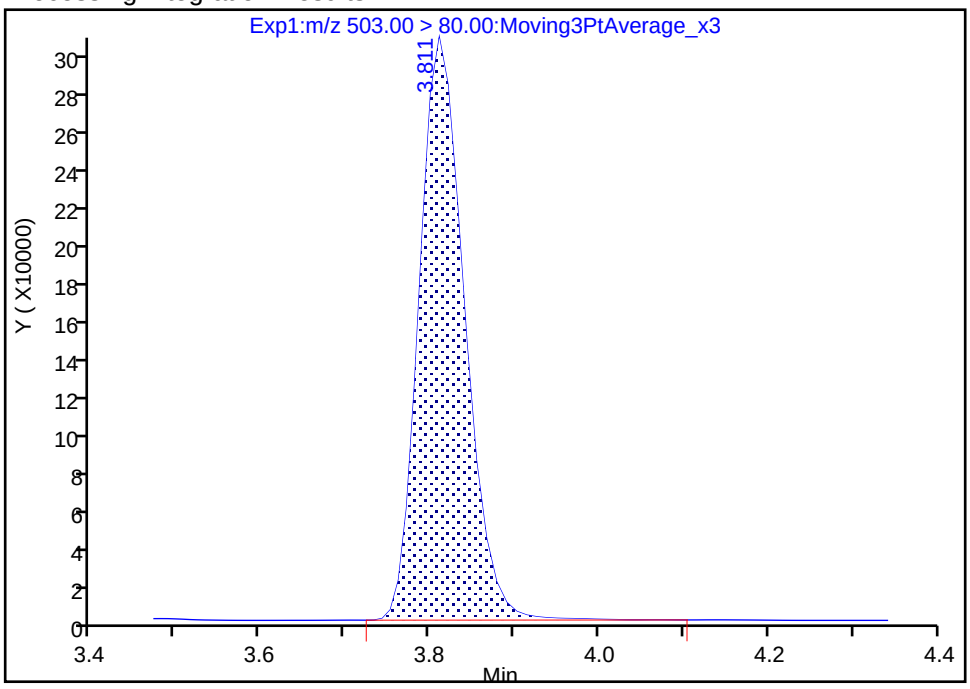
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

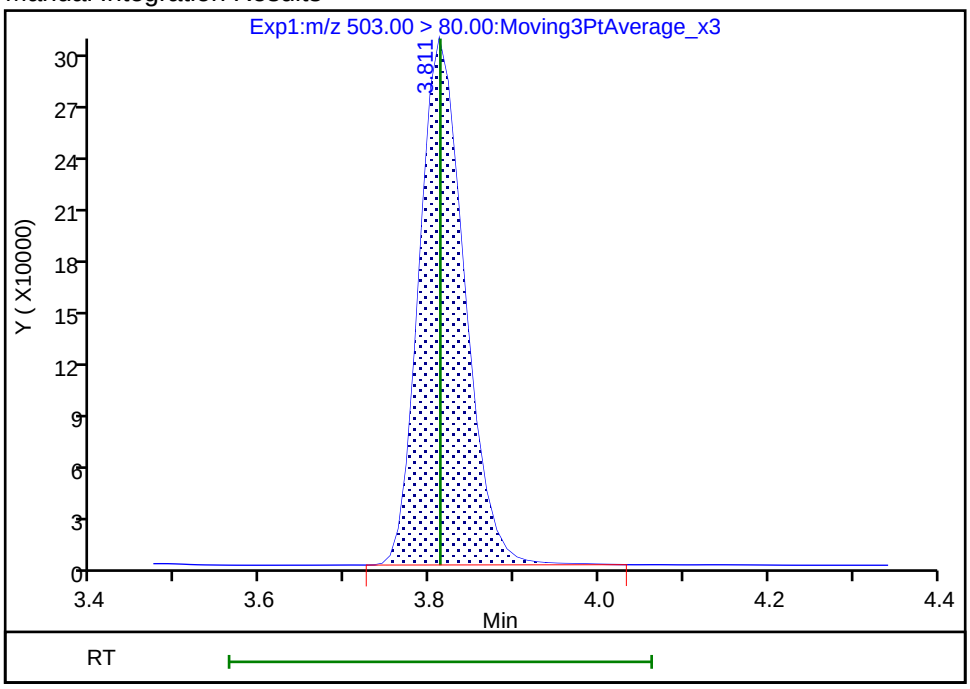
Processing Integration Results

RT: 3.81
Area: 1117256
Amount: 1.251542
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 1115869
Amount: 1.250259
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:09:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

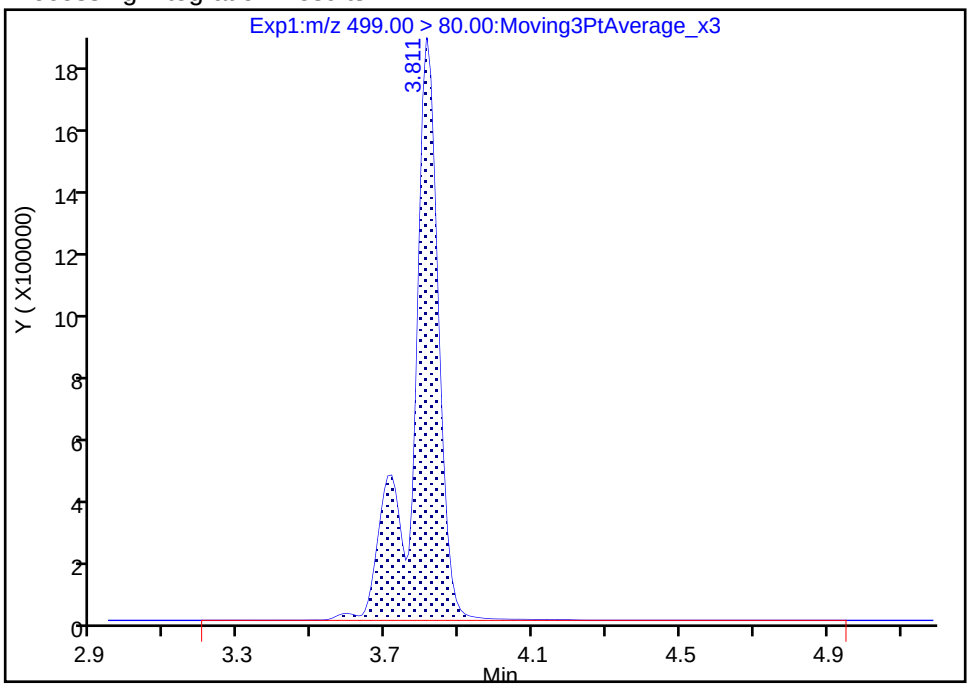
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

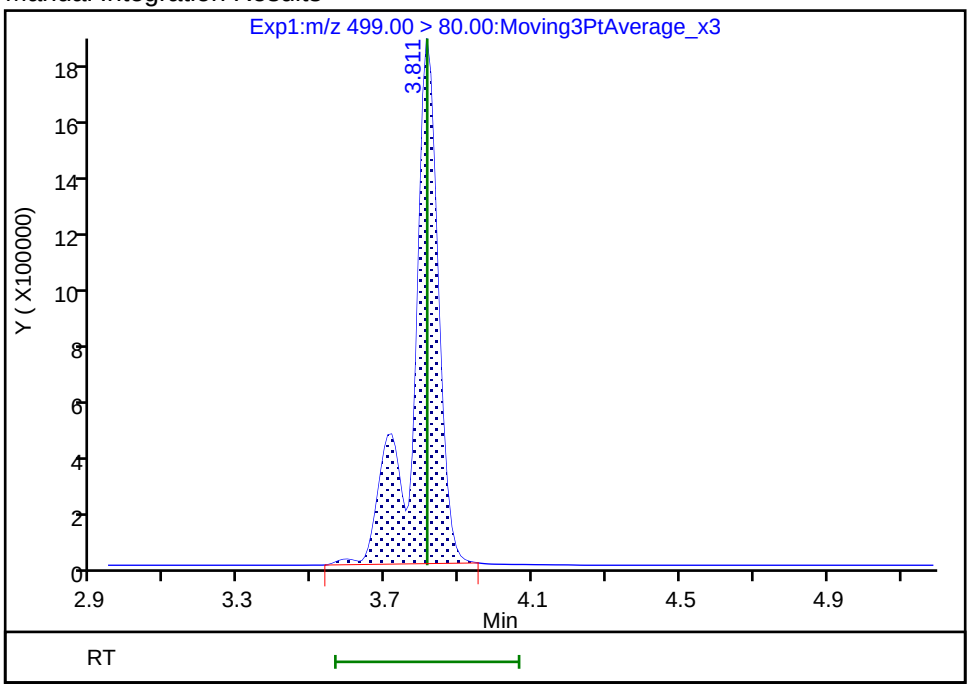
Processing Integration Results

RT: 3.81
Area: 8935579
Amount: 9.332459
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 8781538
Amount: 8.806457
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:09:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

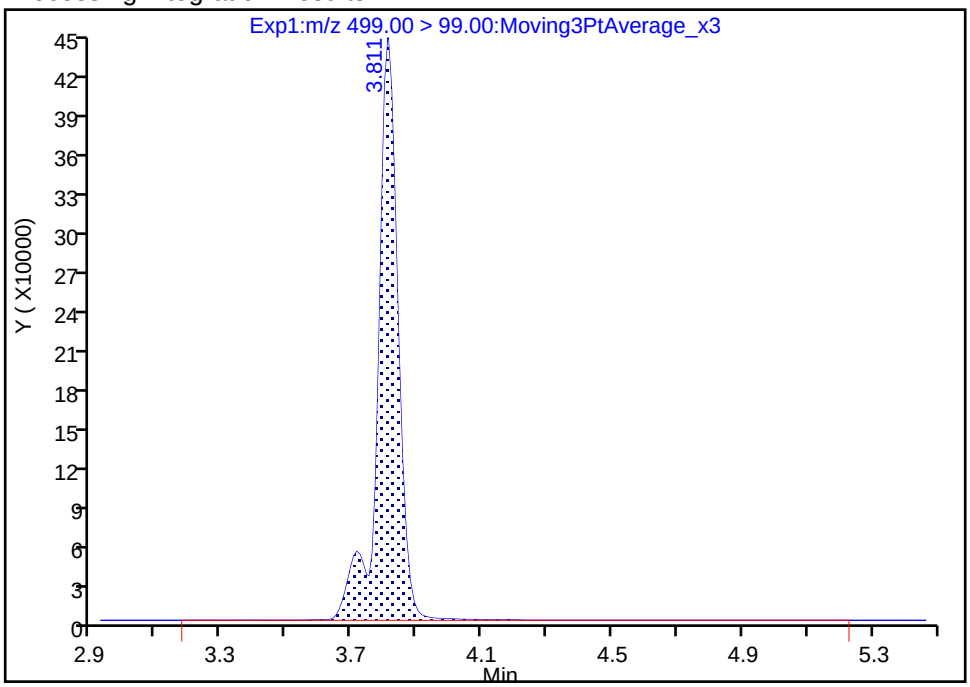
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

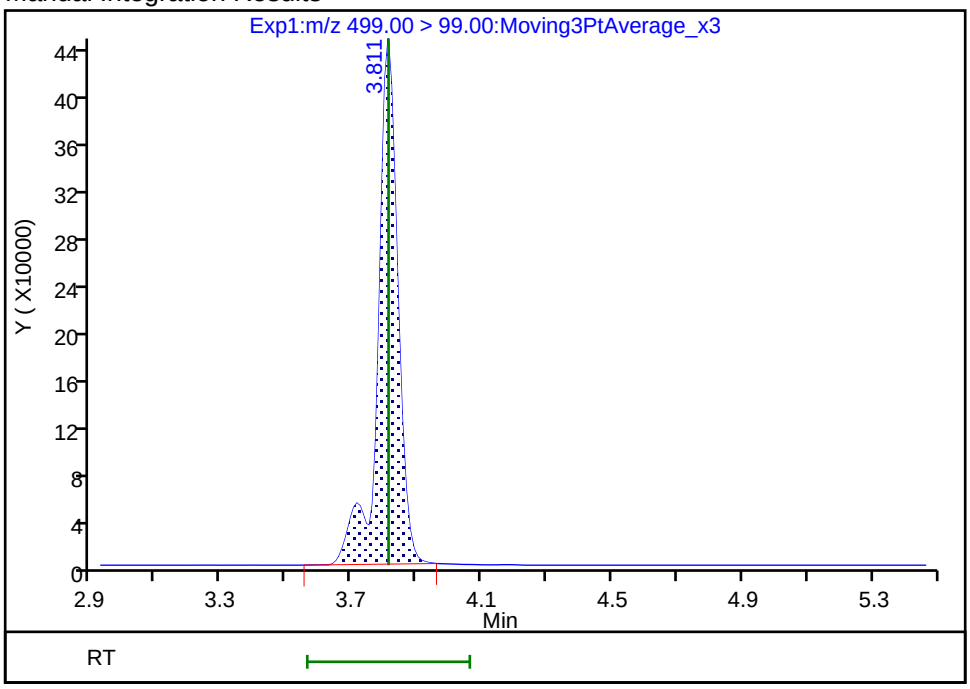
Processing Integration Results

RT: 3.81
Area: 1936100
Amount: 9.332459
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 1907898
Amount: 8.806457
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:09:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

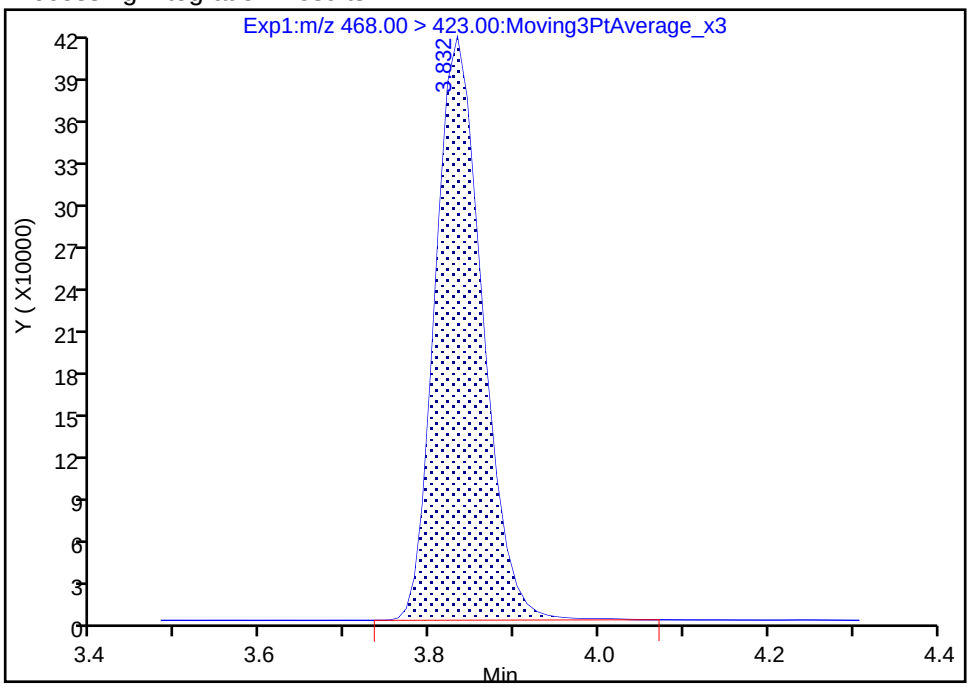
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

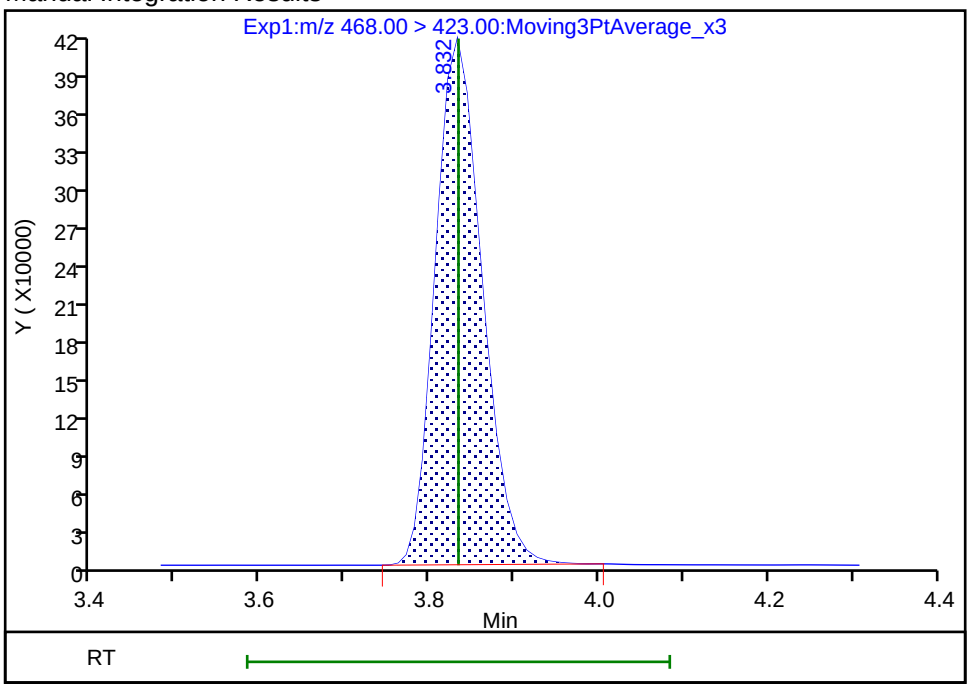
Processing Integration Results

RT: 3.83
Area: 1591531
Amount: 1.259363
Amount Units: ng/ml



Manual Integration Results

RT: 3.83
Area: 1584674
Amount: 1.254845
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:09:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

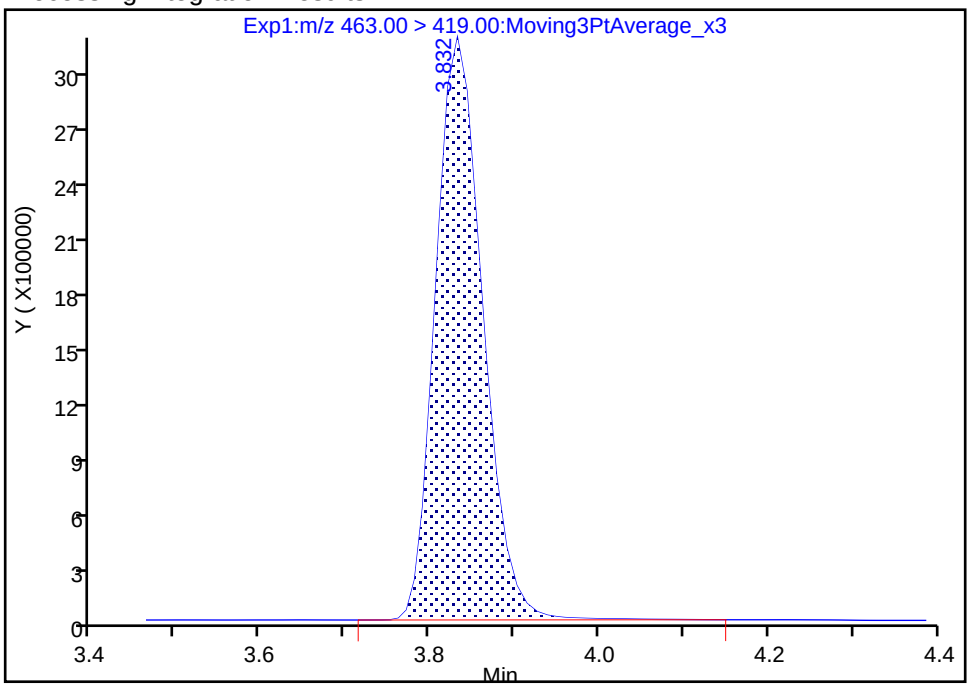
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d				
Injection Date:	05-May-2022 15:54:29	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

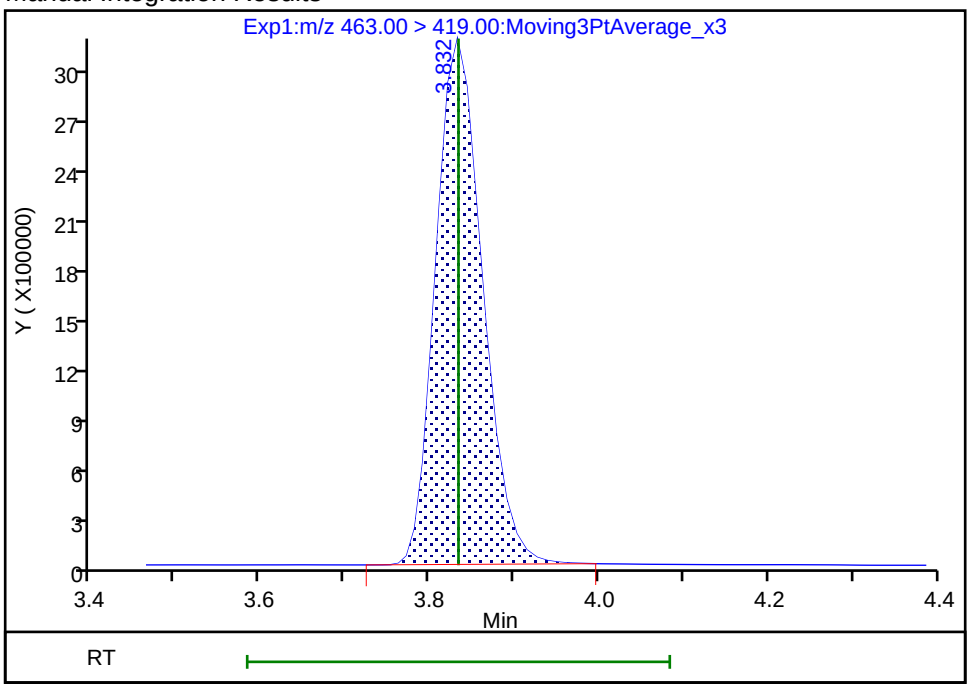
Processing Integration Results

RT: 3.83
Area: 12174794
Amount: 9.918858
Amount Units: ng/ml



Manual Integration Results

RT: 3.83
Area: 12096706
Amount: 9.865700
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:09:33

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

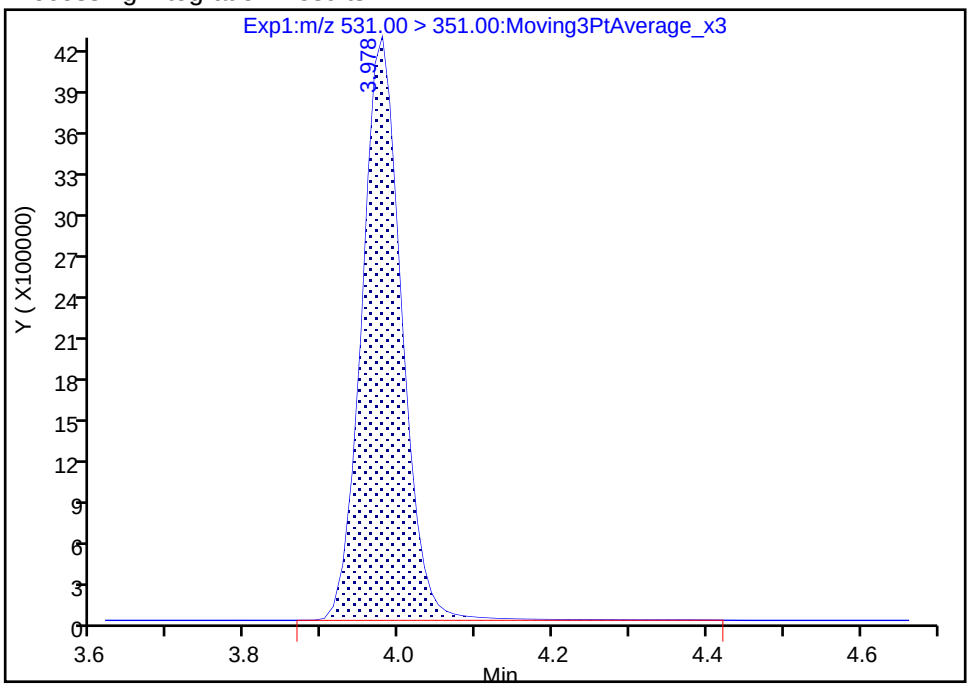
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d				
Injection Date:	05-May-2022 15:54:29	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

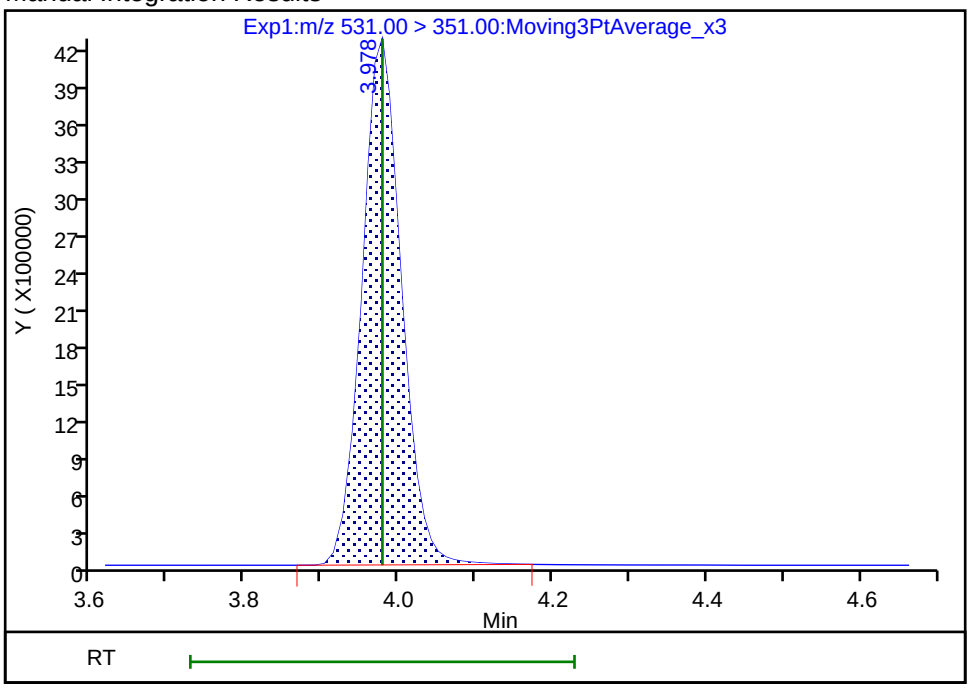
Processing Integration Results

RT: 3.98
Area: 15039716
Amount: 9.117902
Amount Units: ng/ml



Manual Integration Results

RT: 3.98
Area: 14949096
Amount: 9.071876
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:09:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

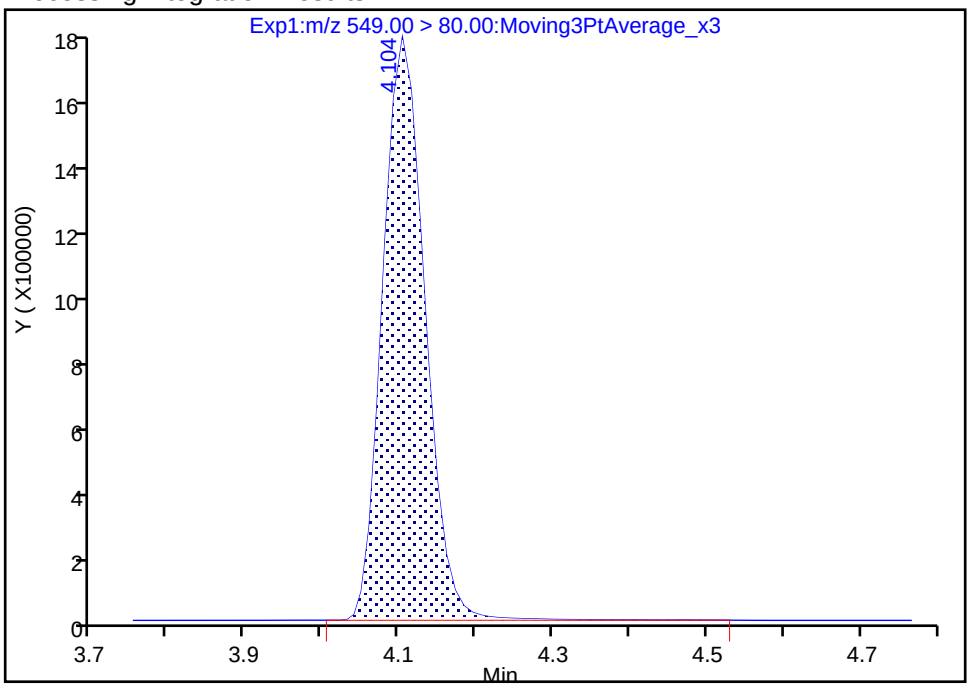
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

68 Perfluorononanesulfonic acid, CAS: 68259-12-1

Signal: 1

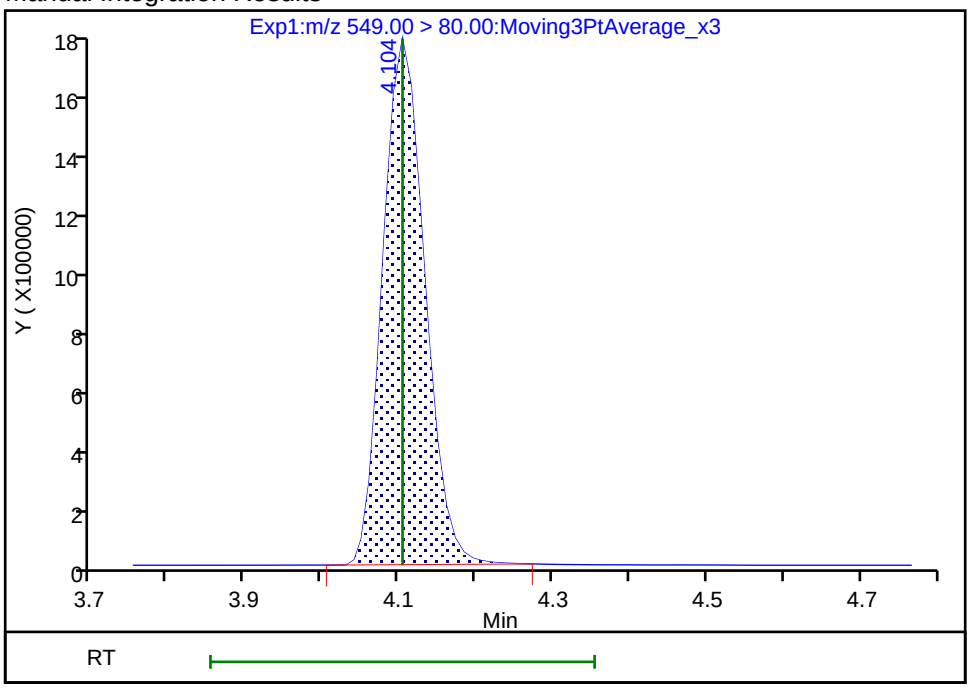
Processing Integration Results

RT: 4.10
Area: 6628667
Amount: 8.766491
Amount Units: ng/ml



Manual Integration Results

RT: 4.10
Area: 6577796
Amount: 8.709386
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:09:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

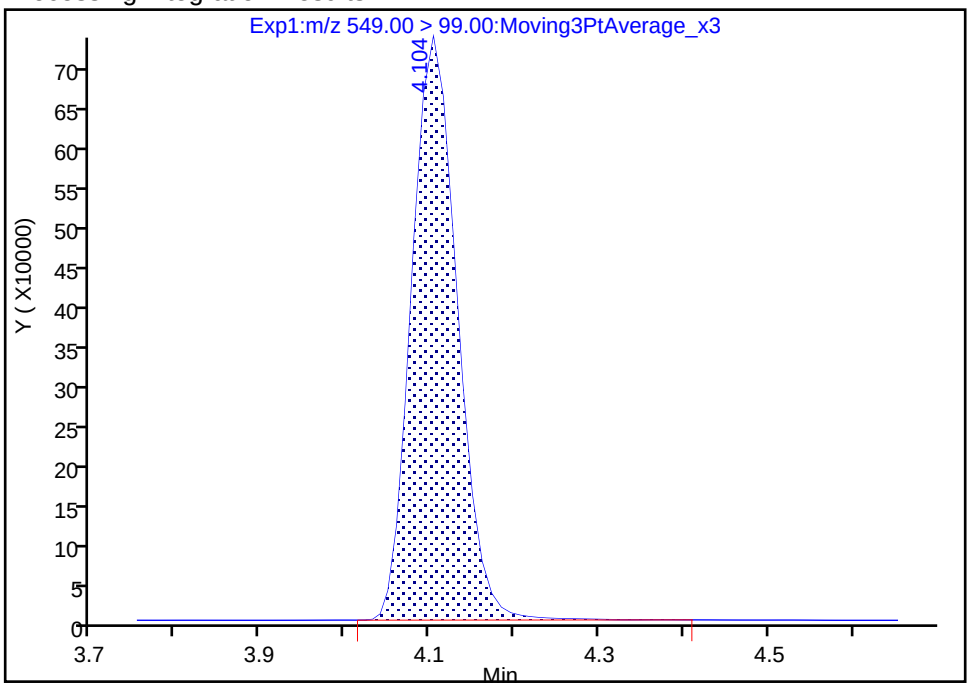
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

68 Perfluorononanesulfonic acid, CAS: 68259-12-1

Signal: 2

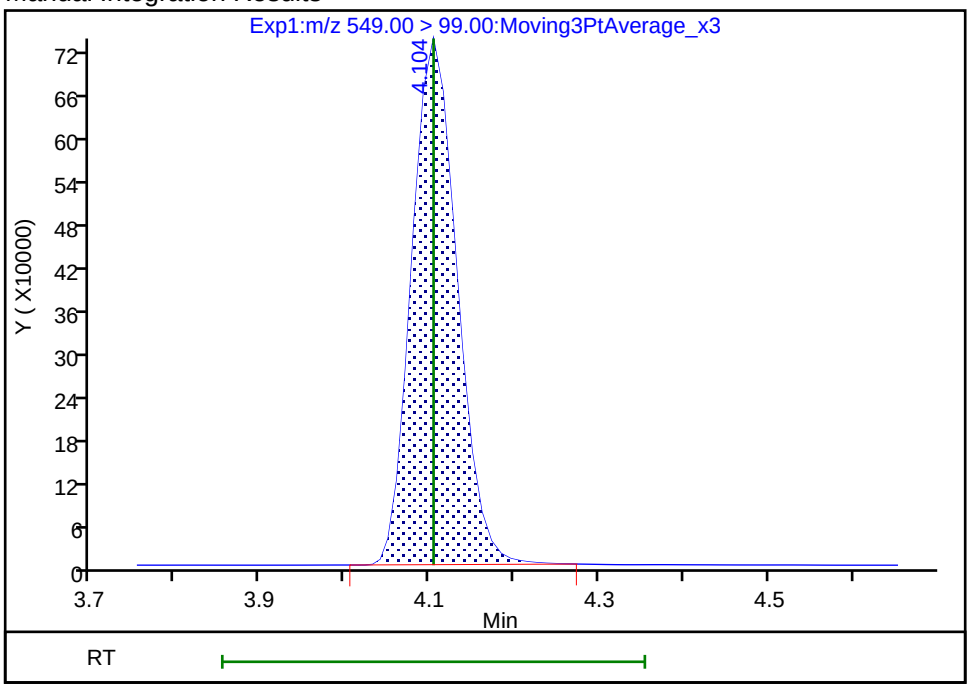
Processing Integration Results

RT: 4.10
Area: 2752086
Amount: 8.766491
Amount Units: ng/ml



Manual Integration Results

RT: 4.10
Area: 2738866
Amount: 8.709386
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:09:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

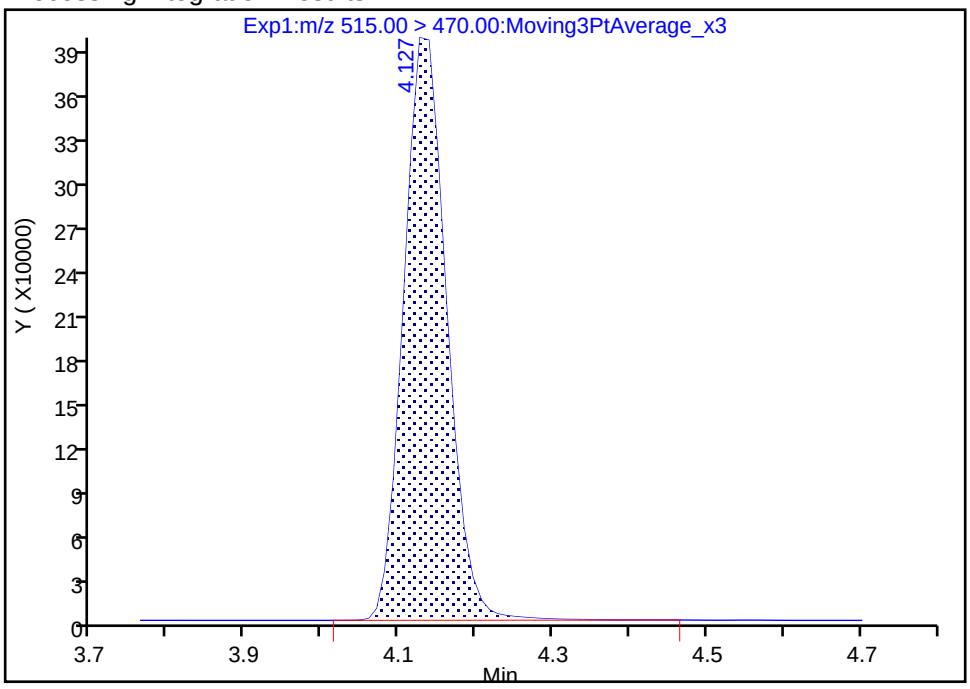
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

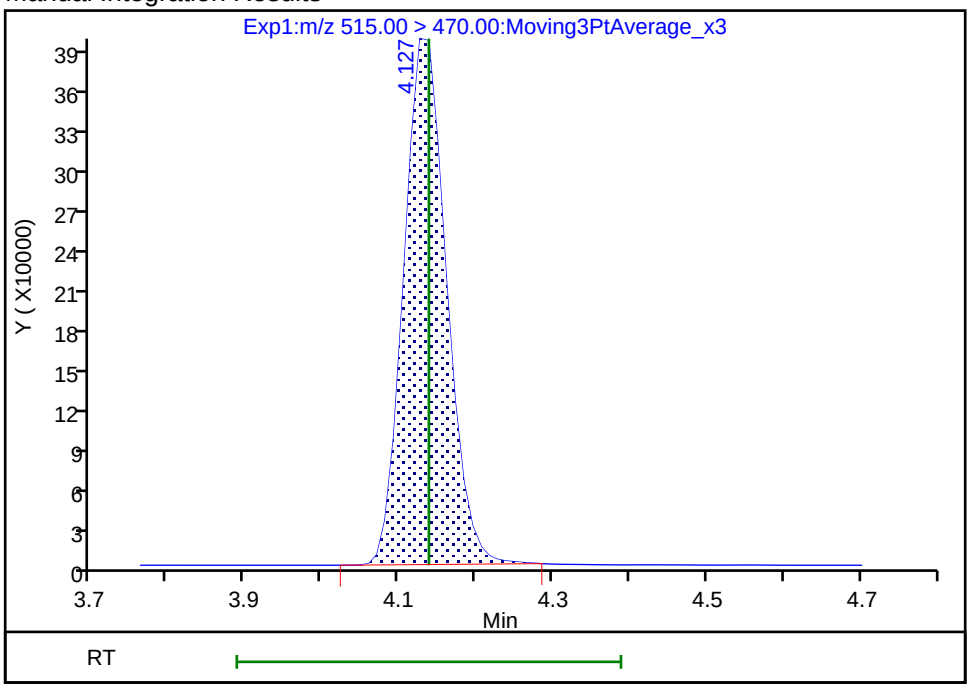
Processing Integration Results

RT: 4.13
Area: 1518267
Amount: 1.247064
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 1507228
Amount: 1.239495
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:09:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

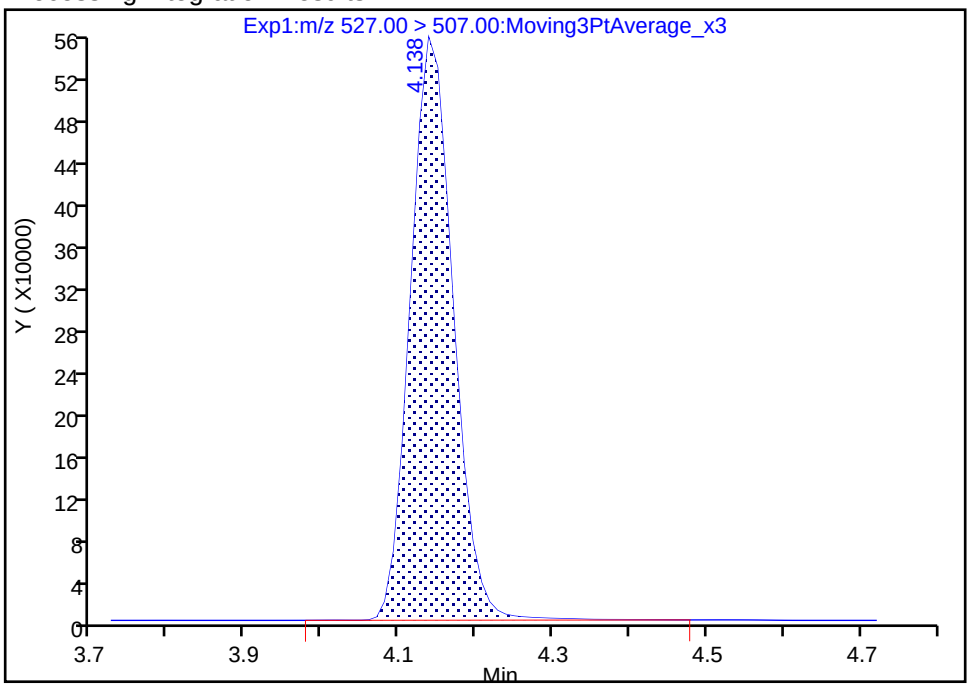
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

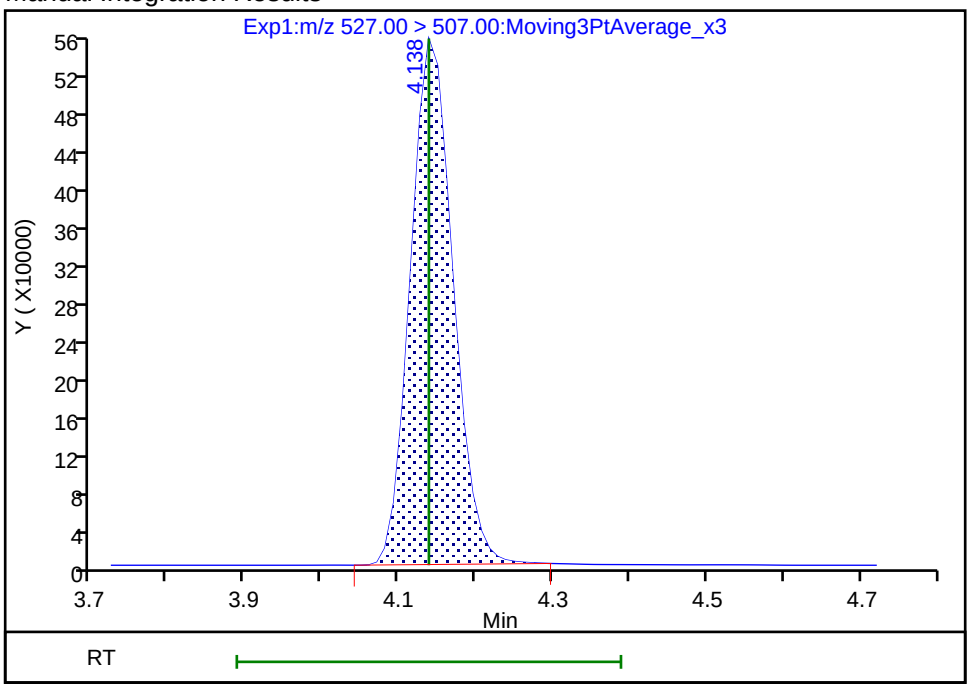
Processing Integration Results

RT: 4.14
Area: 2150830
Amount: 9.141508
Amount Units: ng/ml



Manual Integration Results

RT: 4.14
Area: 2132942
Amount: 9.077487
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:10:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

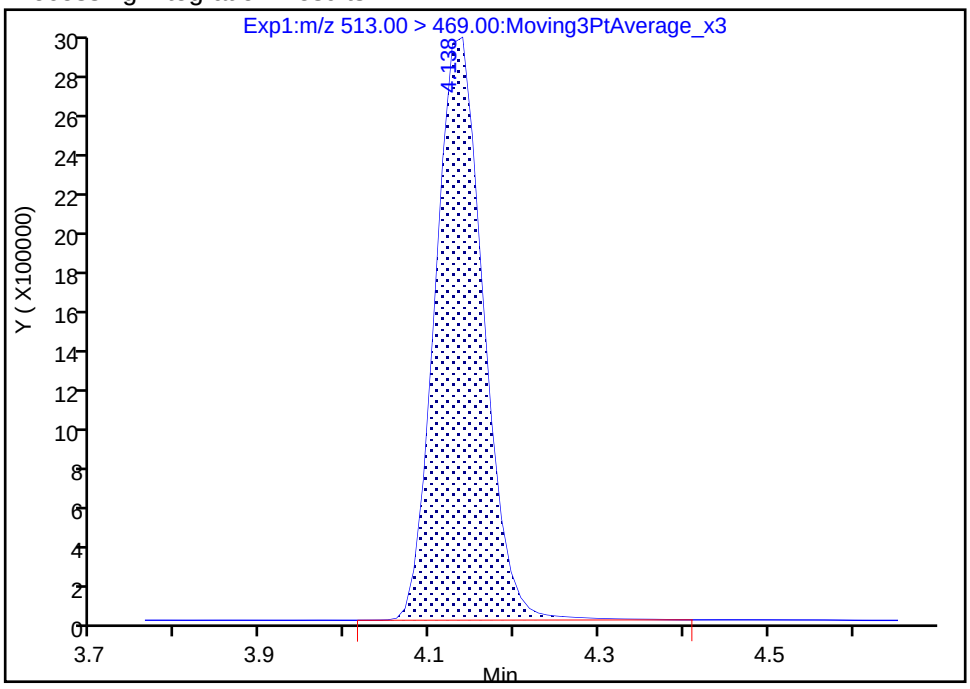
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

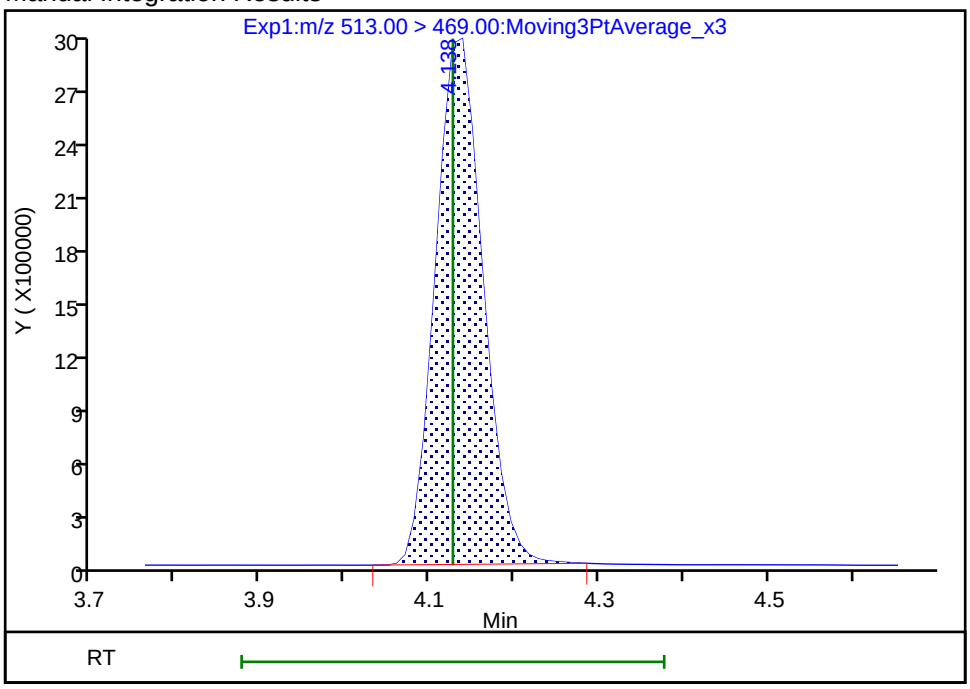
Processing Integration Results

RT: 4.14
Area: 11715381
Amount: 9.052666
Amount Units: ng/ml



Manual Integration Results

RT: 4.14
Area: 11622472
Amount: 9.047557
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:09:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

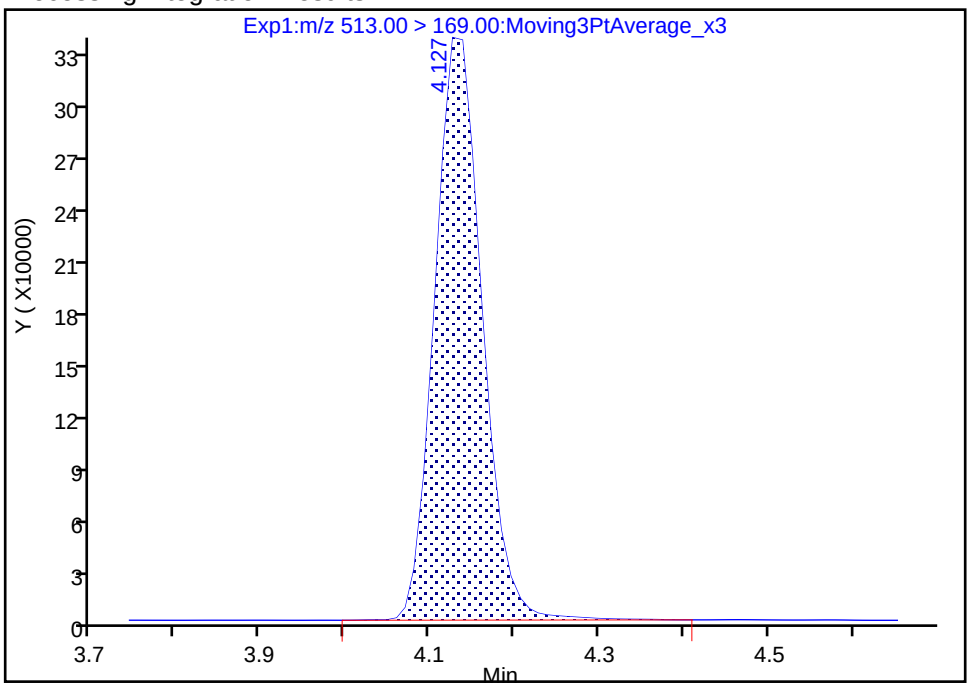
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

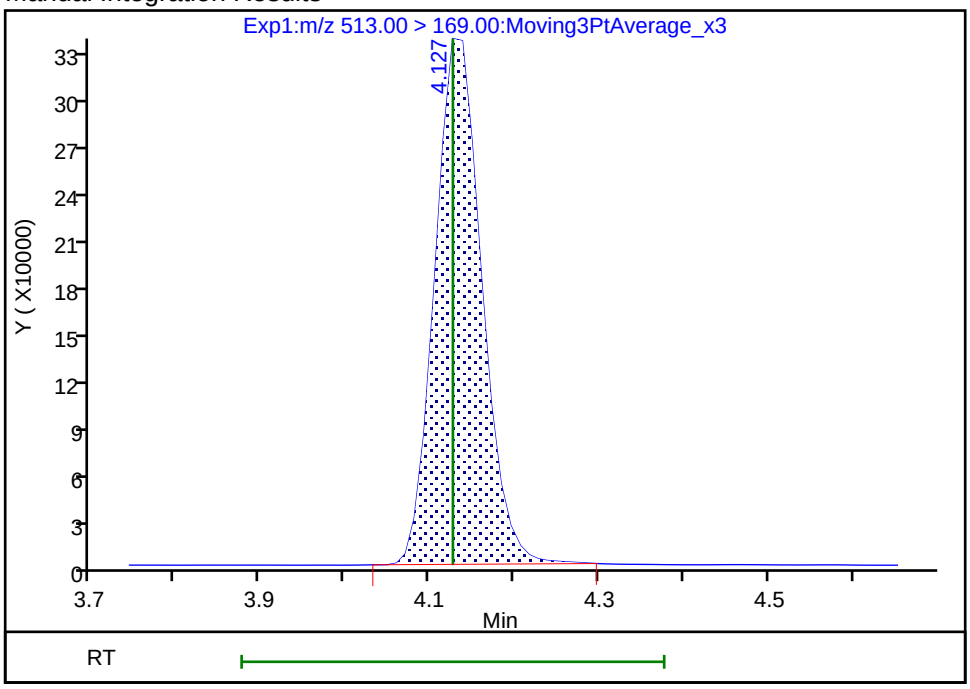
Processing Integration Results

RT: 4.13
Area: 1291889
Amount: 9.052666
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 1281368
Amount: 9.047557
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:09:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

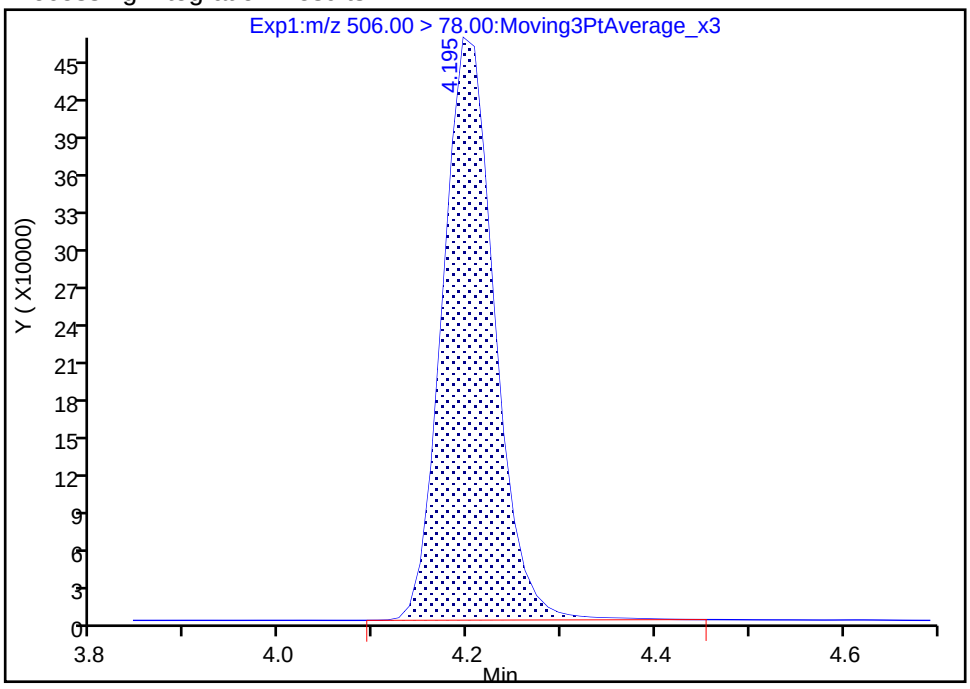
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

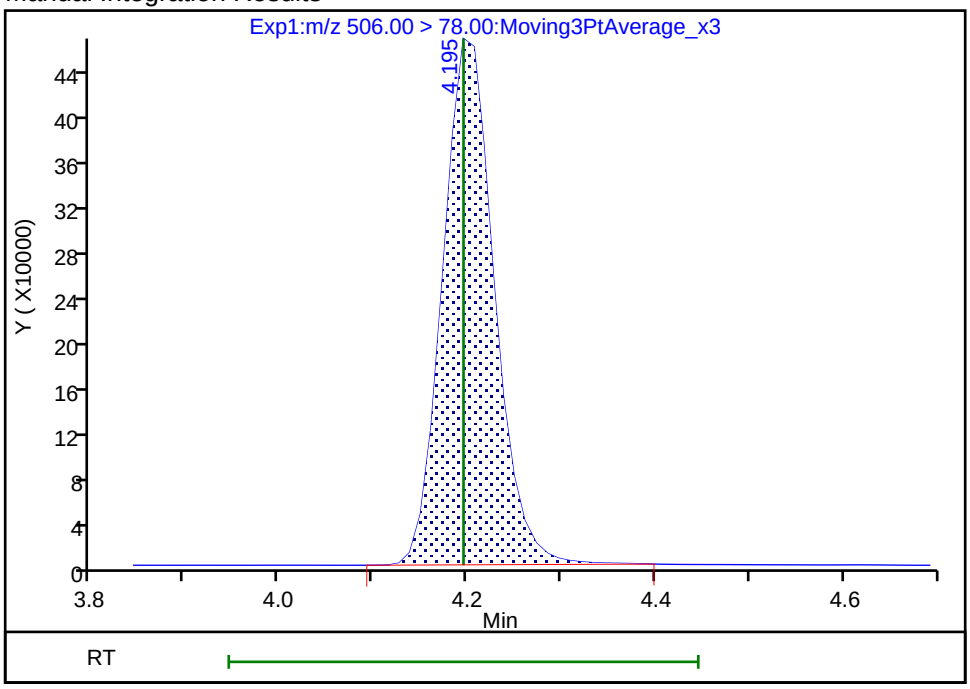
Processing Integration Results

RT: 4.20
Area: 1774751
Amount: 1.325882
Amount Units: ng/ml



Manual Integration Results

RT: 4.20
Area: 1769412
Amount: 1.322597
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:10:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

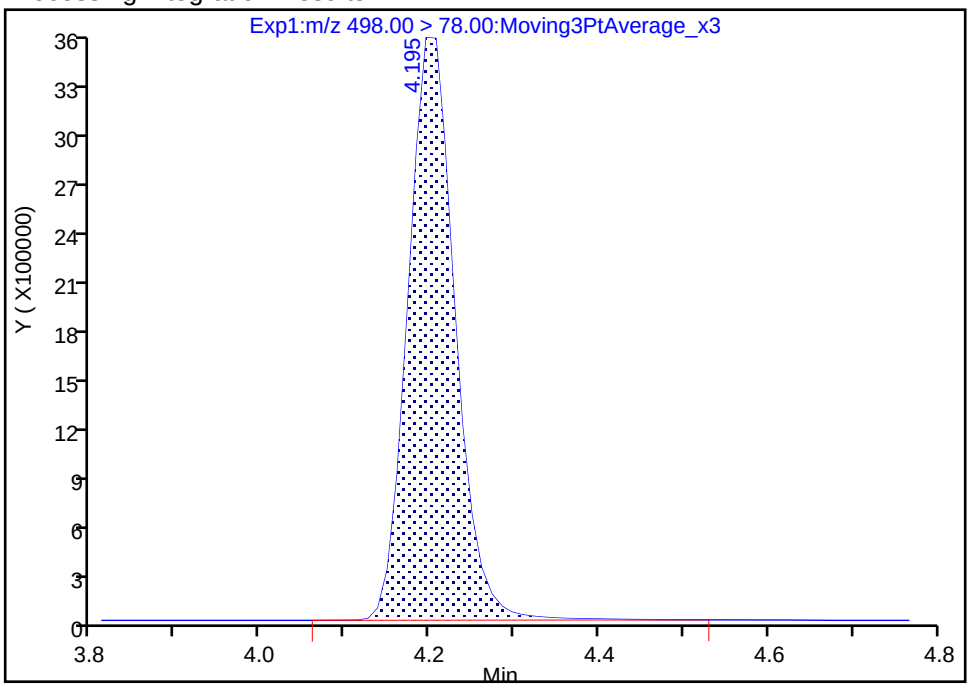
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

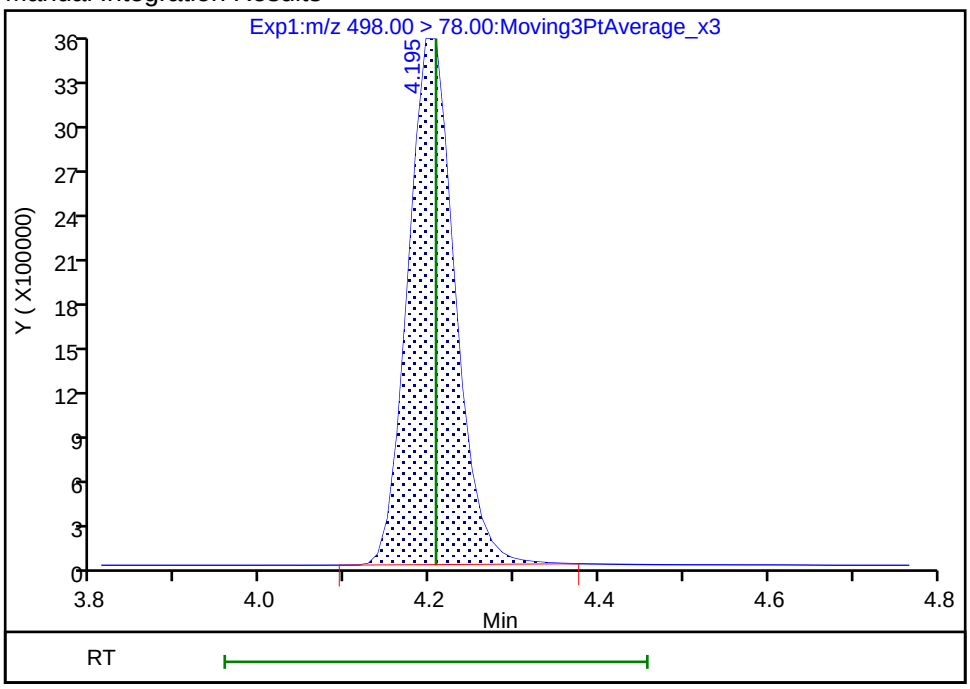
Processing Integration Results

RT: 4.20
Area: 13814656
Amount: 9.607279
Amount Units: ng/ml



Manual Integration Results

RT: 4.20
Area: 13720217
Amount: 9.552058
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:10:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

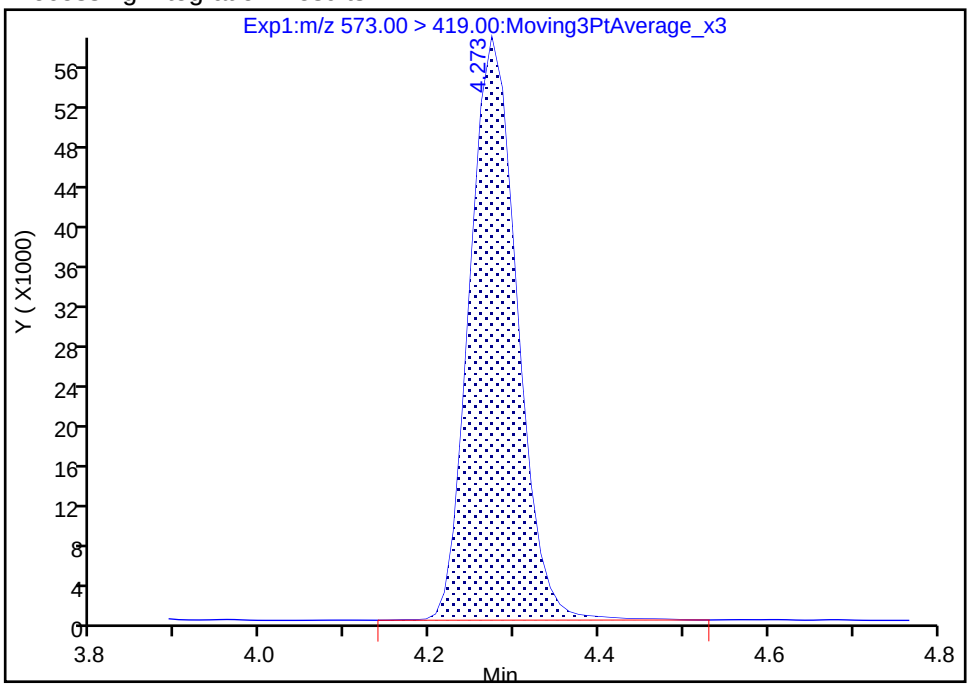
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d				
Injection Date:	05-May-2022 15:54:29	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

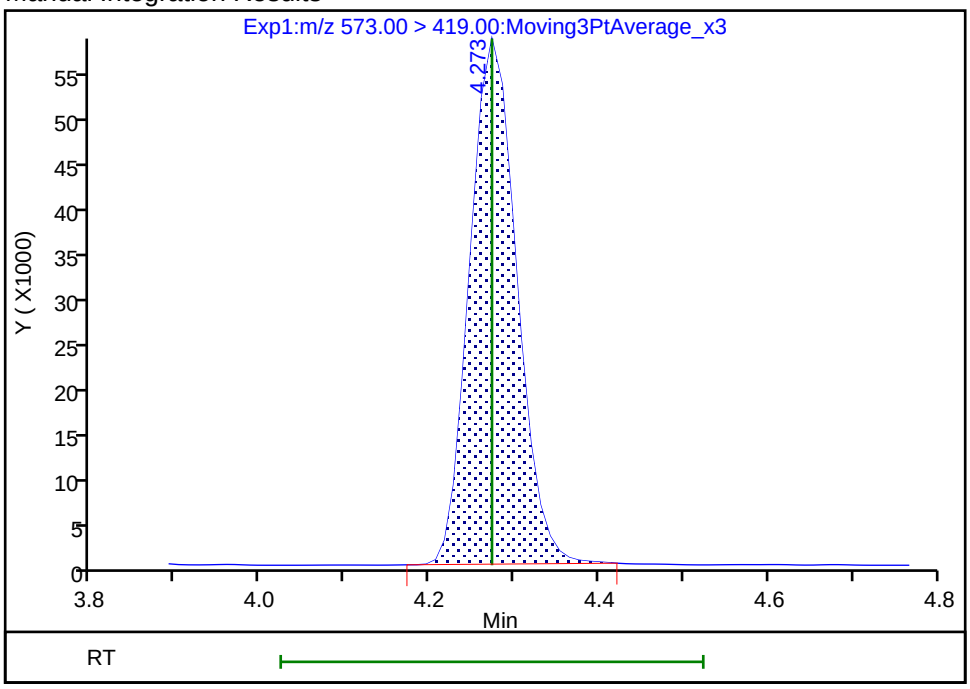
Processing Integration Results

RT: 4.27
Area: 226315
Amount: 1.399568
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 224082
Amount: 1.388315
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:10:18

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

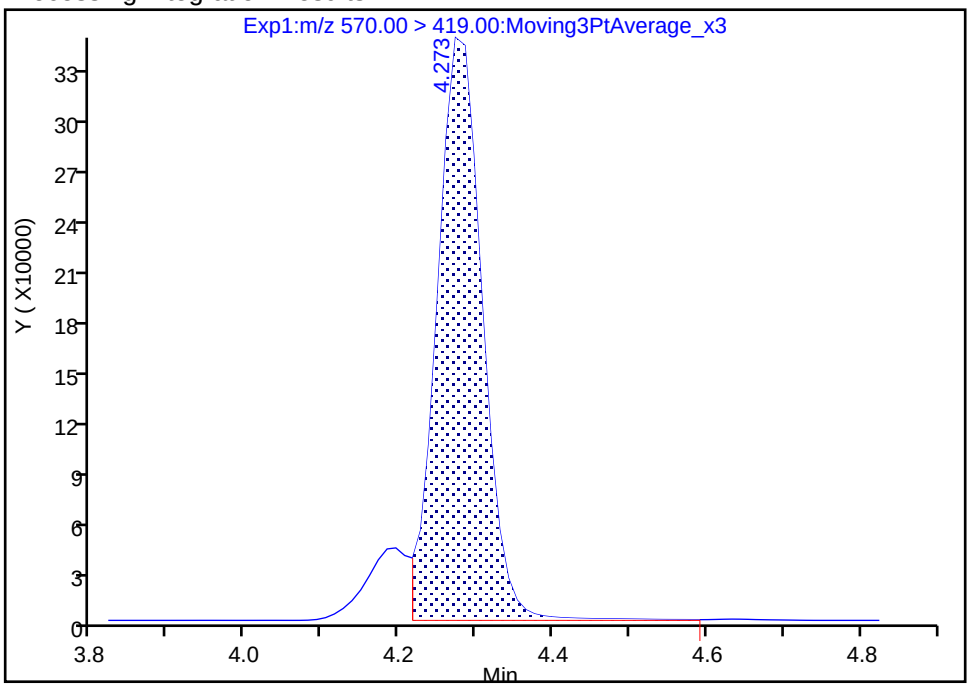
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

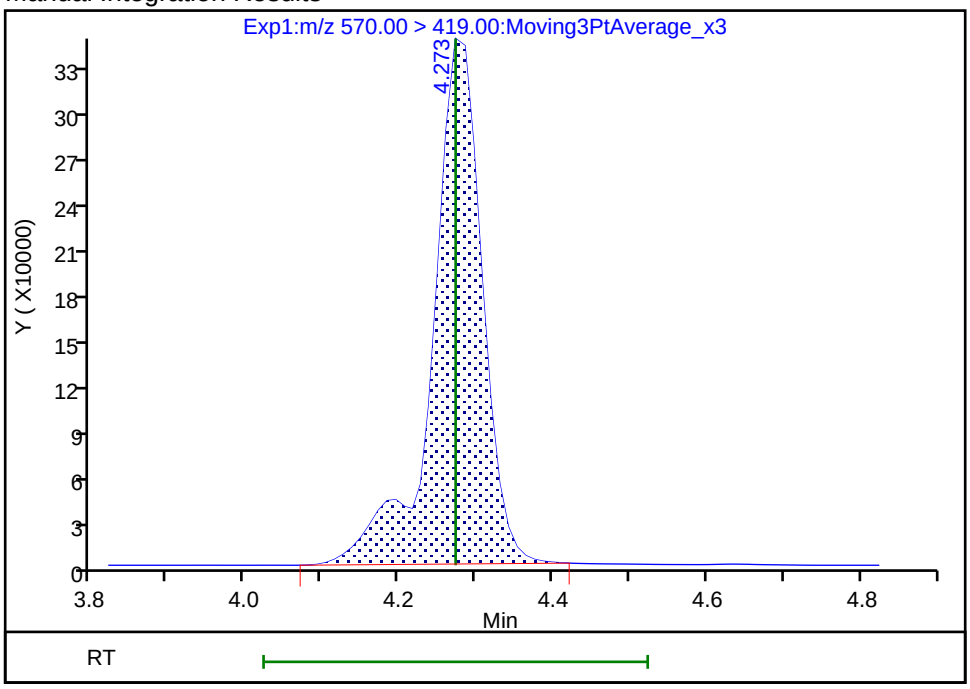
Processing Integration Results

RT: 4.27
Area: 1407282
Amount: 9.688282
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 1552281
Amount: 9.521593
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:10:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

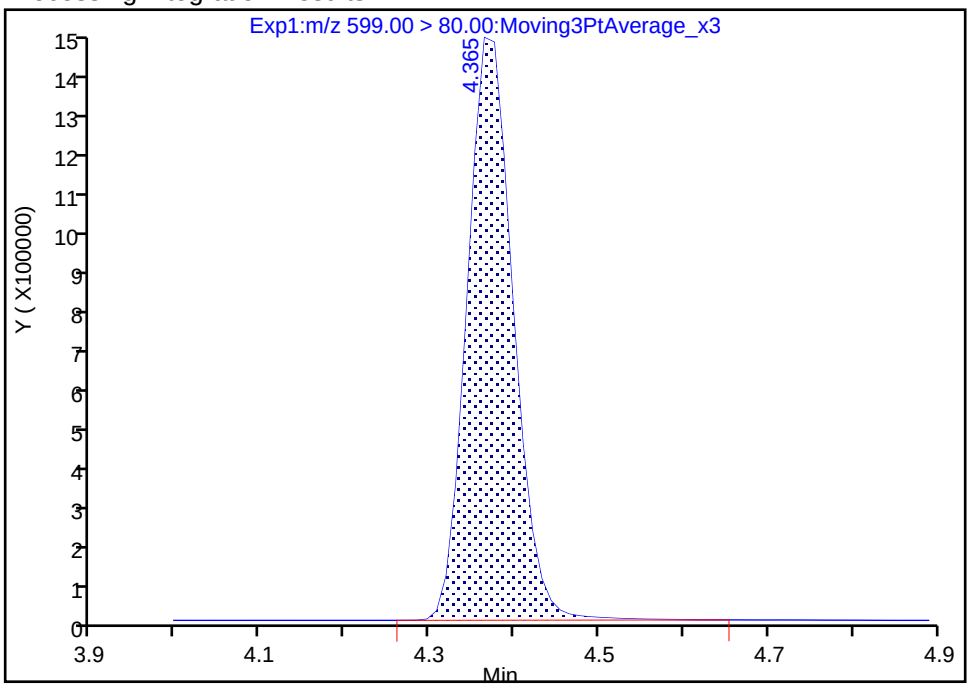
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

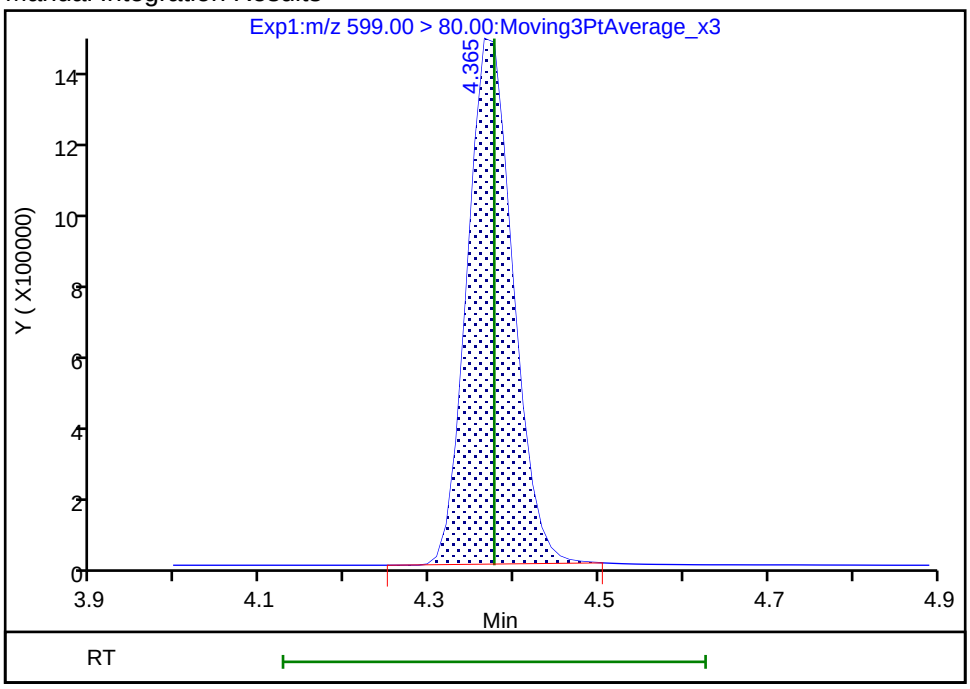
Processing Integration Results

RT: 4.36
Area: 5432326
Amount: 9.415748
Amount Units: ng/ml



Manual Integration Results

RT: 4.36
Area: 5373701
Amount: 9.330526
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:10:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

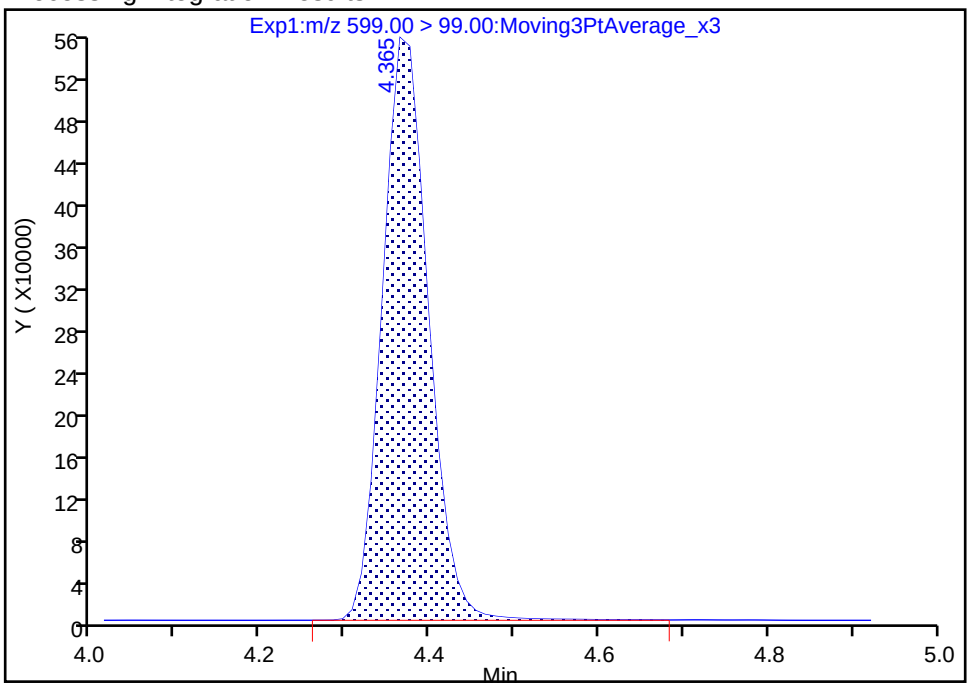
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d				
Injection Date:	05-May-2022 15:54:29	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

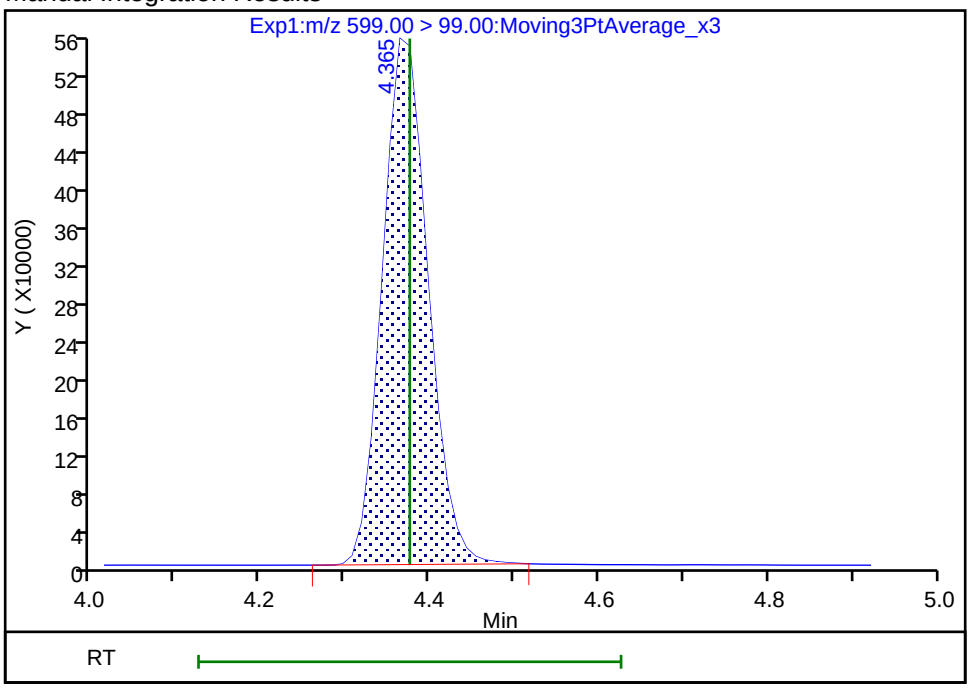
Processing Integration Results

RT: 4.36
Area: 2103884
Amount: 9.415748
Amount Units: ng/ml



Manual Integration Results

RT: 4.36
Area: 2084817
Amount: 9.330526
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:10:34

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

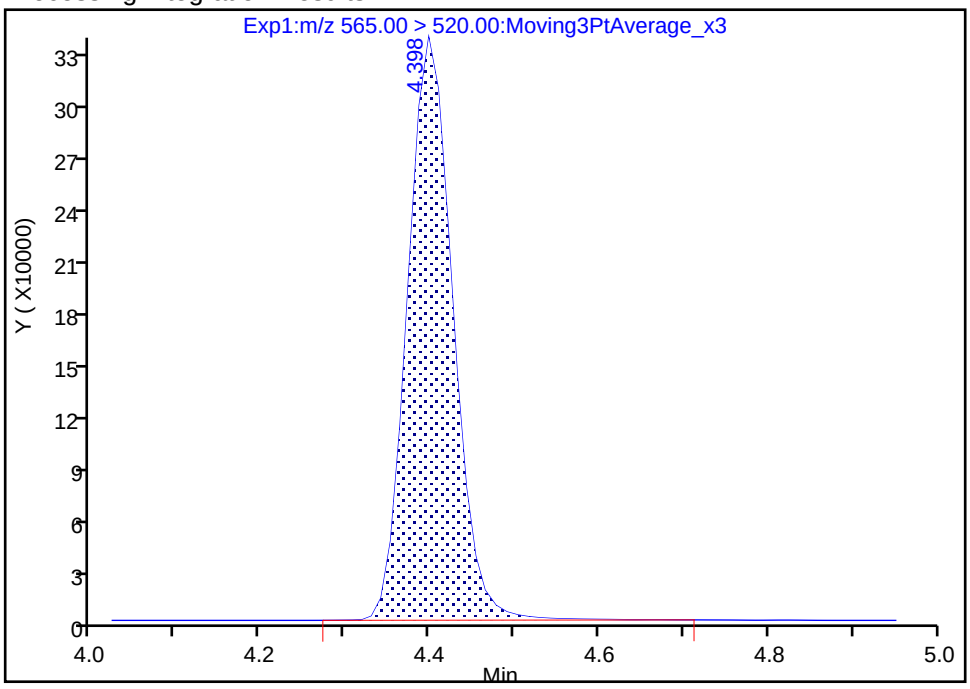
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

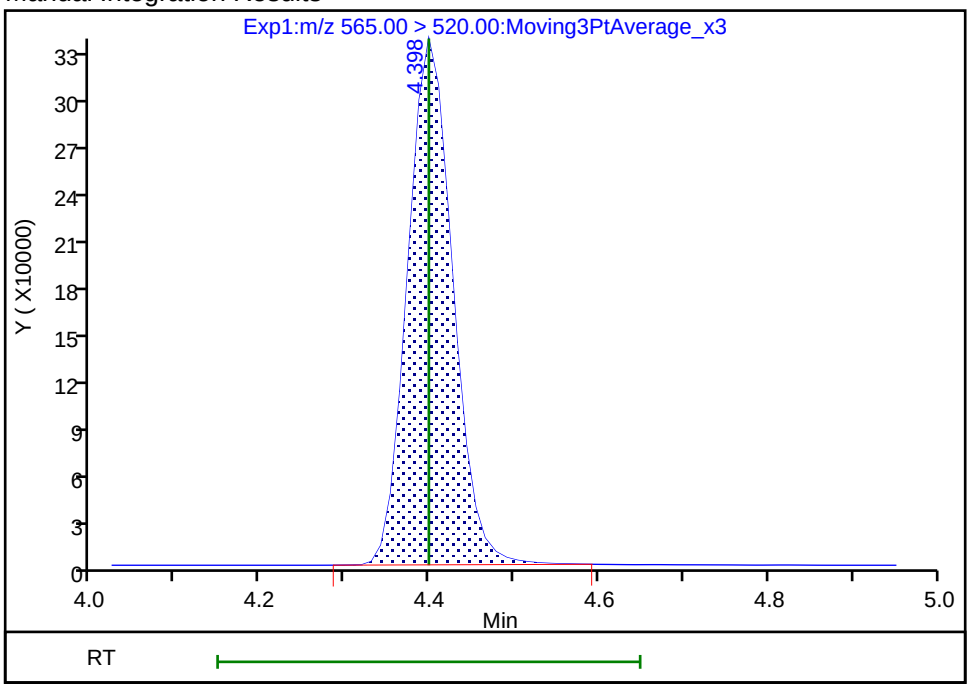
Processing Integration Results

RT: 4.40
Area: 1258232
Amount: 1.287851
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 1253108
Amount: 1.283504
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:10:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

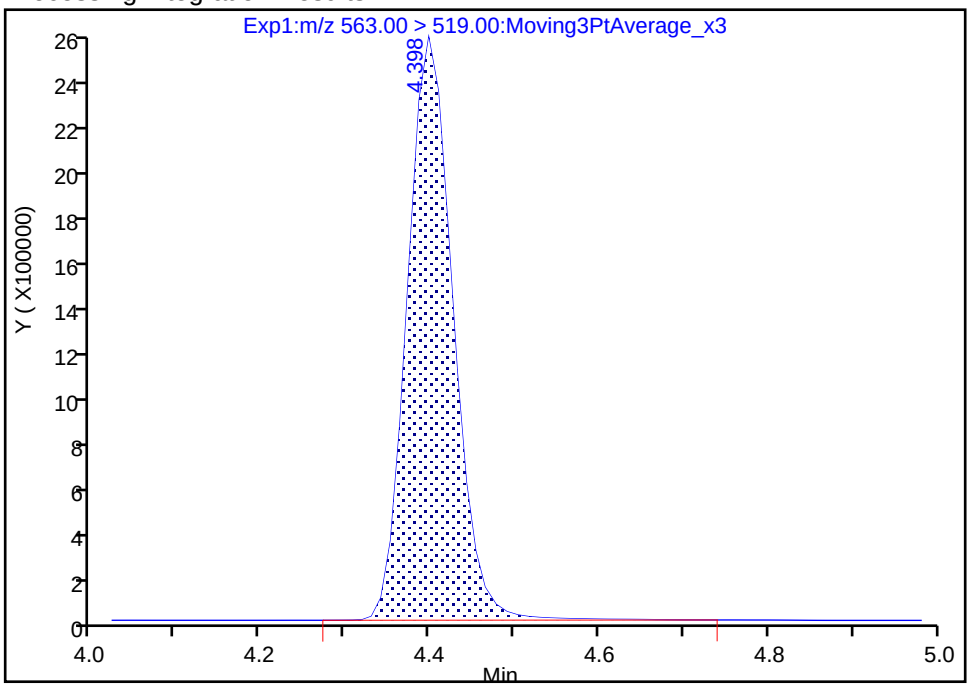
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

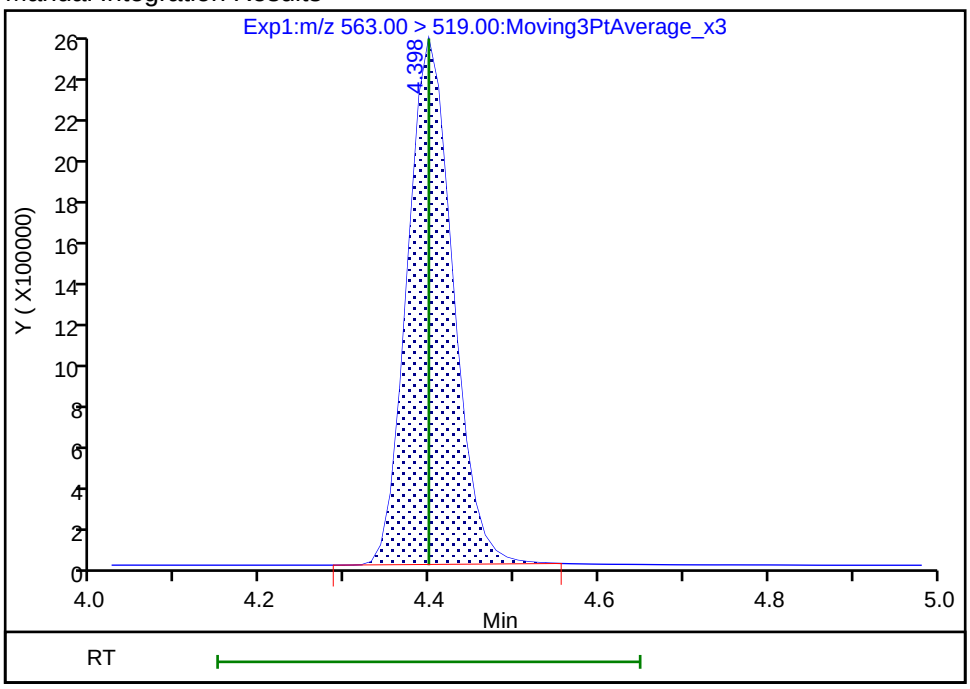
Processing Integration Results

RT: 4.40
Area: 9566765
Amount: 9.215052
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 9479607
Amount: 9.175565
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:10:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

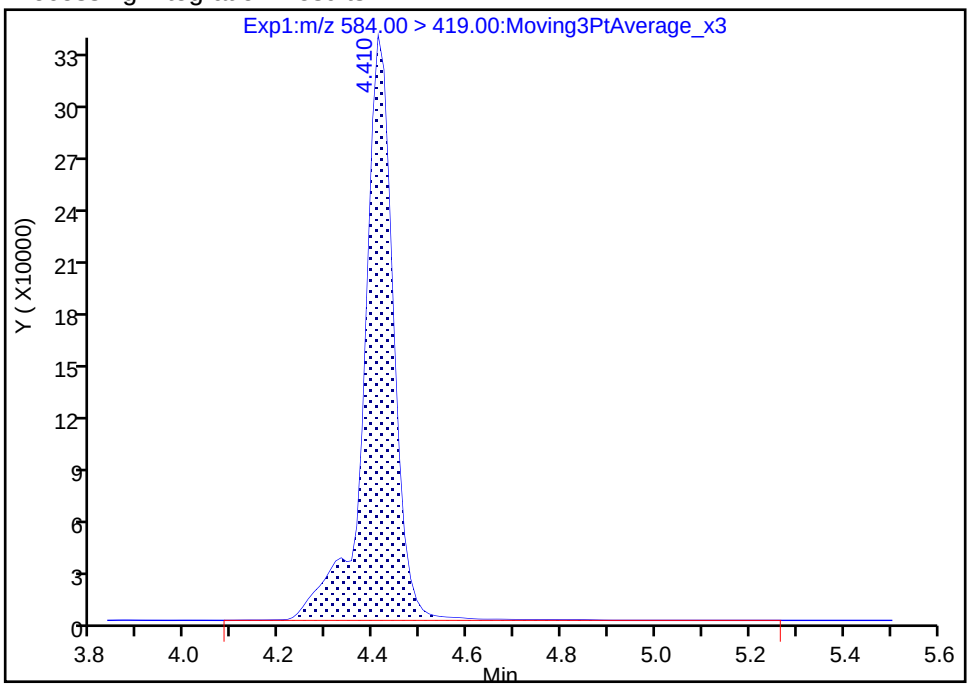
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

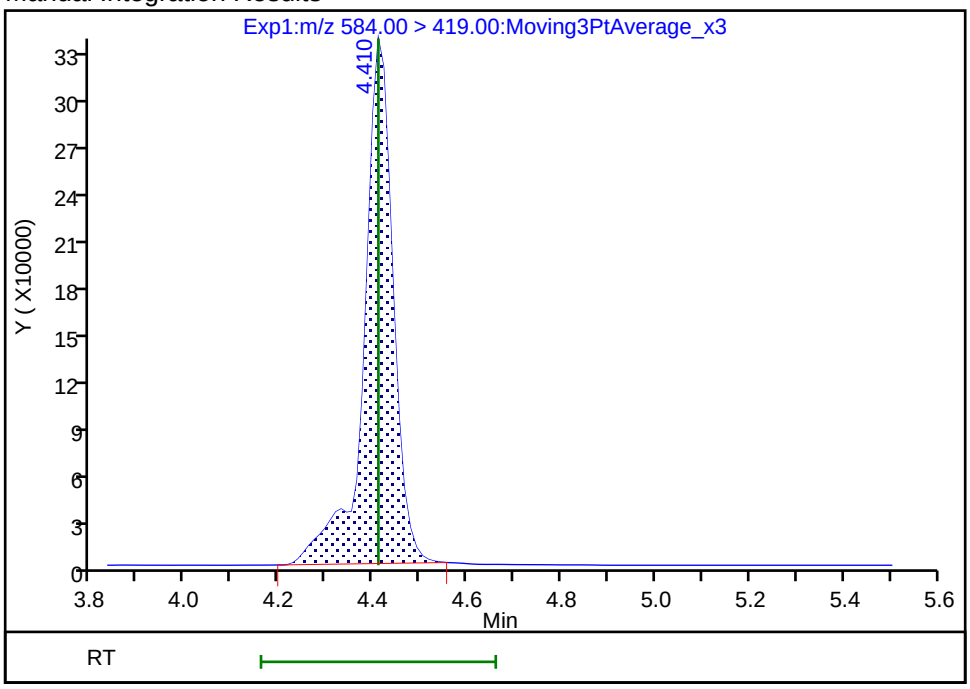
Processing Integration Results

RT: 4.41
Area: 1481166
Amount: 10.089523
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 1449802
Amount: 9.571139
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:10:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

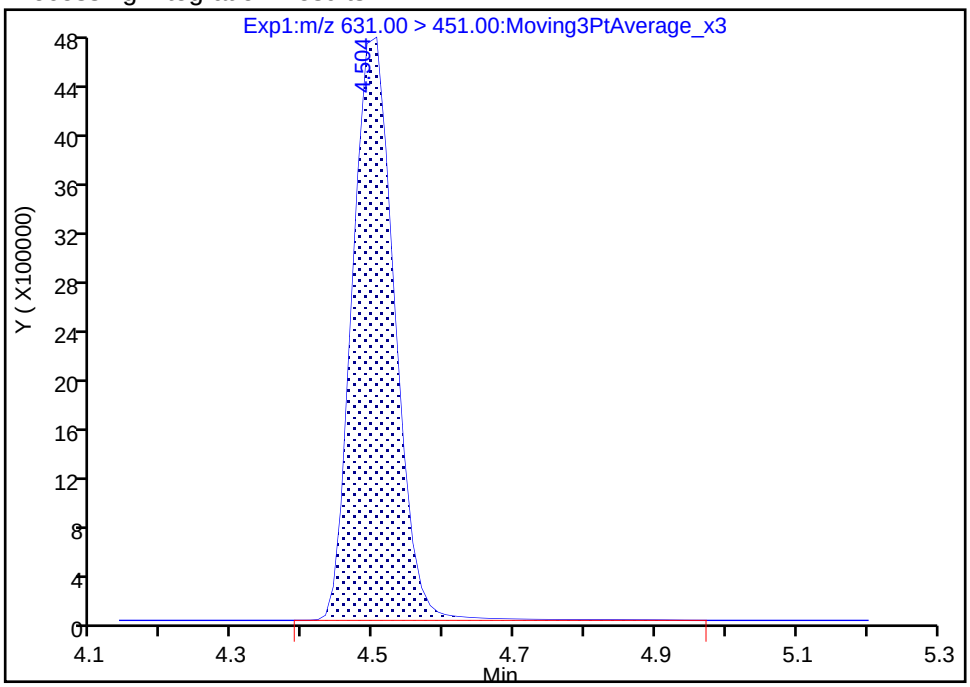
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

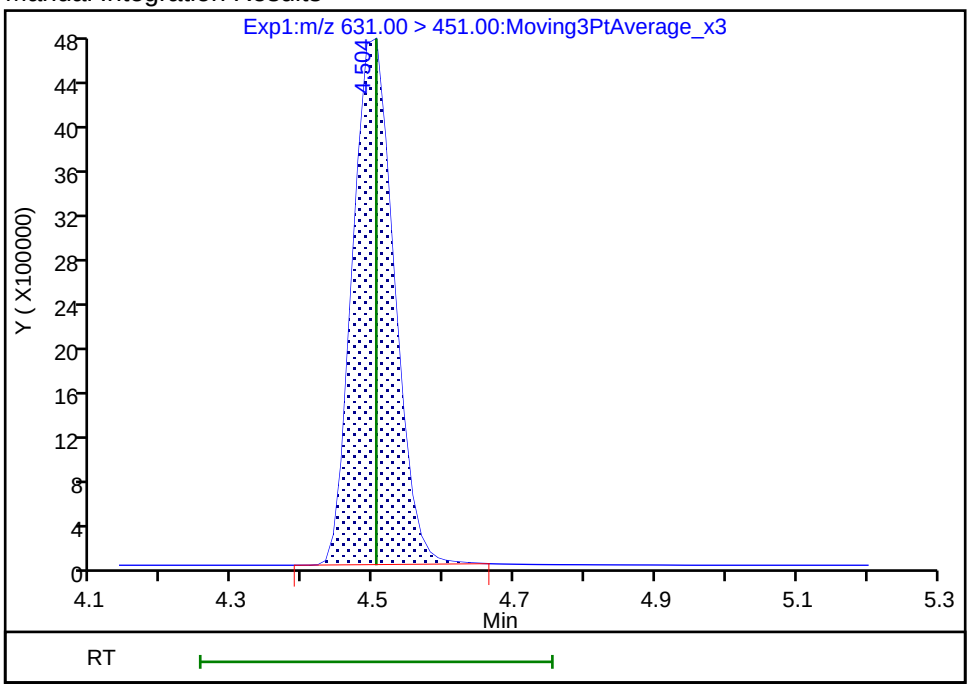
Processing Integration Results

RT: 4.50
Area: 19386929
Amount: 8.491193
Amount Units: ng/ml



Manual Integration Results

RT: 4.50
Area: 19188900
Amount: 8.417376
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:10:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

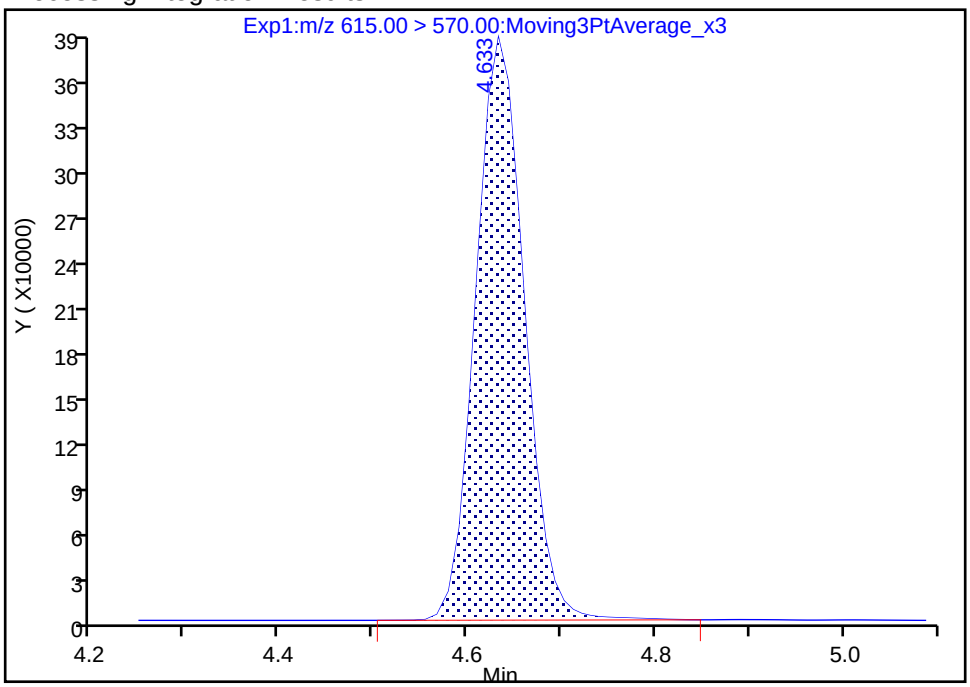
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 36 13C2 PFDoA, CAS: STL00998

Signal: 1

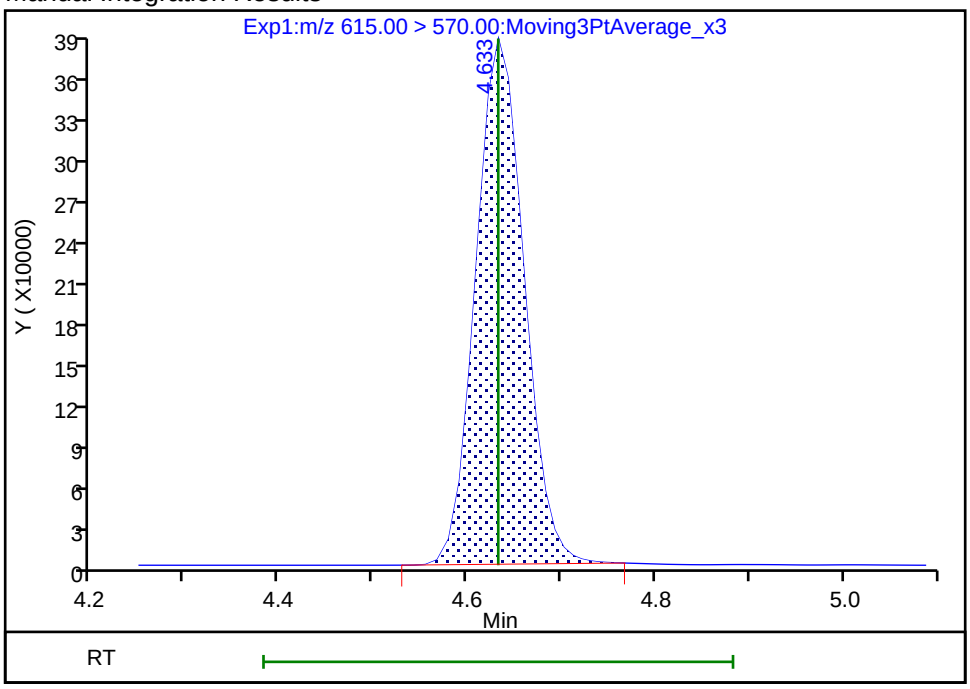
Processing Integration Results

RT: 4.63
Area: 1386048
Amount: 1.327226
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 1373650
Amount: 1.317440
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:11:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

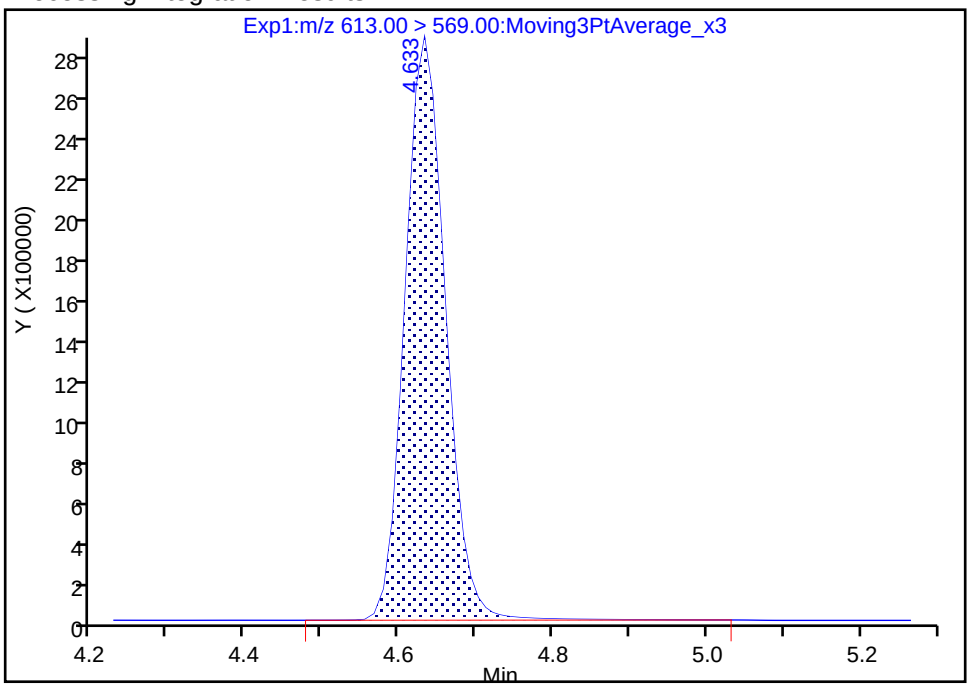
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

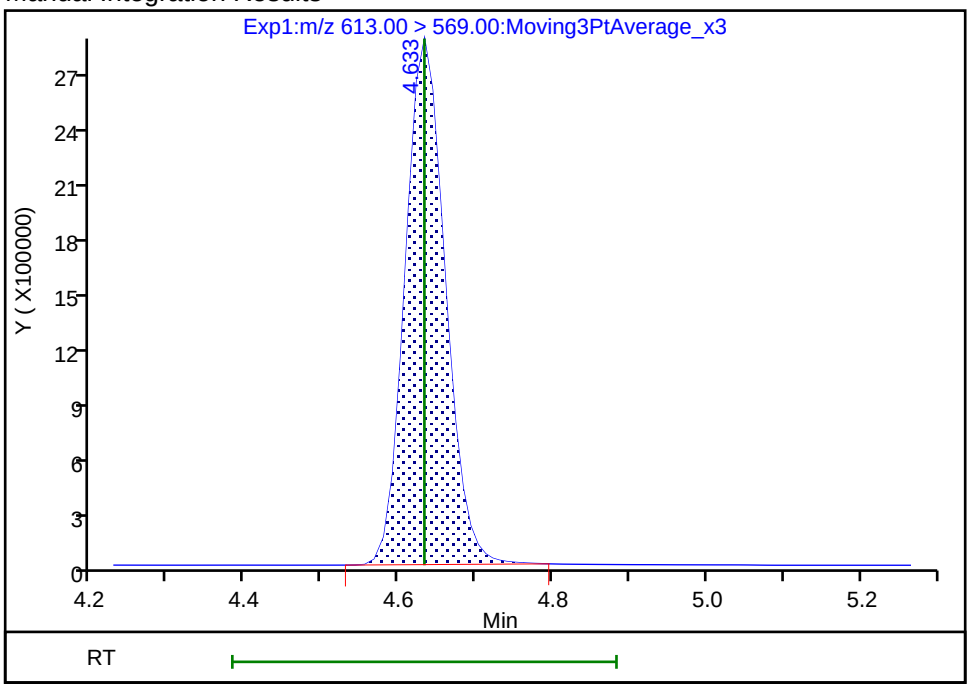
Processing Integration Results

RT: 4.63
Area: 10476128
Amount: 9.232335
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 10395977
Amount: 9.172498
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:11:06
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

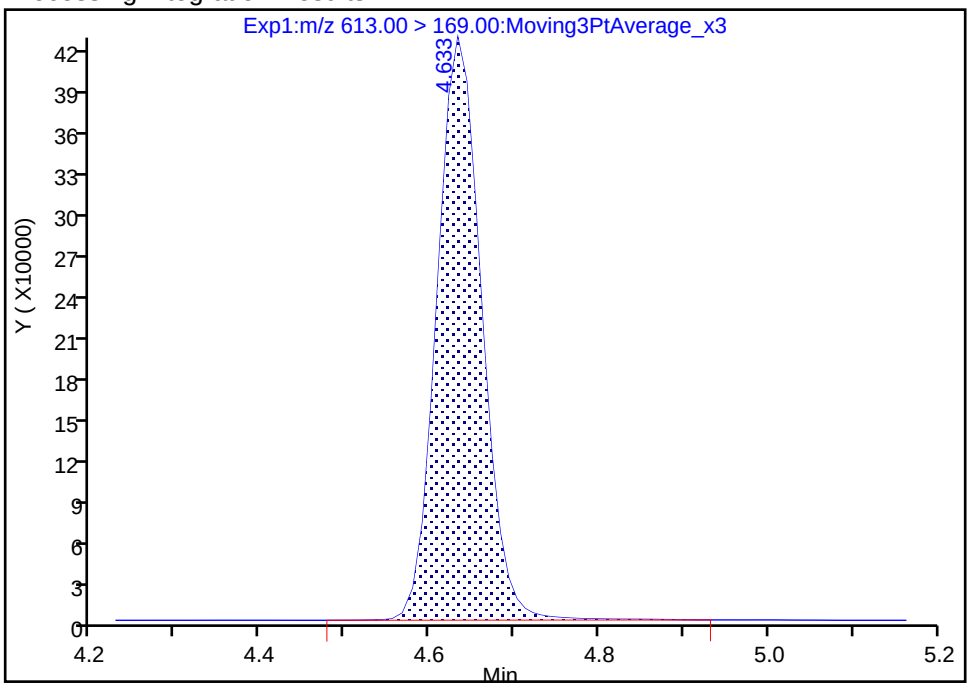
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d				
Injection Date:	05-May-2022 15:54:29	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

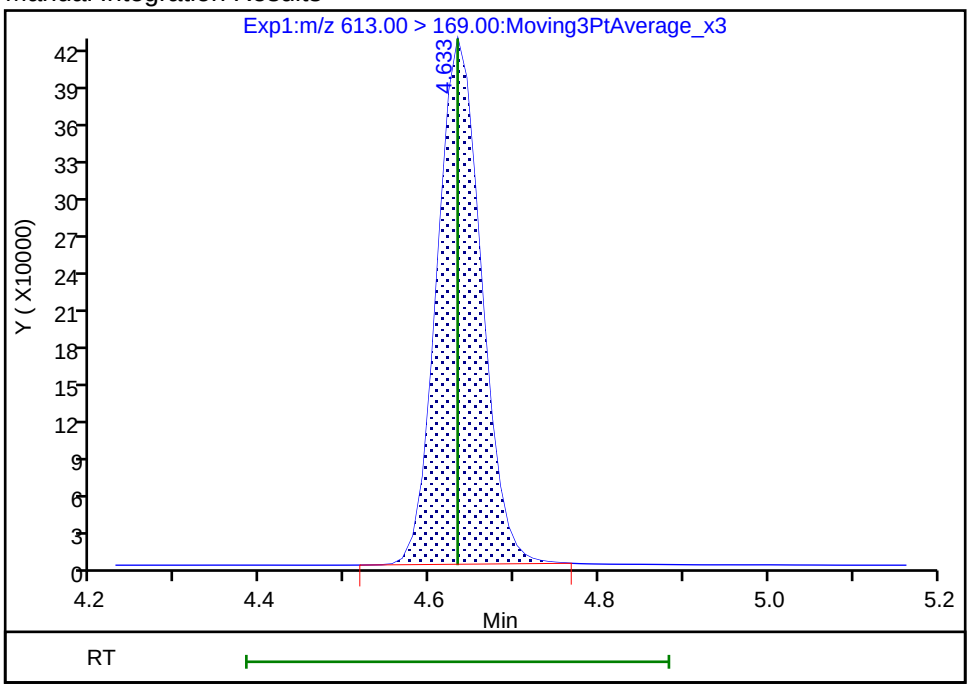
Processing Integration Results

RT: 4.63
Area: 1537285
Amount: 9.232335
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 1522230
Amount: 9.172498
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:11:09

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

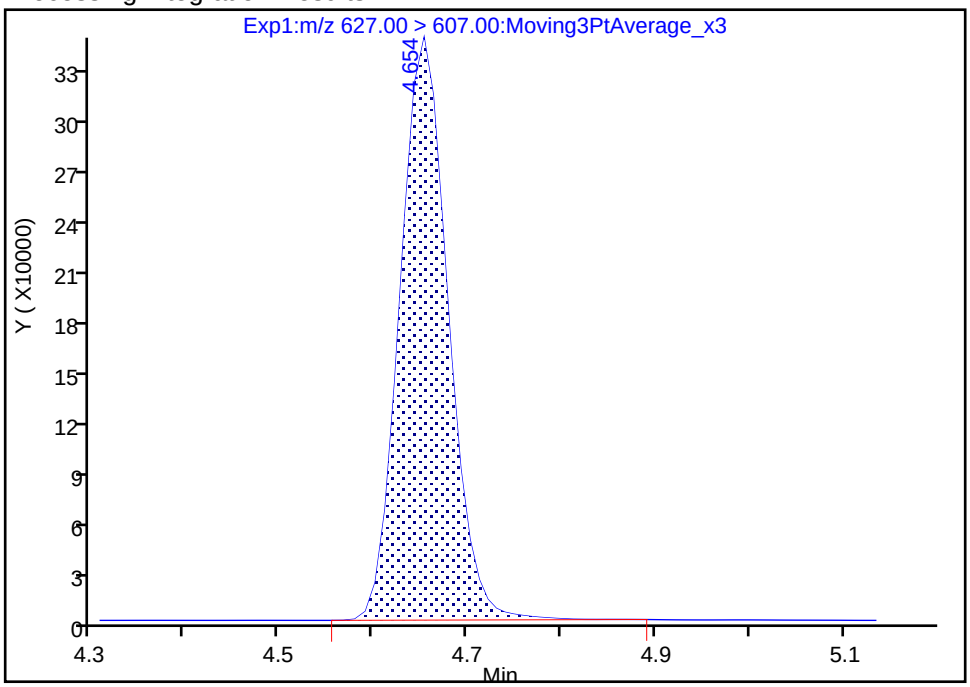
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

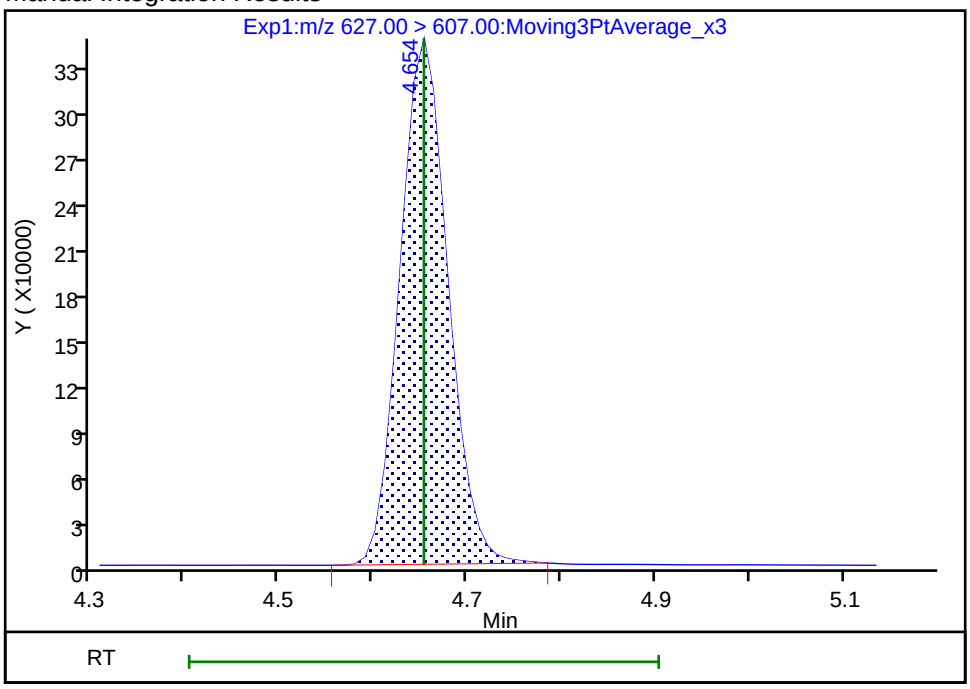
Processing Integration Results

RT: 4.65
Area: 1217491
Amount: 10.406082
Amount Units: ng/ml



Manual Integration Results

RT: 4.65
Area: 1208149
Amount: 10.340510
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:11:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

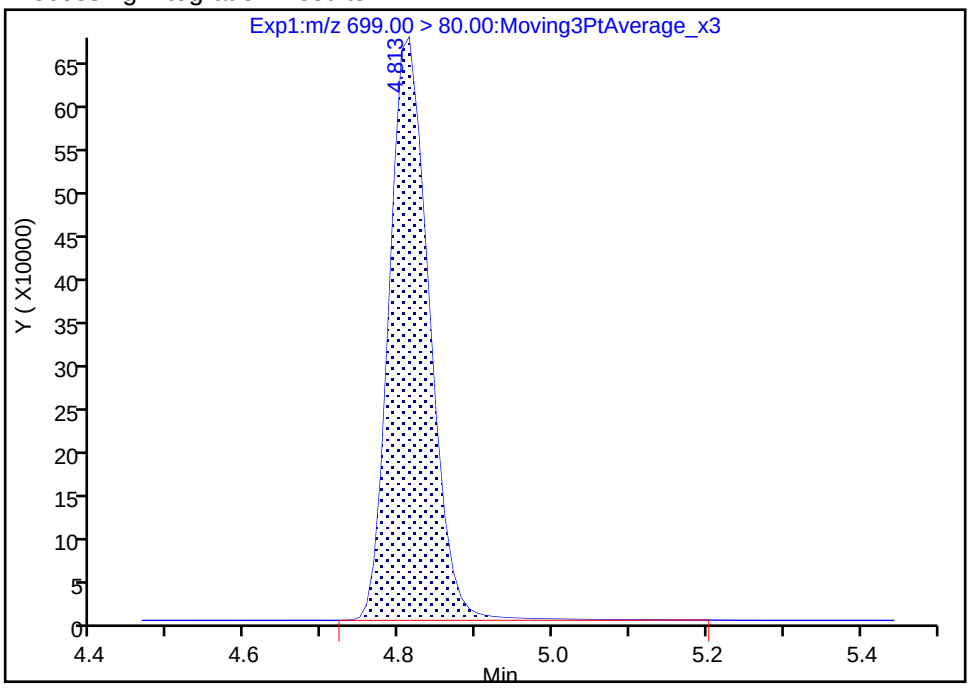
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

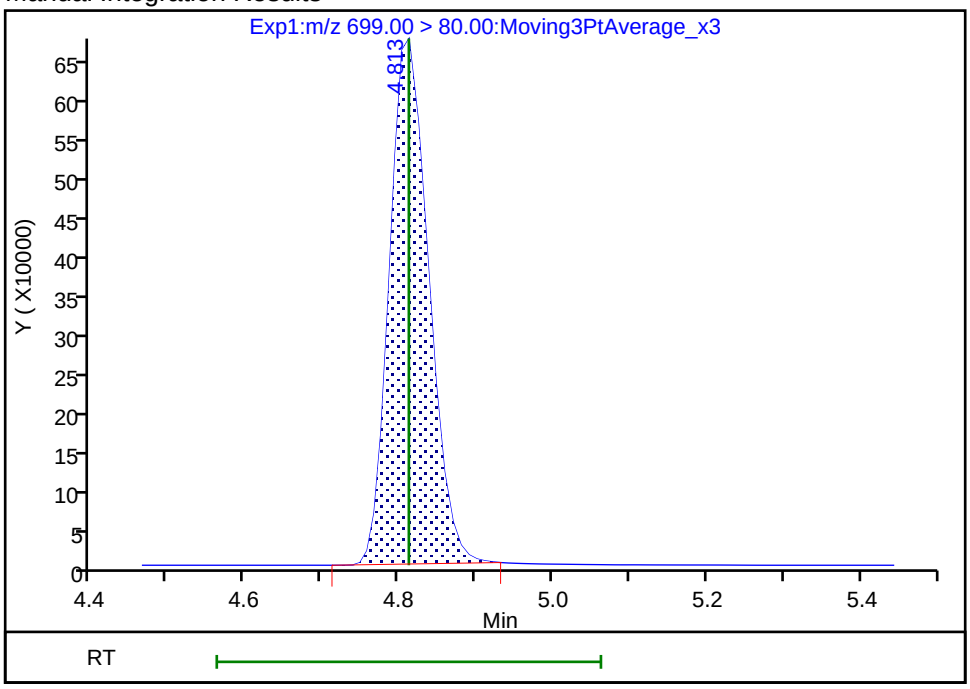
Processing Integration Results

RT: 4.81
Area: 2401992
Amount: 9.156980
Amount Units: ng/ml



Manual Integration Results

RT: 4.81
Area: 2367101
Amount: 9.044681
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:11:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

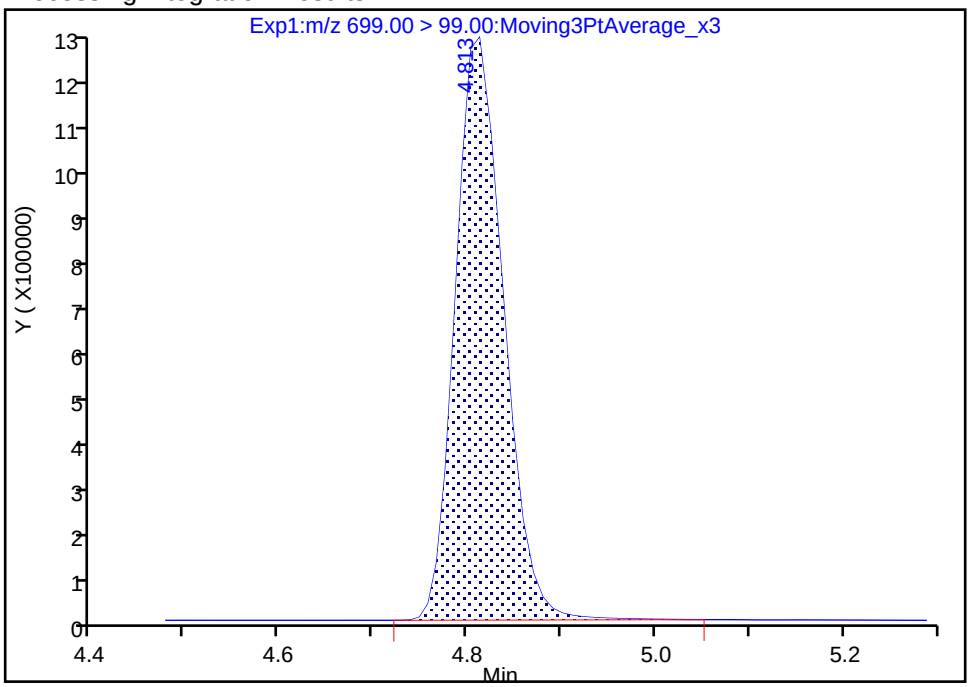
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d				
Injection Date:	05-May-2022 15:54:29	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

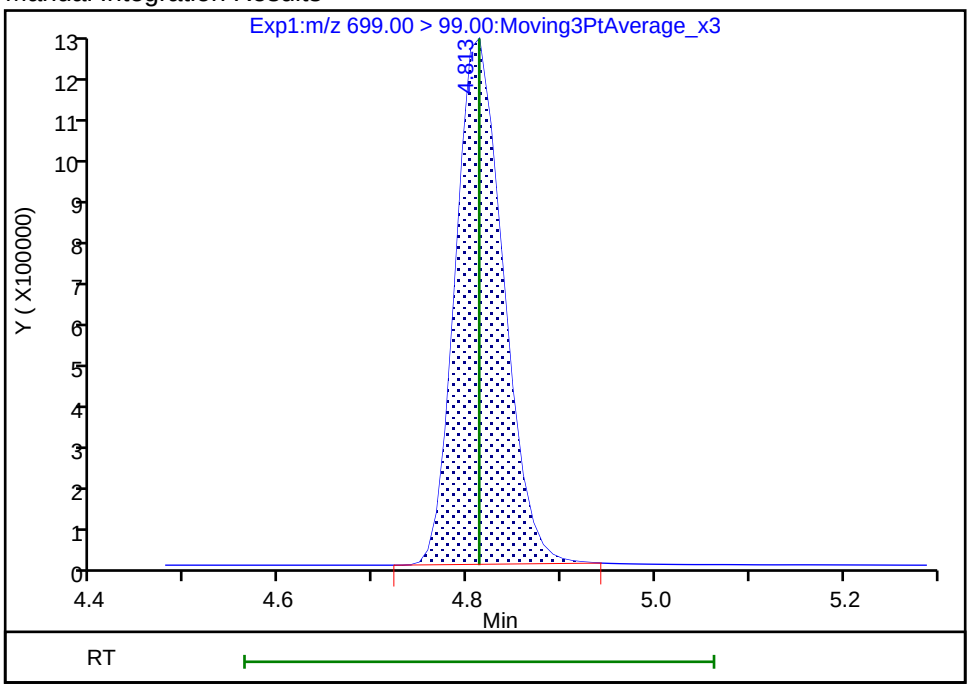
Processing Integration Results

RT: 4.81
Area: 4440275
Amount: 9.156980
Amount Units: ng/ml



Manual Integration Results

RT: 4.81
Area: 4404119
Amount: 9.044681
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:11:22

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

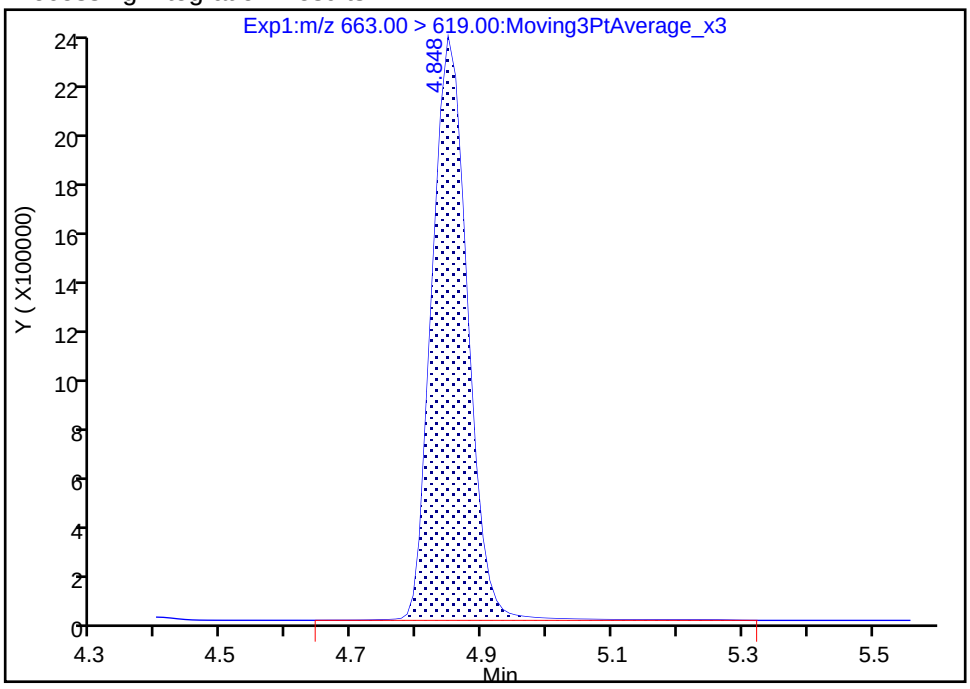
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

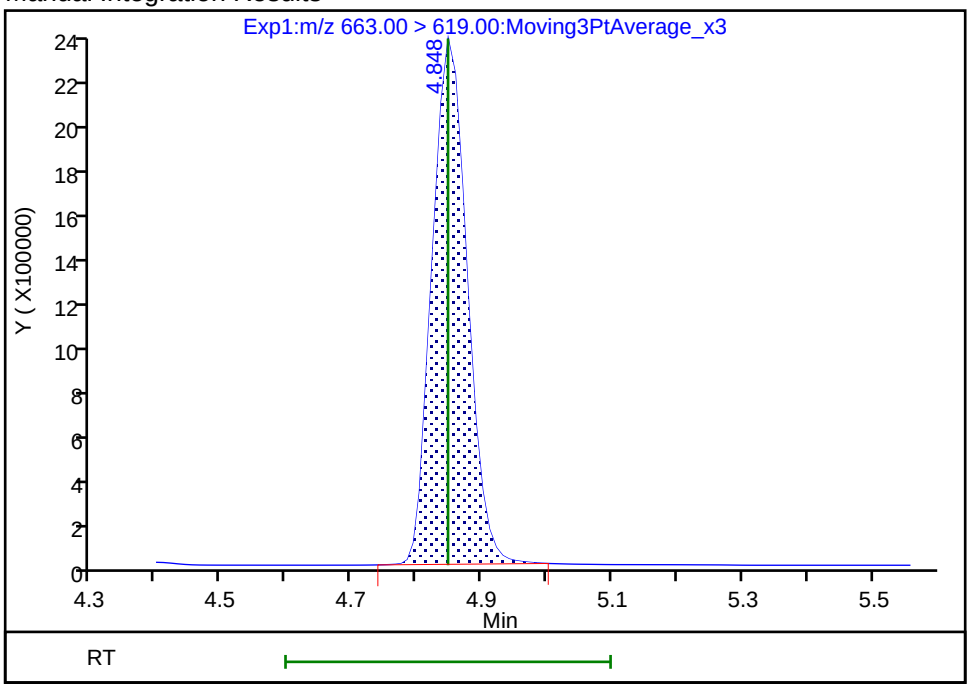
Processing Integration Results

RT: 4.85
Area: 9079762
Amount: 9.384797
Amount Units: ng/ml



Manual Integration Results

RT: 4.85
Area: 8948073
Amount: 9.269713
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:11:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

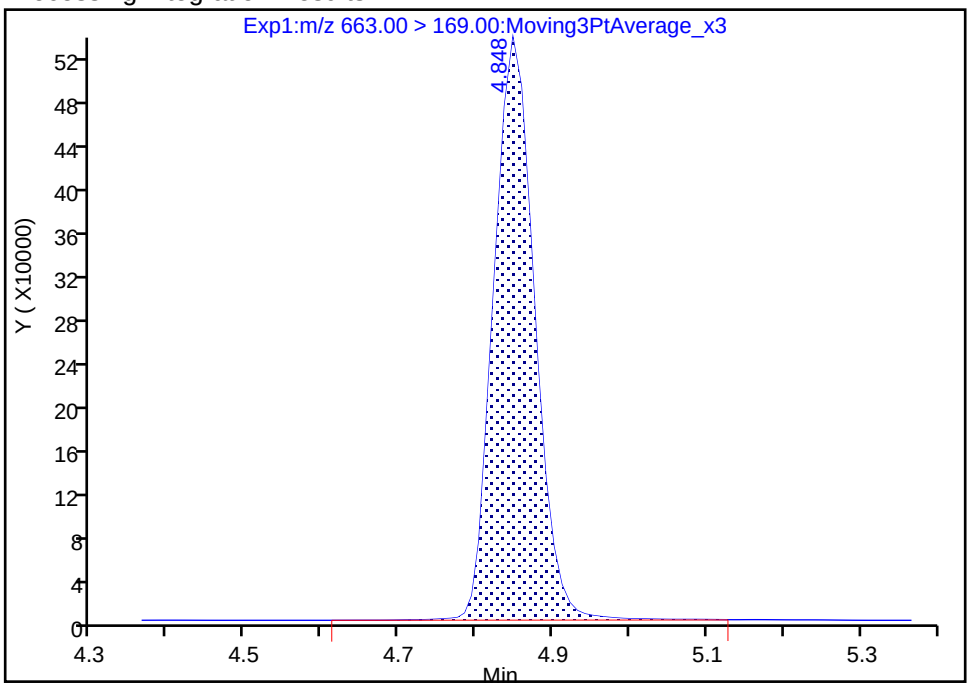
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d				
Injection Date:	05-May-2022 15:54:29	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

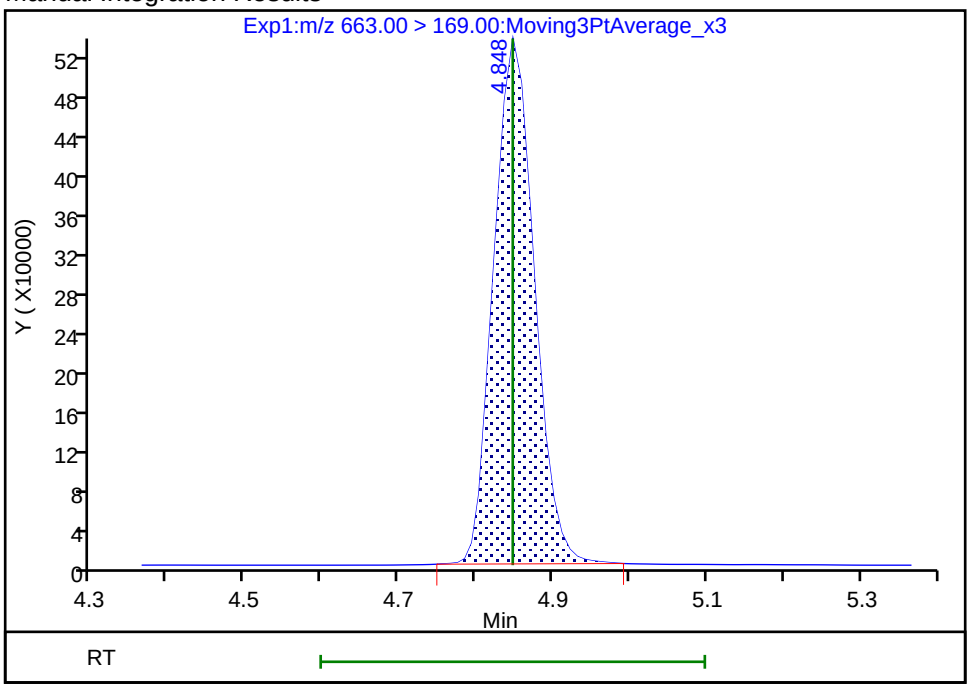
Processing Integration Results

RT: 4.85
Area: 1975106
Amount: 9.384797
Amount Units: ng/ml



Manual Integration Results

RT: 4.85
Area: 1950920
Amount: 9.269713
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:11:29

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

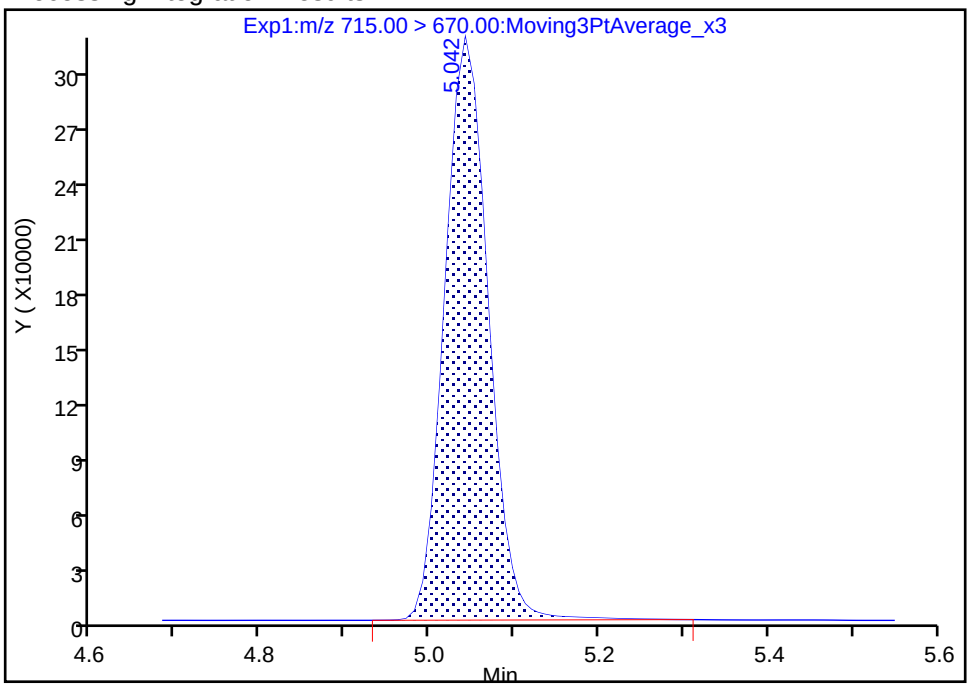
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

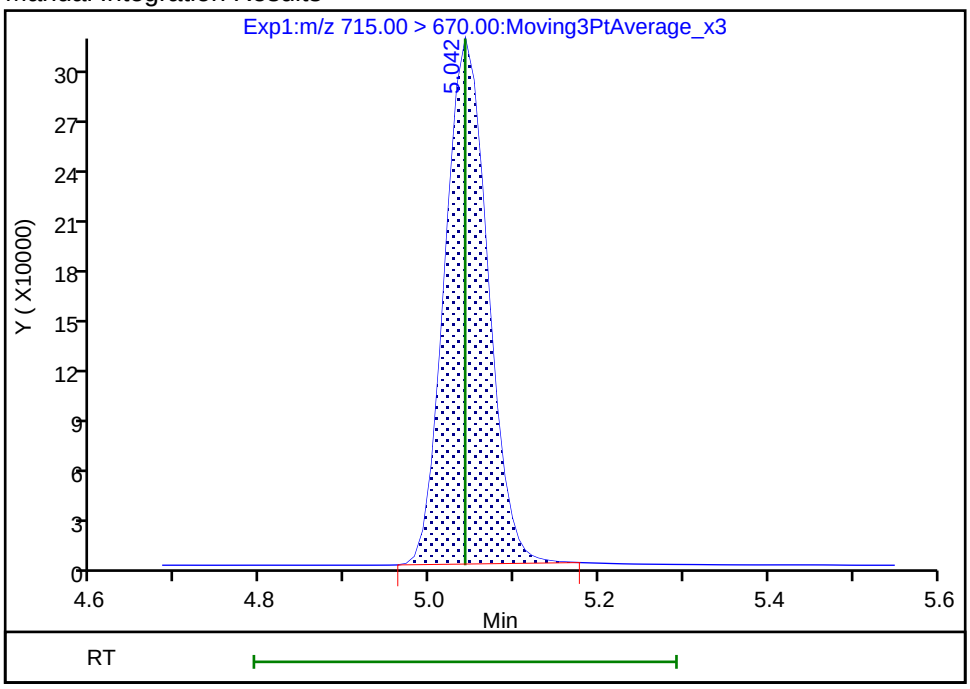
Processing Integration Results

RT: 5.04
Area: 1118342
Amount: 1.309636
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 1105099
Amount: 1.296809
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:11:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

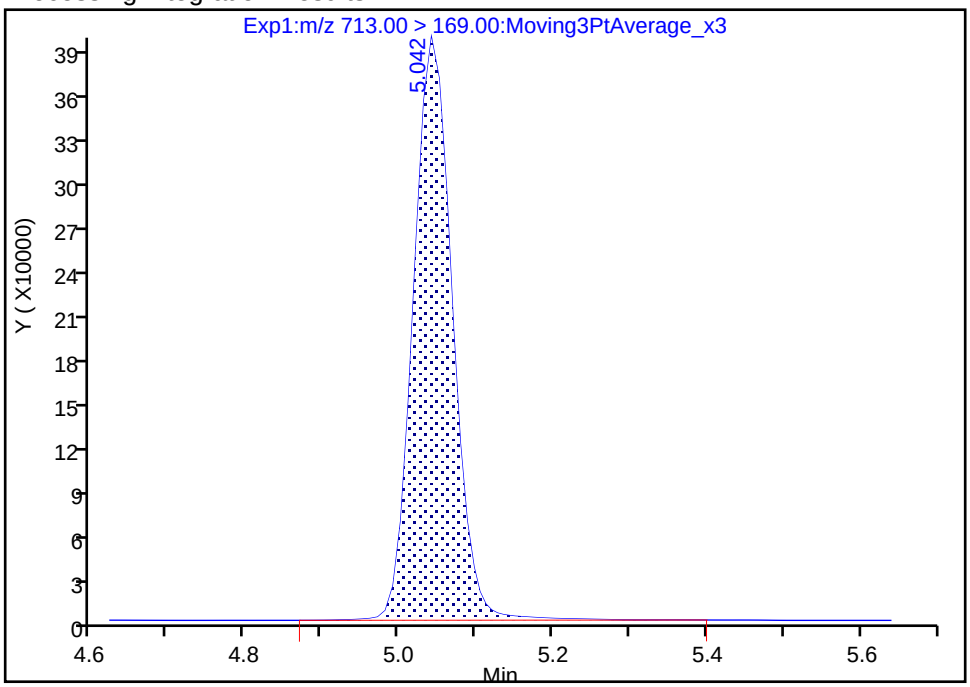
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

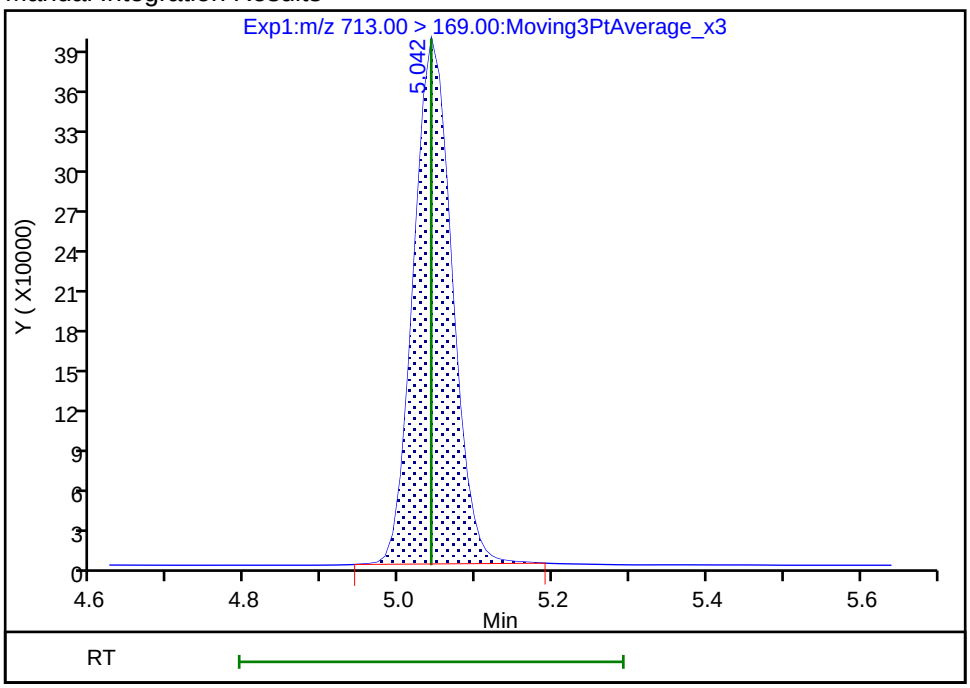
Processing Integration Results

RT: 5.04
Area: 1376620
Amount: 9.954607
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 1357469
Amount: 9.937208
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:11:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

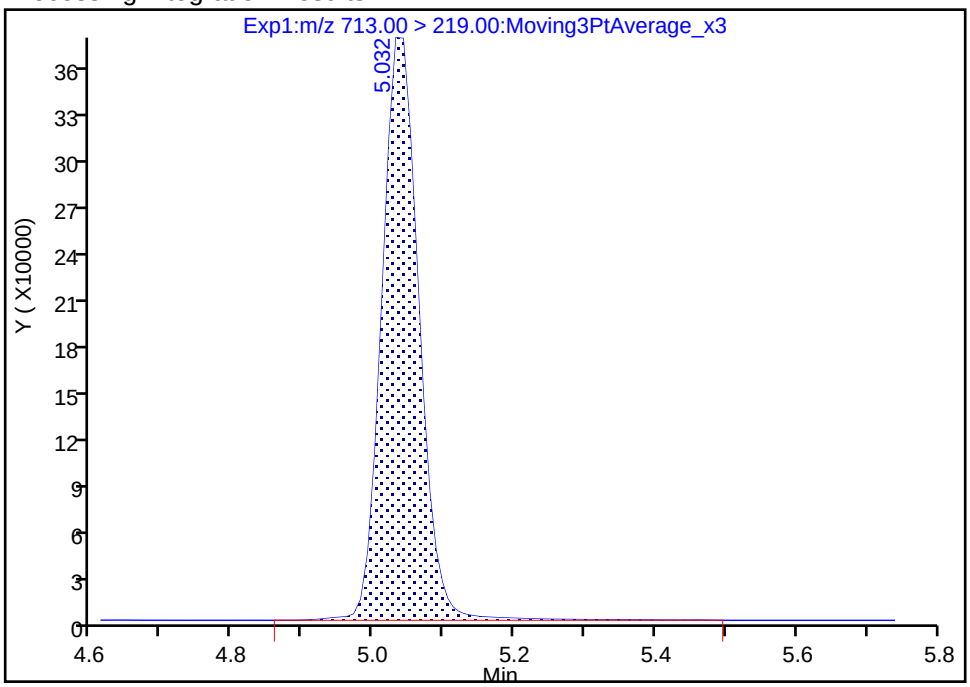
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

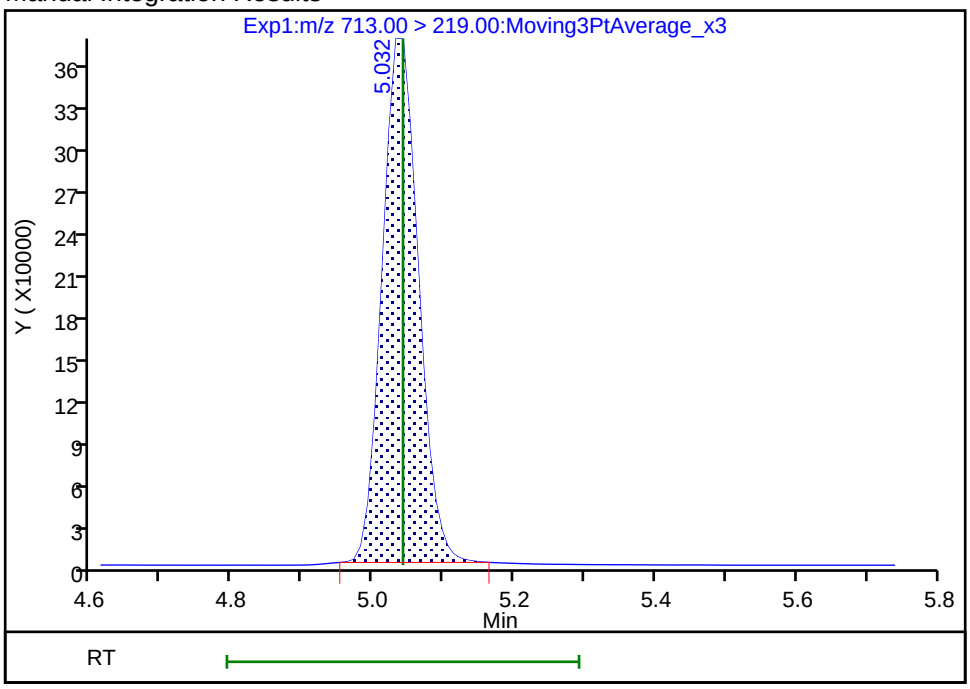
Processing Integration Results

RT: 5.03
Area: 1383659
Amount: 9.954607
Amount Units: ng/ml



Manual Integration Results

RT: 5.03
Area: 1345315
Amount: 9.937208
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:11:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

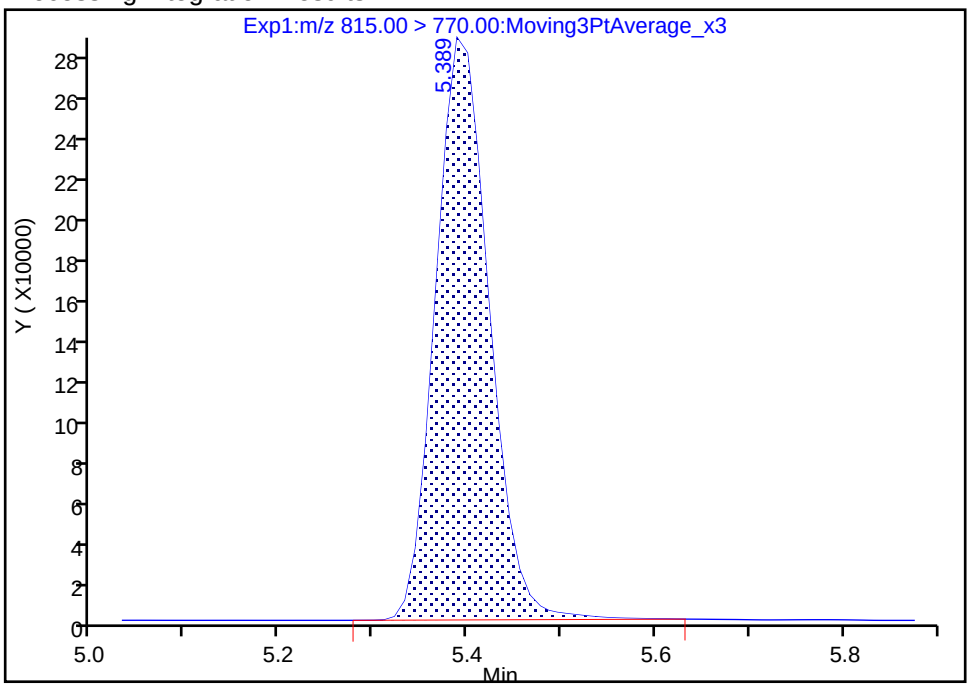
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

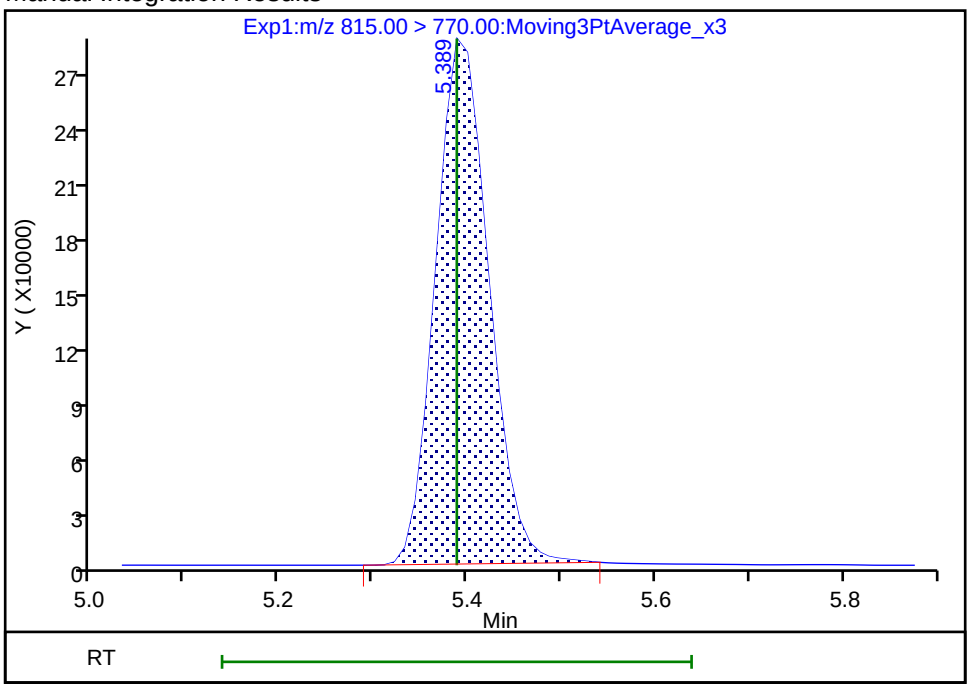
Processing Integration Results

RT: 5.39
Area: 1140261
Amount: 1.288792
Amount Units: ng/ml



Manual Integration Results

RT: 5.39
Area: 1129598
Amount: 1.278795
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:11:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

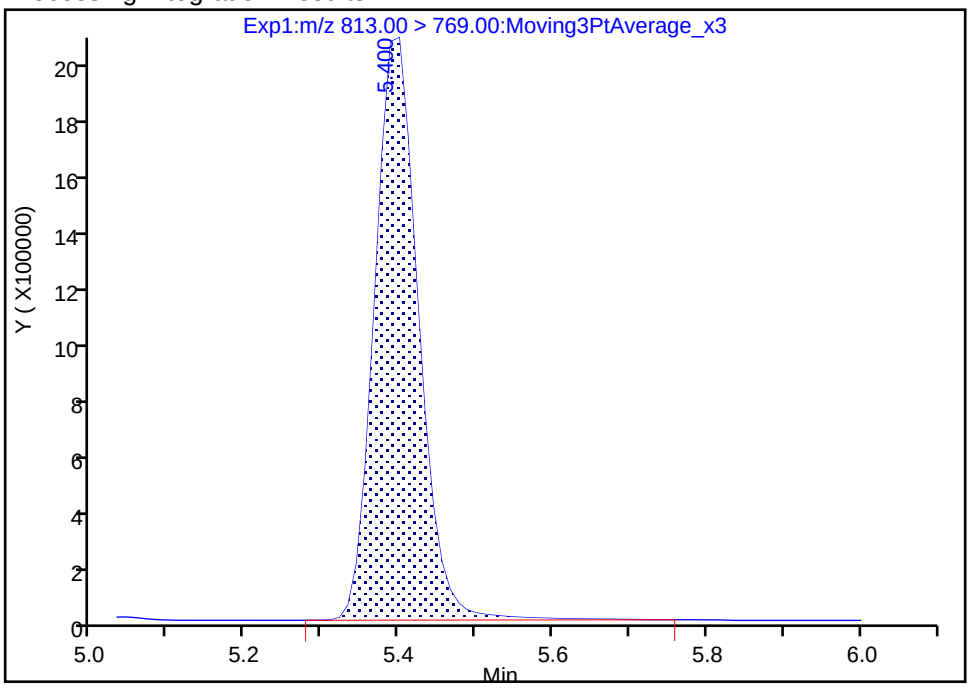
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

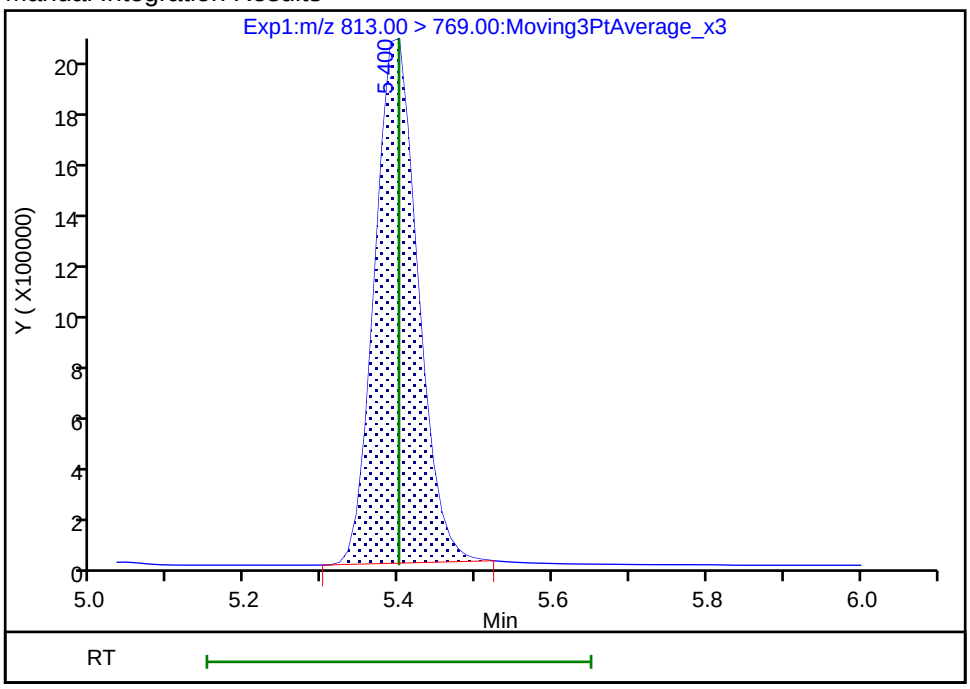
Processing Integration Results

RT: 5.40
Area: 8122303
Amount: 10.043744
Amount Units: ng/ml



Manual Integration Results

RT: 5.40
Area: 7951047
Amount: 10.012948
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:11:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

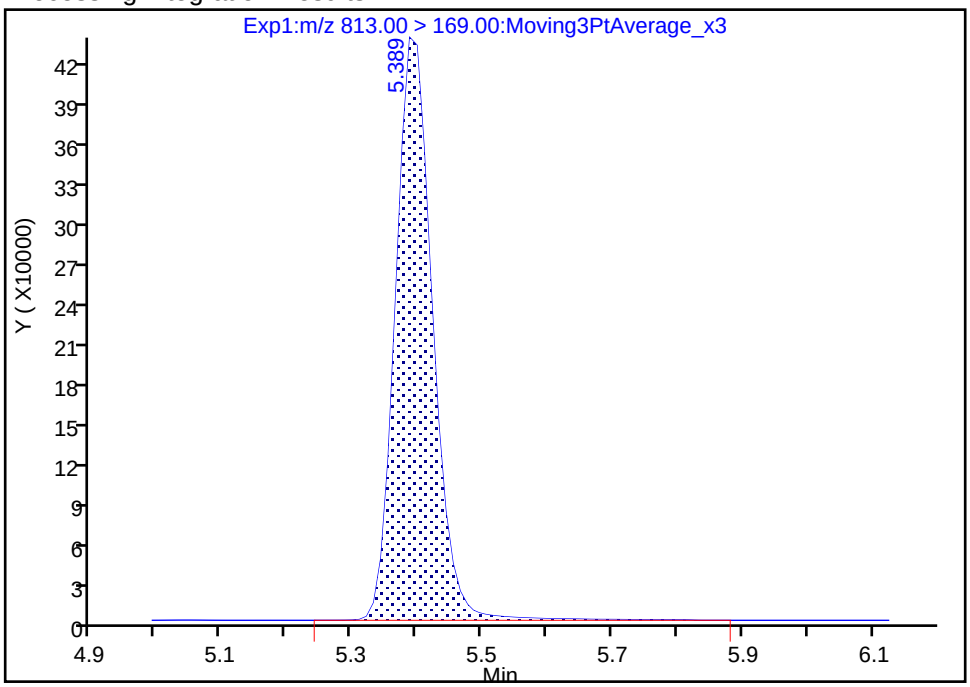
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

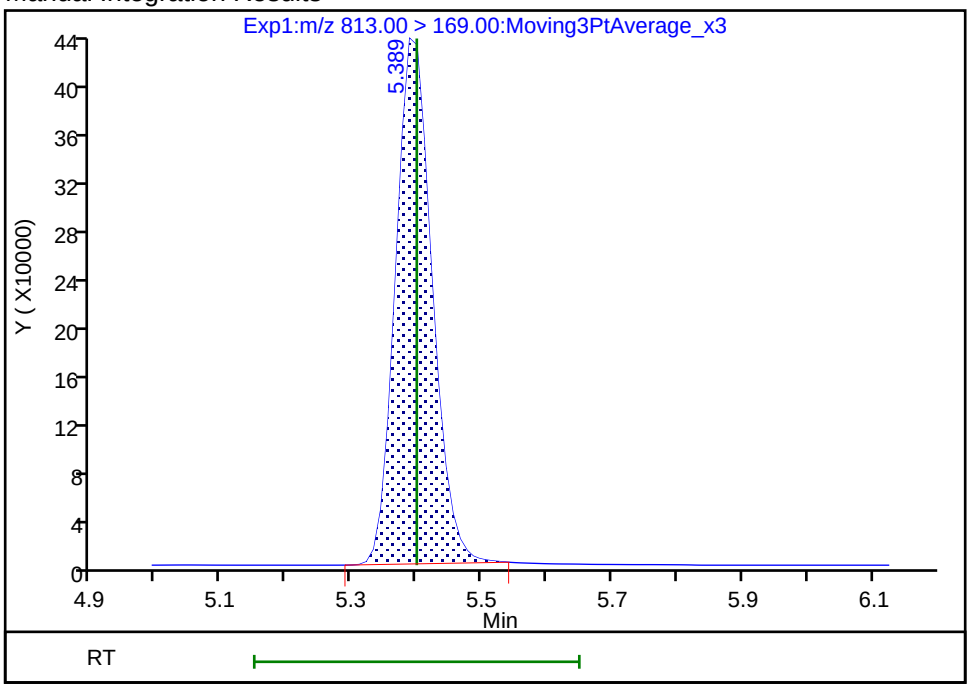
Processing Integration Results

RT: 5.39
Area: 1703192
Amount: 10.043744
Amount Units: ng/ml



Manual Integration Results

RT: 5.39
Area: 1670210
Amount: 10.012948
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:11:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

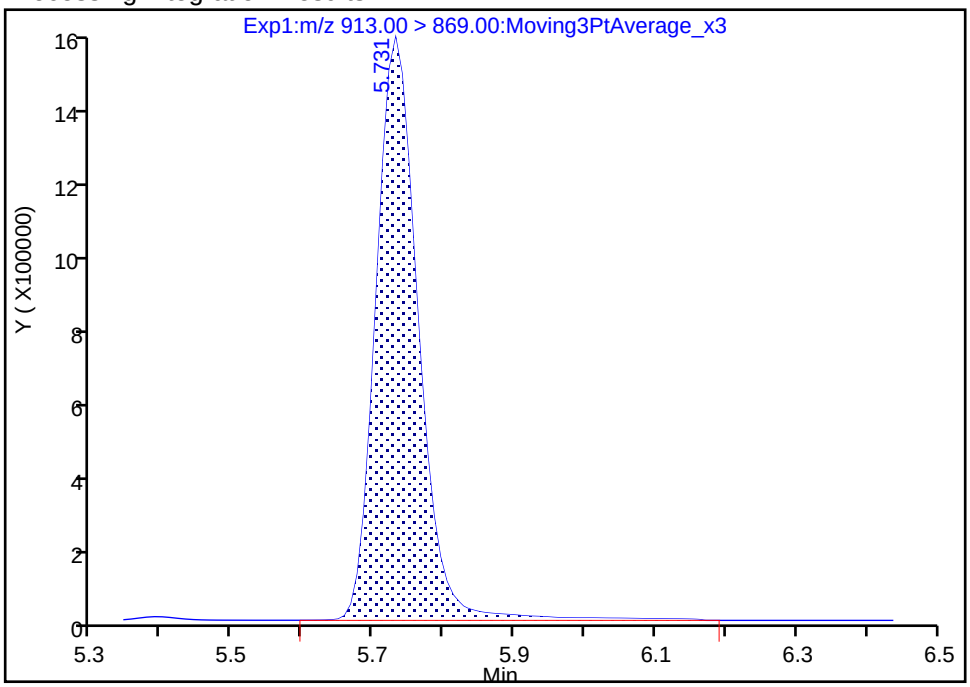
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d
Injection Date: 05-May-2022 15:54:29 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

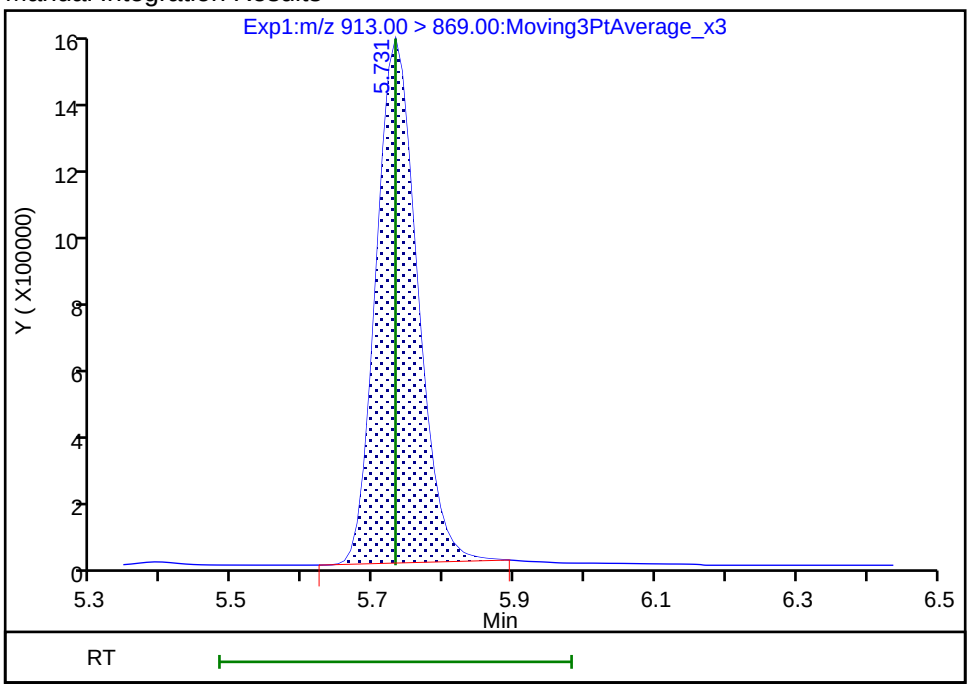
Processing Integration Results

RT: 5.73
Area: 6332754
Amount: 9.998870
Amount Units: ng/ml



Manual Integration Results

RT: 5.73
Area: 6103858
Amount: 9.695865
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:12:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

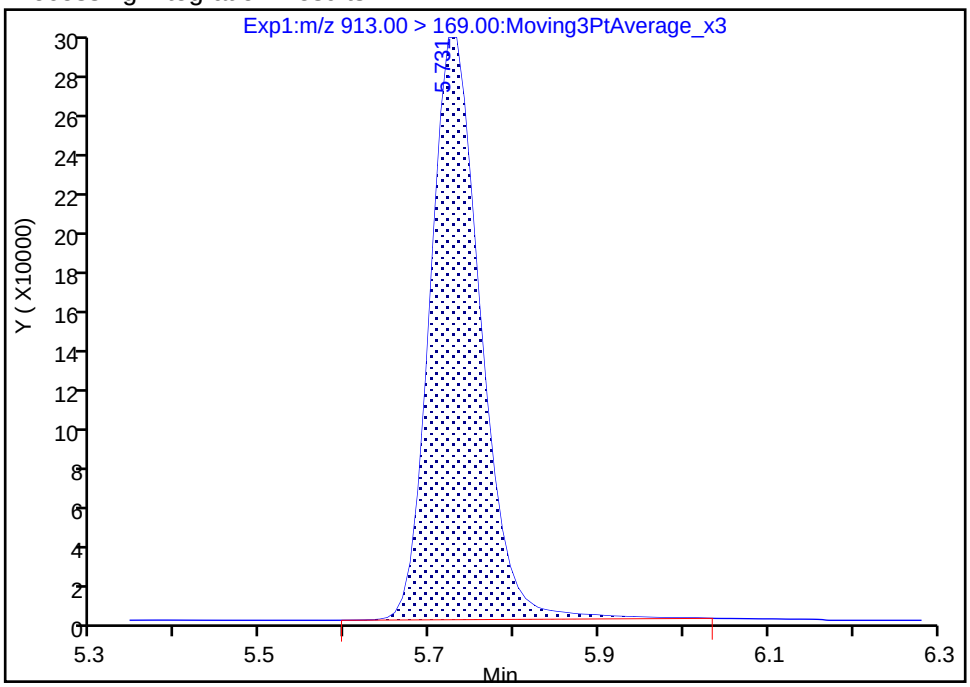
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d				
Injection Date:	05-May-2022 15:54:29	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

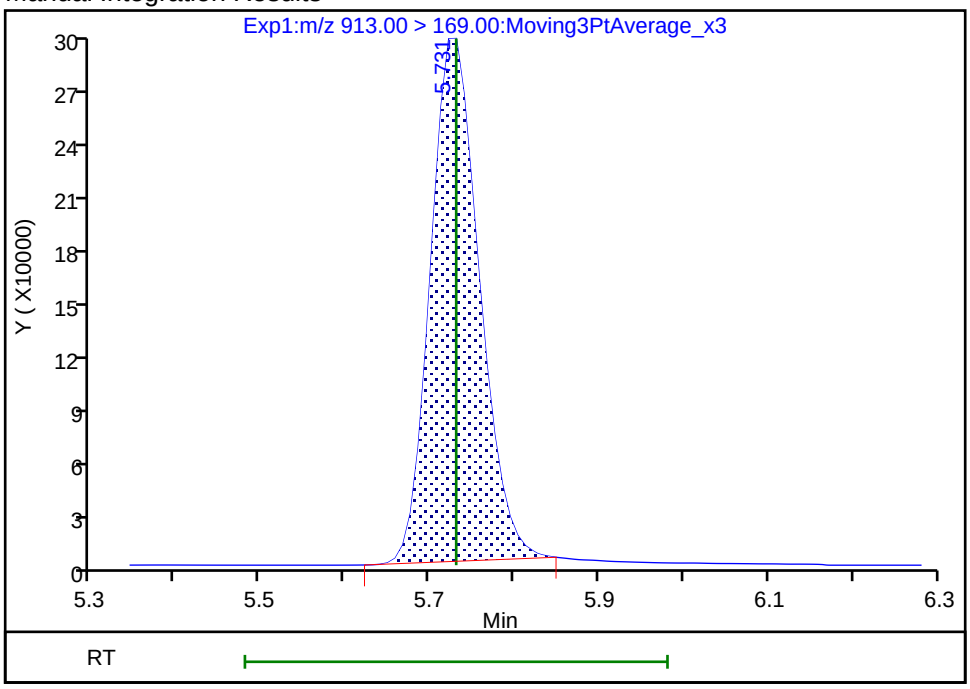
Processing Integration Results

RT: 5.73
Area: 1214622
Amount: 9.998870
Amount Units: ng/ml



Manual Integration Results

RT: 5.73
Area: 1174219
Amount: 9.695865
Amount Units: ng/ml



Reviewer: deannd, 05-May-2022 16:12:06
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Calibration / Perfluorobutanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

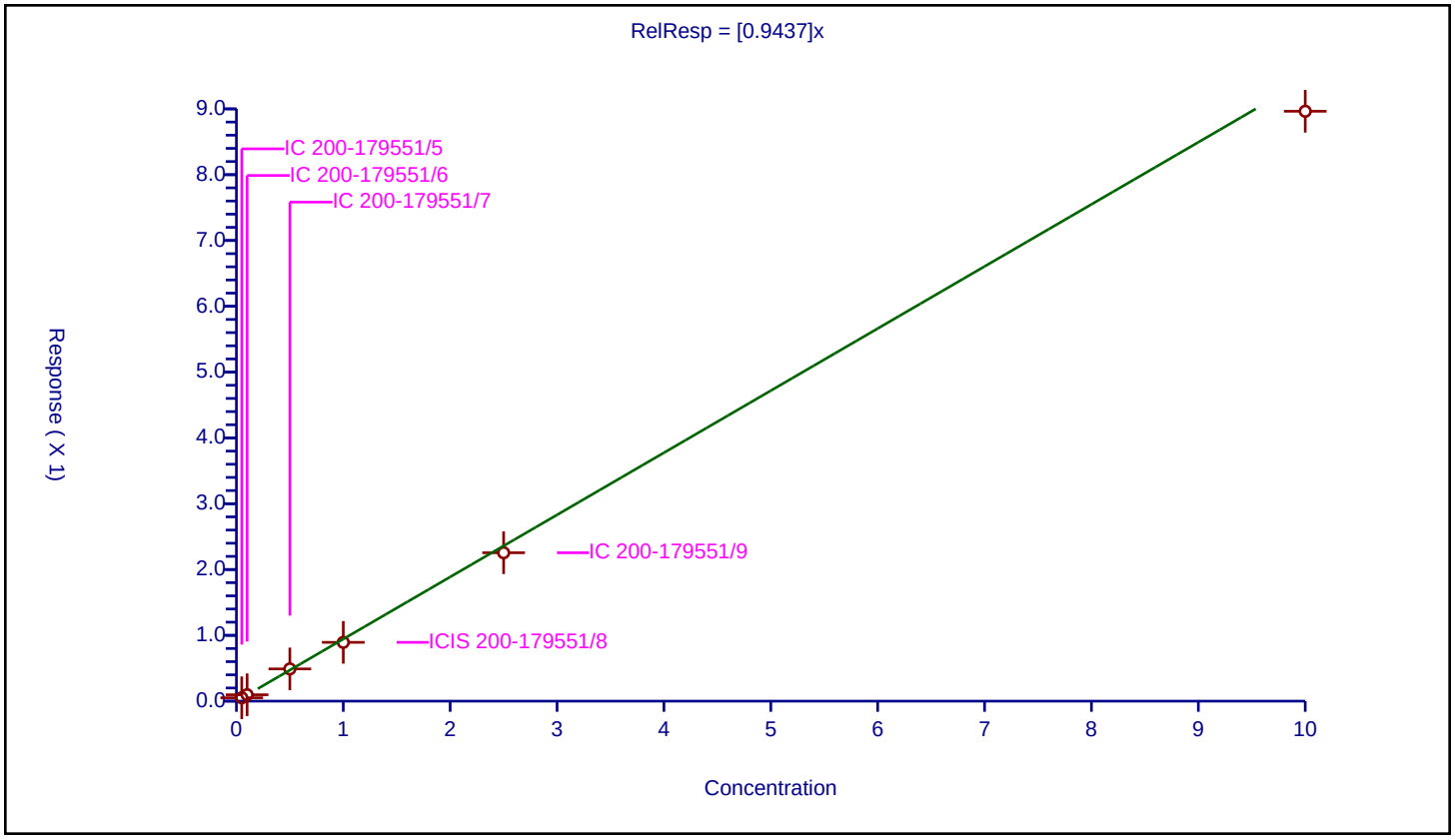
Curve Coefficients

Intercept:	0
Slope:	0.9437

Error Coefficients

Standard Error:	5630000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.05	0.05103	1.25	1764914.0	1.020602	Y
2	IC 200-179551/6	0.1	0.096957	1.25	1815696.0	0.969573	Y
3	IC 200-179551/7	0.5	0.490109	1.25	1789335.0	0.980219	Y
4	ICIS 200-179551/8	1.0	0.893342	1.25	1778646.0	0.893342	Y
5	IC 200-179551/9	2.5	2.255174	1.25	1783532.0	0.90207	Y
6	IC 200-179551/10	10.0	8.96384	1.25	1684322.0	0.896384	Y



Calibration / Perfluoropentanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

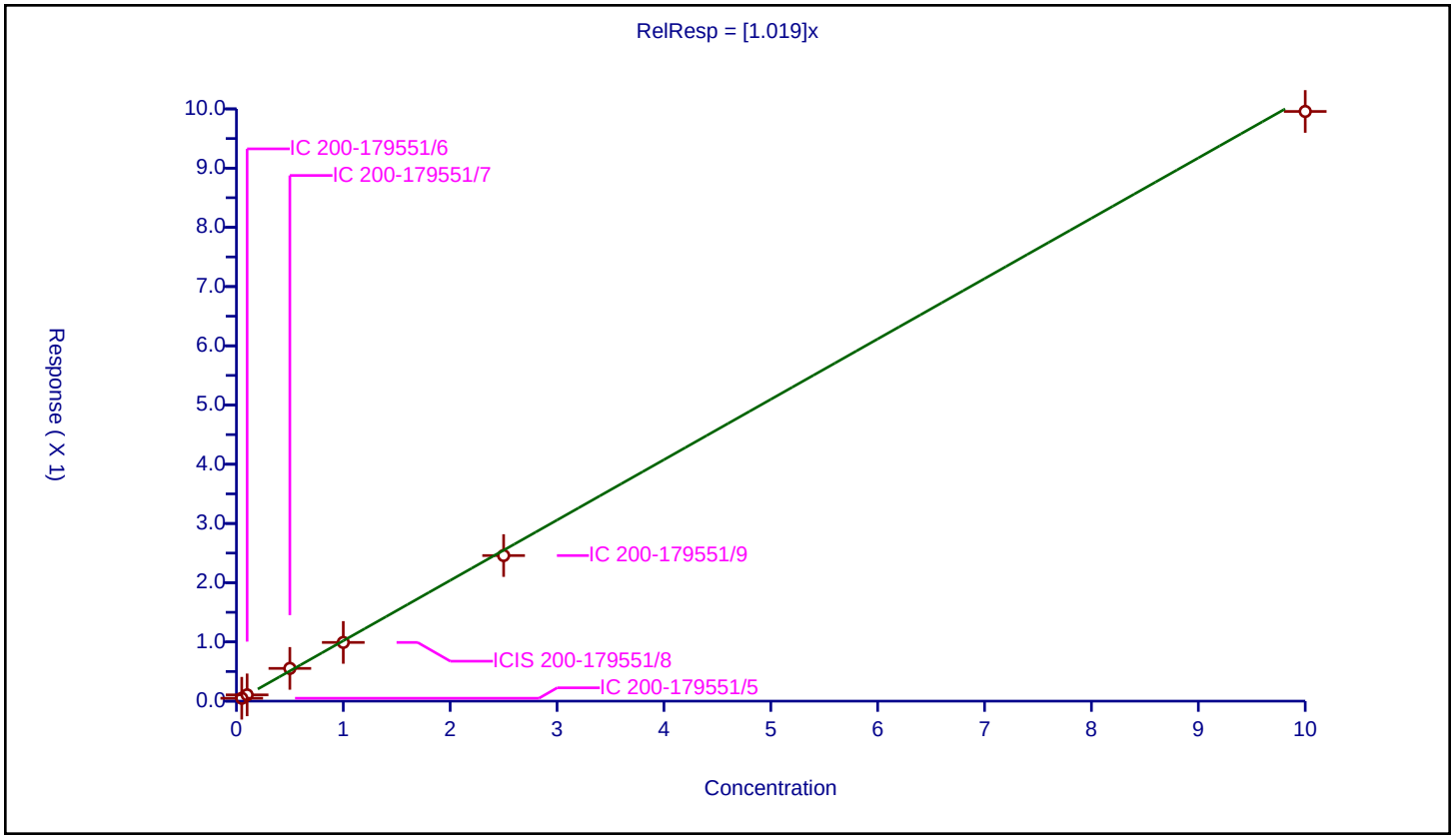
Curve Coefficients

Intercept:	0
Slope:	1.019

Error Coefficients

Standard Error:	4590000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.05	0.048929	1.25	1393000.0	0.978571	Y
2	IC 200-179551/6	0.1	0.106024	1.25	1384459.0	1.060243	Y
3	IC 200-179551/7	0.5	0.552921	1.25	1363294.0	1.105842	Y
4	ICIS 200-179551/8	1.0	0.991194	1.25	1342973.0	0.991194	Y
5	IC 200-179551/9	2.5	2.458339	1.25	1407730.0	0.983336	Y
6	IC 200-179551/10	10.0	9.95671	1.25	1230429.0	0.995671	Y



Calibration / Perfluorobutanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

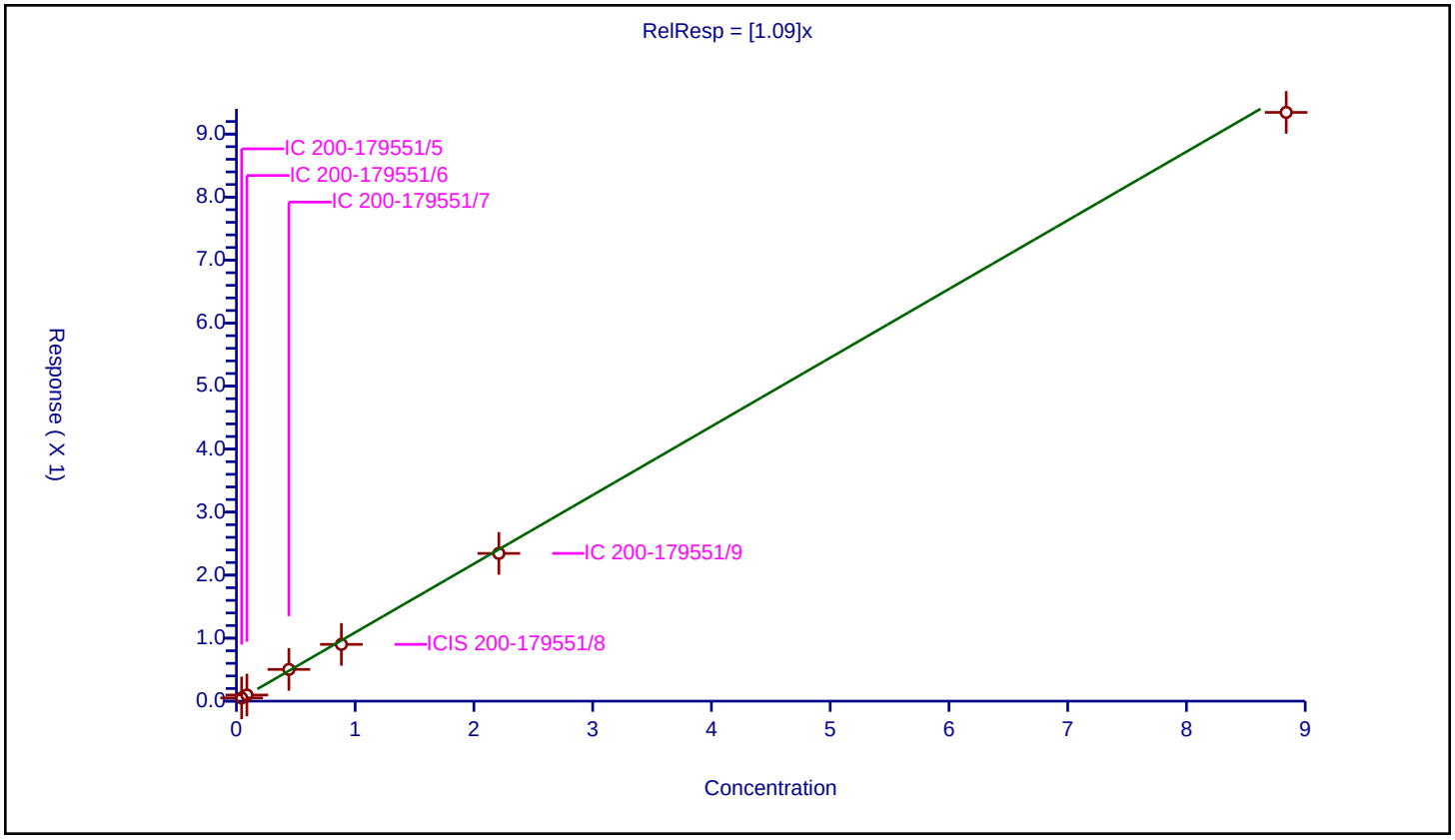
Curve Coefficients

Intercept:	0
Slope:	1.09

Error Coefficients

Standard Error:	6530000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.0442	0.051238	1.1625	1829681.0	1.159224	Y
2	IC 200-179551/6	0.0884	0.097599	1.1625	1851461.0	1.104065	Y
3	IC 200-179551/7	0.442	0.503764	1.1625	1821993.0	1.139739	Y
4	ICIS 200-179551/8	0.884	0.900911	1.1625	1818552.0	1.019131	Y
5	IC 200-179551/9	2.21	2.344798	1.1625	1878647.0	1.060994	Y
6	IC 200-179551/10	8.84	9.344076	1.1625	1743238.0	1.057022	Y



Calibration / 1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

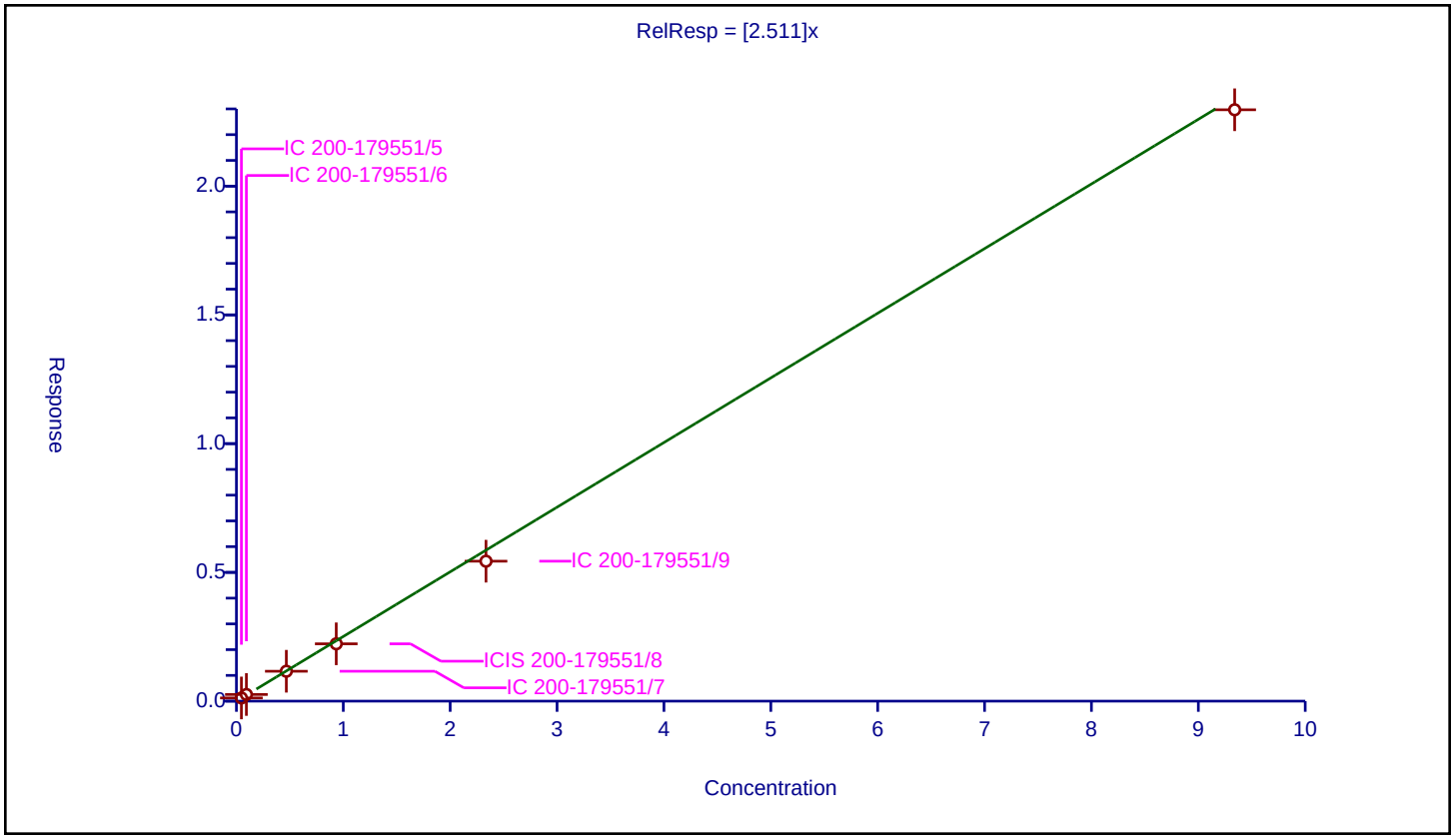
Curve Coefficients

Intercept:	0
Slope:	2.511

Error Coefficients

Standard Error:	1270000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.0467	0.123237	1.1675	152810.0	2.638898	Y
2	IC 200-179551/6	0.0934	0.258565	1.1675	153457.0	2.768365	Y
3	IC 200-179551/7	0.467	1.160804	1.1675	155519.0	2.485661	Y
4	ICIS 200-179551/8	0.934	2.226746	1.1675	151117.0	2.384096	Y
5	IC 200-179551/9	2.335	5.435349	1.1675	158459.0	2.327772	Y
6	IC 200-179551/10	9.34	22.965549	1.1675	138405.0	2.458838	Y



Calibration / Perfluorohexanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

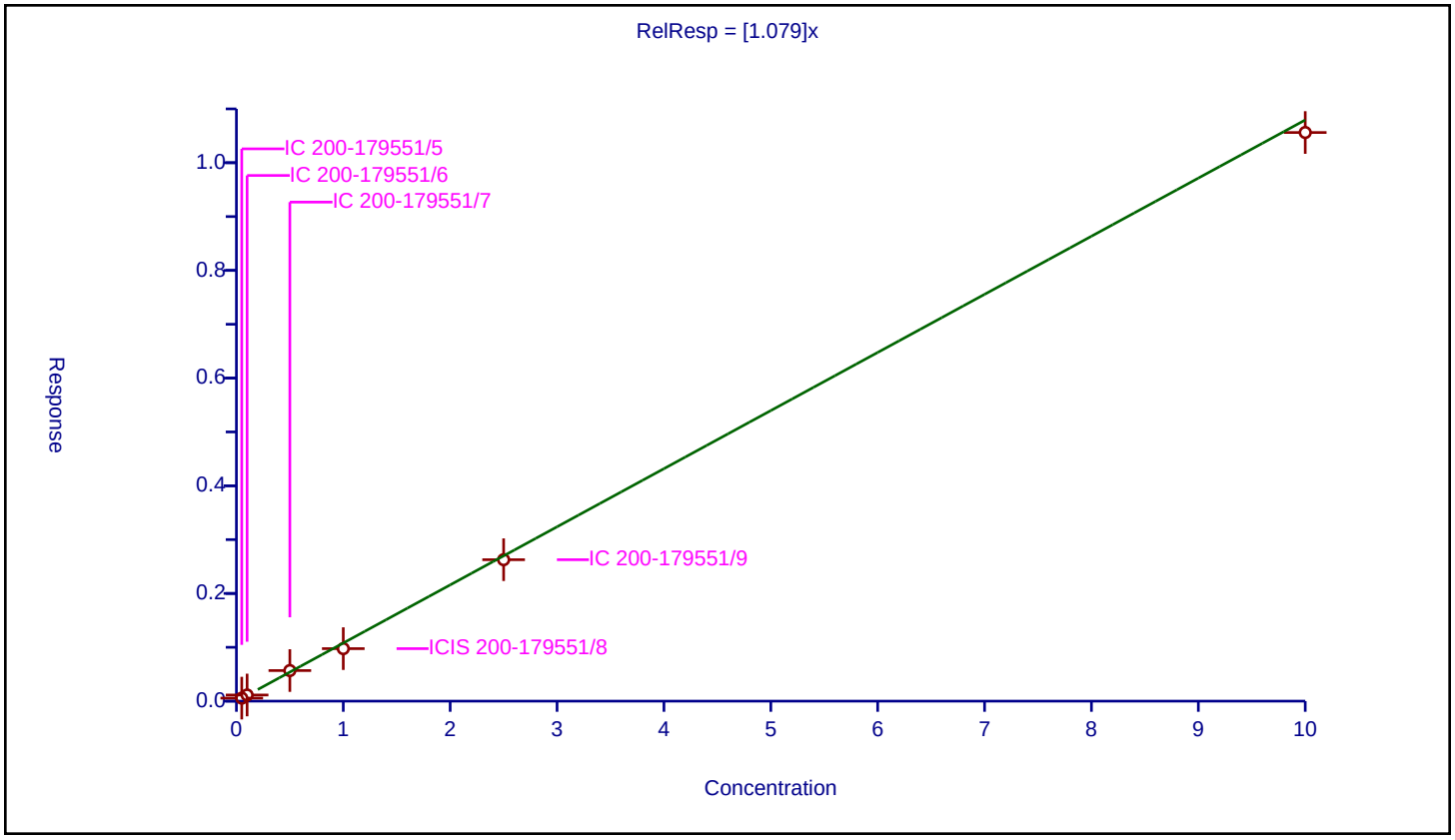
Curve Coefficients

Intercept:	0
Slope:	1.079

Error Coefficients

Standard Error:	5010000
Relative Standard Error:	5.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.05	0.055972	1.25	1417729.0	1.119449	Y
2	IC 200-179551/6	0.1	0.11382	1.25	1399164.0	1.138198	Y
3	IC 200-179551/7	0.5	0.568089	1.25	1386720.0	1.136177	Y
4	ICIS 200-179551/8	1.0	0.975386	1.25	1429355.0	0.975386	Y
5	IC 200-179551/9	2.5	2.626937	1.25	1396626.0	1.050775	Y
6	IC 200-179551/10	10.0	10.561373	1.25	1271512.0	1.056137	Y



Calibration / Perfluoropentanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

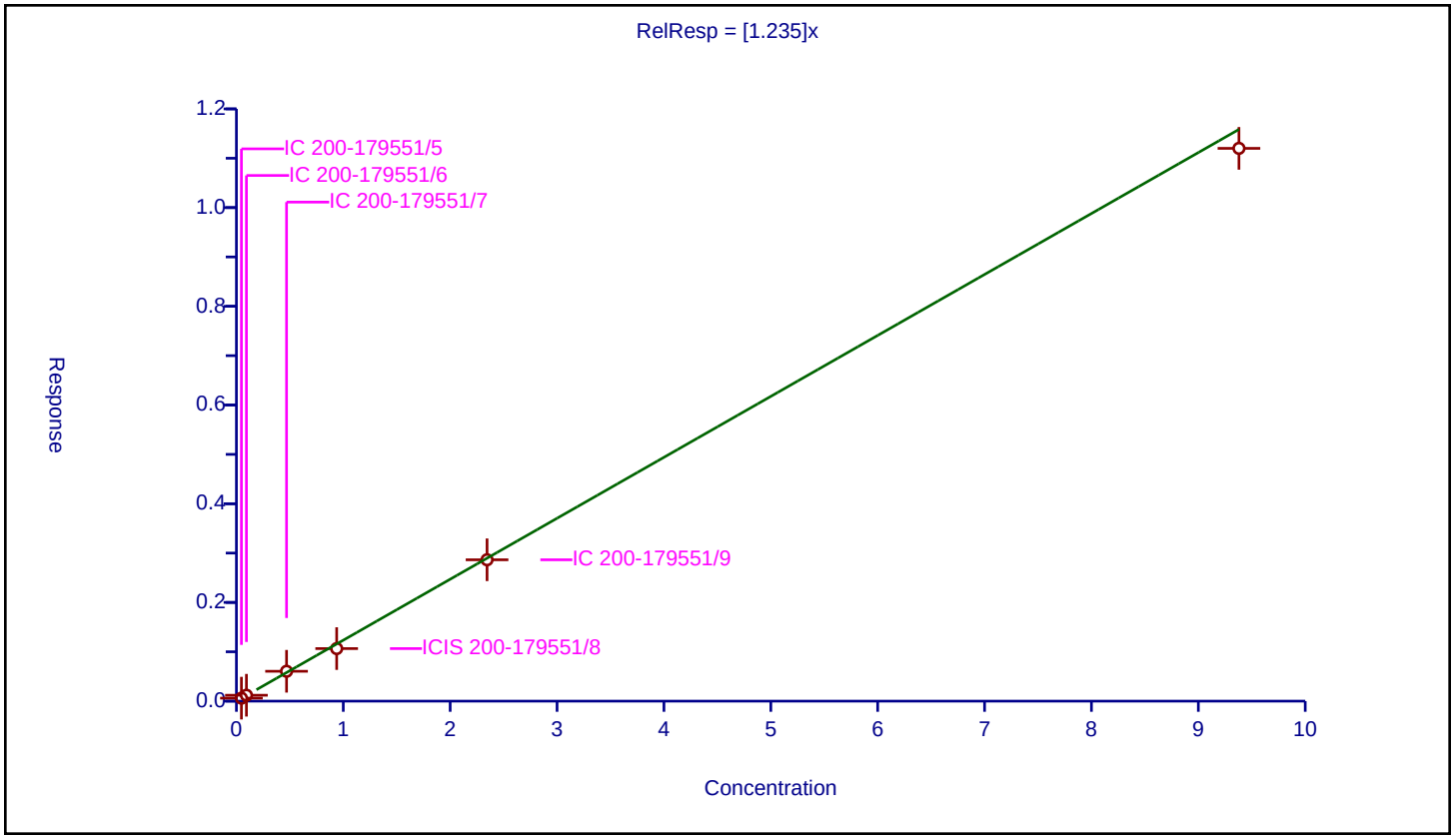
Curve Coefficients

Intercept:	0
Slope:	1.235

Error Coefficients

Standard Error:	6060000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.0469	0.060671	1.1825	1458715.0	1.293627	Y
2	IC 200-179551/6	0.0938	0.119578	1.1825	1485765.0	1.274818	Y
3	IC 200-179551/7	0.469	0.605342	1.1825	1420232.0	1.290708	Y
4	ICIS 200-179551/8	0.938	1.065061	1.1825	1479084.0	1.135459	Y
5	IC 200-179551/9	2.345	2.864053	1.1825	1493087.0	1.221345	Y
6	IC 200-179551/10	9.38	11.200247	1.1825	1370449.0	1.194056	Y



Calibration / Perfluoro(2-propoxypropanoic) acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

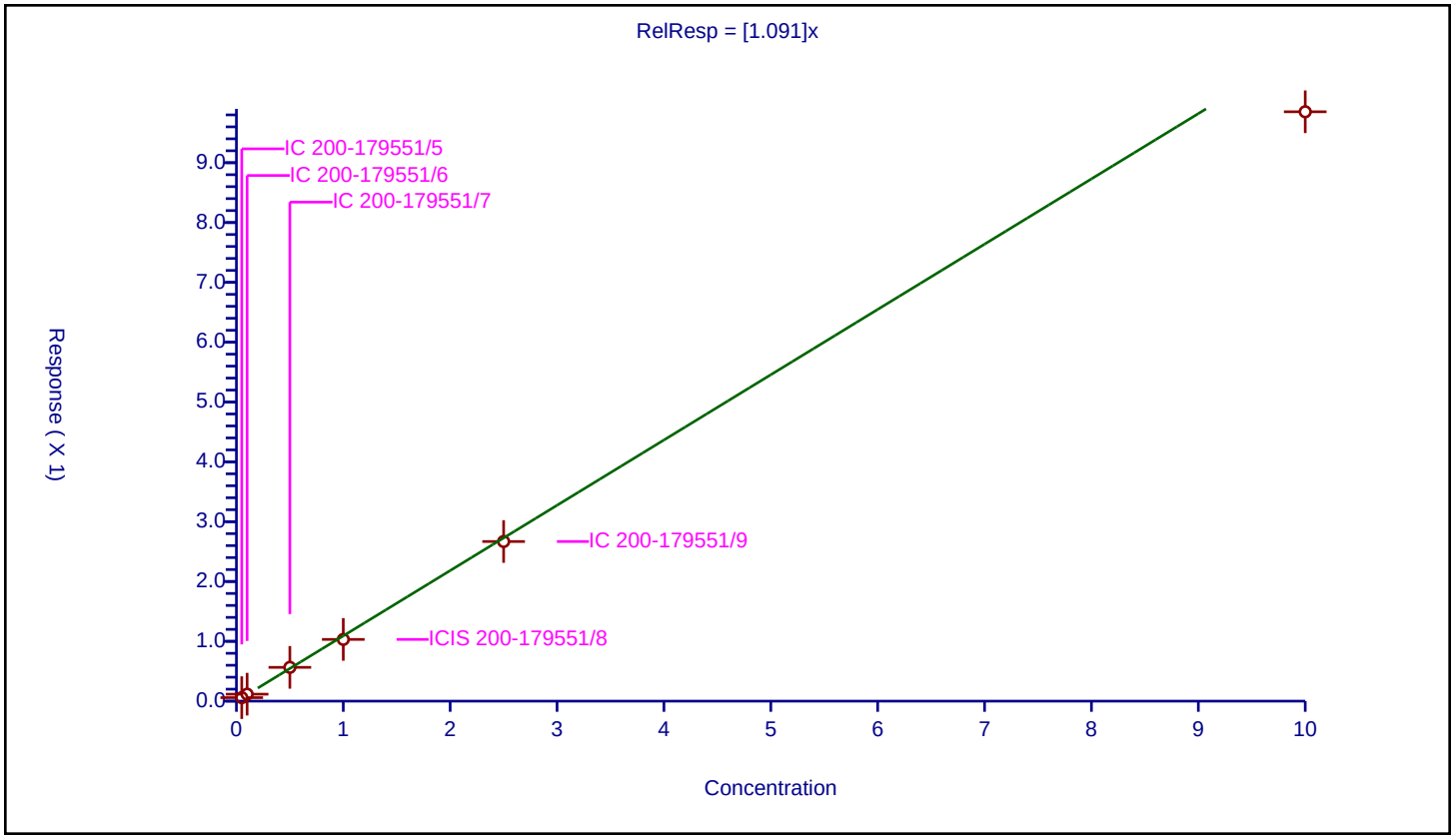
Curve Coefficients

Intercept:	0
Slope:	1.091

Error Coefficients

Standard Error:	868000
Relative Standard Error:	6.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.05	0.058511	1.25	245807.0	1.170227	Y
2	IC 200-179551/6	0.1	0.116359	1.25	236016.0	1.163586	Y
3	IC 200-179551/7	0.5	0.564734	1.25	230708.0	1.129469	Y
4	ICIS 200-179551/8	1.0	1.031635	1.25	232730.0	1.031635	Y
5	IC 200-179551/9	2.5	2.668367	1.25	238207.0	1.067347	Y
6	IC 200-179551/10	10.0	9.852016	1.25	235980.0	0.985202	Y



Calibration / Perfluoroheptanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

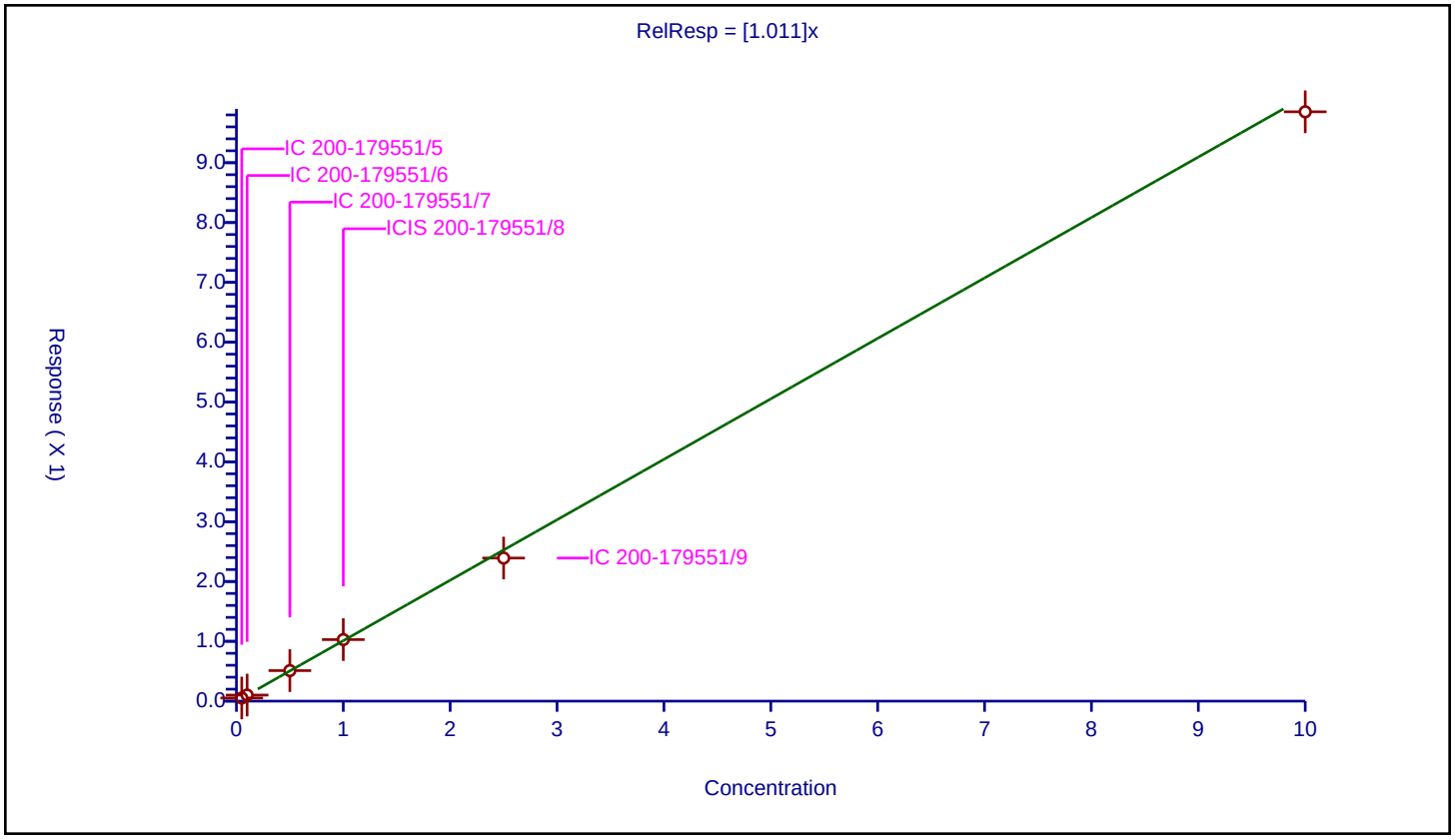
Curve Coefficients

Intercept:	0
Slope:	1.011

Error Coefficients

Standard Error:	5110000
Relative Standard Error:	3.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.05	0.052862	1.25	1473031.0	1.057242	Y
2	IC 200-179551/6	0.1	0.101452	1.25	1574522.0	1.014522	Y
3	IC 200-179551/7	0.5	0.510535	1.25	1497120.0	1.02107	Y
4	ICIS 200-179551/8	1.0	1.028647	1.25	1463358.0	1.028647	Y
5	IC 200-179551/9	2.5	2.391893	1.25	1561665.0	0.956757	Y
6	IC 200-179551/10	10.0	9.851407	1.25	1389706.0	0.985141	Y



Calibration / Perfluorohexanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

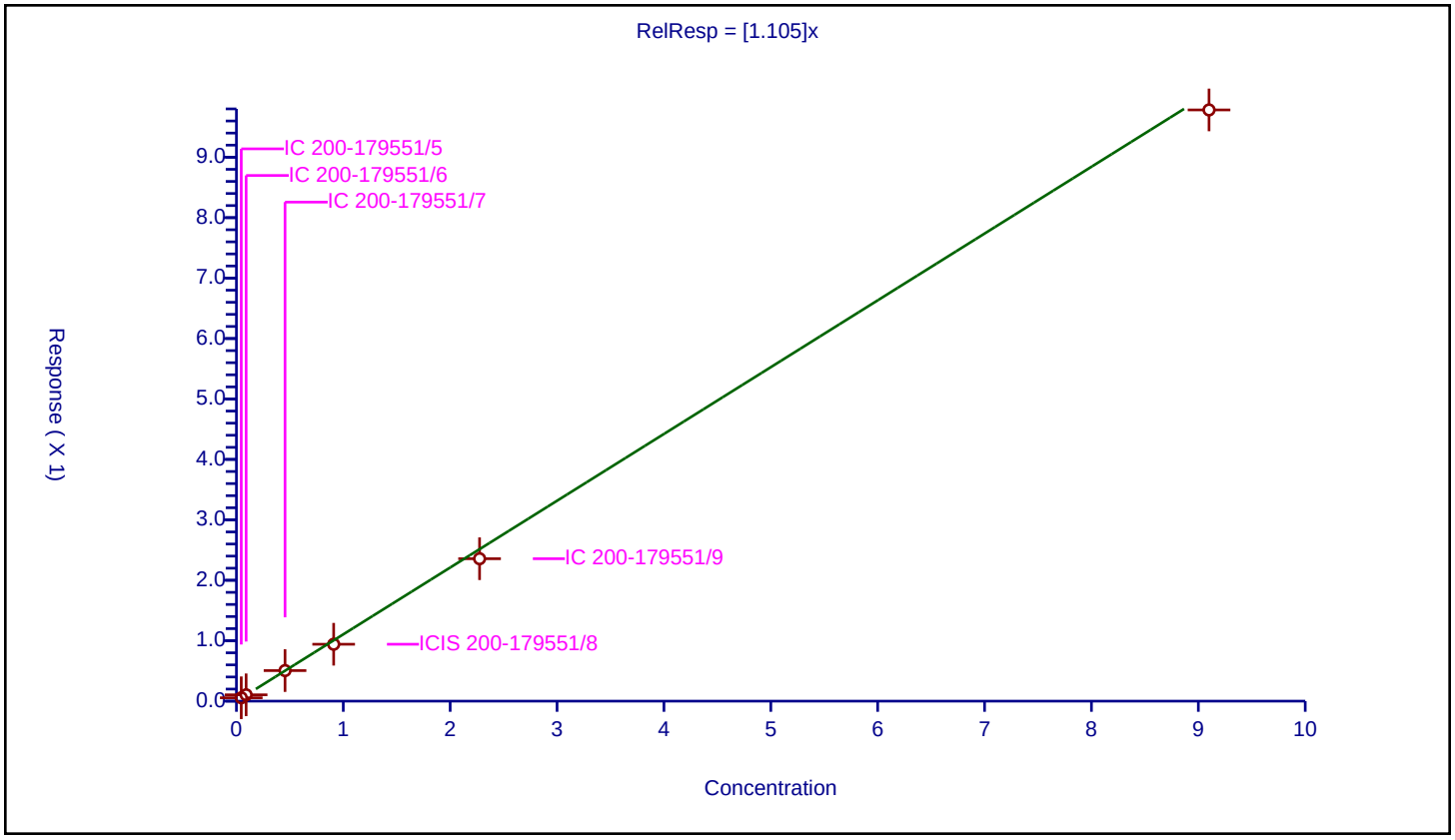
Curve Coefficients

Intercept:	0
Slope:	1.105

Error Coefficients

Standard Error:	5280000
Relative Standard Error:	6.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.0455	0.055778	1.1825	1458715.0	1.225891	Y
2	IC 200-179551/6	0.091	0.104495	1.1825	1485765.0	1.148298	Y
3	IC 200-179551/7	0.455	0.505927	1.1825	1420232.0	1.111928	Y
4	ICIS 200-179551/8	0.91	0.941428	1.1825	1479084.0	1.034536	Y
5	IC 200-179551/9	2.275	2.356892	1.1825	1493087.0	1.035996	Y
6	IC 200-179551/10	9.1	9.782868	1.1825	1370449.0	1.07504	Y



Calibration / DONA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

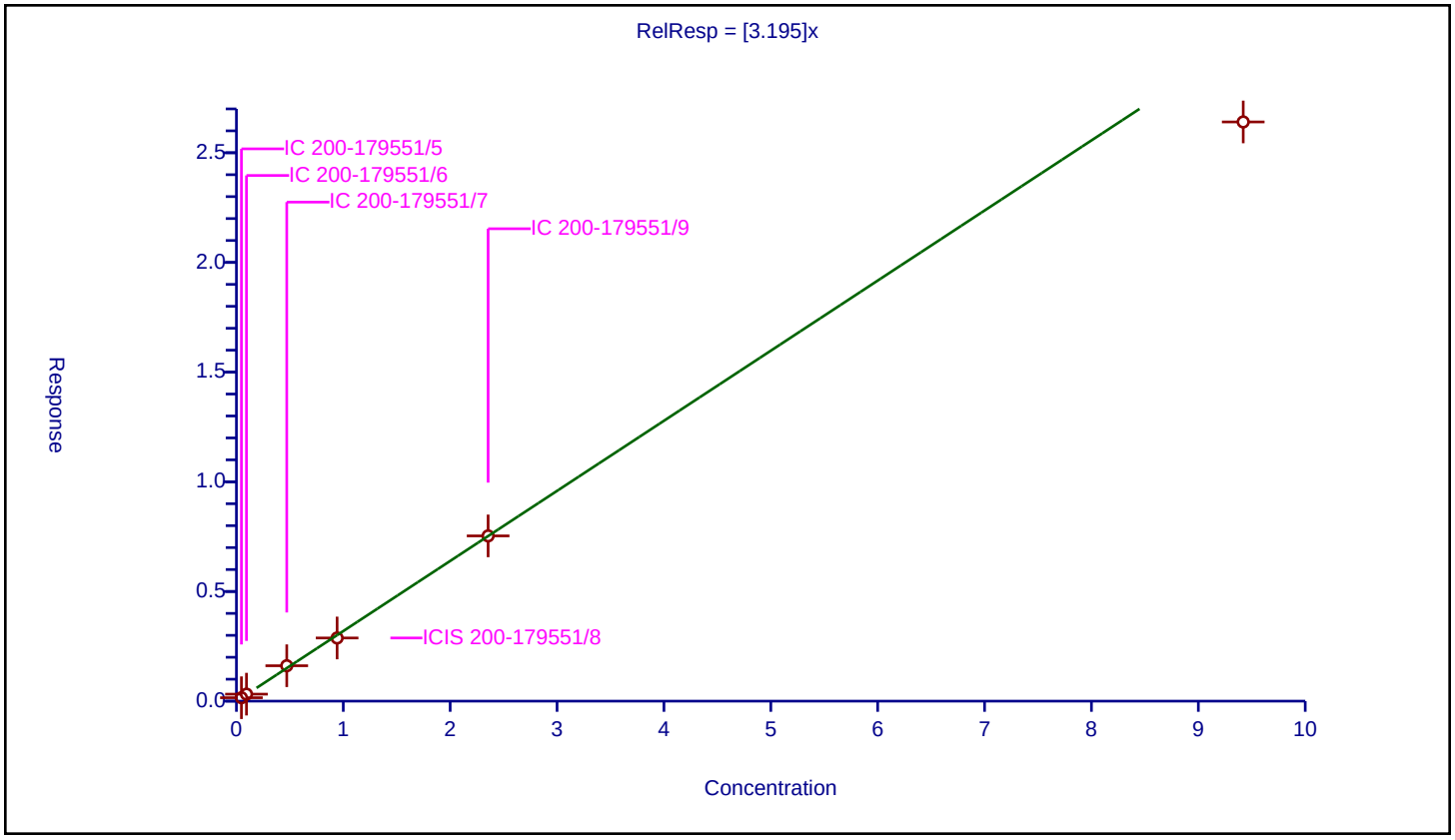
Curve Coefficients

Intercept:	0
Slope:	3.195

Error Coefficients

Standard Error:	11600000
Relative Standard Error:	7.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.0471	0.155898	1.195	1162494.0	3.309929	Y
2	IC 200-179551/6	0.0942	0.318151	1.195	1156161.0	3.377403	Y
3	IC 200-179551/7	0.471	1.613713	1.195	1115109.0	3.426142	Y
4	ICIS 200-179551/8	0.942	2.879199	1.195	1190325.0	3.056474	Y
5	IC 200-179551/9	2.355	7.533207	1.195	1168859.0	3.198814	Y
6	IC 200-179551/10	9.42	26.40519	1.195	1115869.0	2.803099	Y



Calibration / 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

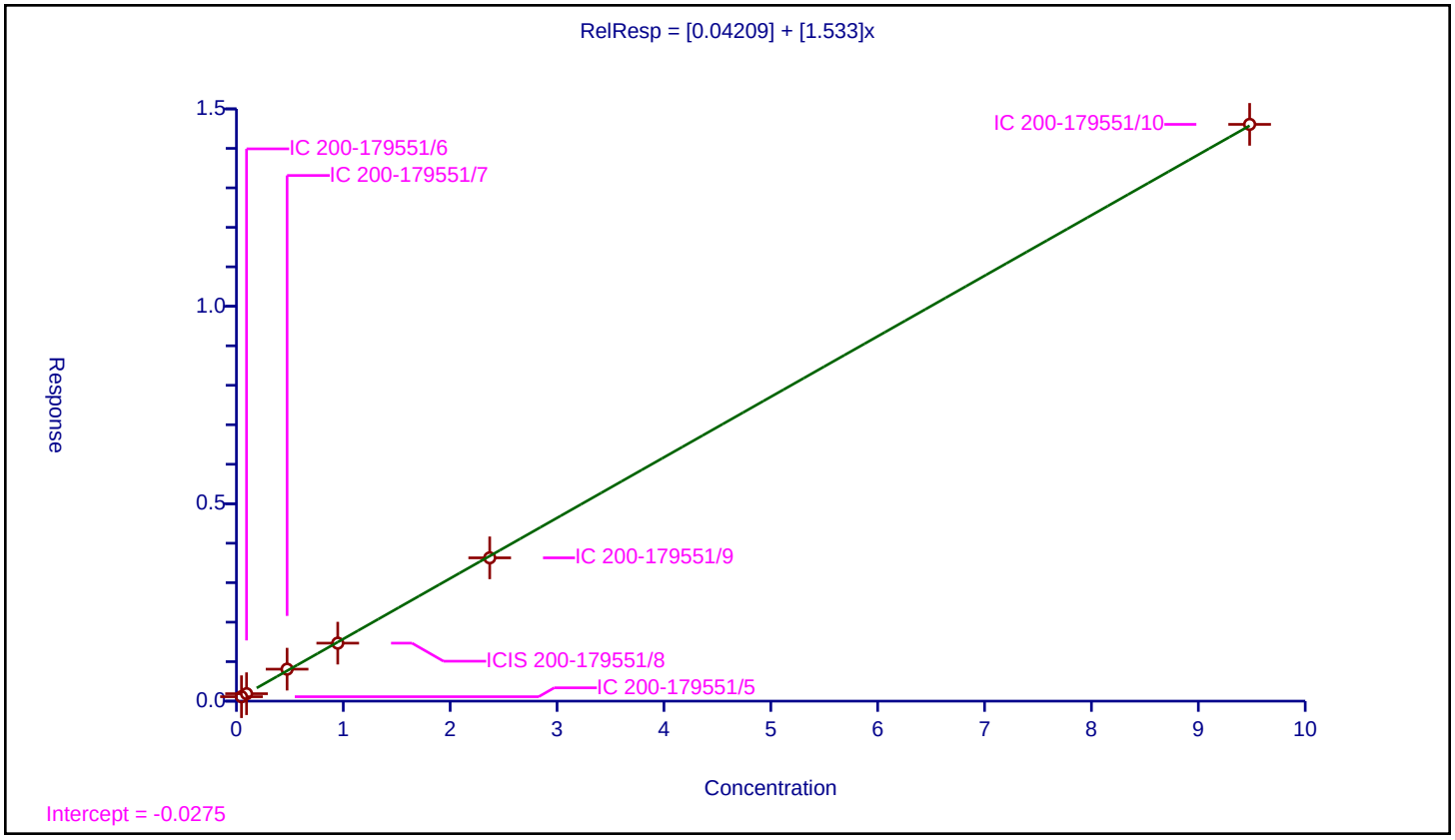
Curve Coefficients

Intercept:	0.04209
Slope:	1.533

Error Coefficients

Standard Error:	1330000
Relative Standard Error:	3.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.0474	0.112304	1.1875	252231.0	2.369289	Y
2	IC 200-179551/6	0.0948	0.188268	1.1875	243778.0	1.985953	Y
3	IC 200-179551/7	0.474	0.809938	1.1875	244497.0	1.708731	Y
4	ICIS 200-179551/8	0.948	1.468727	1.1875	241054.0	1.54929	Y
5	IC 200-179551/9	2.37	3.629415	1.1875	240108.0	1.531399	Y
6	IC 200-179551/10	9.48	14.608294	1.1875	206459.0	1.540959	Y



Calibration / Perfluoroheptanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

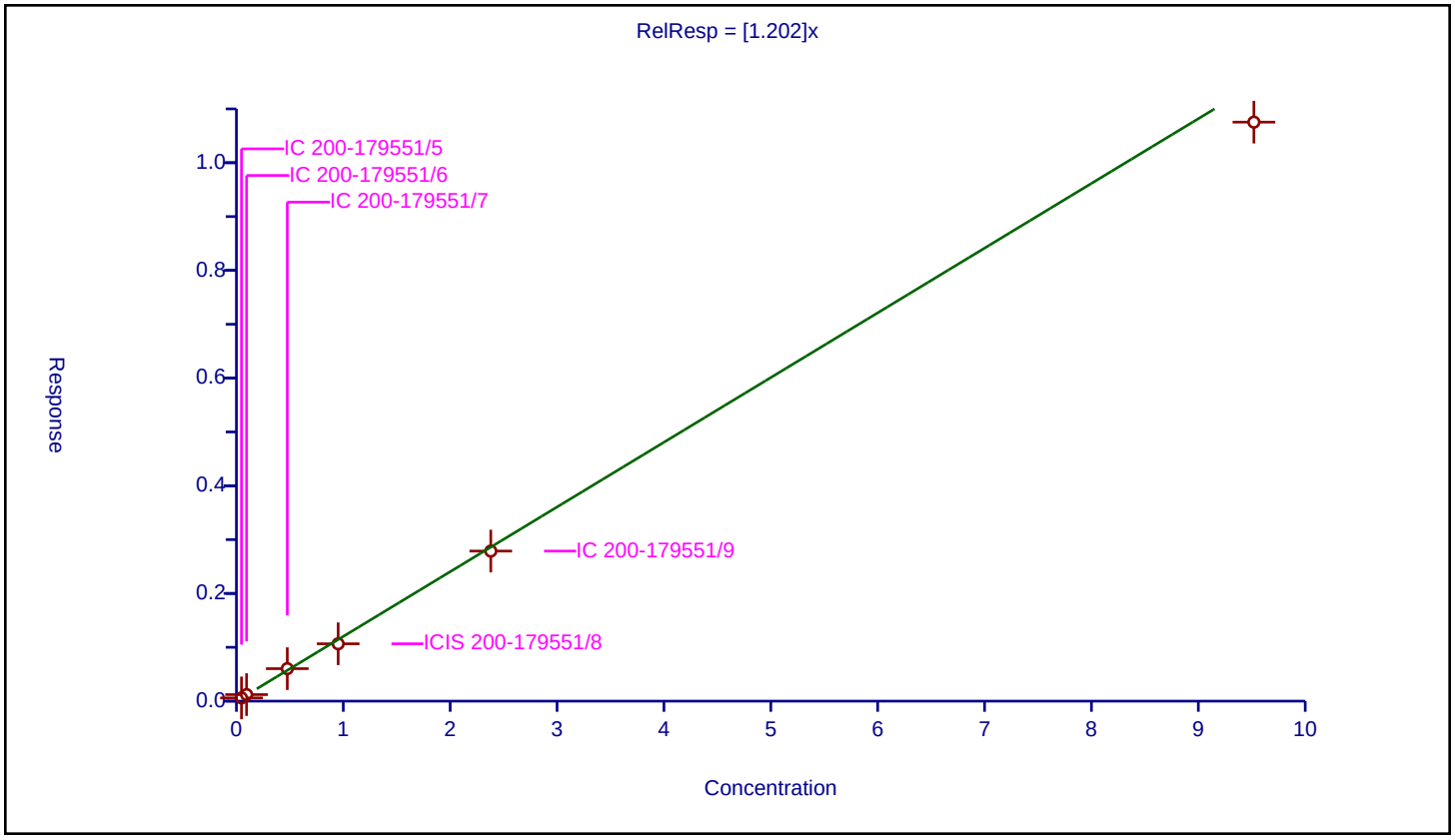
Curve Coefficients

Intercept:	0
Slope:	1.202

Error Coefficients

Standard Error:	4680000
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.0476	0.059451	1.195	1162494.0	1.248974	Y
2	IC 200-179551/6	0.0952	0.121498	1.195	1156161.0	1.276238	Y
3	IC 200-179551/7	0.476	0.603087	1.195	1115109.0	1.26699	Y
4	ICIS 200-179551/8	0.952	1.06528	1.195	1190325.0	1.118991	Y
5	IC 200-179551/9	2.38	2.787087	1.195	1168859.0	1.171045	Y
6	IC 200-179551/10	9.52	10.754149	1.195	1115869.0	1.129637	Y



Calibration / Perfluorooctanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

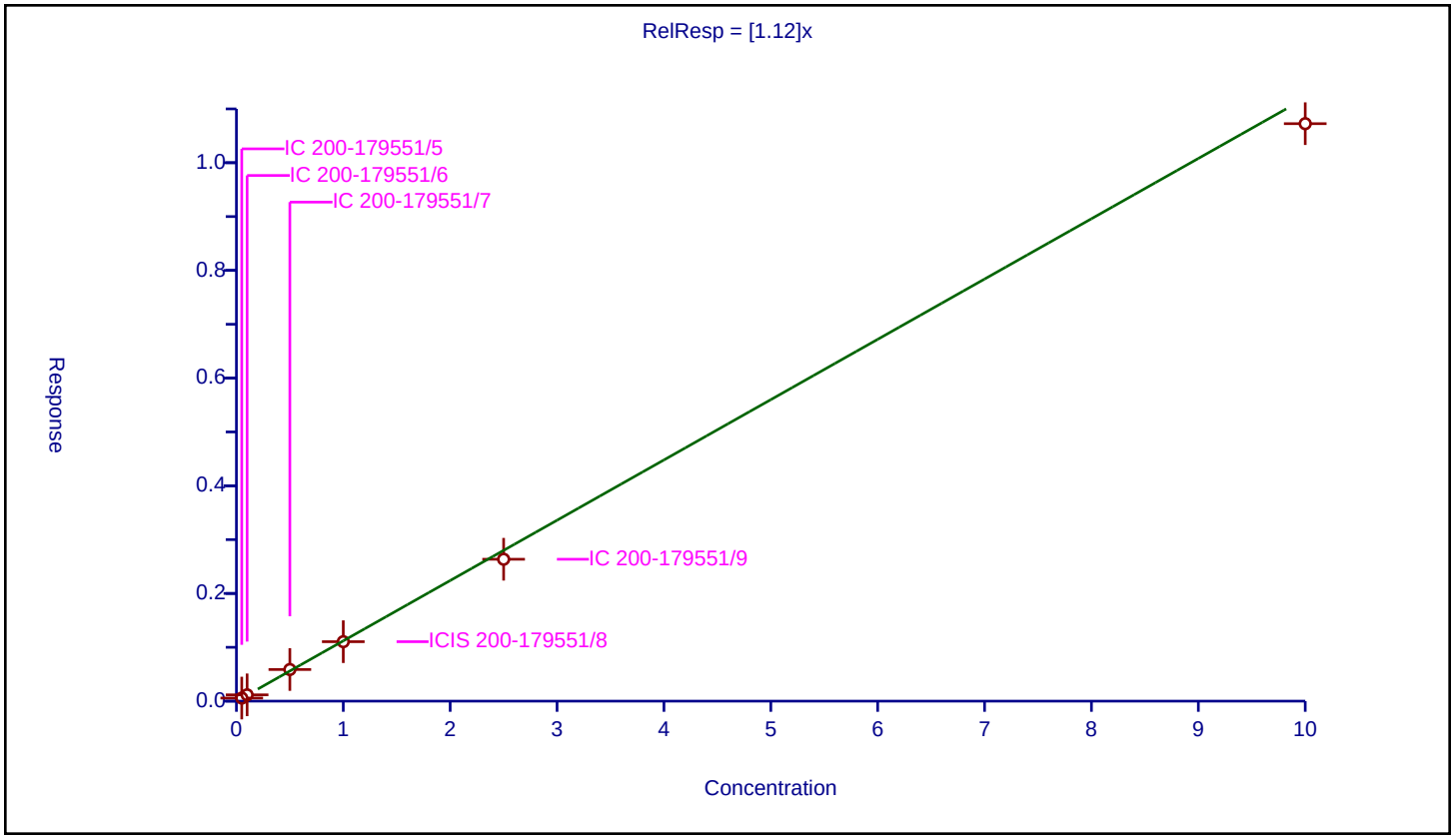
Curve Coefficients

Intercept:	0
Slope:	1.12

Error Coefficients

Standard Error:	5680000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.05	0.057263	1.25	1665838.0	1.145264	Y
2	IC 200-179551/6	0.1	0.116885	1.25	1629748.0	1.168854	Y
3	IC 200-179551/7	0.5	0.587358	1.25	1548287.0	1.174716	Y
4	ICIS 200-179551/8	1.0	1.104139	1.25	1507252.0	1.104139	Y
5	IC 200-179551/9	2.5	2.635413	1.25	1662606.0	1.054165	Y
6	IC 200-179551/10	10.0	10.72557	1.25	1412485.0	1.072557	Y



Calibration / Perfluorooctanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

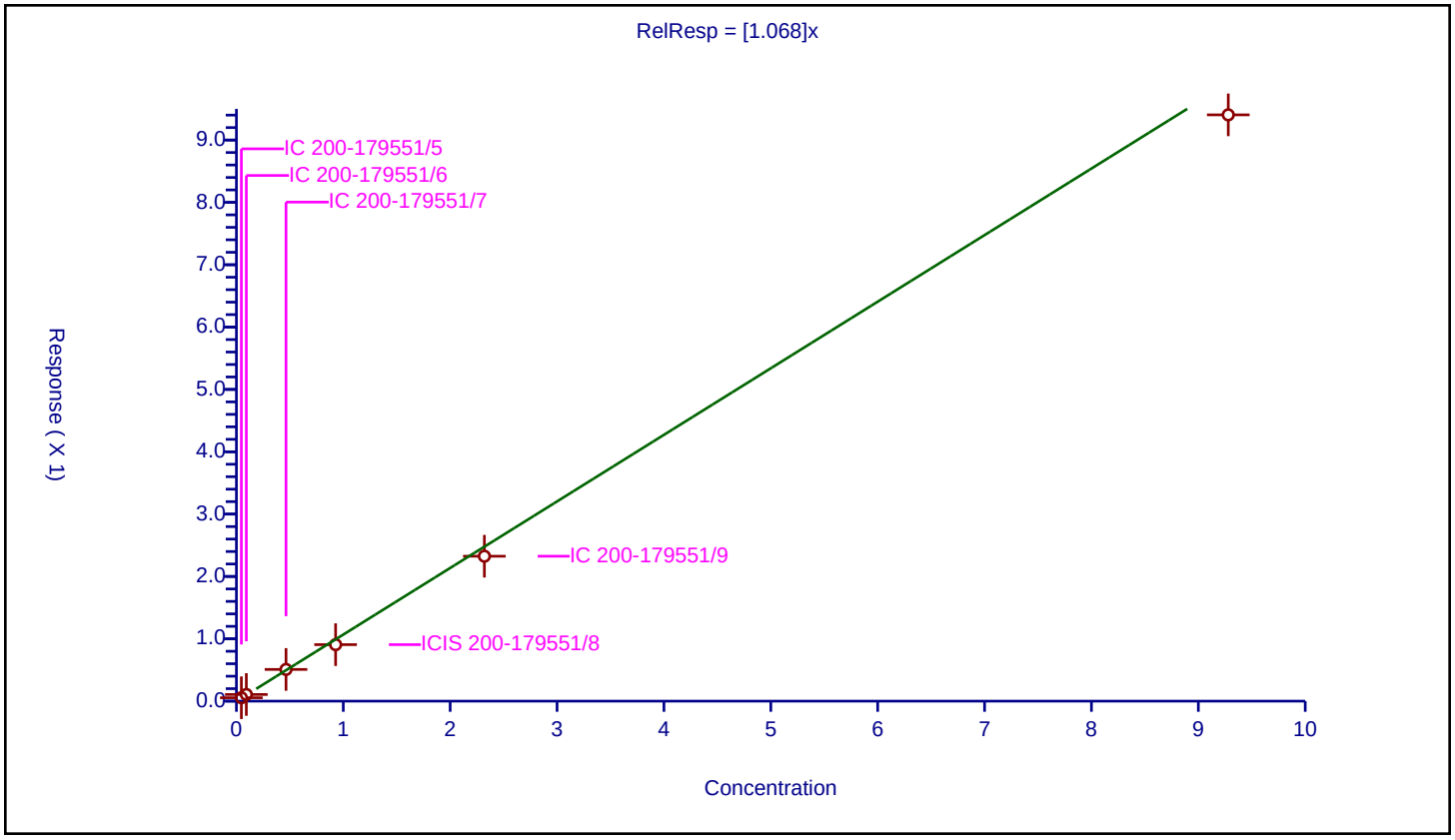
Curve Coefficients

Intercept:	0
Slope:	1.068

Error Coefficients

Standard Error:	4080000
Relative Standard Error:	7.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.0464	0.054282	1.195	1162494.0	1.169861	Y
2	IC 200-179551/6	0.0928	0.10669	1.195	1156161.0	1.149672	Y
3	IC 200-179551/7	0.464	0.508418	1.195	1115109.0	1.095728	Y
4	ICIS 200-179551/8	0.928	0.906208	1.195	1190325.0	0.976517	Y
5	IC 200-179551/9	2.32	2.32495	1.195	1168859.0	1.002134	Y
6	IC 200-179551/10	9.28	9.404274	1.195	1115869.0	1.013392	Y



Calibration / Perfluorononanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

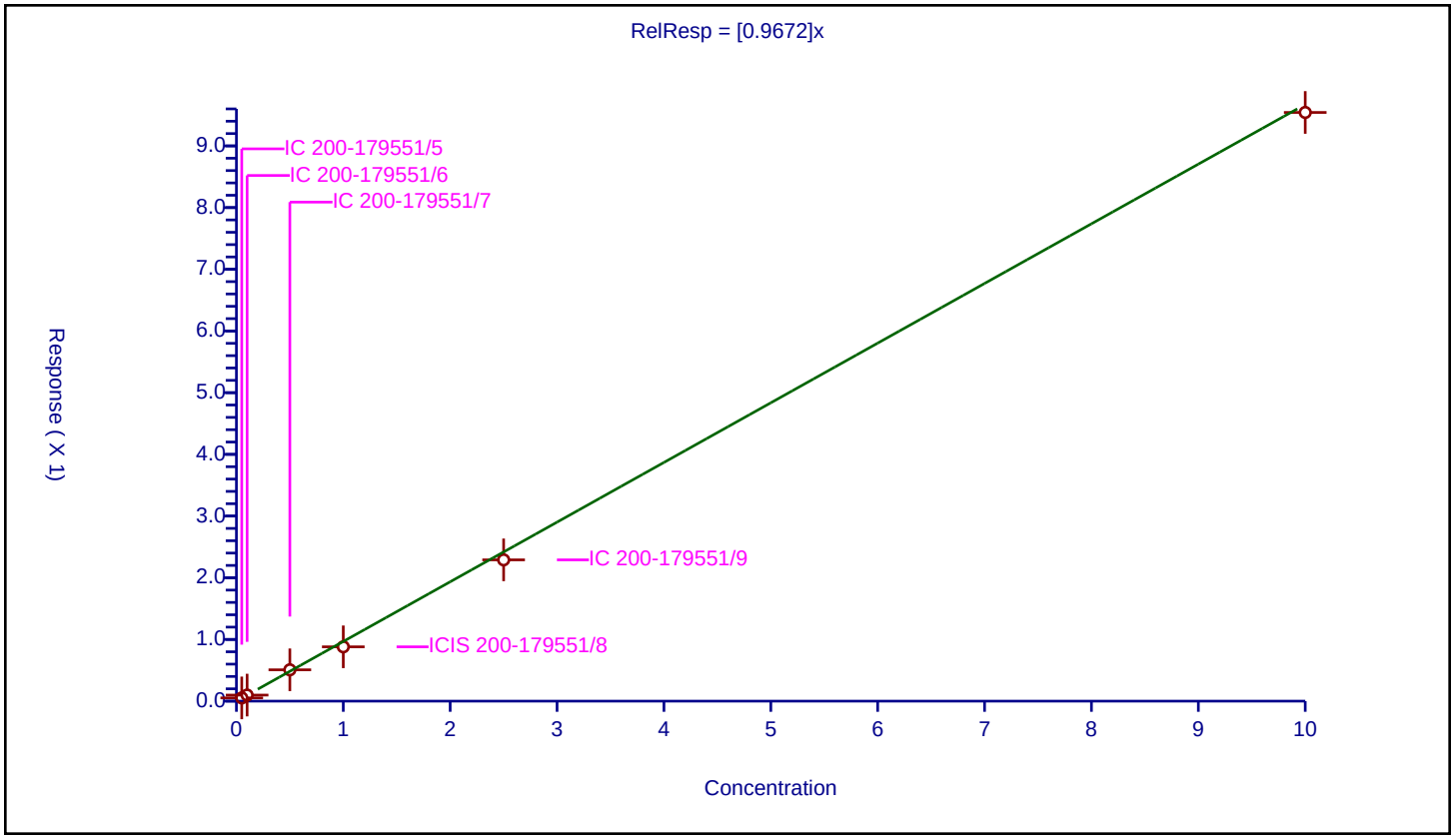
Curve Coefficients

Intercept:	0
Slope:	0.9672

Error Coefficients

Standard Error:	5630000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.05	0.052635	1.25	1734937.0	1.052704	Y
2	IC 200-179551/6	0.1	0.098396	1.25	1716741.0	0.983957	Y
3	IC 200-179551/7	0.5	0.50774	1.25	1729455.0	1.01548	Y
4	ICIS 200-179551/8	1.0	0.880663	1.25	1729599.0	0.880663	Y
5	IC 200-179551/9	2.5	2.290268	1.25	1738420.0	0.916107	Y
6	IC 200-179551/10	10.0	9.541952	1.25	1584674.0	0.954195	Y



Calibration / 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

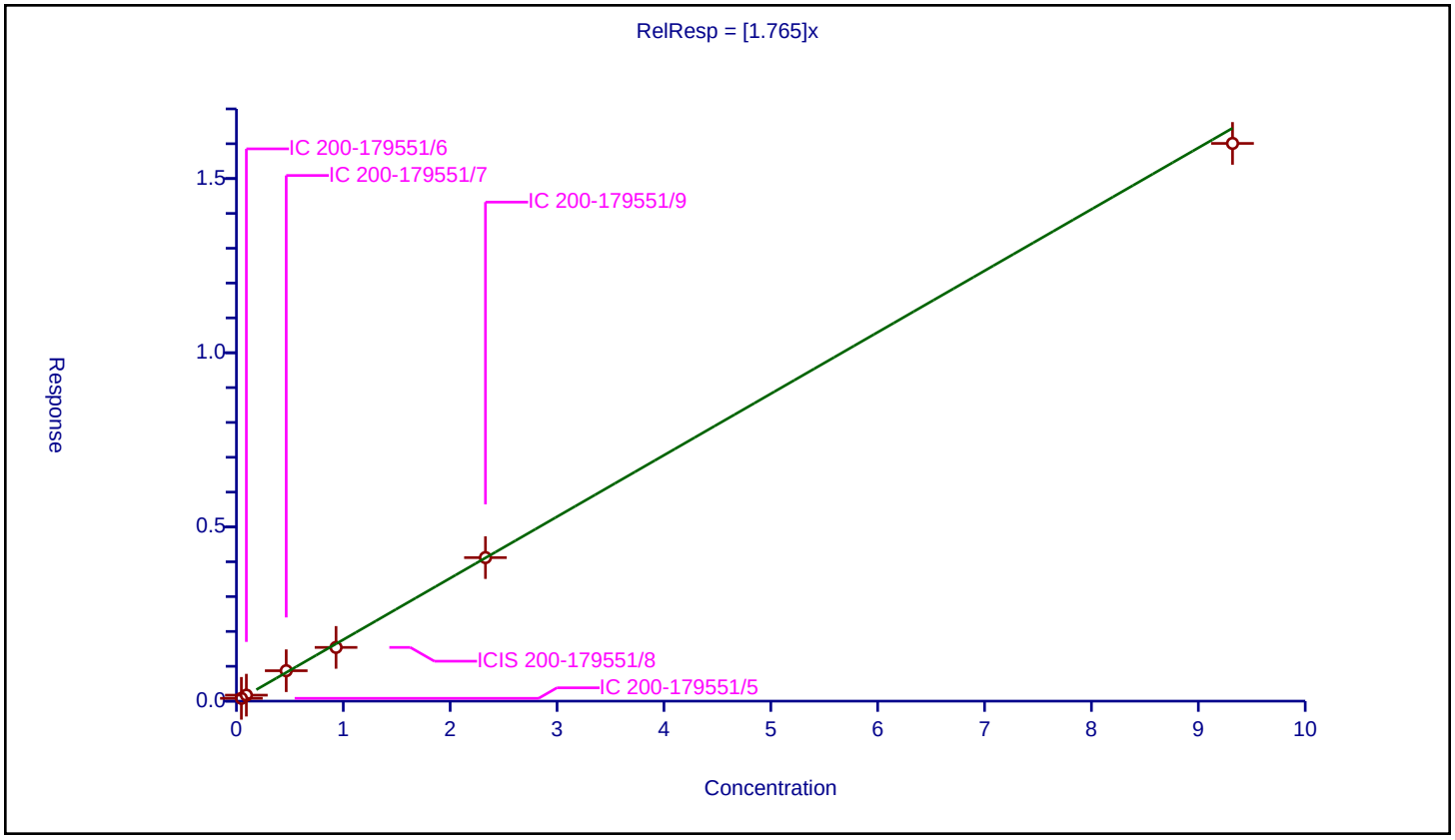
Curve Coefficients

Intercept:	0
Slope:	1.765

Error Coefficients

Standard Error:	6970000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.0466	0.080766	1.195	1162494.0	1.733175	Y
2	IC 200-179551/6	0.0932	0.171518	1.195	1156161.0	1.840317	Y
3	IC 200-179551/7	0.466	0.873145	1.195	1115109.0	1.873701	Y
4	ICIS 200-179551/8	0.932	1.542284	1.195	1190325.0	1.654811	Y
5	IC 200-179551/9	2.33	4.12063	1.195	1168859.0	1.768511	Y
6	IC 200-179551/10	9.32	16.0092	1.195	1115869.0	1.717725	Y



Calibration / Perfluorononanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

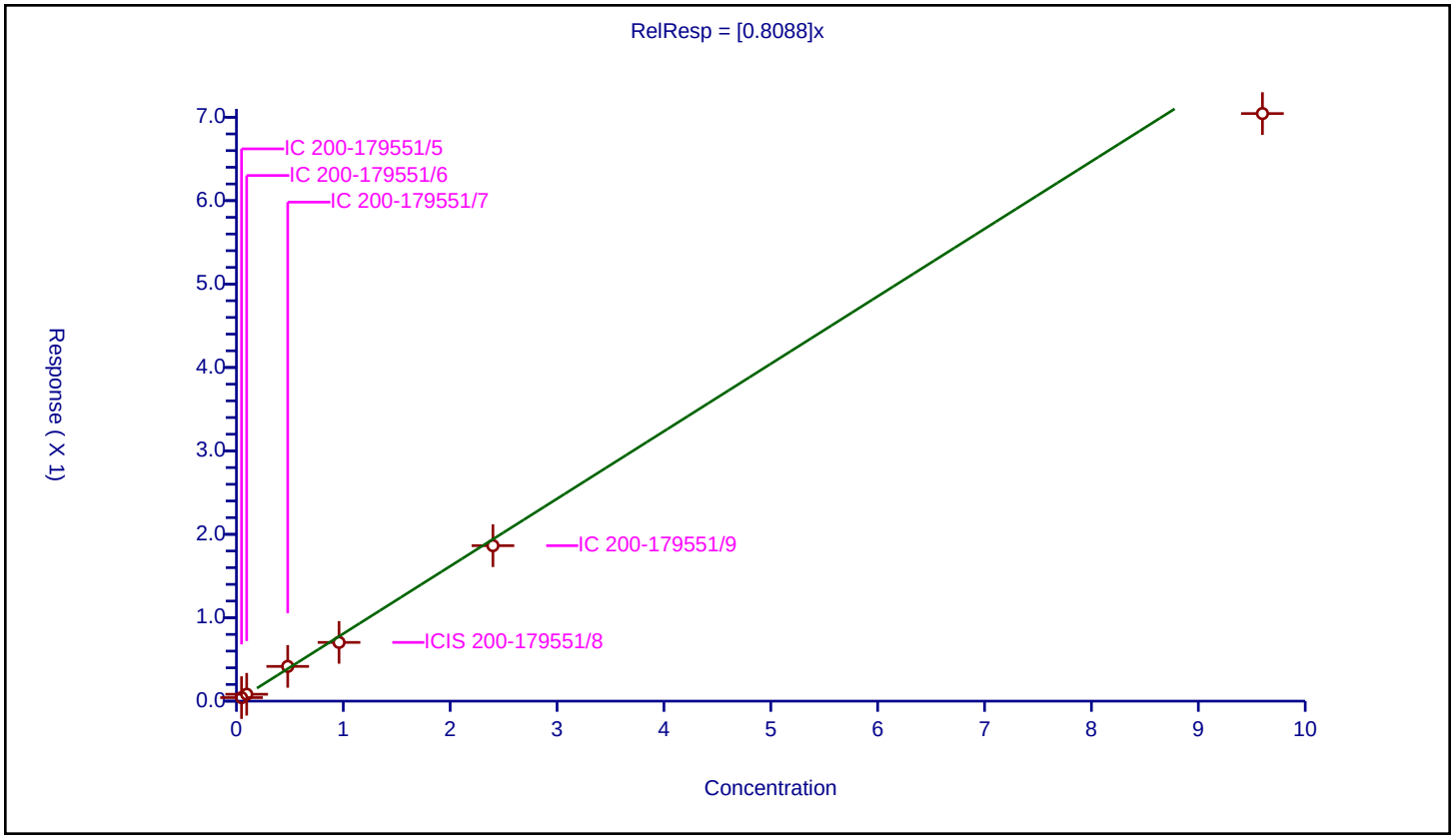
Curve Coefficients

Intercept:	0
Slope:	0.8088

Error Coefficients

Standard Error:	3070000
Relative Standard Error:	8.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.048	0.042252	1.195	1162494.0	0.880257	Y
2	IC 200-179551/6	0.096	0.082657	1.195	1156161.0	0.861015	Y
3	IC 200-179551/7	0.48	0.41644	1.195	1115109.0	0.867583	Y
4	ICIS 200-179551/8	0.96	0.704297	1.195	1190325.0	0.733643	Y
5	IC 200-179551/9	2.4	1.863832	1.195	1168859.0	0.776597	Y
6	IC 200-179551/10	9.6	7.044255	1.195	1115869.0	0.733777	Y



Calibration / Perfluorodecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

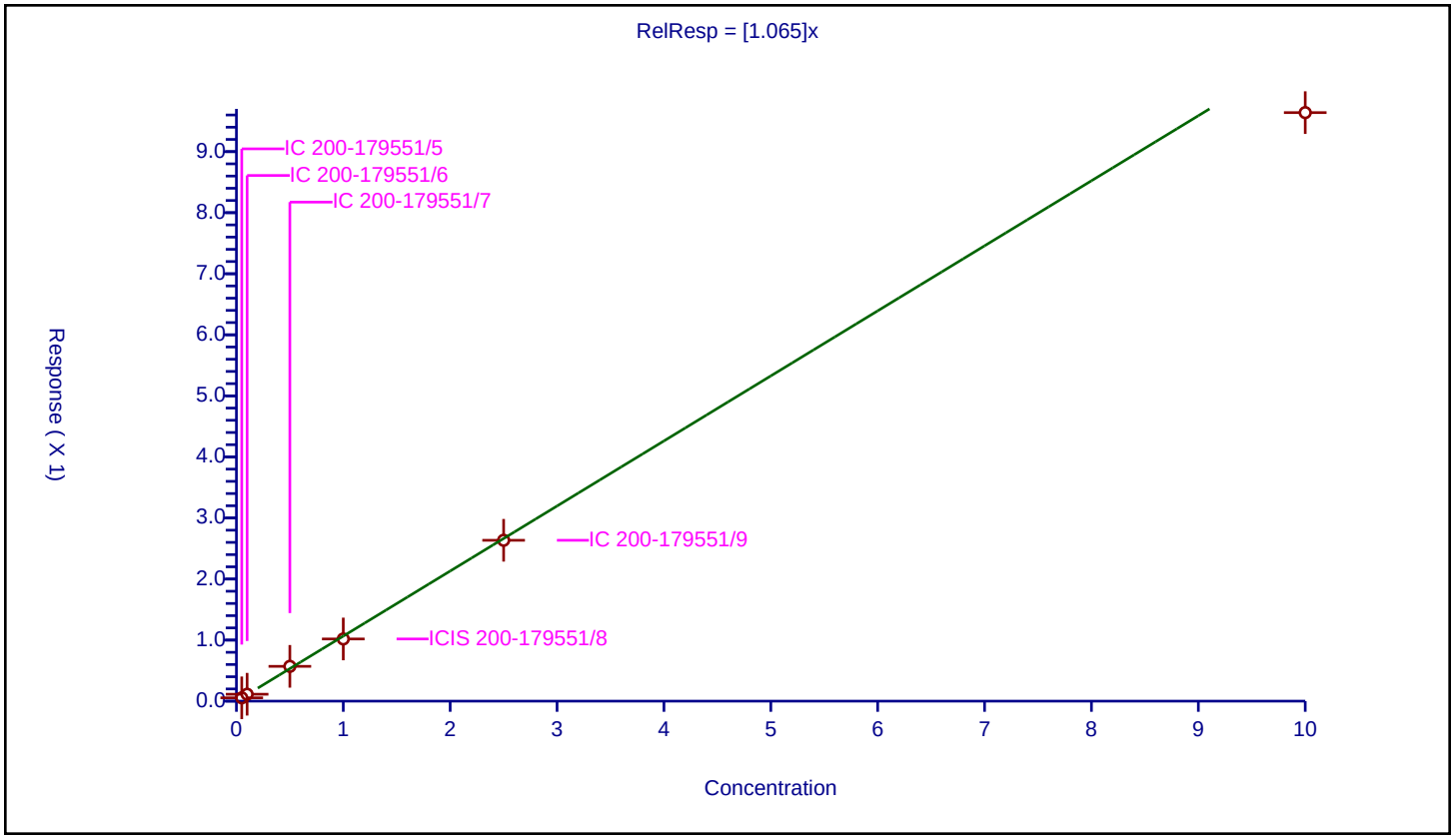
Curve Coefficients

Intercept:	0
Slope:	1.065

Error Coefficients

Standard Error:	5470000
Relative Standard Error:	6.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.05	0.05415	1.25	1692740.0	1.082993	Y
2	IC 200-179551/6	0.1	0.113327	1.25	1696948.0	1.13327	Y
3	IC 200-179551/7	0.5	0.569853	1.25	1603259.0	1.139705	Y
4	ICIS 200-179551/8	1.0	1.01856	1.25	1704667.0	1.01856	Y
5	IC 200-179551/9	2.5	2.634412	1.25	1648953.0	1.053765	Y
6	IC 200-179551/10	10.0	9.638946	1.25	1507228.0	0.963895	Y



Calibration / 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

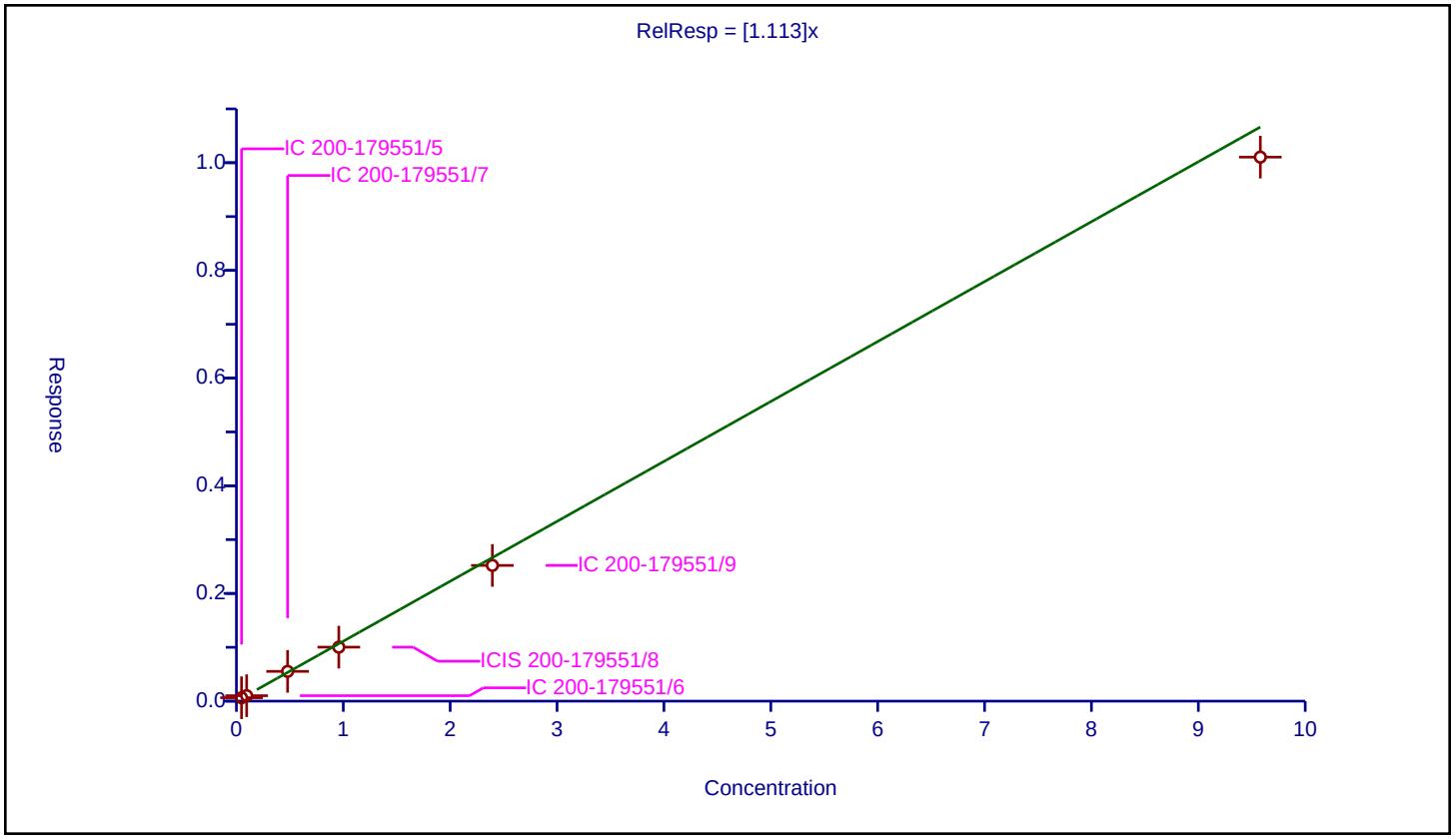
Curve Coefficients

Intercept:	0
Slope:	1.113

Error Coefficients

Standard Error:	1000000
Relative Standard Error:	9.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.0479	0.063073	1.1975	291300.0	1.31677	Y
2	IC 200-179551/6	0.0958	0.100937	1.1975	304283.0	1.053624	Y
3	IC 200-179551/7	0.479	0.552725	1.1975	287452.0	1.153914	Y
4	ICIS 200-179551/8	0.958	1.002967	1.1975	299016.0	1.046938	Y
5	IC 200-179551/9	2.395	2.520861	1.1975	294549.0	1.052552	Y
6	IC 200-179551/10	9.58	10.103991	1.1975	252791.0	1.054696	Y



Calibration / Perfluorooctanesulfonamide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

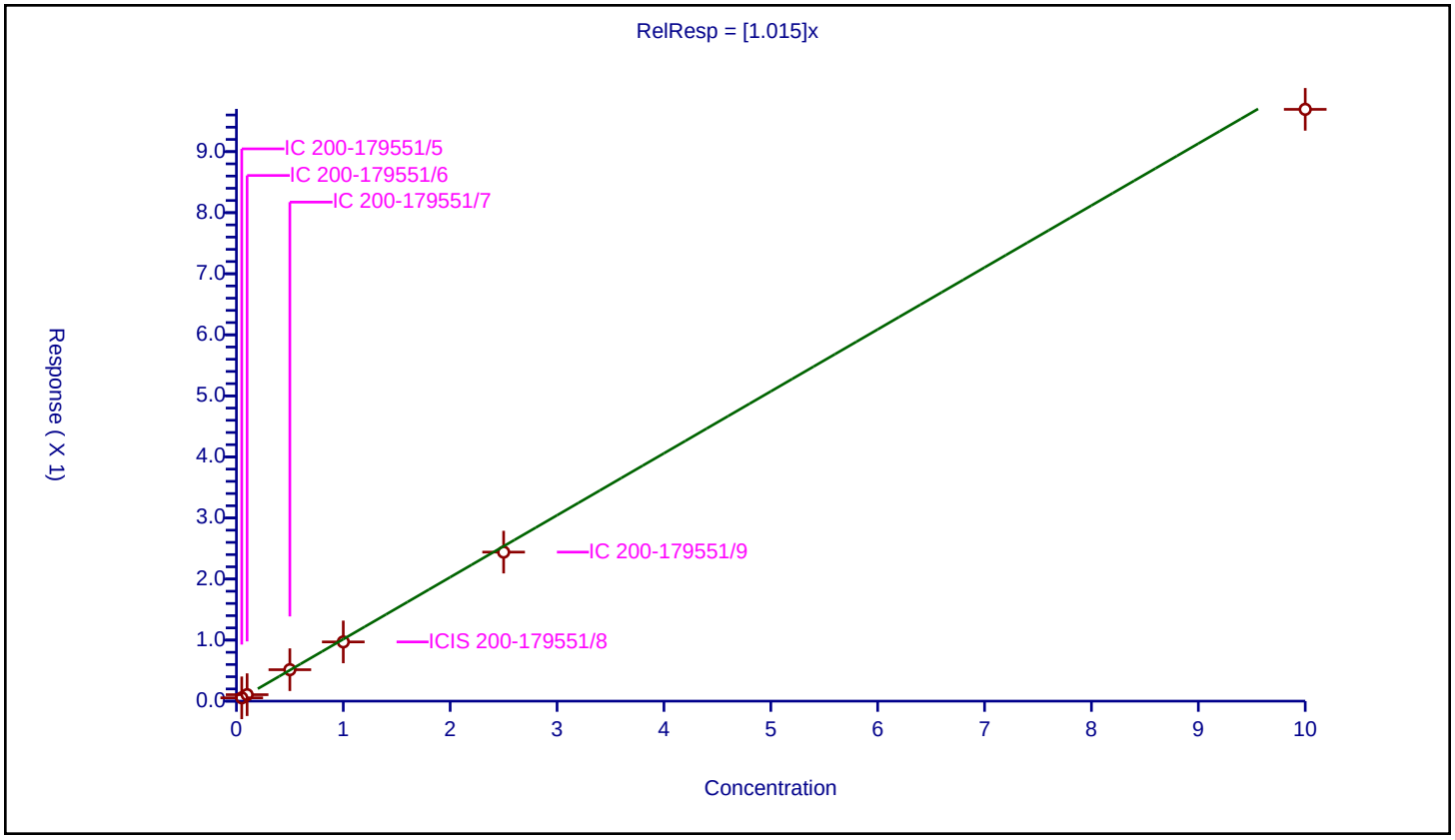
Curve Coefficients

Intercept:	0
Slope:	1.015

Error Coefficients

Standard Error:	6390000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.05	0.054199	1.25	1806437.0	1.083985	Y
2	IC 200-179551/6	0.1	0.10586	1.25	1793869.0	1.058599	Y
3	IC 200-179551/7	0.5	0.515082	1.25	1790546.0	1.030163	Y
4	ICIS 200-179551/8	1.0	0.969991	1.25	1815194.0	0.969991	Y
5	IC 200-179551/9	2.5	2.440756	1.25	1857858.0	0.976302	Y
6	IC 200-179551/10	10.0	9.692639	1.25	1769412.0	0.969264	Y



Calibration / N-methylperfluorooctanesulfonamidoacetic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

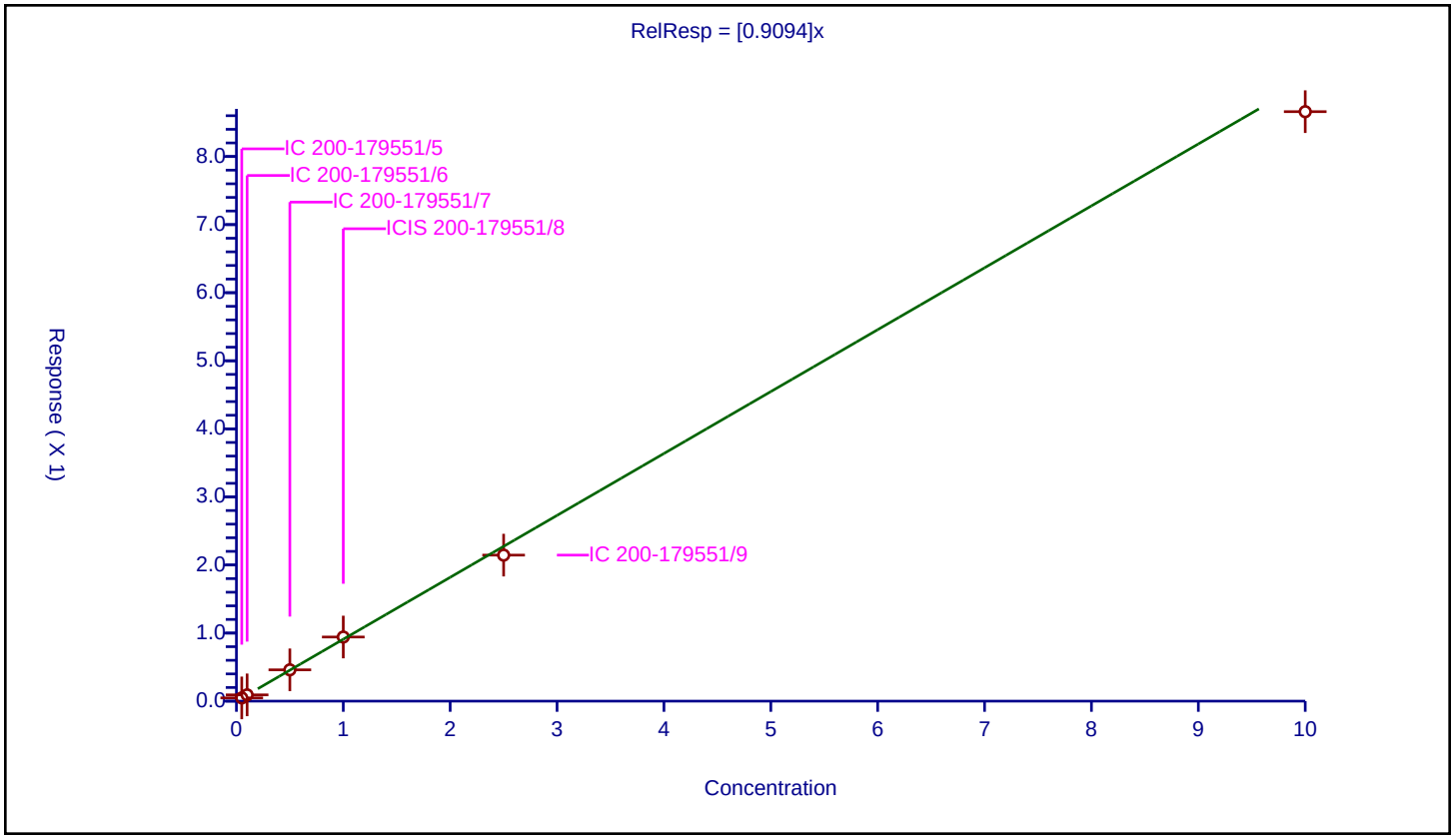
Curve Coefficients

Intercept:	0
Slope:	0.9094

Error Coefficients

Standard Error:	721000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.05	0.047461	1.25	212989.0	0.949227	Y
2	IC 200-179551/6	0.1	0.092211	1.25	212896.0	0.922105	Y
3	IC 200-179551/7	0.5	0.459725	1.25	211787.0	0.91945	Y
4	ICIS 200-179551/8	1.0	0.941819	1.25	212716.0	0.941819	Y
5	IC 200-179551/9	2.5	2.144995	1.25	231863.0	0.857998	Y
6	IC 200-179551/10	10.0	8.659113	1.25	224082.0	0.865911	Y



Calibration / Perfluorodecanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

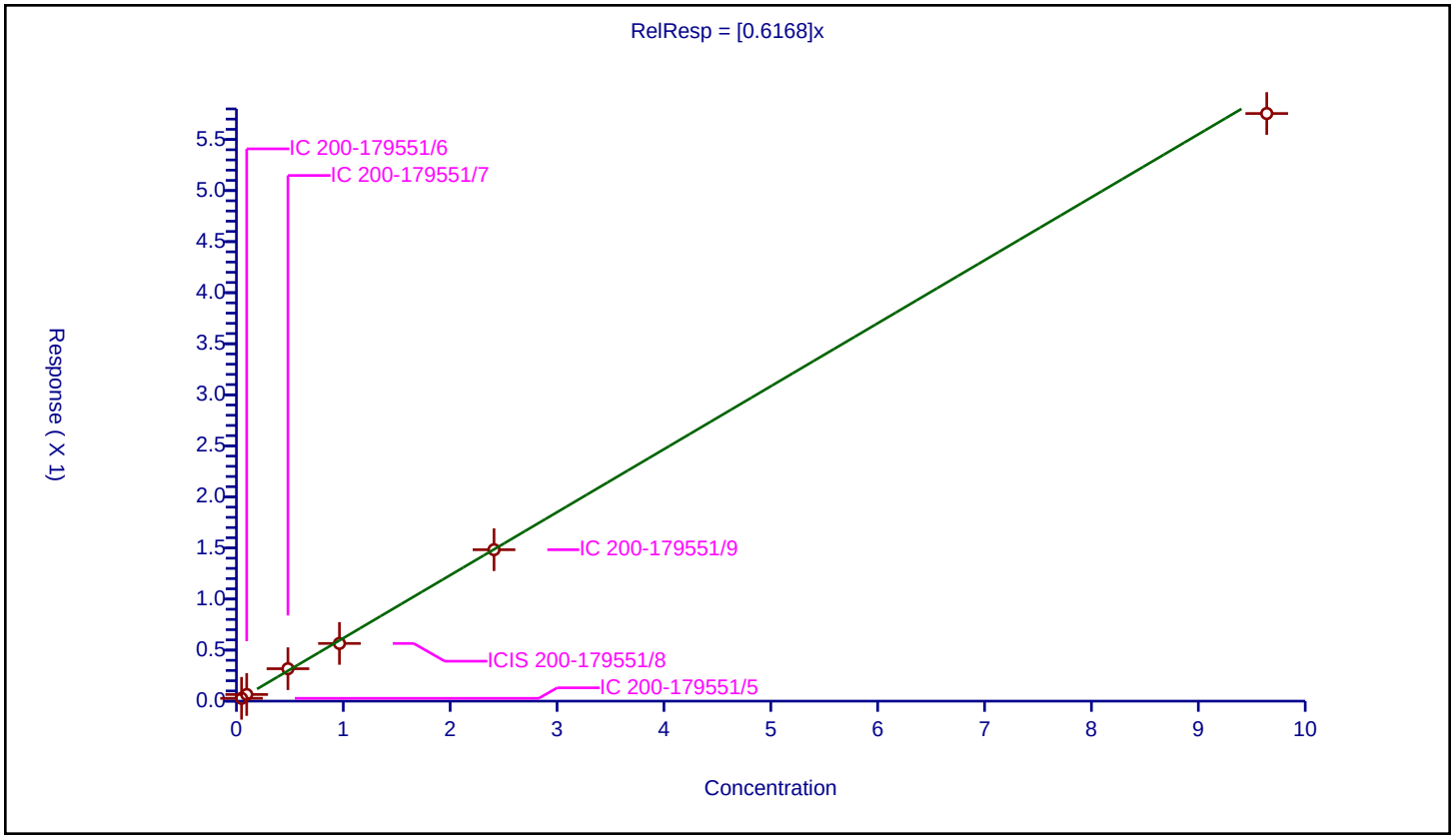
Curve Coefficients

Intercept:	0
Slope:	0.6168

Error Coefficients

Standard Error:	2510000
Relative Standard Error:	6.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.0482	0.027444	1.195	1162494.0	0.569367	Y
2	IC 200-179551/6	0.0964	0.064954	1.195	1156161.0	0.673798	Y
3	IC 200-179551/7	0.482	0.317561	1.195	1115109.0	0.658841	Y
4	ICIS 200-179551/8	0.964	0.565189	1.195	1190325.0	0.586296	Y
5	IC 200-179551/9	2.41	1.482969	1.195	1168859.0	0.61534	Y
6	IC 200-179551/10	9.64	5.754773	1.195	1115869.0	0.596968	Y



Calibration / Perfluoroundecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

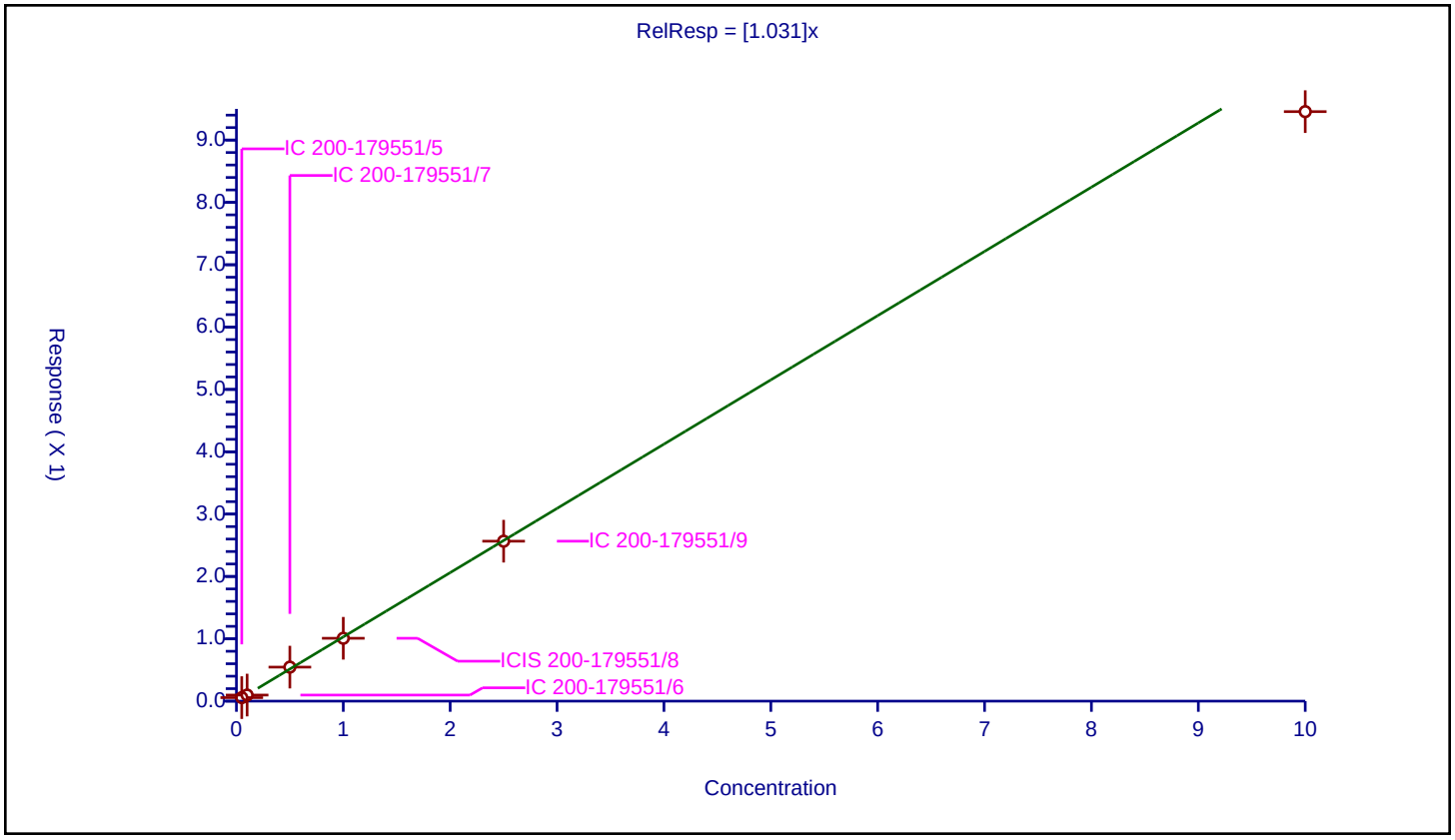
Curve Coefficients

Intercept:	0
Slope:	1.031

Error Coefficients

Standard Error:	4440000
Relative Standard Error:	6.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.05	0.056737	1.25	1254675.0	1.134736	Y
2	IC 200-179551/6	0.1	0.097654	1.25	1431508.0	0.97654	Y
3	IC 200-179551/7	0.5	0.545809	1.25	1342382.0	1.091617	Y
4	ICIS 200-179551/8	1.0	1.008669	1.25	1325739.0	1.008669	Y
5	IC 200-179551/9	2.5	2.565676	1.25	1302590.0	1.02627	Y
6	IC 200-179551/10	10.0	9.456095	1.25	1253108.0	0.94561	Y



Calibration / N-ethylperfluorooctanesulfonamidoacetic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

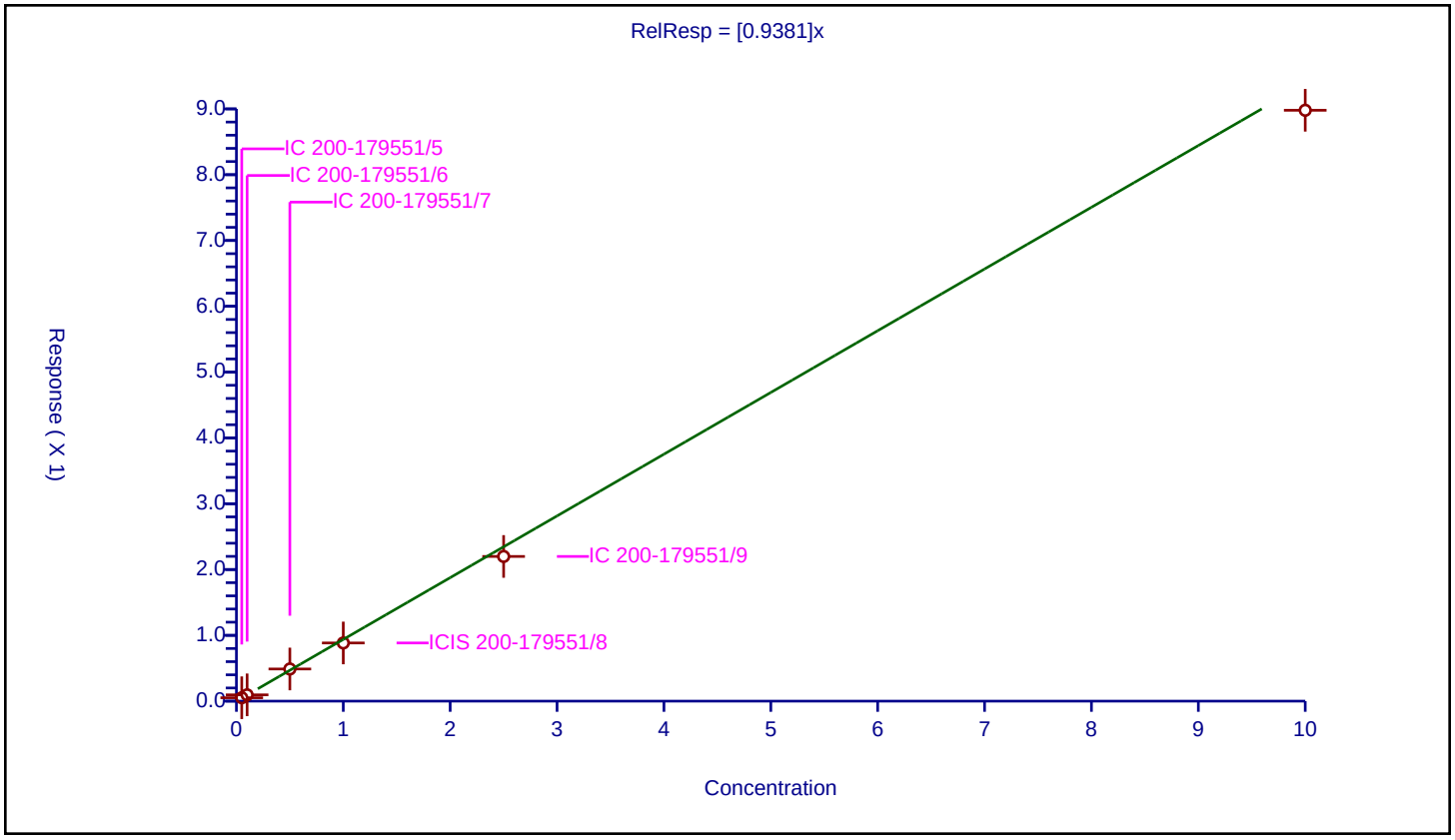
Curve Coefficients

Intercept:	0
Slope:	0.9381

Error Coefficients

Standard Error:	675000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.05	0.051629	1.25	215675.0	1.032572	Y
2	IC 200-179551/6	0.1	0.095765	1.25	220474.0	0.957653	Y
3	IC 200-179551/7	0.5	0.488543	1.25	204125.0	0.977085	Y
4	ICIS 200-179551/8	1.0	0.88414	1.25	215694.0	0.88414	Y
5	IC 200-179551/9	2.5	2.198637	1.25	219457.0	0.879455	Y
6	IC 200-179551/10	10.0	8.979015	1.25	201832.0	0.897901	Y



Calibration / 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

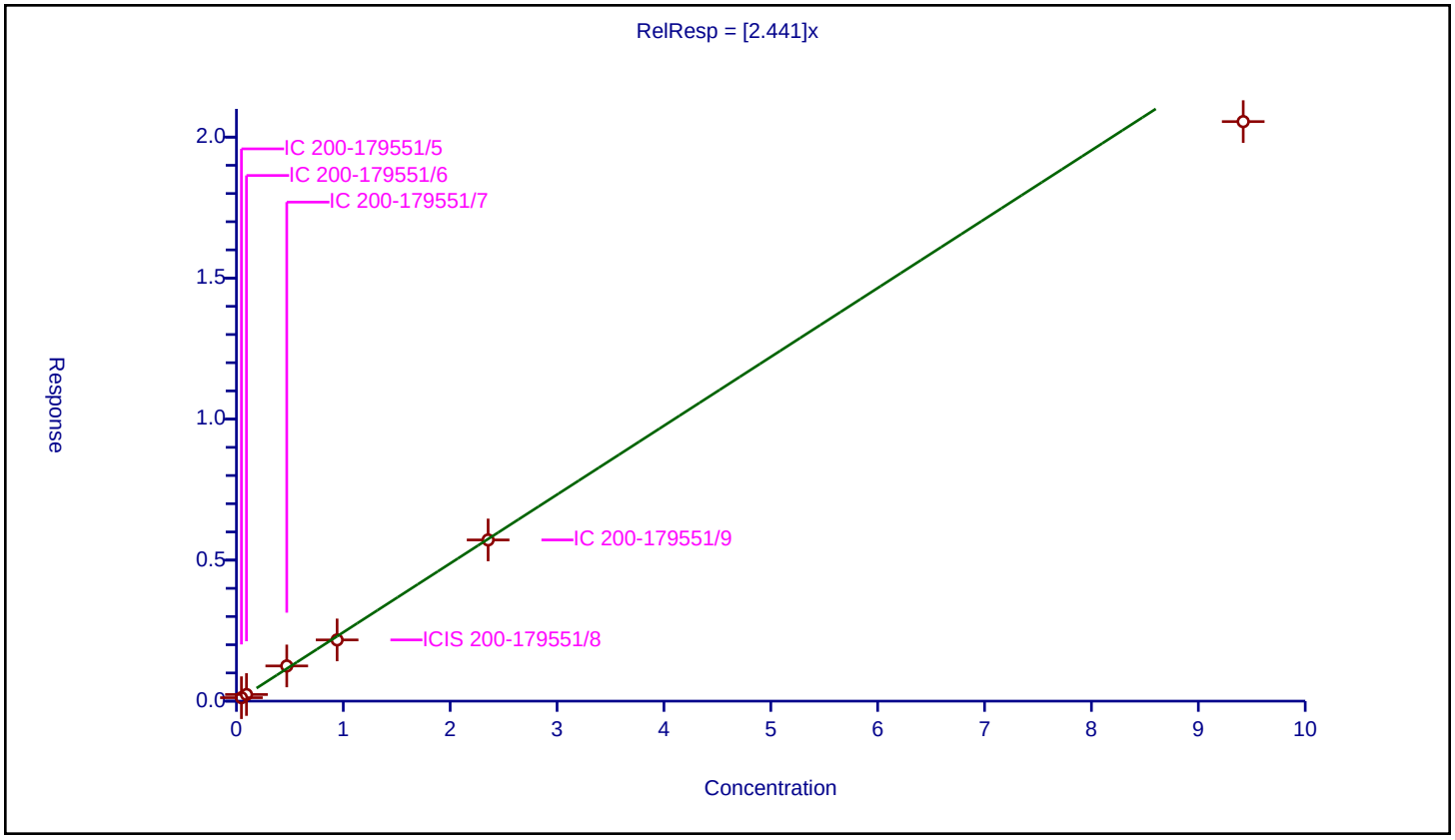
Curve Coefficients

Intercept:	0
Slope:	2.441

Error Coefficients

Standard Error:	9010000
Relative Standard Error:	7.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.0471	0.122073	1.195	1162494.0	2.591774	Y
2	IC 200-179551/6	0.0942	0.234931	1.195	1156161.0	2.493955	Y
3	IC 200-179551/7	0.471	1.24773	1.195	1115109.0	2.649109	Y
4	ICIS 200-179551/8	0.942	2.170753	1.195	1190325.0	2.304409	Y
5	IC 200-179551/9	2.355	5.716274	1.195	1168859.0	2.427293	Y
6	IC 200-179551/10	9.42	20.549666	1.195	1115869.0	2.181493	Y



Calibration / Perfluorododecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

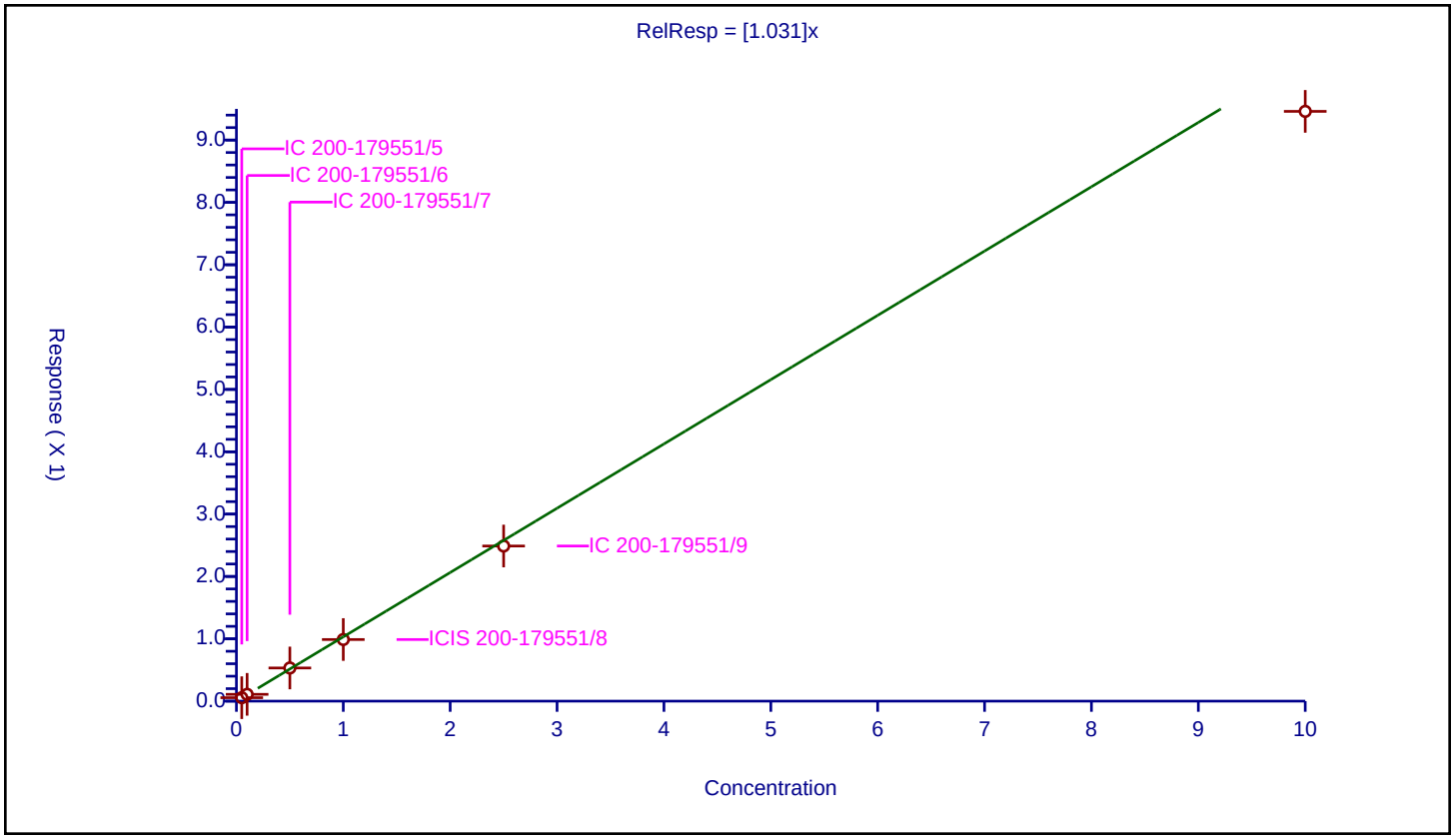
Curve Coefficients

Intercept:	0
Slope:	1.031

Error Coefficients

Standard Error:	4840000
Relative Standard Error:	6.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.05	0.055163	1.25	1431189.0	1.103261	Y
2	IC 200-179551/6	0.1	0.109066	1.25	1441679.0	1.090664	Y
3	IC 200-179551/7	0.5	0.532173	1.25	1428905.0	1.064346	Y
4	ICIS 200-179551/8	1.0	0.988485	1.25	1385963.0	0.988485	Y
5	IC 200-179551/9	2.5	2.488511	1.25	1382222.0	0.995405	Y
6	IC 200-179551/10	10.0	9.460176	1.25	1373650.0	0.946018	Y



Calibration / 1H,1H,2H,2H-perfluorododecanesulfonic acid (10:2)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

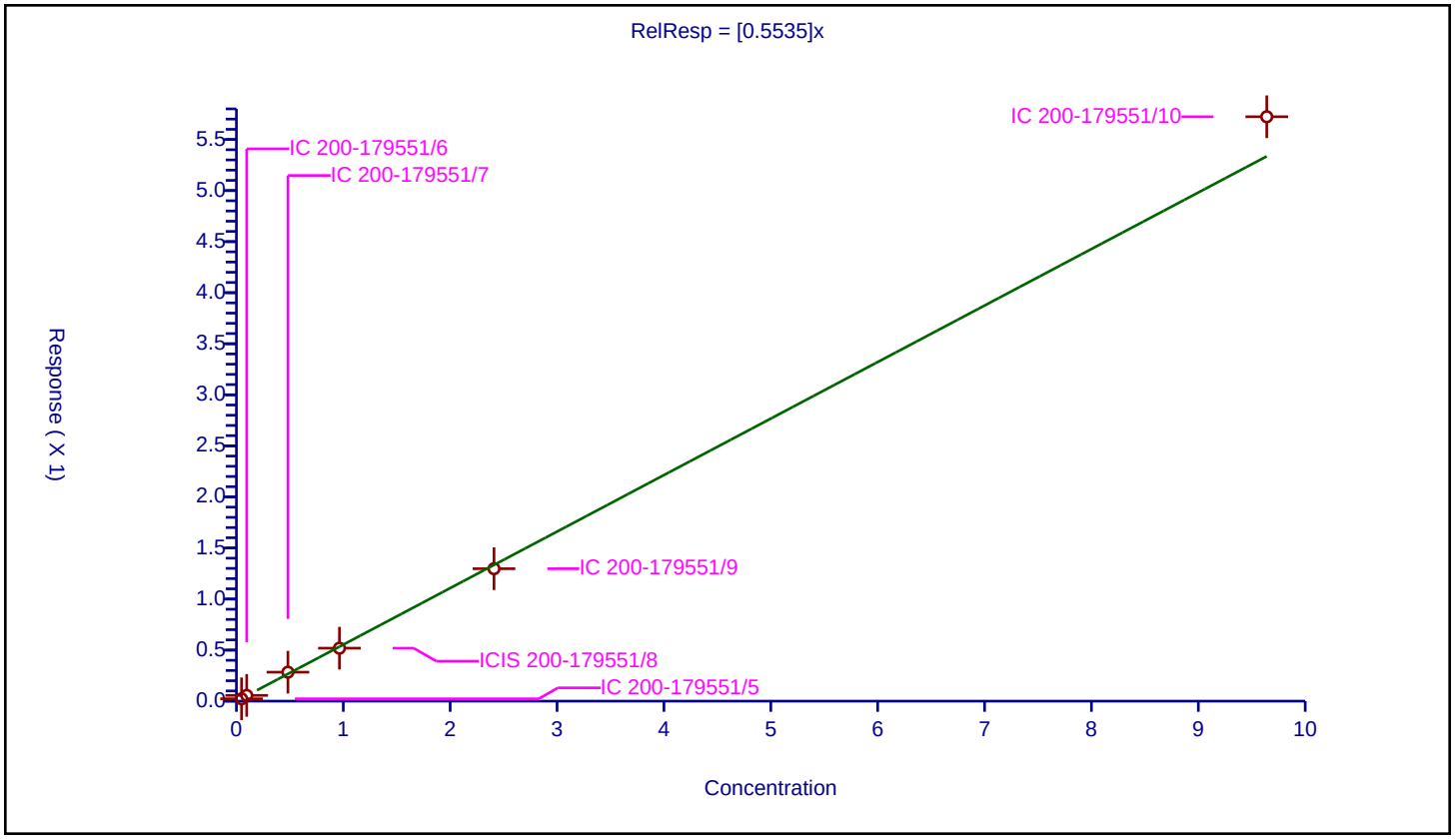
Curve Coefficients

Intercept:	0
Slope:	0.5535

Error Coefficients

Standard Error:	563000
Relative Standard Error:	8.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.0482	0.023107	1.1975	291300.0	0.479404	Y
2	IC 200-179551/6	0.0964	0.056199	1.1975	304283.0	0.582974	Y
3	IC 200-179551/7	0.482	0.283707	1.1975	287452.0	0.588604	Y
4	ICIS 200-179551/8	0.964	0.518618	1.1975	299016.0	0.537985	Y
5	IC 200-179551/9	2.41	1.296951	1.1975	294549.0	0.538154	Y
6	IC 200-179551/10	9.64	5.723141	1.1975	252791.0	0.593687	Y



Calibration / Perfluorododecanesulfonic acid (PFDoS)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

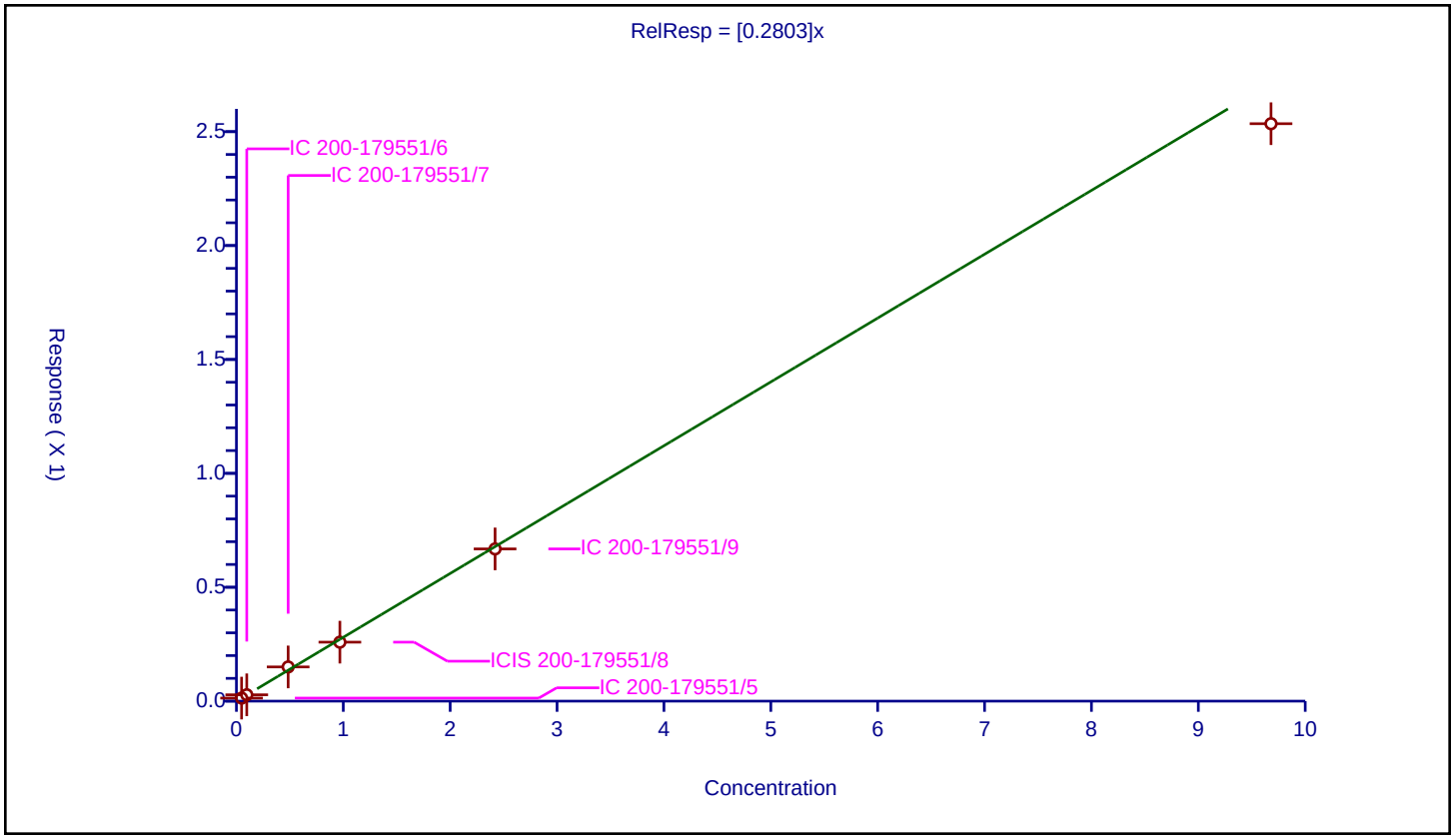
Curve Coefficients

Intercept:	0
Slope:	0.2803

Error Coefficients

Standard Error:	1110000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.0484	0.013436	1.195	1162494.0	0.277614	Y
2	IC 200-179551/6	0.0968	0.027894	1.195	1156161.0	0.288157	Y
3	IC 200-179551/7	0.484	0.150216	1.195	1115109.0	0.310363	Y
4	ICIS 200-179551/8	0.968	0.258929	1.195	1190325.0	0.267489	Y
5	IC 200-179551/9	2.42	0.668231	1.195	1168859.0	0.276128	Y
6	IC 200-179551/10	9.68	2.534962	1.195	1115869.0	0.261876	Y



Calibration / Perfluorotridecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

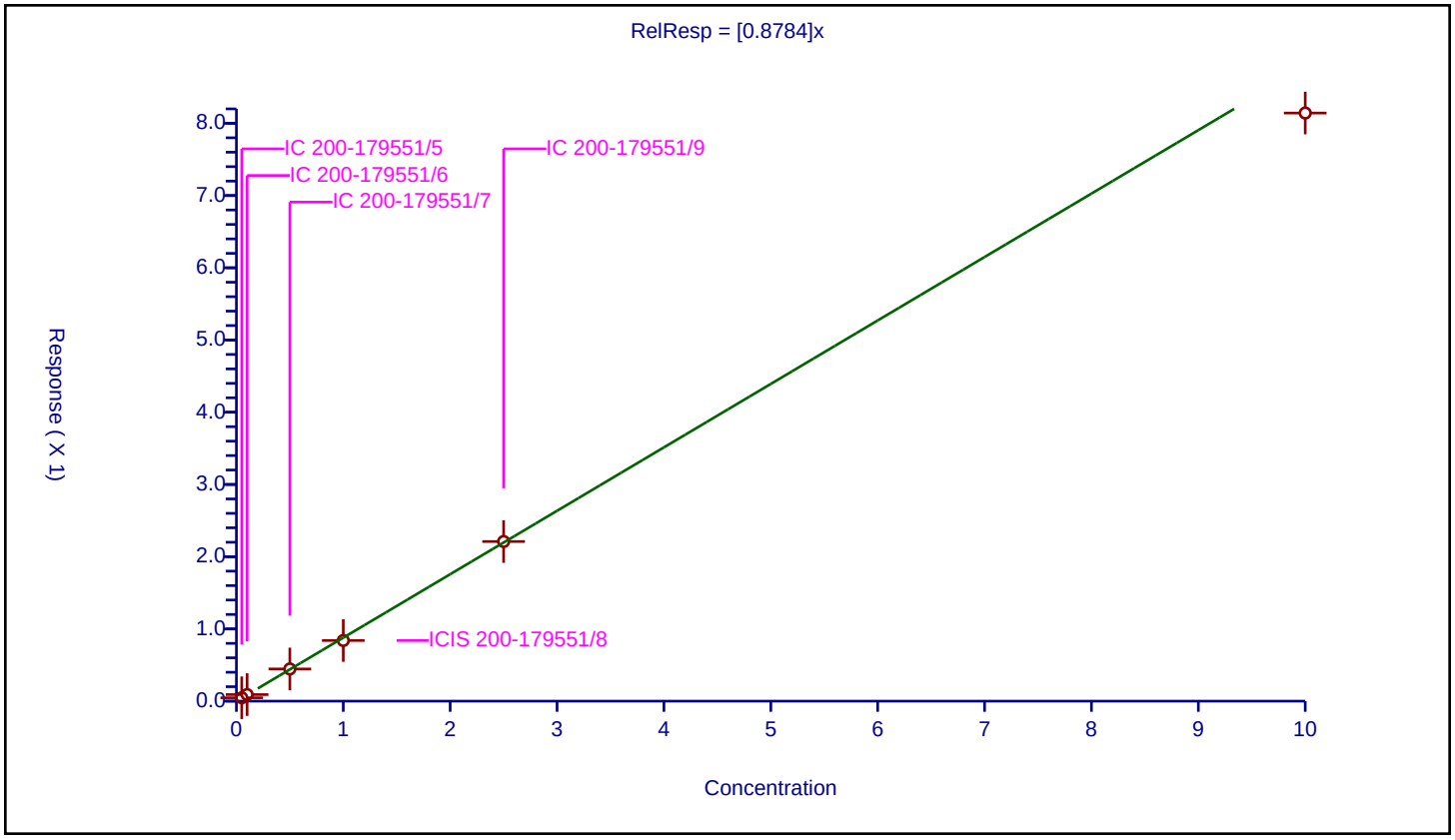
Curve Coefficients

Intercept:	0
Slope:	0.8784

Error Coefficients

Standard Error:	4180000
Relative Standard Error:	5.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.05	0.046649	1.25	1431189.0	0.932983	Y
2	IC 200-179551/6	0.1	0.090783	1.25	1441679.0	0.90783	Y
3	IC 200-179551/7	0.5	0.445751	1.25	1428905.0	0.891503	Y
4	ICIS 200-179551/8	1.0	0.839752	1.25	1385963.0	0.839752	Y
5	IC 200-179551/9	2.5	2.210325	1.25	1382222.0	0.88413	Y
6	IC 200-179551/10	10.0	8.142606	1.25	1373650.0	0.814261	Y



Calibration / Perfluorotetradecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

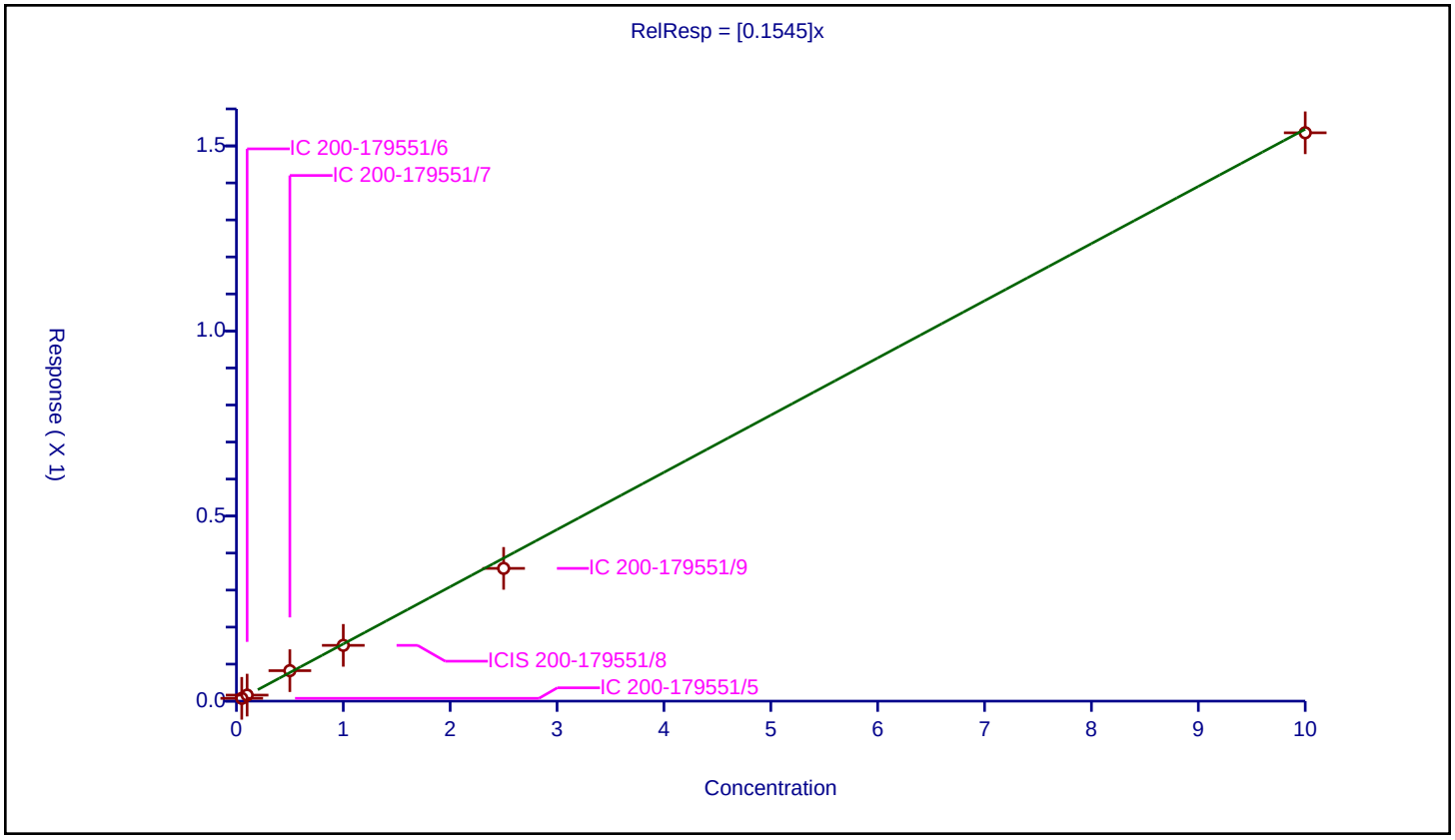
Curve Coefficients

Intercept:	0
Slope:	0.1545

Error Coefficients

Standard Error:	632000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.05	0.007572	1.25	1169586.0	0.151442	Y
2	IC 200-179551/6	0.1	0.01632	1.25	1112193.0	0.163202	Y
3	IC 200-179551/7	0.5	0.082356	1.25	1129167.0	0.164712	Y
4	ICIS 200-179551/8	1.0	0.150726	1.25	1122215.0	0.150726	Y
5	IC 200-179551/9	2.5	0.358671	1.25	1266993.0	0.143468	Y
6	IC 200-179551/10	10.0	1.535461	1.25	1105099.0	0.153546	Y



Calibration / Perfluorohexadecanoic acid

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

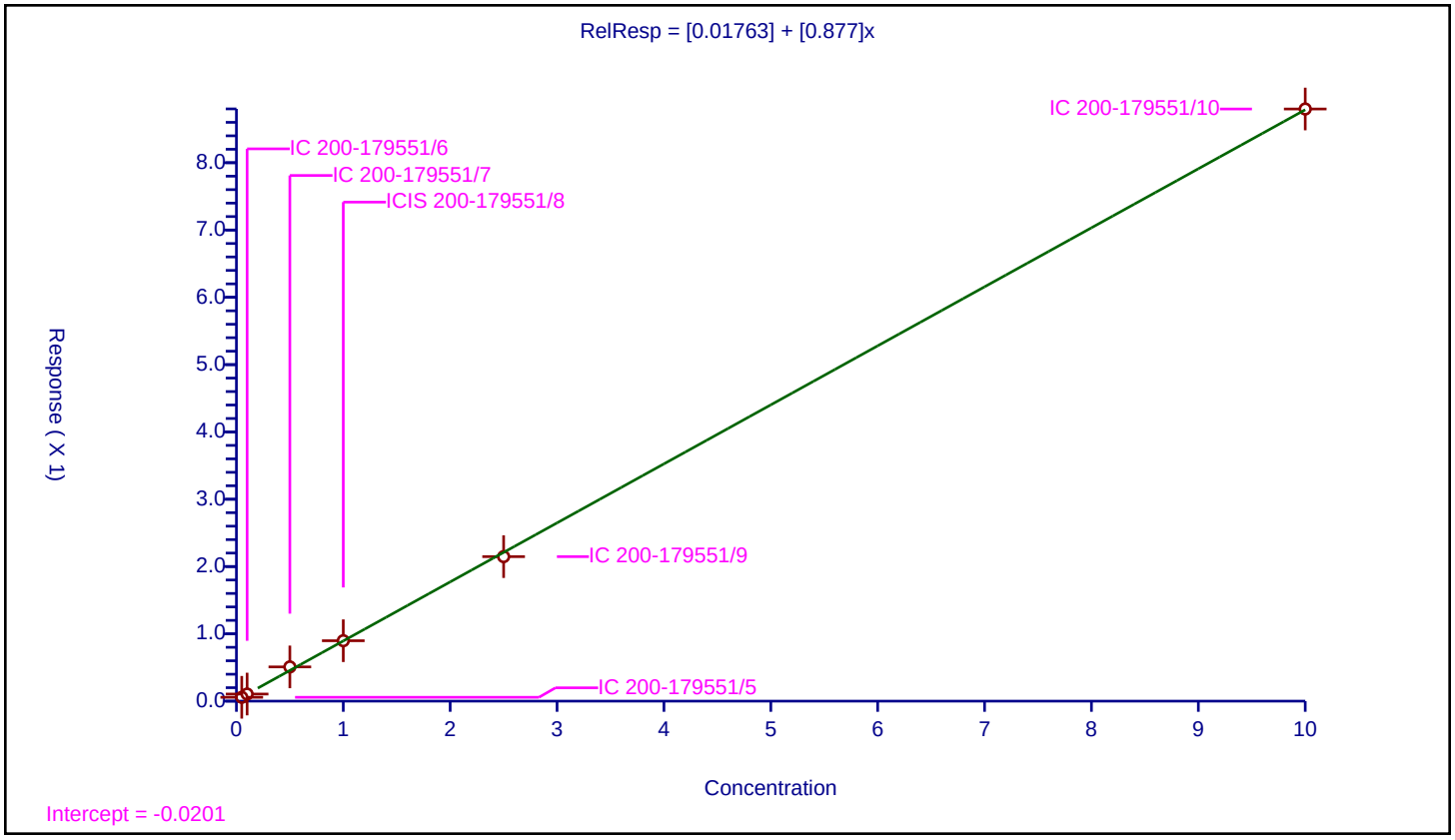
Curve Coefficients

Intercept:	0.01763
Slope:	0.877

Error Coefficients

Standard Error:	4150000
Relative Standard Error:	7.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.05	0.057227	1.25	1204588.0	1.144541	Y
2	IC 200-179551/6	0.1	0.105408	1.25	1228255.0	1.054077	Y
3	IC 200-179551/7	0.5	0.508628	1.25	1136803.0	1.017256	Y
4	ICIS 200-179551/8	1.0	0.89768	1.25	1196433.0	0.89768	Y
5	IC 200-179551/9	2.5	2.14721	1.25	1261675.0	0.858884	Y
6	IC 200-179551/10	10.0	8.798536	1.25	1129598.0	0.879854	Y



Calibration / Perfluorooctadecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

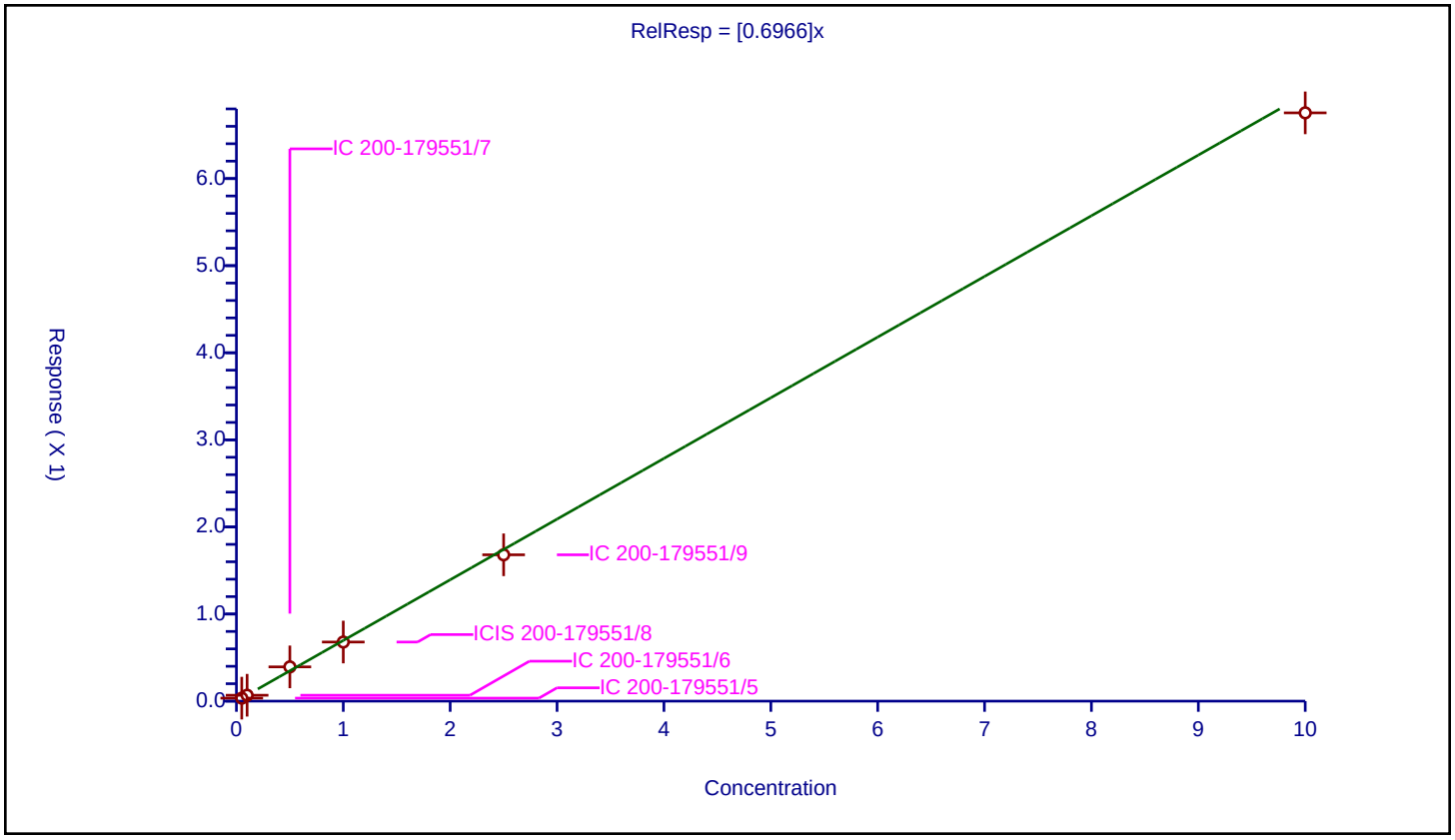
Curve Coefficients

Intercept:	0
Slope:	0.6966

Error Coefficients

Standard Error:	2850000
Relative Standard Error:	6.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-179551/5	0.05	0.034484	1.25	1204588.0	0.689676	Y
2	IC 200-179551/6	0.1	0.067715	1.25	1228255.0	0.67715	Y
3	IC 200-179551/7	0.5	0.393326	1.25	1136803.0	0.786651	Y
4	ICIS 200-179551/8	1.0	0.678742	1.25	1196433.0	0.678742	Y
5	IC 200-179551/9	2.5	1.680333	1.25	1261675.0	0.672133	Y
6	IC 200-179551/10	10.0	6.754458	1.25	1129598.0	0.675446	Y



FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: ICV 200-179551/12 Calibration Date: 05/05/2022 16:10

Instrument ID: LC812 Calib Start Date: 05/05/2022 15:13

GC Column: C-18 ID: 4.60(mm) Calib End Date: 05/05/2022 15:54

Lab File ID: PA220505ICAL12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9437	0.9756		1.03	1.00	3.4	30.0
Perfluoropentanoic acid (PFPeA)	AveID	1.019	1.043		1.03	1.01	2.4	30.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.090	1.047		0.961	1.00	-3.9	30.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	2.511	2.447		0.975	1.00	-2.5	30.0
Perfluorohexanoic acid (PFHxA)	AveID	1.079	1.019		0.953	1.01	-5.6	30.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.235	1.244		1.01	1.00	0.8	30.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.091	1.085		1.00	1.01	-0.6	30.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.011	0.9916		0.981	1.00	-1.9	30.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.105	1.065		0.974	1.01	-3.6	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	3.195	3.227		1.01	1.00	1.0	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.202	1.150		0.957	1.00	-4.3	30.0
6:2 FTS	L1ID		1.599		1.02	1.00	1.6	30.0
Perfluorooctanoic acid (PFOA)	AveID	1.120	1.087		0.971	1.00	-2.9	30.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.068	0.9242		0.874	1.01	-13.5	30.0
Perfluorononanoic acid (PFNA)	AveID	0.9672	1.048		1.08	1.00	8.4	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	AveID	1.765	1.830		1.04	1.00	3.7	30.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8088	0.7502		0.937	1.01	-7.2	30.0
Perfluorodecanoic acid (PFDA)	AveID	1.065	0.9280		0.871	1.00	-12.9	30.0
8:2 FTS	AveID	1.113	1.064		0.966	1.01	-4.4	30.0
Perfluorooctanesulfonamide (FOSA)	AveID	1.015	0.9867		0.972	1.00	-2.8	30.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9094	0.8664		0.953	1.00	-4.7	30.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6168	0.6134		1.00	1.01	-0.5	30.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.031	0.9698		0.941	1.00	-5.9	30.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9381	0.9359		0.998	1.00	-0.2	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	AveID	2.441	2.327		0.953	1.00	-4.7	30.0
Perfluorododecanoic acid (PFDoA)	AveID	1.031	0.8643		0.838	1.00	-16.2	30.0
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.5535	0.5893		1.03	0.964	6.5	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2803	0.2616		0.904	0.968	-6.7	30.0

FORM VII 537 (modified)

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: ICV 200-179551/12 Calibration Date: 05/05/2022 16:10

Instrument ID: LC812 Calib Start Date: 05/05/2022 15:13

GC Column: C-18 ID: 4.60(mm) Calib End Date: 05/05/2022 15:54

Lab File ID: PA220505ICAL12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.8784	0.7131		0.812	1.00	-18.8	30.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1545	0.1524		0.986	1.00	-1.4	30.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.9297		1.04	1.00	4.0	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.6966	0.6852		0.984	1.00	-1.6	30.0
13C4 PFBA	Ave	1.062	0.8906		1.05	1.25	-16.1	50.0
13C5 PFPeA	Ave	0.8115	0.7099		1.09	1.25	-12.5	50.0
13C3 PFBS	Ave	1.177	1.020		1.01	1.16	-13.3	50.0
M2-4:2 FTS	Ave	0.0973	0.0838		1.01	1.17	-13.9	50.0
13C2 PFHxA	Ave	0.8298	0.7442		1.12	1.25	-10.3	50.0
13C3 HFPO-DA	Ave	0.1420	0.1292		1.14	1.25	-9.0	50.0
13C4 PFHpA	Ave	0.8953	0.7896		1.10	1.25	-11.8	50.0
18O2 PFHxS	Ave	0.9203	0.7810		1.00	1.18	-15.1	50.0
M2-6:2 FTS	Ave	0.1501	0.1303		1.03	1.19	-13.2	50.0
13C4 PFOA	Ave	0.9414	0.8518		1.13	1.25	-9.5	50.0
13C4 PFOS	Ave	0.7230	0.6265		1.04	1.20	-13.3	50.0
13C5 PFNA	Ave	1.023	0.8786		1.07	1.25	-14.1	50.0
13C2 PFDA	Ave	0.9850	0.9291		1.18	1.25	-5.7	50.0
M2-8:2 FTS	Ave	0.1803	0.1684		1.12	1.20	-6.6	50.0
13C8 FOSA	Ave	1.084	0.8879		1.02	1.25	-18.1	50.0
d3-NMeFOSAA	Ave	0.1307	0.1183		1.13	1.25	-9.5	50.0
13C2 PFUnA	Ave	0.7909	0.7267		1.15	1.25	-8.1	50.0
d5-NEtFOSAA	Ave	0.1277	0.1120		1.10	1.25	-12.3	50.0
13C2 PFDoA	Ave	0.8446	0.8380		1.24	1.25	-0.8	50.0
13C2 PFTeDA	Ave	0.6903	0.6403		1.16	1.25	-7.2	50.0
13C2 PFHxDA	Ave	0.7156	0.6578		1.15	1.25	-8.1	50.0

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 05-May-2022 16:10:49 ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 200-0050718-012 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist:

Method: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 06-May-2022 08:27:34 Calib Date: 05-May-2022 15:54:29
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1646

First Level Reviewer: deannd Date: 06-May-2022 08:23:03
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.093	2.102	-0.009	1.000	1563165	1.03			356	M
D 1 13C4 PFBA										M
217.00 > 172.00	2.093	2.102	-0.009	0.601	2002875	1.05		83.9	8060	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.413	-0.013	0.689	1596417	1.09		87.5	4132	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.400	2.413	-0.013	1.000	1345772	1.03			66.7	
D 47 13C3 PFBS										
301.90 > 80.00	2.413	2.427	-0.014	0.693	2133538	1.01		86.7	258515	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.427	2.440	-0.013	1.006	1921772	0.9606	Target=2.15		1773	
298.90 > 99.00	2.427	2.440	-0.013	1.006	900526		2.13(1.07-3.22)		520	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.725	2.738	-0.013	1.004	369091	0.9748			2354	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.713	2.738	-0.025	0.779	176080	1.01		86.1	172	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.762	2.774	-0.012	0.793	1673560	1.12		89.7	3929	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.762	2.774	-0.012	1.000	1377528	0.9532	Target=12.59		166	M
313.00 > 119.00	2.750	2.774	-0.024	0.996	109820		12.54(6.29-18.88)		88.6	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.762	2.774	-0.012	0.885	1748402	1.01	Target=2.96		1360	M
349.00 > 99.00	2.762	2.774	-0.012	0.885	589052		2.97(1.48-4.44)		796	M
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.871	2.884	-0.013	0.825	290613	1.14		91.0	2055	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.871	2.884	-0.013	1.000	254819	1.00			1648	M
D 11 18O2 PFHxS										M
403.00 > 84.00	3.121	3.132	-0.011	0.896	1661546	1.00		84.9	1879	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.121	3.132	-0.011	1.000	1512046	0.9736	Target=3.53		1208	M
399.00 > 99.00	3.121	3.132	-0.011	1.000	425637		3.55(1.76-5.29)		525	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.121	3.143	-0.022	0.896	1775591	1.10		88.2	1920	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.121	3.143	-0.022	1.000	1408595	0.9813	Target=3.75		301	M
363.00 > 169.00	3.132	3.143	-0.011	1.004	368525		3.82(1.87-5.62)		366	
77 DONA										M
377.00 > 251.00	3.165	3.176	-0.011	0.833	3637198	1.01	Target=2.77		1659	M
377.00 > 85.00	3.165	3.176	-0.011	0.833	1345159		2.70(1.38-4.15)		1721	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.465	3.482	-0.017	0.911	1295890	0.9566	Target=4.90		1614	M
449.00 > 99.00	3.465	3.482	-0.017	0.911	262794		4.93(2.45-7.35)		640	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.474	3.482	-0.008	1.000	374764	1.02			365	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.474	3.482	-0.008	0.997	278293	1.03		86.8	670	
D 14 13C4 PFOA										
417.00 > 372.00	3.483	3.491	-0.008	1.000	1915640	1.13		90.5	3731	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.483	3.500	-0.017	1.000	1665904	0.9706	Target=2.68		212	M
413.00 > 169.00	3.483	3.500	-0.017	1.000	629893		2.64(1.34-4.02)		831	M
* 62 13C2 PFOA										M
415.00 > 370.00	3.483	3.500	-0.017		2248819	1.25			1742	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.802	3.812	-0.010	1.000	1052058	0.8741	Target=4.47		728	M
499.00 > 99.00	3.793	3.812	-0.019	0.997	225129		4.67(2.24-6.71)		649	M
D 18 13C4 PFOS										
503.00 > 80.00	3.802	3.812	-0.010	1.092	1346848	1.04		86.7	2634	
D 19 13C5 PFNA										M
468.00 > 423.00	3.812	3.834	-0.022	1.095	1975733	1.07		85.9	2574	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.812	3.834	-0.022	1.000	1656448	1.08	Target=7.74		229	
463.00 > 169.00	3.812	3.834	-0.022	1.000	215371		7.69(3.87-11.61)		1335	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.960	3.978	-0.018	1.042	2062592	1.04			1837	M
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.093	4.104	-0.011	1.076	853969	0.9368	Target=2.49		1996	
549.00 > 99.00	4.093	4.104	-0.011	1.076	331361		2.58(1.24-3.73)		905	M
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.116	4.127	-0.011	1.000	1551123	0.8710	Target=9.31		646	
513.00 > 169.00	4.116	4.127	-0.011	1.000	167732		9.25(4.65-13.96)		709	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										M
515.00 > 470.00	4.116	4.138	-0.022	1.182	2089420	1.18		94.3	3646	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.127	4.138	-0.011	1.000	325596	0.9658			1331	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.127	4.138	-0.011	1.185	362691	1.12		93.4	921	
D 21 13C8 FOSA										
506.00 > 78.00	4.184	4.196	-0.012	1.201	1996755	1.02		81.9	2191	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.184	4.207	-0.023	1.000	1576156	0.9724			1935	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.261	4.273	-0.012	1.224	266142	1.13		90.5	1038	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.261	4.273	-0.012	1.000	184475	0.9527			352	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.365	4.376	-0.011	1.148	698231	1.00	Target=2.56		1439	M
599.00 > 99.00	4.365	4.376	-0.011	1.148	271147		2.58(1.28-3.84)		1719	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.387	4.399	-0.012	1.000	1267891	0.9411	Target=9.41		710	M
563.00 > 169.00	4.387	4.399	-0.012	1.000	130511		9.71(4.70-14.11)		446	M
D 30 13C2 PFUnA										M
565.00 > 520.00	4.387	4.399	-0.012	1.260	1634145	1.15		91.9	1867	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.399	4.410	-0.011	1.263	251959	1.10		87.7	1317	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.399	4.410	-0.011	1.000	188646	1.00			1132	M
66 11-Chloroeicosafluoro-3-oxaundec										M
631.00 > 451.00	4.491	4.504	-0.013	1.181	2622193	0.9530			1942	M
D 36 13C2 PFDoA										M
615.00 > 570.00	4.622	4.633	-0.011	1.327	1884400	1.24		99.2	2302	M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.622	4.633	-0.011	1.000	1302890	0.8380	Target=6.95		156	M
613.00 > 169.00	4.622	4.633	-0.011	1.000	195235		6.67(3.48-10.43)		547	M
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.643	4.653	-0.010	1.125	172050	1.03			1167	
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.803	4.812	-0.009	1.263	285421	0.9036	Target=0.55		1525	M
699.00 > 99.00	4.803	4.812	-0.009	1.263	553090		0.52(0.27-0.82)		2184	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.848	4.848	0.0	1.049	1074951	0.8118	Target=4.44		162	M
663.00 > 169.00	4.848	4.848	0.0	1.049	226184		4.75(2.22-6.66)		396	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.042	5.042	0.0	1.000	175519	0.9861	Target=0.96		670	
713.00 > 219.00	5.032	5.042	-0.010	0.998	184793		0.95(0.48-1.44)		356	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.042	5.042	0.0	1.448	1439870	1.16		92.8	2139	M

Report Date: 06-May-2022 08:27:34 Chrom Revision: 2.3 02-May-2022 18:31:28
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.400	5.388	0.012	1.550	1479178	1.15		91.9	1286	M
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.400	5.400	0.0	1.000	1100161	1.04	Target=4.90		193	M
813.00 > 169.00	5.400	5.400	0.0	1.000	211550		5.20(2.45-7.36)		928	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.740	5.731	0.009	1.063	810812	0.9836	Target=4.81		165	M
913.00 > 169.00	5.740	5.731	0.009	1.063	161824		5.01(2.40-7.21)		468	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

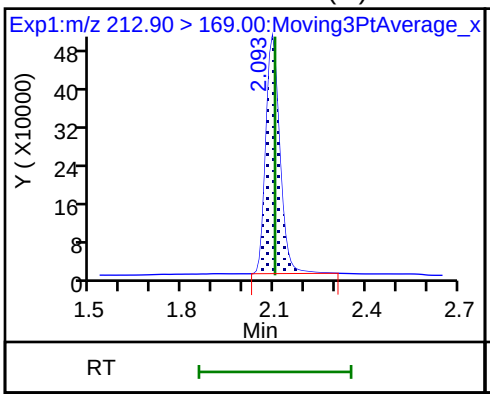
LCPFAS28NCICV_00008 Amount Added: 100.00 Units: uL

Report Date: 06-May-2022 08:27:34 Chrom Revision: 2.3 02-May-2022 18:31:28

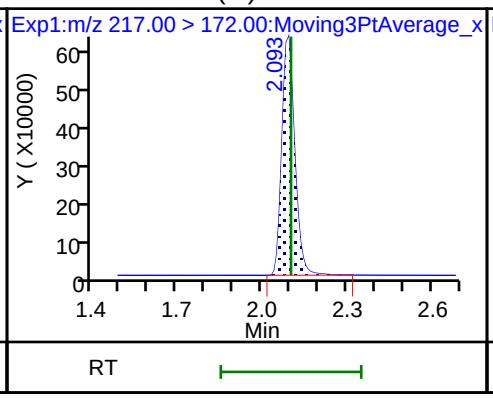
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL

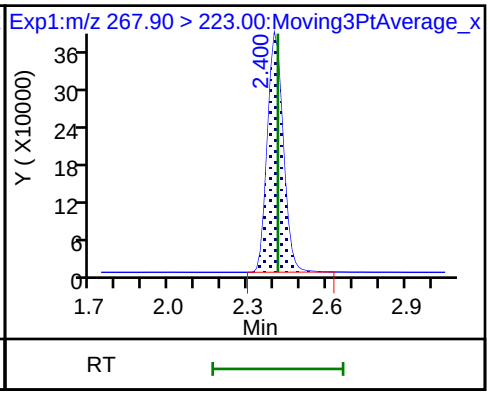
2 Perfluorobutanoic acid (M)



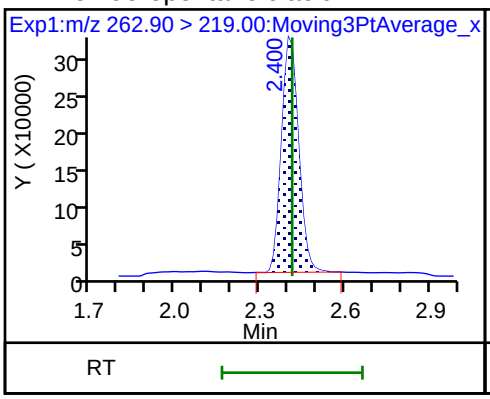
D 1 13C4 PFBA (M)



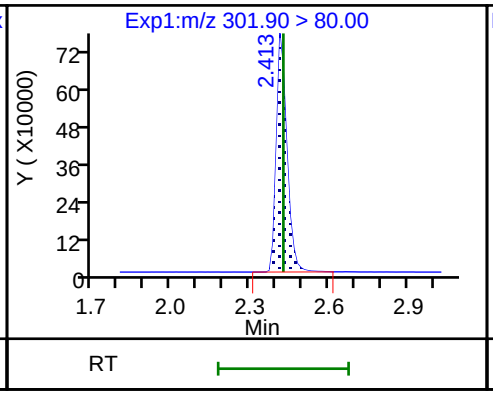
D 3 13C5 PFPeA



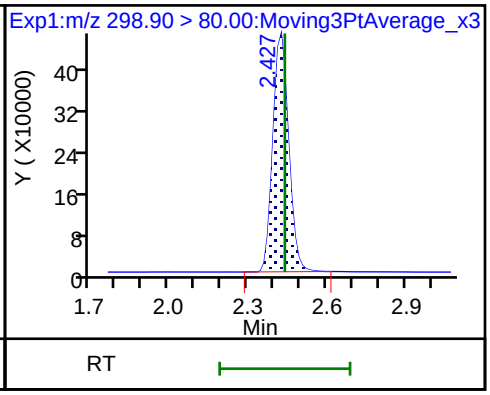
4 Perfluoropentanoic acid



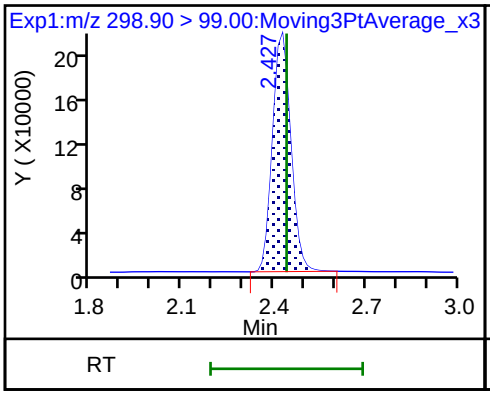
D 47 13C3 PFBS



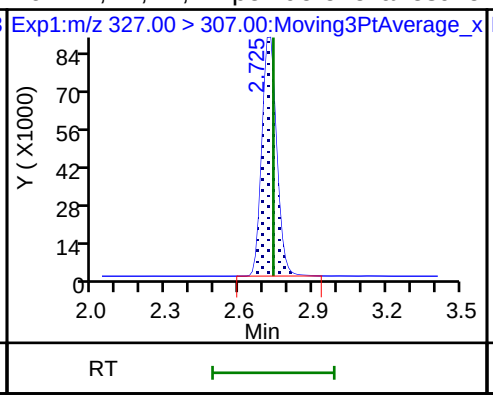
5 Perfluorobutanesulfonic acid



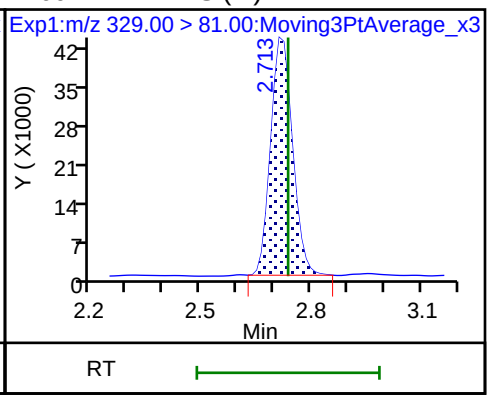
5 Perfluorobutanesulfonic acid



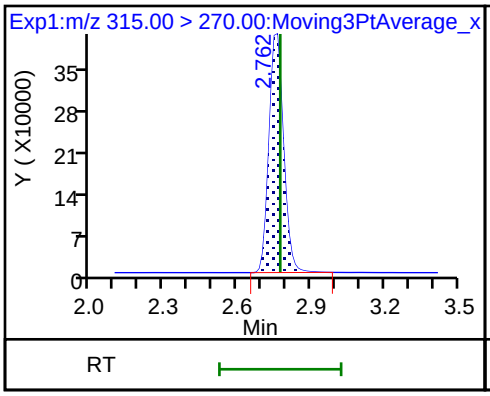
61 1H,1H,2H,2H-perfluorohexanesulfo



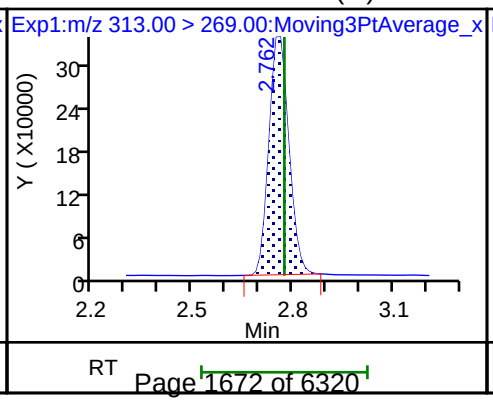
D 60 M2-4:2 FTS (M)



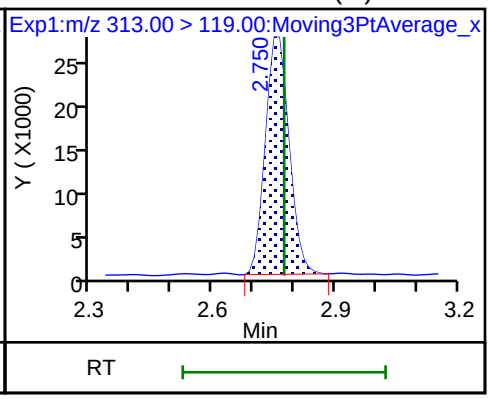
D 7 13C2 PFHxA



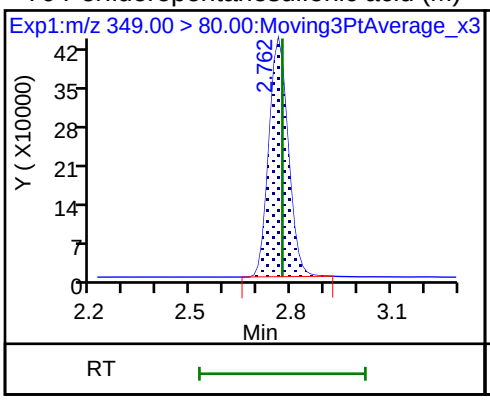
6 Perfluorohexanoic acid (M)



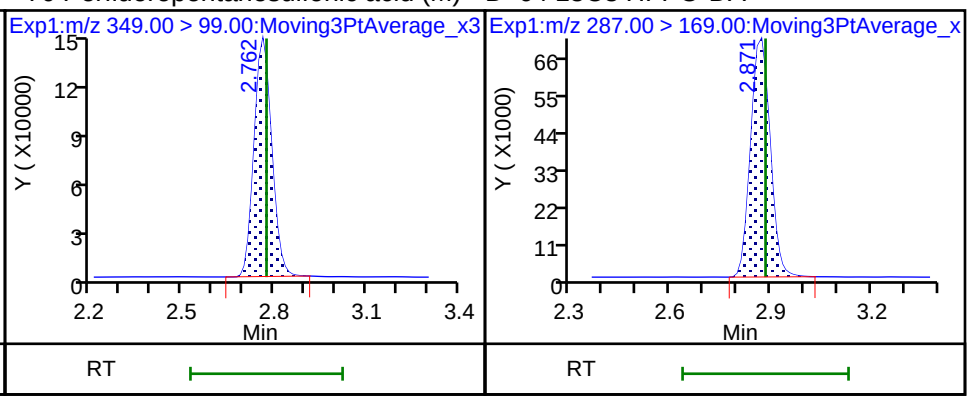
6 Perfluorohexanoic acid (M)



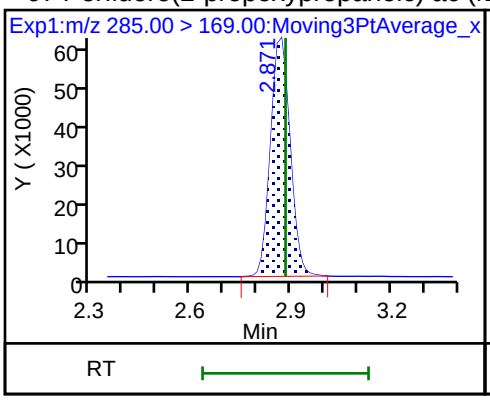
70 Perfluoropentanesulfonic acid (M)



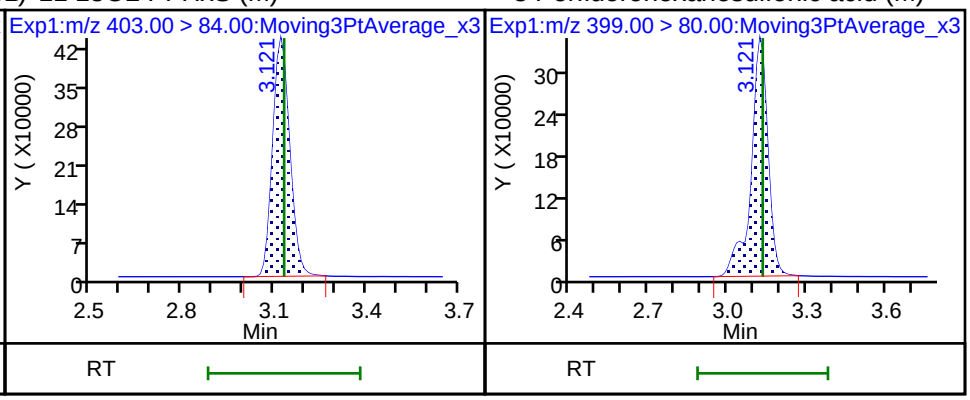
70 Perfluoropentanesulfonic acid (M) D 64 13C3 HFPO-DA



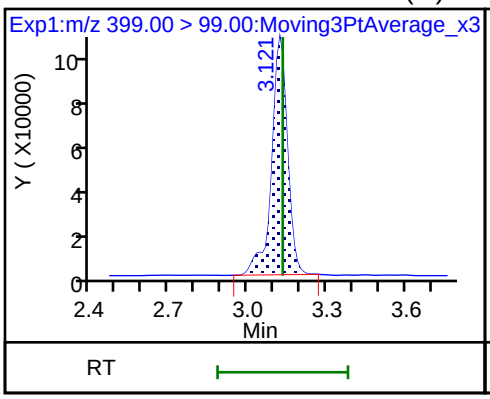
67 Perfluoro(2-propoxypropanoic) ac (M) D 11 18O2 PFHxS (M)



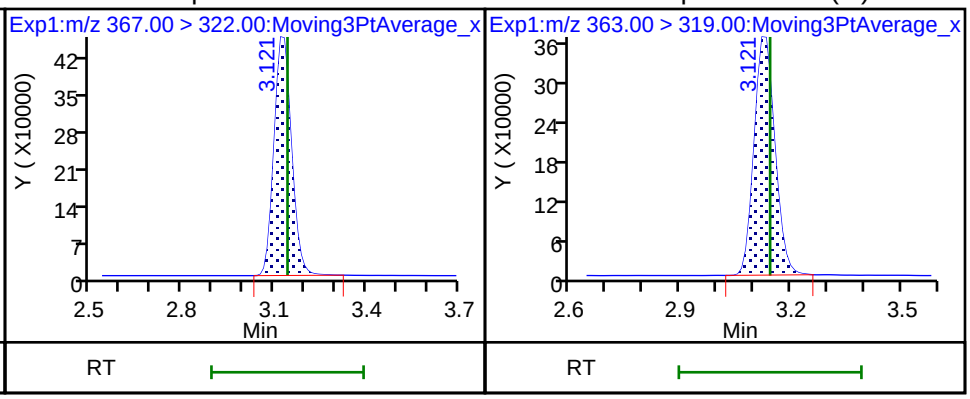
8 Perfluorohexanesulfonic acid (M)



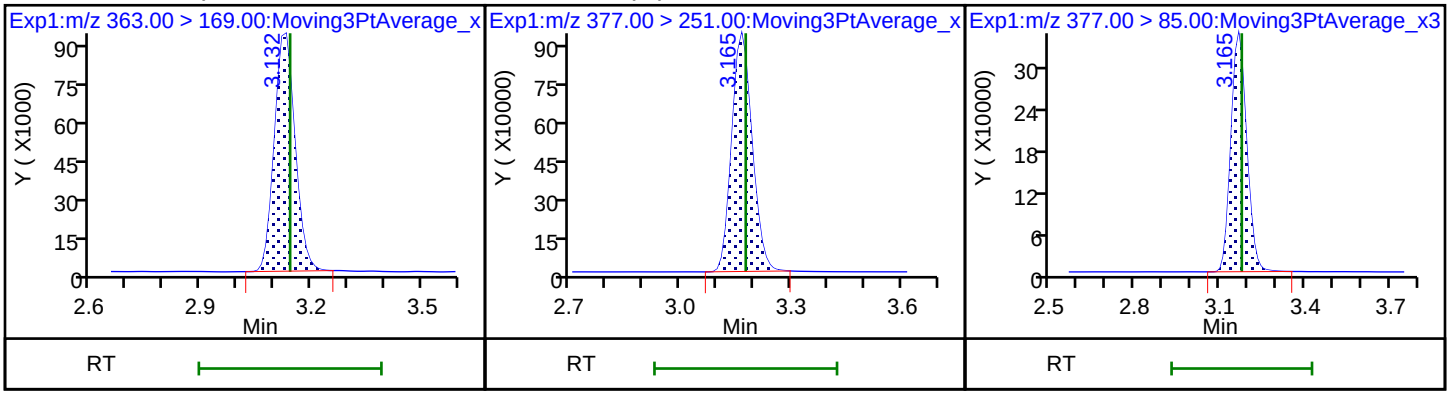
8 Perfluorohexanesulfonic acid (M) D 9 13C4 PFHpA



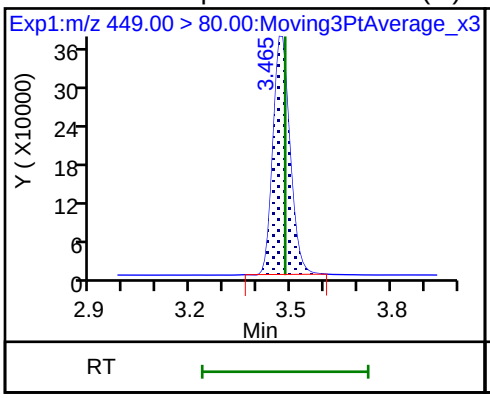
10 Perfluoroheptanoic acid (M)



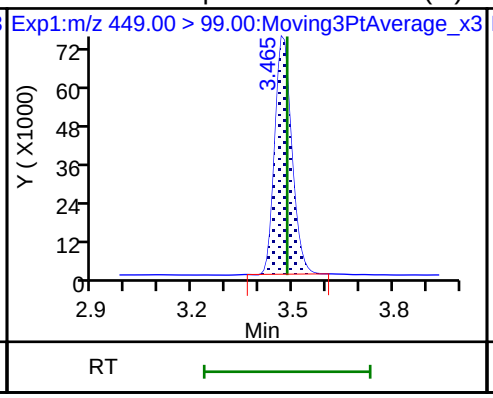
10 Perfluoroheptanoic acid 77 DONA (M) 77 DONA



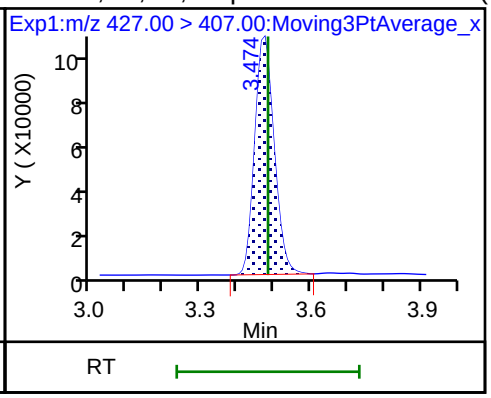
16 Perfluoroheptanesulfonic acid (M)



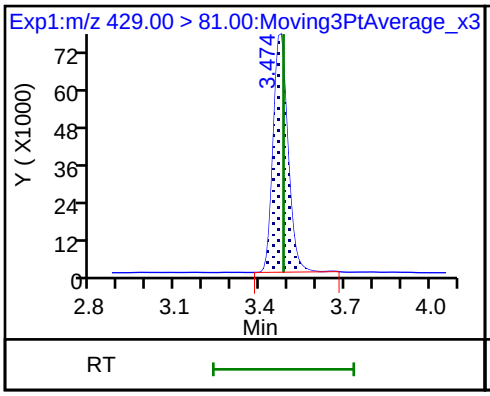
16 Perfluoroheptanesulfonic acid (M)



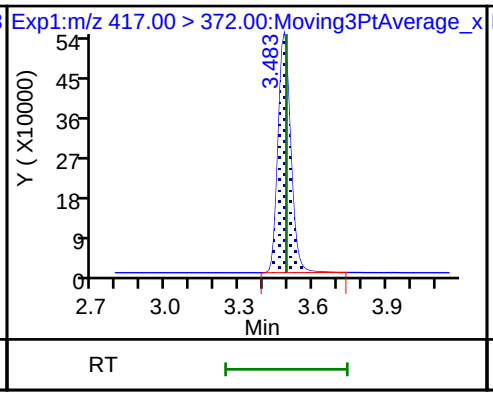
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



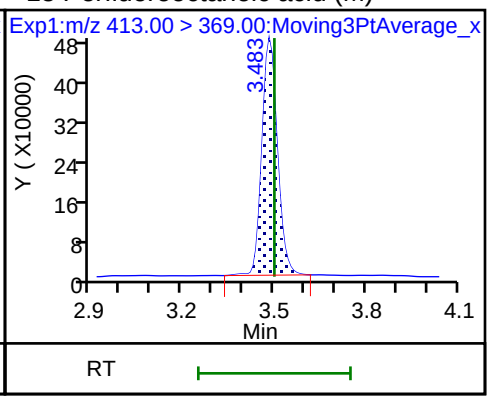
D 12 M2-6:2 FTS



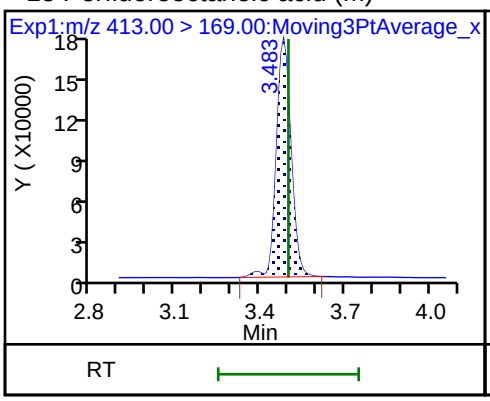
D 14 13C4 PFOA



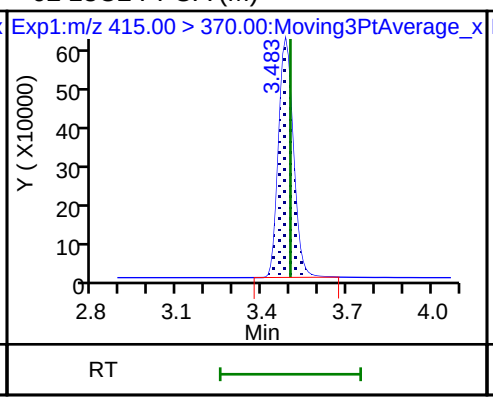
15 Perfluorooctanoic acid (M)



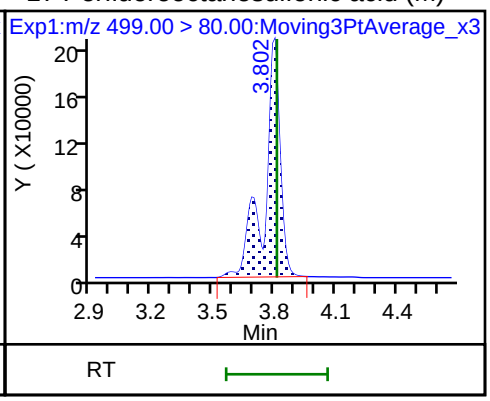
15 Perfluorooctanoic acid (M)



* 62 13C2 PFOA (M)



17 Perfluorooctanesulfonic acid (M)



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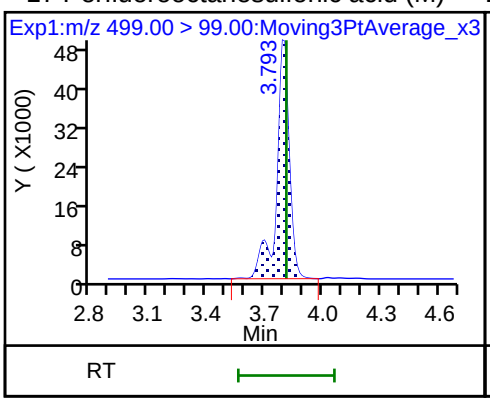
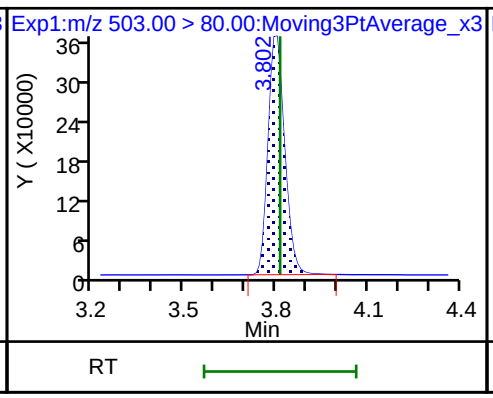
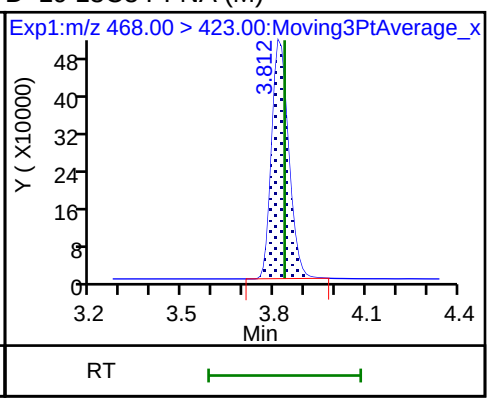


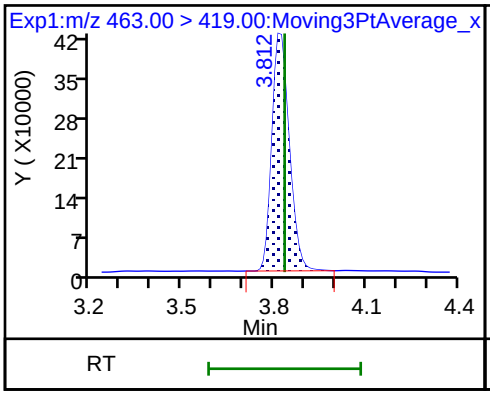
D 18 13C4 PFOS



D 19 13C5 PFNA (M)



20 Perfluorononanoic acid



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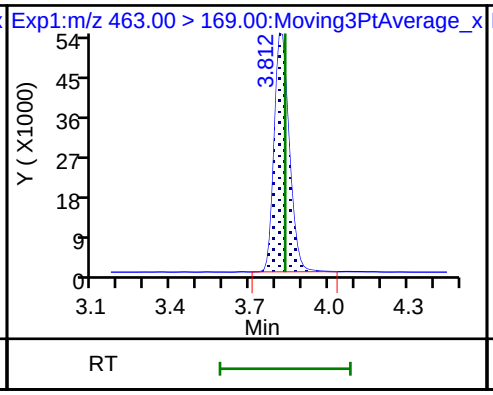
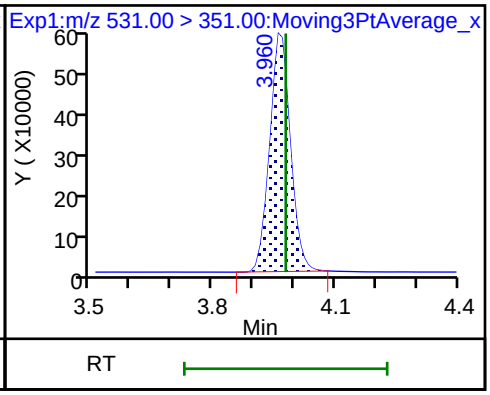
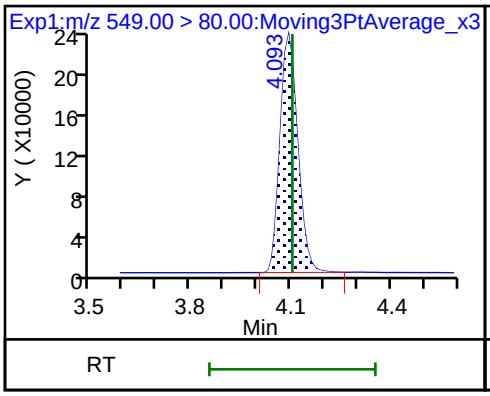


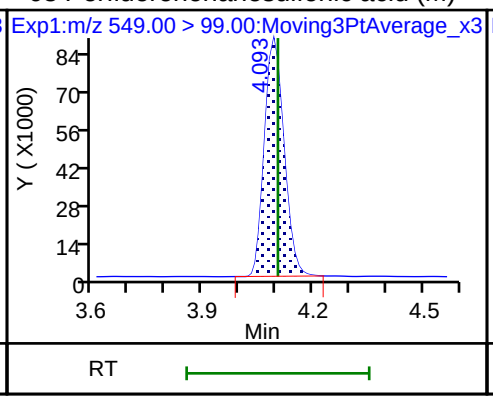
69 9-Chlorohexadecafluoro-3-oxanona (M)



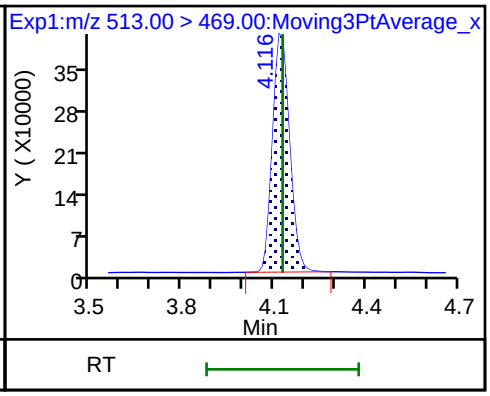
68 Perfluorononanesulfonic acid



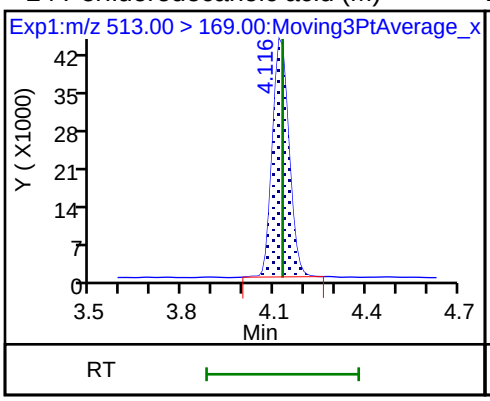
68 Perfluorononanesulfonic acid (M)



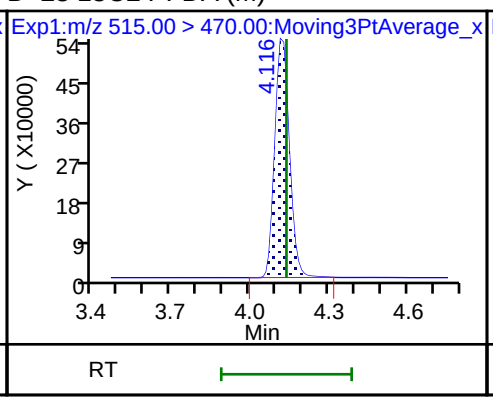
24 Perfluorodecanoic acid



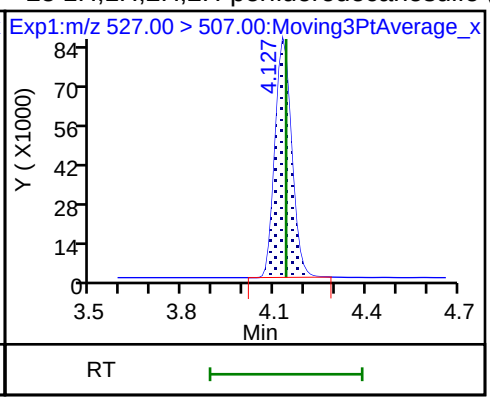
24 Perfluorodecanoic acid (M)



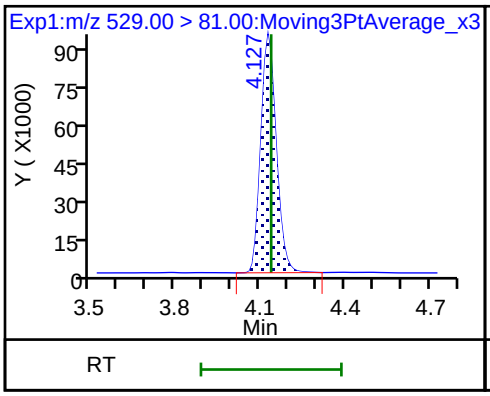
D 23 13C2 PFDA (M)



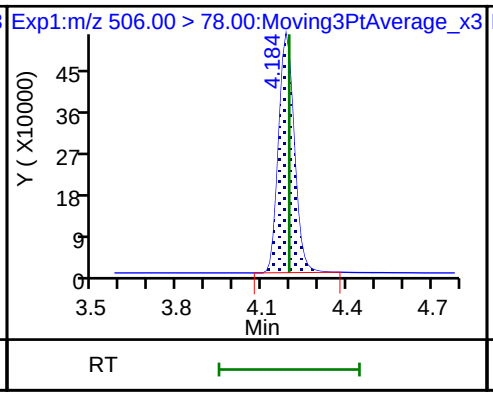
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



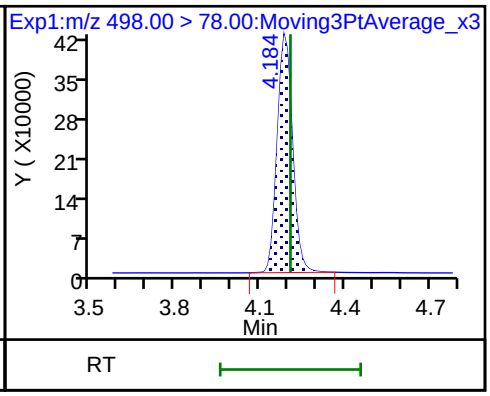
D 26 M2-8:2 FTS



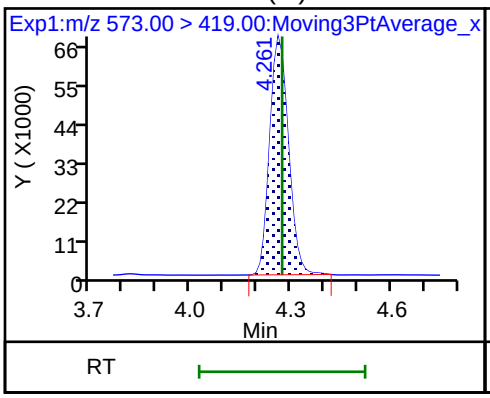
D 21 13C8 FOSA



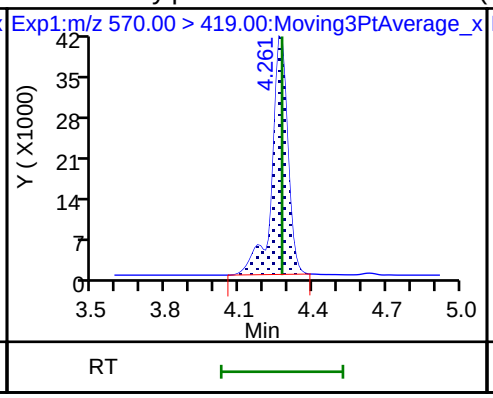
22 Perfluorooctanesulfonamide



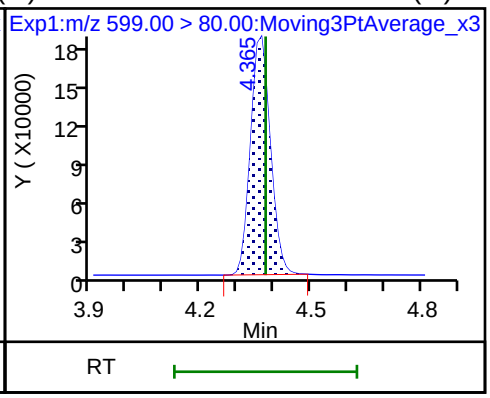
D 27 d3-NMeFOSAA (M)



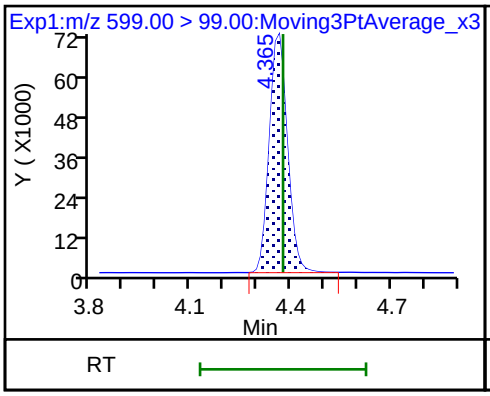
28 N-methylperfluorooctanesulfonami (M)



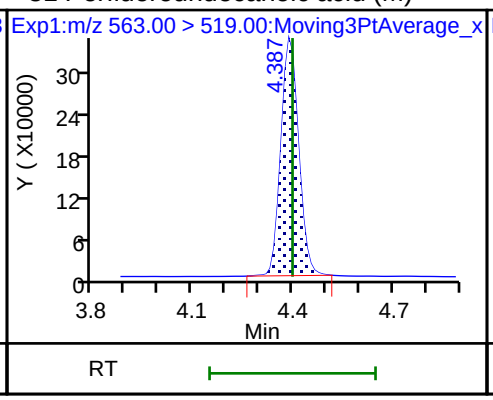
29 Perfluorodecanesulfonic acid (M)



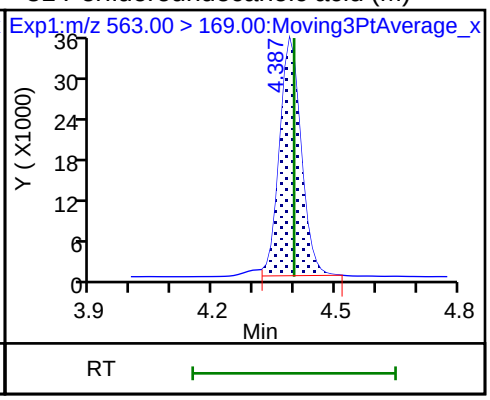
29 Perfluorodecanesulfonic acid



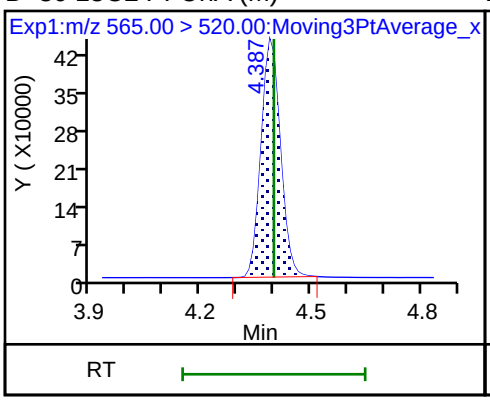
31 Perfluoroundecanoic acid (M)



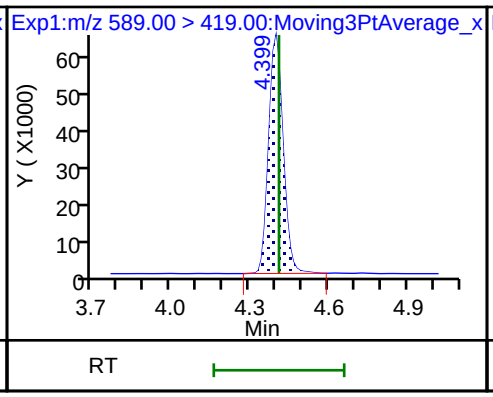
31 Perfluoroundecanoic acid (M)



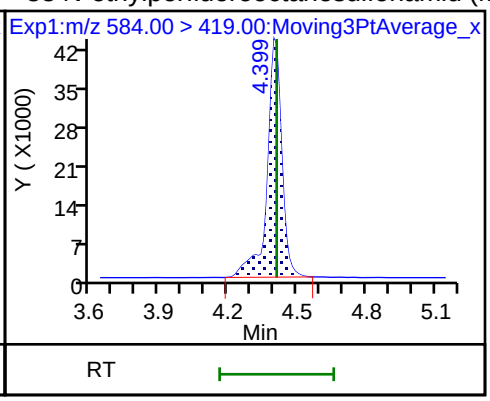
D 30 13C2 PFUnA (M)



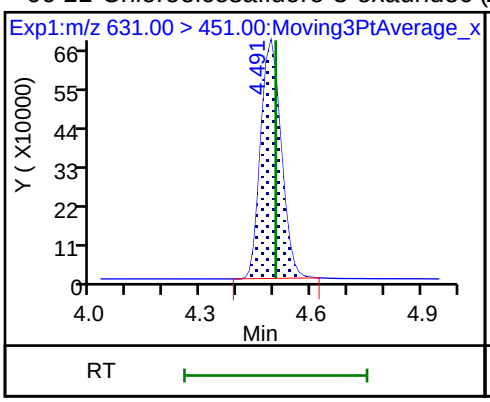
D 32 d5-NEtFOSAA



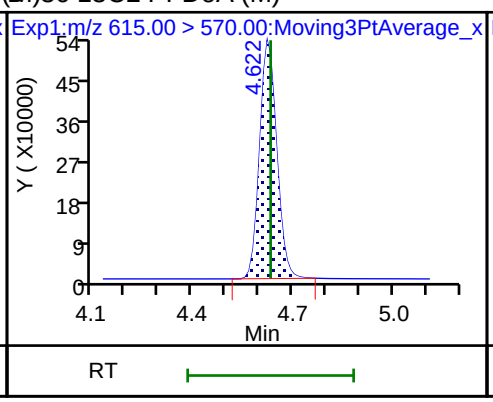
33 N-ethylperfluorooctanesulfonamid (M)



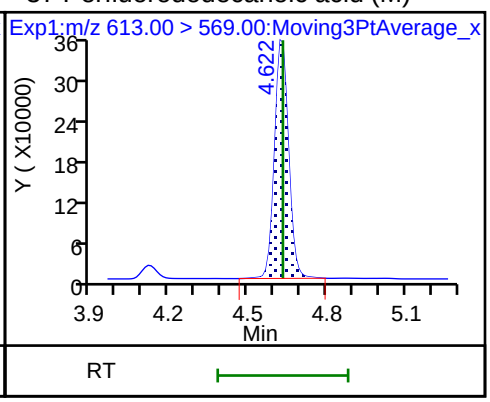
66 11-Chloroeicosafluoro-3-oxaundec (M)



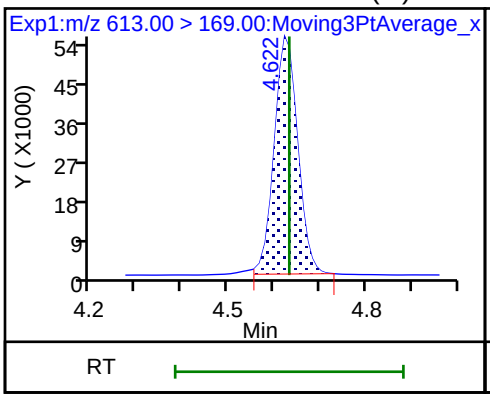
D 36 13C2 PFDoA (M)



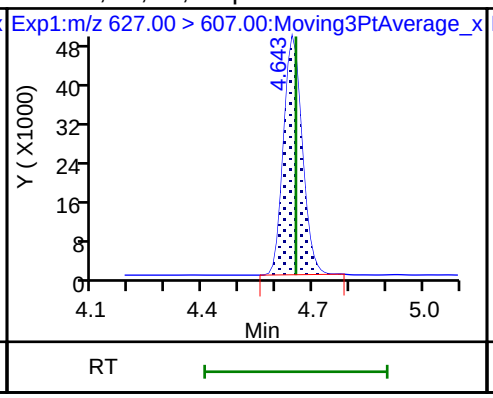
37 Perfluorododecanoic acid (M)



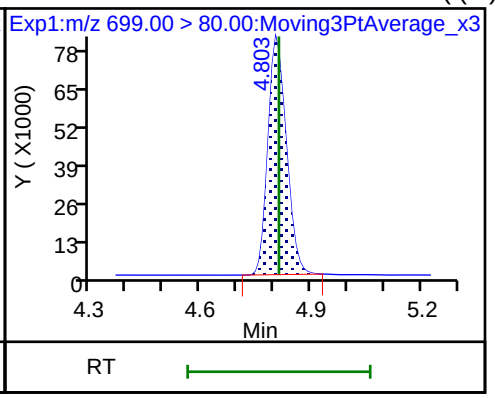
37 Perfluorododecanoic acid (M)



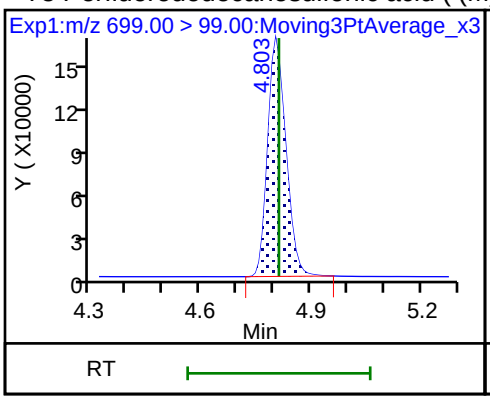
74 1H,1H,2H,2H-perfluorododecanesul



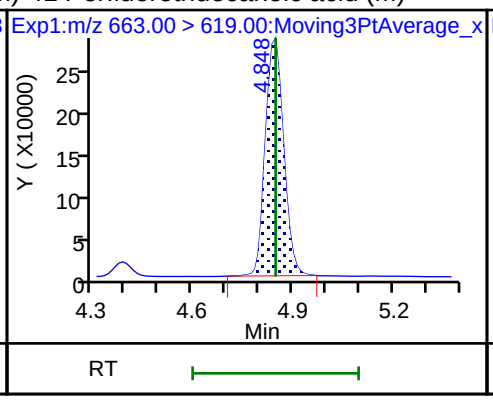
75 Perfluorododecanesulfonic acid ((M)



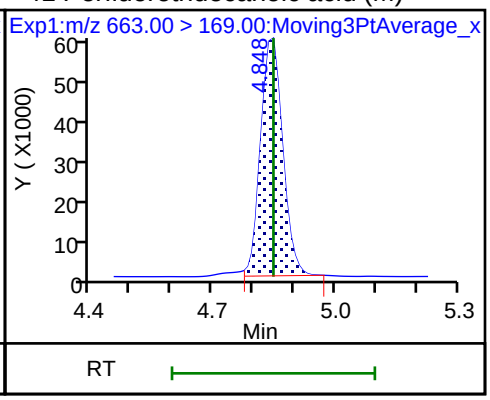
75 Perfluorododecanesulfonic acid ((M)



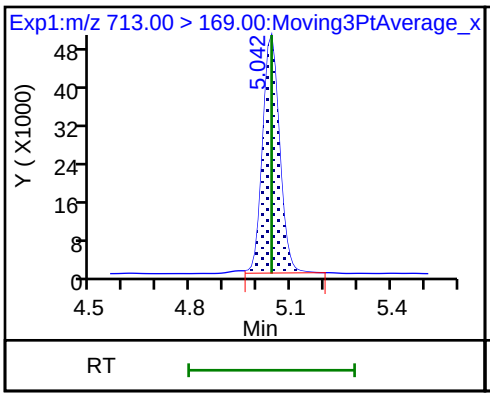
41 Perfluorotridecanoic acid (M)



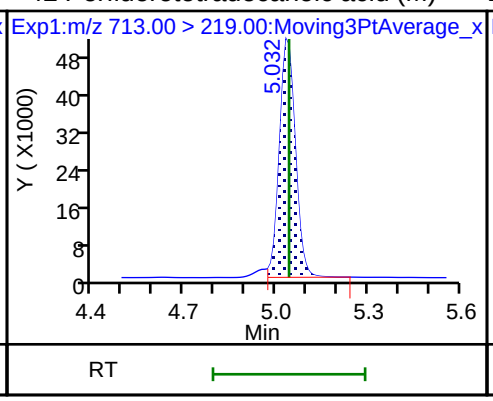
41 Perfluorotridecanoic acid (M)



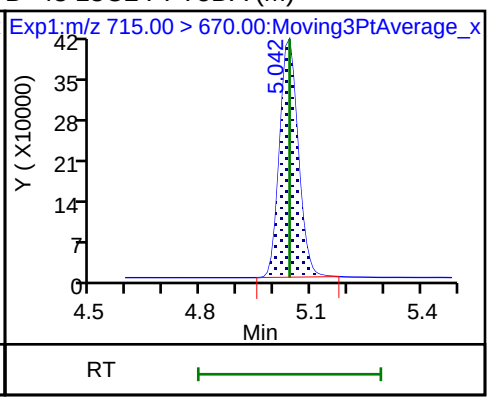
42 Perfluorotetradecanoic acid



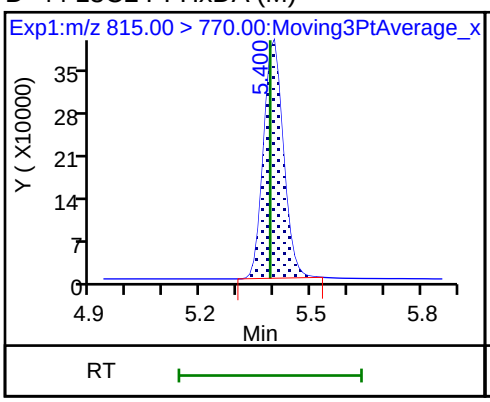
42 Perfluorotetradecanoic acid (M)



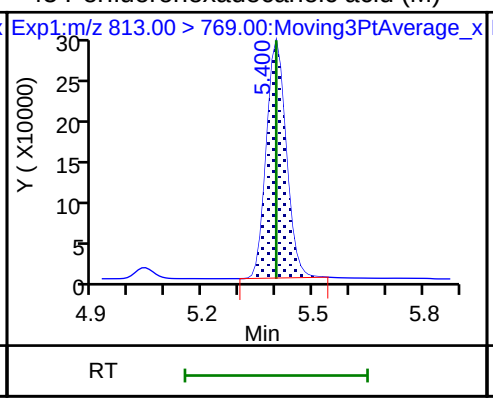
D 43 13C2 PFTeDA (M)



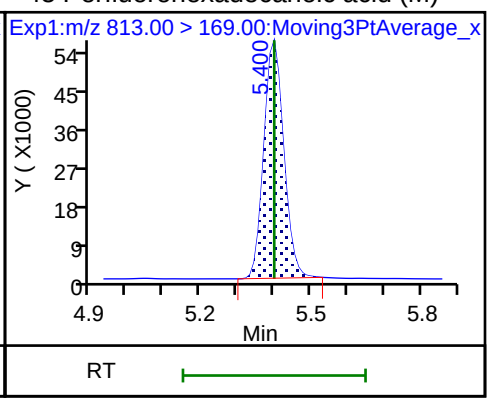
D 44 13C2 PFHxDA (M)



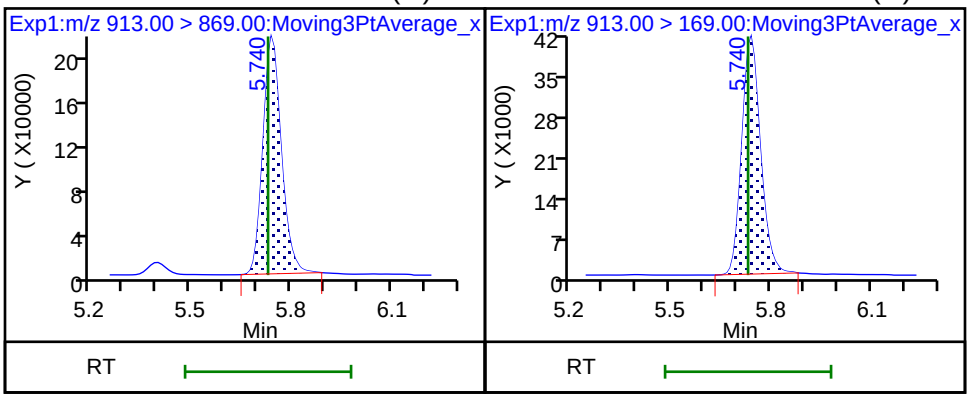
45 Perfluorohexadecanoic acid (M)



45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M) 46 Perfluorooctadecanoic acid (M)



Manual Integration/User Assign Peak Report

Eurofins Burlington

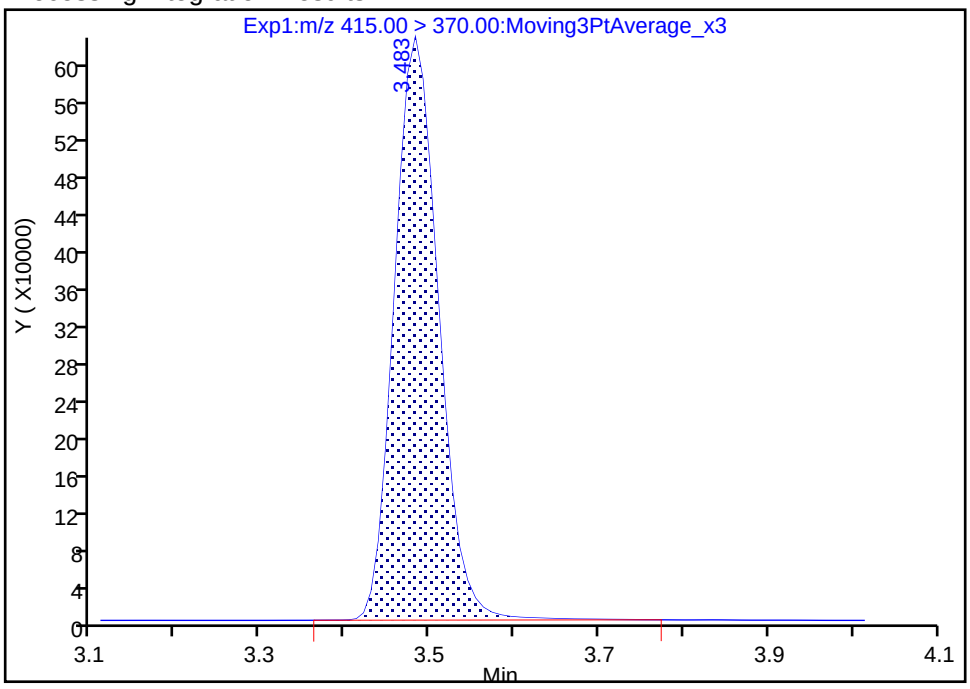
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

* 62 13C2 PFOA, CAS: STL00623

Signal: 1

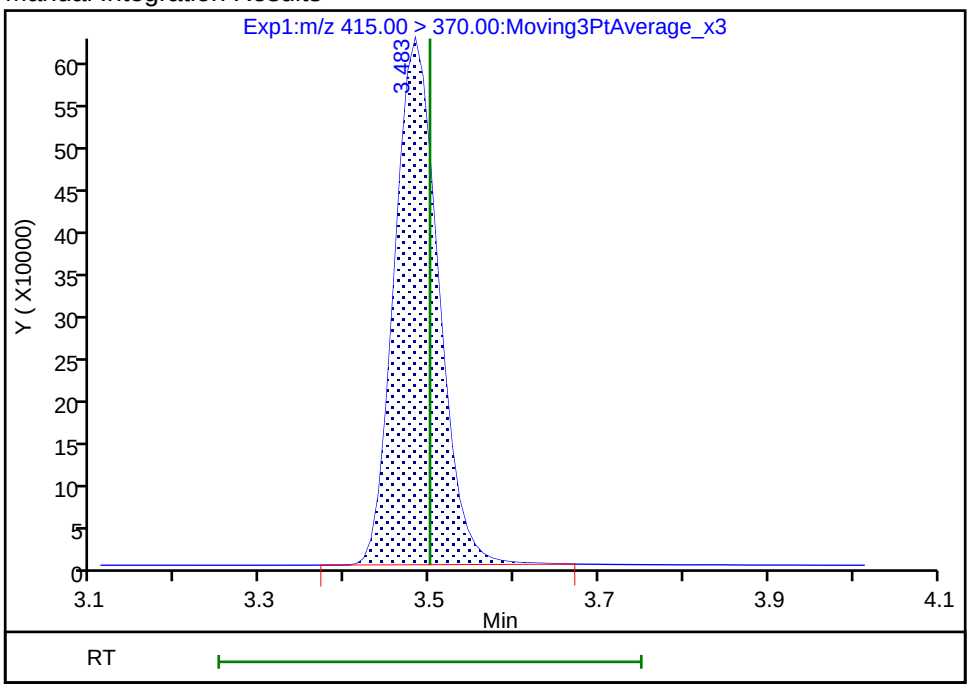
Processing Integration Results

RT: 3.48
Area: 2258941
Amount: 1.250000
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 2248819
Amount: 1.250000
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:22:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

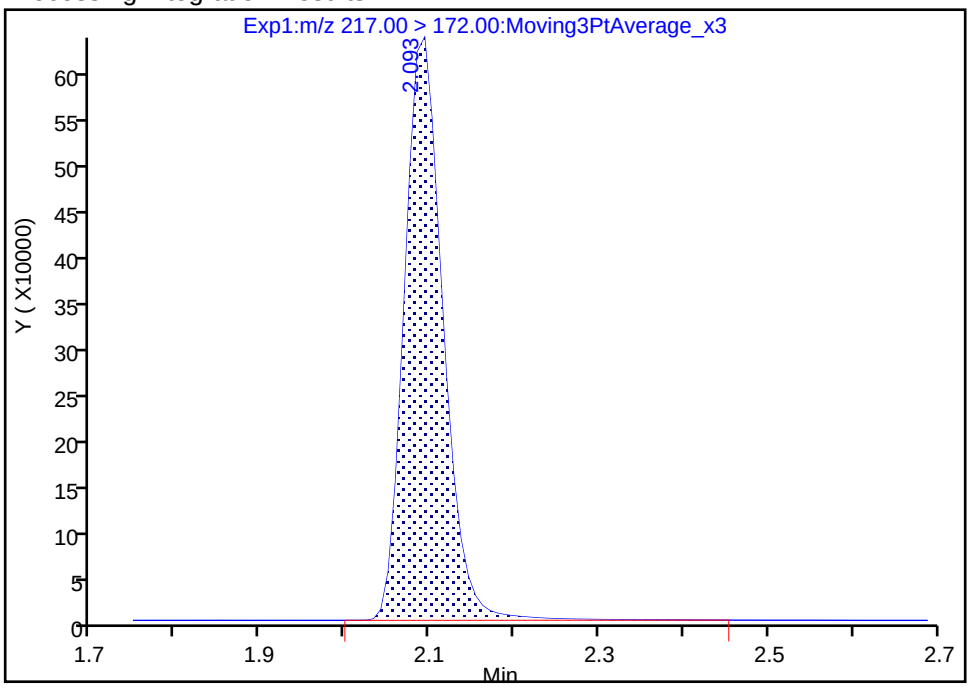
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

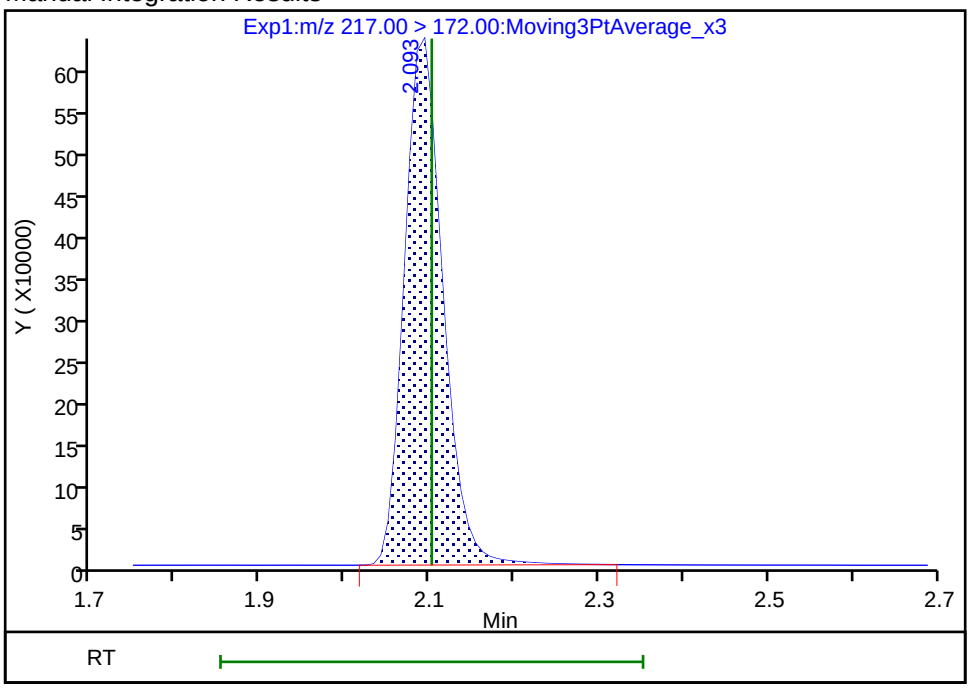
Processing Integration Results

RT: 2.09
Area: 2009546
Amount: 1.047507
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 2002875
Amount: 1.048729
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:20:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

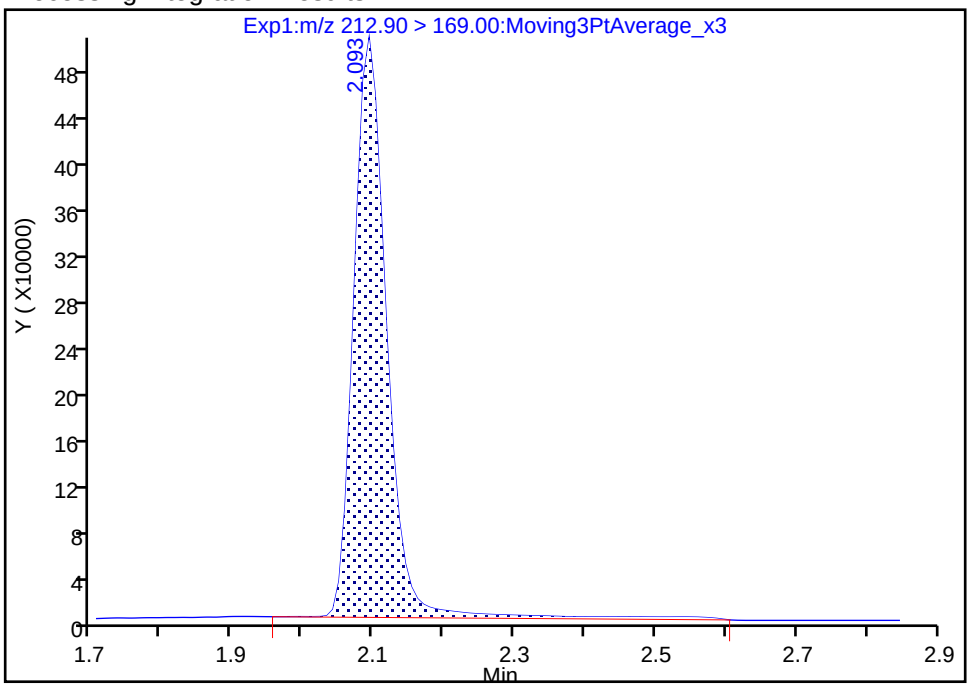
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

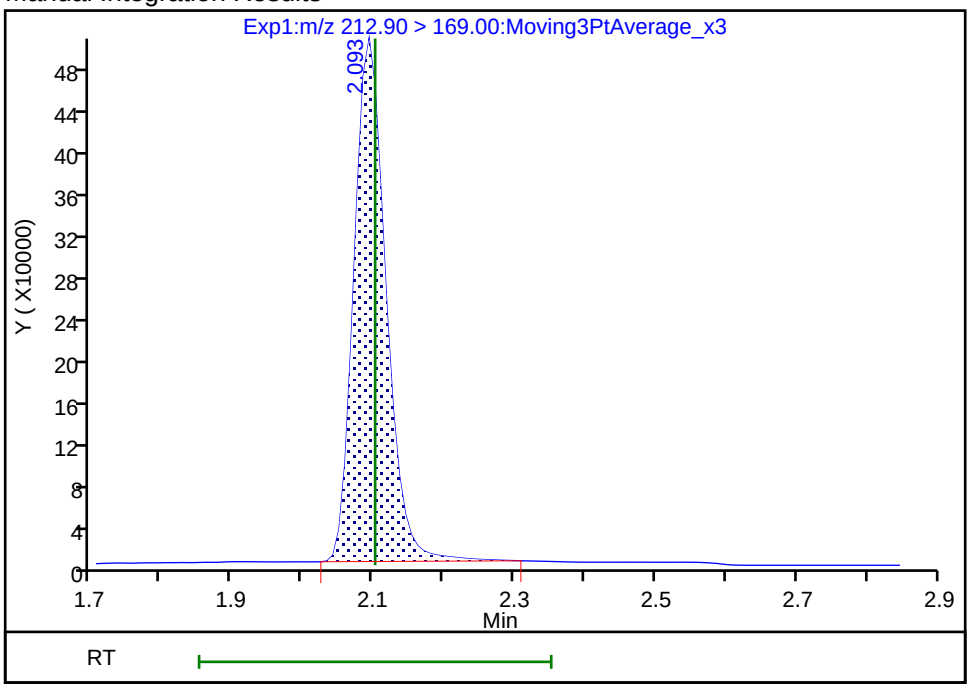
Processing Integration Results

RT: 2.09
Area: 1623723
Amount: 1.070264
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 1563165
Amount: 1.033779
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:20:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

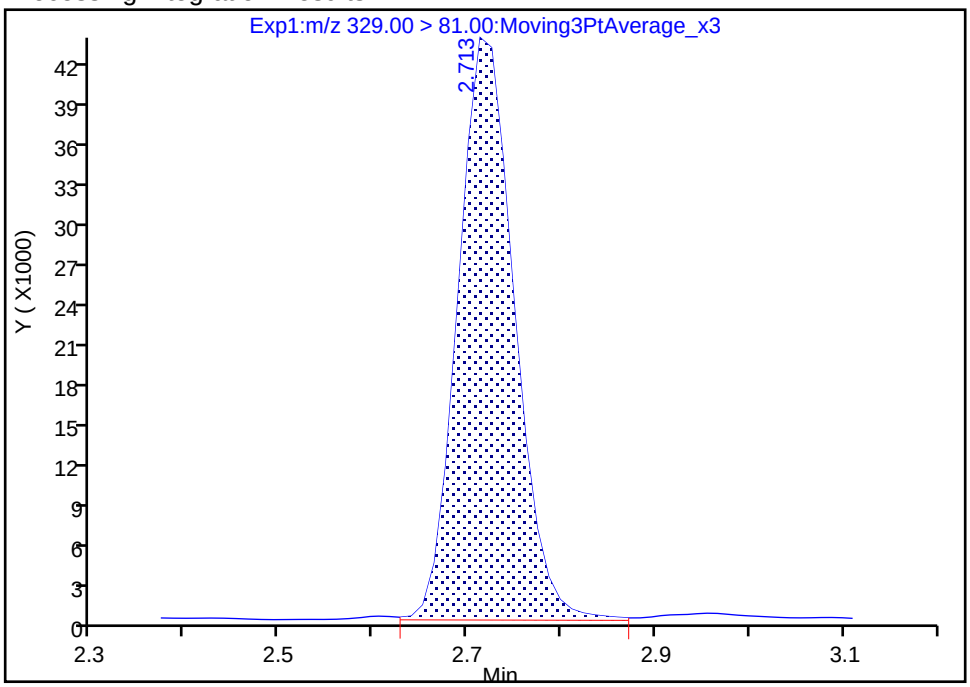
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d				
Injection Date:	05-May-2022 16:10:49	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

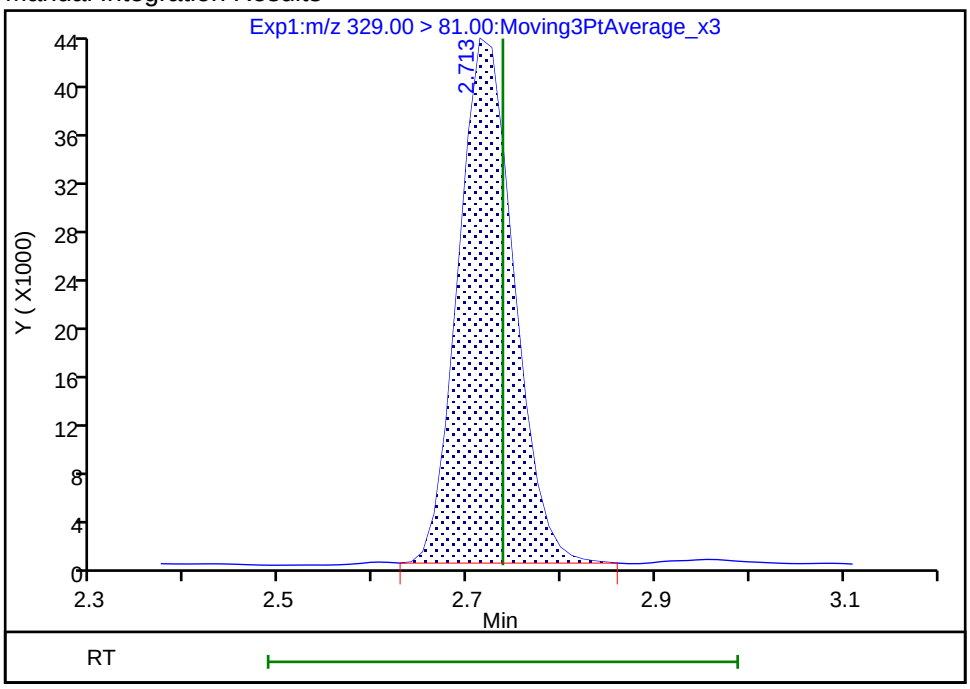
Processing Integration Results

RT: 2.71
Area: 179113
Amount: 1.018424
Amount Units: ng/ml



Manual Integration Results

RT: 2.71
Area: 176080
Amount: 1.005685
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:20:54

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

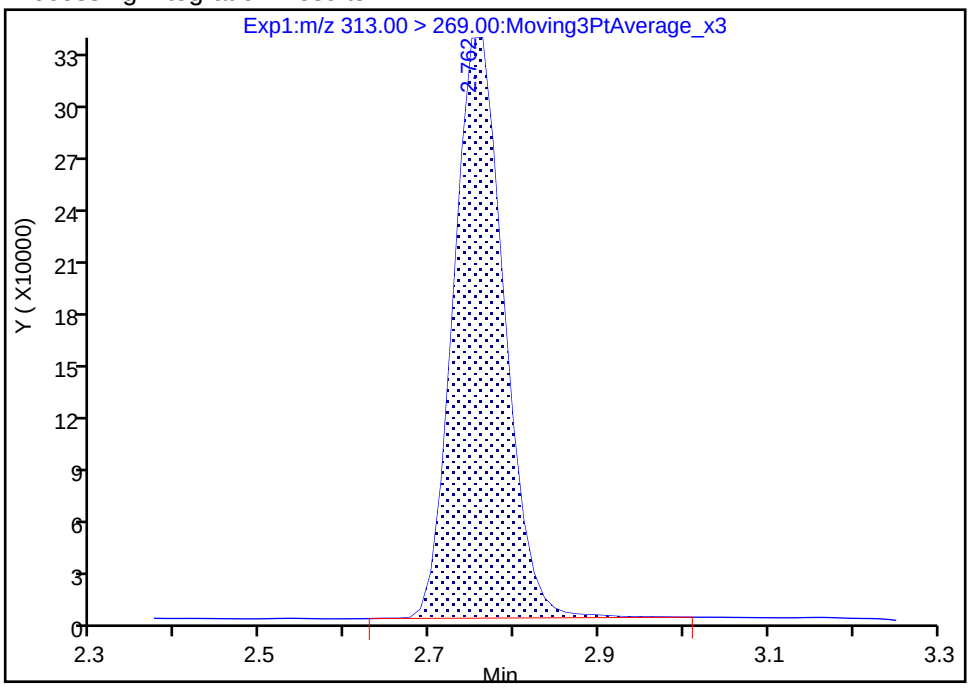
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d				
Injection Date:	05-May-2022 16:10:49	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

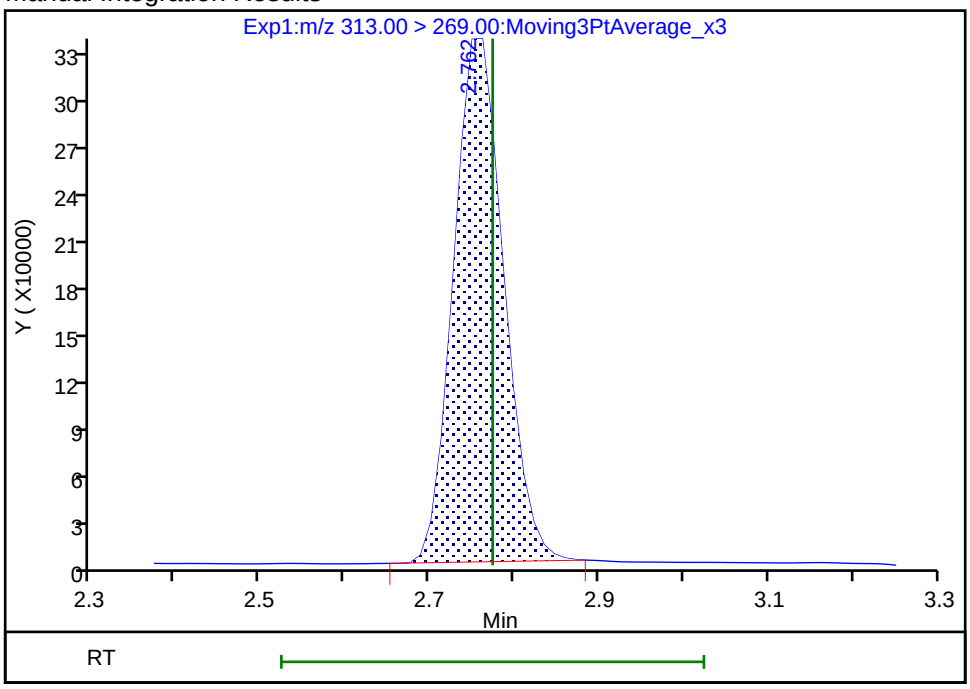
Processing Integration Results

RT: 2.76
Area: 1394735
Amount: 0.965154
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 1377528
Amount: 0.953247
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:21:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

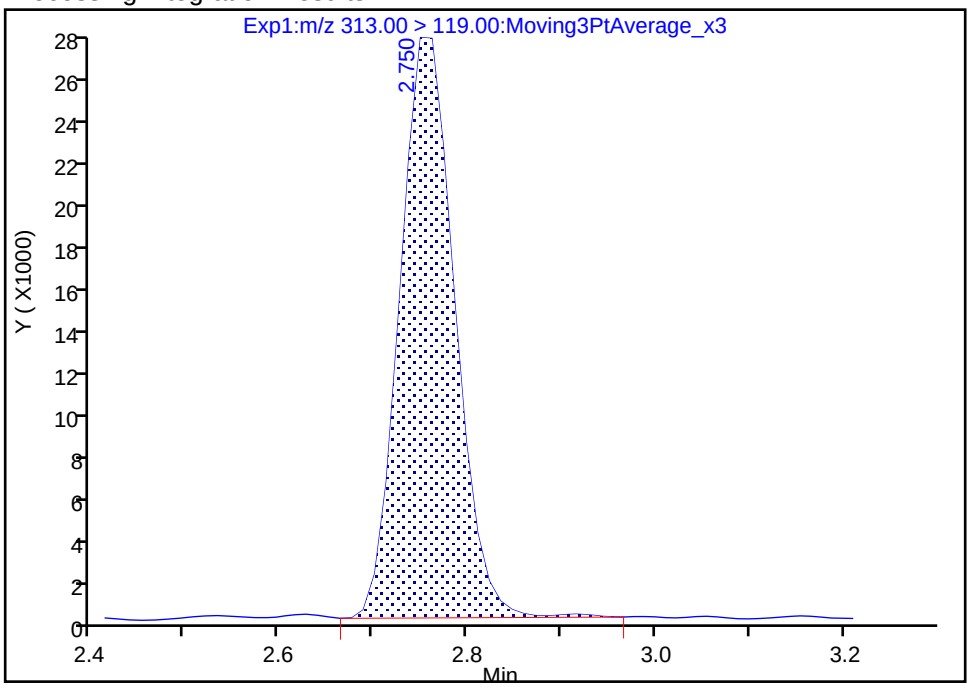
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d				
Injection Date:	05-May-2022 16:10:49	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

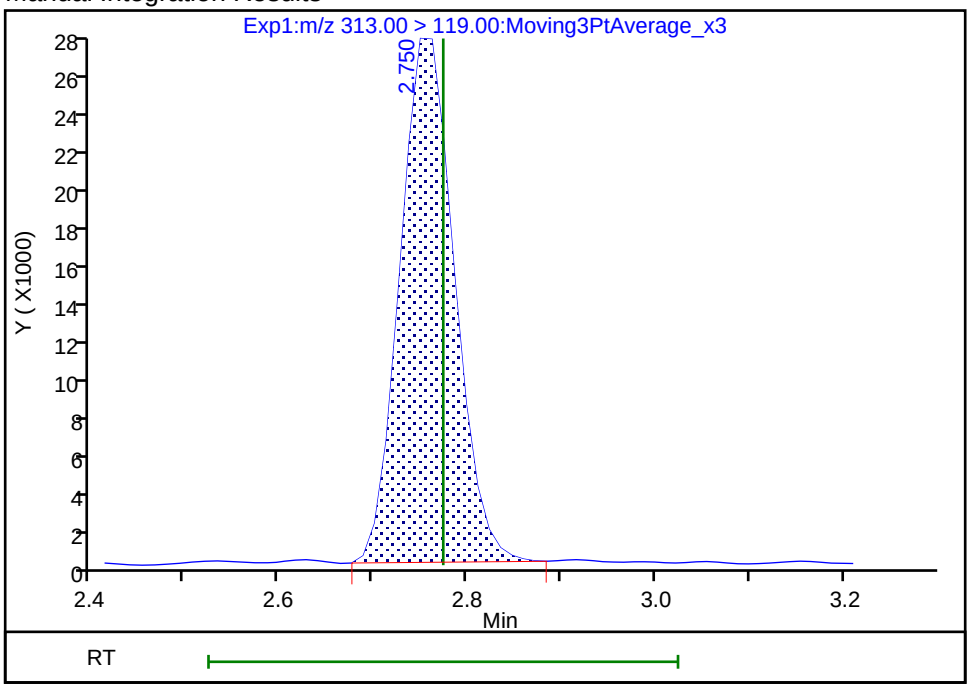
Processing Integration Results

RT: 2.75
Area: 110737
Amount: 0.965154
Amount Units: ng/ml



Manual Integration Results

RT: 2.75
Area: 109820
Amount: 0.953247
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:21:04

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

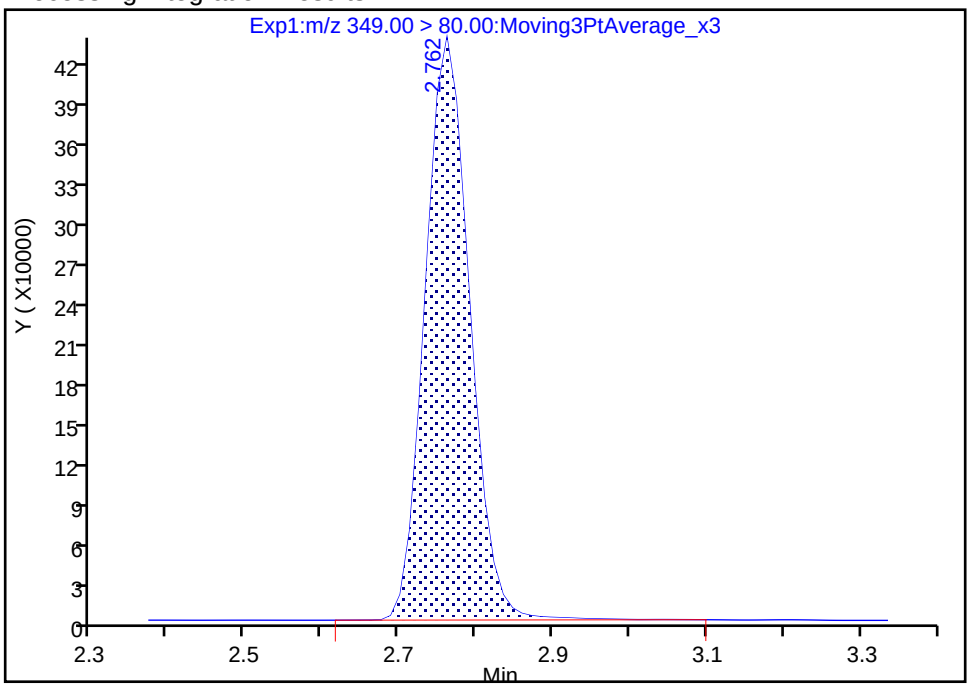
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

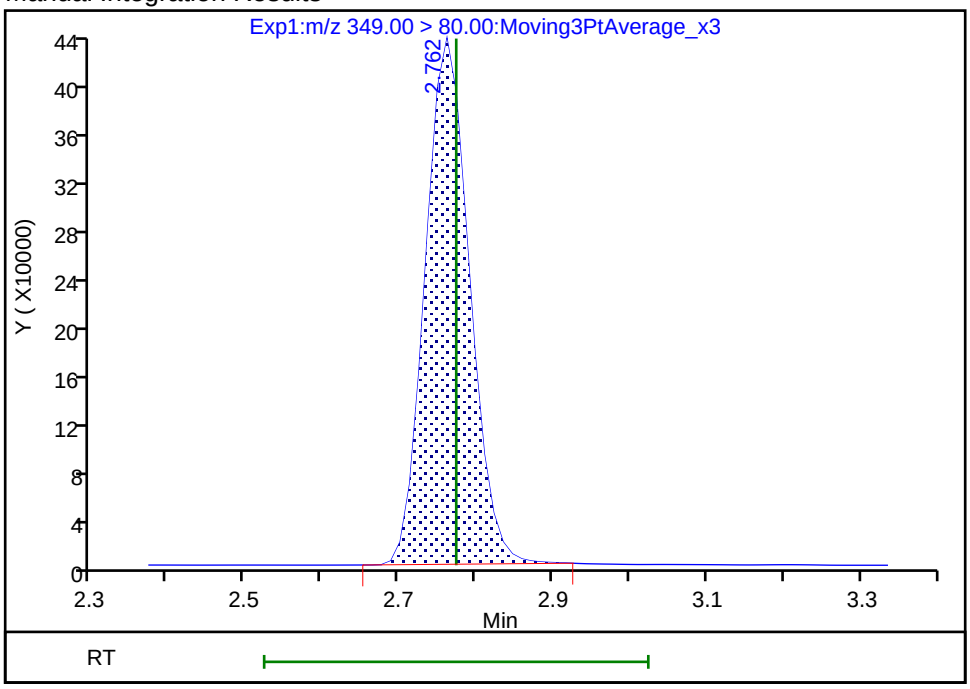
Processing Integration Results

RT: 2.76
Area: 1763426
Amount: 1.007935
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 1748402
Amount: 1.007540
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:21:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

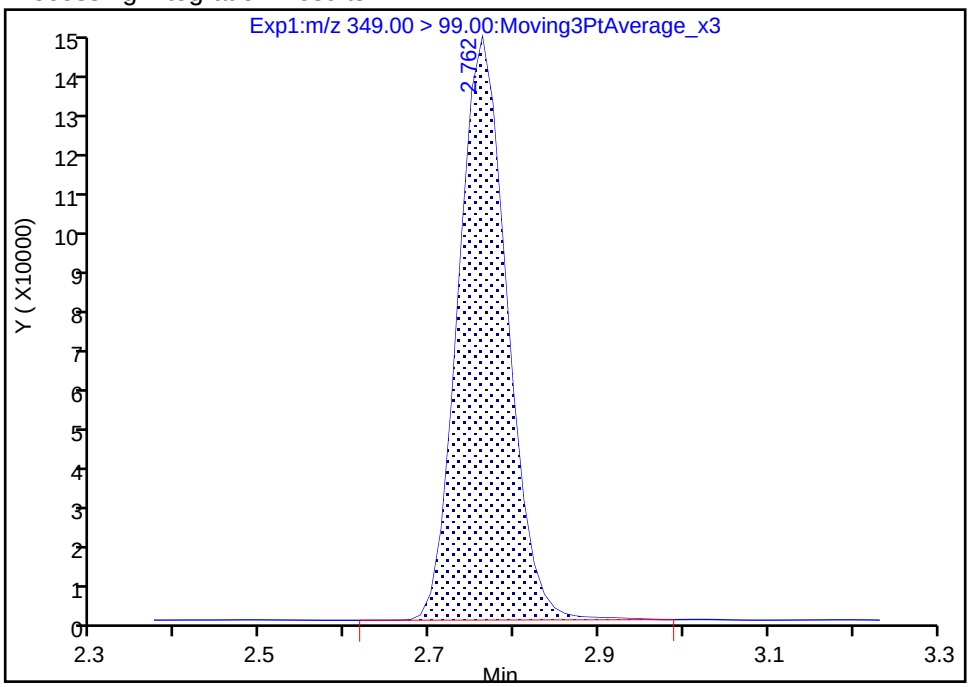
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d				
Injection Date:	05-May-2022 16:10:49	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 2

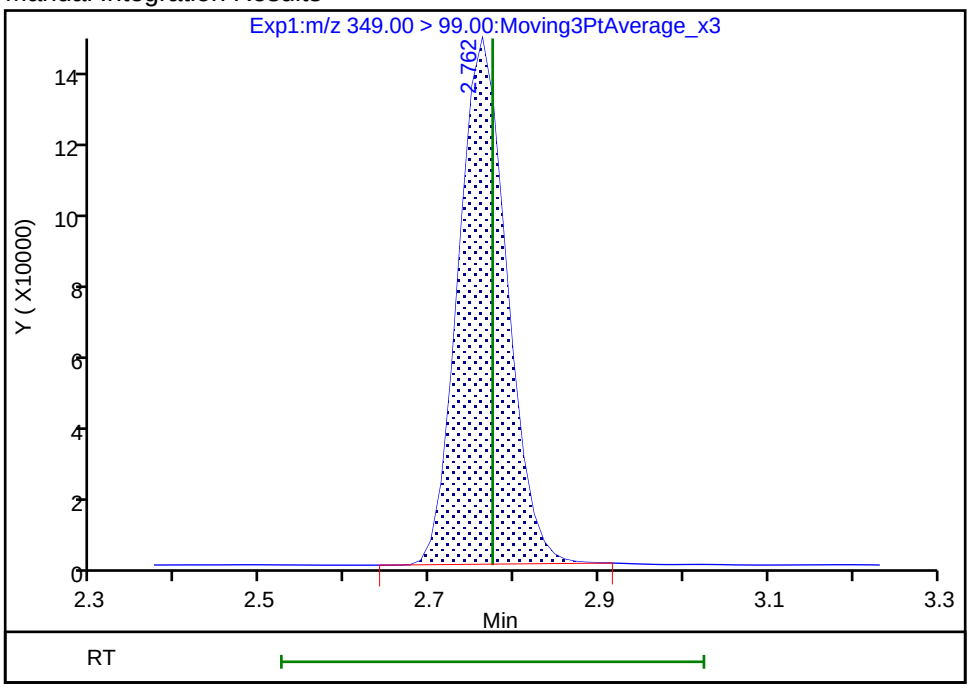
Processing Integration Results

RT: 2.76
Area: 593700
Amount: 1.007935
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 589052
Amount: 1.007540
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:21:13

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

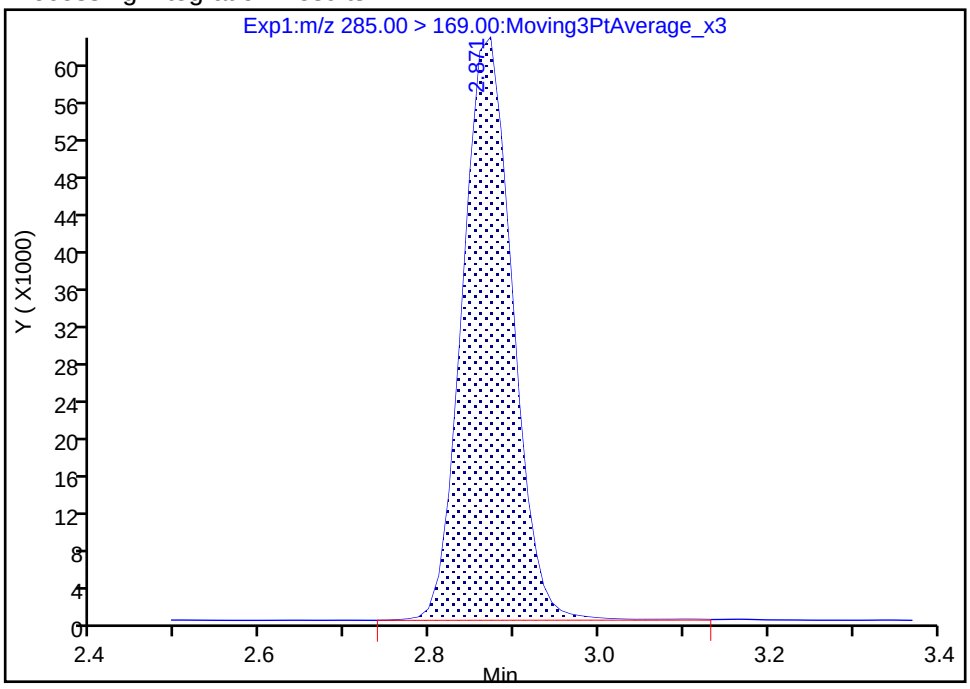
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d				
Injection Date:	05-May-2022 16:10:49	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

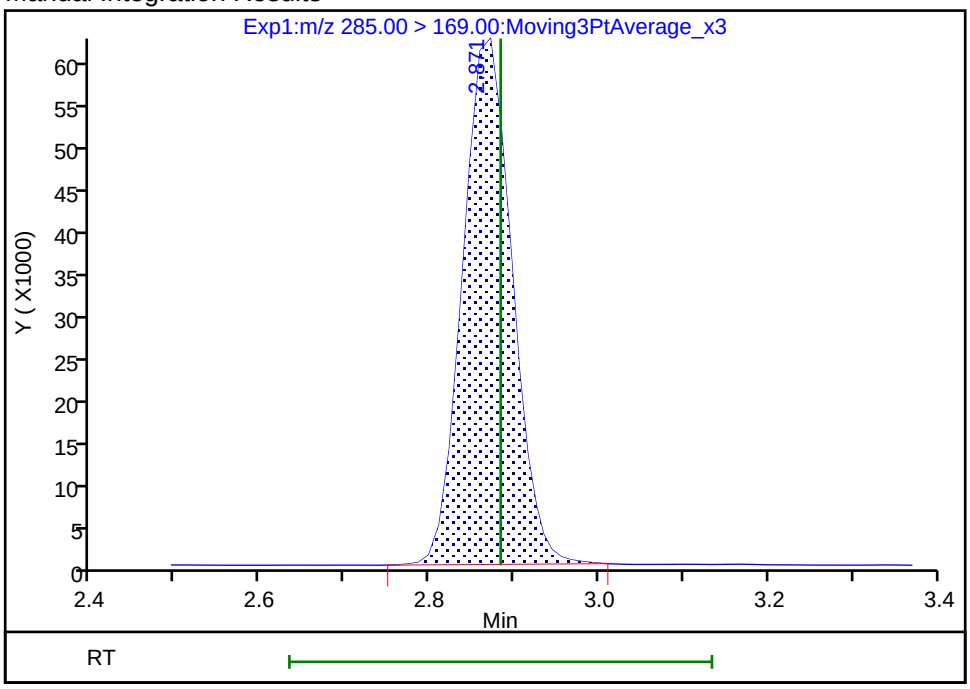
Processing Integration Results

RT: 2.87
Area: 256774
Amount: 1.012101
Amount Units: ng/ml



Manual Integration Results

RT: 2.87
Area: 254819
Amount: 1.004396
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:21:18

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

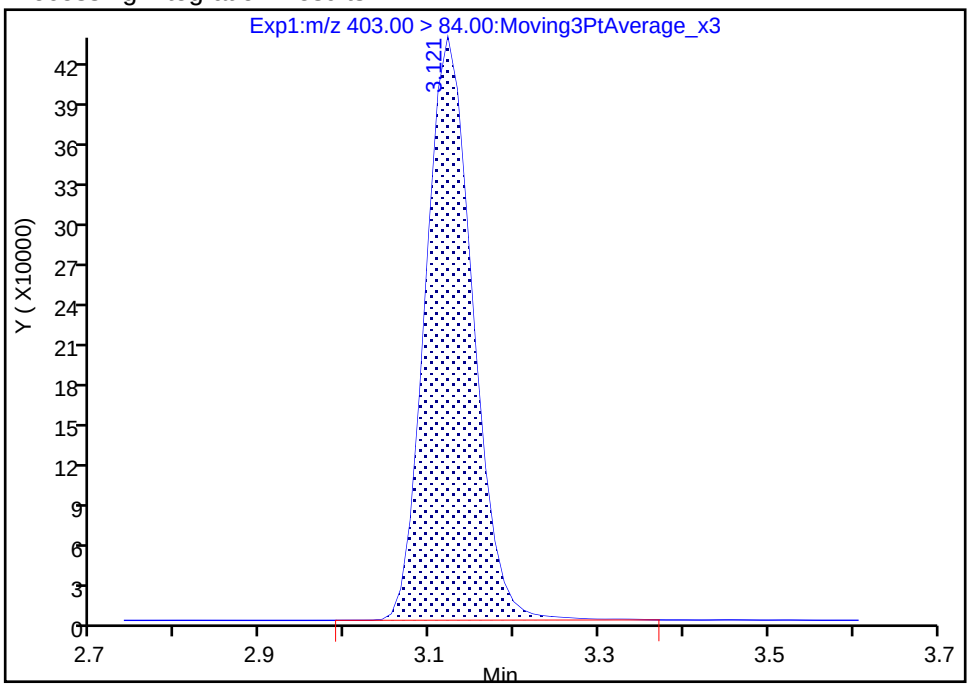
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

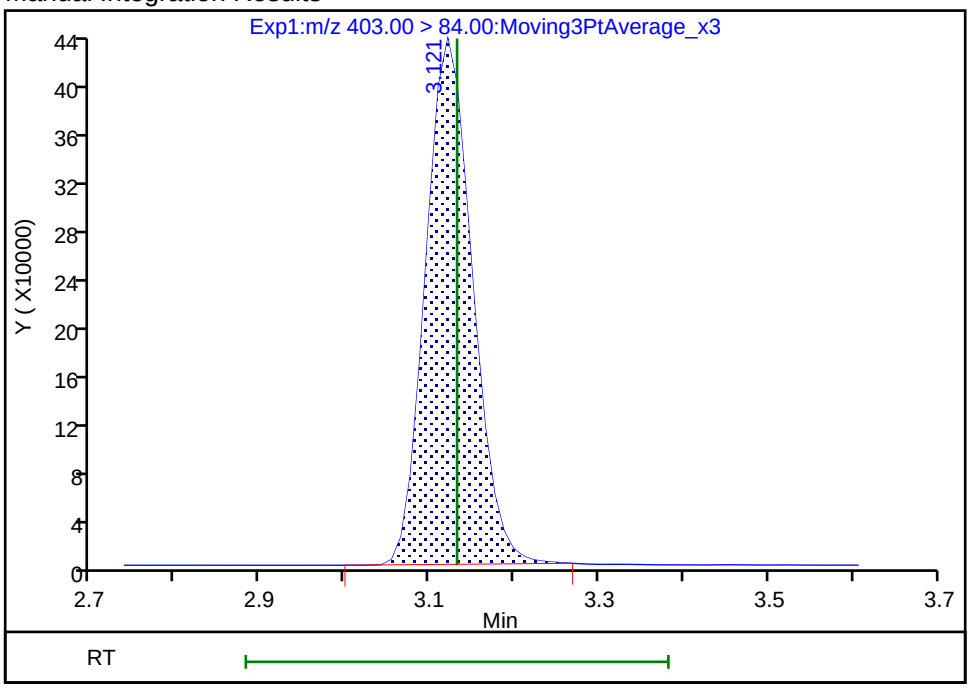
Processing Integration Results

RT: 3.12
Area: 1675167
Amount: 1.007232
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 1661546
Amount: 1.003539
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:21:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

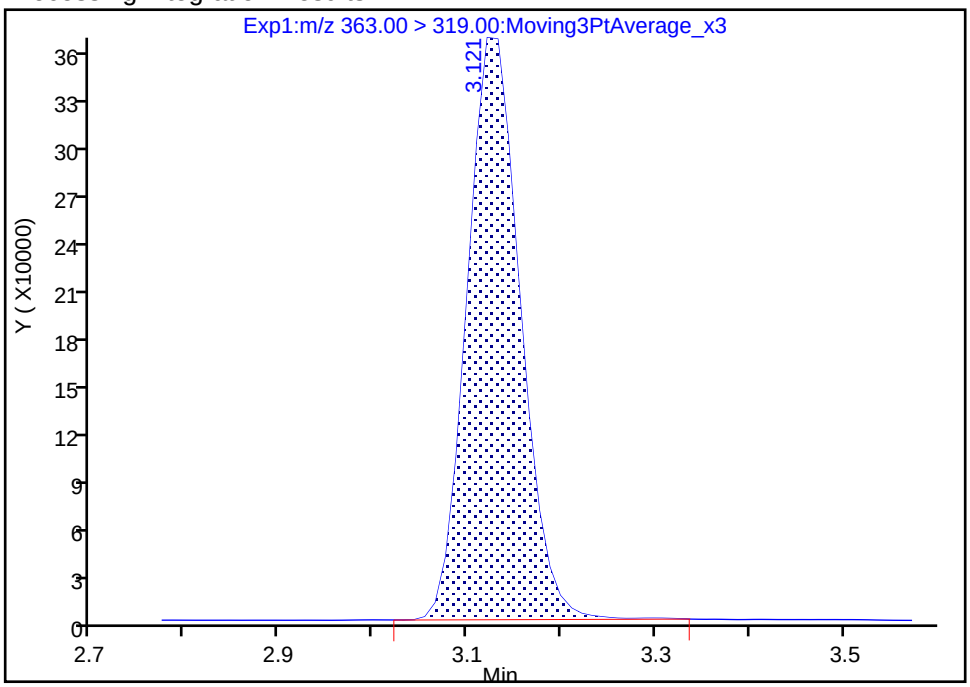
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d				
Injection Date:	05-May-2022 16:10:49	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

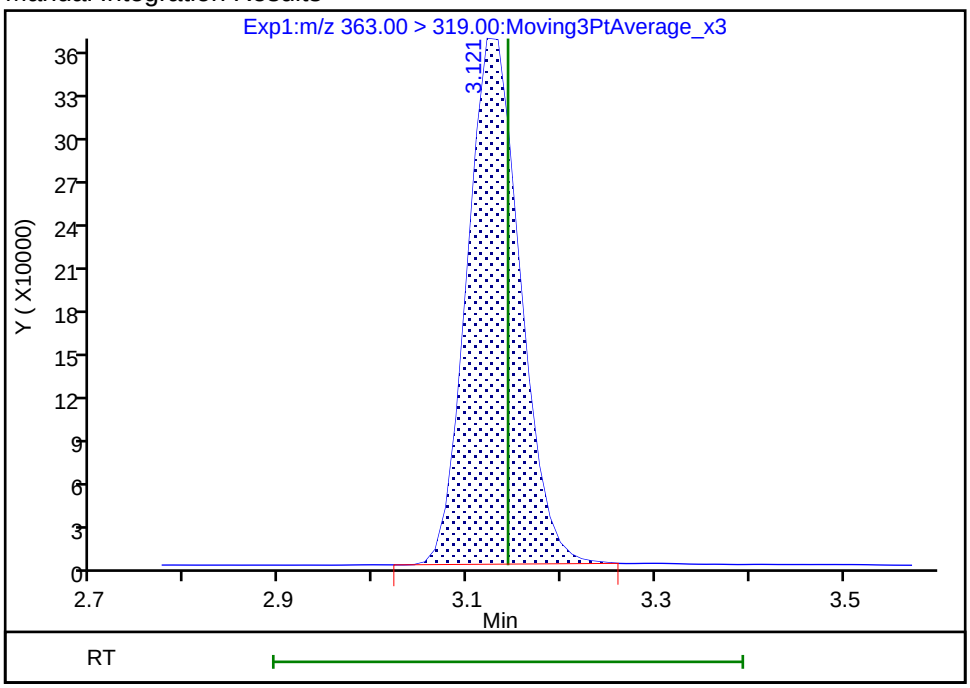
Processing Integration Results

RT: 3.12
Area: 1415671
Amount: 0.986202
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 1408595
Amount: 0.981273
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:21:37

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

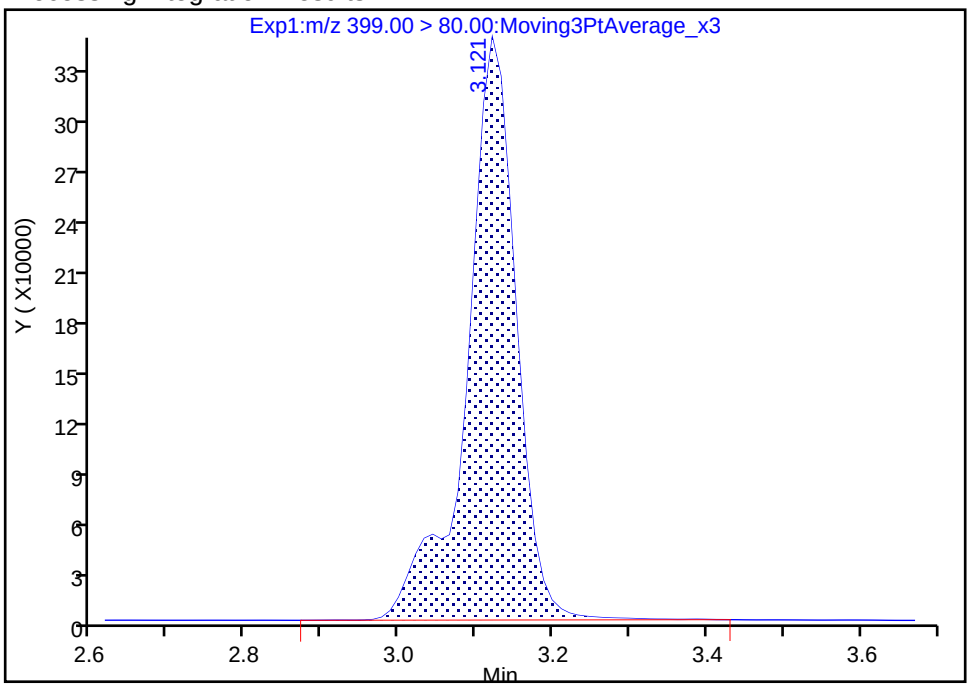
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

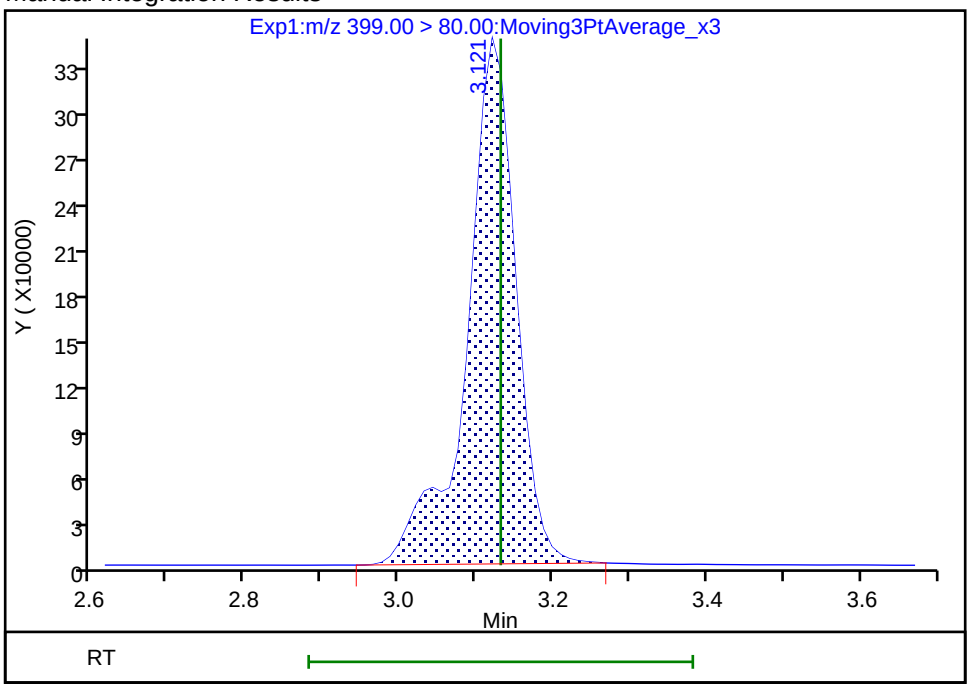
Processing Integration Results

RT: 3.12
Area: 1527884
Amount: 0.983799
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 1512046
Amount: 0.973601
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:21:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

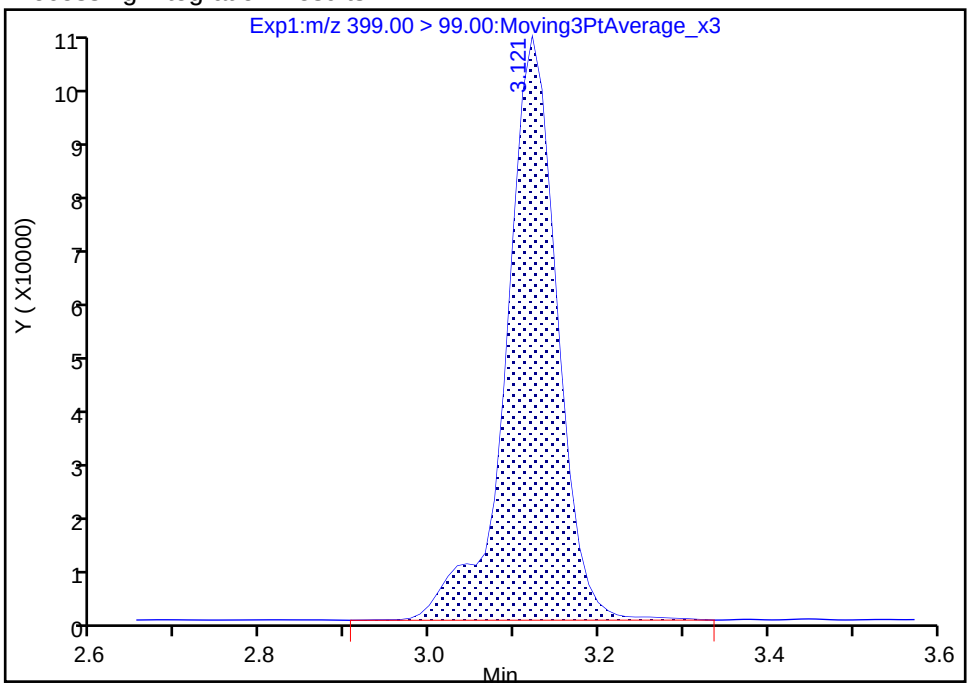
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d				
Injection Date:	05-May-2022 16:10:49	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

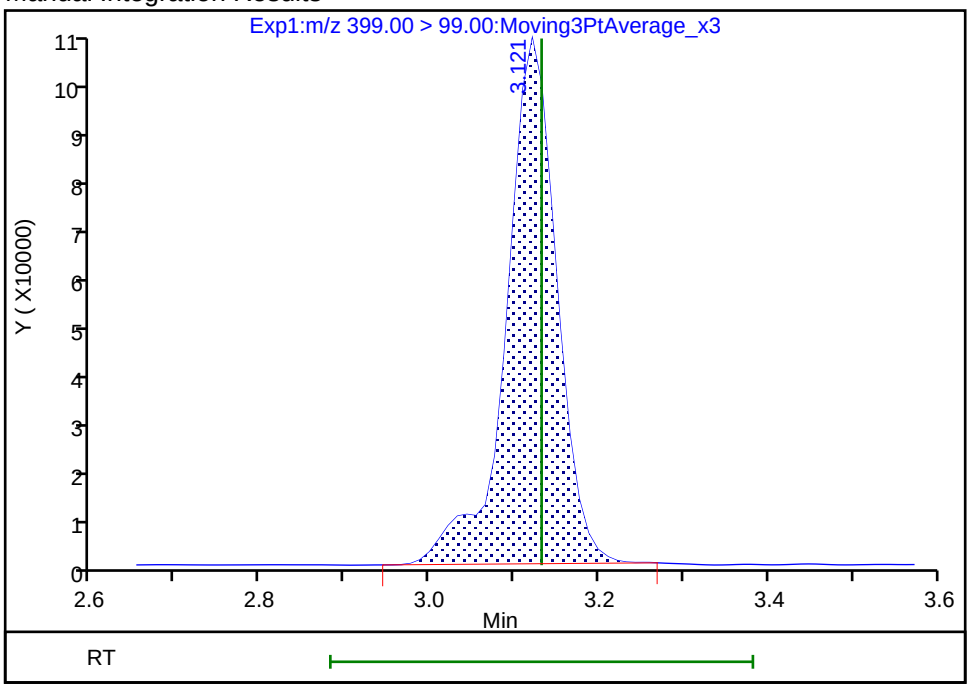
Processing Integration Results

RT: 3.12
Area: 431214
Amount: 0.983799
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 425637
Amount: 0.973601
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:21:31

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

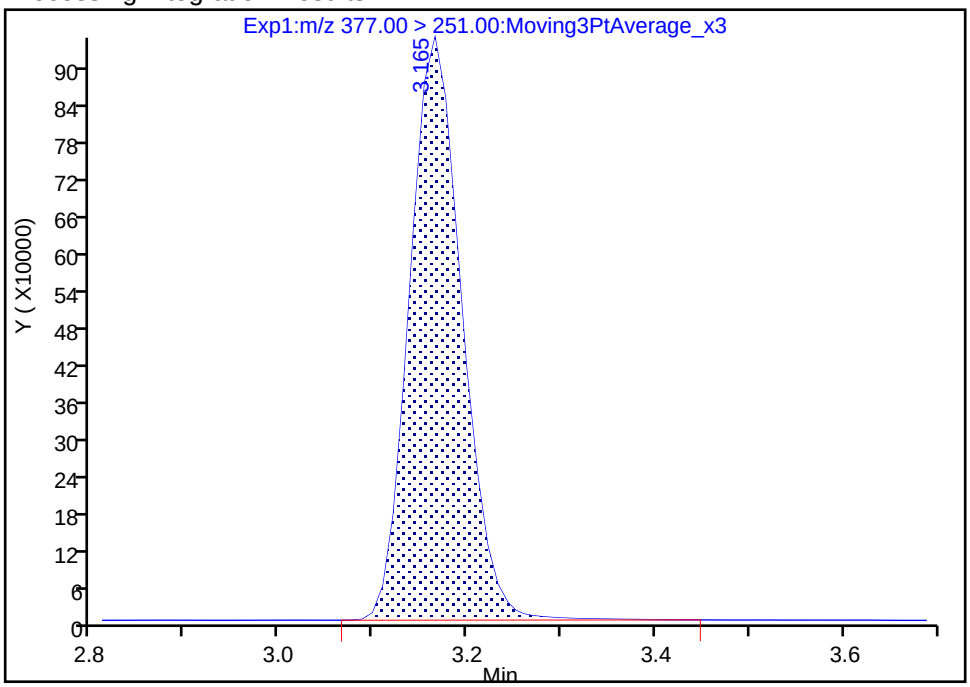
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

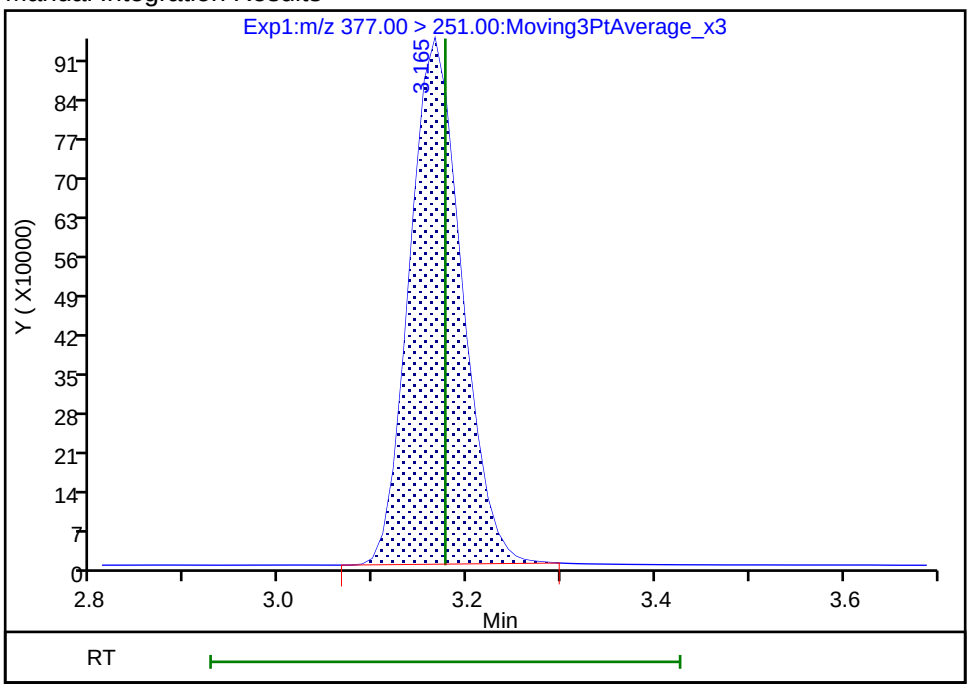
Processing Integration Results

RT: 3.17
Area: 3671016
Amount: 1.019348
Amount Units: ng/ml



Manual Integration Results

RT: 3.17
Area: 3637198
Amount: 1.009958
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:21:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

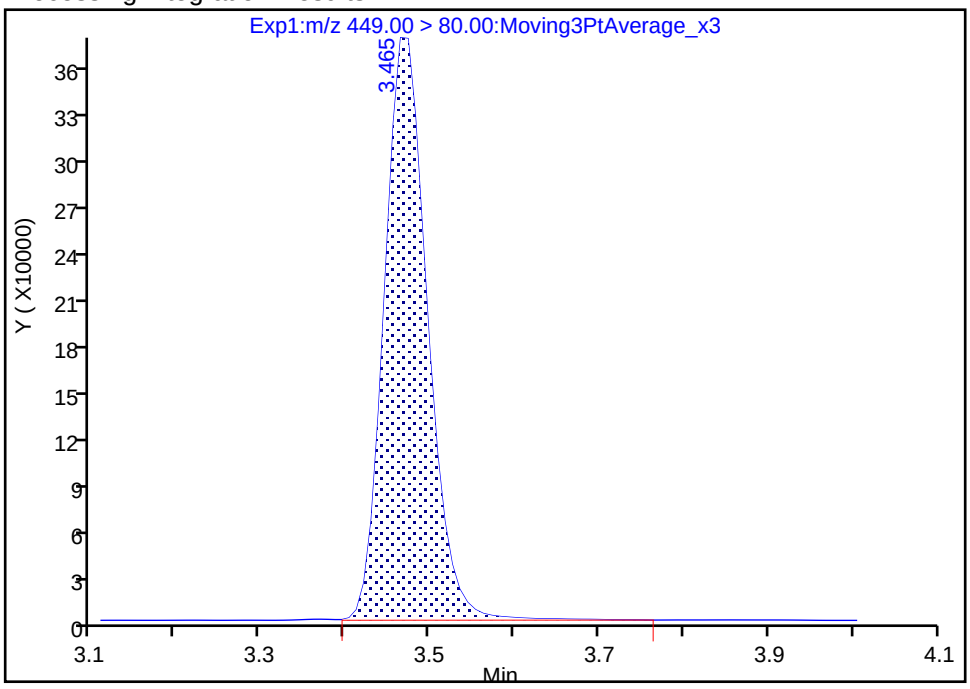
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

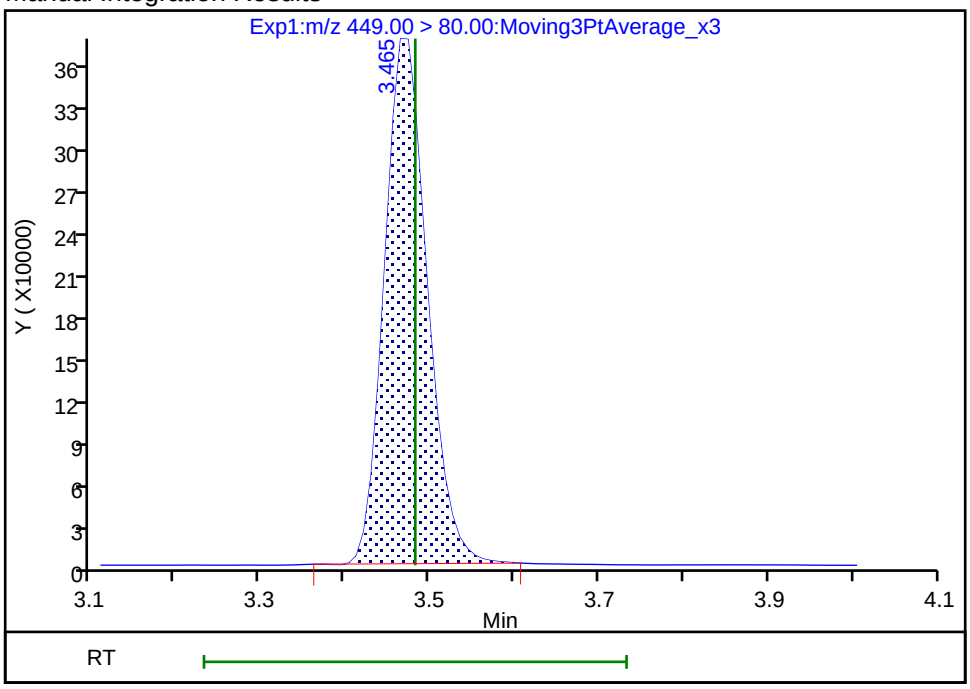
Processing Integration Results

RT: 3.47
Area: 1314142
Amount: 0.970051
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 1295890
Amount: 0.956578
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:21:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

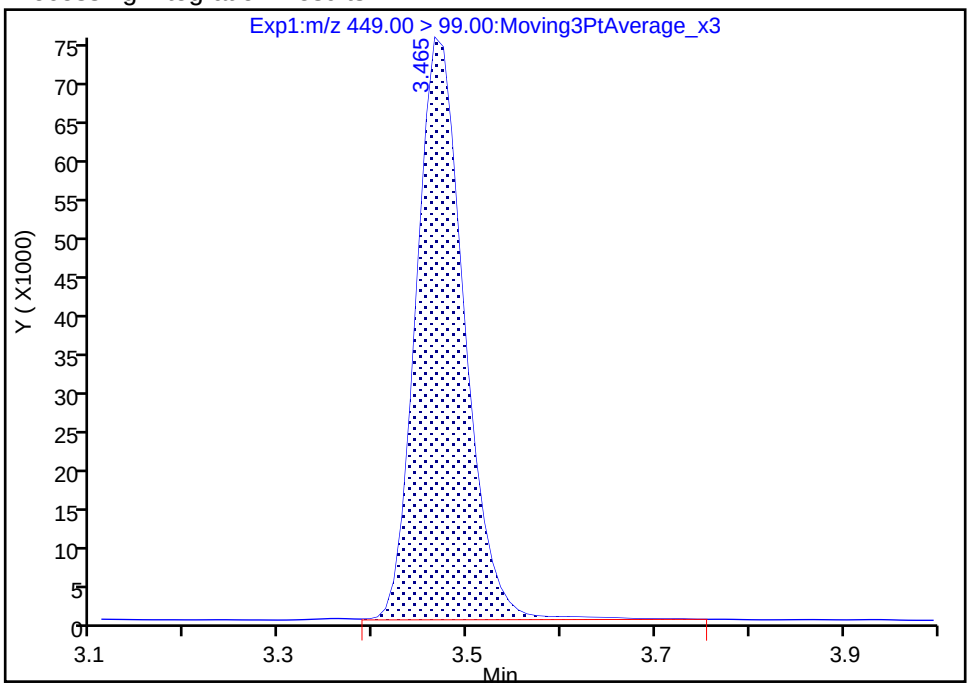
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d				
Injection Date:	05-May-2022 16:10:49	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

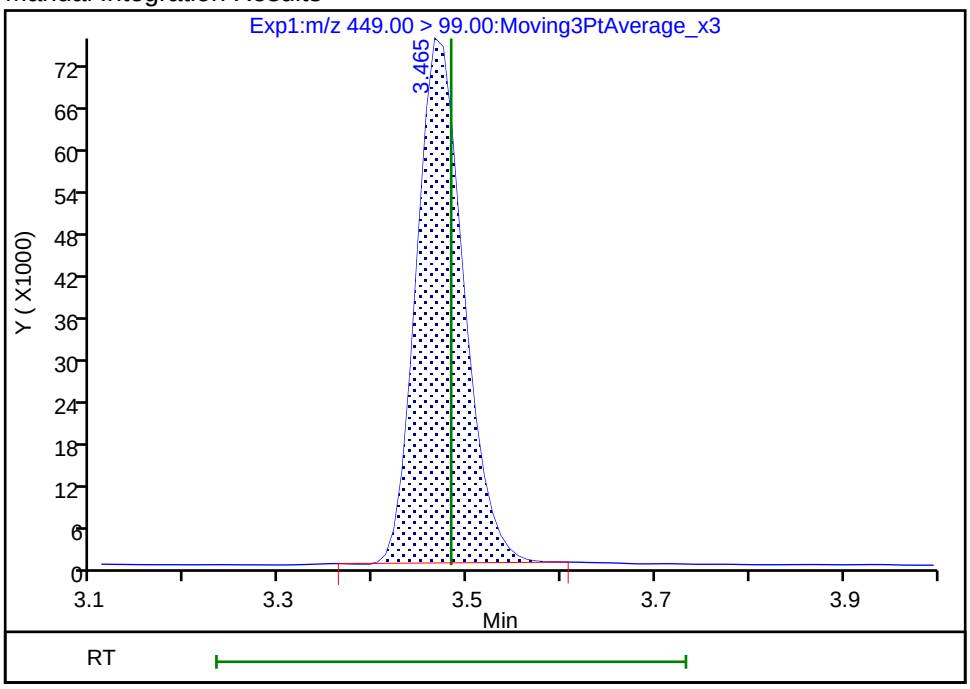
Processing Integration Results

RT: 3.47
Area: 267838
Amount: 0.970051
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 262794
Amount: 0.956578
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:21:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

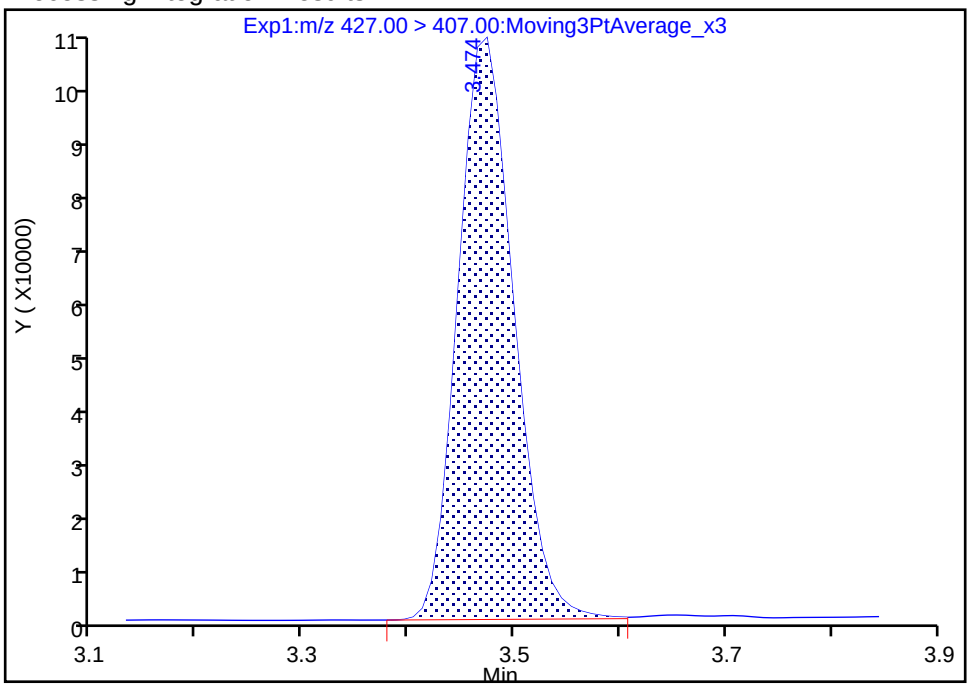
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

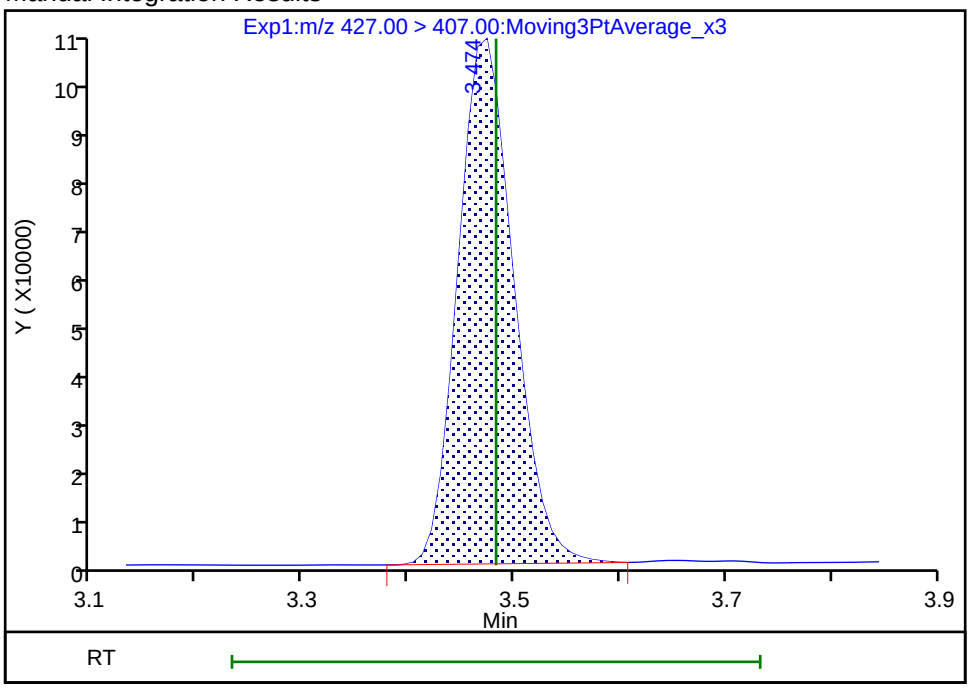
Processing Integration Results

RT: 3.47
Area: 376385
Amount: 1.020184
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 374764
Amount: 1.015672
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:21:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

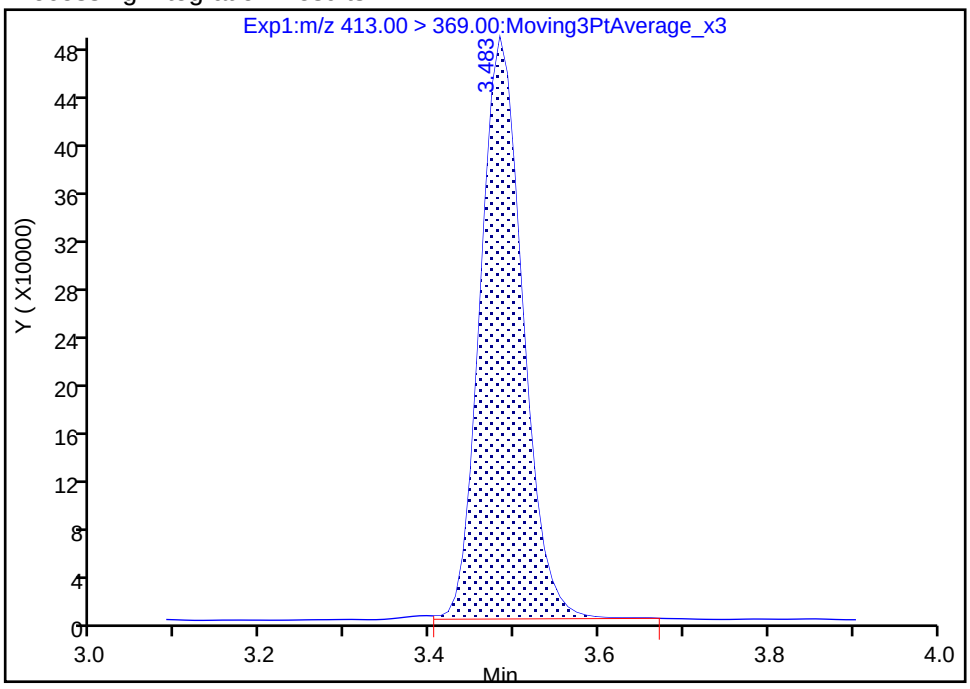
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

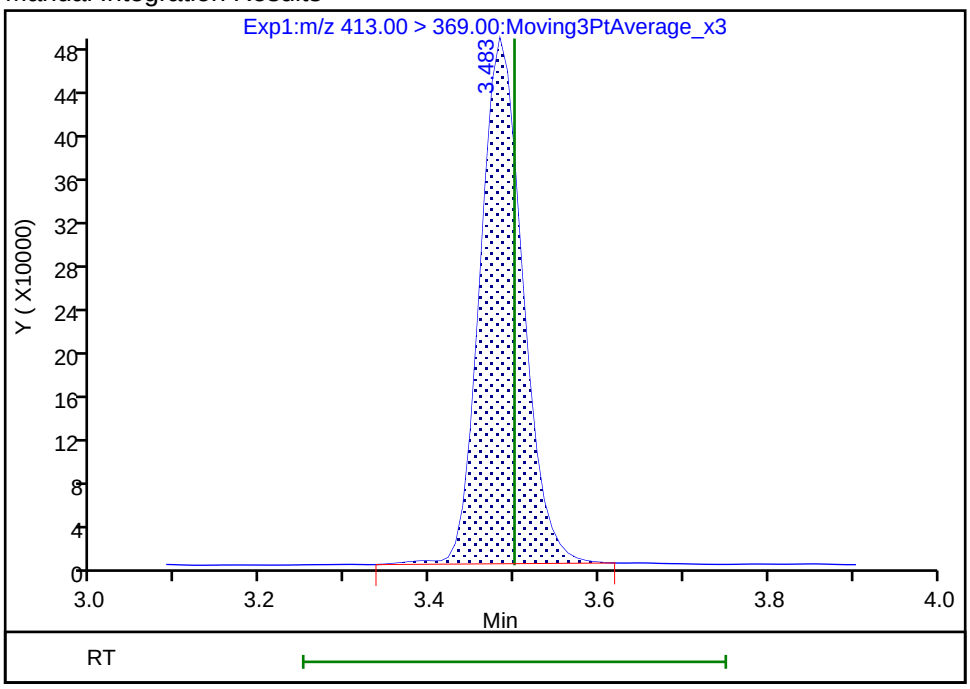
Processing Integration Results

RT: 3.48
Area: 1663893
Amount: 0.969445
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 1665904
Amount: 0.970617
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:22:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

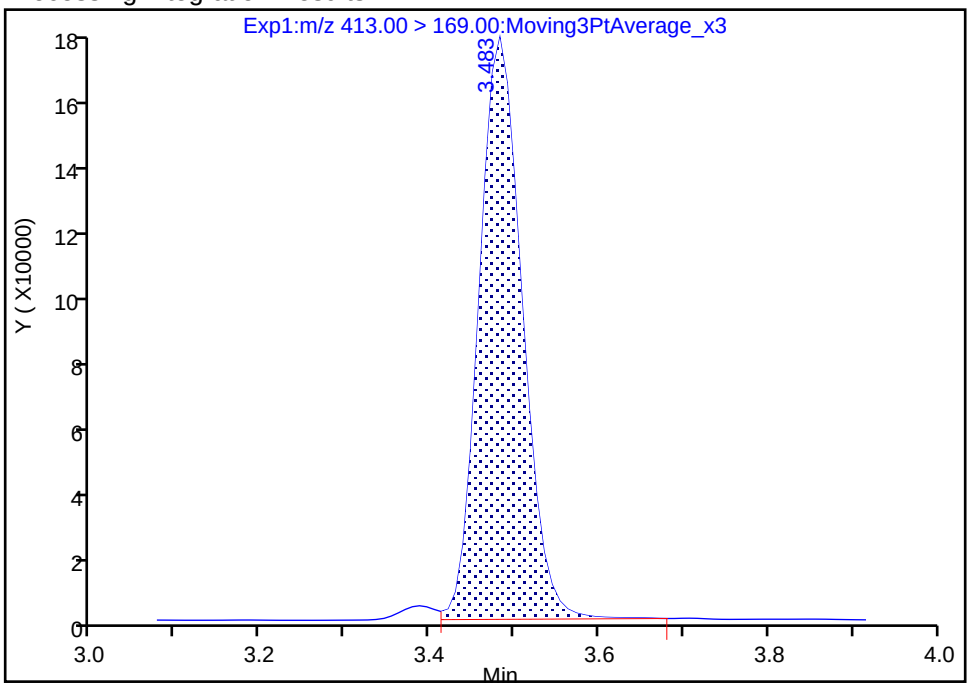
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d				
Injection Date:	05-May-2022 16:10:49	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

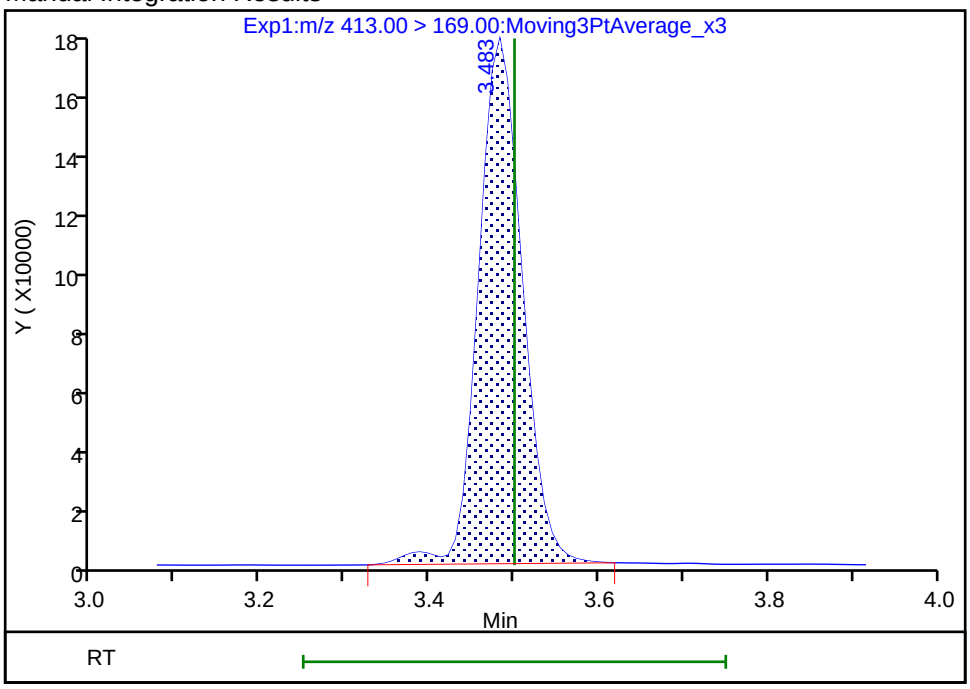
Processing Integration Results

RT: 3.48
Area: 621967
Amount: 0.969445
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 629893
Amount: 0.970617
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:22:20

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

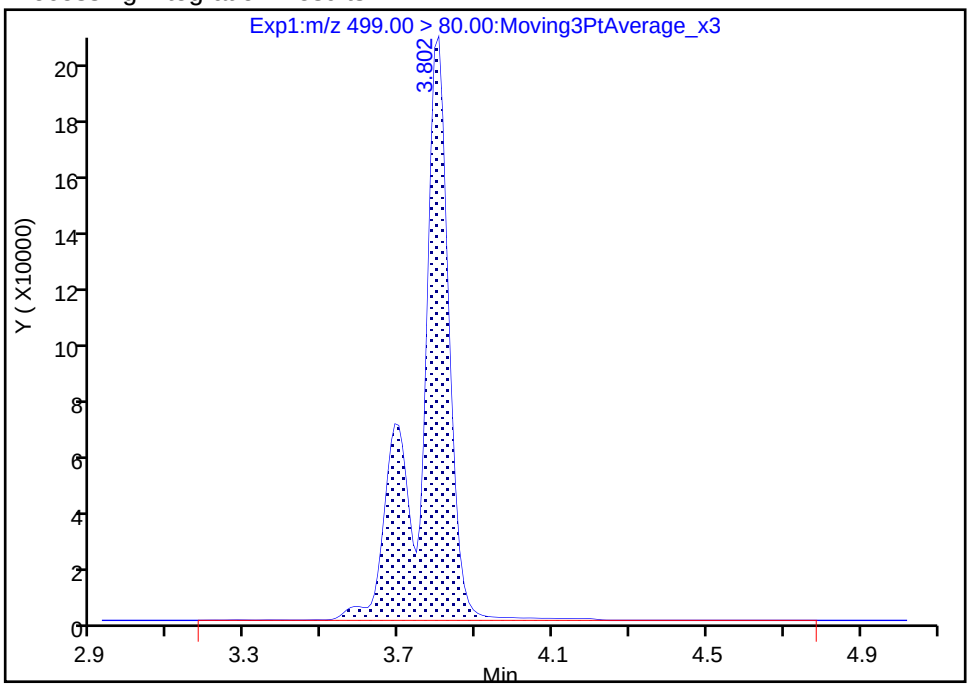
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

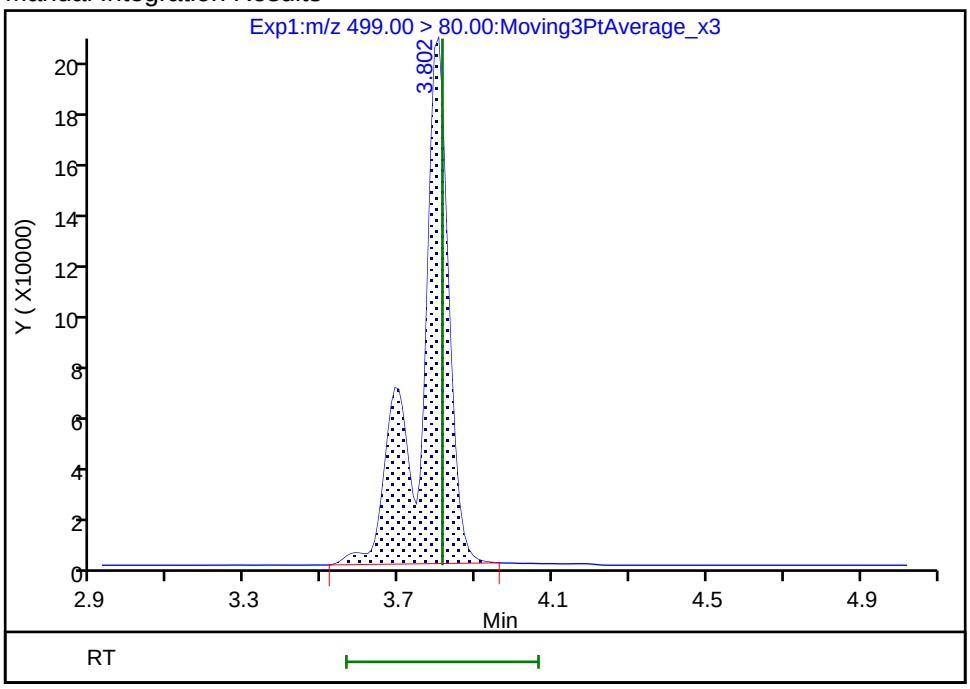
Processing Integration Results

RT: 3.80
Area: 1076665
Amount: 0.894553
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 1052058
Amount: 0.874108
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:22:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

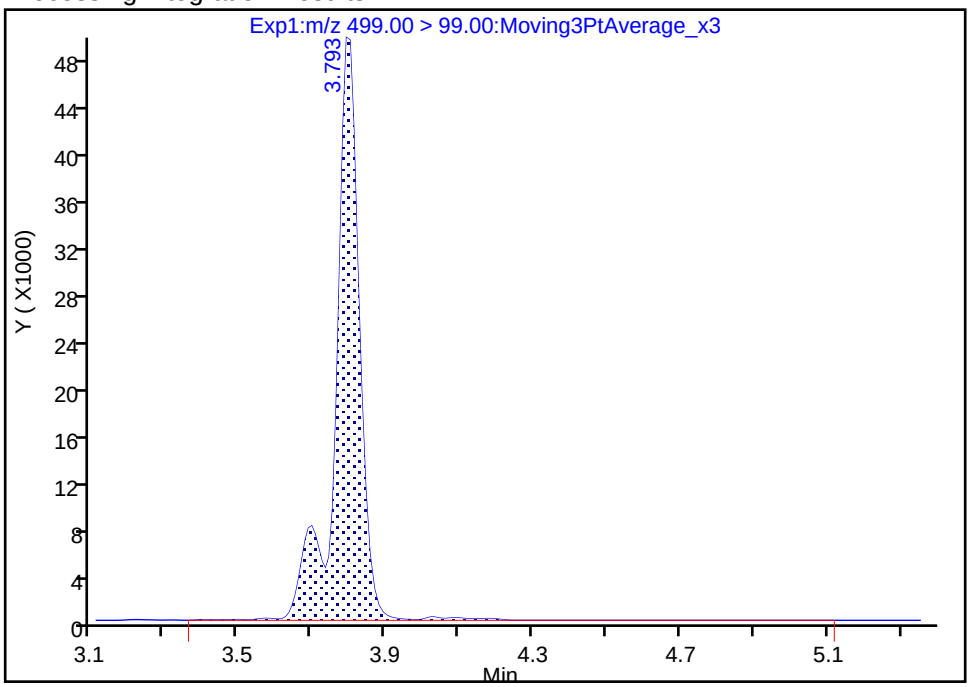
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d				
Injection Date:	05-May-2022 16:10:49	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

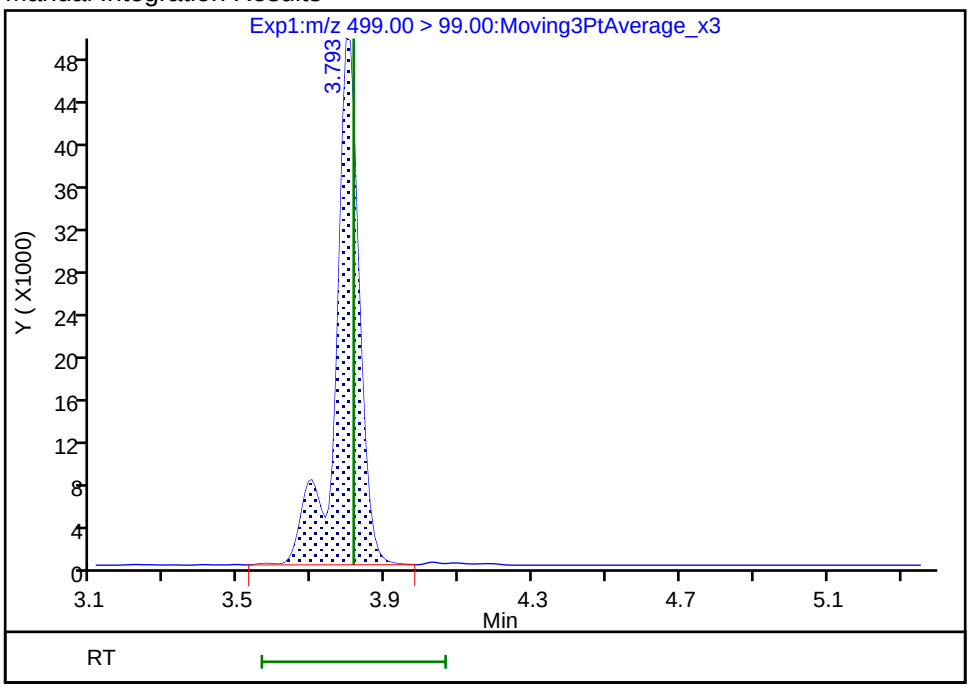
Processing Integration Results

RT: 3.79
Area: 228747
Amount: 0.894553
Amount Units: ng/ml



Manual Integration Results

RT: 3.79
Area: 225129
Amount: 0.874108
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:22:44

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

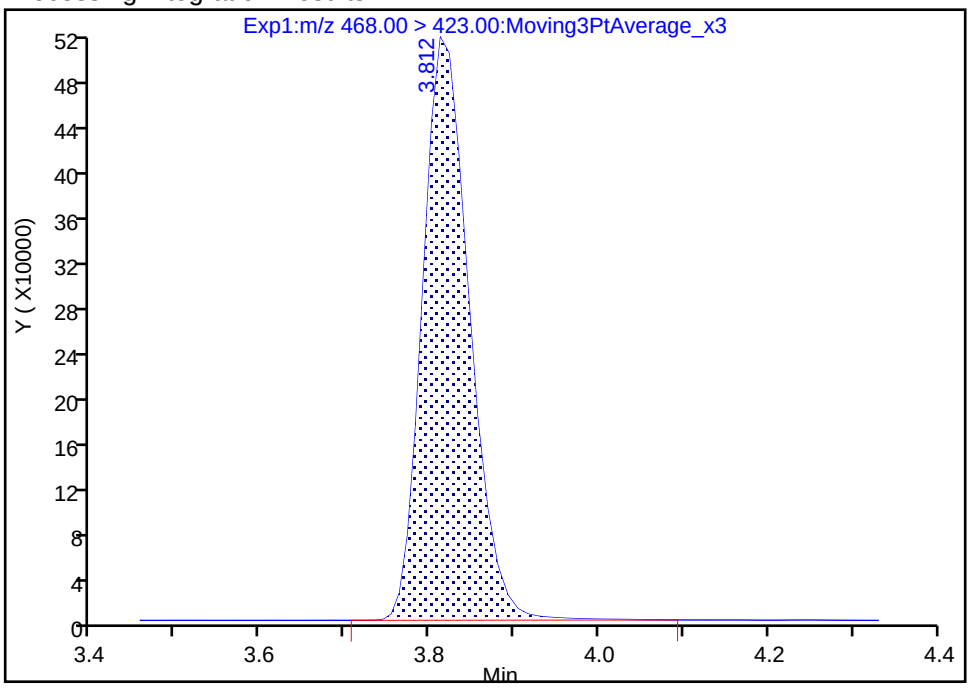
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

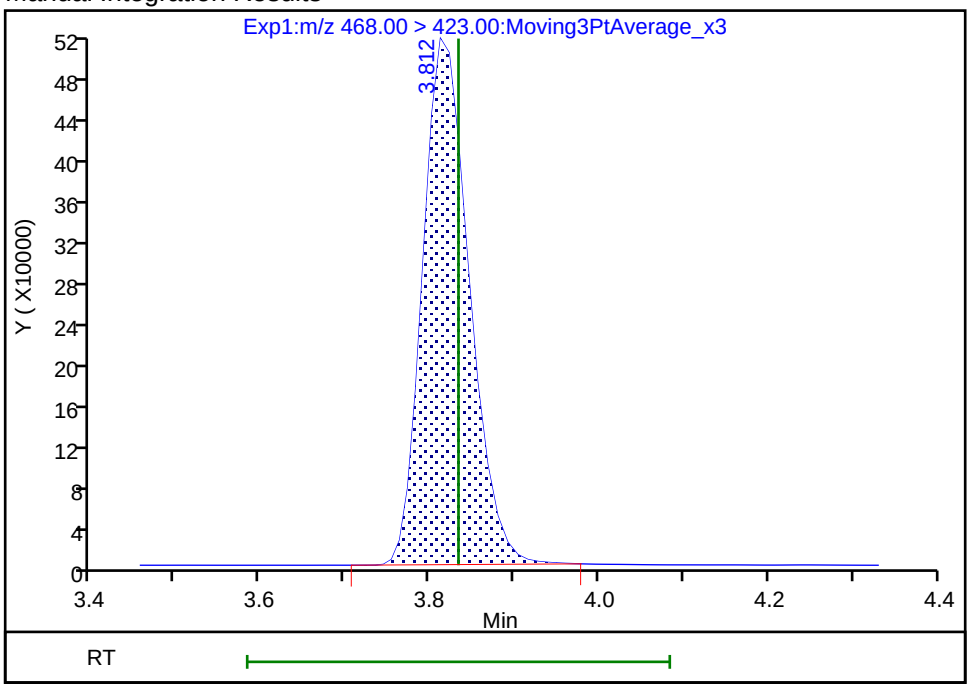
Processing Integration Results

RT: 3.81
Area: 1987712
Amount: 1.080043
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 1975733
Amount: 1.073534
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:23:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

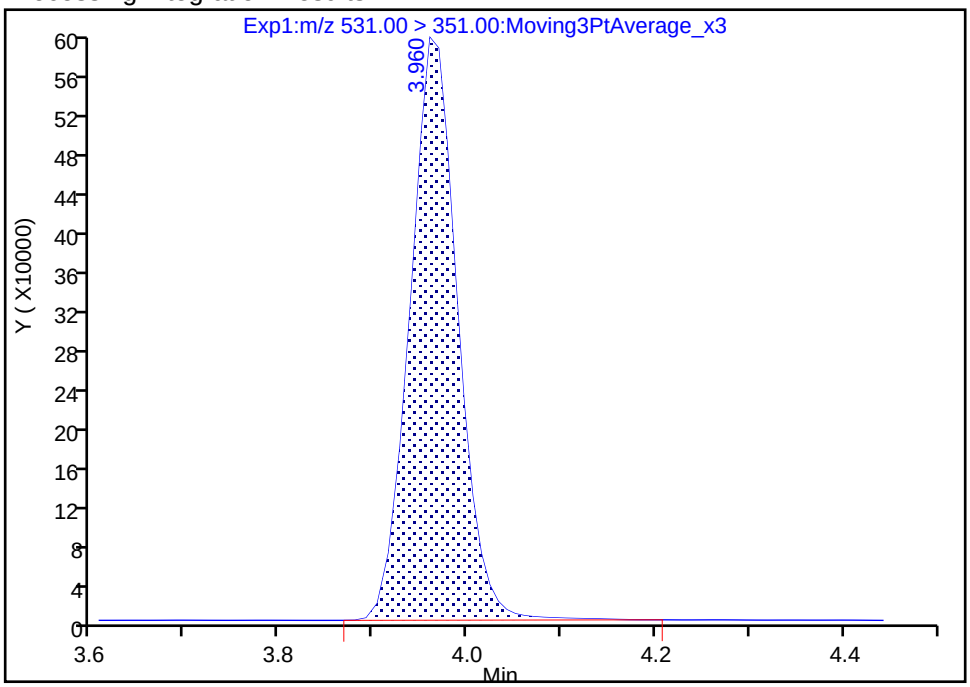
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

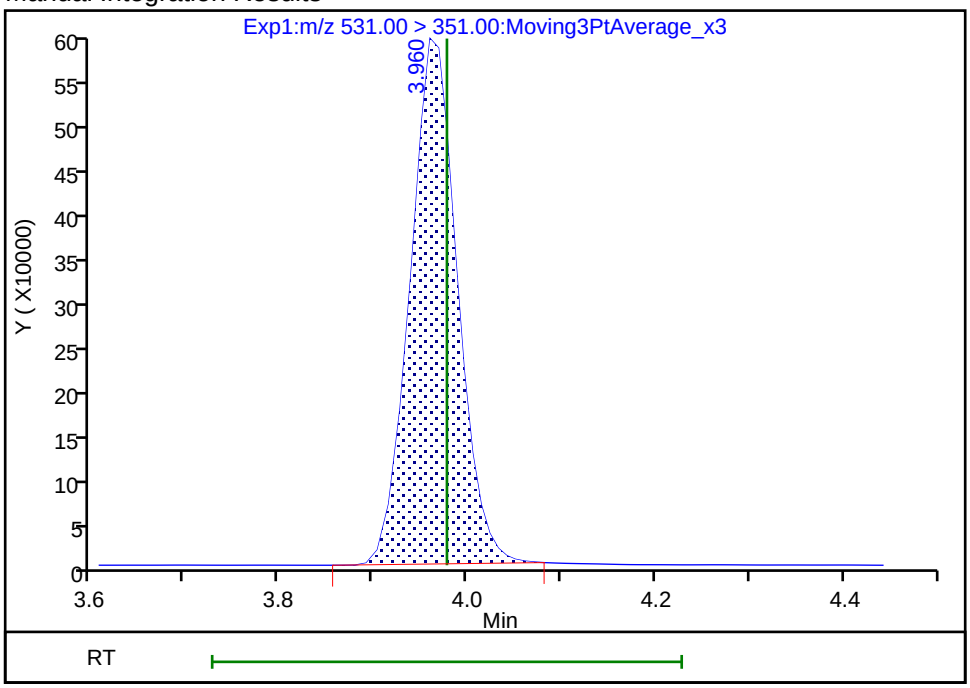
Processing Integration Results

RT: 3.96
Area: 2087406
Amount: 1.049503
Amount Units: ng/ml



Manual Integration Results

RT: 3.96
Area: 2062592
Amount: 1.037027
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:23:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

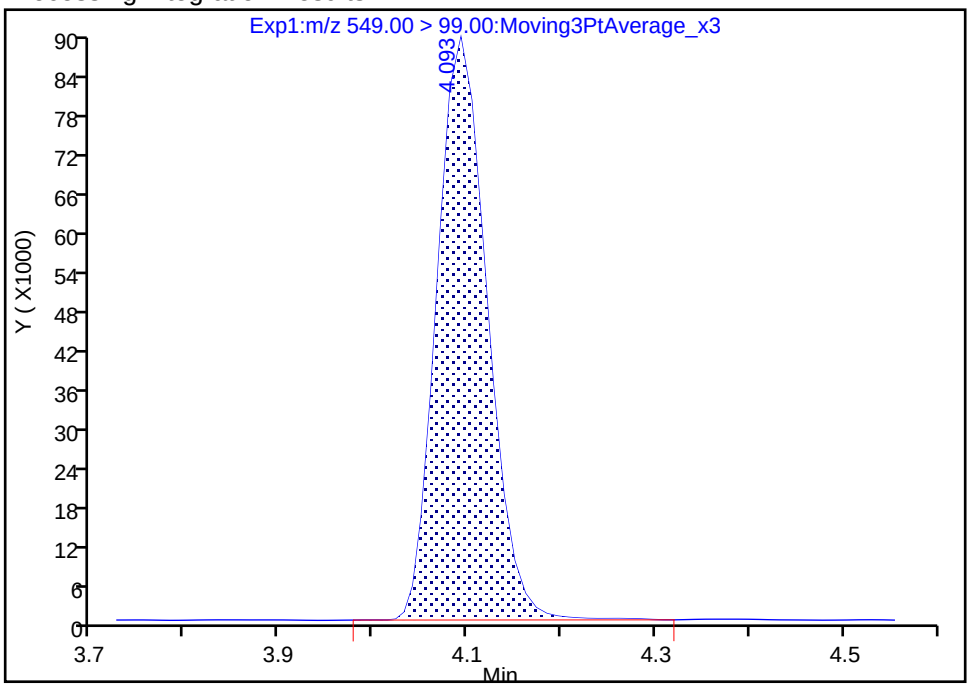
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

68 Perfluorononanesulfonic acid, CAS: 68259-12-1

Signal: 2

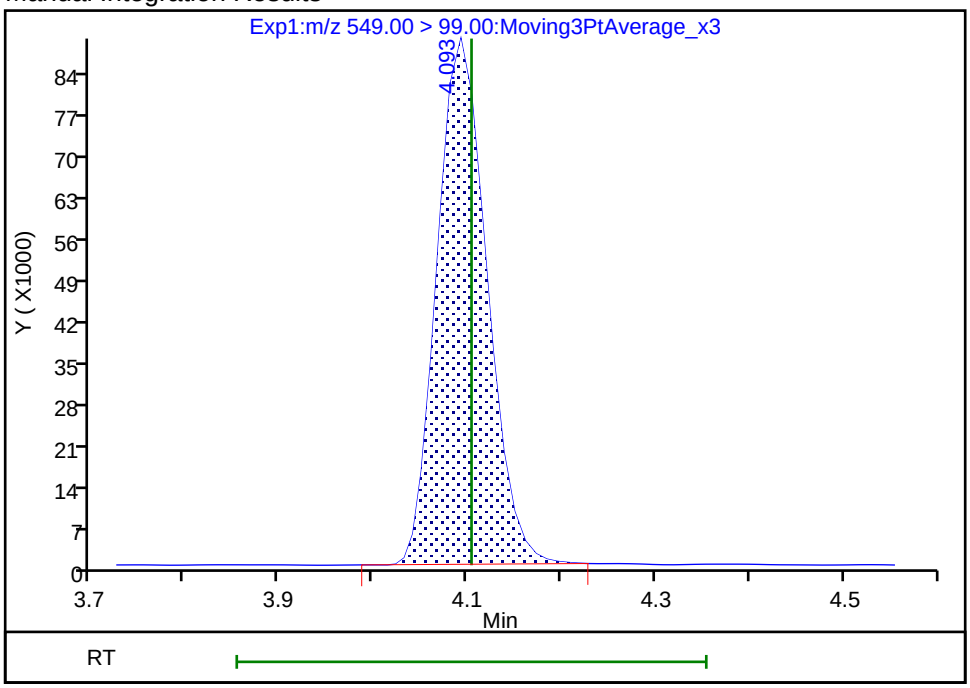
Processing Integration Results

RT: 4.09
Area: 333828
Amount: 0.936794
Amount Units: ng/ml



Manual Integration Results

RT: 4.09
Area: 331361
Amount: 0.936794
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:23:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

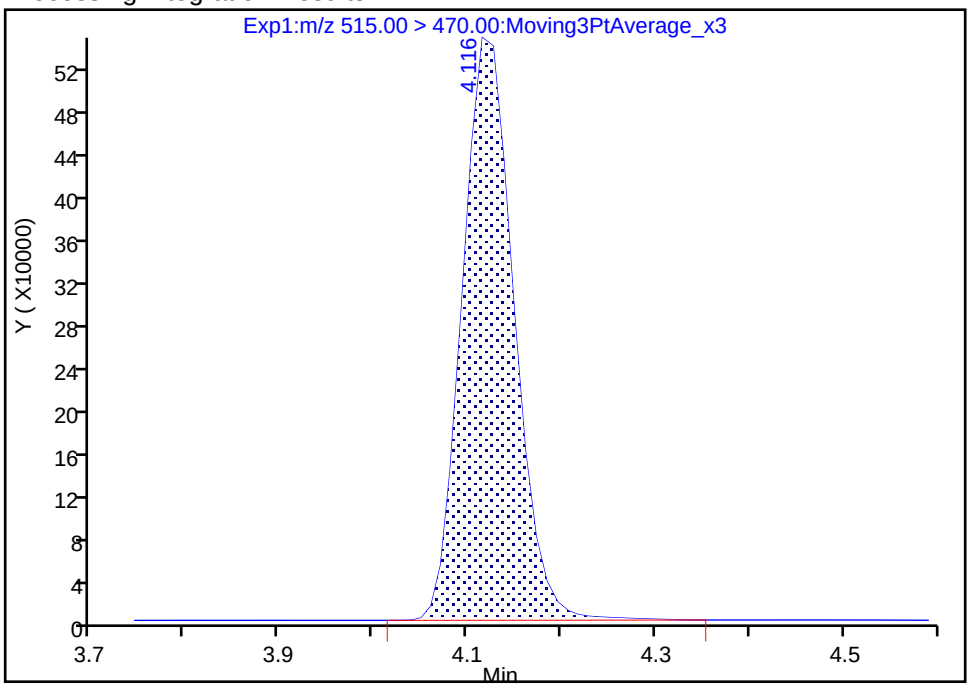
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

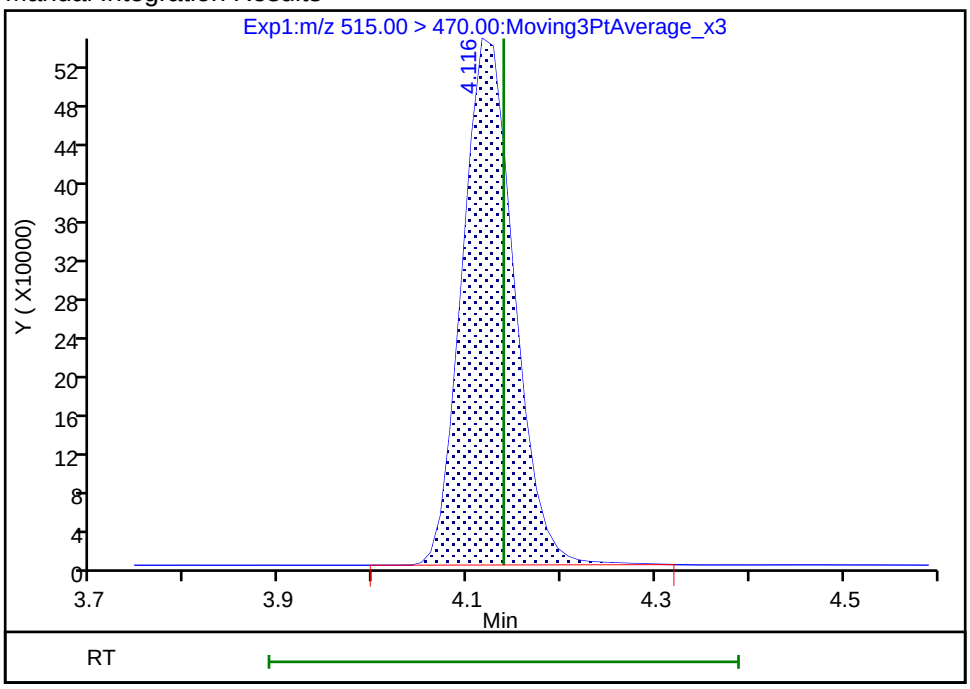
Processing Integration Results

RT: 4.12
Area: 2093337
Amount: 1.181251
Amount Units: ng/ml



Manual Integration Results

RT: 4.12
Area: 2089420
Amount: 1.179041
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:23:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

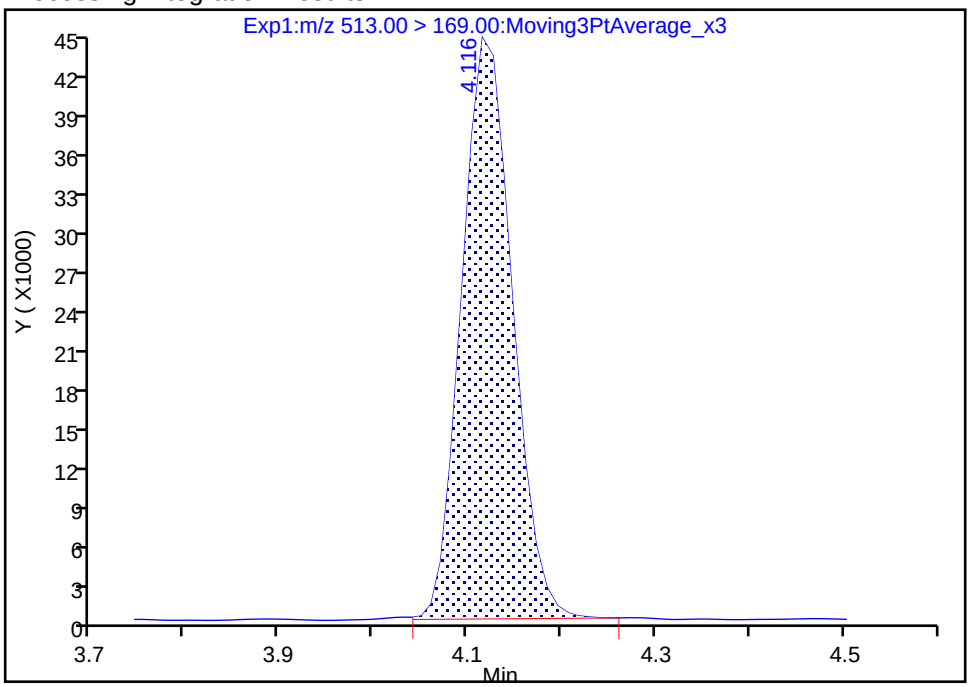
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

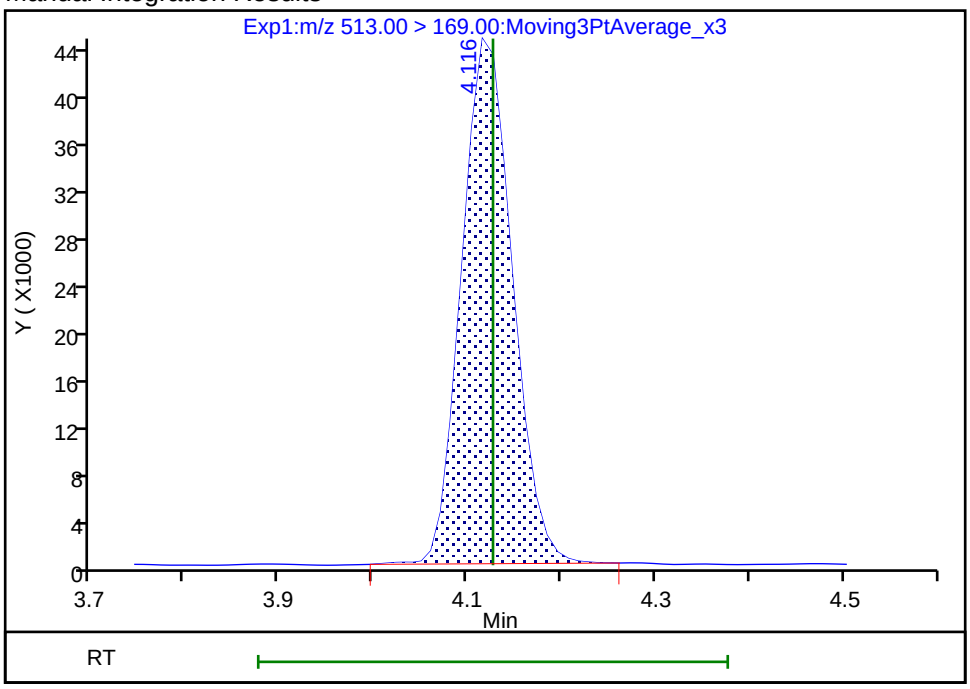
Processing Integration Results

RT: 4.12
Area: 167630
Amount: 0.869398
Amount Units: ng/ml



Manual Integration Results

RT: 4.12
Area: 167732
Amount: 0.871028
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:23:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

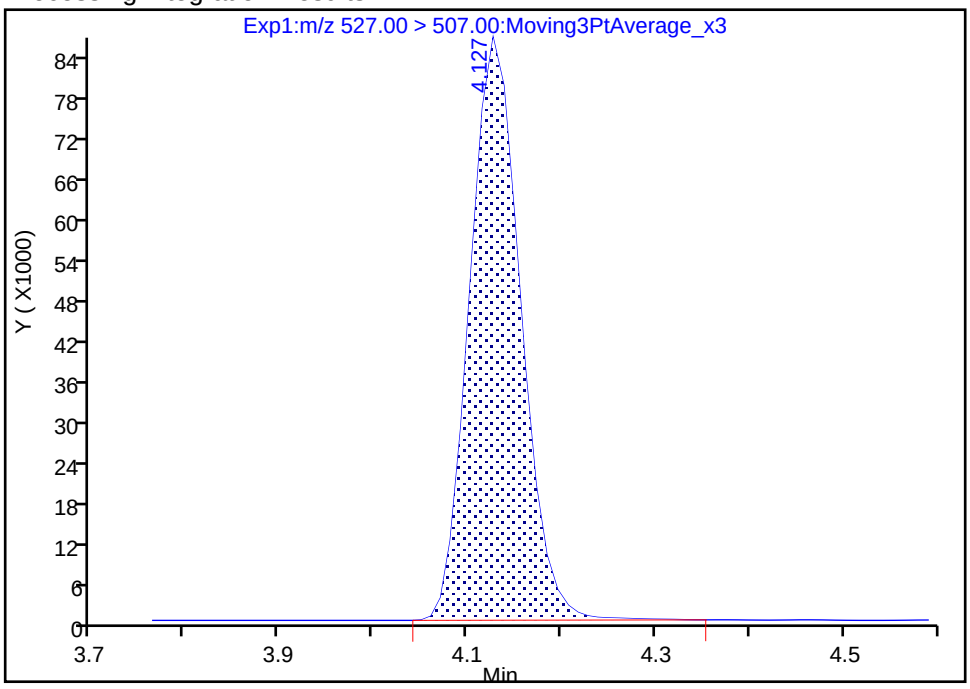
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

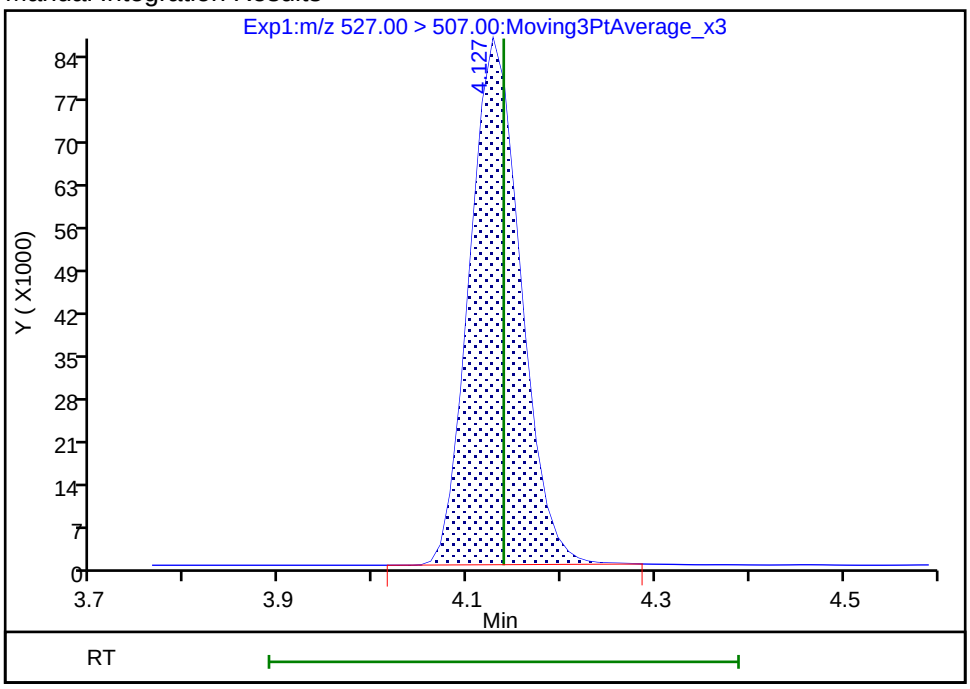
Processing Integration Results

RT: 4.13
Area: 327087
Amount: 0.970230
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 325596
Amount: 0.965807
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:23:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

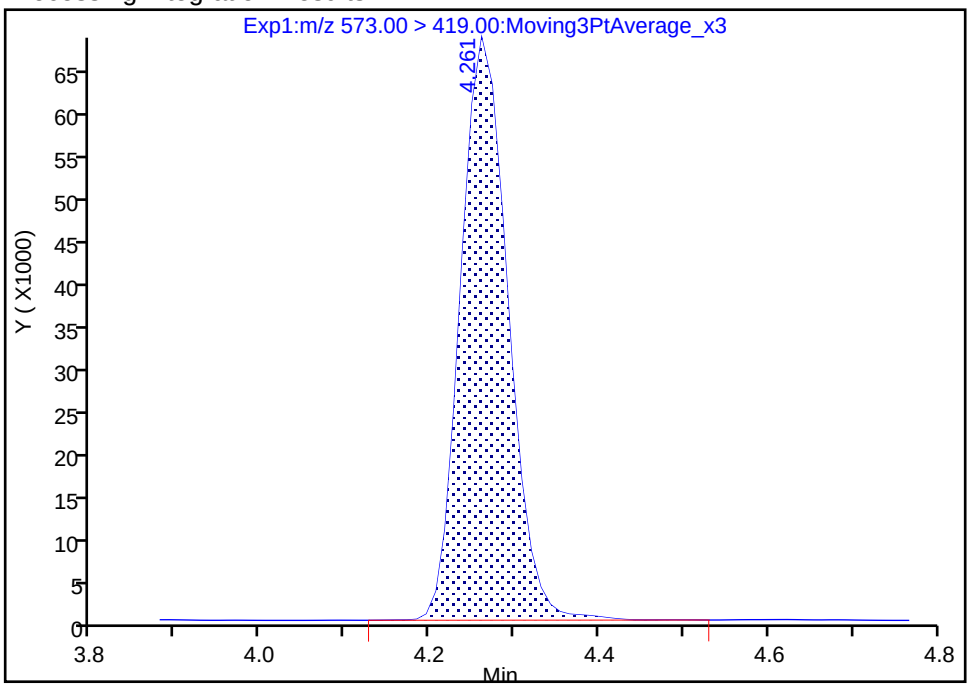
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

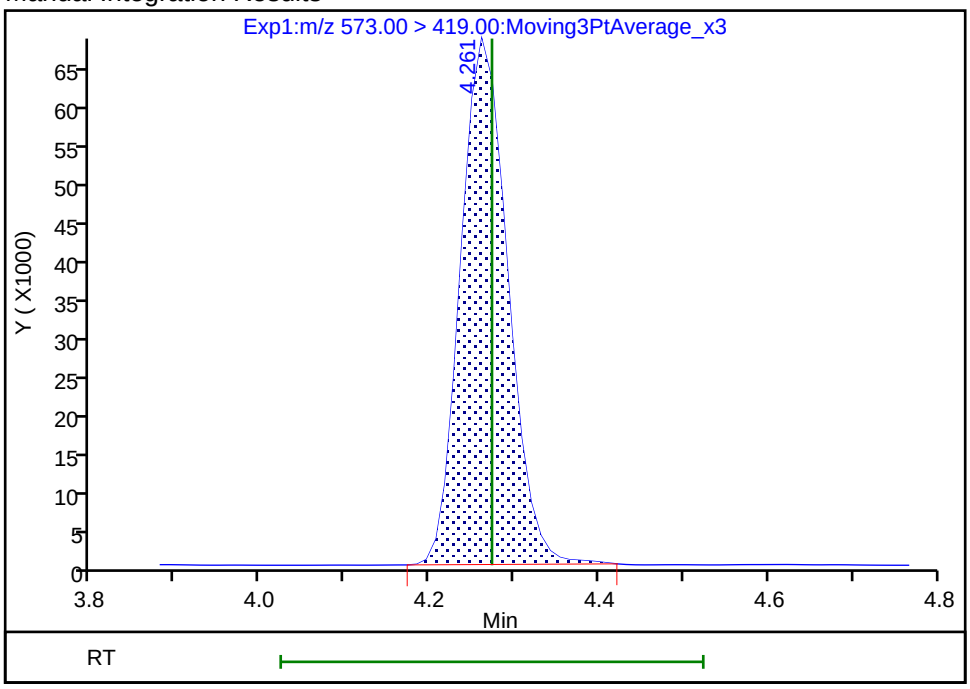
Processing Integration Results

RT: 4.26
Area: 267691
Amount: 1.138026
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 266142
Amount: 1.131441
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:24:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

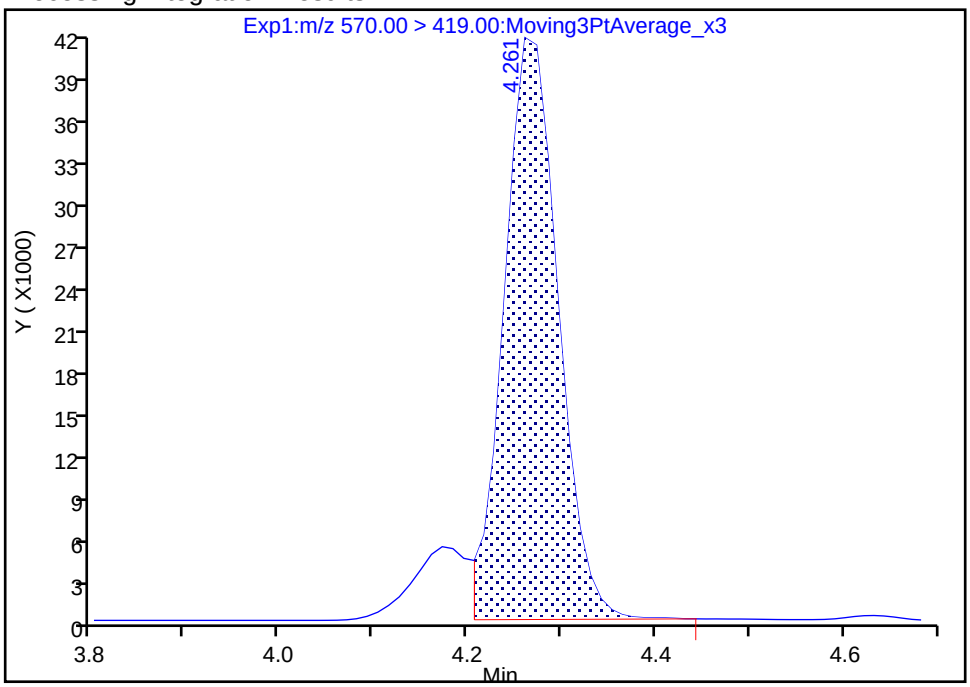
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

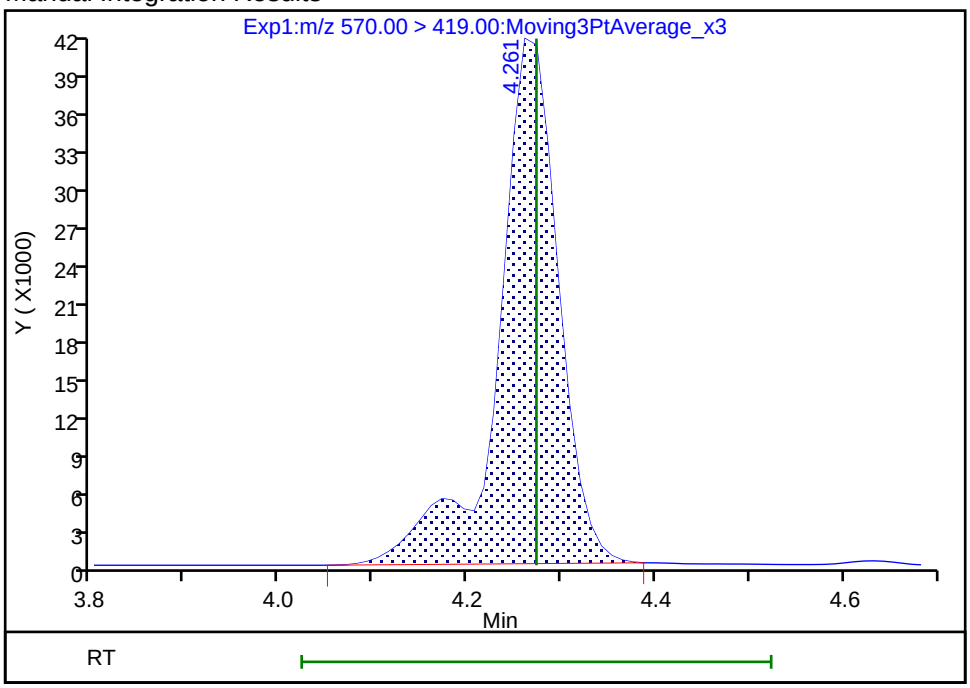
Processing Integration Results

RT: 4.26
Area: 164423
Amount: 0.849171
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 184475
Amount: 0.952731
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:24:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

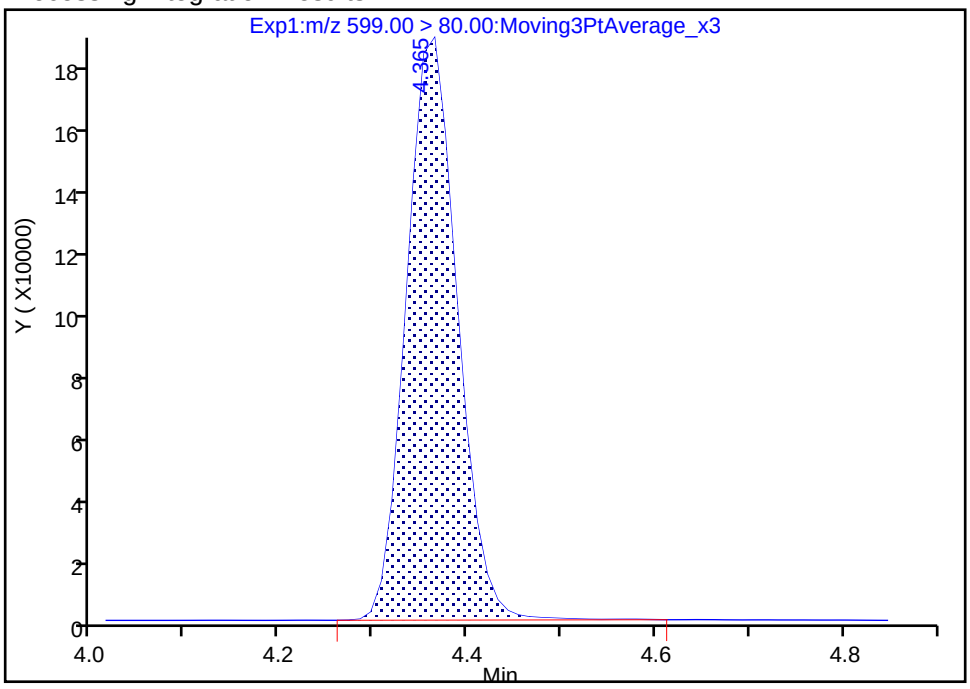
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

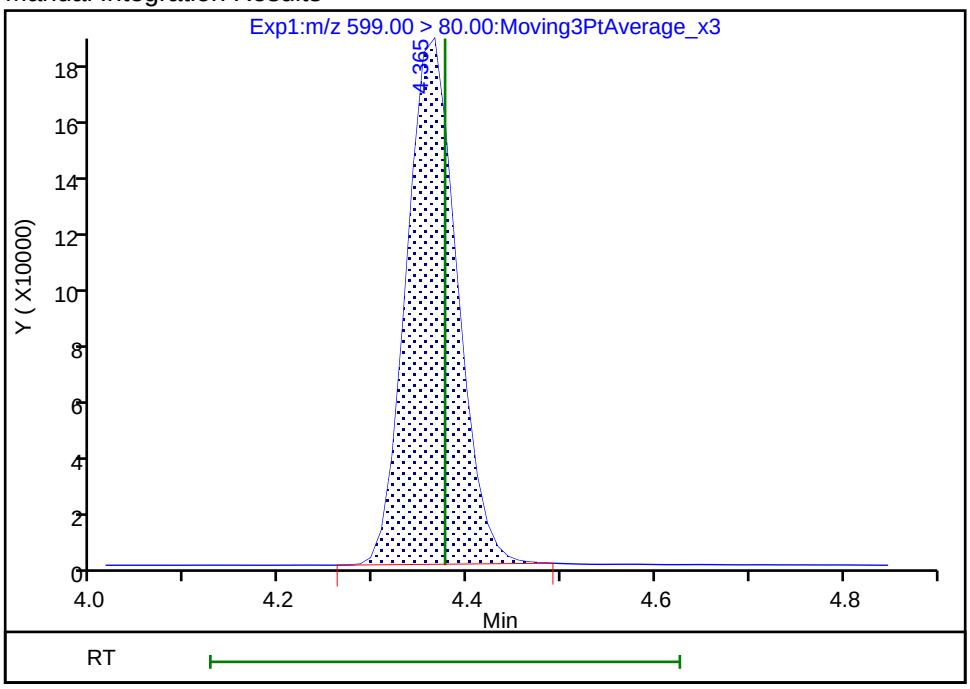
Processing Integration Results

RT: 4.36
Area: 703658
Amount: 1.012253
Amount Units: ng/ml



Manual Integration Results

RT: 4.36
Area: 698231
Amount: 1.004446
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:24:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

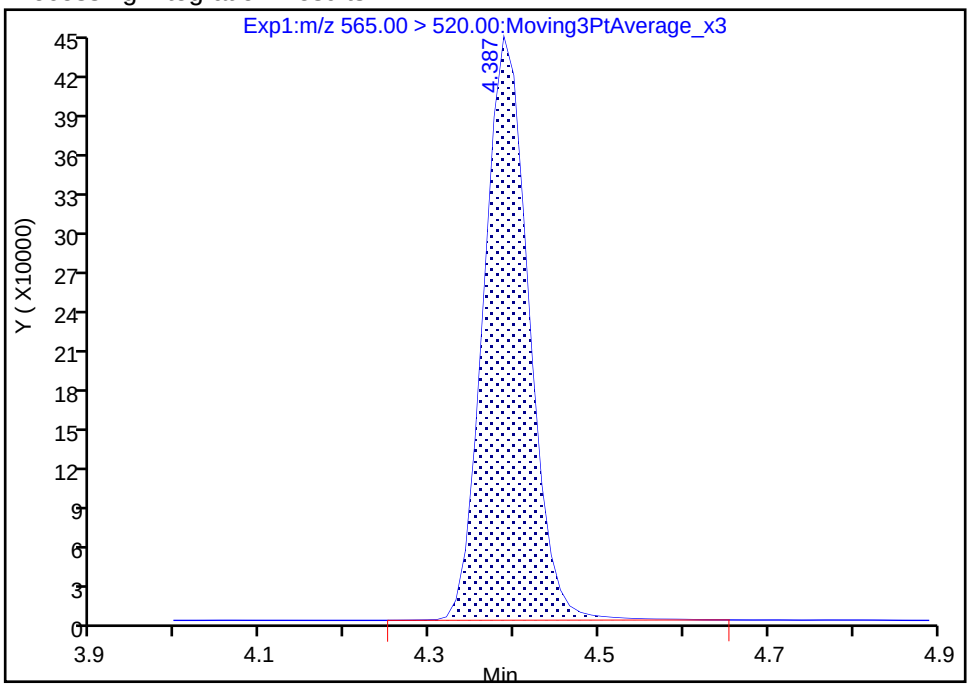
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

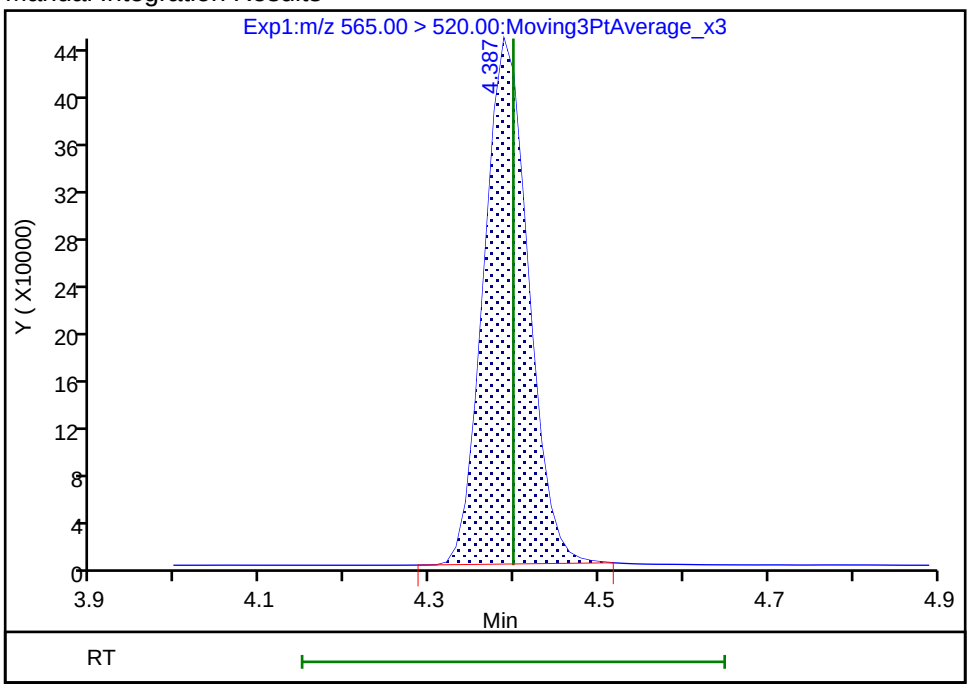
Processing Integration Results

RT: 4.39
Area: 1652556
Amount: 1.161455
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 1634145
Amount: 1.148515
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:24:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

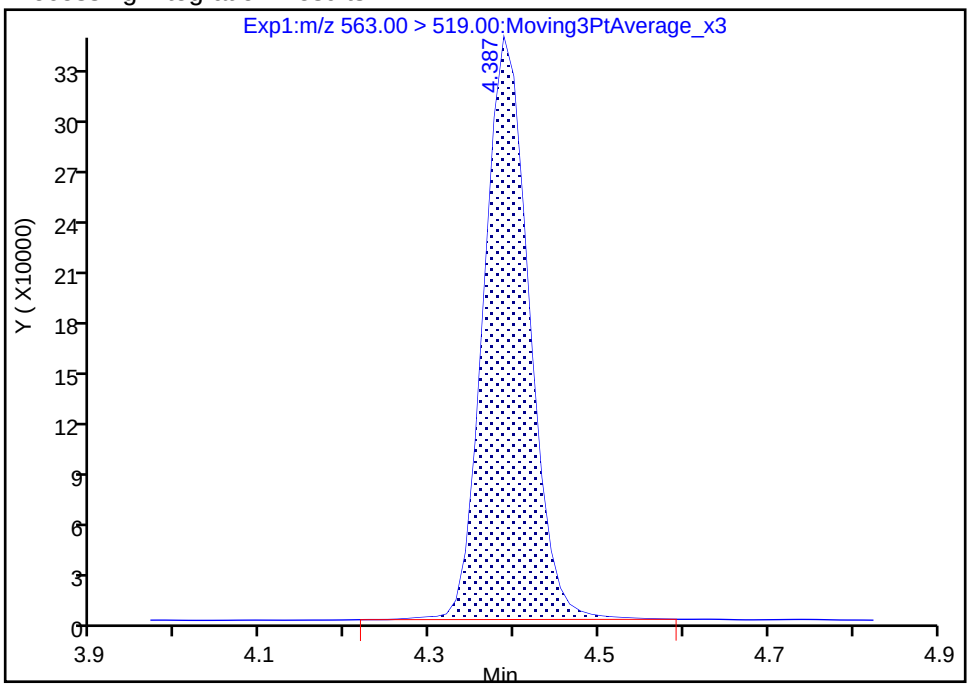
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

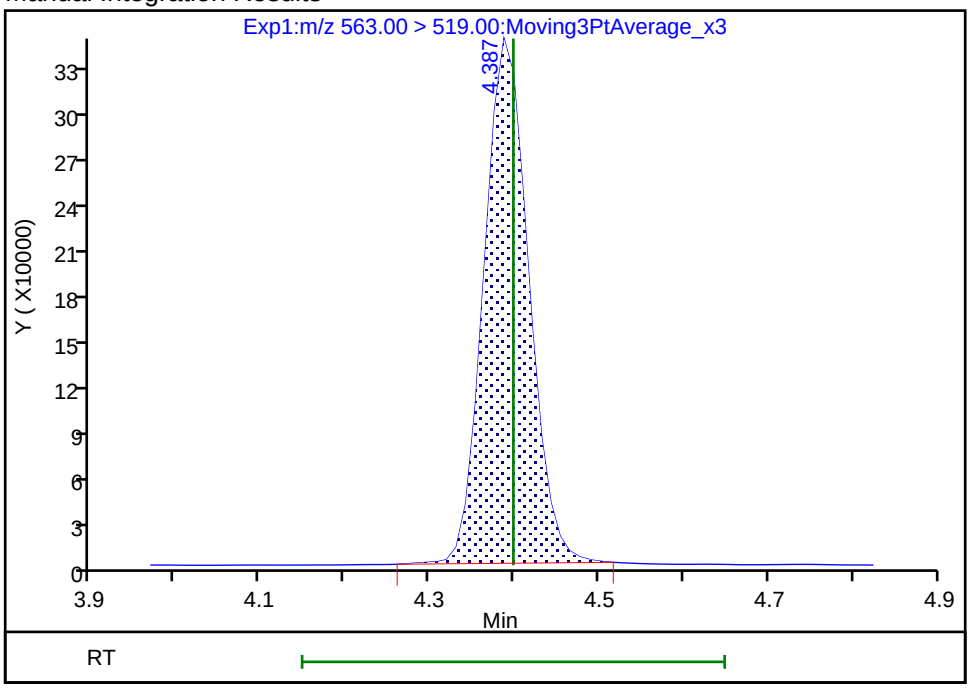
Processing Integration Results

RT: 4.39
Area: 1282053
Amount: 0.940981
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 1267891
Amount: 0.941071
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:24:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

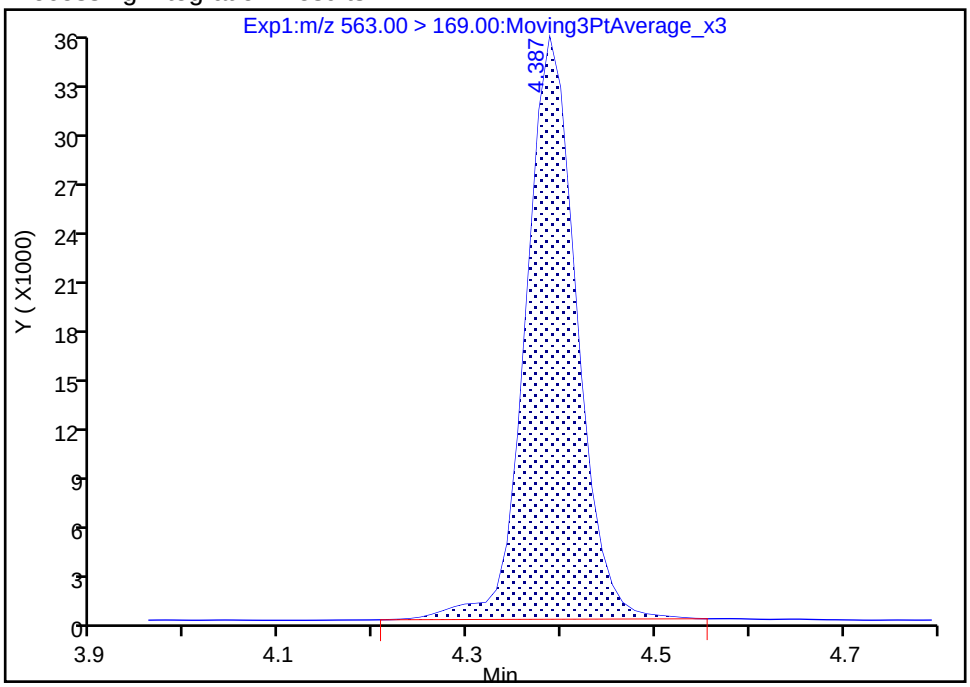
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

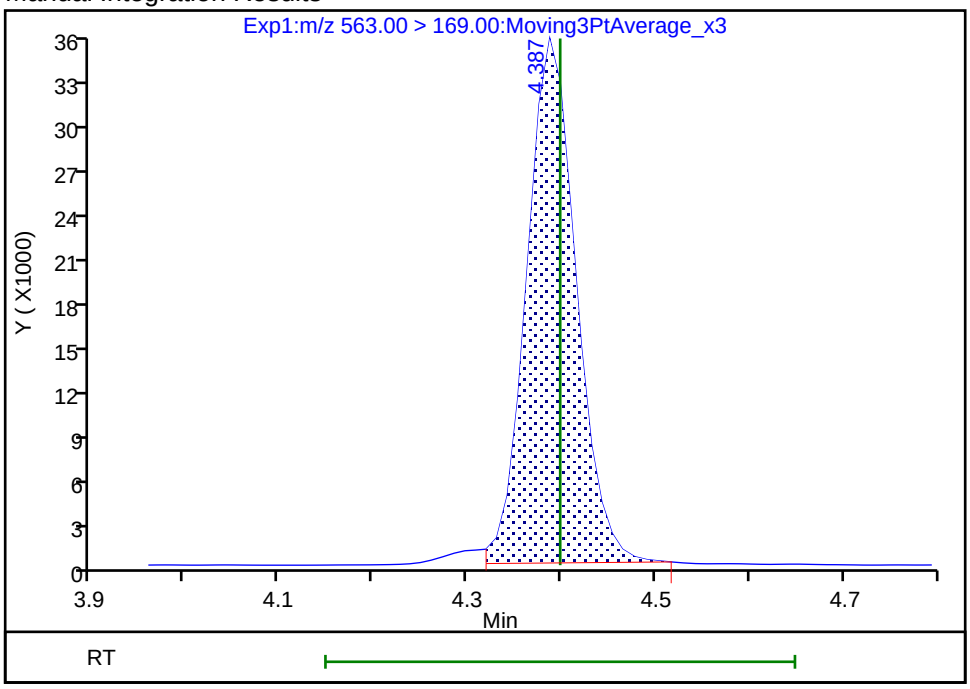
Processing Integration Results

RT: 4.39
Area: 134718
Amount: 0.940981
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 130511
Amount: 0.941071
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:24:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

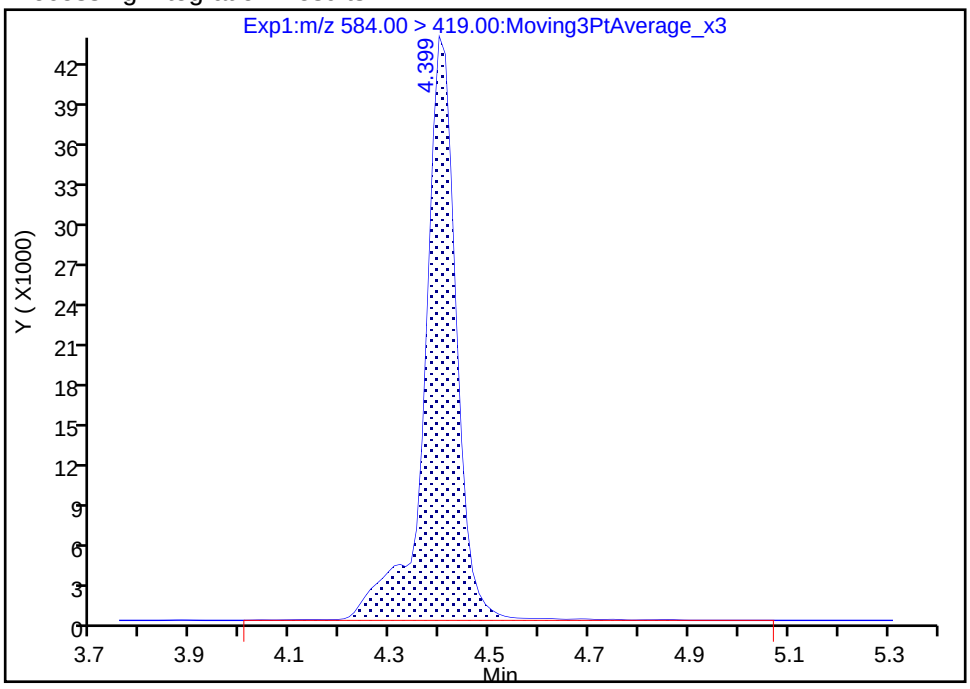
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

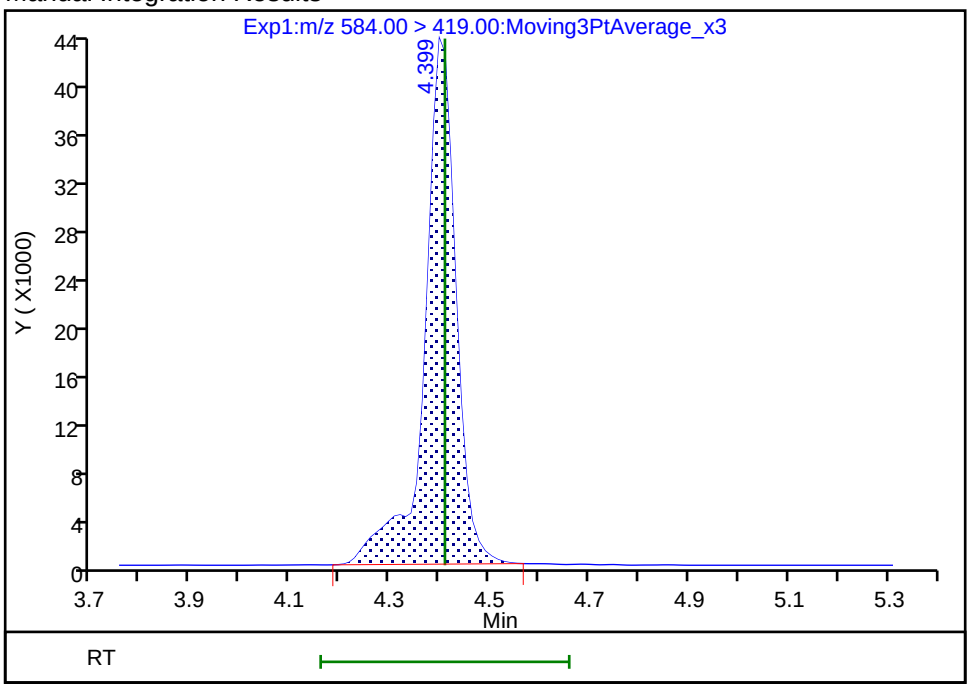
Processing Integration Results

RT: 4.40
Area: 191913
Amount: 1.014891
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 188646
Amount: 0.997614
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:24:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

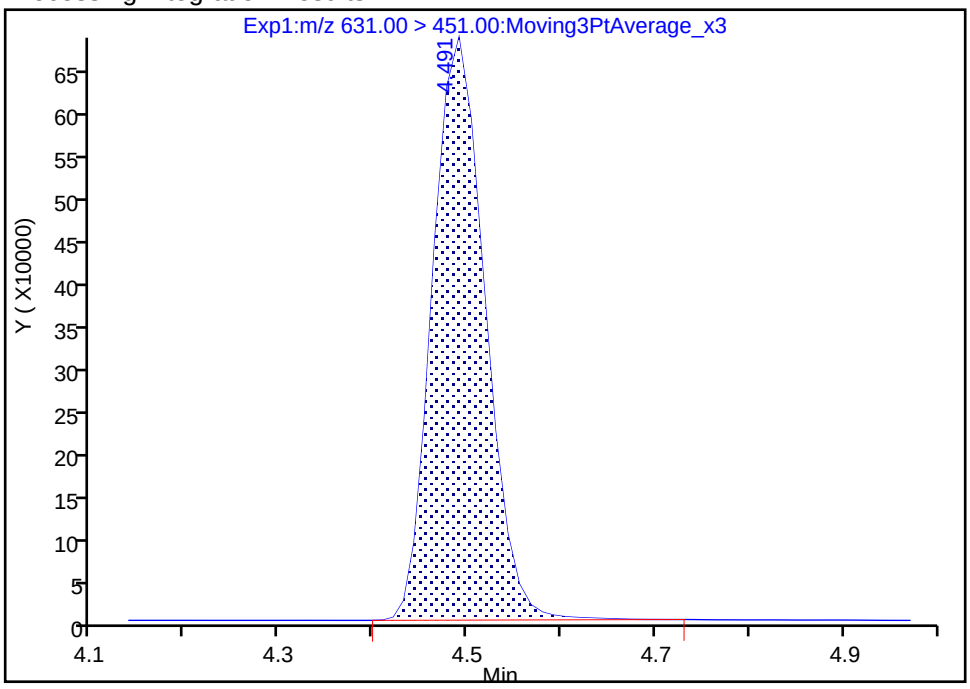
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

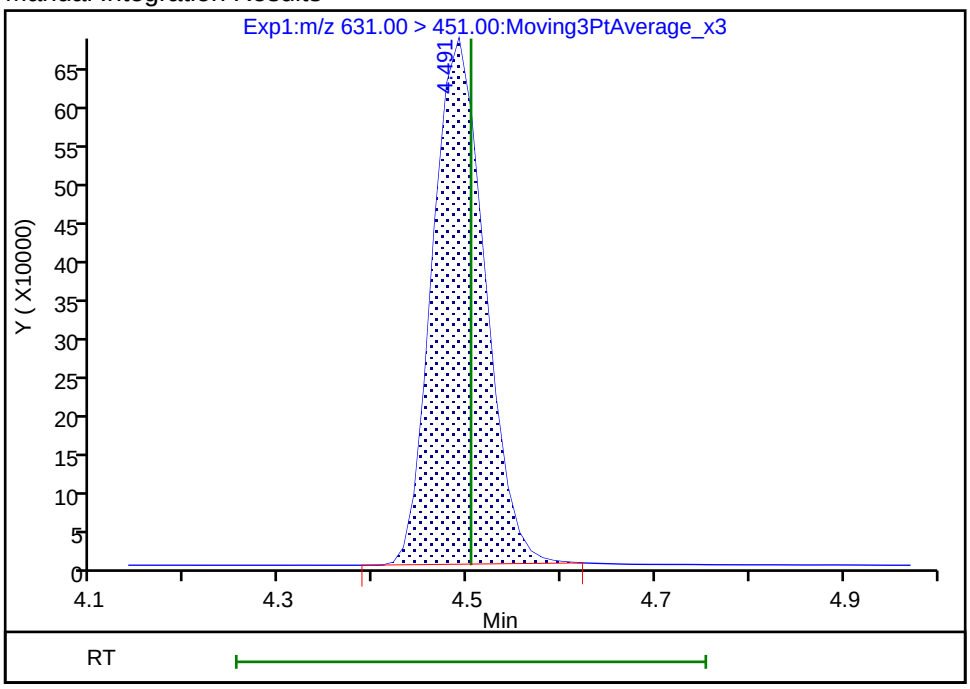
Processing Integration Results

RT: 4.49
Area: 2643626
Amount: 0.960774
Amount Units: ng/ml



Manual Integration Results

RT: 4.49
Area: 2622193
Amount: 0.952985
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:24:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

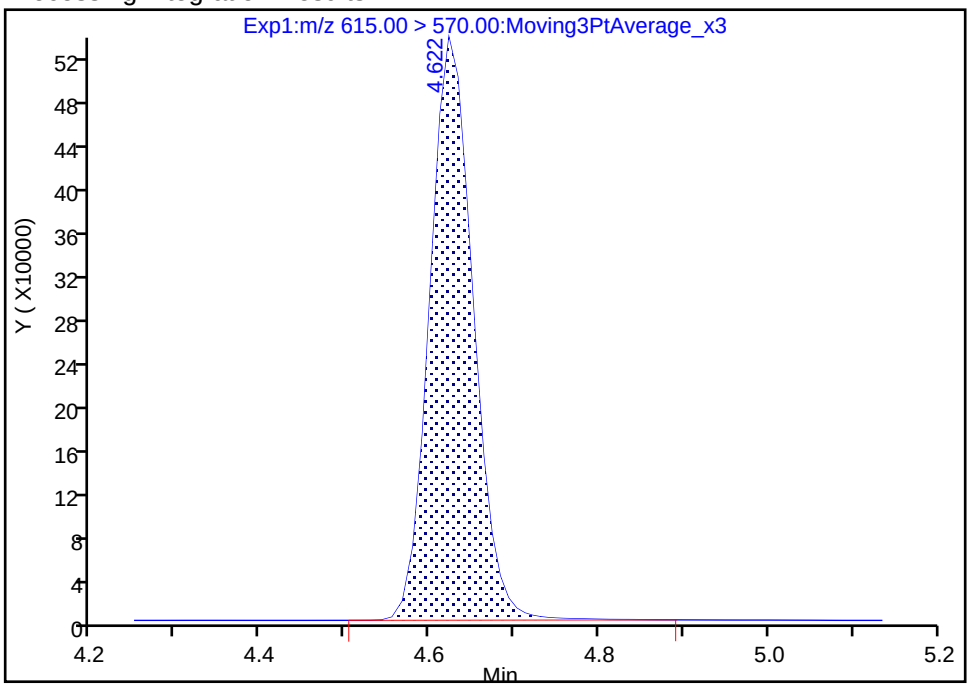
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d				
Injection Date:	05-May-2022 16:10:49	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 36 13C2 PFDoA, CAS: STL00998

Signal: 1

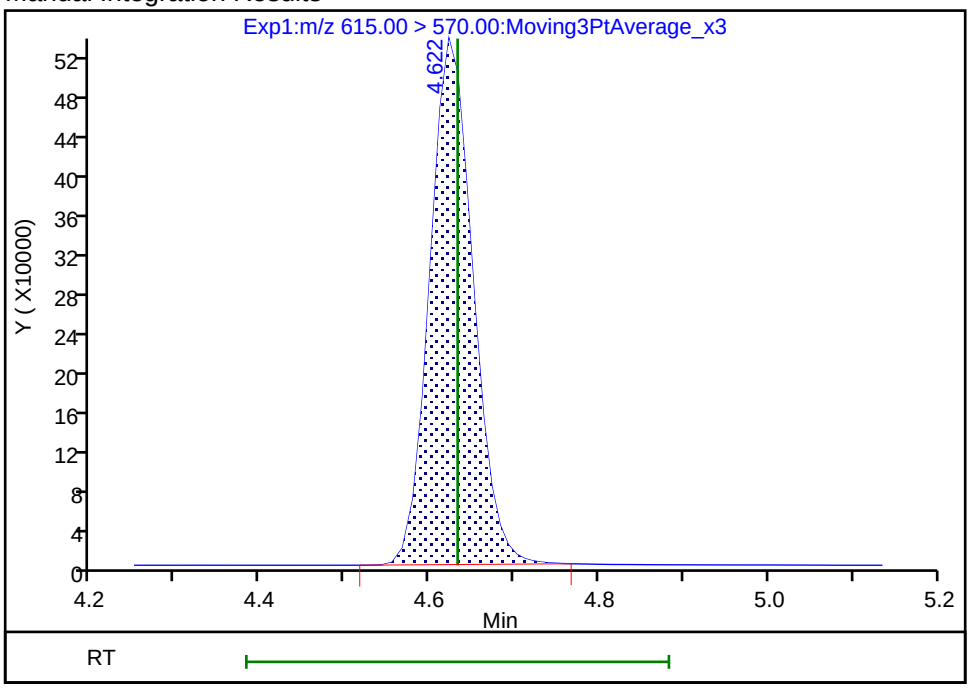
Processing Integration Results

RT: 4.62
Area: 1896535
Amount: 1.248110
Amount Units: ng/ml



Manual Integration Results

RT: 4.62
Area: 1884400
Amount: 1.240124
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:24:48

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

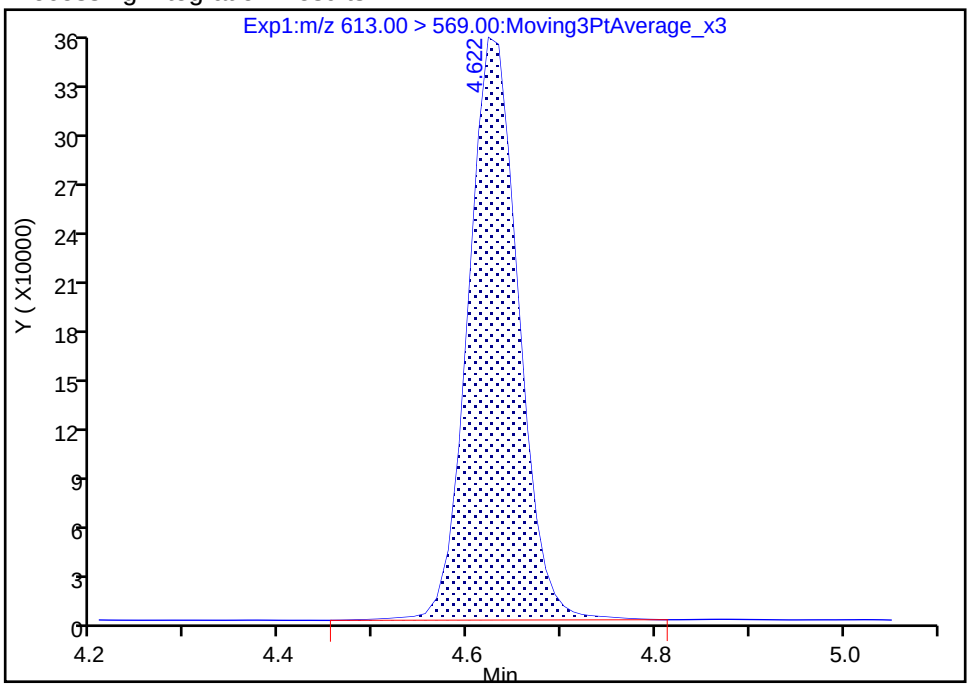
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d				
Injection Date:	05-May-2022 16:10:49	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

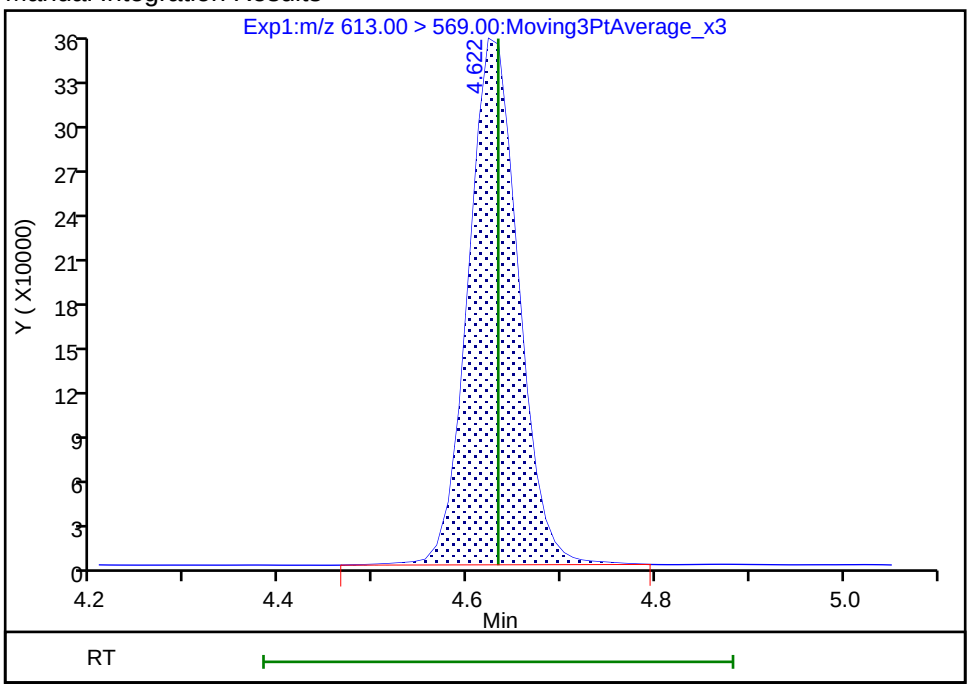
Processing Integration Results

RT: 4.62
Area: 1304900
Amount: 0.839272
Amount Units: ng/ml



Manual Integration Results

RT: 4.62
Area: 1302890
Amount: 0.837979
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:24:53

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

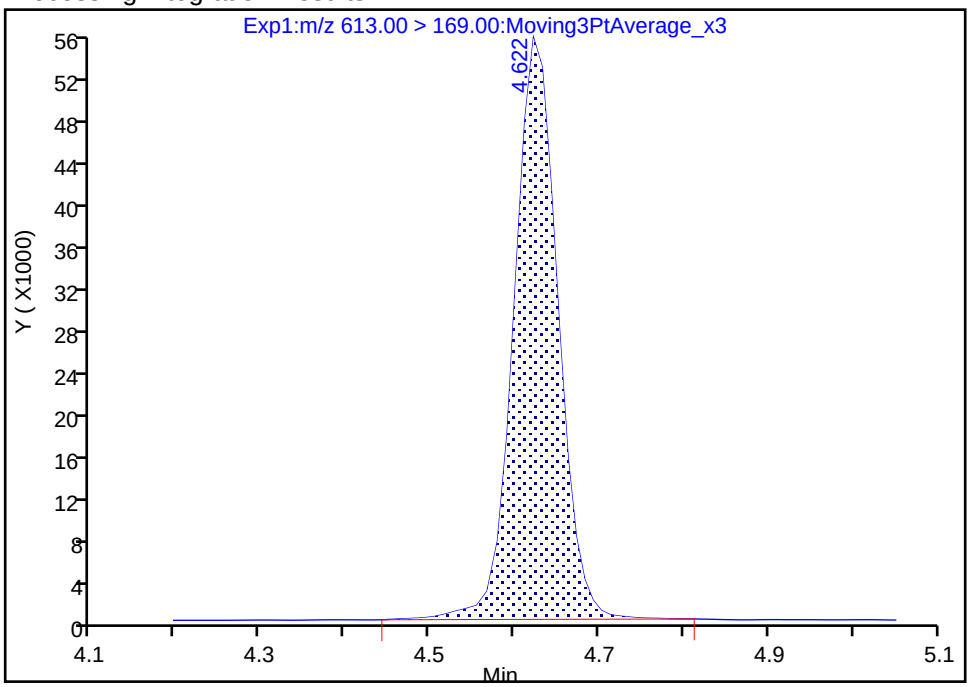
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

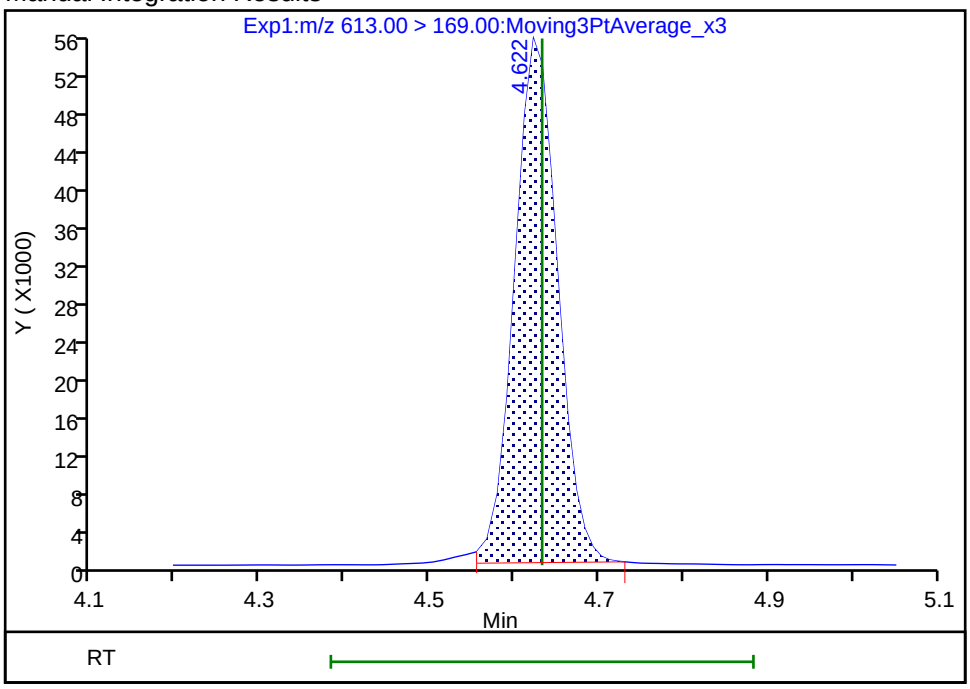
Processing Integration Results

RT: 4.62
Area: 200390
Amount: 0.839272
Amount Units: ng/ml



Manual Integration Results

RT: 4.62
Area: 195235
Amount: 0.837979
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:24:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

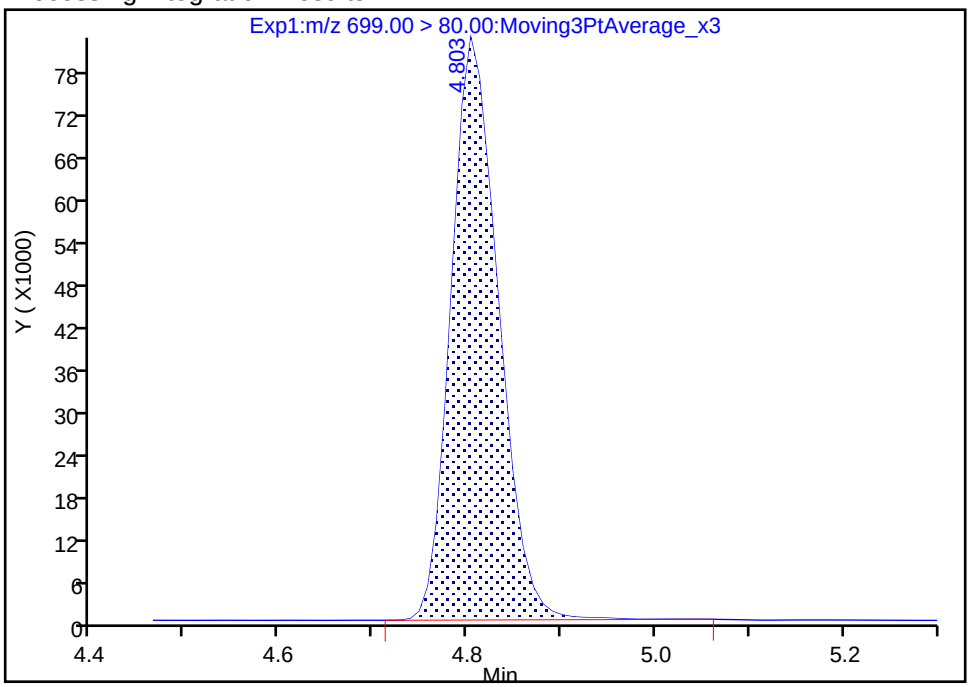
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

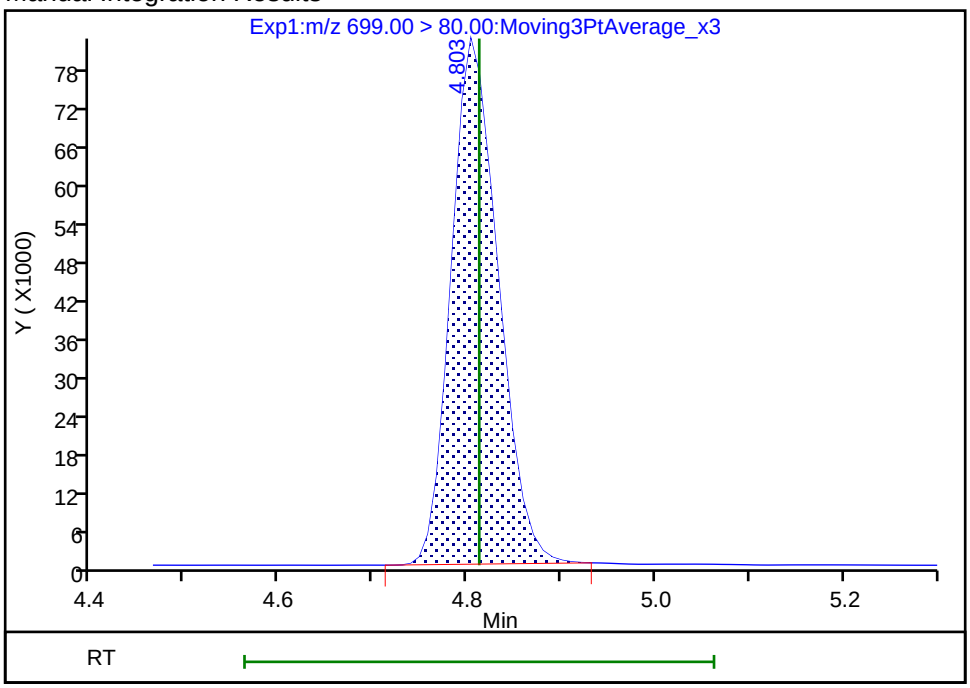
Processing Integration Results

RT: 4.80
Area: 287835
Amount: 0.911202
Amount Units: ng/ml



Manual Integration Results

RT: 4.80
Area: 285421
Amount: 0.903560
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:25:06
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

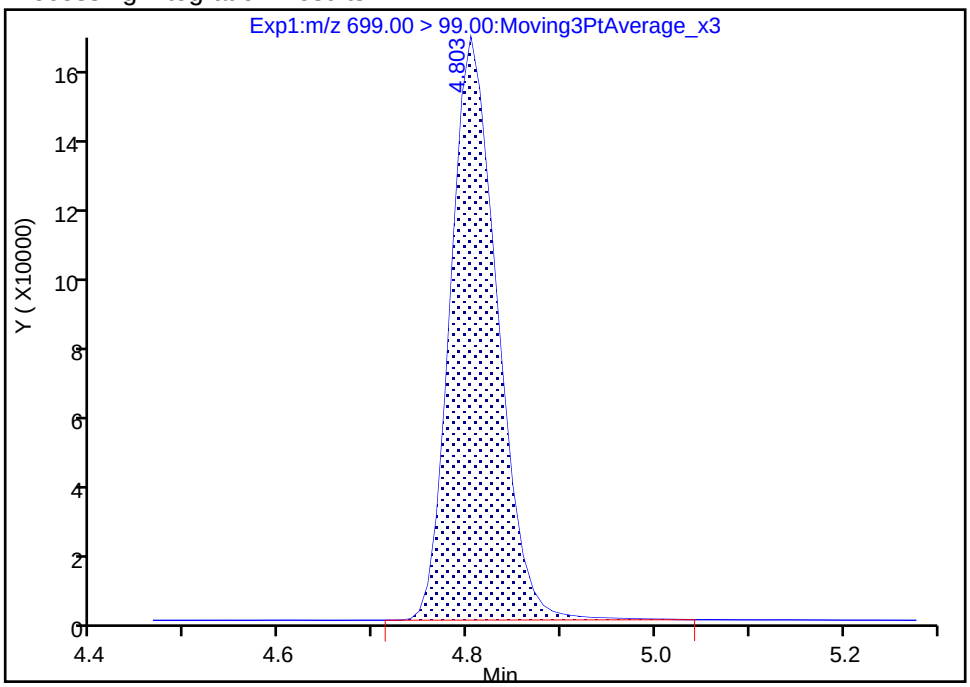
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d				
Injection Date:	05-May-2022 16:10:49	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

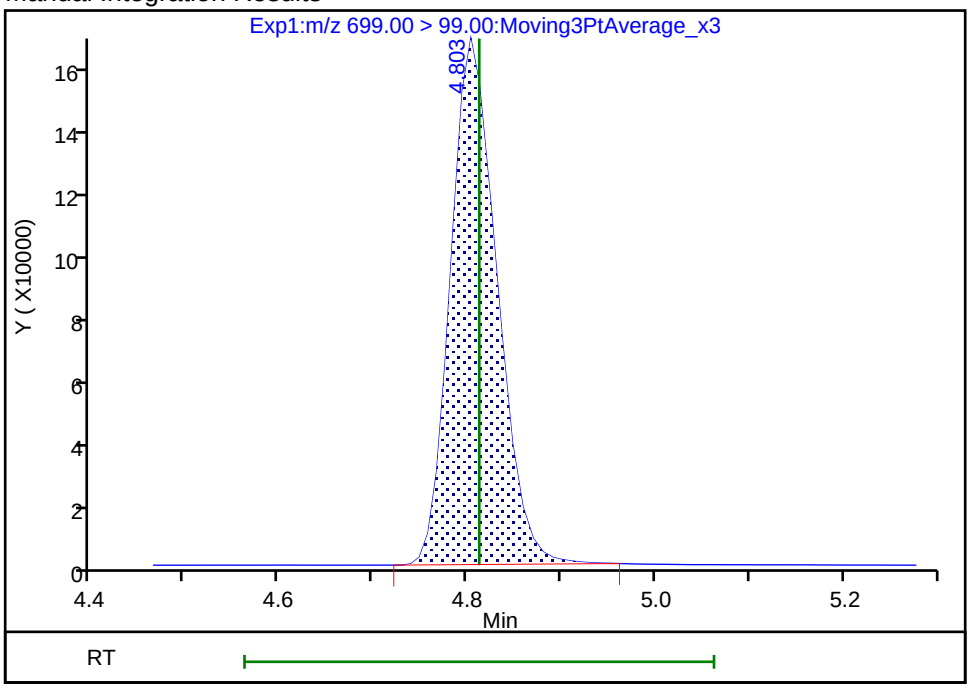
Processing Integration Results

RT: 4.80
Area: 556512
Amount: 0.911202
Amount Units: ng/ml



Manual Integration Results

RT: 4.80
Area: 553090
Amount: 0.903560
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:25:09

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

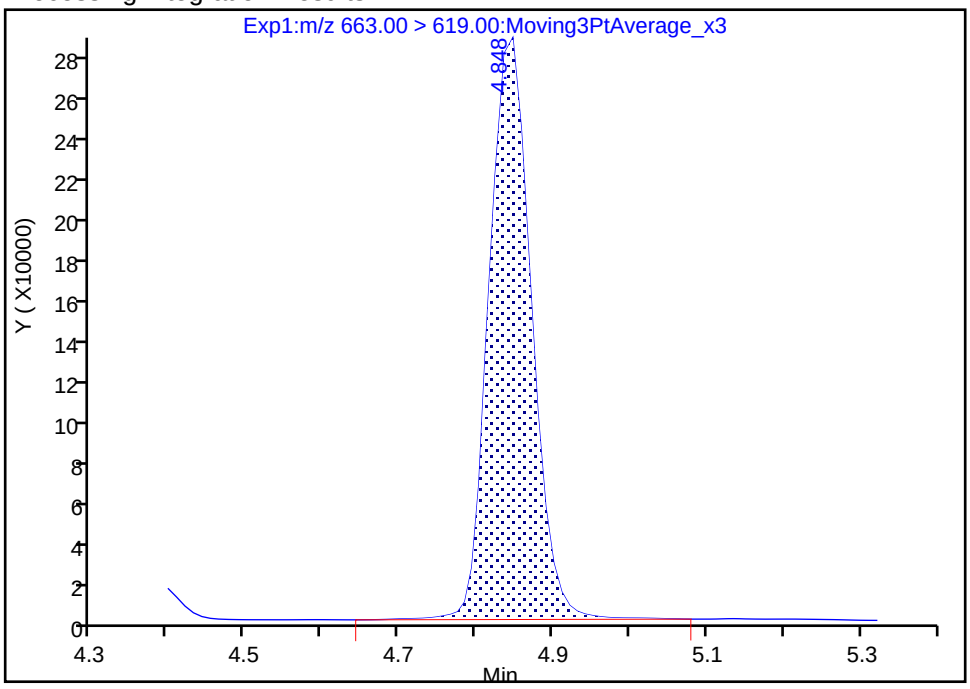
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

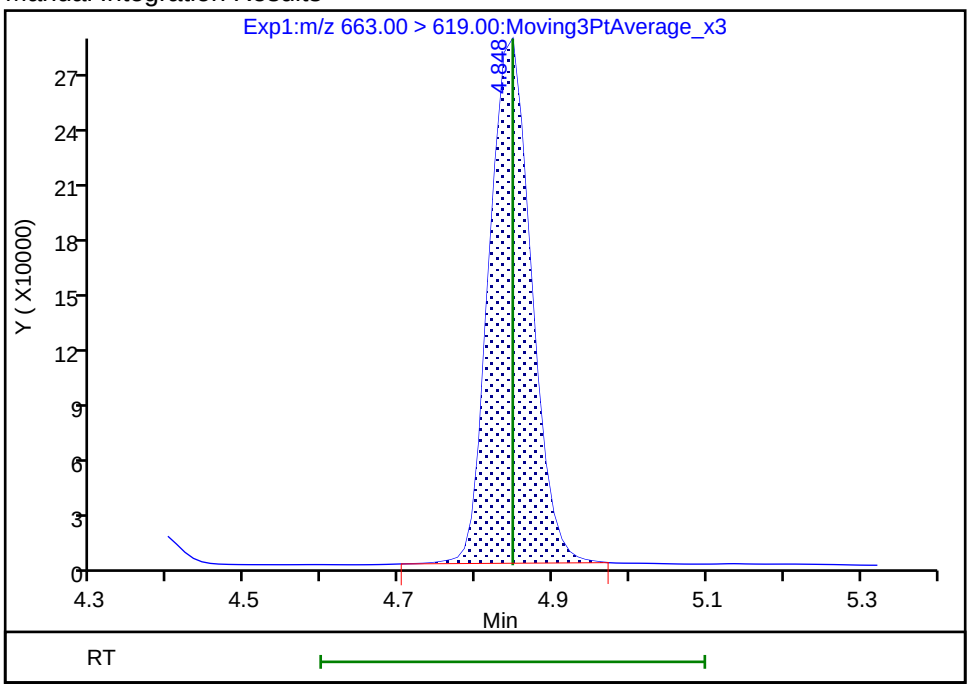
Processing Integration Results

RT: 4.85
Area: 1088351
Amount: 0.821881
Amount Units: ng/ml



Manual Integration Results

RT: 4.85
Area: 1074951
Amount: 0.811761
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:25:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

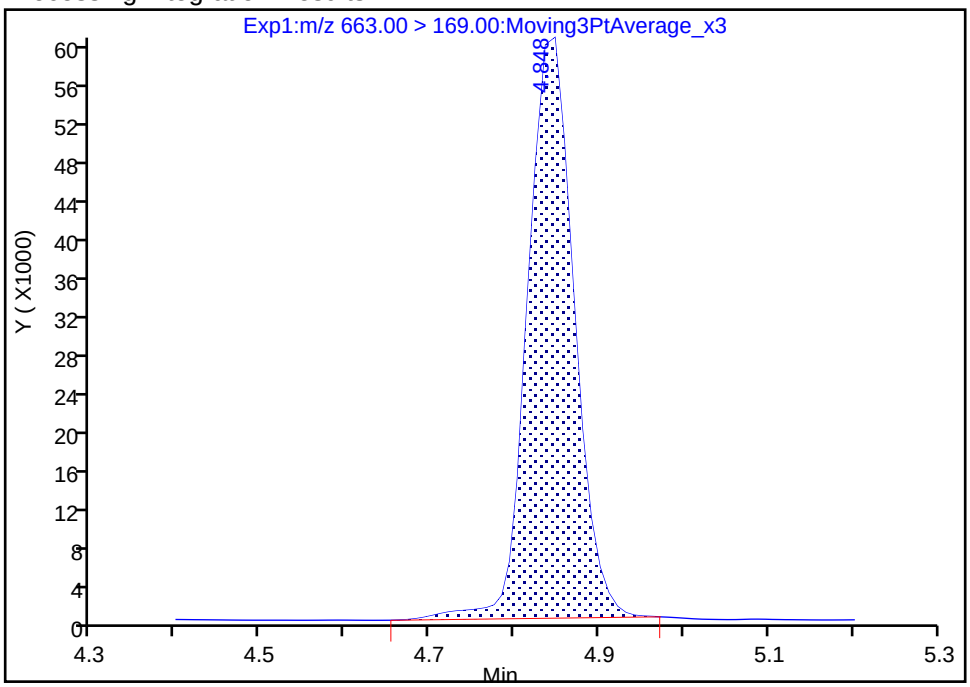
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d				
Injection Date:	05-May-2022 16:10:49	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

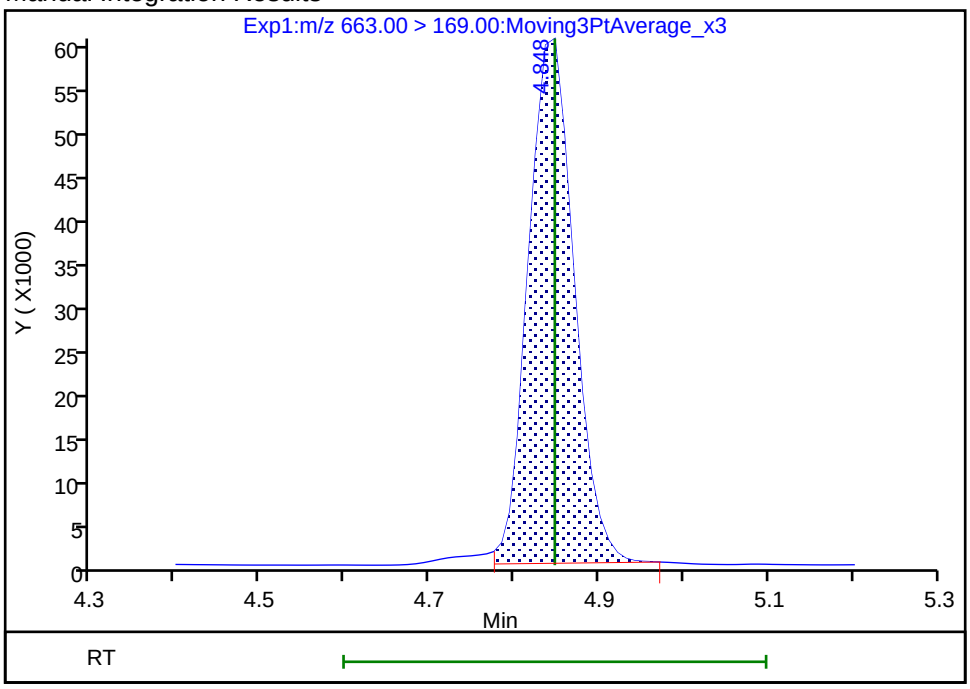
Processing Integration Results

RT: 4.85
Area: 230578
Amount: 0.821881
Amount Units: ng/ml



Manual Integration Results

RT: 4.85
Area: 226184
Amount: 0.811761
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:25:19

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

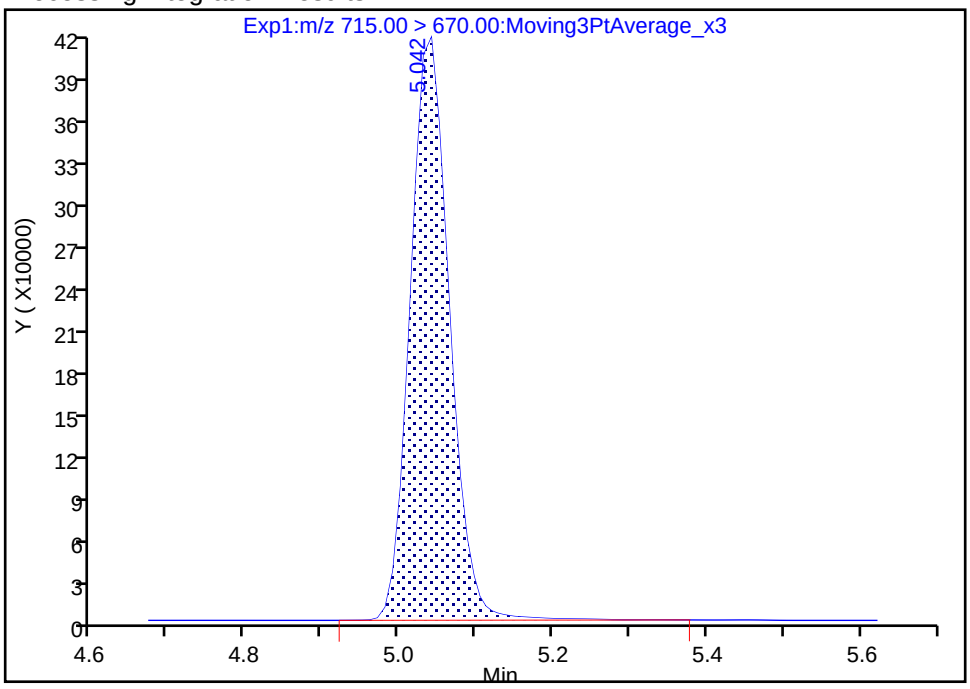
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d				
Injection Date:	05-May-2022 16:10:49	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

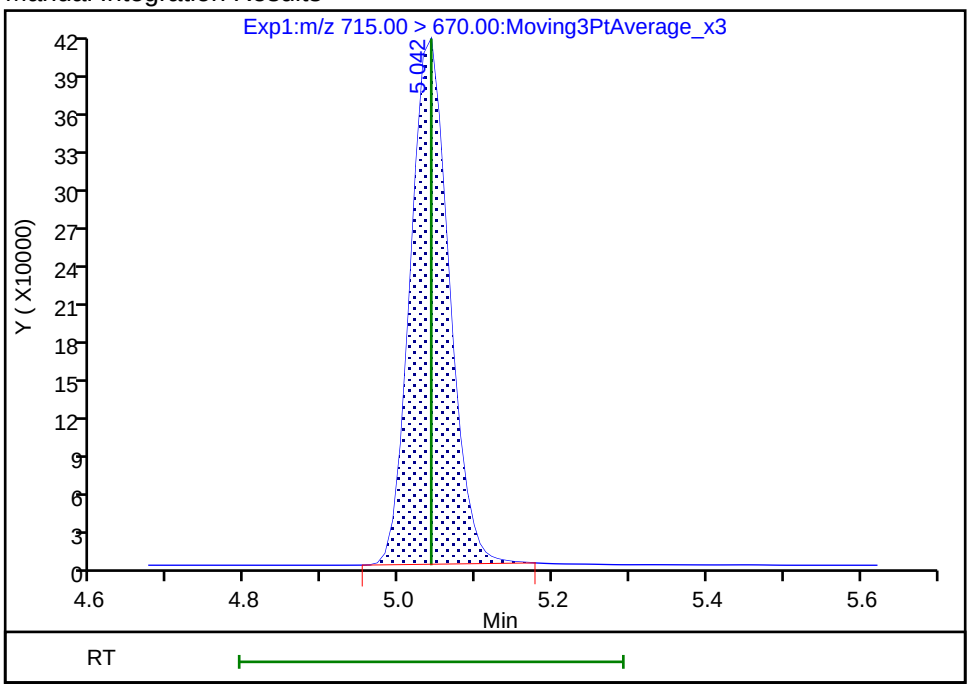
Processing Integration Results

RT: 5.04
Area: 1457137
Amount: 1.173310
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 1439870
Amount: 1.159406
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:25:34

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

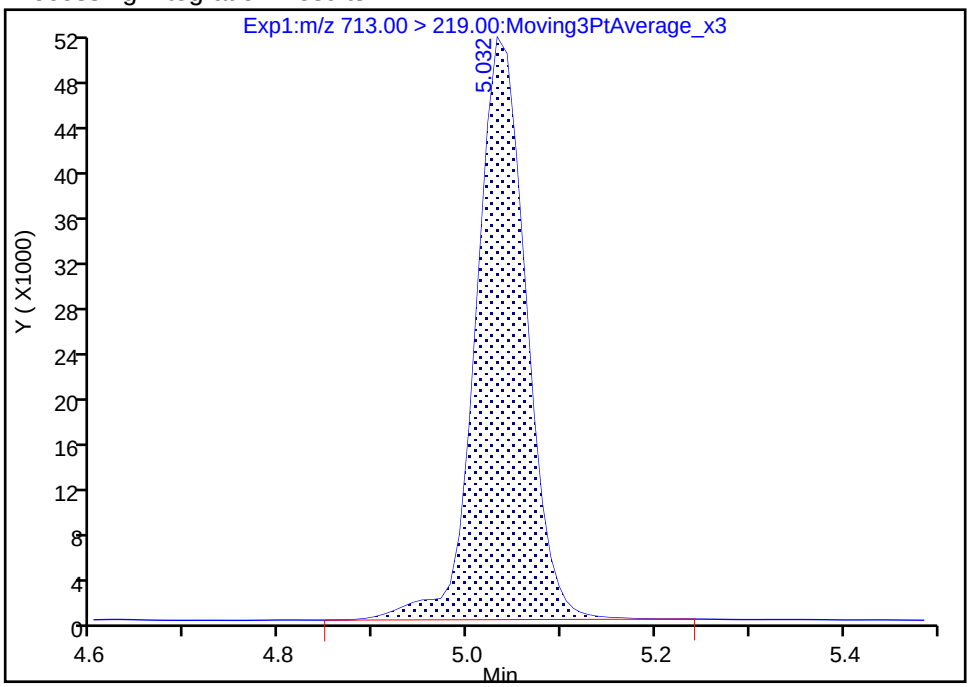
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

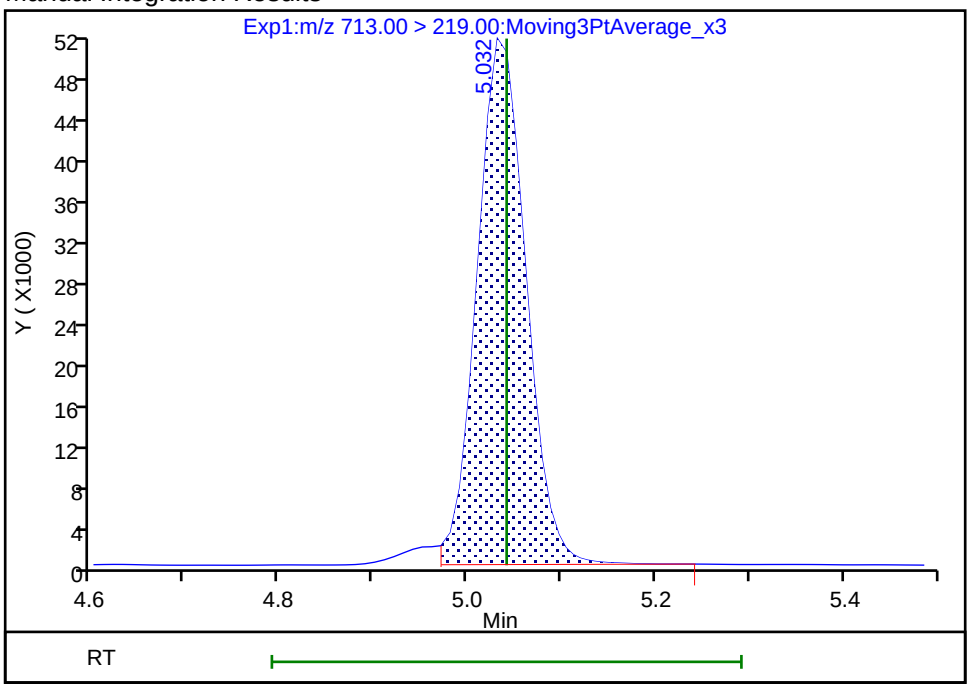
Processing Integration Results

RT: 5.03
Area: 190112
Amount: 0.974450
Amount Units: ng/ml



Manual Integration Results

RT: 5.03
Area: 184793
Amount: 0.986135
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:25:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

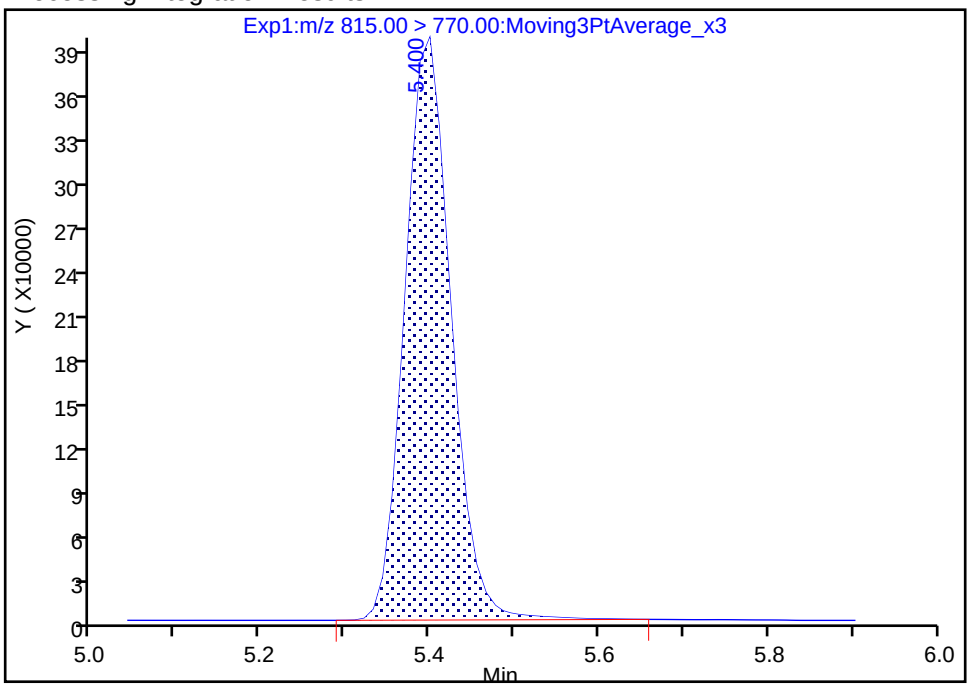
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

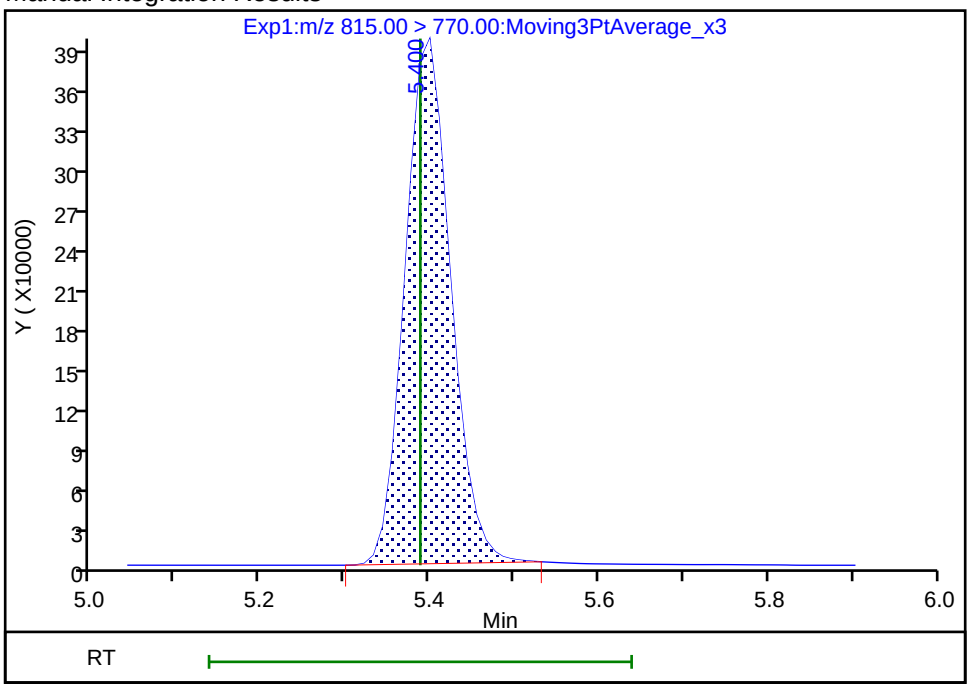
Processing Integration Results

RT: 5.40
Area: 1499701
Amount: 1.164982
Amount Units: ng/ml



Manual Integration Results

RT: 5.40
Area: 1479178
Amount: 1.149039
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:25:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

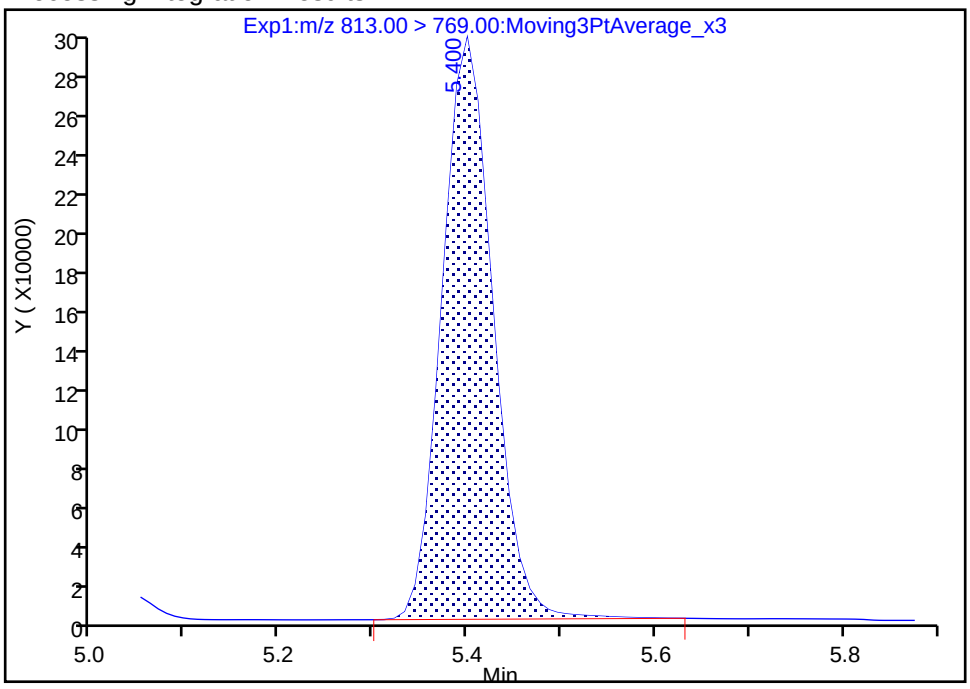
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

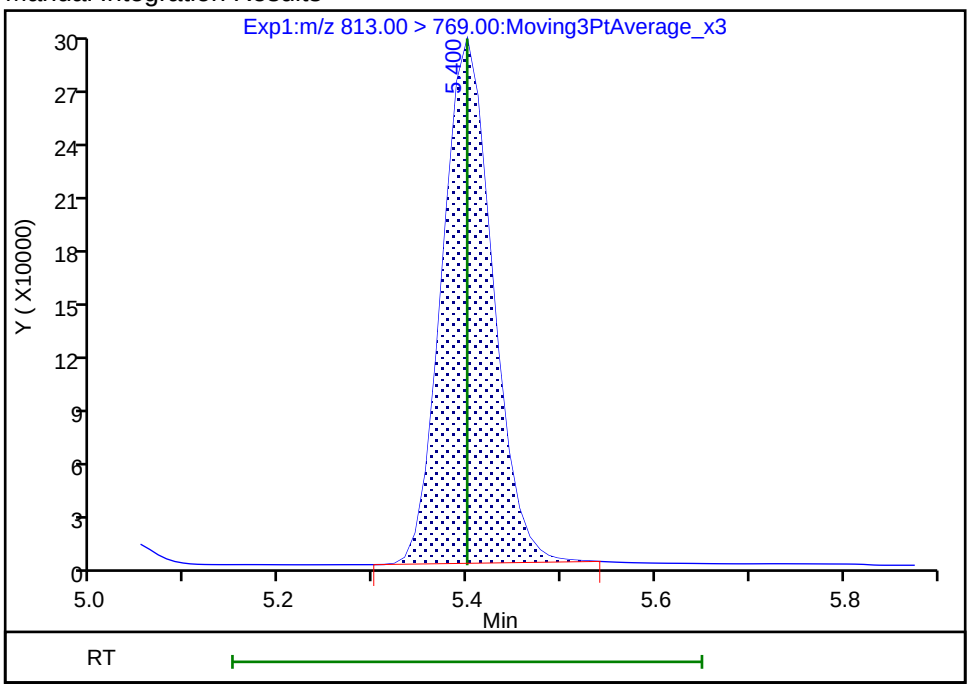
Processing Integration Results

RT: 5.40
Area: 1112186
Amount: 1.051638
Amount Units: ng/ml



Manual Integration Results

RT: 5.40
Area: 1100161
Amount: 1.040050
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:25:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

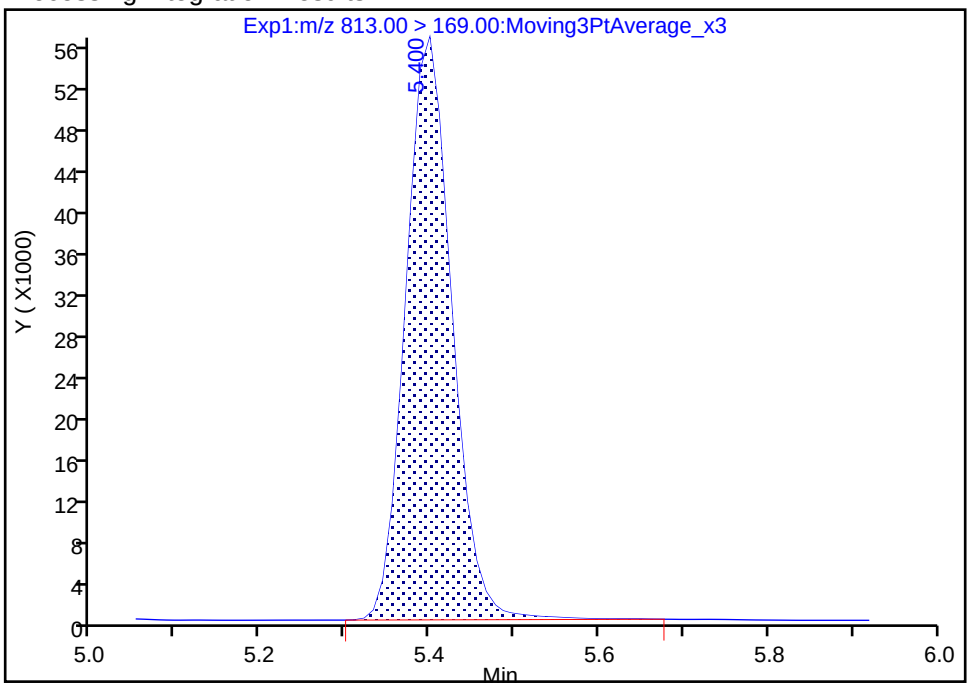
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d				
Injection Date:	05-May-2022 16:10:49	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

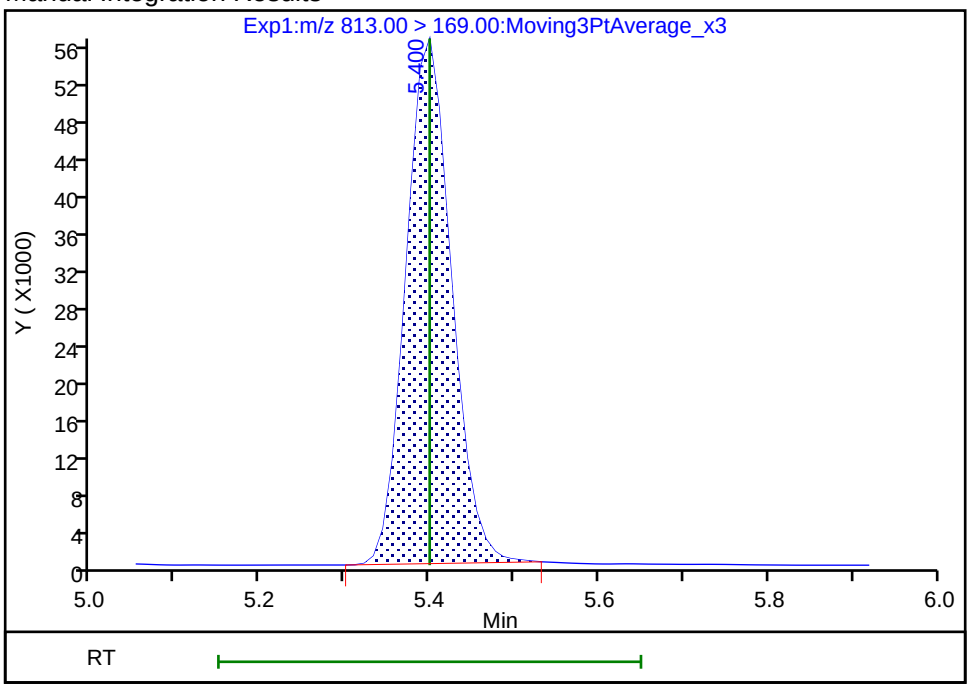
Processing Integration Results

RT: 5.40
Area: 214384
Amount: 1.051638
Amount Units: ng/ml



Manual Integration Results

RT: 5.40
Area: 211550
Amount: 1.040050
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:25:46

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

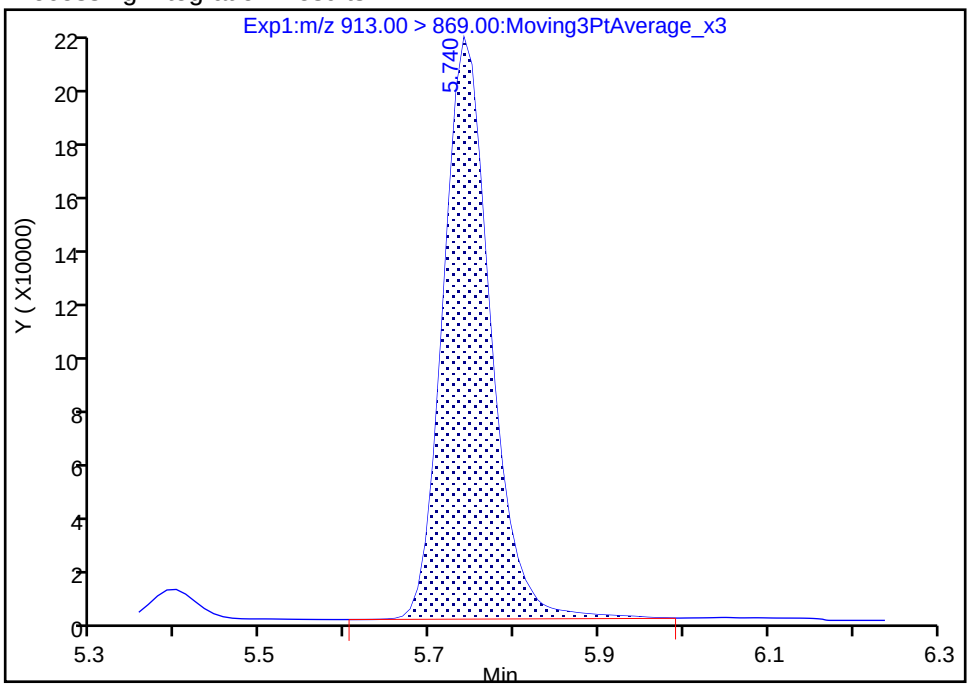
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

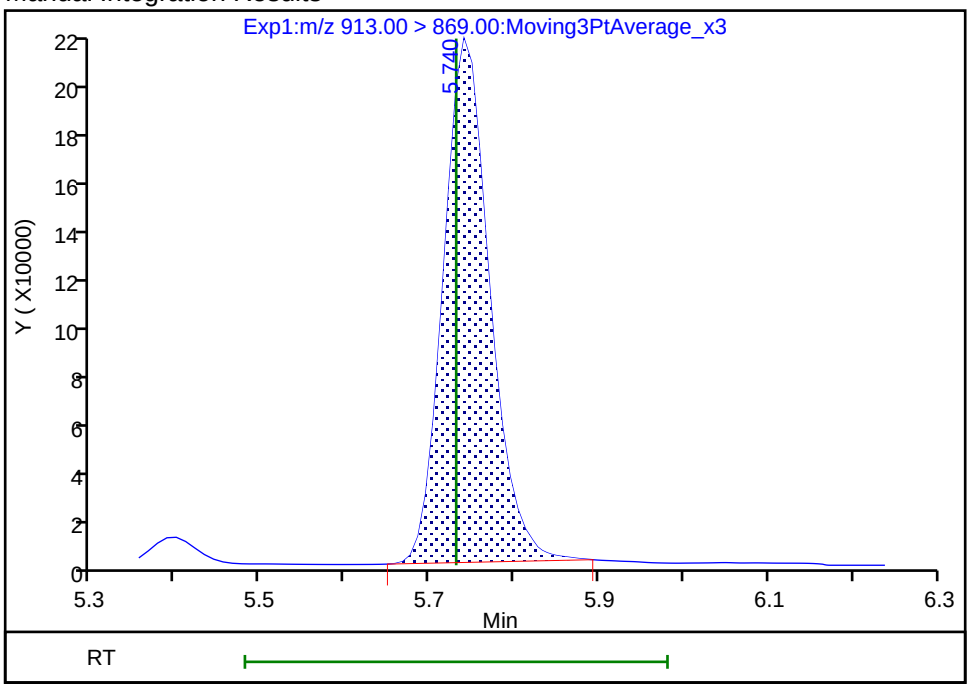
Processing Integration Results

RT: 5.74
Area: 827815
Amount: 1.004197
Amount Units: ng/ml



Manual Integration Results

RT: 5.74
Area: 810812
Amount: 0.983571
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:25:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

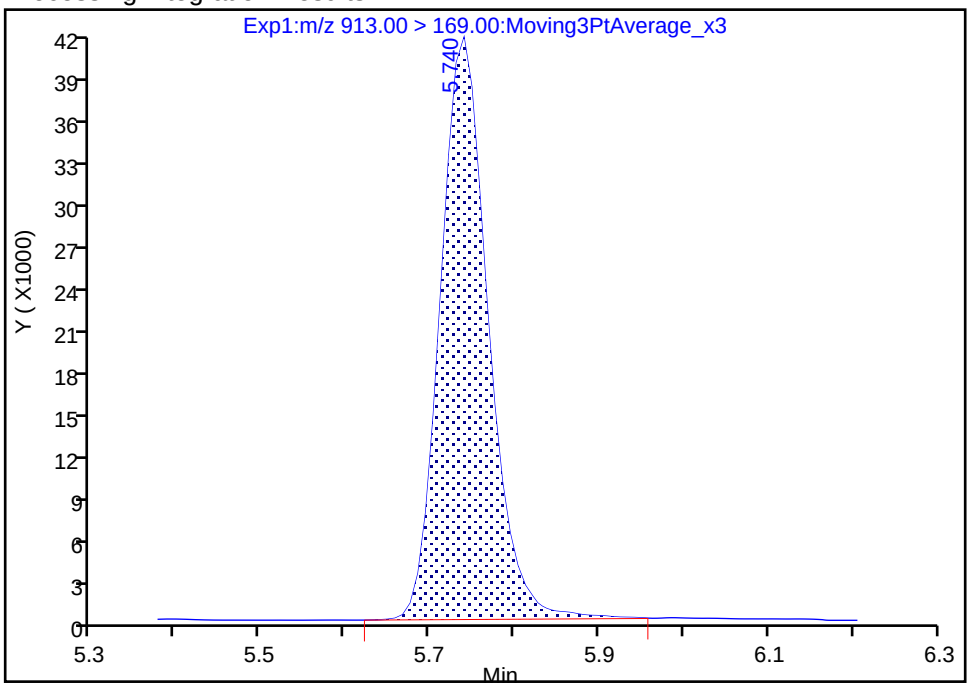
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL12.d
Injection Date: 05-May-2022 16:10:49 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

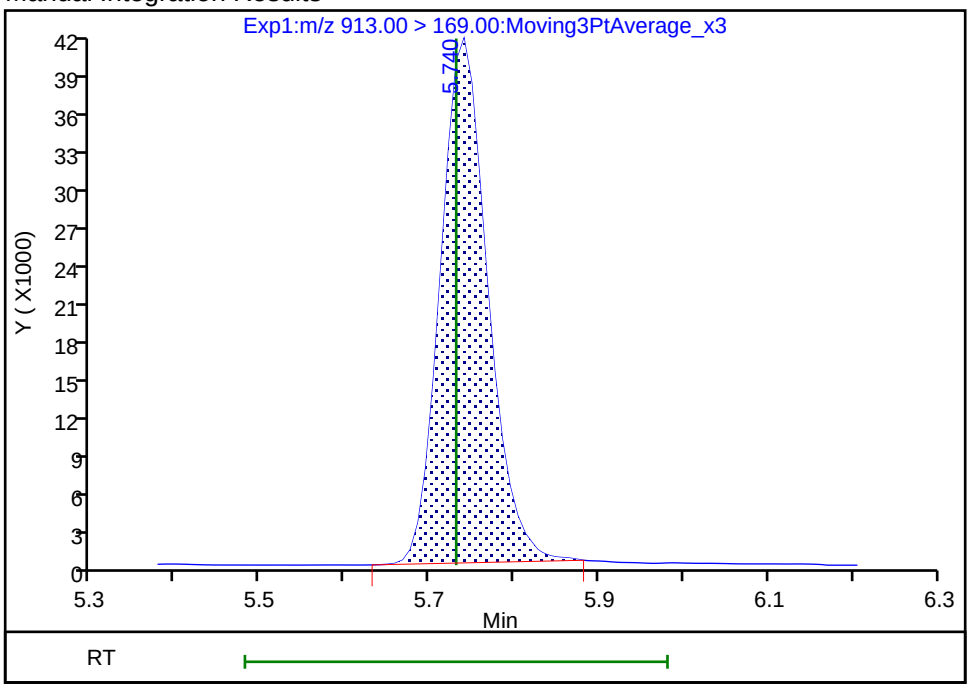
Processing Integration Results

RT: 5.74
Area: 164658
Amount: 1.004197
Amount Units: ng/ml



Manual Integration Results

RT: 5.74
Area: 161824
Amount: 0.983571
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:25:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: CCVLIS 200-180744/5 Calibration Date: 06/13/2022 17:41

Instrument ID: LC812 Calib Start Date: 05/05/2022 15:13

GC Column: C-18 ID: 4.60(mm) Calib End Date: 05/05/2022 15:54

Lab File ID: PA220613A05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9437	0.9746		0.129	0.125	3.3	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.019	1.012		0.0496	0.0500	-0.7	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.090	1.119		0.0454	0.0442	2.7	50.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	2.511	2.996		0.0557	0.0467	19.3	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.079	1.014		0.0470	0.0500	-6.0	50.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.235	1.261		0.0479	0.0469	2.1	50.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.091	1.014		0.0929	0.100	-7.1	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.105	1.191		0.0490	0.0455	7.7	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.011	1.050		0.0519	0.0500	3.9	50.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	3.195	3.975		0.0586	0.0471	24.4	50.0
6:2 FTS	L1ID		1.751		0.108	0.119	-8.9	50.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.202	1.214		0.0481	0.0476	1.0	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.120	1.246		0.0556	0.0500	11.3	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.068	1.078		0.0468	0.0464	1.0	50.0
Perfluorononanoic acid (PFNA)	AveID	0.9672	1.022		0.0529	0.0500	5.7	50.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	AveID	1.765	1.811		0.0478	0.0466	2.6	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8088	0.8332		0.0494	0.0480	3.0	50.0
8:2 FTS	AveID	1.113	1.362		0.0586	0.0479	22.4	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.065	1.074		0.0504	0.0500	0.8	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	1.015	1.008		0.0497	0.0500	-0.6	50.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9094	0.8708		0.120	0.125	-4.3	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6168	0.5868		0.0459	0.0482	-4.9	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.031	1.045		0.0507	0.0500	1.4	50.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9381	0.9249		0.123	0.125	-1.4	50.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	AveID	2.441	2.726		0.0526	0.0471	11.7	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.031	0.9710		0.0471	0.0500	-5.9	50.0
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.5535	0.5436		0.0473	0.0482	-1.8	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2803	0.2818		0.0487	0.0484	0.6	50.0

FORM VII 537 (modified)

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: CCVLIS 200-180744/5 Calibration Date: 06/13/2022 17:41

Instrument ID: LC812 Calib Start Date: 05/05/2022 15:13

GC Column: C-18 ID: 4.60(mm) Calib End Date: 05/05/2022 15:54

Lab File ID: PA220613A05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.8784	0.9300		0.0529	0.0500	5.9	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1545	0.1668		0.0540	0.0500	8.0	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		1.199		0.0483	0.0500	-3.4	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.6966	0.6855		0.0492	0.0500	-1.6	50.0
13C4 PFBA	Ave	1.062	1.233		1.45	1.25	16.2	
13C5 PFPeA	Ave	0.8115	0.9192		1.42	1.25	13.3	
13C3 PFBS	Ave	1.177	1.192		1.18	1.16	1.3	
M2-4:2 FTS	Ave	0.0973	0.0925		1.11	1.17	-4.9	
13C2 PFHxA	Ave	0.8298	0.9040		1.36	1.25	8.9	
13C3 HFPO-DA	Ave	0.1420	0.1441		1.27	1.25	1.4	
18O2 PFHxS	Ave	0.9203	0.8944		1.15	1.18	-2.8	
13C4 PFHpA	Ave	0.8953	0.9659		1.35	1.25	7.9	
M2-6:2 FTS	Ave	0.1501	0.1398		1.11	1.19	-6.9	
13C4 PFOA	Ave	0.9414	0.9895		1.31	1.25	5.1	
13C4 PFOS	Ave	0.7230	0.6766		1.12	1.20	-6.4	
13C5 PFNA	Ave	1.023	1.000		1.22	1.25	-2.3	
13C2 PFDA	Ave	0.9850	1.036		1.31	1.25	5.2	
M2-8:2 FTS	Ave	0.1803	0.1812		1.20	1.20	0.5	
13C8 FOSA	Ave	1.084	1.007		1.16	1.25	-7.0	
d3-NMeFOSAA	Ave	0.1307	0.1572		1.50	1.25	20.2	
13C2 PFUnA	Ave	0.7909	0.8277		1.31	1.25	4.7	
d5-NEtFOSAA	Ave	0.1277	0.1535		1.50	1.25	20.2	
13C2 PFDoA	Ave	0.8446	0.8169		1.21	1.25	-3.3	
13C2 PFTeDA	Ave	0.6903	0.6474		1.17	1.25	-6.2	
13C2 PFHxDA	Ave	0.7156	0.7619		1.33	1.25	6.5	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Lims ID: CCVLIS
Client ID:
Sample Type: CCVLIS
Inject. Date: 13-Jun-2022 17:41:43 ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCVLIS
Misc. Info.: 200-0051257-005 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 14-Jun-2022 14:34:58 Calib Date: 05-May-2022 15:54:29
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1636

First Level Reviewer: khanphomeea Date: 14-Jun-2022 09:49:43
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	2.085	2.085	0.0	0.599	2145885	1.45		116	9661	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.093	2.093	0.0	1.004	209144	0.1291		103	30.6	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.400	0.0	0.689	1599414	1.42		113	3732	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.400	2.400	0.0	1.000	64719	0.0496		99.3	3.0	M
D 47 13C3 PFBS										
301.90 > 80.00	2.427	2.427	0.0	0.697	1928518	1.18		101	315356	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.427	2.427	0.0	1.000	82075	0.0454	Target=2.15	103	90.9	
298.90 > 99.00	2.427	2.427	0.0	1.000	37425		2.19(1.07-3.22)		27.9	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.725	2.725	0.0	0.783	150390	1.11		95.1	129	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.725	2.725	0.0	1.000	18025	0.0557		119	179	
D 7 13C2 PFHxA										
315.00 > 270.00	2.762	2.762	0.0	0.793	1572967	1.36		109	3178	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.762	2.762	0.0	1.000	63830	0.0470	Target=12.59	94.0	12.7	
313.00 > 119.00	2.750	2.762	-0.012	0.996	5870		10.87(6.29-18.88)		8.5	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.762	2.762	0.0	0.885	73627	0.0479	Target=2.96	102	174	
349.00 > 99.00	2.762	2.762	0.0	0.885	25911		2.84(1.48-4.44)		50.9	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.871	2.871	0.0	0.825	250695	1.27		101	2213	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.871	2.871	0.0	1.000	20338	0.0929		92.9	345	M
D 11 18O2 PFHxS										M
403.00 > 84.00	3.121	3.121	0.0	0.896	1472316	1.15		97.2	2038	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.121	3.121	0.0	1.000	67459	0.0490	Target=3.53	108	185	M
399.00 > 99.00	3.132	3.121	0.011	1.004	18343		3.68(1.76-5.29)		35.8	M
D 9 13C4 PFHpA										M
367.00 > 322.00	3.132	3.132	0.0	0.899	1680676	1.35		108	1696	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.132	3.132	0.0	1.000	70583	0.0519	Target=3.75	104	22.2	M
363.00 > 169.00	3.132	3.132	0.0	1.000	20411		3.46(1.87-5.62)		28.8	M
77 DONA										
377.00 > 251.00	3.165	3.165	0.0	0.833	176332	0.0586	Target=2.77	124	305	
377.00 > 85.00	3.165	3.165	0.0	0.833	57349		3.07(1.38-4.15)		128	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.474	3.474	0.0	0.914	54440	0.0481	Target=4.90	101	296	
449.00 > 99.00	3.474	3.474	0.0	0.914	11373		4.79(2.45-7.35)		61.8	
D 12 M2-6:2 FTS										M
429.00 > 81.00	3.474	3.474	0.0	0.997	231074	1.11		93.1	427	M
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.474	3.474	0.0	1.000	40384	0.1079		91.1	16.8	
* 62 13C2 PFOA										M
415.00 > 370.00	3.482	3.482	0.0		1740081	1.25			1036	M
D 14 13C4 PFOA										M
417.00 > 372.00	3.482	3.482	0.0	1.000	1721810	1.31		105	2504	M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.482	3.482	0.0	1.000	85825	0.0556	Target=2.68	111	7.8	M
413.00 > 169.00	3.482	3.482	0.0	1.000	29411		2.92(1.34-4.02)		61.8	M
D 18 13C4 PFOS										
503.00 > 80.00	3.802	3.802	0.0	1.092	1125613	1.12		93.6	2689	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.802	3.802	0.0	1.000	47119	0.0468	Target=4.47	101	48.5	M
499.00 > 99.00	3.802	3.802	0.0	1.000	12110		3.89(2.24-6.71)		39.9	M
D 19 13C5 PFNA										M
468.00 > 423.00	3.822	3.822	0.0	1.098	1739598	1.22		97.7	2257	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.822	3.822	0.0	1.000	71144	0.0529	Target=7.74	106	17.2	
463.00 > 169.00	3.822	3.822	0.0	1.000	9184		7.75(3.87-11.61)		82.9	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.969	3.969	0.0	1.044	79475	0.0478		103	462	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.093	4.093	0.0	1.076	37673	0.0494	Target=2.49	103	258	
549.00 > 99.00	4.093	4.093	0.0	1.076	13386		2.81(1.24-3.73)		65.3	
D 23 13C2 PFDA										M
515.00 > 470.00	4.127	4.127	0.0	1.185	1802700	1.31		105	2458	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.127	4.127	0.0	1.000	77415	0.0504	Target=9.31	101	37.3	
513.00 > 169.00	4.127	4.127	0.0	1.000	6075		12.74(4.65-13.96)		30.4	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.127	4.127	0.0	1.000	16458	0.0586		122	178	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.127	4.127	0.0	1.185	302085	1.20		100	739	
D 21 13C8 FOSA										M
506.00 > 78.00	4.195	4.195	0.0	1.205	1753042	1.16		93.0	1704	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.195	4.195	0.0	1.000	70703	0.0497		99.4	161	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.261	4.261	0.0	1.224	273486	1.50		120	1626	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.273	4.273	0.0	1.003	23814	0.1197		95.7	82.5	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.365	4.365	0.0	1.148	26640	0.0459	Target=2.56	95.1	231	
599.00 > 99.00	4.365	4.365	0.0	1.148	9152		2.91(1.28-3.84)		126	M
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.387	4.387	0.0	1.000	60182	0.0507	Target=9.41	101	36.6	
563.00 > 169.00	4.398	4.387	0.011	1.003	5668		10.62(4.70-14.11)		88.6	
D 30 13C2 PFUnA										M
565.00 > 520.00	4.387	4.387	0.0	1.260	1440335	1.31		105	2191	M
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.398	4.398	0.0	1.263	267090	1.50		120	1161	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.410	4.410	0.0	1.003	24704	0.1232		98.6	184	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.491	4.491	0.0	1.181	120944	0.0526		112	304	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.622	4.622	0.0	0.998	55208	0.0471	Target=6.95	94.1	8.4	M
613.00 > 169.00	4.633	4.622	0.011	1.000	7464		7.40(3.48-10.43)		74.8	M
D 36 13C2 PFDoA										M
615.00 > 570.00	4.633	4.633	0.0	1.330	1421488	1.21		96.7	1632	M
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.654	4.654	0.0	1.128	6610	0.0473		98.2	140	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.803	4.803	0.0	1.263	12848	0.0487	Target=0.55	101	188	
699.00 > 99.00	4.803	4.803	0.0	1.263	23780		0.54(0.27-0.82)		509	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.848	4.848	0.0	1.046	52877	0.0529	Target=4.44	106	9.2	M
663.00 > 169.00	4.848	4.848	0.0	1.046	10952		4.83(2.22-6.66)		93.0	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.032	5.032	0.0	0.998	7517	0.0540	Target=0.96	108	114	M
713.00 > 219.00	5.032	5.032	0.0	0.998	7102		1.06(0.48-1.44)		163	
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.042	5.042	0.0	1.448	1126499	1.17		93.8	1588	M

Report Date: 14-Jun-2022 14:34:59 Chrom Revision: 2.3 18-May-2022 20:00:04
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.389	5.389	0.0	1.547	1325741	1.33		106	1583	M
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.400	5.400	0.0	1.002	63599	0.0483	Target=4.90	96.6	13.3	
813.00 > 169.00	5.389	5.400	-0.011	1.000	12149		5.23(2.45-7.36)		161	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.731	5.731	0.0	1.064	36350	0.0492	Target=4.81	98.4	10.8	M
913.00 > 169.00	5.731	5.731	0.0	1.064	6644		5.47(2.40-7.21)		96.2	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

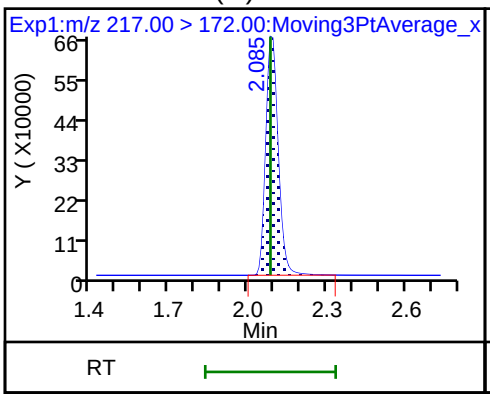
PFAS32NCLOQV_00022 Amount Added: 100.00 Units: uL

Report Date: 14-Jun-2022 14:34:59 Chrom Revision: 2.3 18-May-2022 20:00:04

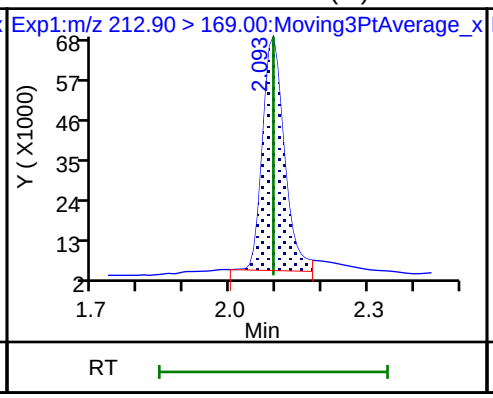
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL

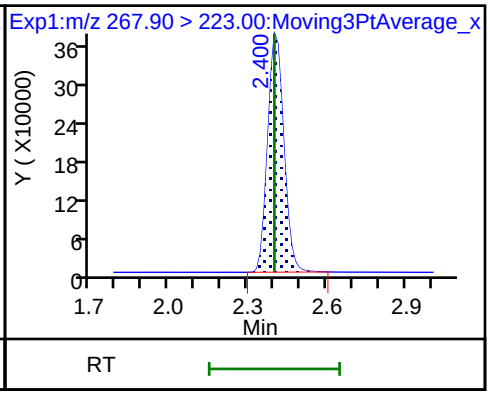
D 1 13C4 PFBA (M)



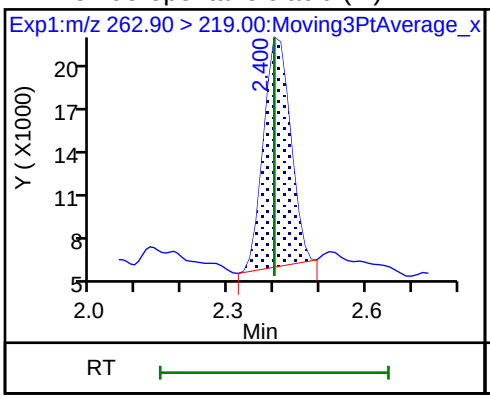
2 Perfluorobutanoic acid (M)



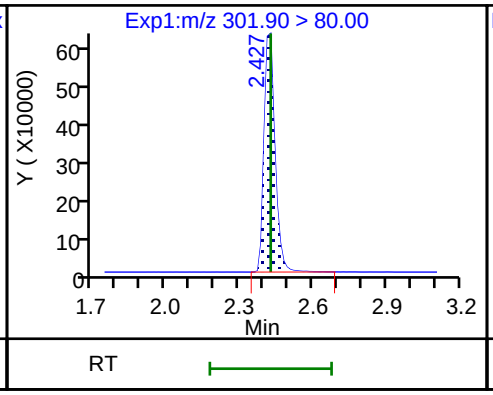
D 3 13C5 PFPeA



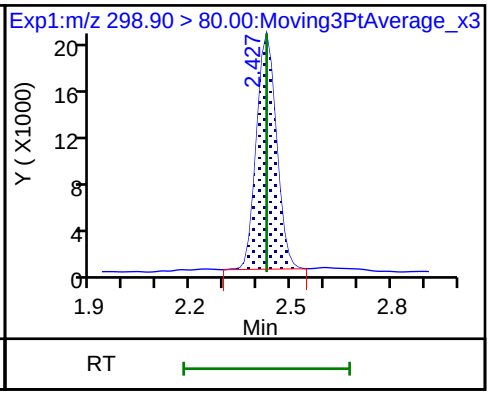
4 Perfluoropentanoic acid (M)



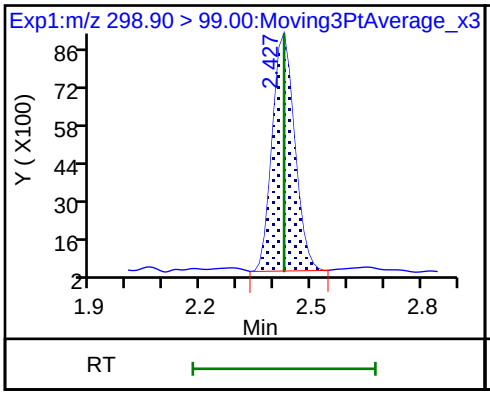
D 47 13C3 PFBS



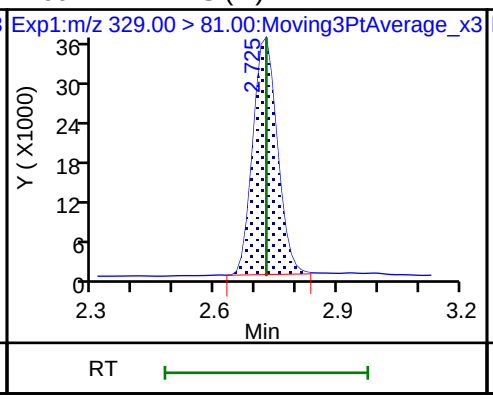
5 Perfluorobutanesulfonic acid



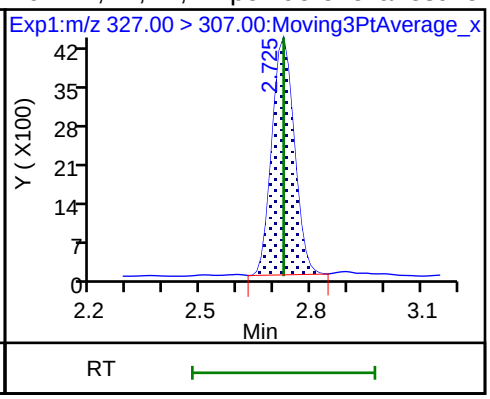
5 Perfluorobutanesulfonic acid



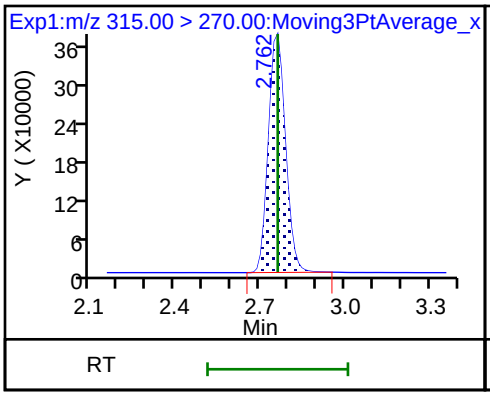
D 60 M2-4:2 FTS (M)



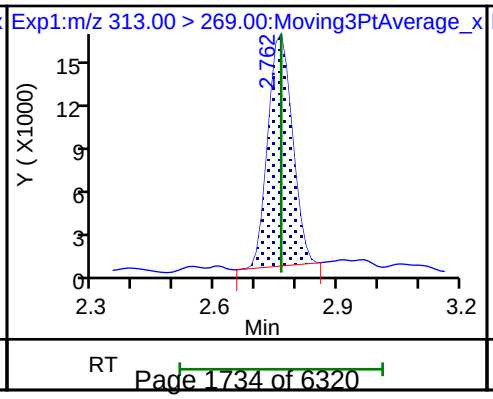
61 1H,1H,2H,2H-perfluorohexanesulfo



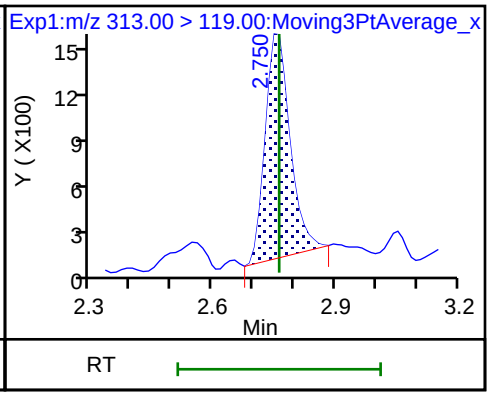
D 7 13C2 PFHxA



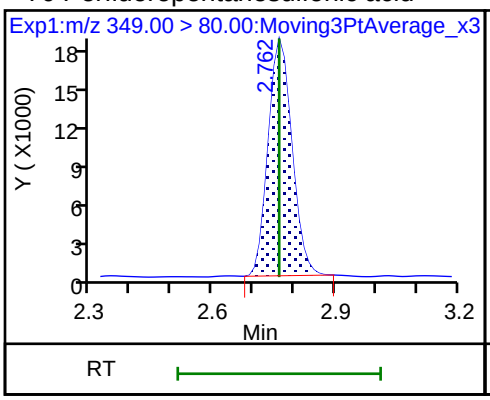
6 Perfluorohexanoic acid



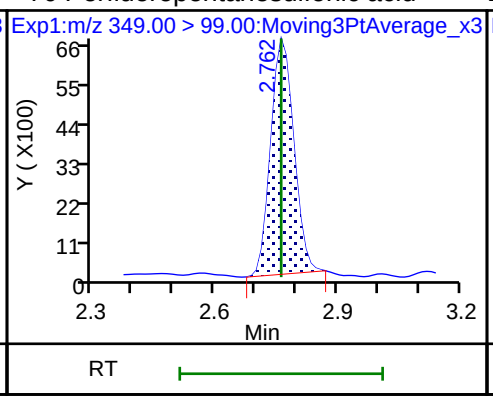
6 Perfluorohexanoic acid



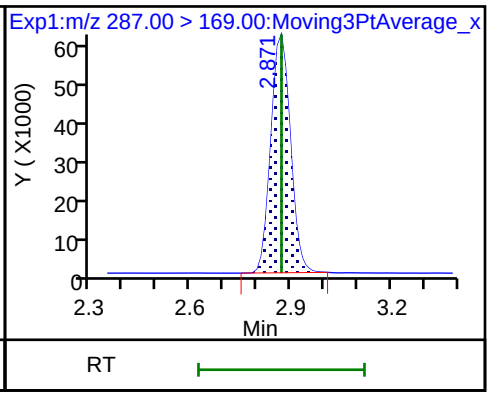
70 Perfluoropentanesulfonic acid



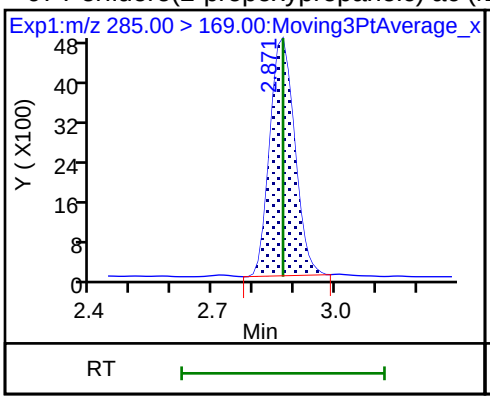
70 Perfluoropentanesulfonic acid



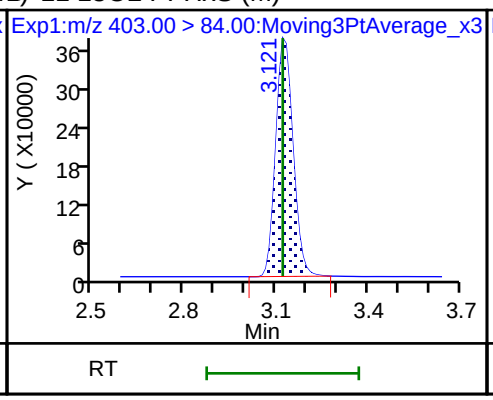
D 64 13C3 HFPO-DA



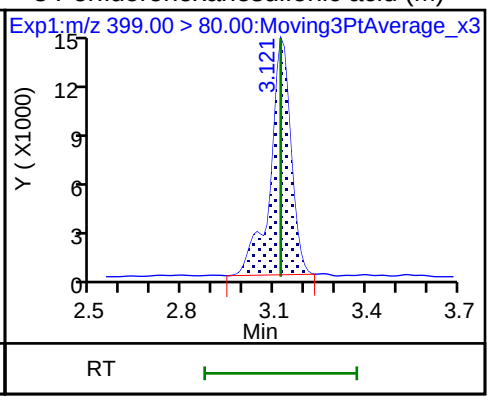
67 Perfluoro(2-propoxypropanoic) ac (M)



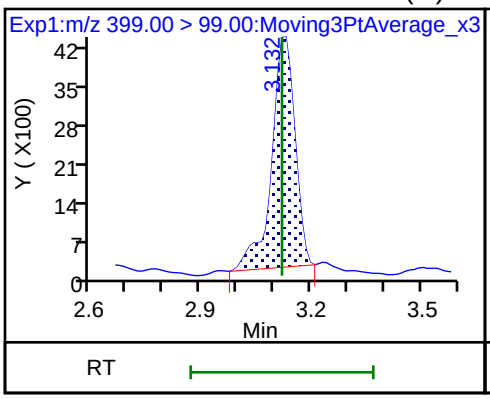
D 11 18O2 PFHxS (M)



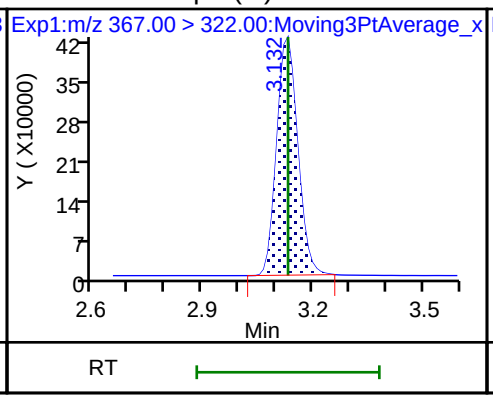
8 Perfluorohexanesulfonic acid (M)



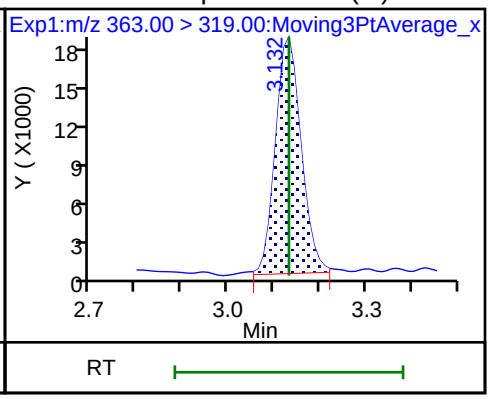
8 Perfluorohexanesulfonic acid (M)



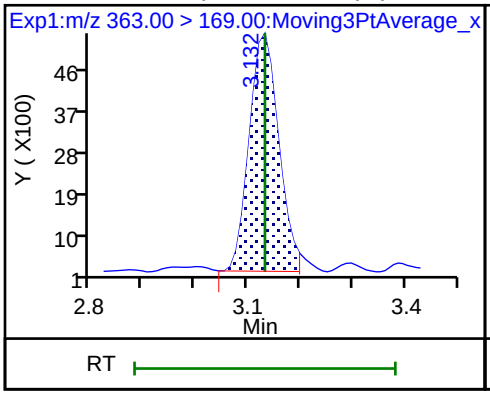
D 9 13C4 PFHpA (M)



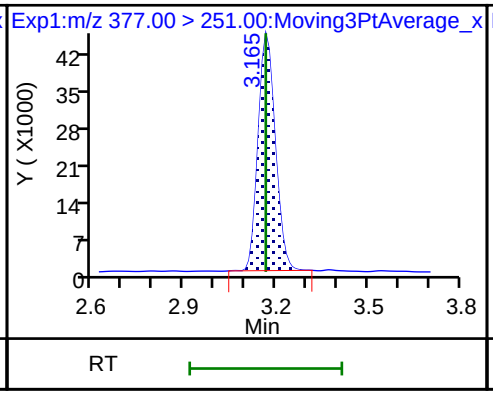
10 Perfluoroheptanoic acid (M)



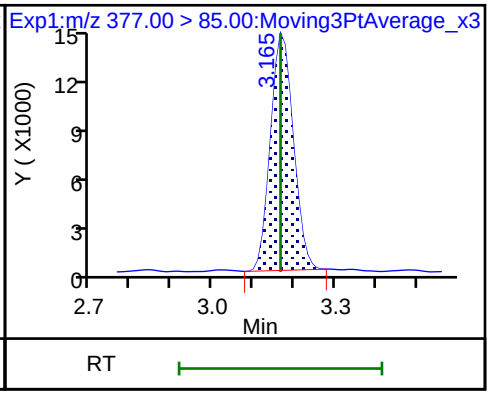
10 Perfluoroheptanoic acid (M)



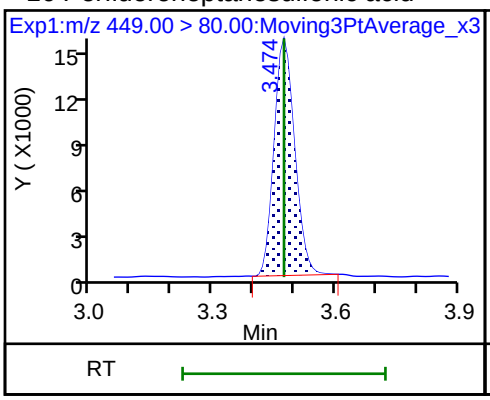
77 DONA



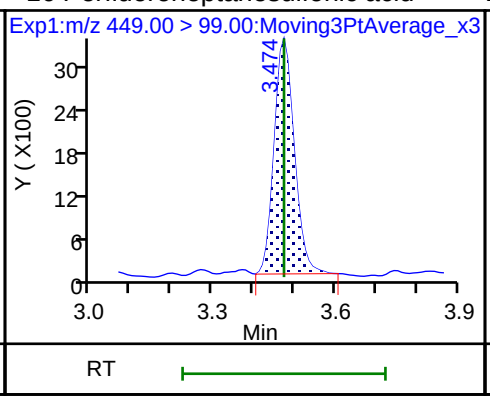
77 DONA



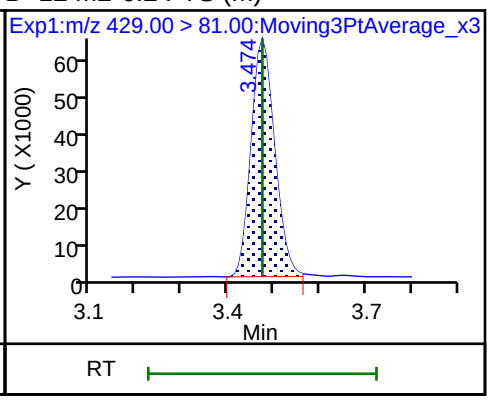
16 Perfluoroheptanesulfonic acid



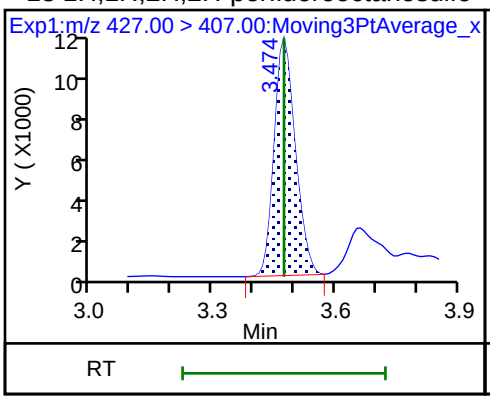
16 Perfluoroheptanesulfonic acid



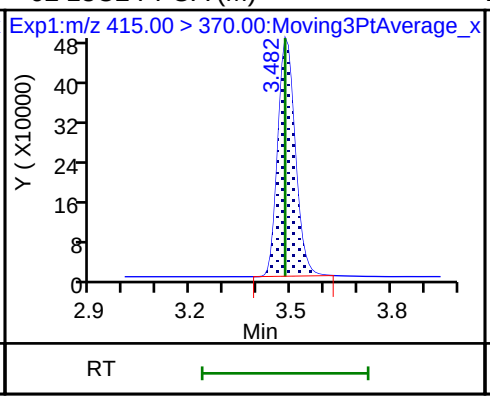
D 12 M2-6:2 FTS (M)

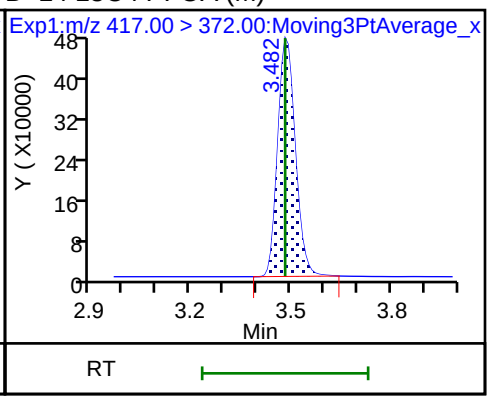


13 1H,1H,2H,2H-perfluorooctanesulfo * 62 13C2 PFOA (M)

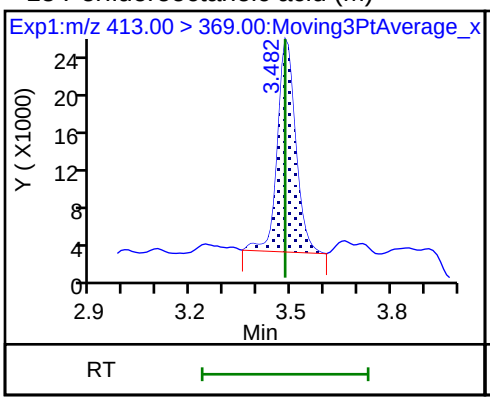


D 14 13C4 PFOA (M)

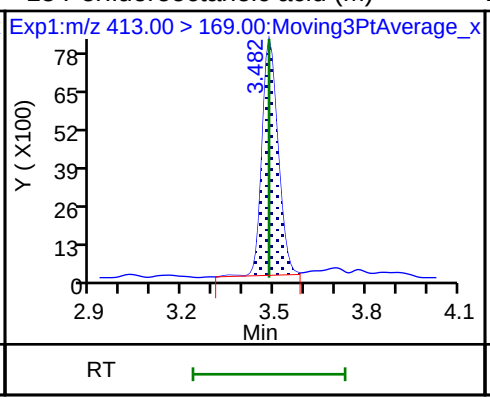




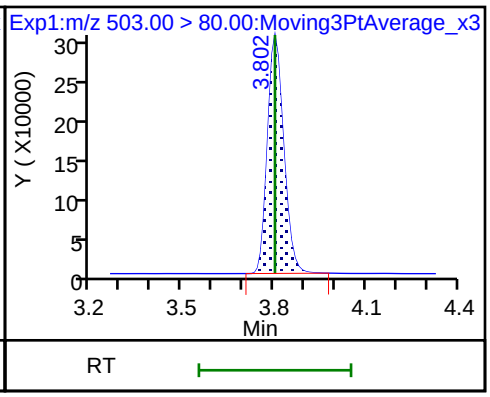
15 Perfluorooctanoic acid (M)



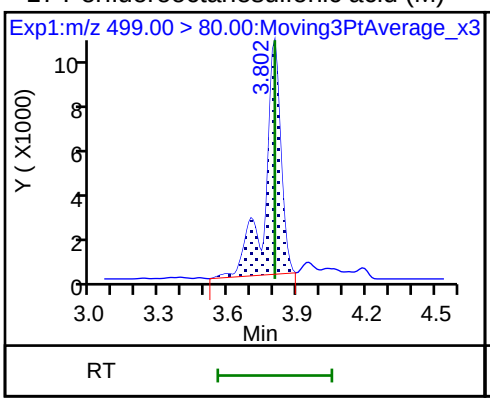
15 Perfluorooctanoic acid (M)



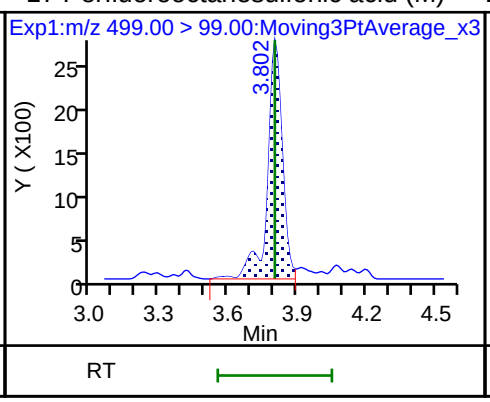
D 18 13C4 PFOS



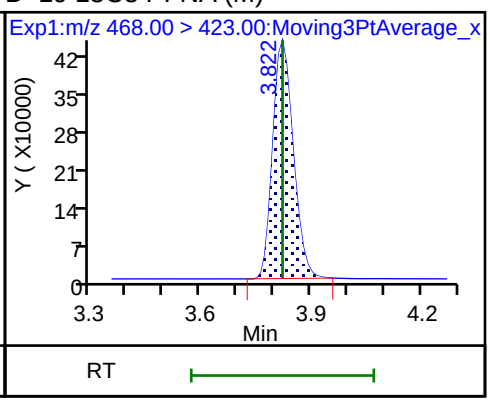
17 Perfluorooctanesulfonic acid (M)



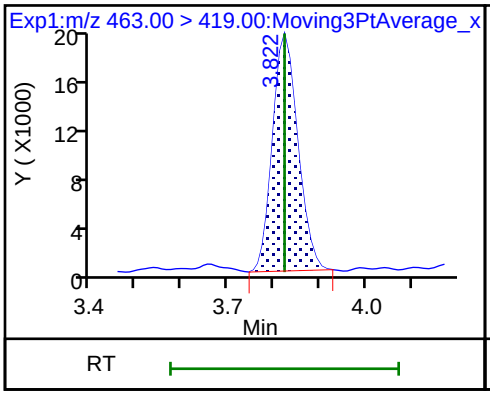
17 Perfluorooctanesulfonic acid (M)



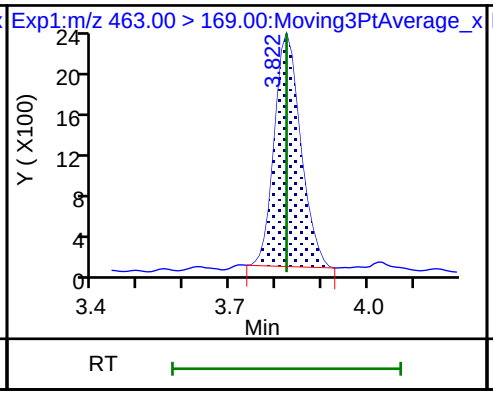
D 19 13C5 PFNA (M)



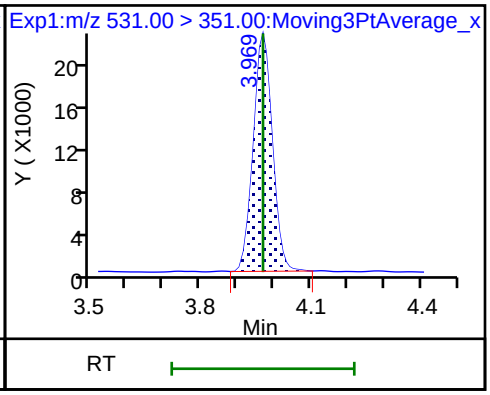
20 Perfluorononanoic acid



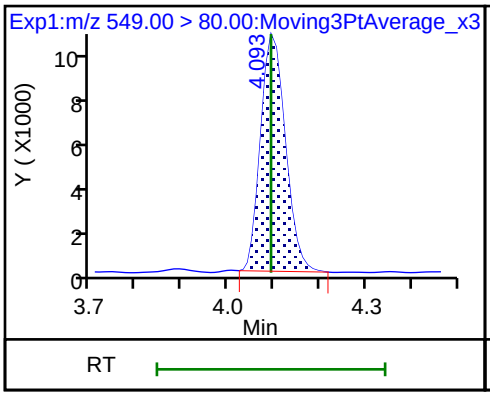
20 Perfluorononanoic acid



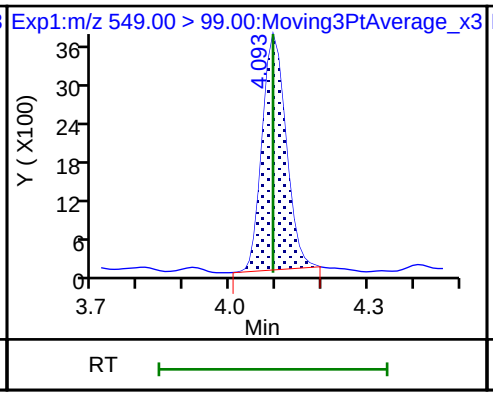
69 9-Chlorohexadecafluoro-3-oxanona



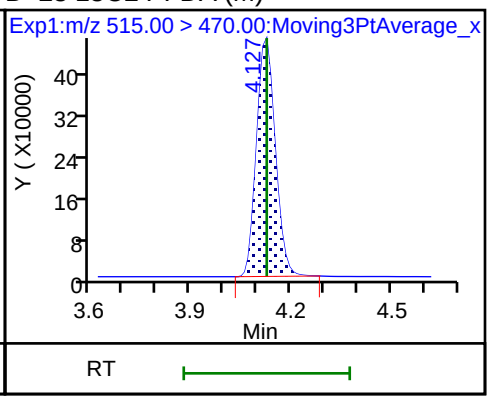
68 Perfluorononanesulfonic acid



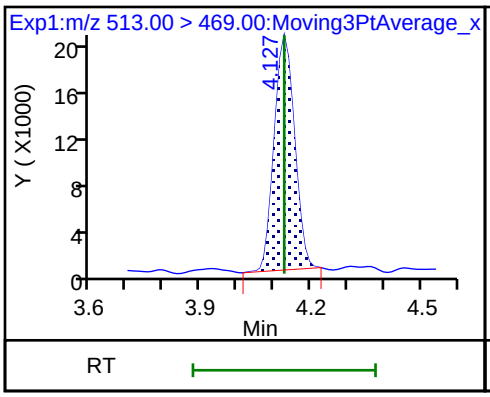
68 Perfluorononanesulfonic acid



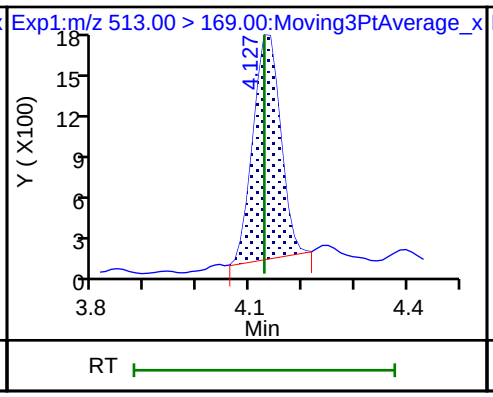
D 23 13C2 PFDA (M)



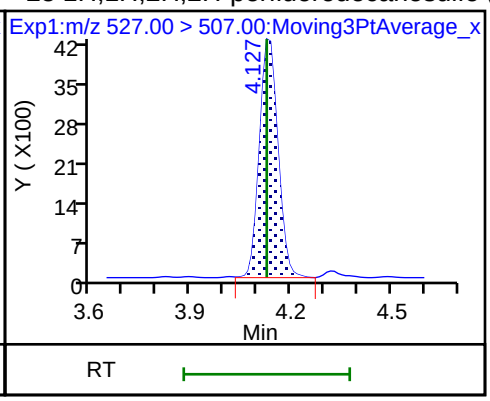
24 Perfluorodecanoic acid



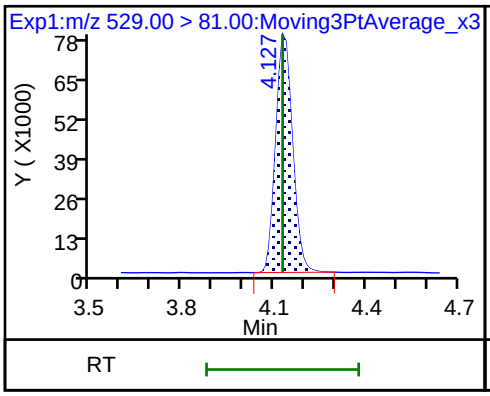
24 Perfluorodecanoic acid



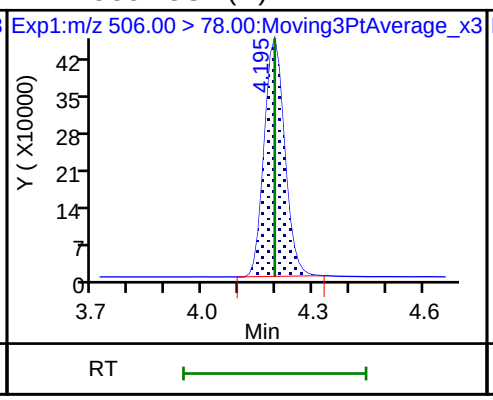
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



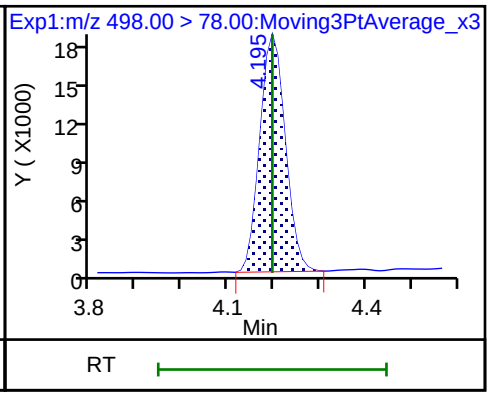
D 26 M2-8:2 FTS



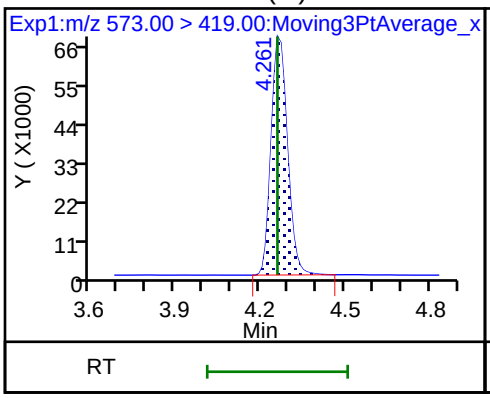
D 21 13C8 FOSA (M)



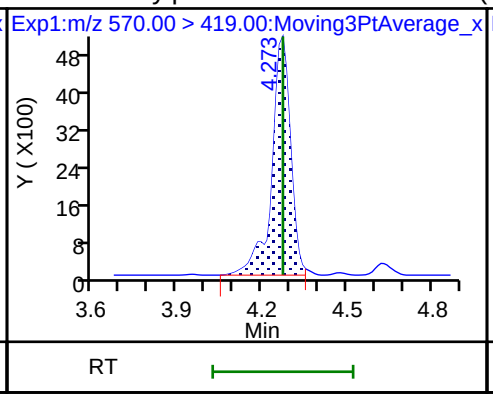
22 Perfluorooctanesulfonamide



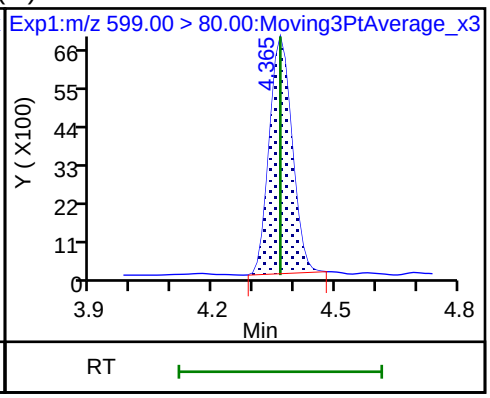
D 27 d3-NMeFOSAA (M)



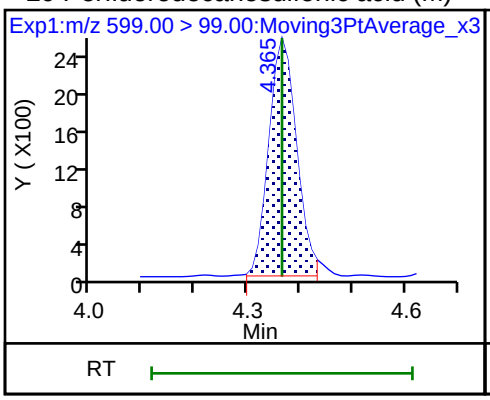
28 N-methylperfluorooctanesulfonami (M)



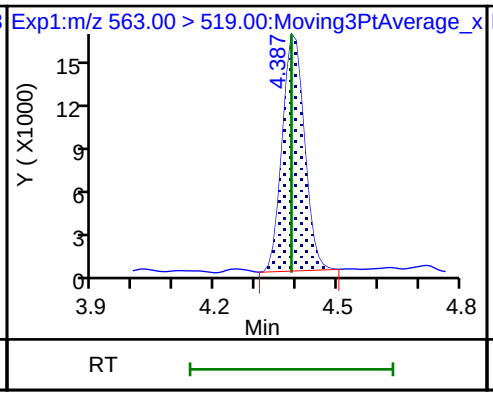
29 Perfluorodecanesulfonic acid



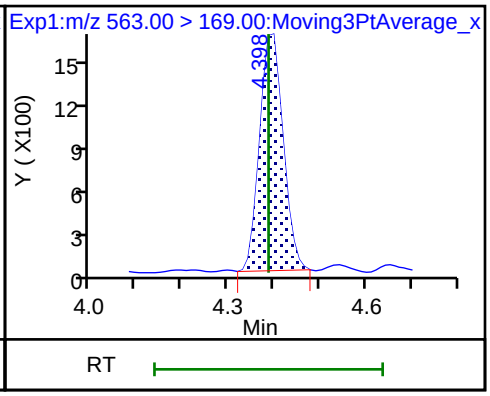
29 Perfluorodecanesulfonic acid (M)



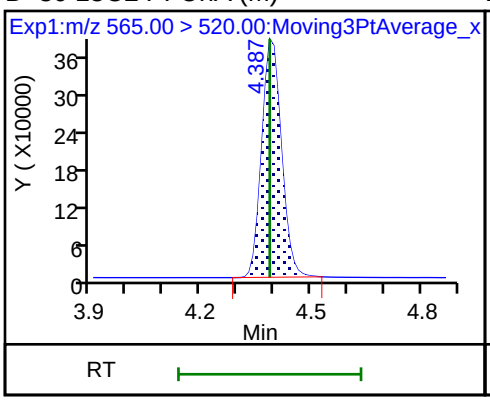
31 Perfluoroundecanoic acid



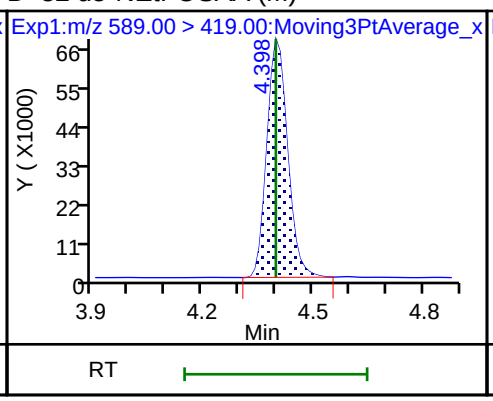
31 Perfluoroundecanoic acid



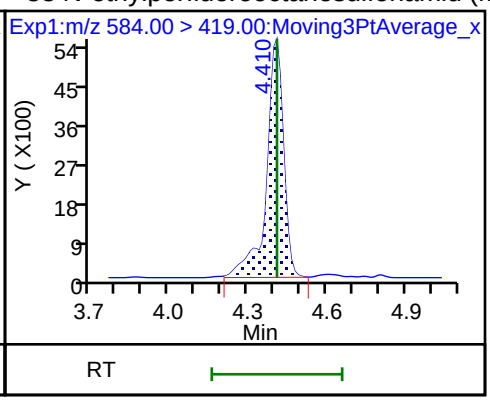
D 30 13C2 PFUnA (M)



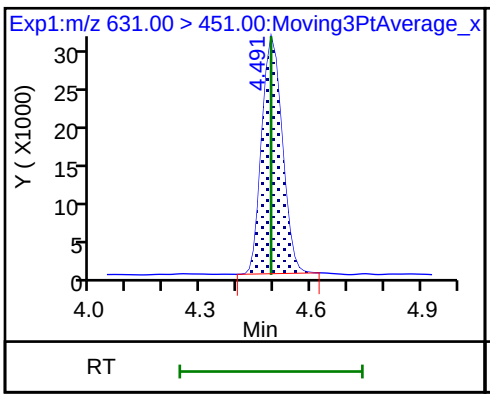
D 32 d5-NEtFOSAA (M)



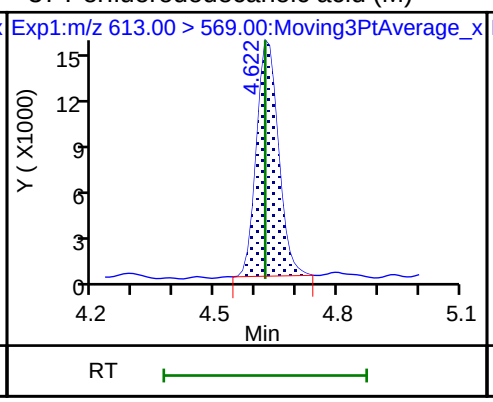
33 N-ethylperfluorooctanesulfonamid (M)



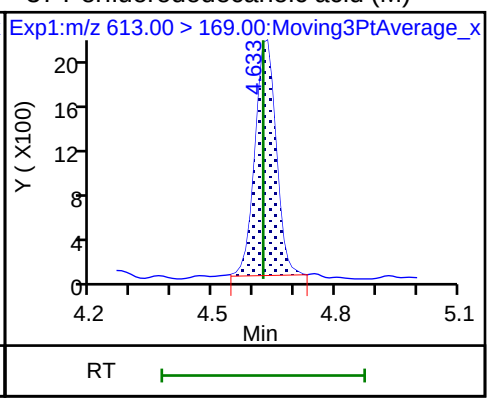
66 11-Chloroeicosafluoro-3-oxaundec



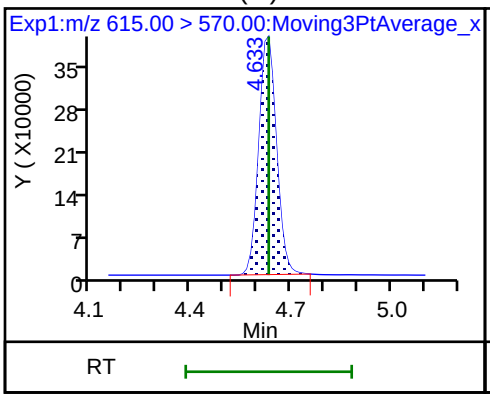
37 Perfluorododecanoic acid (M)



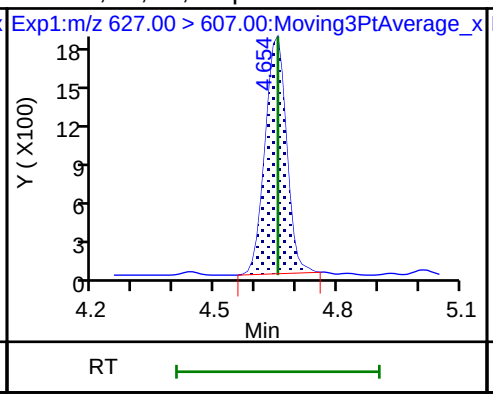
37 Perfluorododecanoic acid (M)



D 36 13C2 PFDoA (M)



74 1H,1H,2H,2H-perfluorododecanesul



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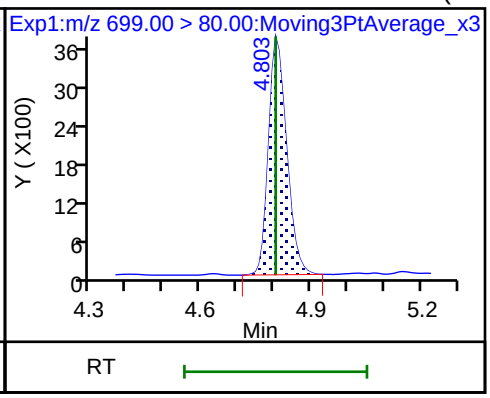
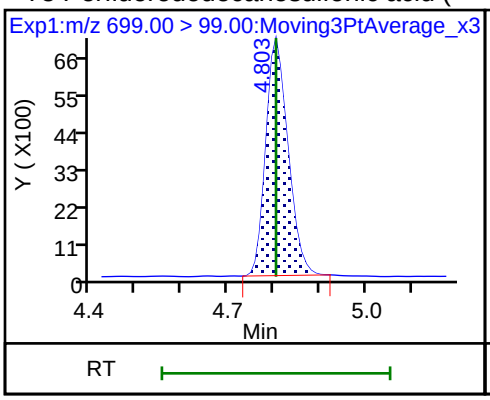
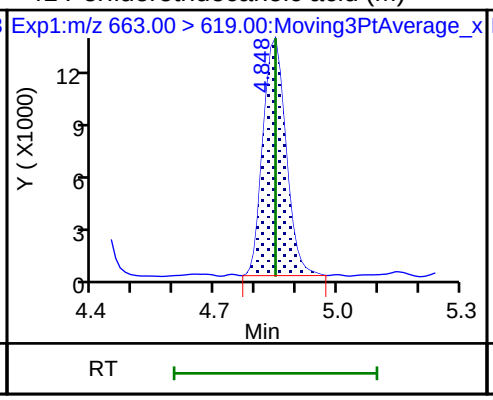


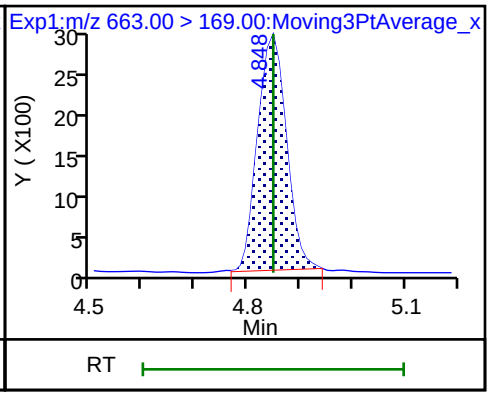
75 Perfluorododecanesulfonic acid (



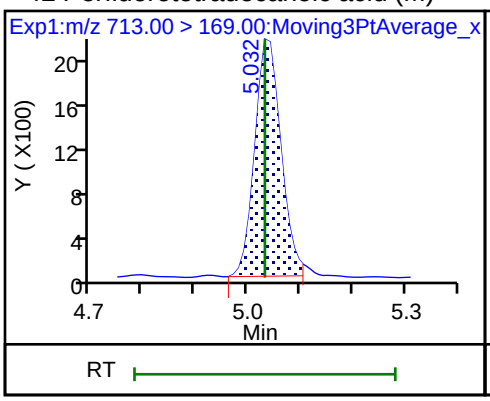
41 Perfluorotridecanoic acid (M)



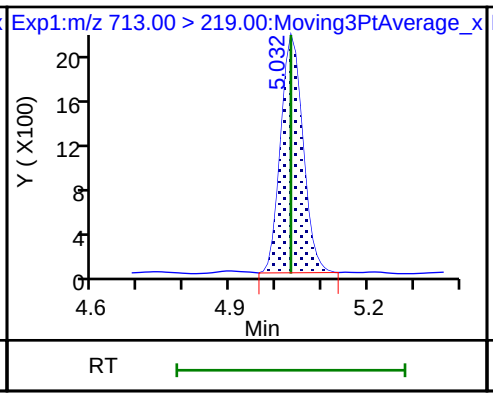
41 Perfluorotridecanoic acid



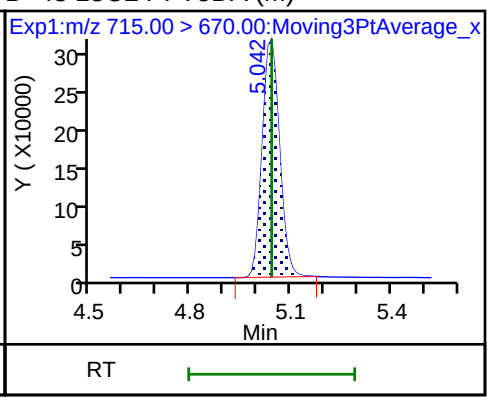
42 Perfluorotetradecanoic acid (M)



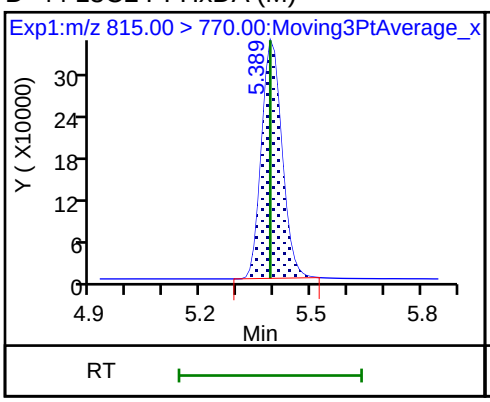
42 Perfluorotetradecanoic acid



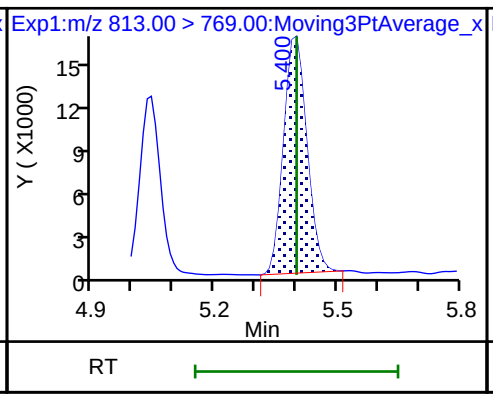
D 43 13C2 PFTeDA (M)



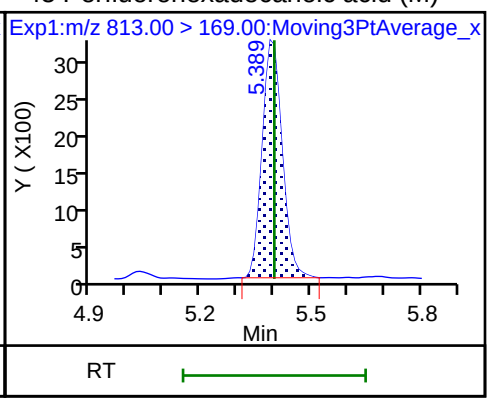
D 44 13C2 PFHxDA (M)



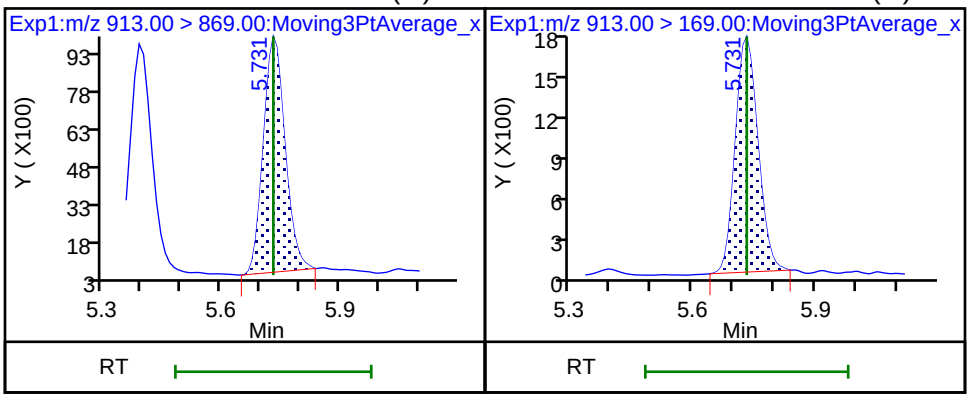
45 Perfluorohexadecanoic acid



45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M) 46 Perfluorooctadecanoic acid (M)



Manual Integration/User Assign Peak Report

Eurofins Burlington

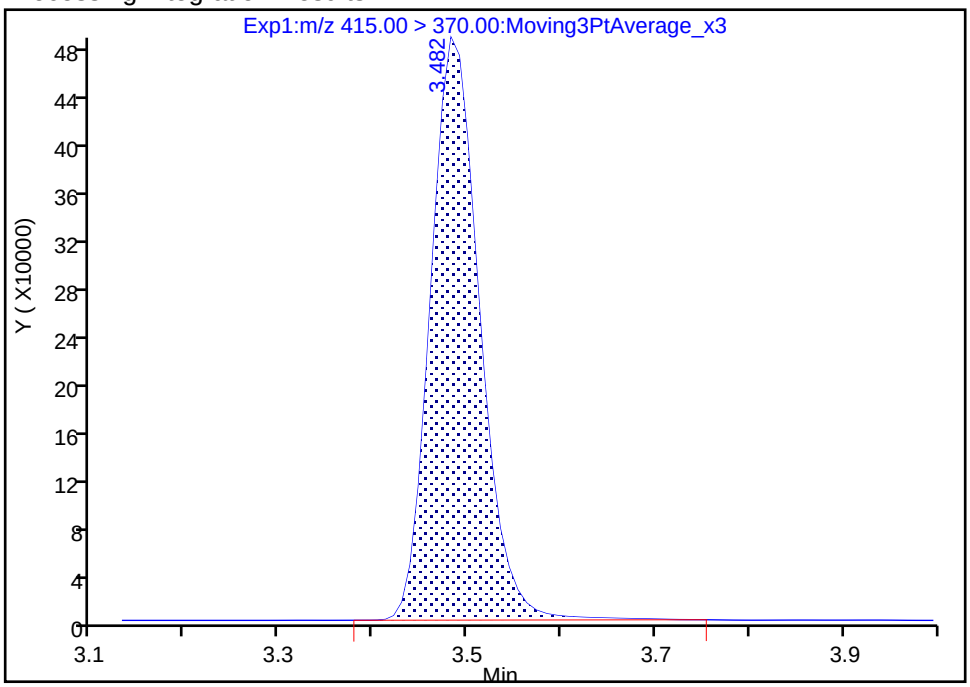
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

* 62 13C2 PFOA, CAS: STL00623

Signal: 1

Processing Integration Results

RT: 3.48
Area: 1760296
Amount: 1.250000
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
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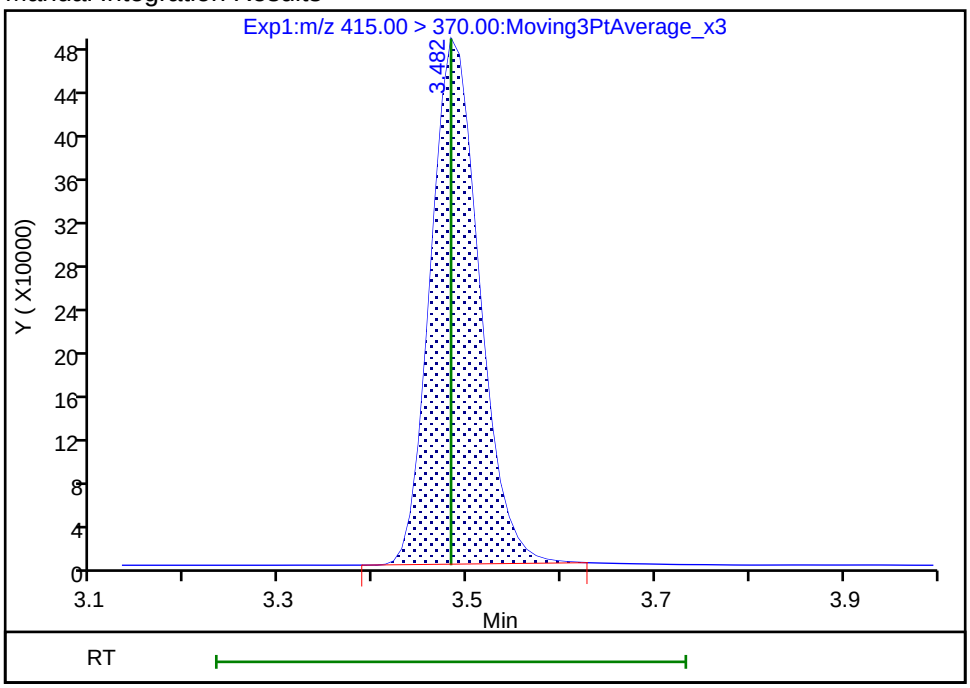
Amount: 1.250000
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:09:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

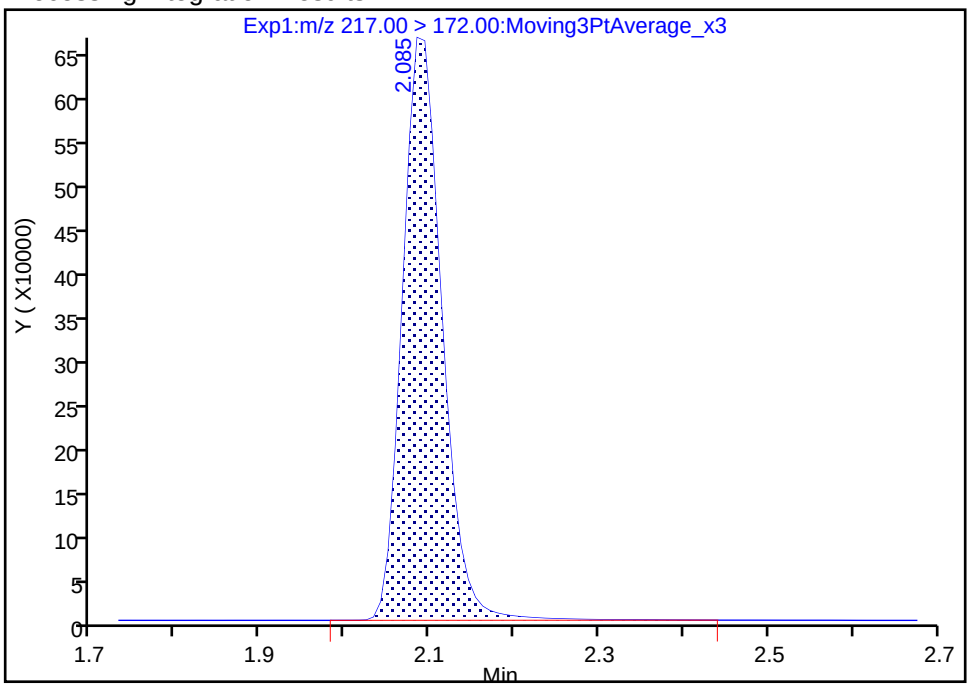
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

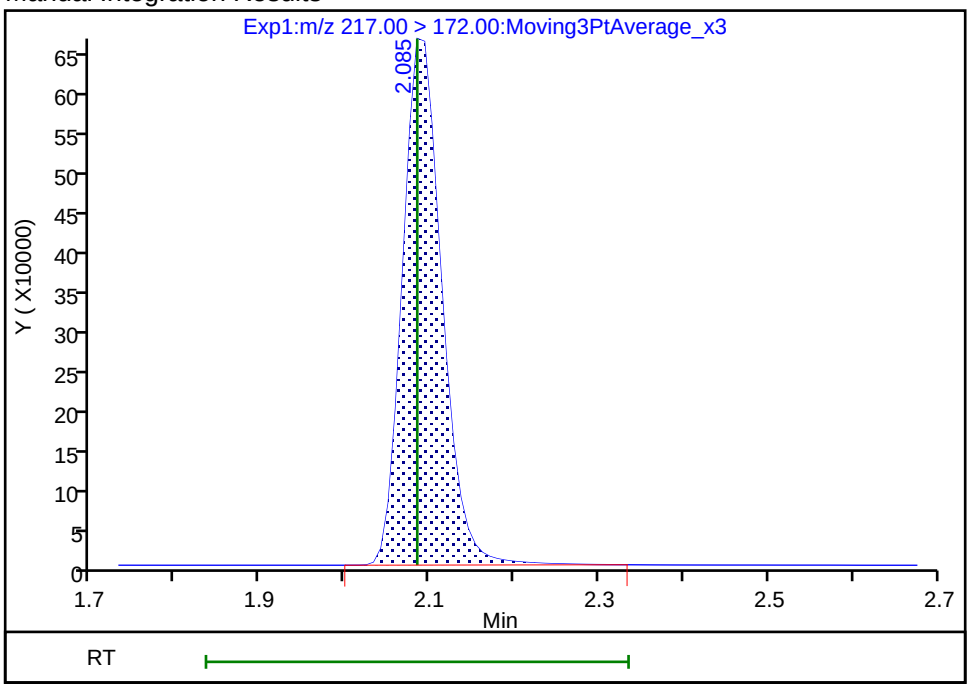
Processing Integration Results

RT: 2.08
Area: 2151167
Amount: 1.438972
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 2145885
Amount: 1.452114
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:08:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

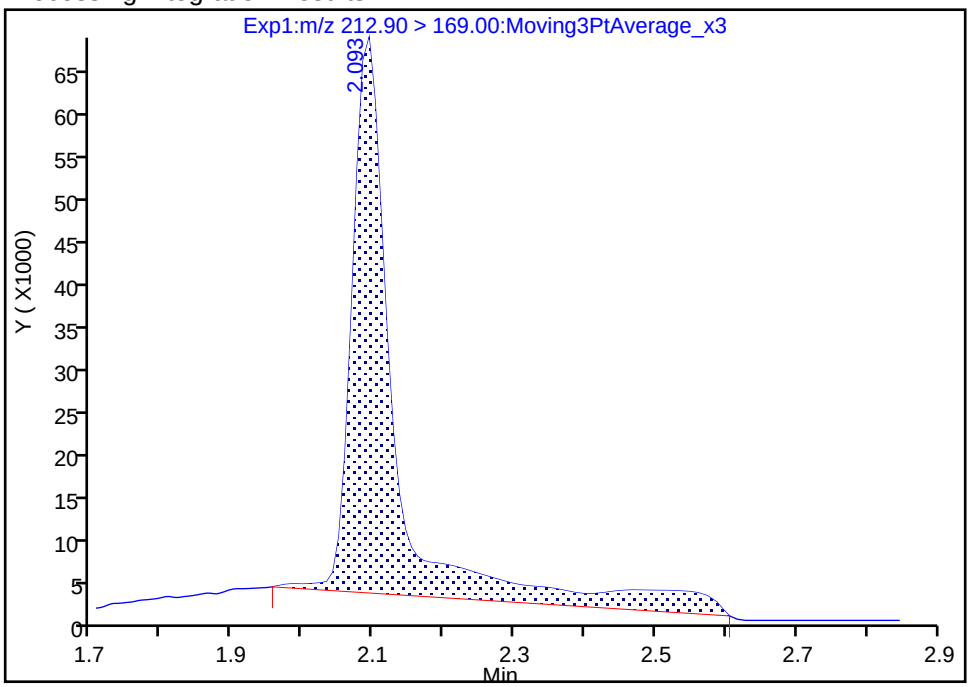
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

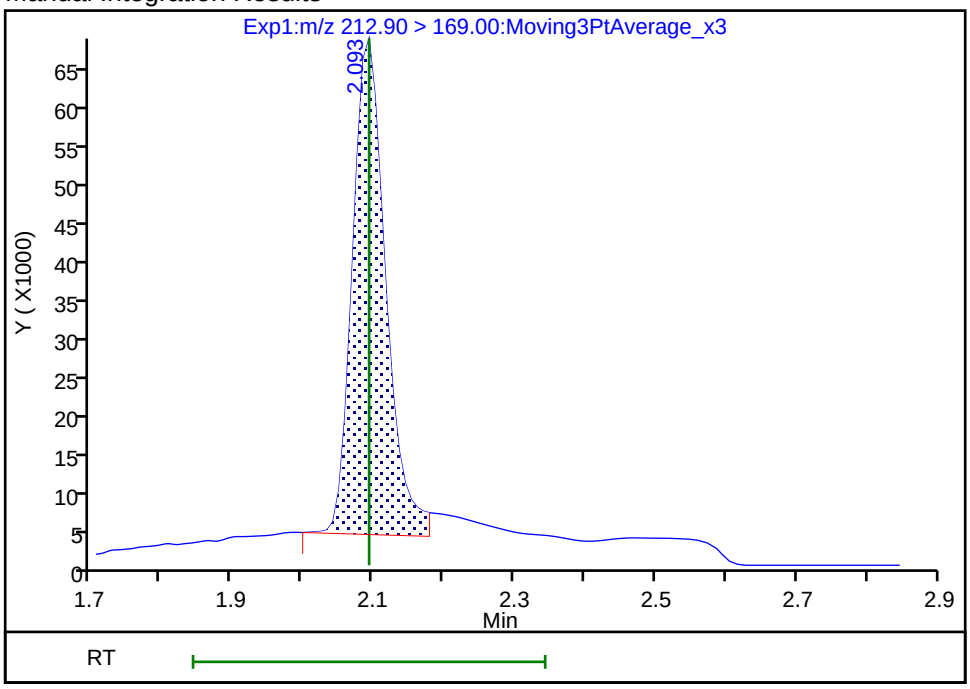
Processing Integration Results

RT: 2.09
Area: 278405
Amount: 0.171427
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 209144
Amount: 0.129097
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:45:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

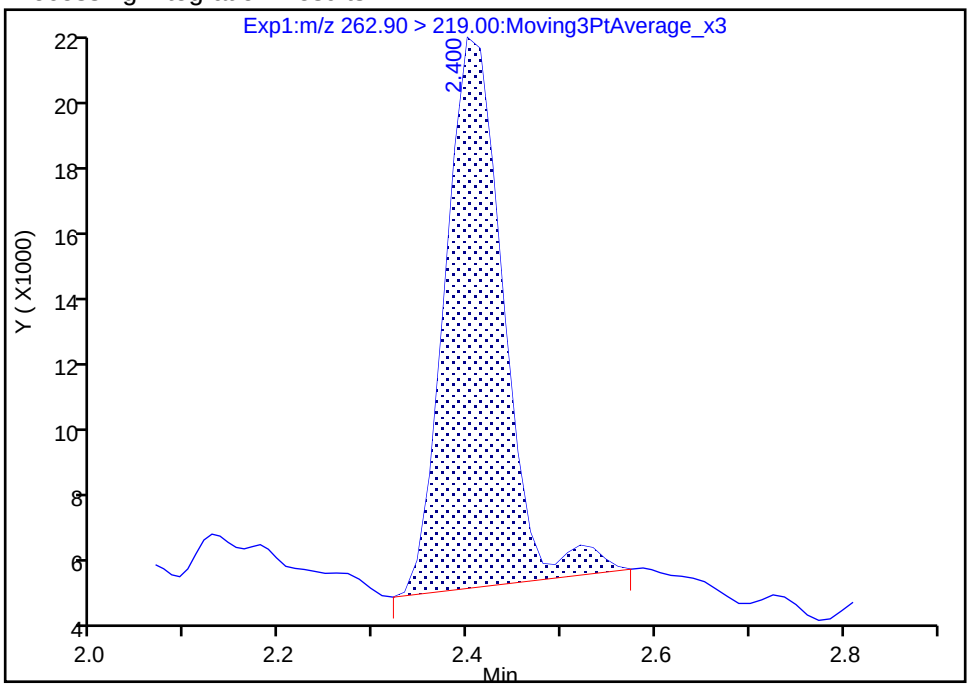
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

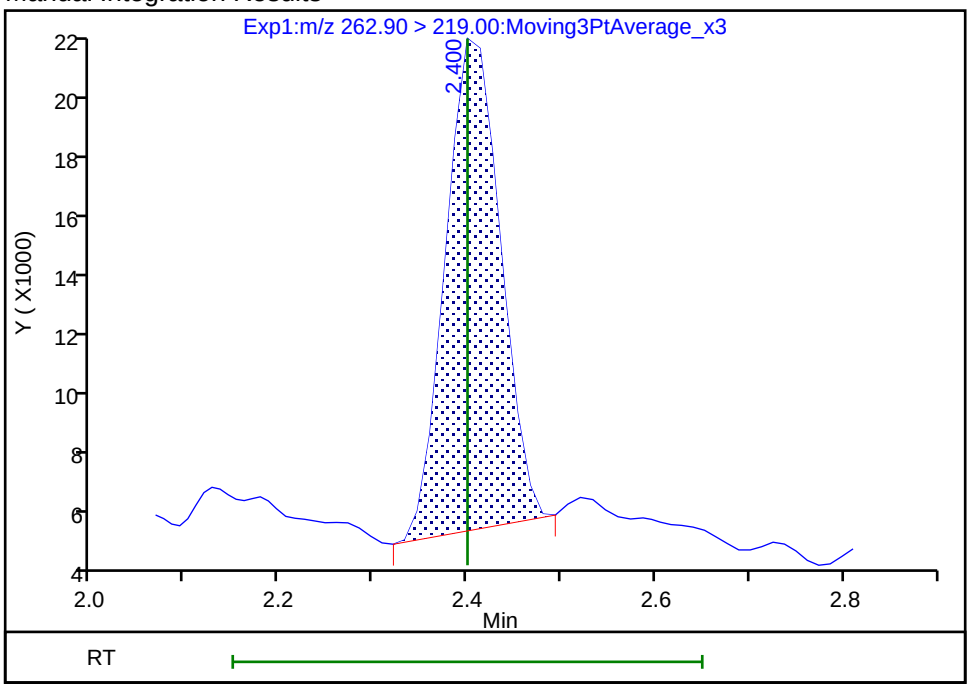
Processing Integration Results

RT: 2.40
Area: 69131
Amount: 0.053014
Amount Units: ng/ml



Manual Integration Results

RT: 2.40
Area: 64719
Amount: 0.049630
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:45:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

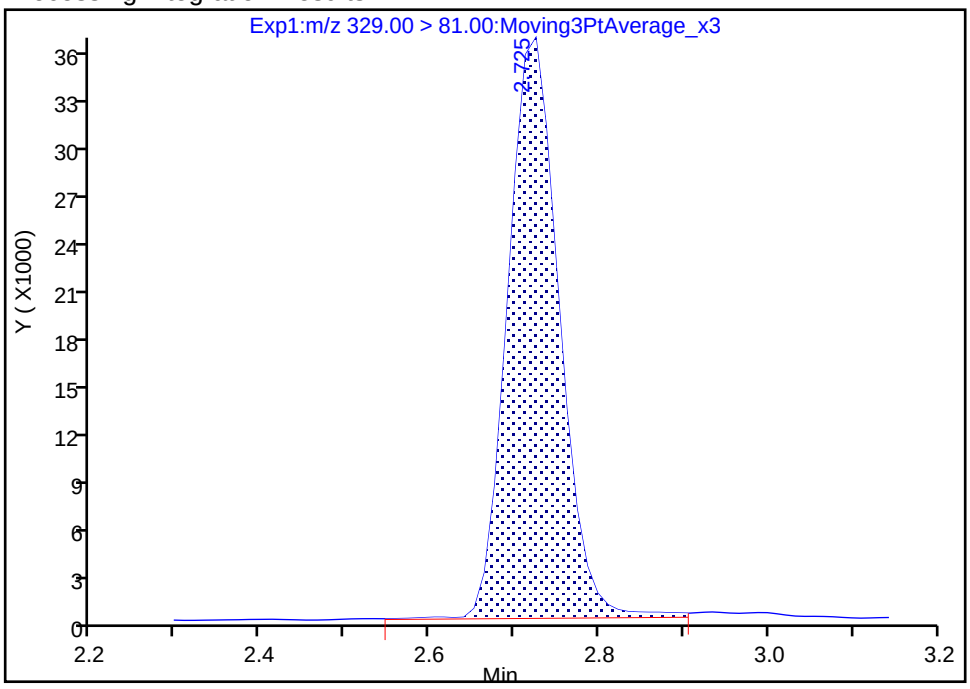
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

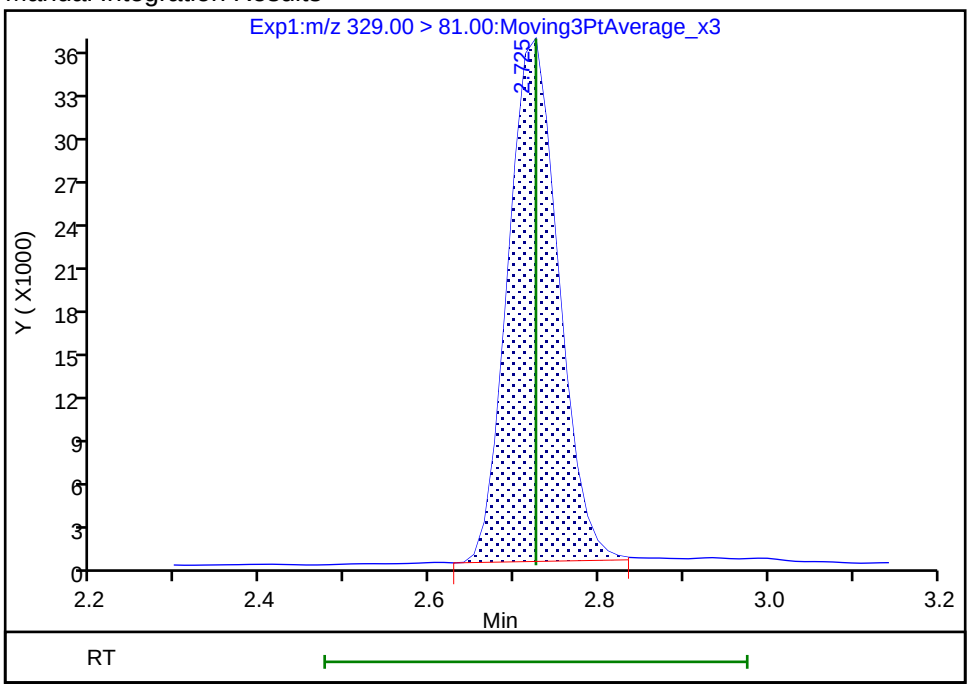
Processing Integration Results

RT: 2.73
Area: 153871
Amount: 1.122736
Amount Units: ng/ml



Manual Integration Results

RT: 2.73
Area: 150390
Amount: 1.110084
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:09:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

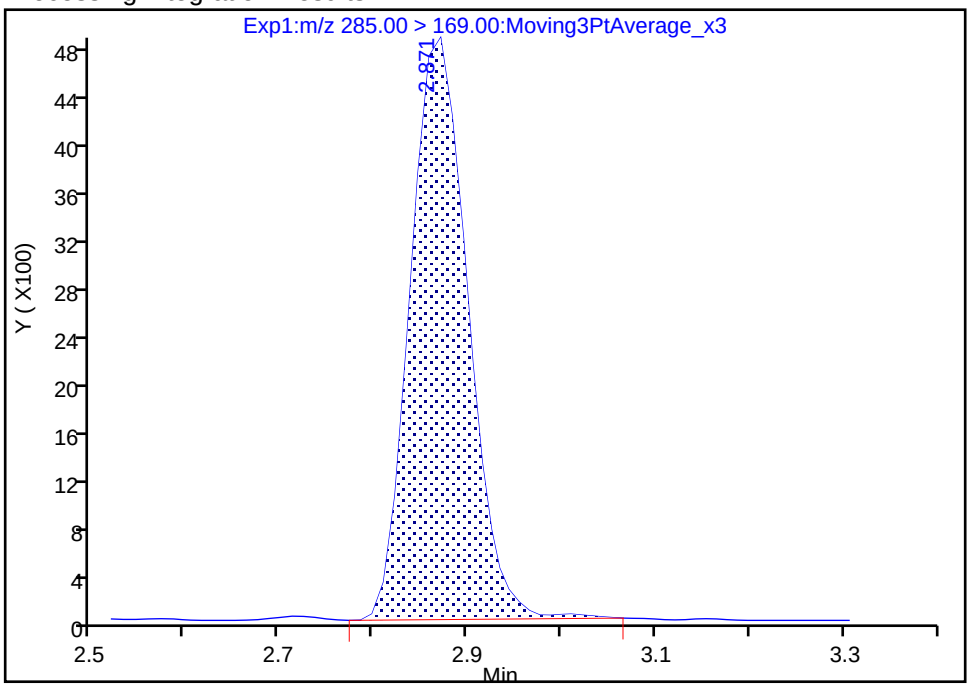
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

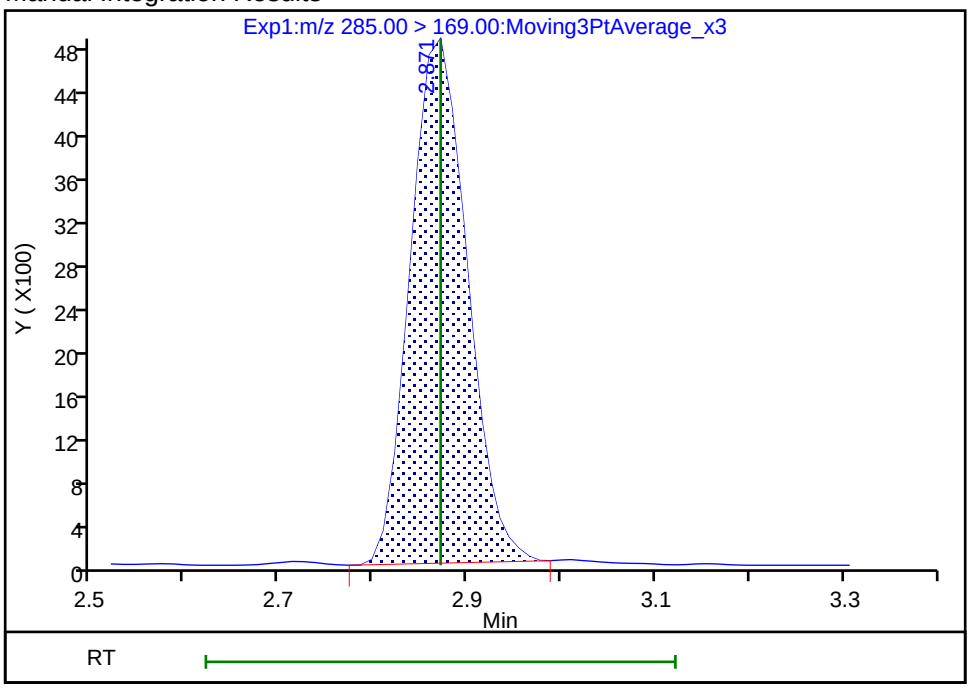
Processing Integration Results

RT: 2.87
Area: 20616
Amount: 0.094199
Amount Units: ng/ml



Manual Integration Results

RT: 2.87
Area: 20338
Amount: 0.092929
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:45:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

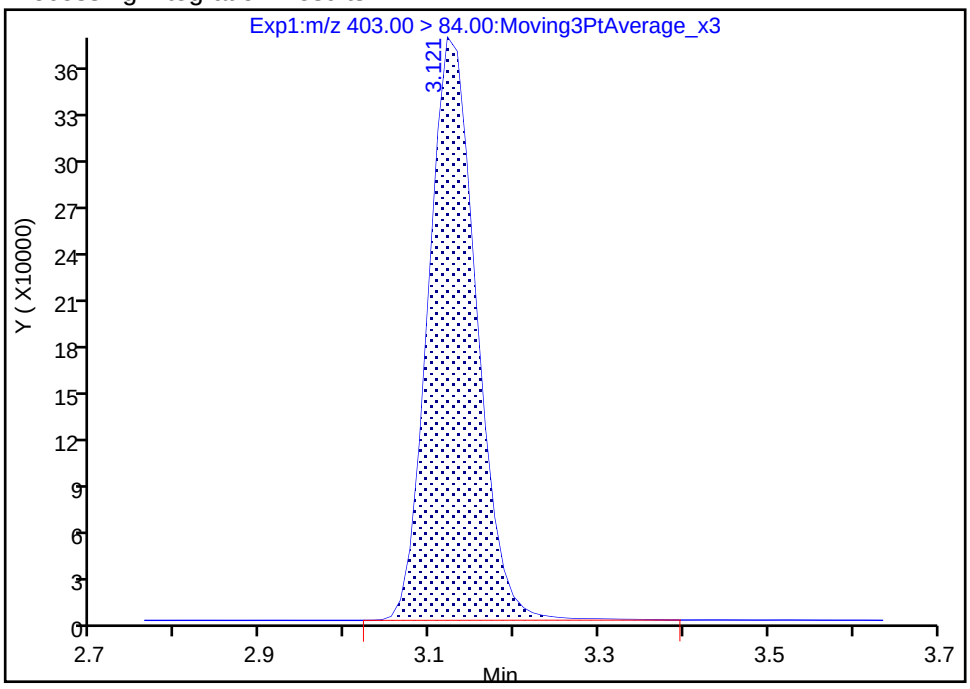
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

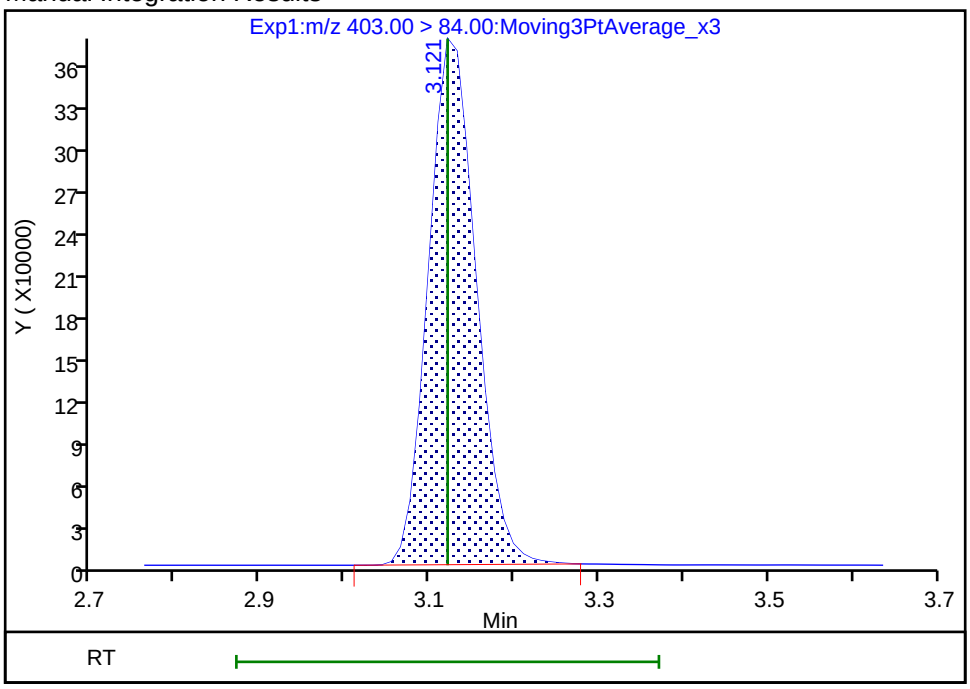
Processing Integration Results

RT: 3.12
Area: 1481670
Amount: 1.143253
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 1472316
Amount: 1.149233
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:09:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

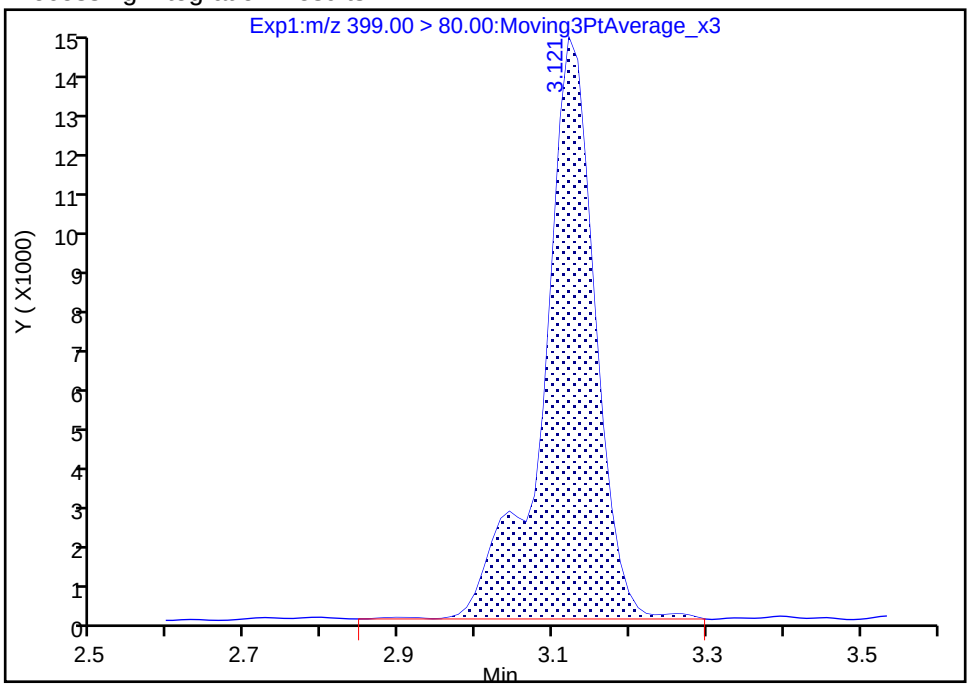
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

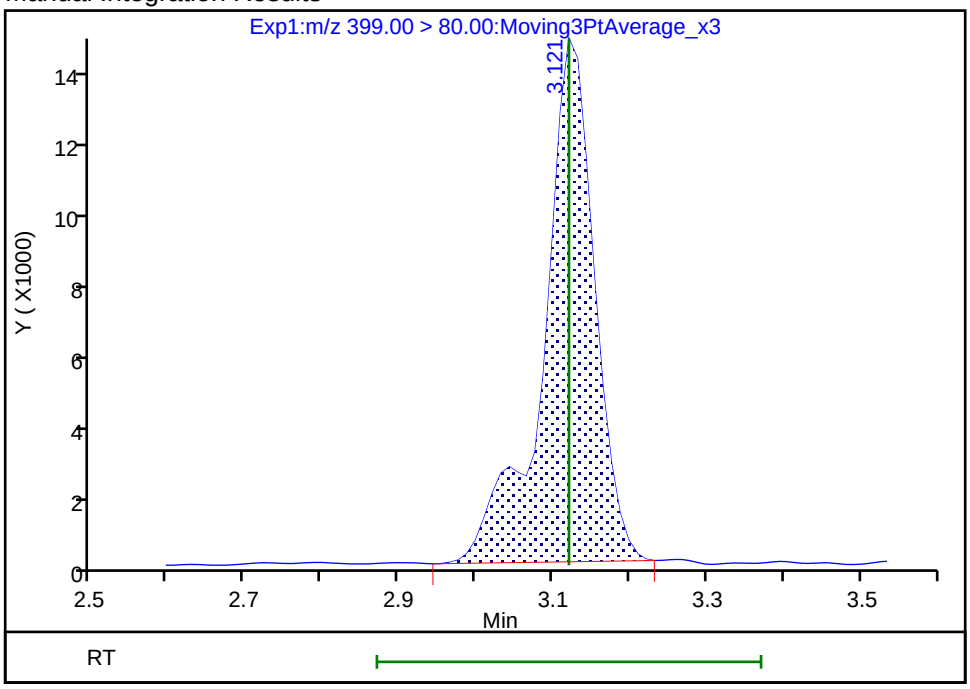
Processing Integration Results

RT: 3.12
Area: 68814
Amount: 0.049688
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 67459
Amount: 0.049019
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:45:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

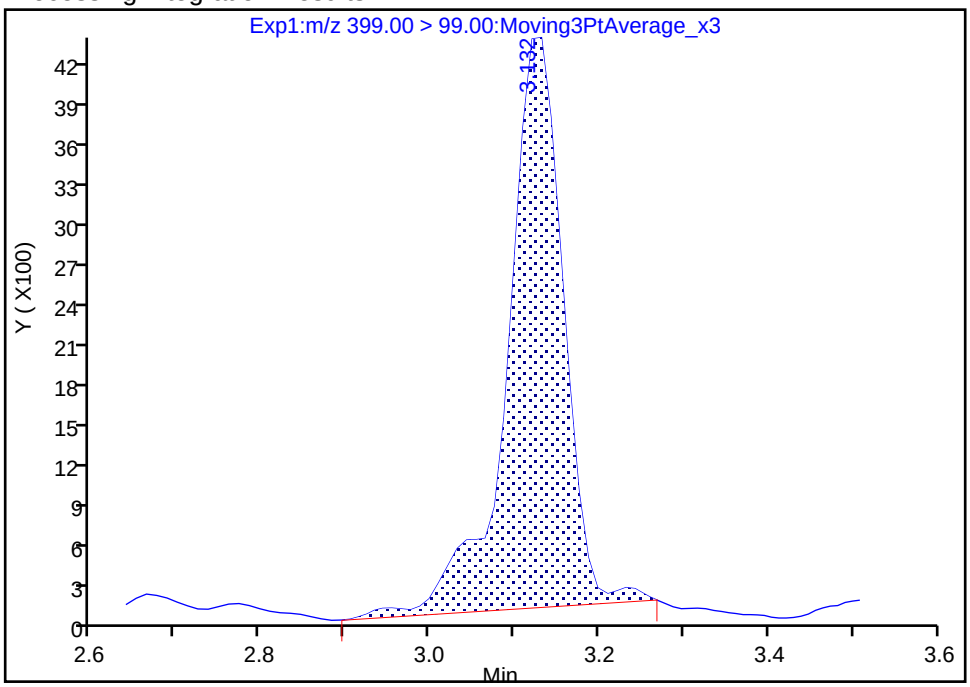
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

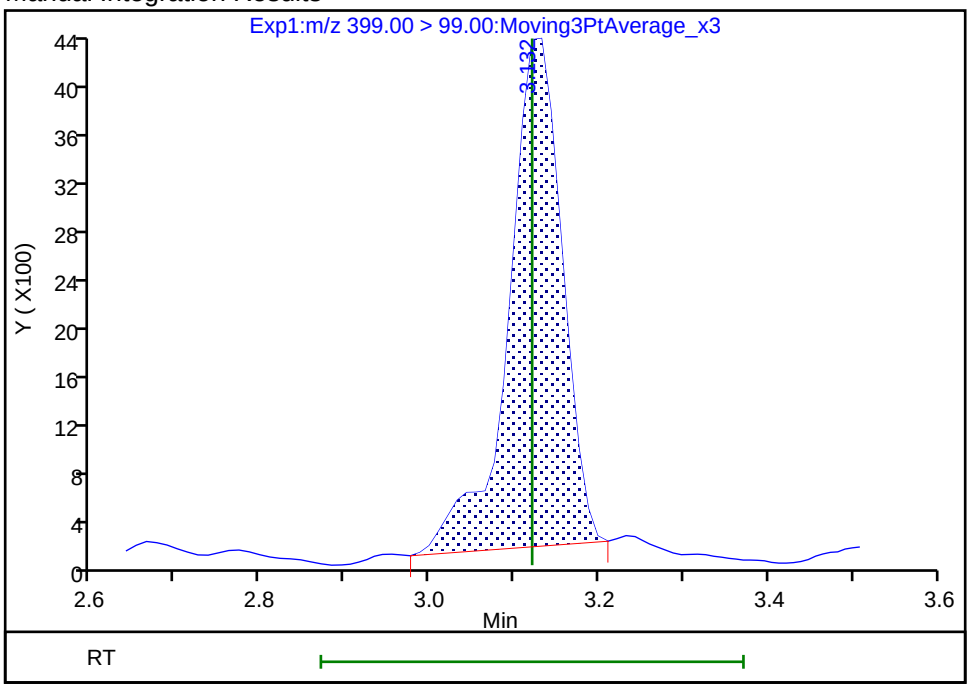
Processing Integration Results

RT: 3.13
Area: 19586
Amount: 0.049688
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 18343
Amount: 0.049019
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:45:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

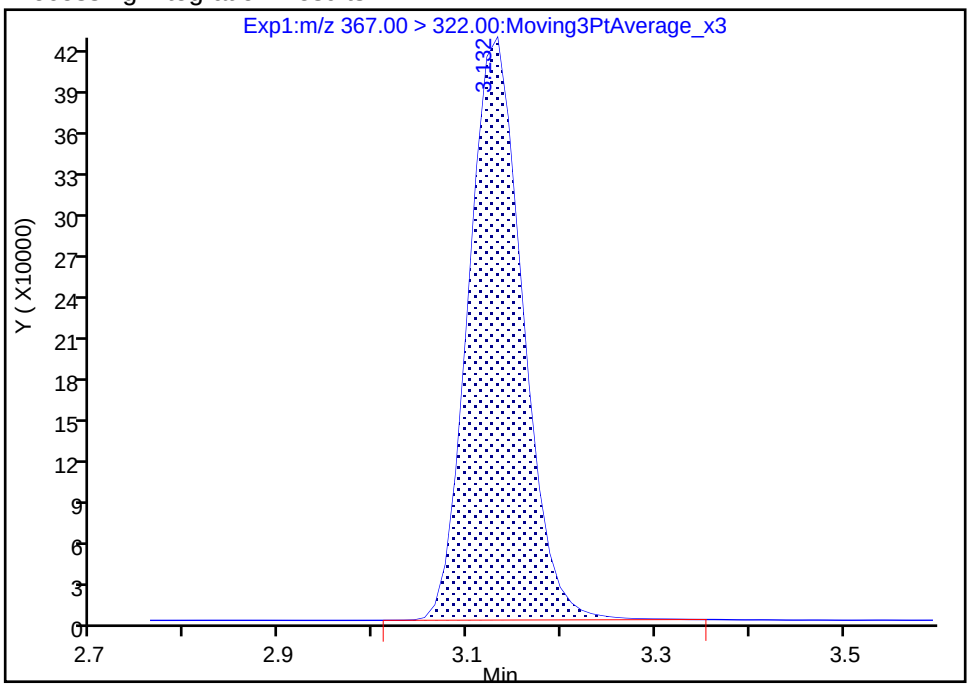
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d				
Injection Date:	13-Jun-2022 17:41:43	Instrument ID:	LC812		
Lims ID:	CCVLIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

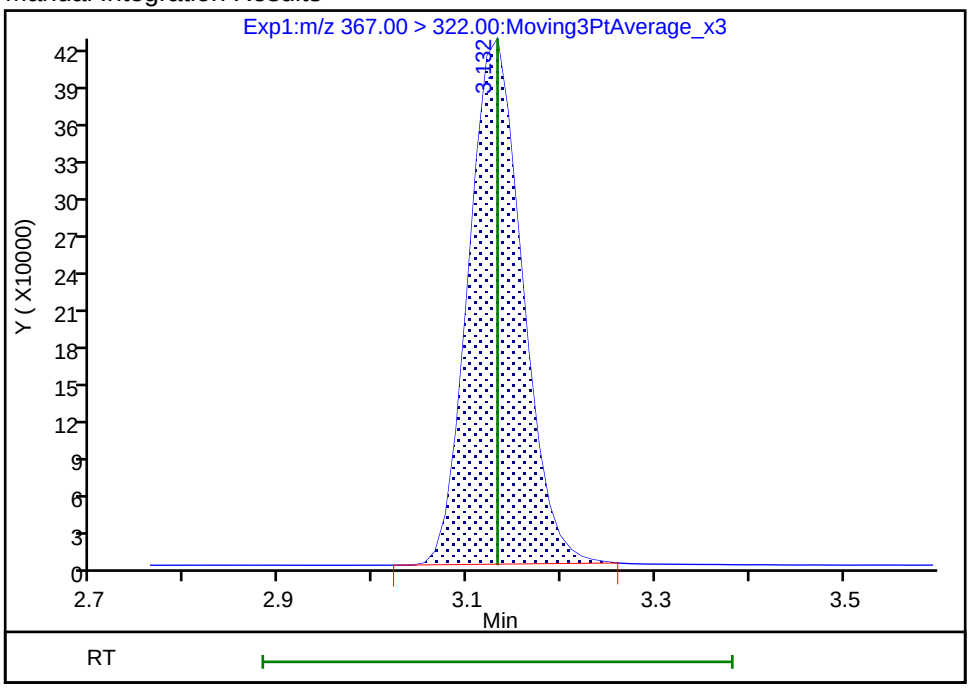
Processing Integration Results

RT: 3.13
Area: 1692953
Amount: 1.342779
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 1680676
Amount: 1.348527
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:09:28

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

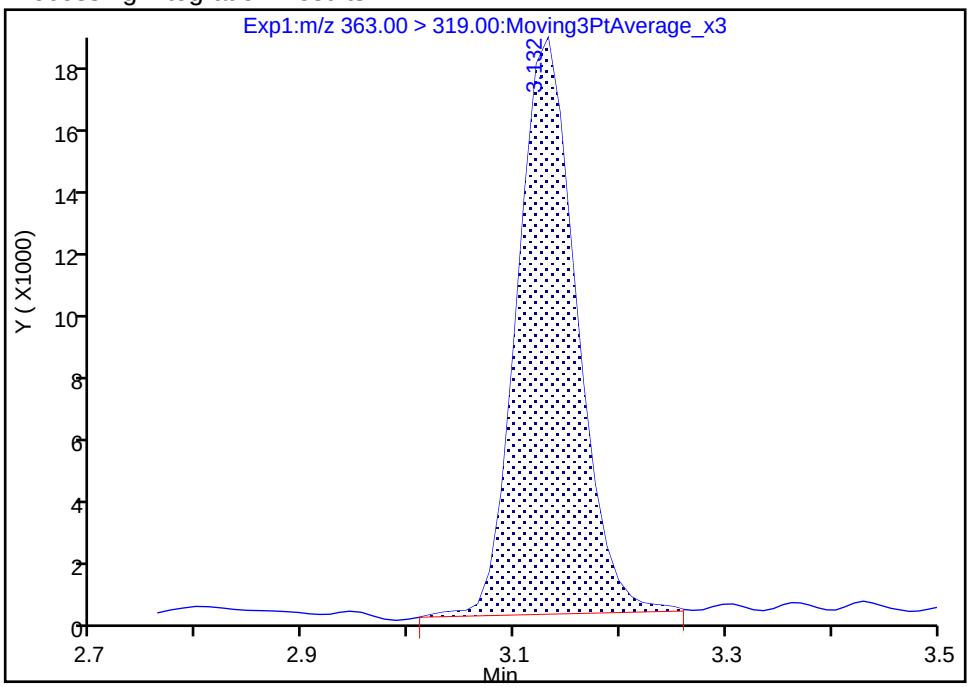
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

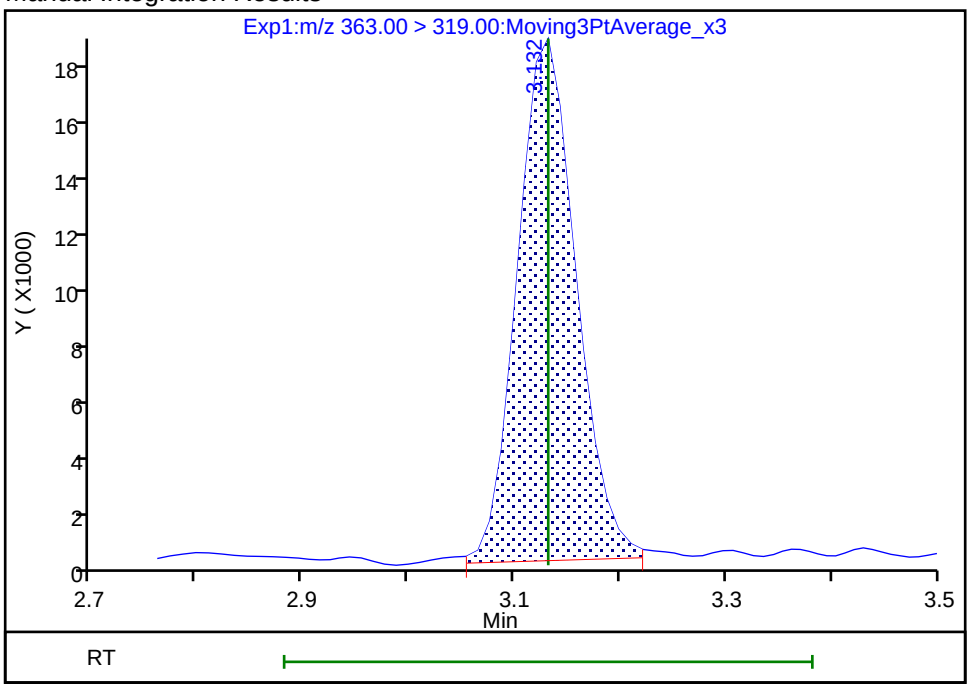
Processing Integration Results

RT: 3.13
Area: 71005
Amount: 0.051879
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 70583
Amount: 0.051947
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:46:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

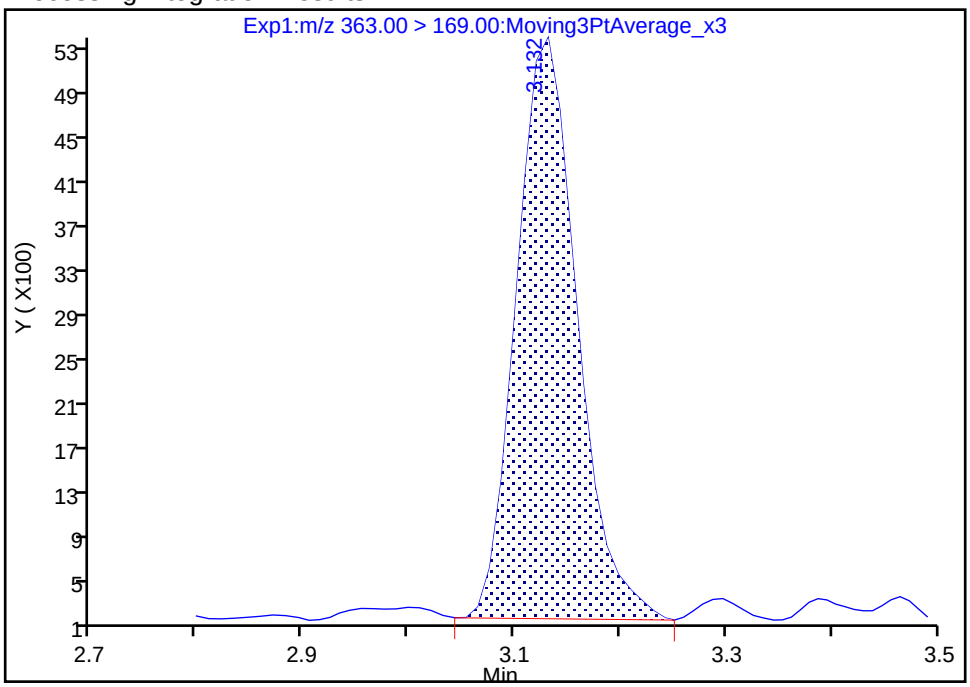
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

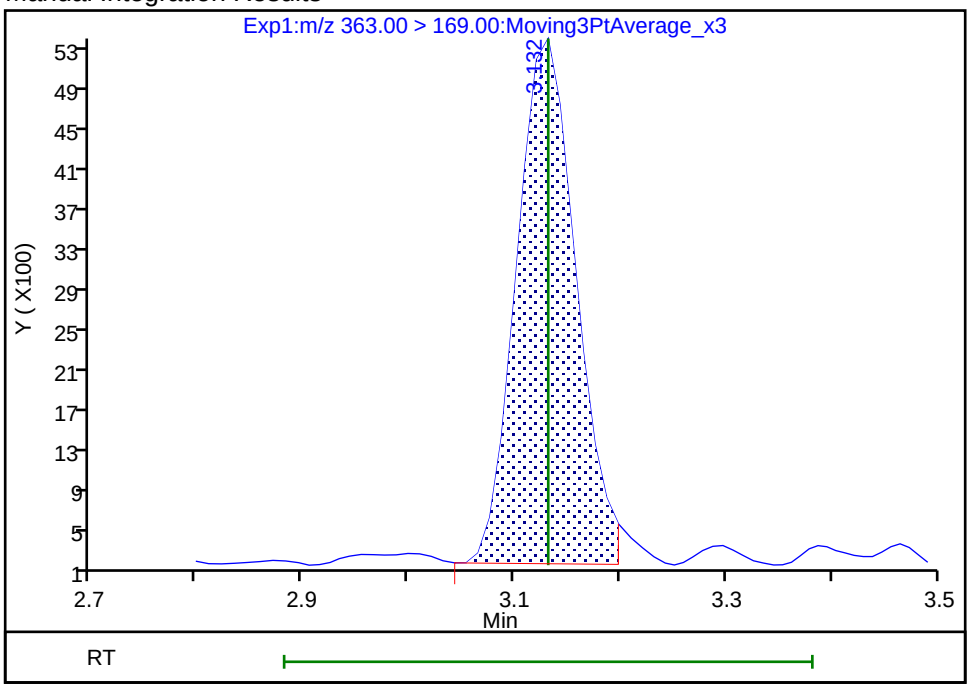
Processing Integration Results

RT: 3.13
Area: 20908
Amount: 0.051879
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 20411
Amount: 0.051947
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:46:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

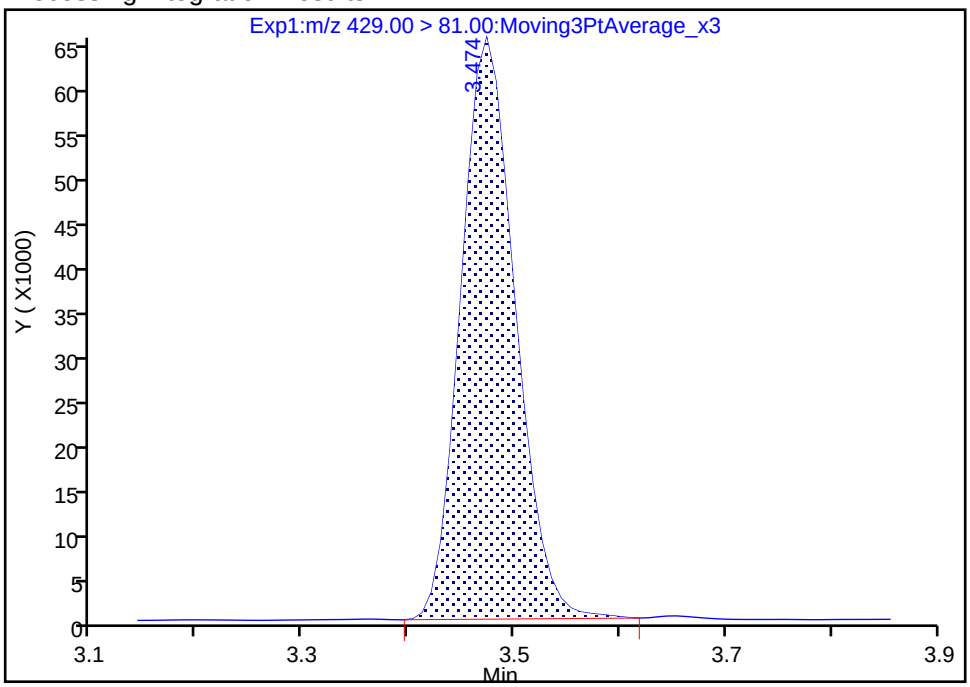
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d				
Injection Date:	13-Jun-2022 17:41:43	Instrument ID:	LC812		
Lims ID:	CCVLIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 12 M2-6:2 FTS, CAS: STL02279

Signal: 1

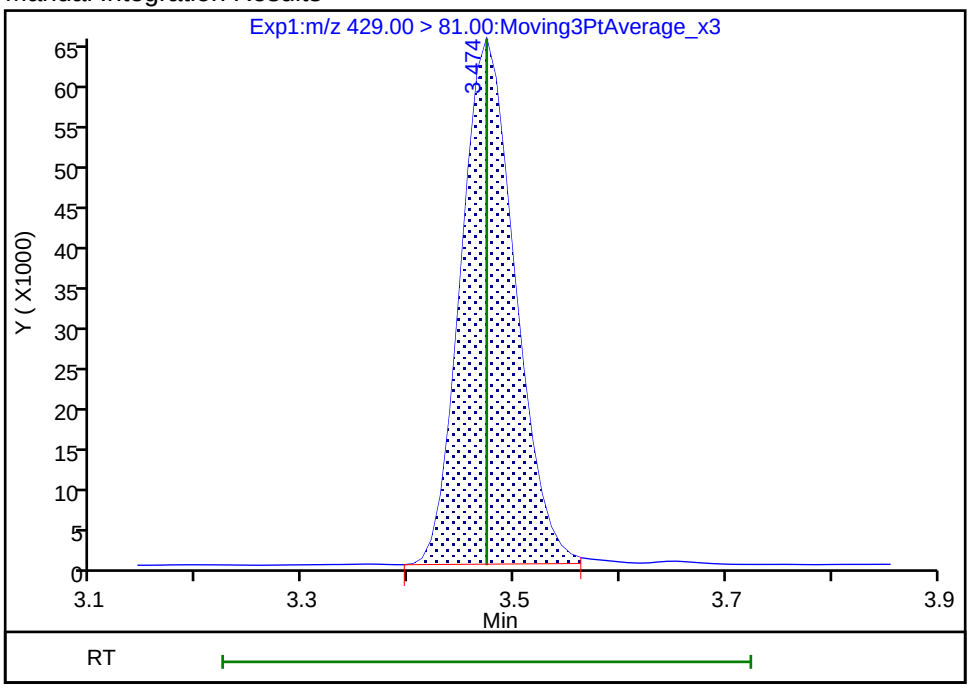
Processing Integration Results

RT: 3.47
Area: 232087
Amount: 1.097770
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 231074
Amount: 1.105676
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:09:39

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

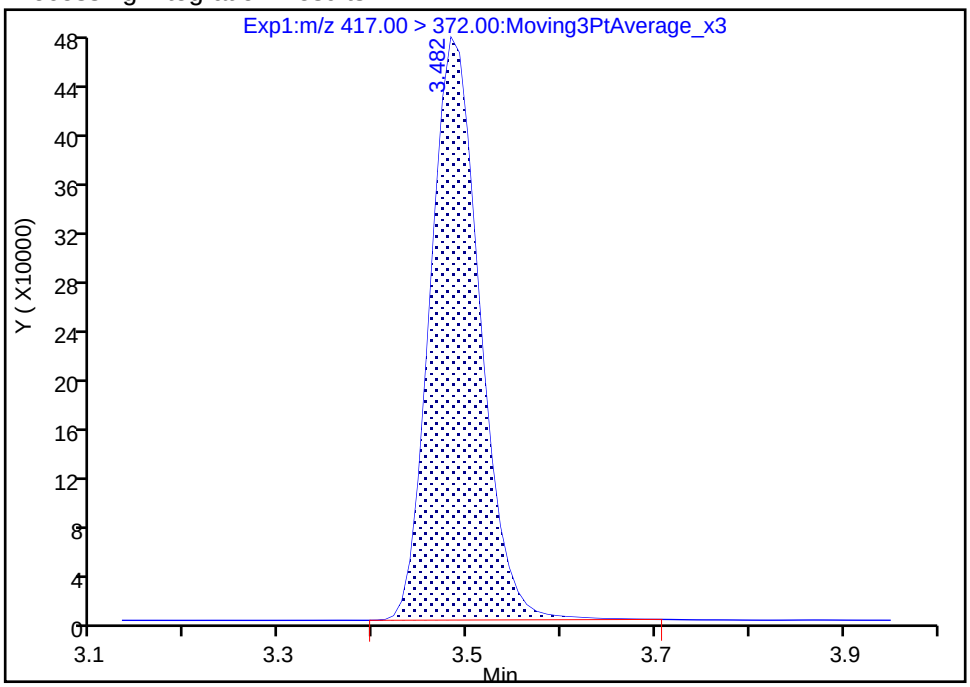
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

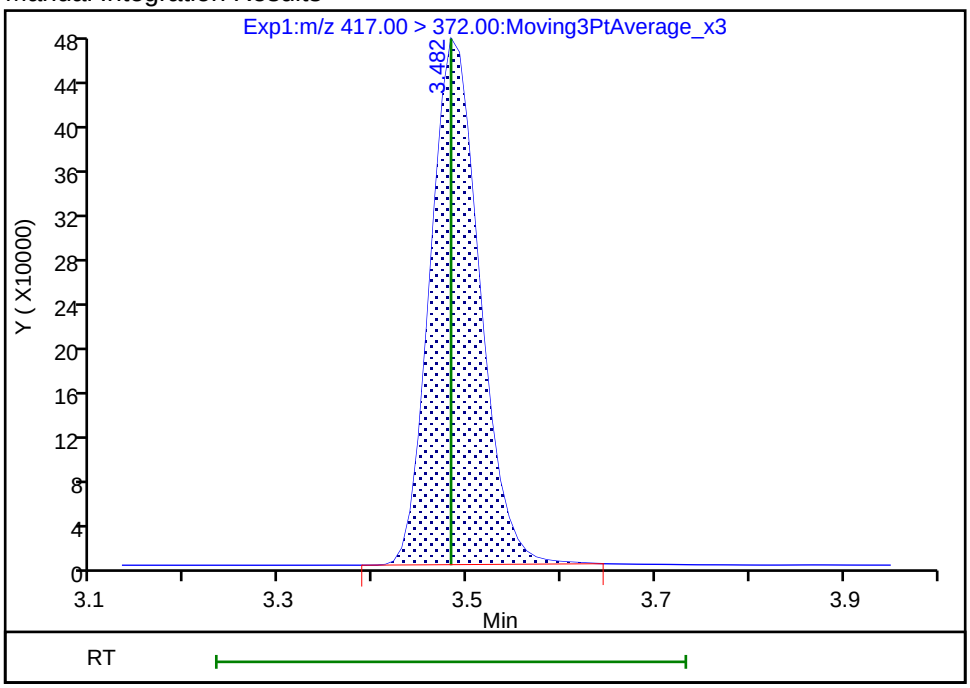
Processing Integration Results

RT: 3.48
Area: 1728848
Amount: 1.319185
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 1721810
Amount: 1.313814
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:09:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

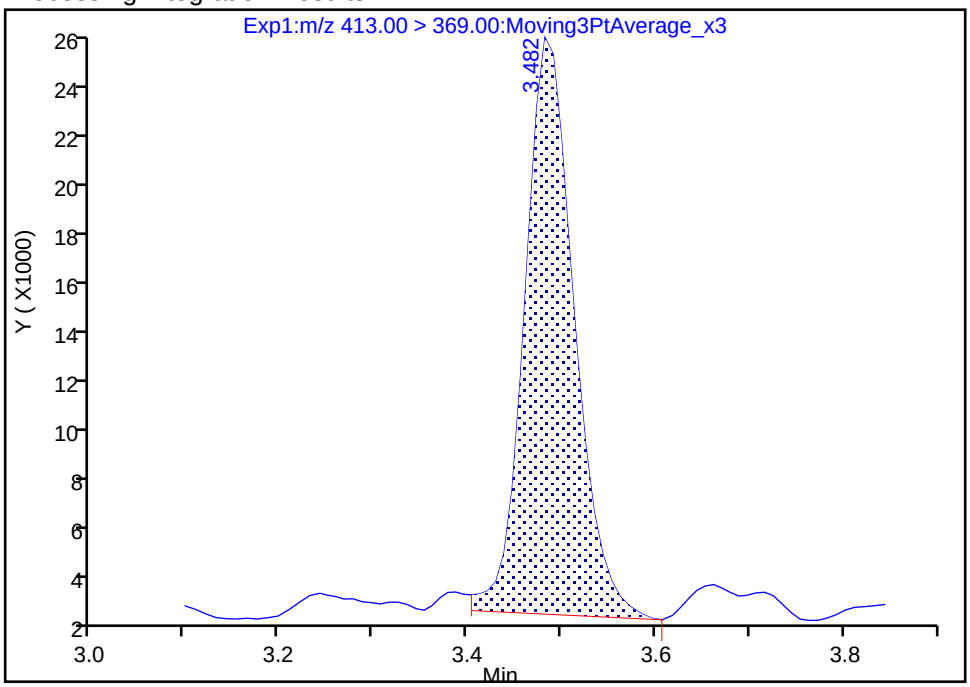
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

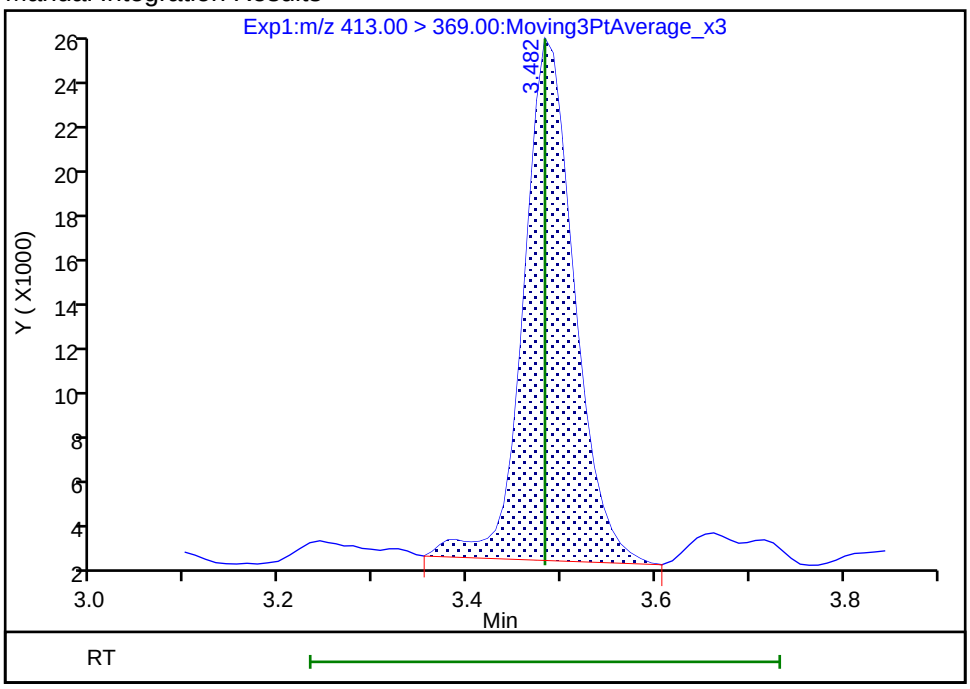
Processing Integration Results

RT: 3.48
Area: 83801
Amount: 0.054101
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 85825
Amount: 0.055634
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:46:16
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

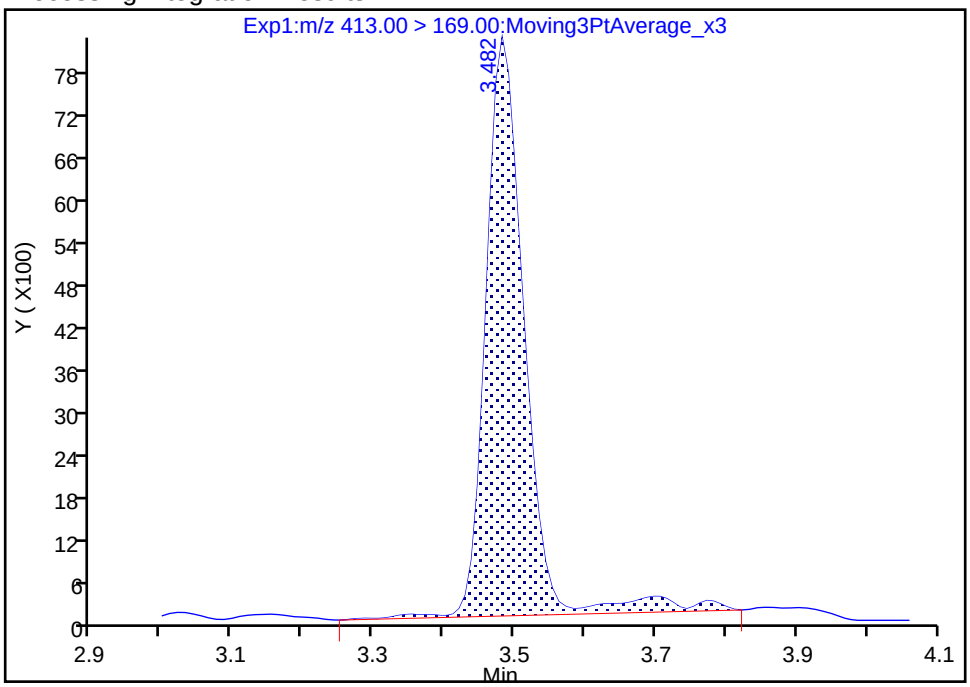
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

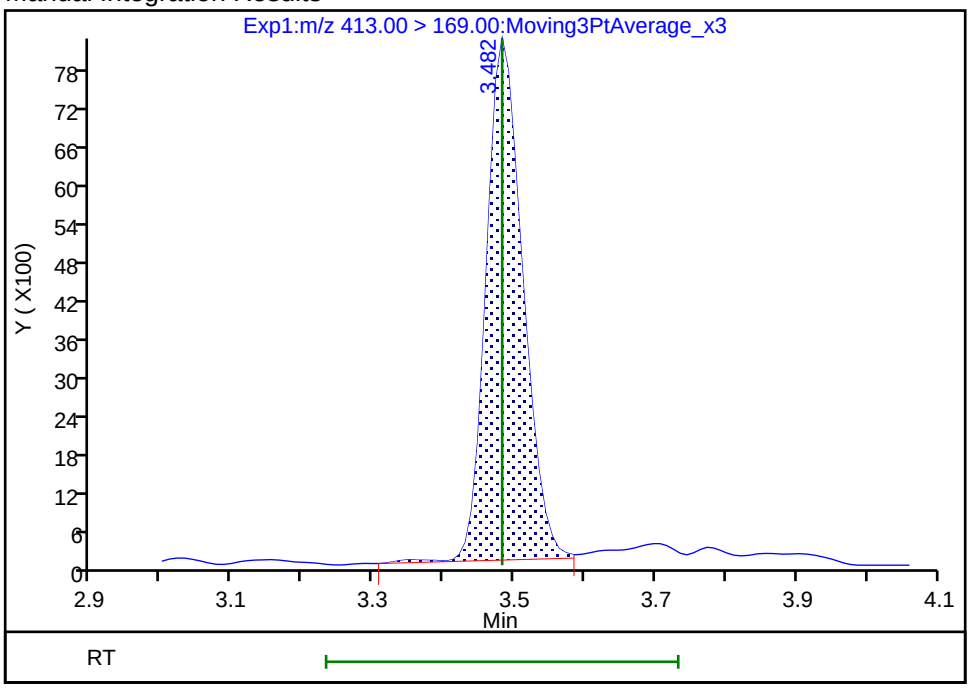
Processing Integration Results

RT: 3.48
Area: 31439
Amount: 0.054101
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 29411
Amount: 0.055634
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:46:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

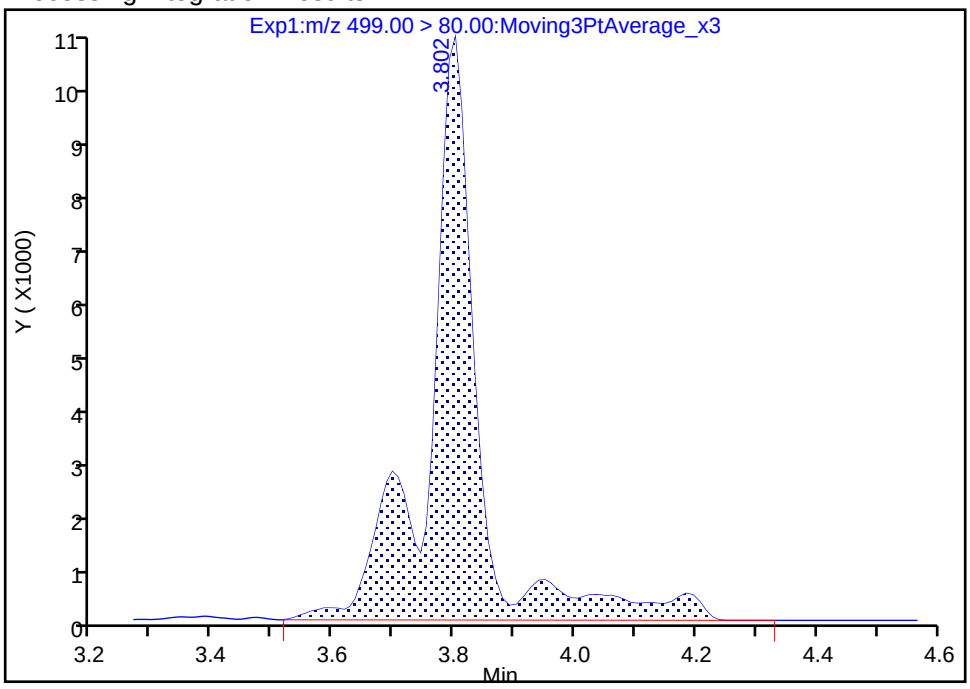
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

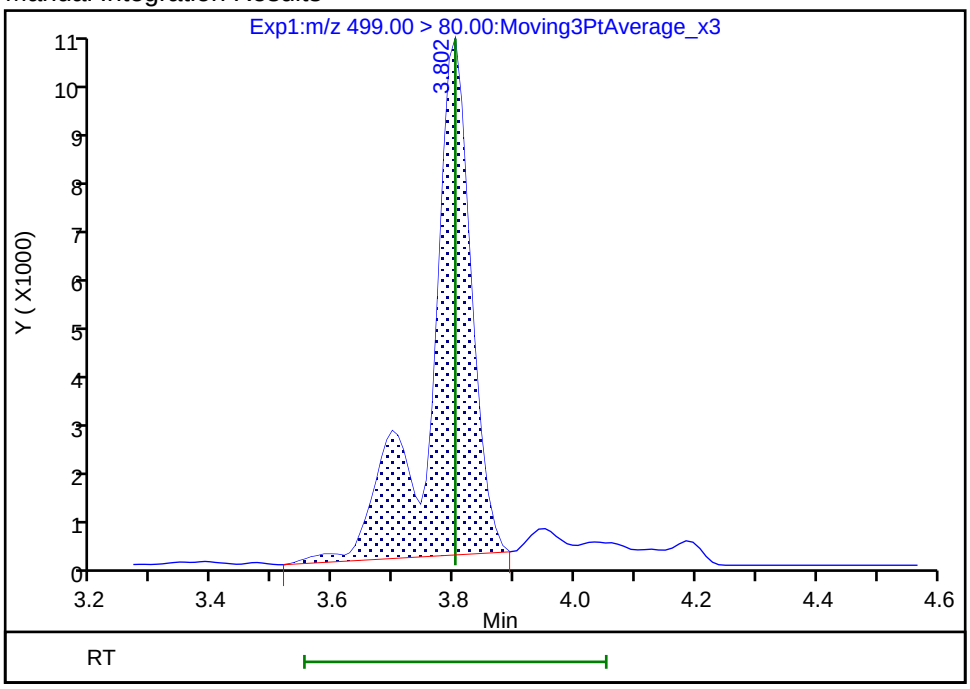
Processing Integration Results

RT: 3.80
Area: 57954
Amount: 0.057615
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 47119
Amount: 0.046844
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:46:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

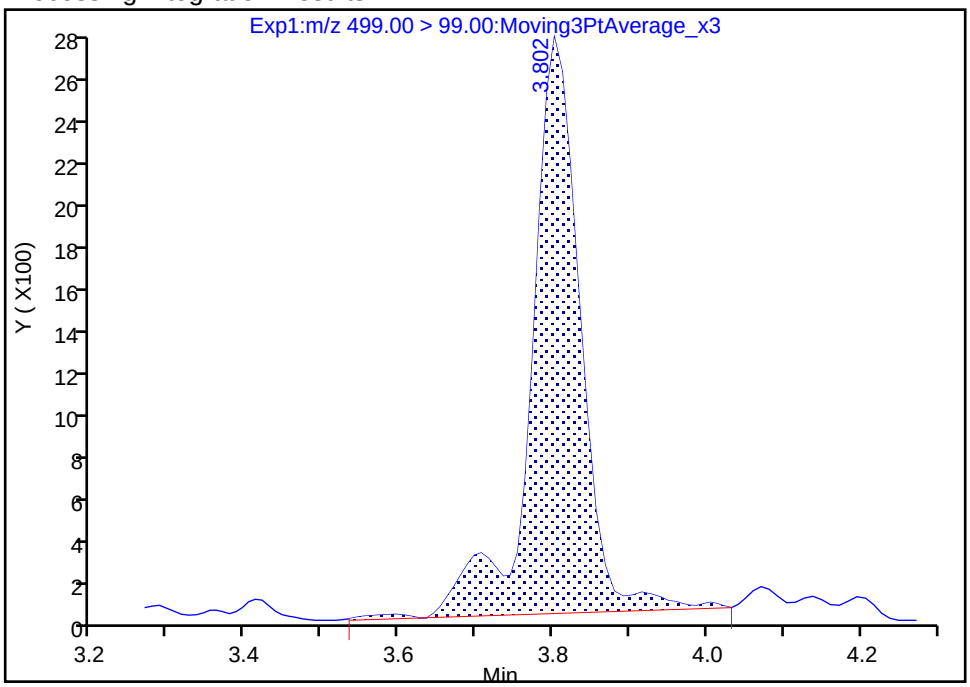
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

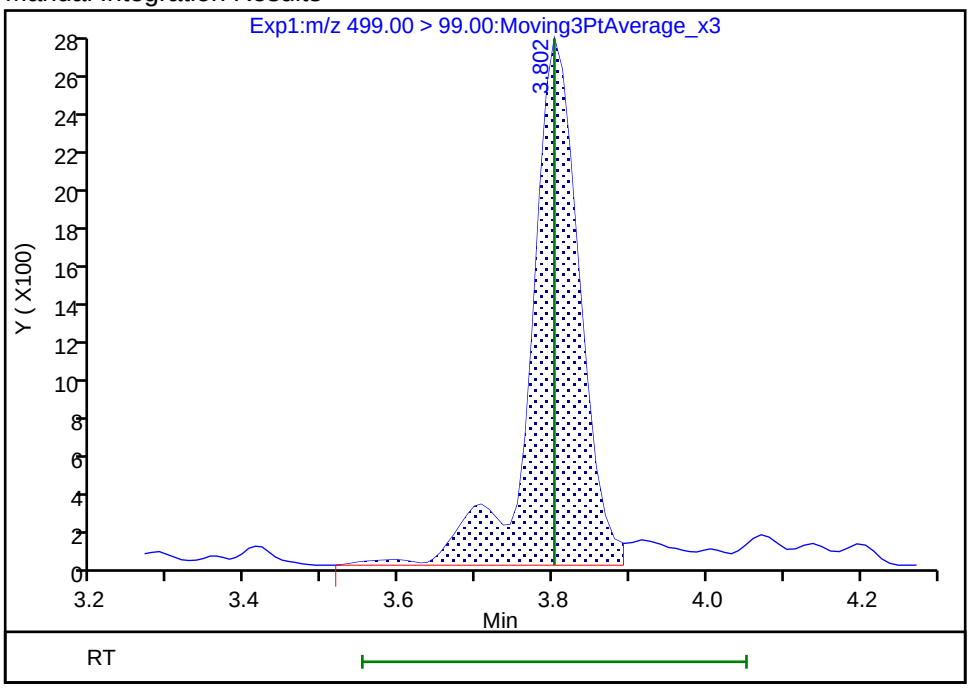
Processing Integration Results

RT: 3.80
Area: 12008
Amount: 0.057615
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 12110
Amount: 0.046844
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:47:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

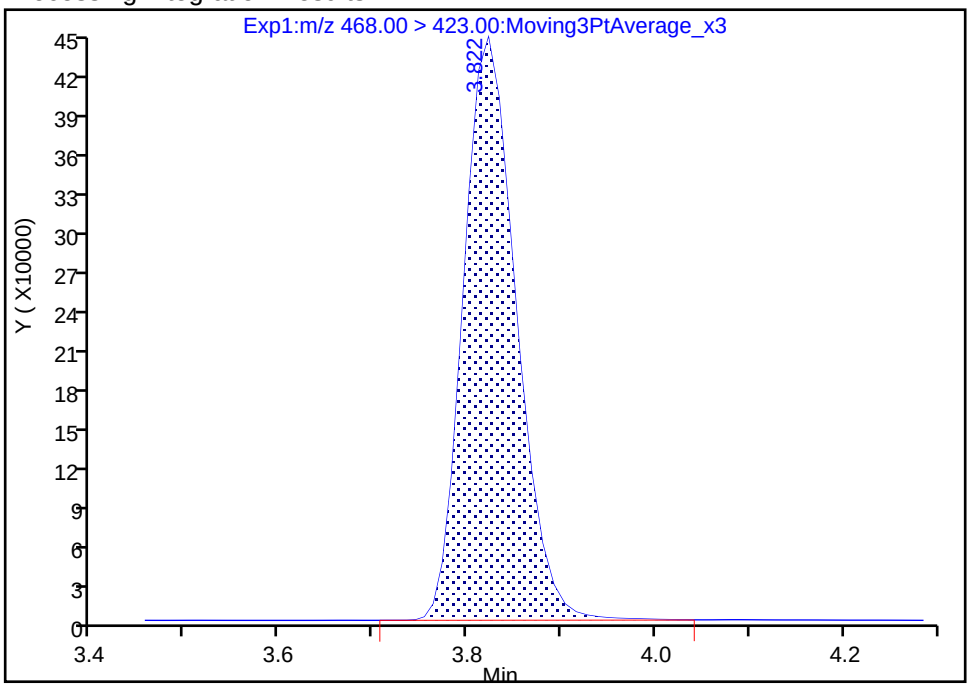
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

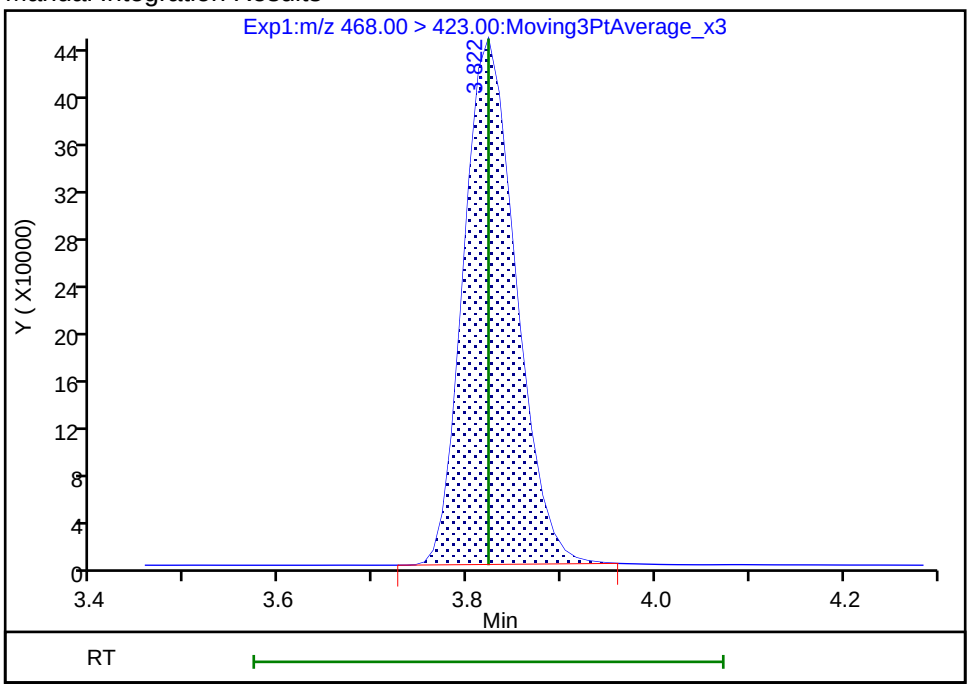
Processing Integration Results

RT: 3.82
Area: 1752367
Amount: 1.230545
Amount Units: ng/ml



Manual Integration Results

RT: 3.82
Area: 1739598
Amount: 1.221578
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:10:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

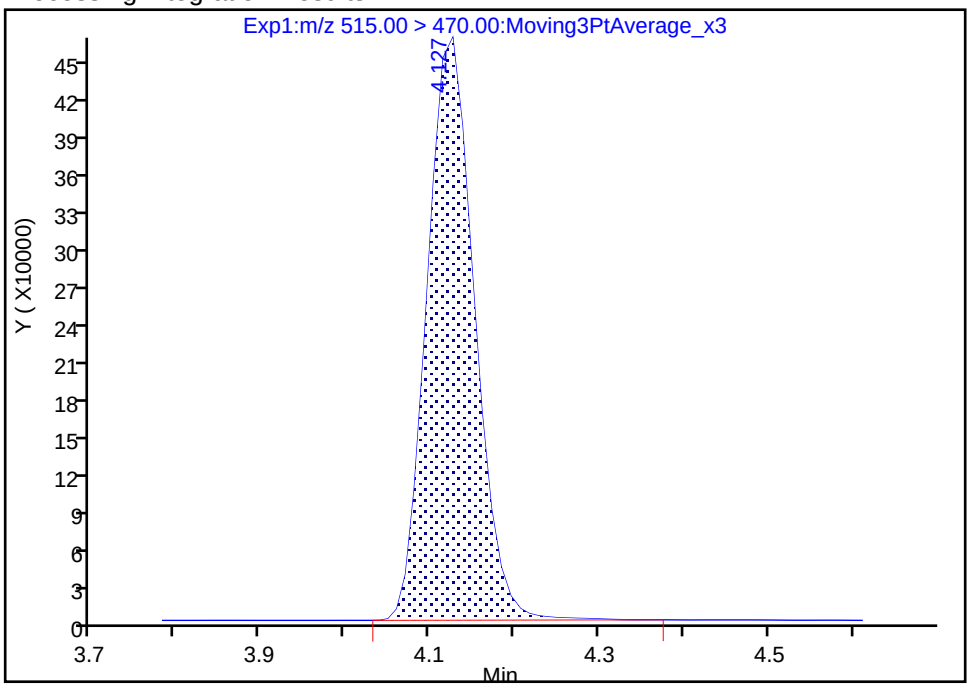
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

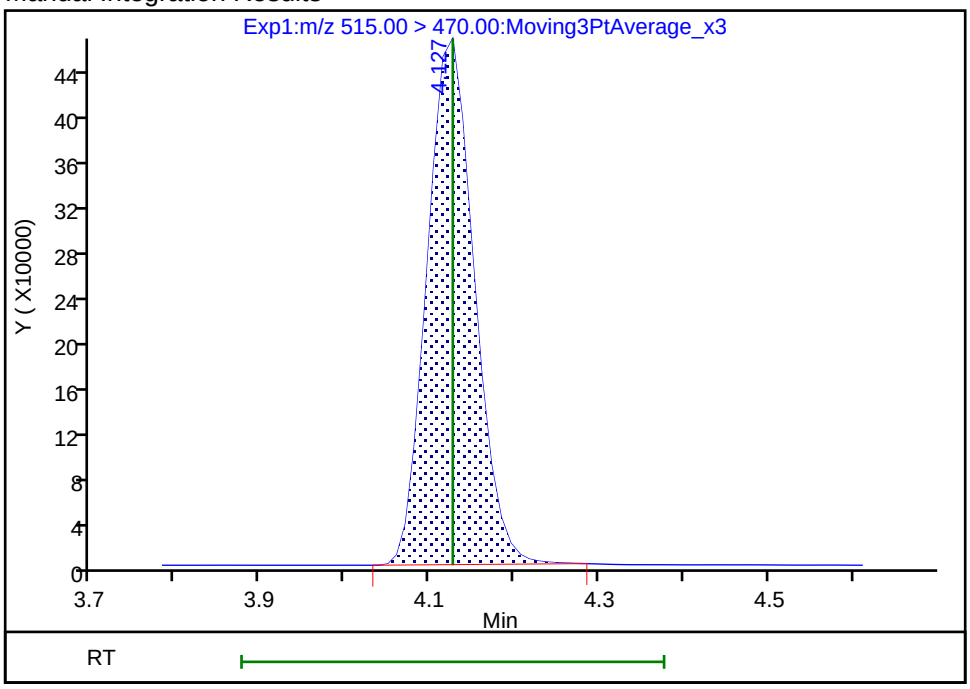
Processing Integration Results

RT: 4.13
Area: 1812828
Amount: 1.322040
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 1802700
Amount: 1.314654
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:10:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

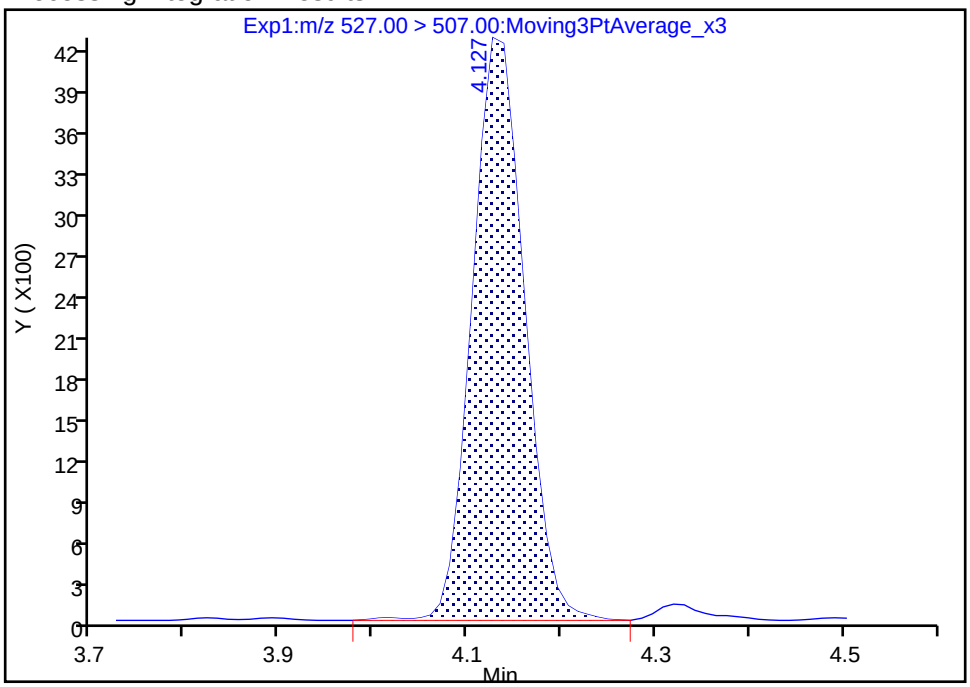
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

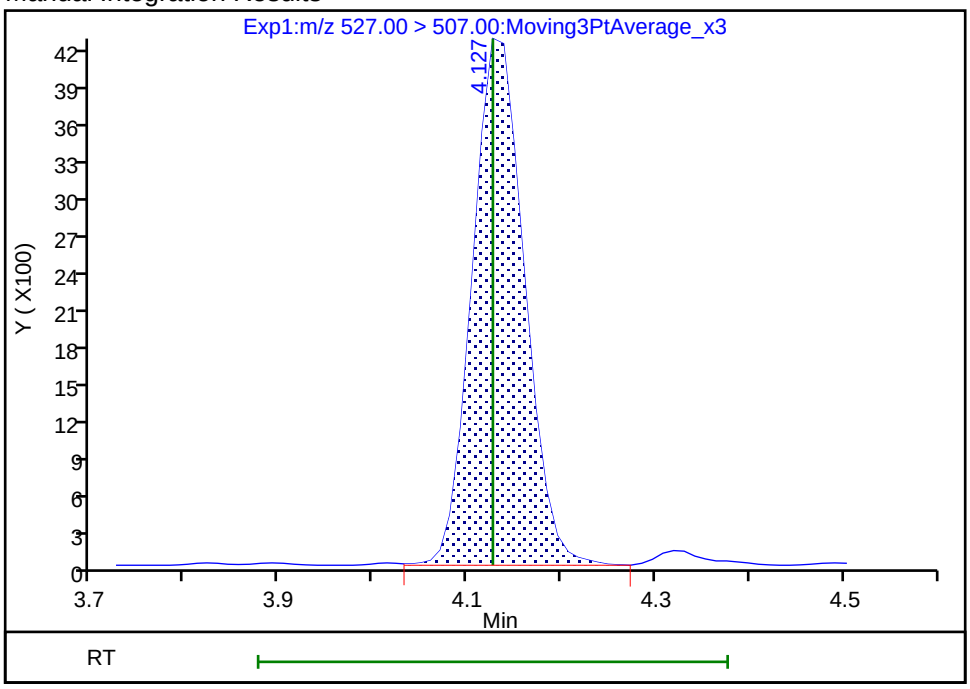
Processing Integration Results

RT: 4.13
Area: 16494
Amount: 0.058741
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 16458
Amount: 0.058613
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:47:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

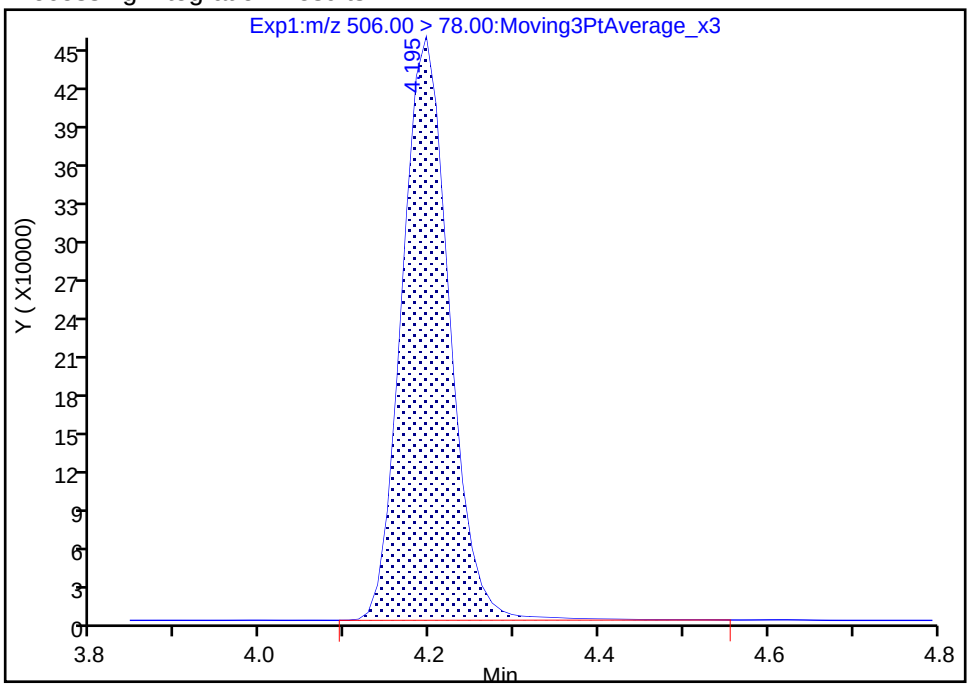
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

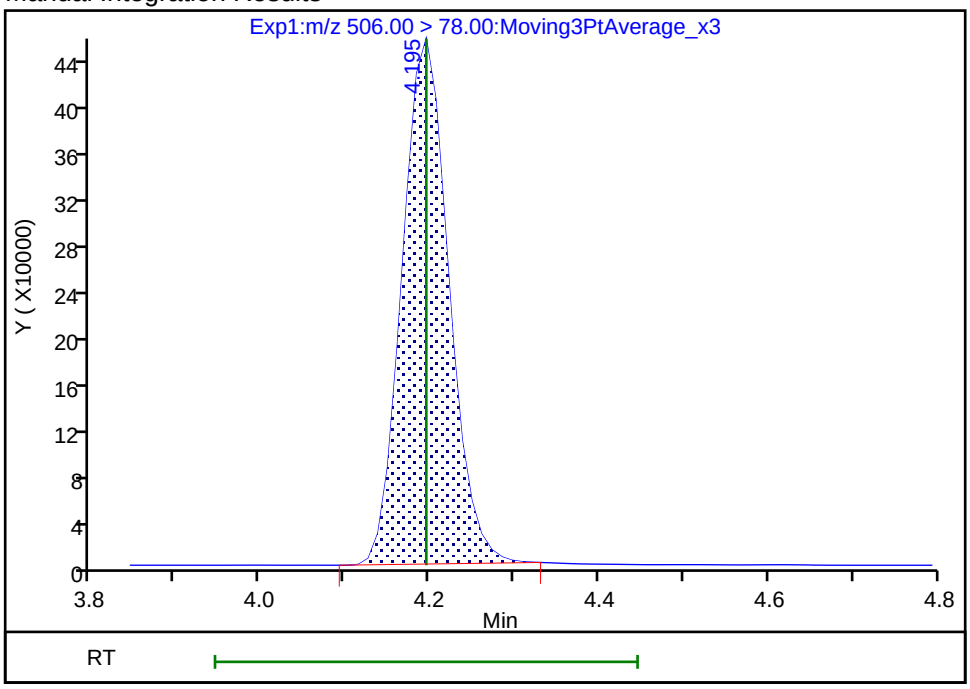
Processing Integration Results

RT: 4.20
Area: 1777664
Amount: 1.164808
Amount Units: ng/ml



Manual Integration Results

RT: 4.20
Area: 1753042
Amount: 1.162019
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:10:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

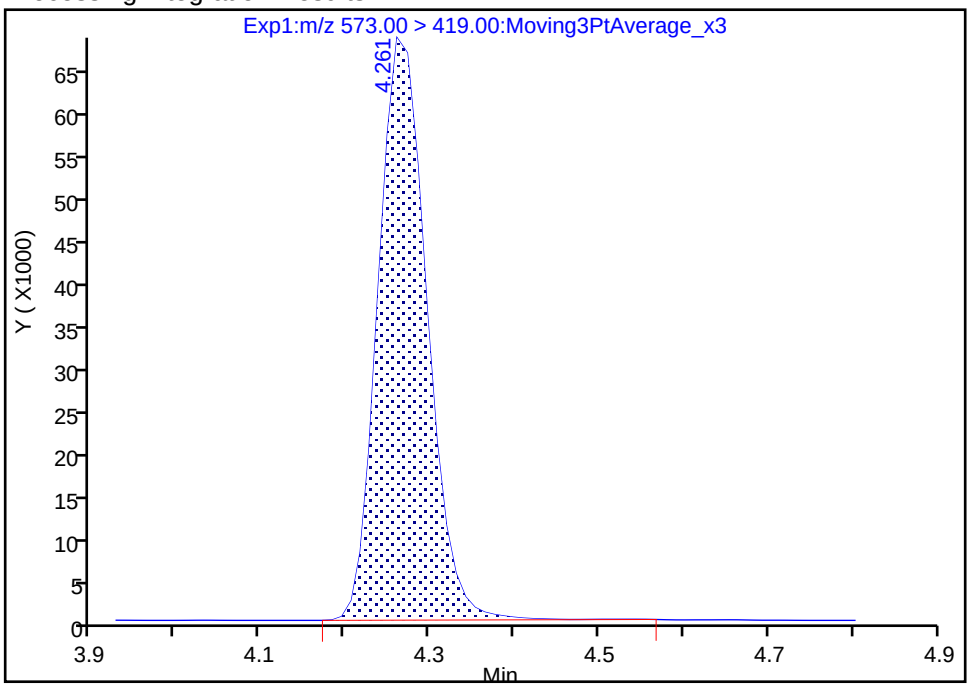
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

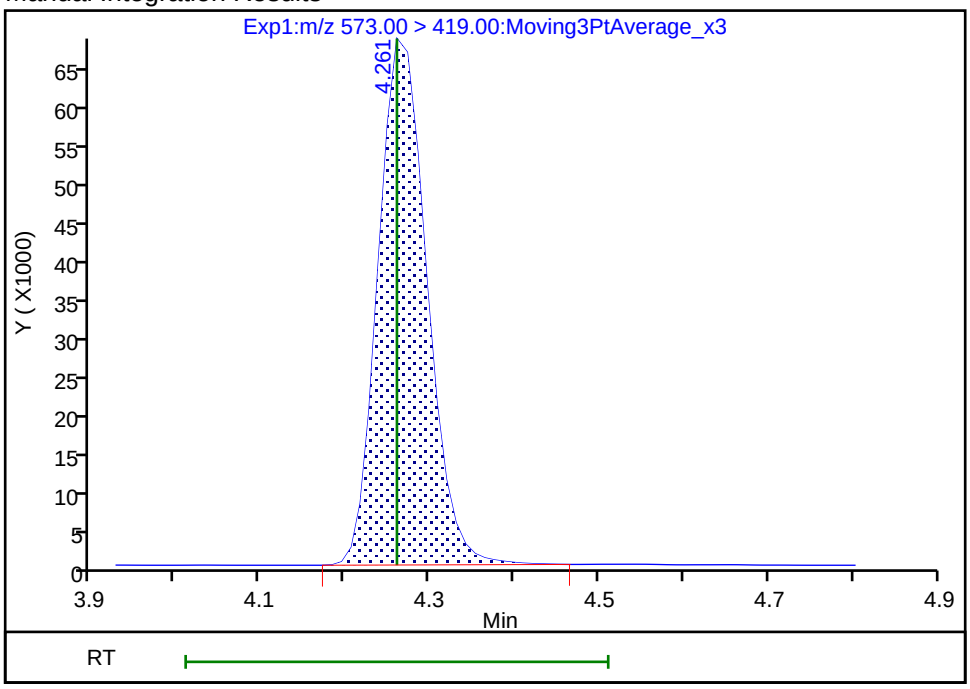
Processing Integration Results

RT: 4.26
Area: 273918
Amount: 1.487674
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 273486
Amount: 1.502583
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:42:16
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

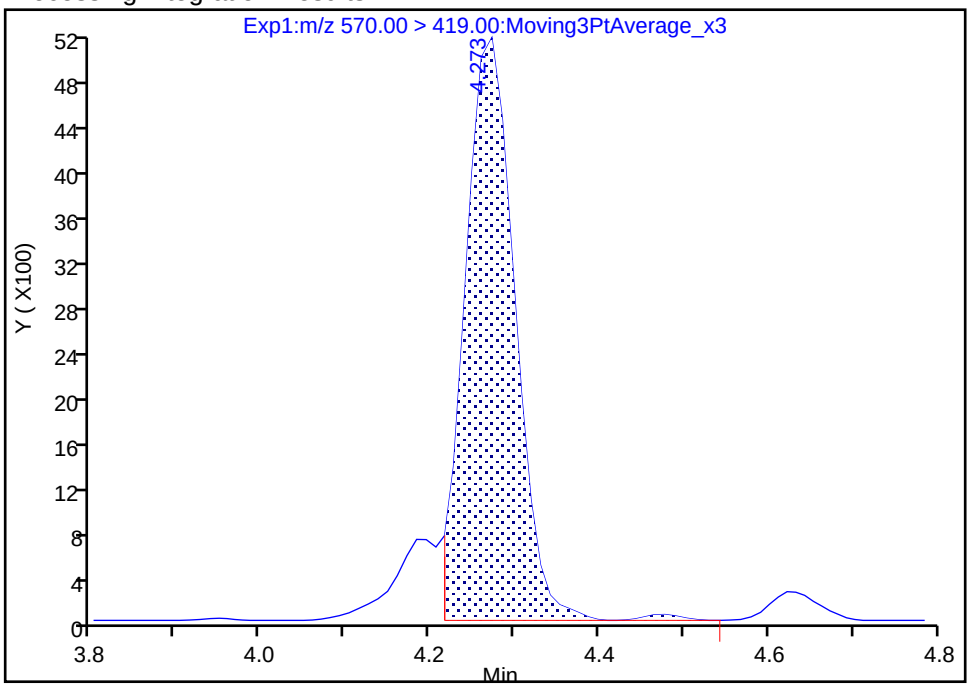
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

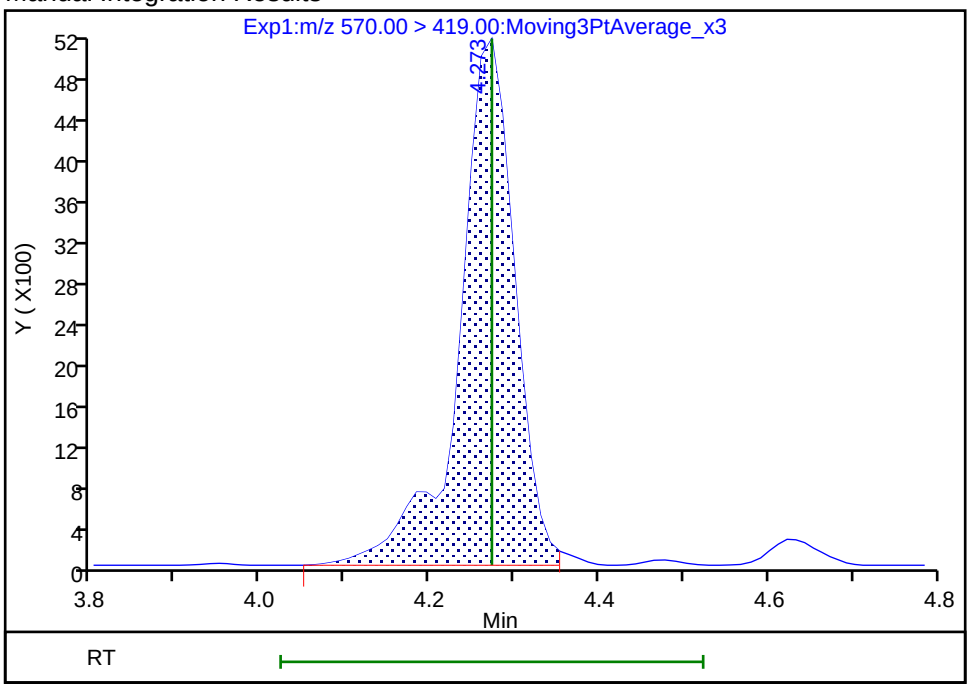
Processing Integration Results

RT: 4.27
Area: 21256
Amount: 0.106830
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 23814
Amount: 0.119686
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:10:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

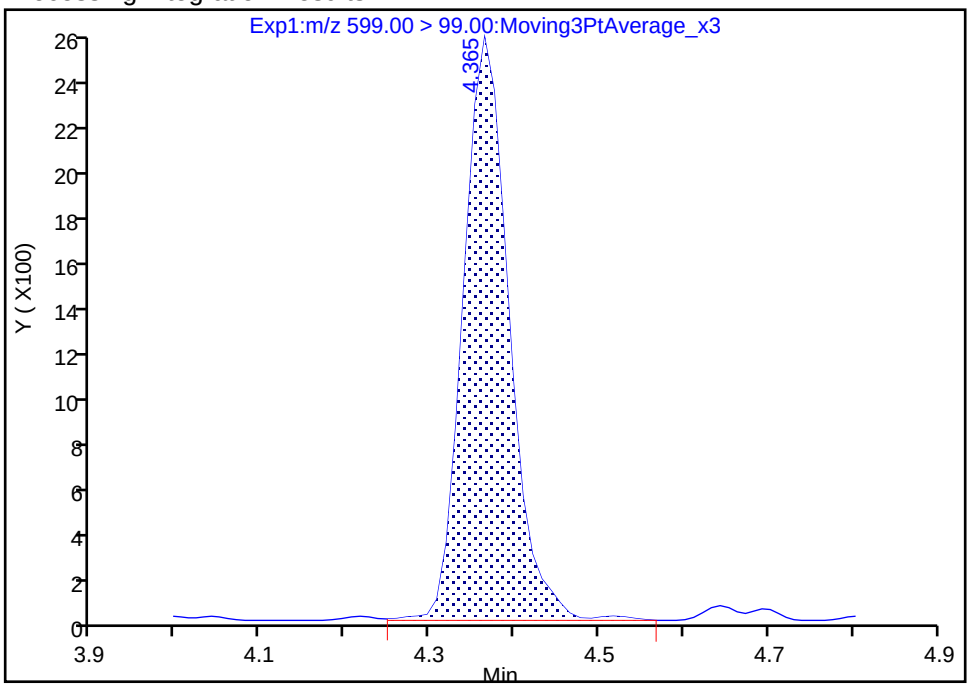
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

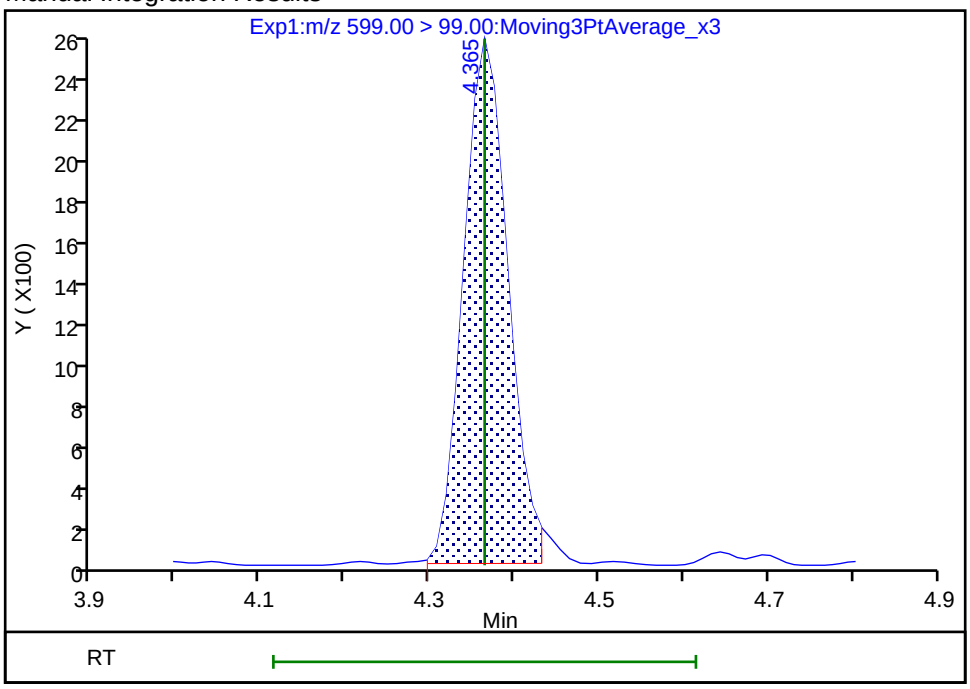
Processing Integration Results

RT: 4.36
Area: 9539
Amount: 0.045855
Amount Units: ng/ml



Manual Integration Results

RT: 4.36
Area: 9152
Amount: 0.045855
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:10:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

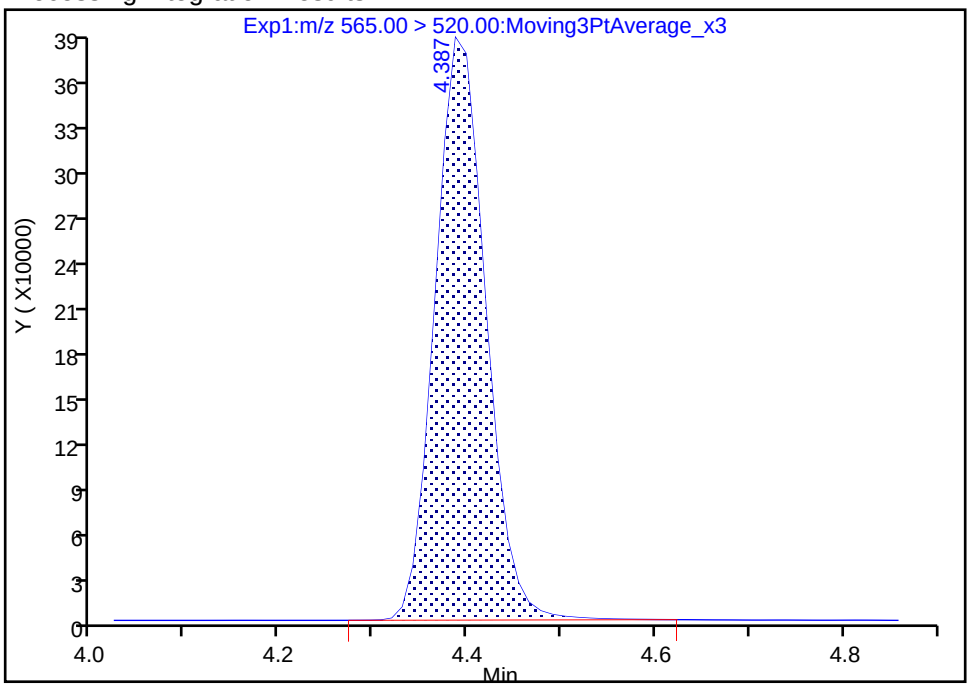
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

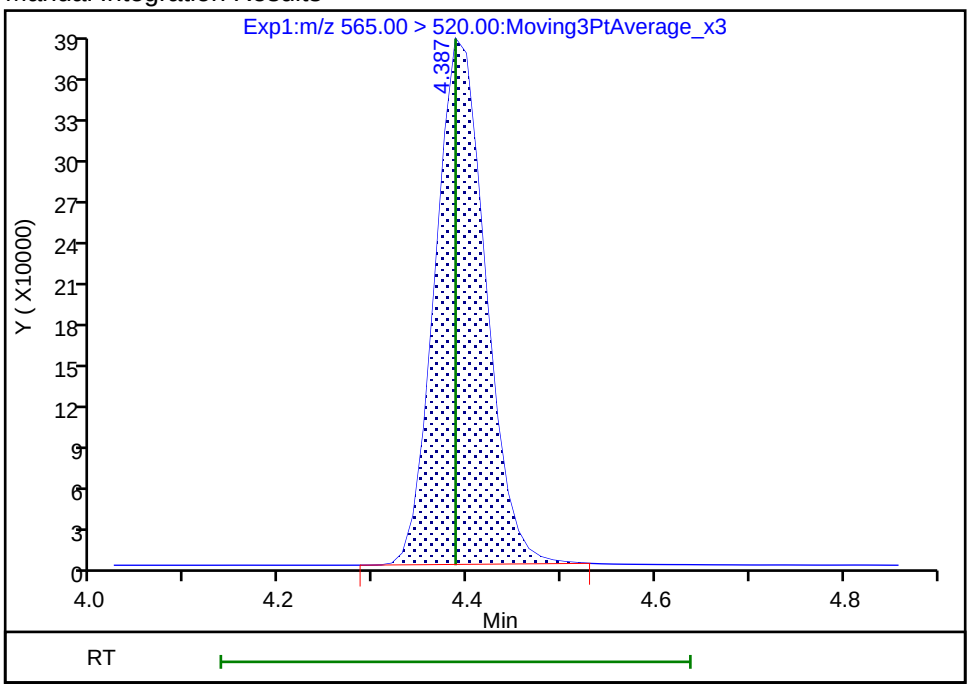
Processing Integration Results

RT: 4.39
Area: 1449879
Amount: 1.316931
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 1440335
Amount: 1.308262
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:11:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

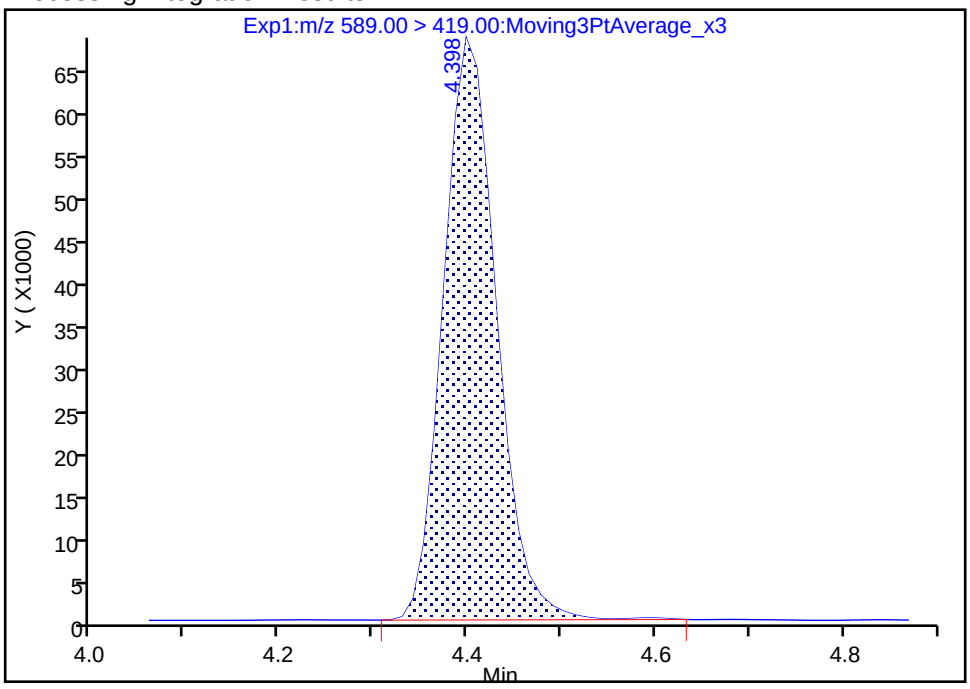
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d				
Injection Date:	13-Jun-2022 17:41:43	Instrument ID:	LC812		
Lims ID:	CCVLIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

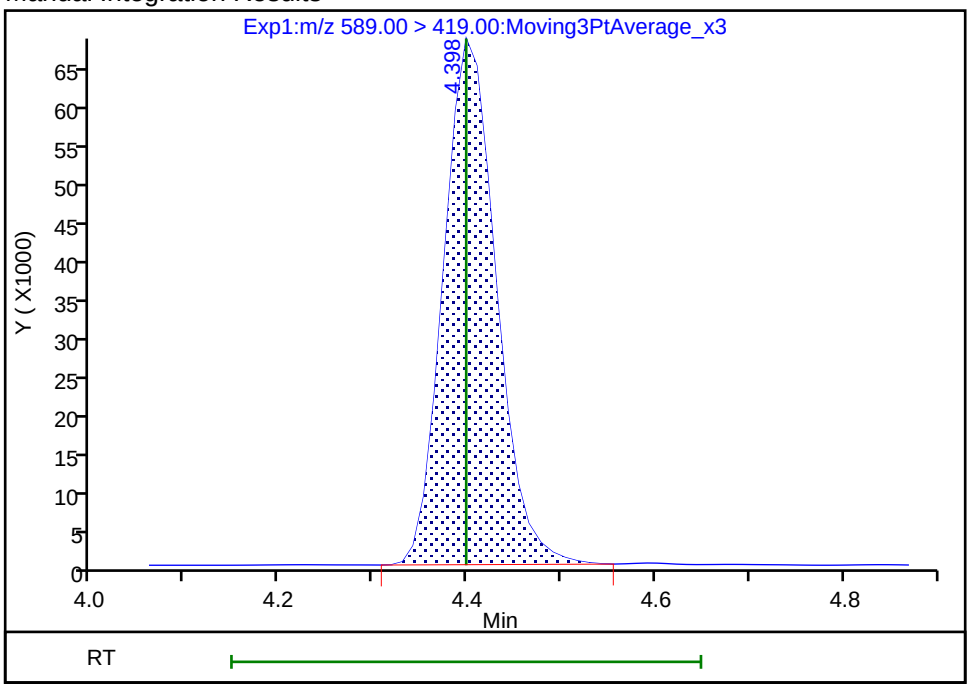
Processing Integration Results

RT: 4.40
Area: 268143
Amount: 1.490918
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 267090
Amount: 1.502316
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:42:27

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

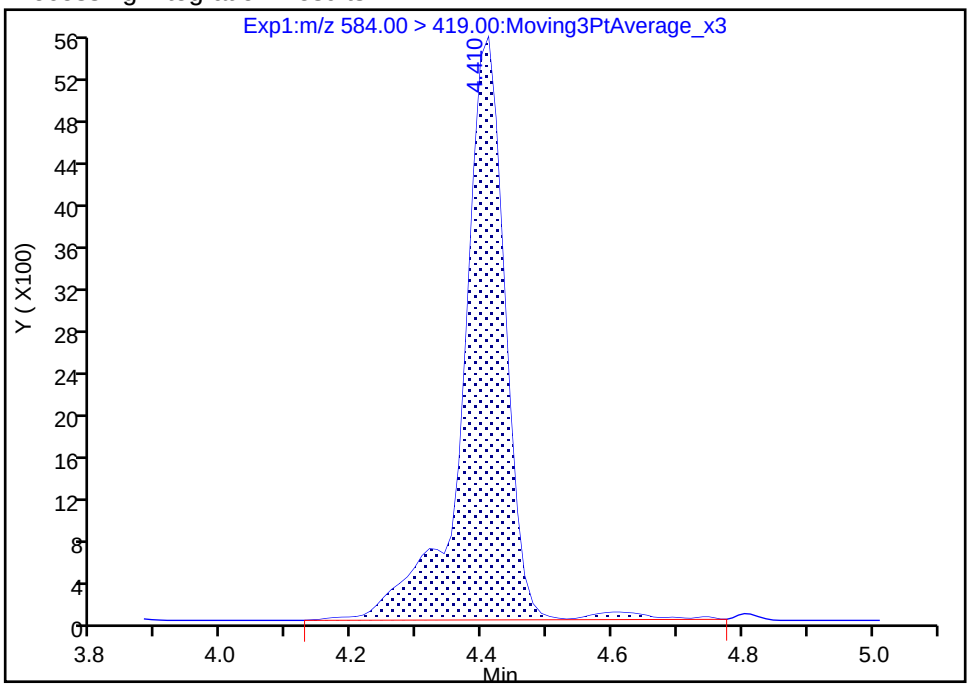
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

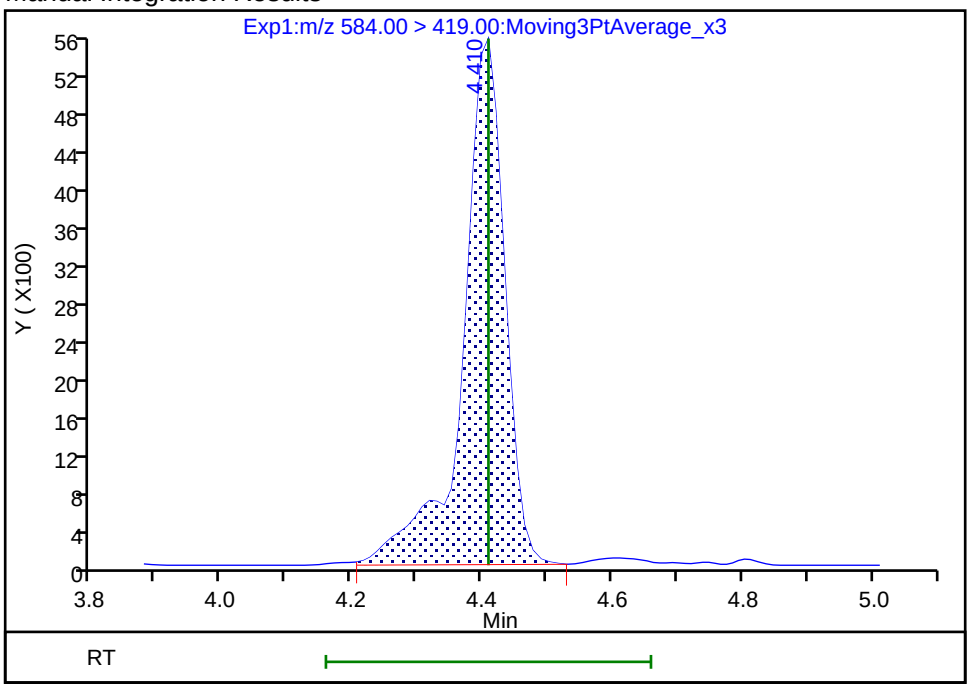
Processing Integration Results

RT: 4.41
Area: 25271
Amount: 0.126069
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 24704
Amount: 0.123241
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:06:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

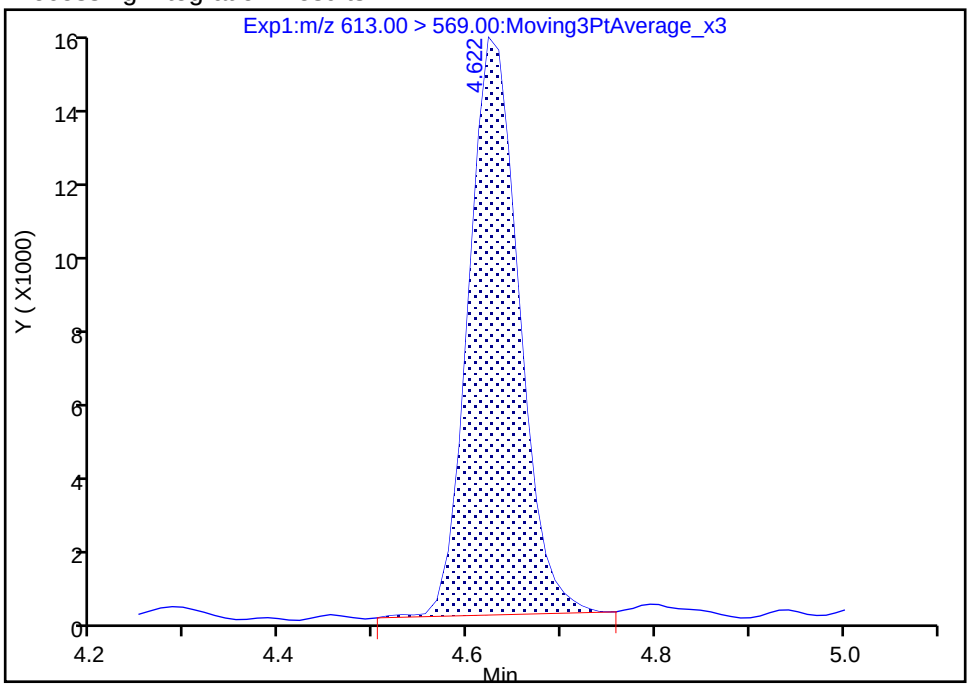
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

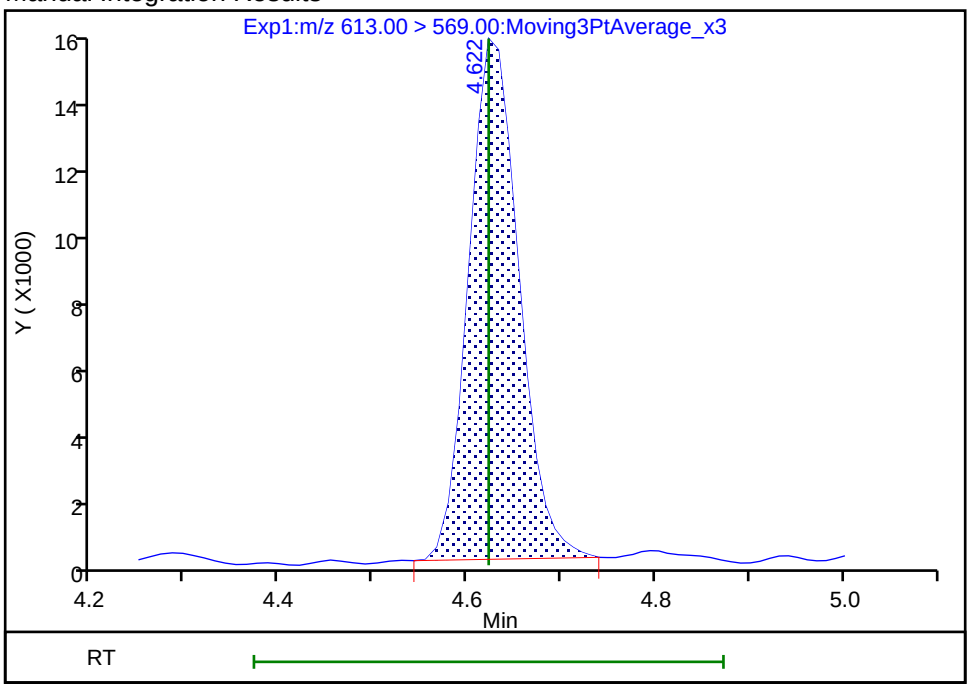
Processing Integration Results

RT: 4.62
Area: 55664
Amount: 0.046969
Amount Units: ng/ml



Manual Integration Results

RT: 4.62
Area: 55208
Amount: 0.047071
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:48:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

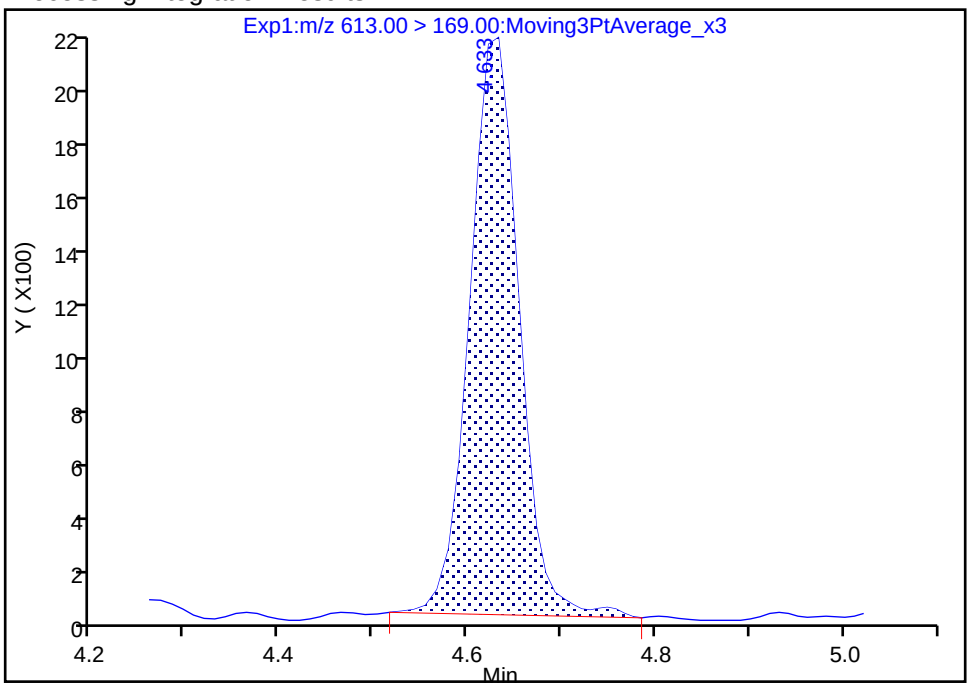
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

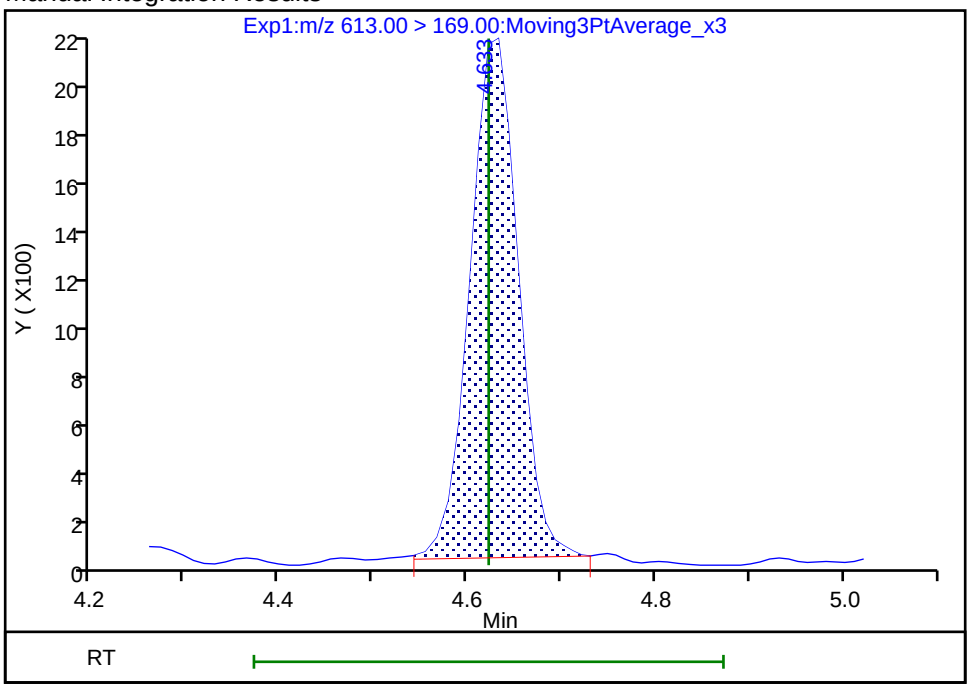
Processing Integration Results

RT: 4.63
Area: 7659
Amount: 0.046969
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 7464
Amount: 0.047071
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:48:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

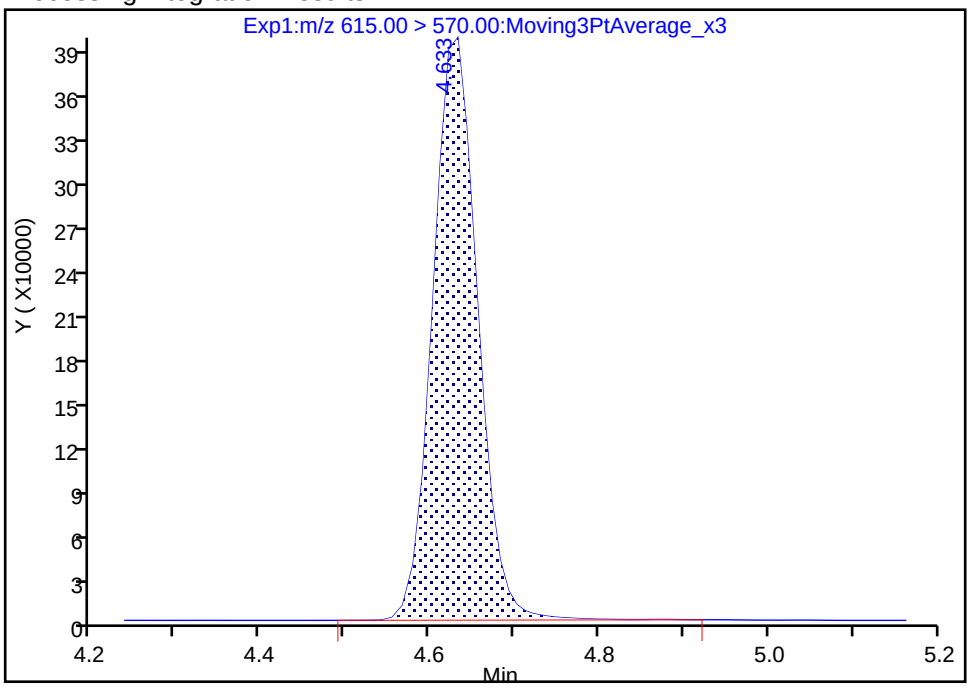
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 36 13C2 PFDoA, CAS: STL00998

Signal: 1

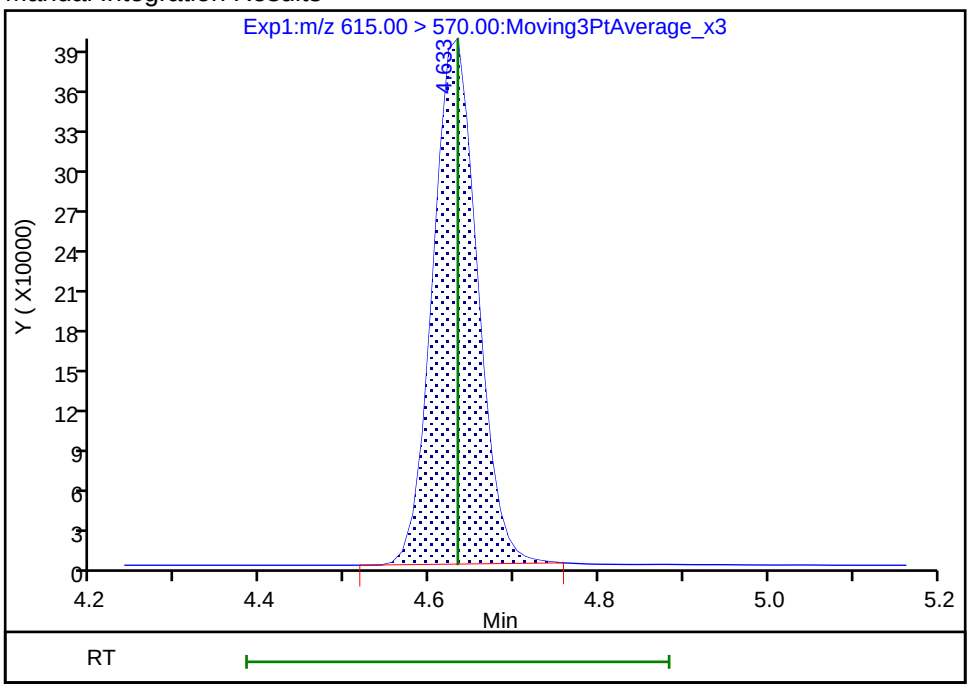
Processing Integration Results

RT: 4.63
Area: 1436356
Amount: 1.221628
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 1421488
Amount: 1.208983
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:11:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

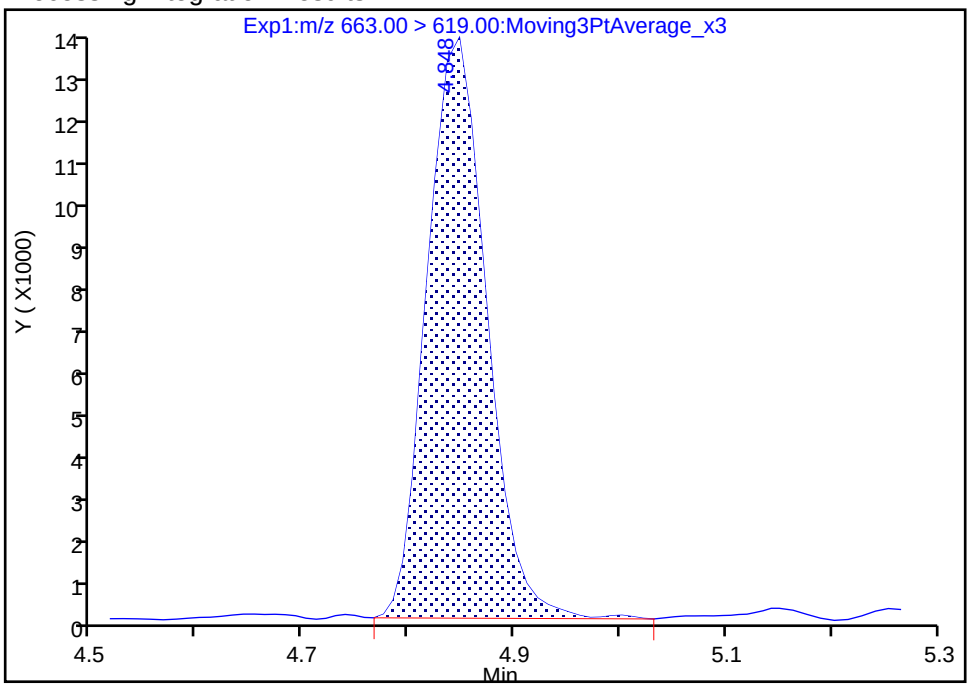
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

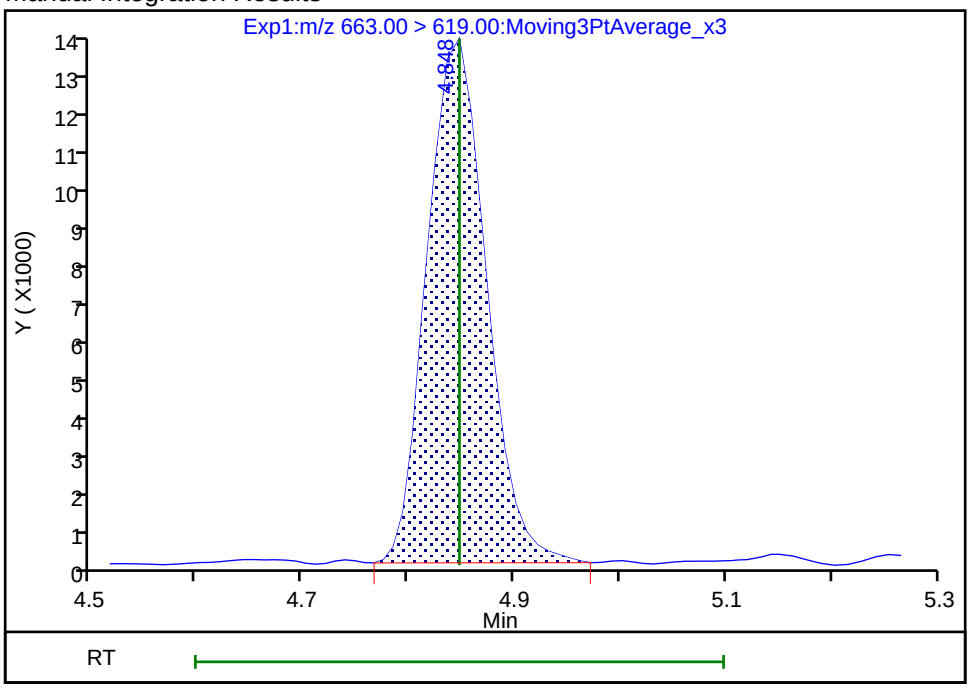
Processing Integration Results

RT: 4.85
Area: 53203
Amount: 0.052709
Amount Units: ng/ml



Manual Integration Results

RT: 4.85
Area: 52877
Amount: 0.052934
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:48:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

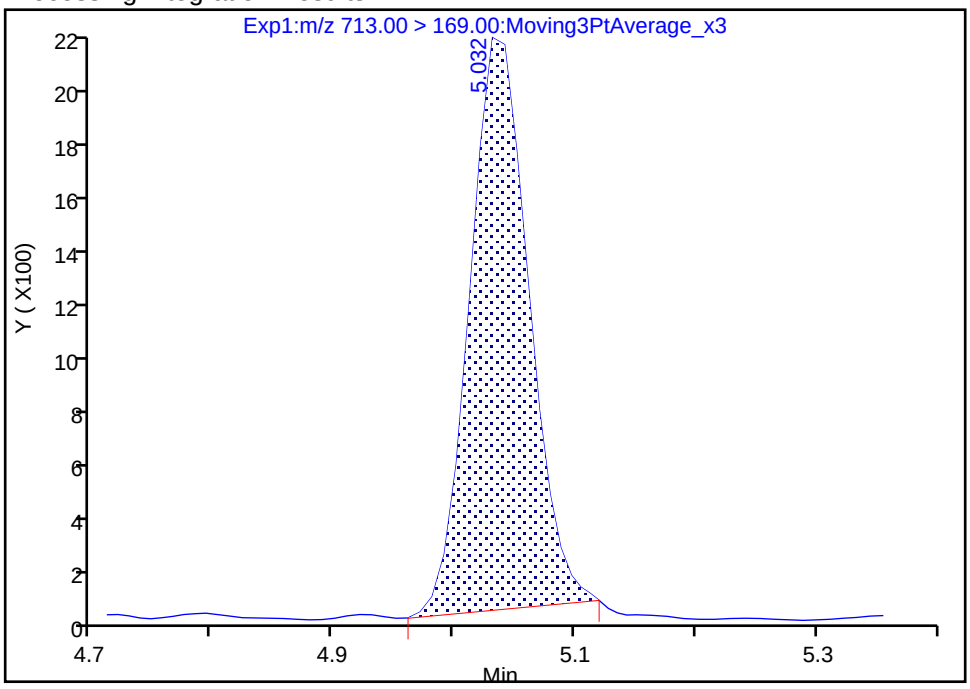
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

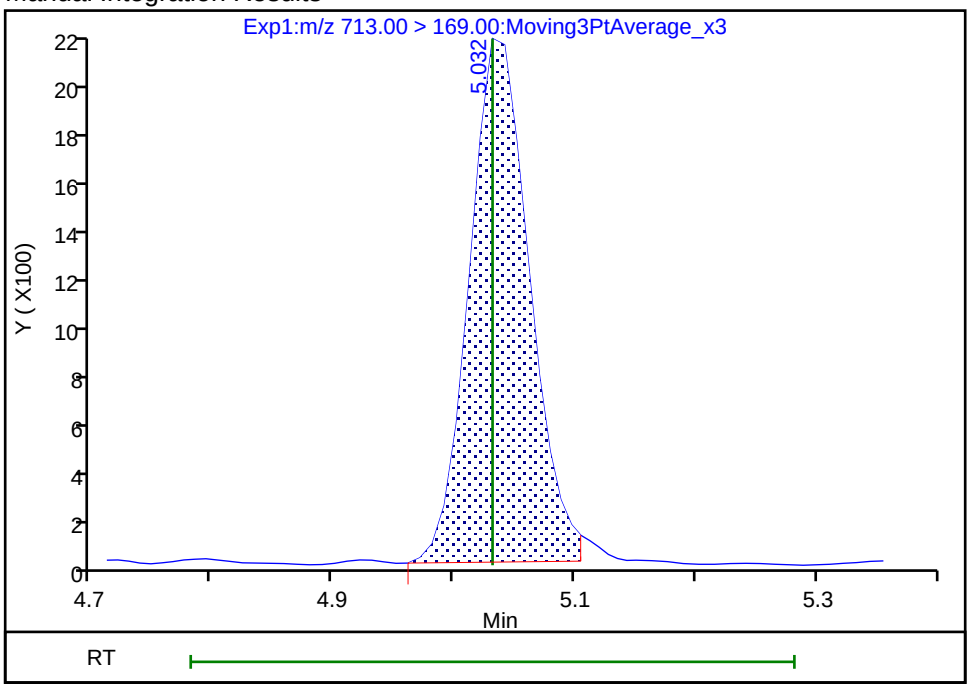
Processing Integration Results

RT: 5.03
Area: 7327
Amount: 0.052181
Amount Units: ng/ml



Manual Integration Results

RT: 5.03
Area: 7517
Amount: 0.053982
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:11:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

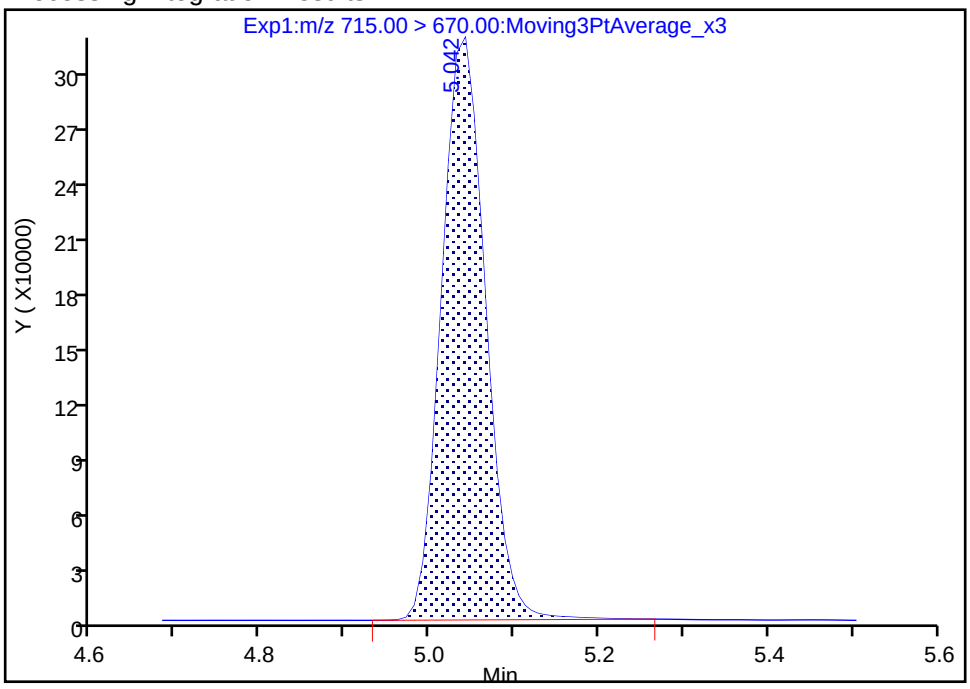
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

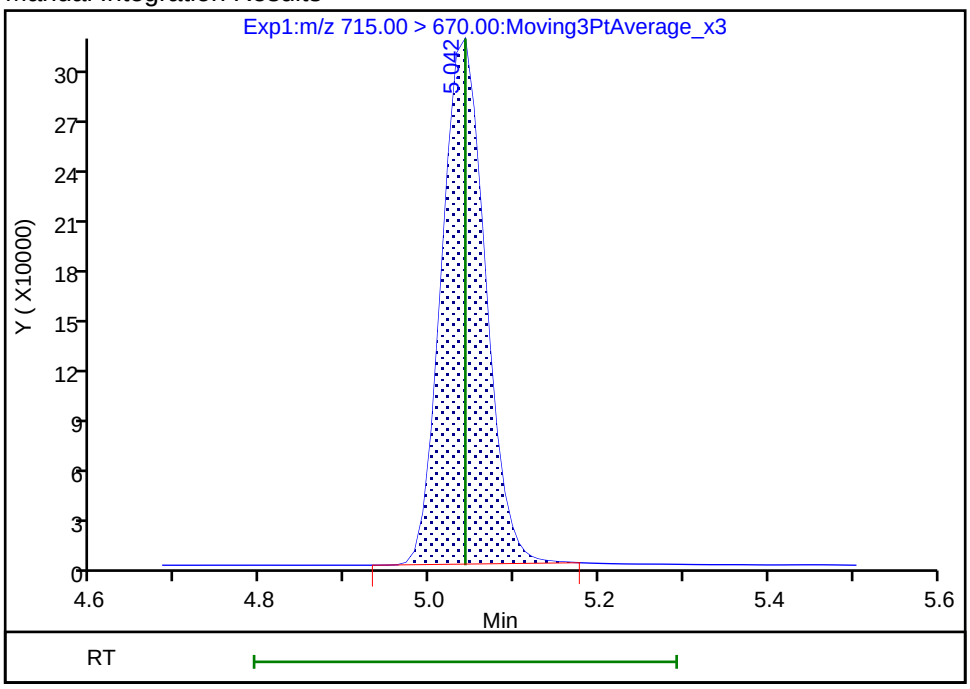
Processing Integration Results

RT: 5.04
Area: 1135932
Amount: 1.182087
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 1126499
Amount: 1.172271
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:11:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

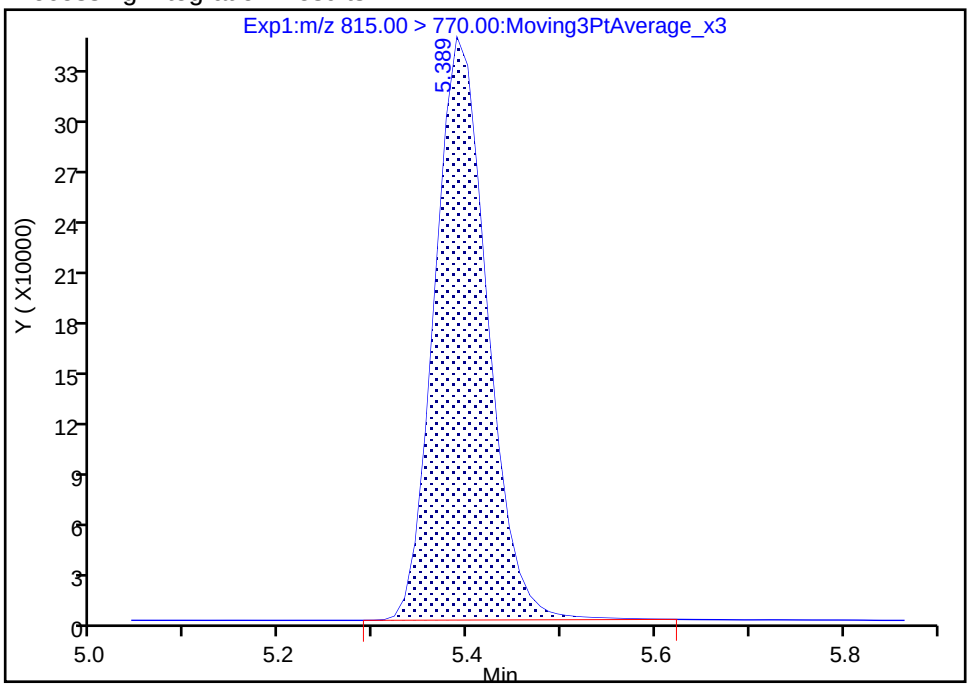
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

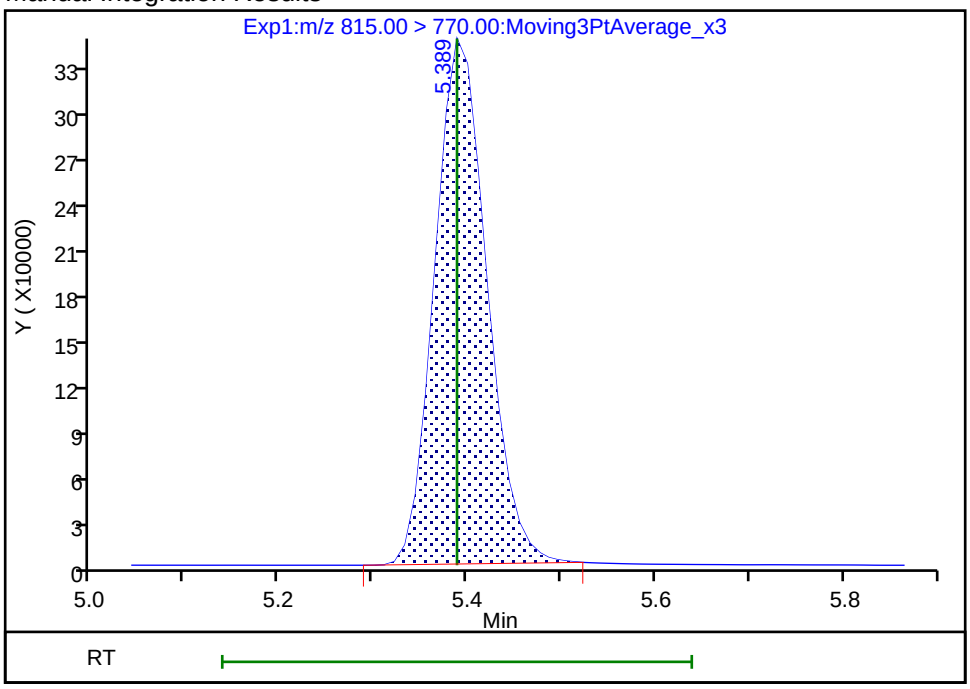
Processing Integration Results

RT: 5.39
Area: 1339297
Amount: 1.344548
Amount Units: ng/ml



Manual Integration Results

RT: 5.39
Area: 1325741
Amount: 1.330939
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:11:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

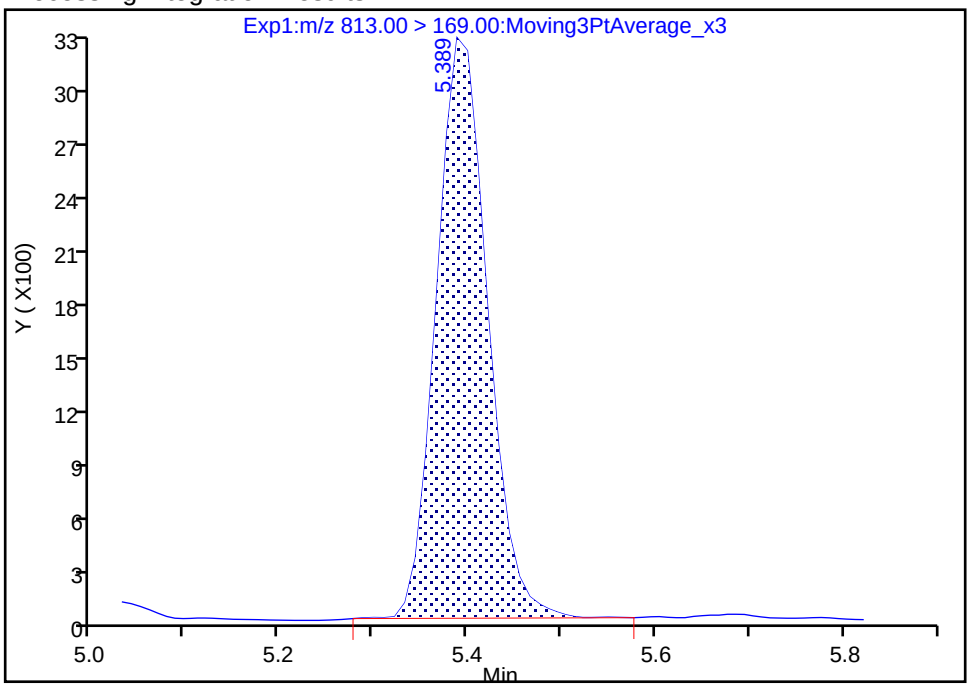
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

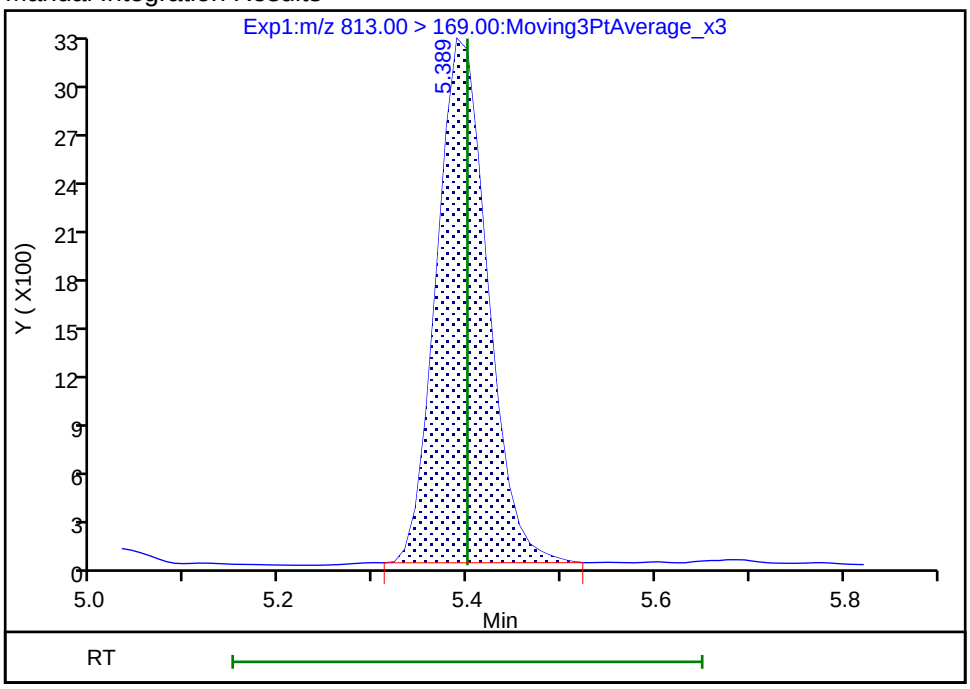
Processing Integration Results

RT: 5.39
Area: 12204
Amount: 0.047585
Amount Units: ng/ml



Manual Integration Results

RT: 5.39
Area: 12149
Amount: 0.048277
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:49:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

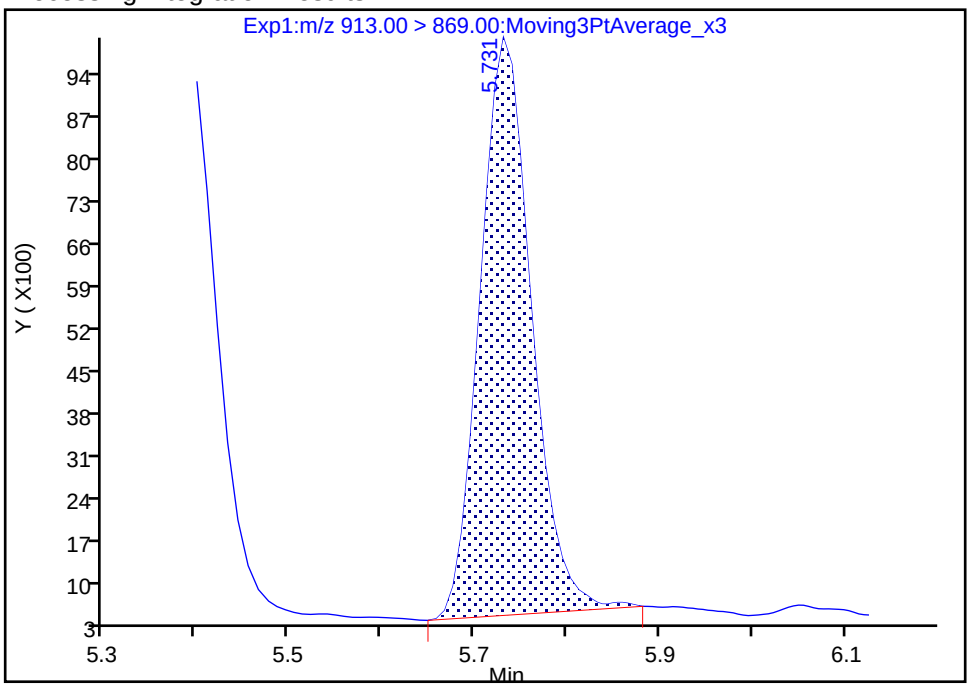
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

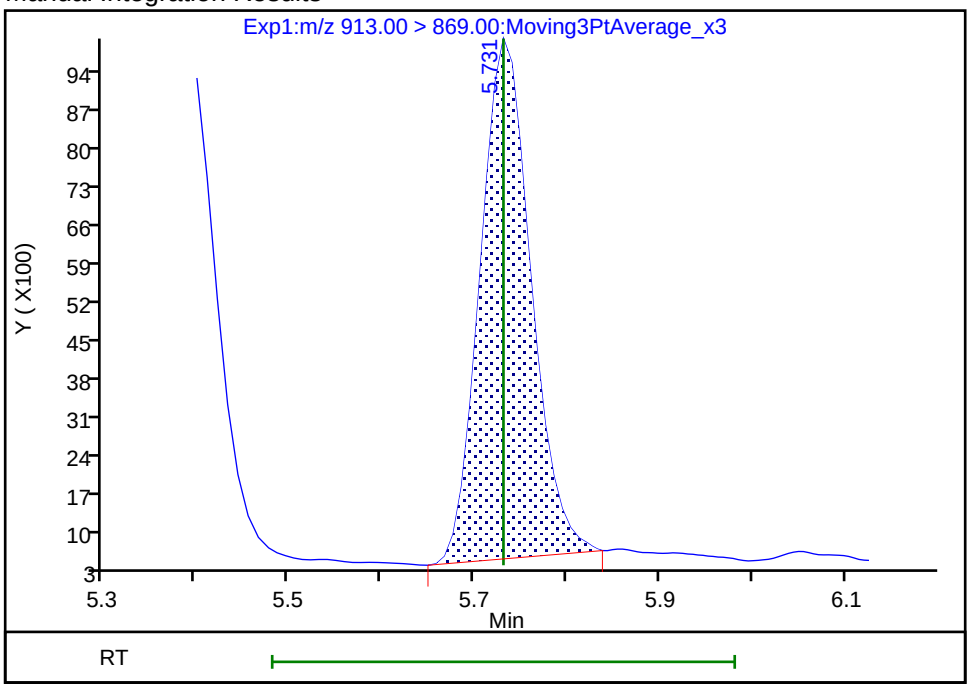
Processing Integration Results

RT: 5.73
Area: 36964
Amount: 0.049523
Amount Units: ng/ml



Manual Integration Results

RT: 5.73
Area: 36350
Amount: 0.049198
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:49:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

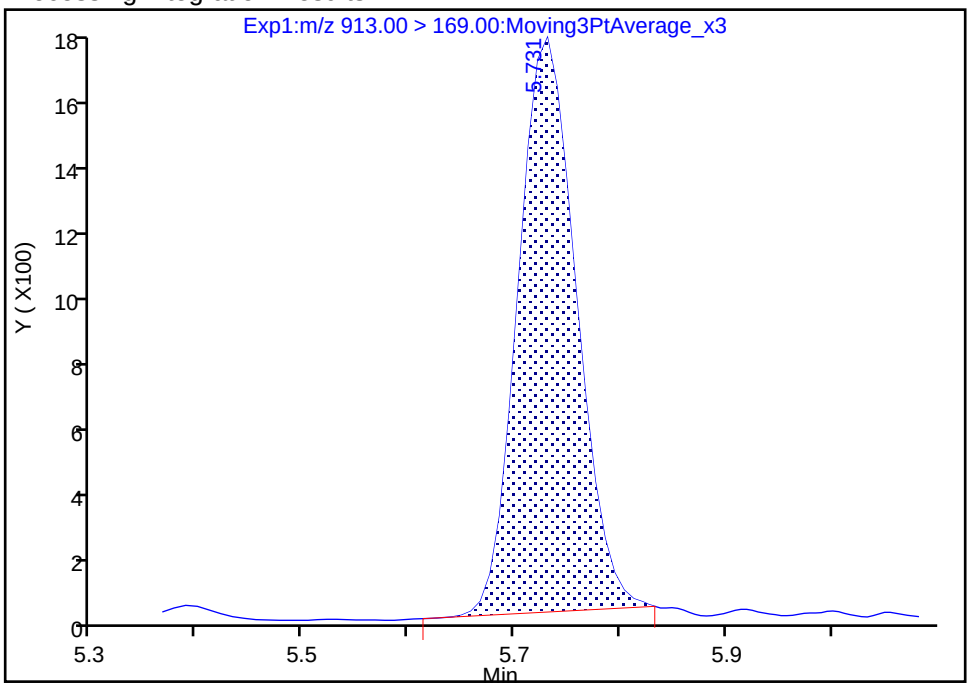
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A05.d
Injection Date: 13-Jun-2022 17:41:43 Instrument ID: LC812
Lims ID: CCVLIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

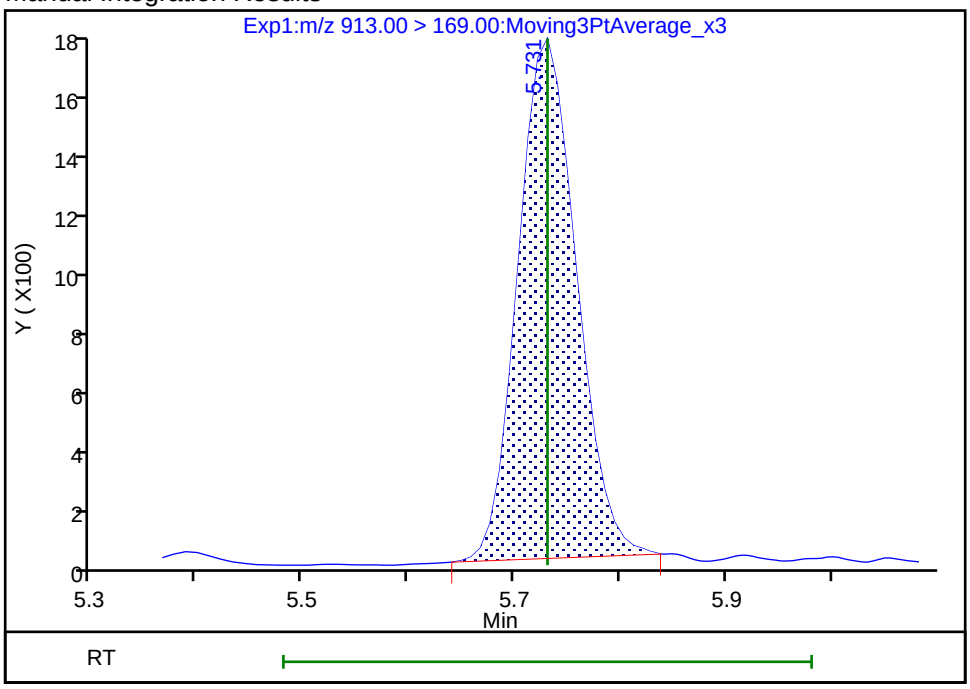
Processing Integration Results

RT: 5.73
Area: 6613
Amount: 0.049523
Amount Units: ng/ml



Manual Integration Results

RT: 5.73
Area: 6644
Amount: 0.049198
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:49:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: CCV 200-180744/17 Calibration Date: 06/13/2022 19:19

Instrument ID: LC812 Calib Start Date: 05/05/2022 15:13

GC Column: C-18 ID: 4.60(mm) Calib End Date: 05/05/2022 15:54

Lab File ID: PA220613A17.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9437	0.8983		0.952	1.00	-4.8	
Perfluoropentanoic acid (PFPeA)	AveID	1.019	0.9801		0.962	1.00	-3.8	
Perfluorobutanesulfonic acid (PFBS)	AveID	1.090	1.060		0.860	0.884	-2.7	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	2.511	2.527		0.940	0.934	0.6	
Perfluorohexanoic acid (PFHxA)	AveID	1.079	1.060		0.982	1.00	-1.8	
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.235	1.254		0.952	0.938	1.5	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.091	0.997		0.914	1.00	-8.6	
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.105	1.047		0.862	0.910	-5.2	
Perfluoroheptanoic acid (PFHpA)	AveID	1.011	0.9739		0.964	1.00	-3.6	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	3.195	3.742		1.10	0.942	17.1	
6:2 FTS	L1ID		1.591		0.956	0.948	0.9	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.202	1.156		0.916	0.952	-3.8	
Perfluorooctanoic acid (PFOA)	AveID	1.120	1.095		0.978	1.00	-2.2	
Perfluorooctanesulfonic acid (PFOS)	AveID	1.068	1.000		0.869	0.928	-6.4	
Perfluorononanoic acid (PFNA)	AveID	0.9672	1.020		1.05	1.00	5.4	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	AveID	1.765	1.856		0.980	0.932	5.2	
Perfluorononanesulfonic acid (PFNS)	AveID	0.8088	0.7754		0.920	0.960	-4.1	
8:2 FTS	AveID	1.113	1.134		0.976	0.958	1.9	
Perfluorodecanoic acid (PFDA)	AveID	1.065	1.054		0.990	1.00	-1.0	
Perfluorooctanesulfonamide (FOSA)	AveID	1.015	1.012		0.997	1.00	-0.3	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9094	0.9049		0.995	1.00	-0.5	
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6168	0.6144		0.960	0.964	-0.4	
Perfluoroundecanoic acid (PFUnA)	AveID	1.031	1.016		0.986	1.00	-1.4	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9381	0.8891		0.948	1.00	-5.2	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	AveID	2.441	2.656		1.02	0.942	8.8	
Perfluorododecanoic acid (PFDoA)	AveID	1.031	0.9496		0.921	1.00	-7.9	
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.5535	0.5531		0.963	0.964	-0.0	
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2803	0.2684		0.927	0.968	-4.2	

FORM VII 537 (modified)

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: CCV 200-180744/17 Calibration Date: 06/13/2022 19:19

Instrument ID: LC812 Calib Start Date: 05/05/2022 15:13

GC Column: C-18 ID: 4.60(mm) Calib End Date: 05/05/2022 15:54

Lab File ID: PA220613A17.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.8784	0.9063		1.03	1.00	3.2	
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1545	0.1398		0.905	1.00	-9.5	
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.9588		1.07	1.00	7.3	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.6966	0.6920		0.993	1.00	-0.7	
13C4 PFBA	Ave	1.062	1.274		1.50	1.25	20.0	
13C5 PFPeA	Ave	0.8115	0.9468		1.46	1.25	16.7	
13C3 PFBS	Ave	1.177	1.195		1.18	1.16	1.6	
M2-4:2 FTS	Ave	0.0973	0.0987		1.18	1.17	1.4	
13C2 PFHxA	Ave	0.8298	0.9194		1.39	1.25	10.8	
13C3 HFPO-DA	Ave	0.1420	0.1529		1.35	1.25	7.6	
18O2 PFHxS	Ave	0.9203	0.8841		1.14	1.18	-3.9	50.0
13C4 PFHpA	Ave	0.8953	1.014		1.42	1.25	13.3	50.0
M2-6:2 FTS	Ave	0.1501	0.1506		1.19	1.19	0.3	
13C4 PFOA	Ave	0.9414	0.9609		1.28	1.25	2.1	50.0
13C4 PFOS	Ave	0.7230	0.6712		1.11	1.20	-7.2	50.0
13C5 PFNA	Ave	1.023	1.035		1.27	1.25	1.2	50.0
13C2 PFDA	Ave	0.9850	1.027		1.30	1.25	4.3	
M2-8:2 FTS	Ave	0.1803	0.1847		1.23	1.20	2.4	
13C8 FOSA	Ave	1.084	1.012		1.17	1.25	-6.6	
d3-NMeFOSAA	Ave	0.1307	0.1712		1.64	1.25	31.0	
13C2 PFUnA	Ave	0.7909	0.8382		1.32	1.25	6.0	
d5-NEtFOSAA	Ave	0.1277	0.1650		1.62	1.25	29.2	
13C2 PFDoA	Ave	0.8446	0.8479		1.25	1.25	0.4	
13C2 PFTeDA	Ave	0.6903	0.6981		1.26	1.25	1.1	
13C2 PFHxDA	Ave	0.7156	0.7342		1.28	1.25	2.6	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Lims ID: CCV L4
Client ID:
Sample Type: CCV
Inject. Date: 13-Jun-2022 19:19:48 ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L4
Misc. Info.: 200-0051257-017 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 14-Jun-2022 14:35:47 Calib Date: 05-May-2022 15:54:29
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1636

First Level Reviewer: khanphomeea Date: 14-Jun-2022 10:41:42
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.085	2.085	0.0	0.599	2166430	1.50		120	12737	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.093	2.093	0.0	1.004	1556893	0.9519		95.2	206	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.400	0.0	0.689	1610637	1.46		117	3059	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.400	2.400	0.0	1.000	1262821	0.9617		96.2	52.5	M
D 47 13C3 PFBS										
301.90 > 80.00	2.413	2.427	-0.014	0.693	1891001	1.18		102	318167	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.426	2.427	-0.001	1.006	1524791	0.8600	Target=2.15	97.3	1474	M
298.90 > 99.00	2.426	2.427	-0.001	1.006	716088		2.13(1.07-3.22)		508	M
D 60 M2-4:2 FTS										
329.00 > 81.00	2.713	2.725	-0.012	0.779	156822	1.18		101	155	
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.713	2.725	-0.012	1.000	316996	0.9400		101	1331	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.762	2.762	0.0	0.793	1564035	1.39		111	2527	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.762	2.762	0.0	1.000	1326436	0.9822	Target=12.59	98.2	223	M
313.00 > 119.00	2.762	2.762	0.0	1.000	99884		13.28(6.29-18.88)		155	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.762	2.762	0.0	0.885	1415293	0.9525	Target=2.96	102	1547	M
349.00 > 99.00	2.762	2.762	0.0	0.885	500499		2.83(1.48-4.44)		787	
D 64 13C3 HFPO-DA										M
287.00 > 169.00	2.871	2.871	0.0	0.825	260036	1.35		108	694	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.871	2.871	0.0	1.000	207389	0.9136		91.4	984	M
D 11 18O2 PFHxS										M
403.00 > 84.00	3.121	3.121	0.0	0.896	1422773	1.14		96.1	1322	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.121	3.121	0.0	1.000	1146708	0.8623	Target=3.53	94.8	1000	M
399.00 > 99.00	3.121	3.121	0.0	1.000	340042		3.37(1.76-5.29)		460	M
D 9 13C4 PFHpA										M
367.00 > 322.00	3.132	3.132	0.0	0.899	1724975	1.42		113	1929	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.132	3.132	0.0	1.000	1343906	0.9637	Target=3.75	96.4	339	M
363.00 > 169.00	3.121	3.132	-0.011	0.996	352667		3.81(1.87-5.62)		411	M
77 DONA										M
377.00 > 251.00	3.165	3.165	0.0	0.833	3219304	1.10	Target=2.77	117	2281	M
377.00 > 85.00	3.165	3.165	0.0	0.833	1145403		2.81(1.38-4.15)		1490	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.473	3.474	-0.001	0.914	1005549	0.9159	Target=4.90	96.2	1689	M
449.00 > 99.00	3.473	3.474	-0.001	0.914	213058		4.72(2.45-7.35)		836	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.473	3.474	-0.001	0.997	243448	1.19		100	551	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.473	3.474	-0.001	1.000	309116	0.9561		101	130	M
* 62 13C2 PFOA										
415.00 > 370.00	3.482	3.482	0.0		1701058	1.25			2943	
D 14 13C4 PFOA										M
417.00 > 372.00	3.482	3.482	0.0	1.000	1634570	1.28		102	1847	M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.482	3.482	0.0	1.000	1431767	0.9776	Target=2.68	97.8	126	M
413.00 > 169.00	3.482	3.482	0.0	1.000	539893		2.65(1.34-4.02)		734	M
D 18 13C4 PFOS										
503.00 > 80.00	3.802	3.802	0.0	1.092	1091451	1.11		92.8	1774	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.802	3.802	0.0	1.000	847637	0.8691	Target=4.47	93.6	652	M
499.00 > 99.00	3.802	3.802	0.0	1.000	190108		4.46(2.24-6.71)		526	M
D 19 13C5 PFNA										M
468.00 > 423.00	3.822	3.822	0.0	1.098	1761279	1.27		101	2122	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.822	3.822	0.0	1.000	1437026	1.05	Target=7.74	105	320	
463.00 > 169.00	3.822	3.822	0.0	1.000	173058		8.30(3.87-11.61)		1099	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.969	3.969	0.0	1.044	1579940	0.9802		105	2780	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.092	4.093	-0.001	1.076	679906	0.9204	Target=2.49	95.9	2164	
549.00 > 99.00	4.092	4.093	-0.001	1.076	284608		2.39(1.24-3.73)		1144	
D 23 13C2 PFDA										M
515.00 > 470.00	4.115	4.127	-0.012	1.182	1747735	1.30		104	933	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.127	4.127	0.0	1.003	1474001	0.9895	Target=9.31	99.0	606	
513.00 > 169.00	4.115	4.127	-0.012	1.000	142273		10.36(4.65-13.96)		459	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.127	4.127	0.0	1.000	273049	0.9760		102	952	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.127	4.127	0.0	1.185	300982	1.23		102	1078	
D 21 13C8 FOSA										M
506.00 > 78.00	4.195	4.195	0.0	1.205	1721273	1.17		93.4	1663	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.195	4.195	0.0	1.000	1393156	1.00		99.7	1565	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.261	4.261	0.0	1.224	291276	1.64		131	938	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.273	4.273	0.0	1.003	210852	0.99		99.5	514	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.364	4.365	-0.001	1.148	540929	0.9602	Target=2.56	99.6	1912	M
599.00 > 99.00	4.364	4.365	-0.001	1.148	206794		2.62(1.28-3.84)		1311	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.387	4.387	0.0	1.000	1159080	0.9860	Target=9.41	98.6	618	M
563.00 > 169.00	4.387	4.387	0.0	1.000	119208		9.72(4.70-14.11)		972	
D 30 13C2 PFUnA										M
565.00 > 520.00	4.387	4.387	0.0	1.260	1425771	1.32		106	2288	M
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.398	4.398	0.0	1.263	280695	1.62		129	998	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.410	4.410	0.0	1.003	199646	0.9477		94.8	802	M
66 11-Chloroeicosafluoro-3-oxaundec										M
631.00 > 451.00	4.491	4.491	0.0	1.181	2285461	1.02		109	2032	M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.622	4.622	0.0	1.000	1095684	0.9207	Target=6.95	92.1	143	M
613.00 > 169.00	4.622	4.622	0.0	1.000	161275		6.79(3.48-10.43)		842	
D 36 13C2 PFDoA										M
615.00 > 570.00	4.622	4.633	-0.011	1.327	1442352	1.25		100	1814	M
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.643	4.654	-0.011	1.125	134008	0.9633		99.9	1152	
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.803	4.803	0.0	1.263	237264	0.9269	Target=0.55	95.8	1650	
699.00 > 99.00	4.803	4.803	0.0	1.263	439889		0.54(0.27-0.82)		1171	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.848	4.848	0.0	1.049	1045805	1.03	Target=4.44	103	162	M
663.00 > 169.00	4.848	4.848	0.0	1.049	206538		5.06(2.22-6.66)		898	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.042	5.032	0.010	1.000	132862	0.9050	Target=0.96	90.5	1061	
713.00 > 219.00	5.032	5.032	0.0	0.998	139597		0.95(0.48-1.44)		584	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.042	5.042	0.0	1.448	1187588	1.26		101	2114	M

Report Date: 14-Jun-2022 14:35:48 Chrom Revision: 2.3 18-May-2022 20:00:04
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.400	5.389	0.011	1.551	1248942	1.28		103	1867	M
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.400	5.400	0.0	1.000	957977	1.07	Target=4.90	107	171	M
813.00 > 169.00	5.400	5.400	0.0	1.000	187890		5.10(2.45-7.36)		940	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.740	5.731	0.009	1.063	691374	0.99	Target=4.81	99.3	151	M
913.00 > 169.00	5.740	5.731	0.009	1.063	133203		5.19(2.40-7.21)		661	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

PFAS32NCIC4_00032 Amount Added: 100.00 Units: uL

Report Date: 14-Jun-2022 14:35:48 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d

Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812

Lims ID: CCV L4

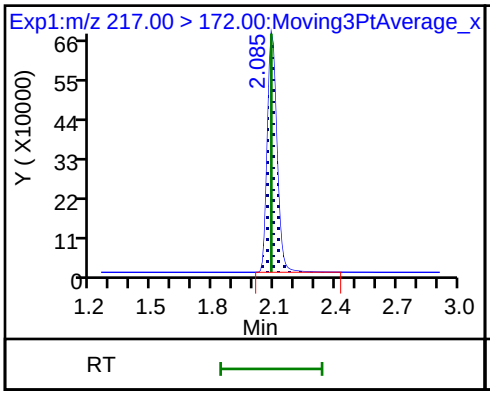
Client ID:

Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17

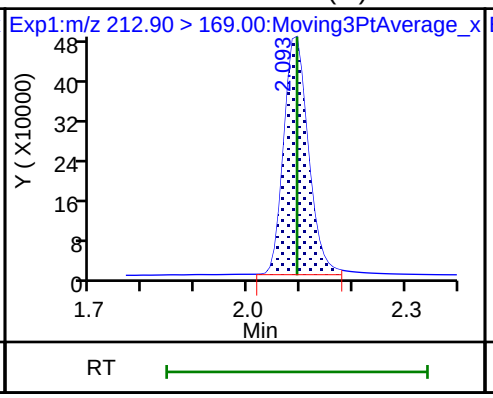
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

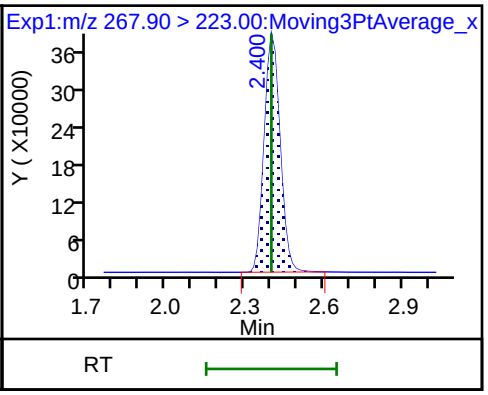
D 1 13C4 PFBA



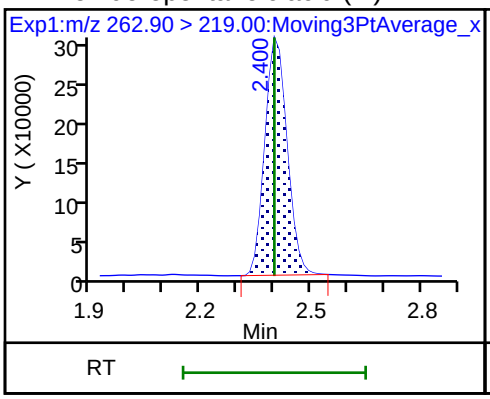
2 Perfluorobutanoic acid (M)



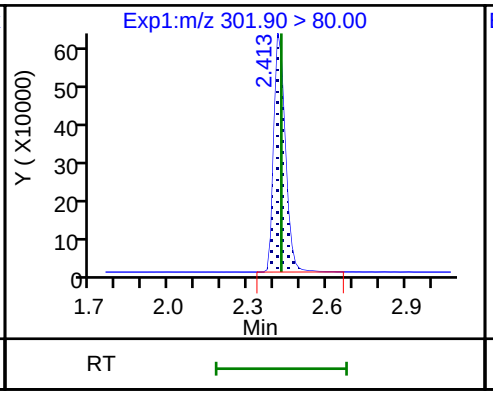
D 3 13C5 PFPeA



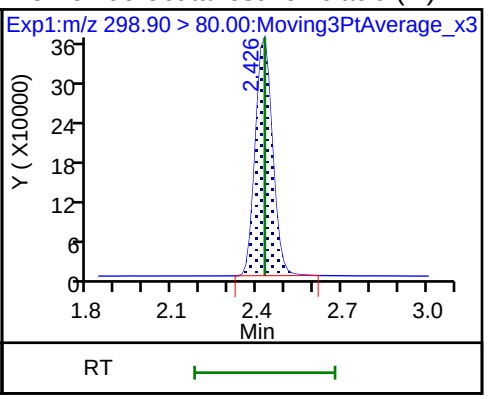
4 Perfluoropentanoic acid (M)



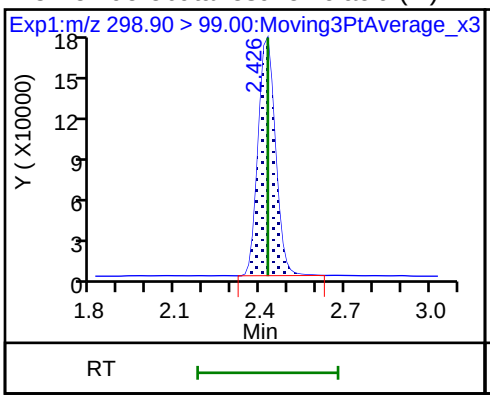
D 47 13C3 PFBS



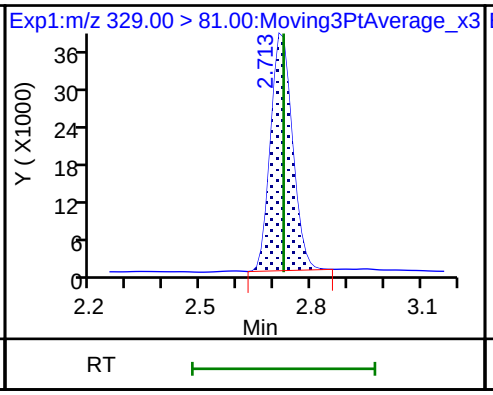
5 Perfluorobutanesulfonic acid (M)



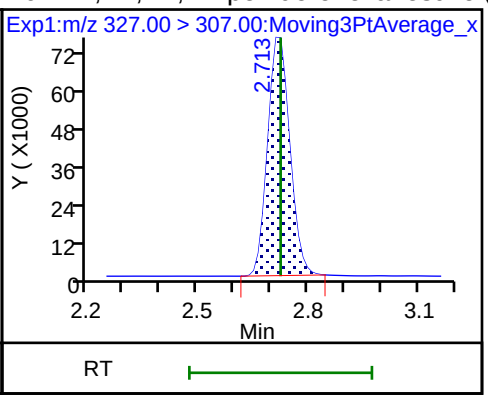
5 Perfluorobutanesulfonic acid (M)



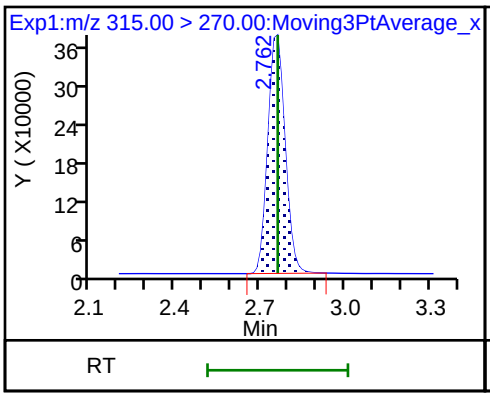
D 60 M2-4:2 FTS



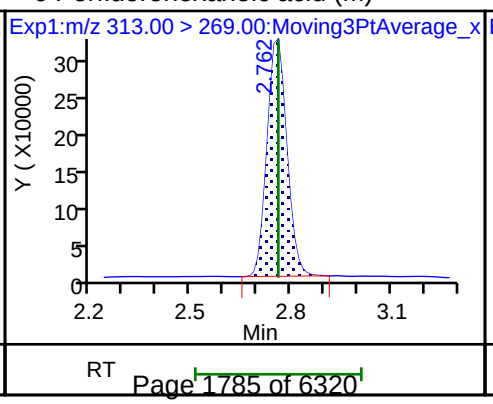
61 1H,1H,2H,2H-perfluorohexanesulfo (M)



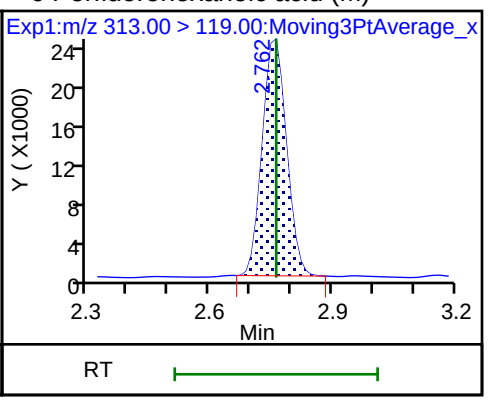
D 7 13C2 PFHxA



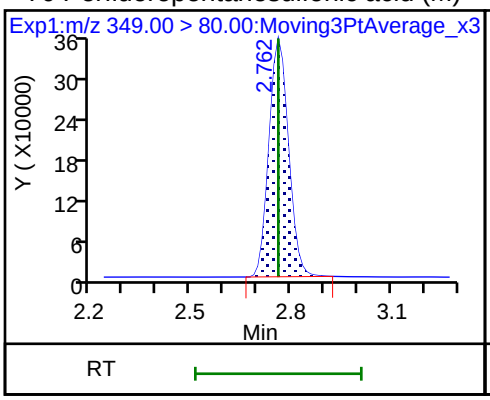
6 Perfluorohexanoic acid (M)



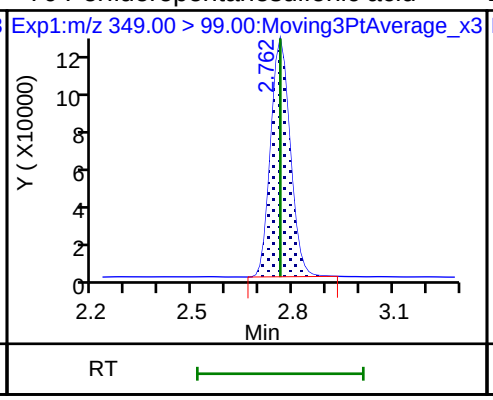
6 Perfluorohexanoic acid (M)



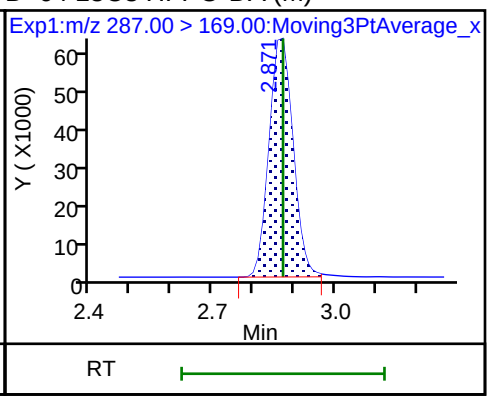
70 Perfluoropentanesulfonic acid (M)



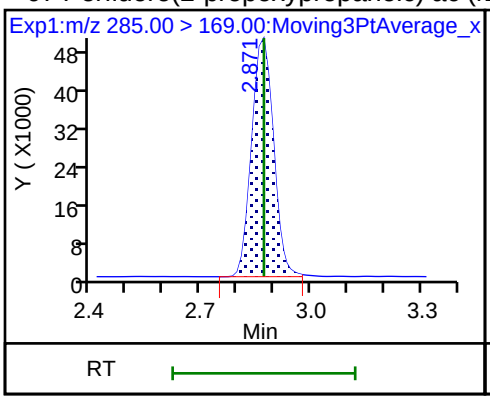
70 Perfluoropentanesulfonic acid



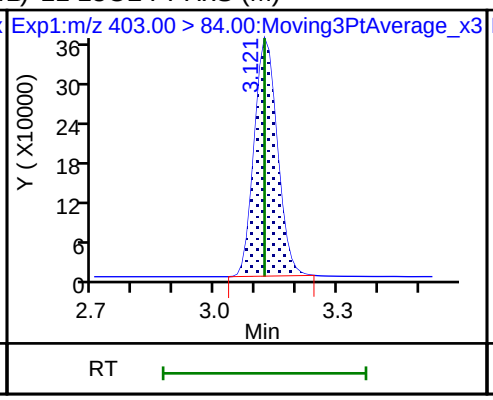
D 64 13C3 HFPO-DA (M)



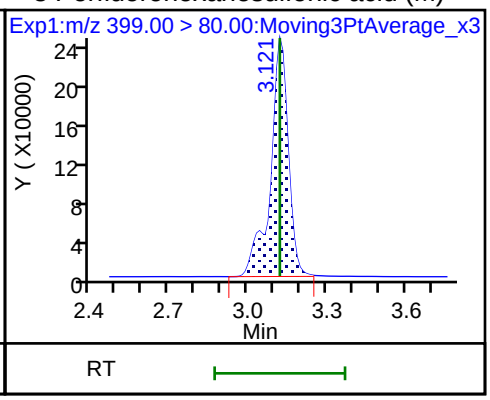
67 Perfluoro(2-propoxypropanoic) ac (M)



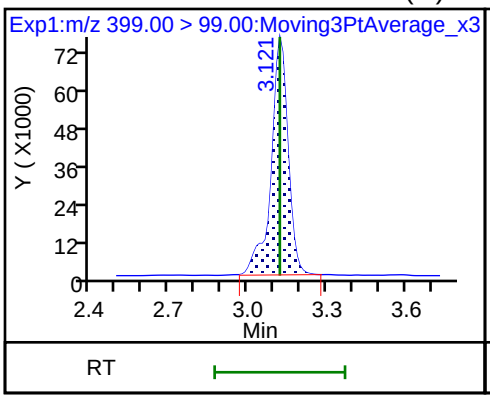
D 11 18O2 PFHxS (M)



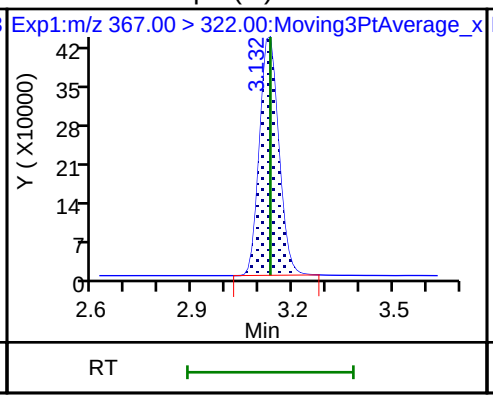
8 Perfluorohexanesulfonic acid (M)



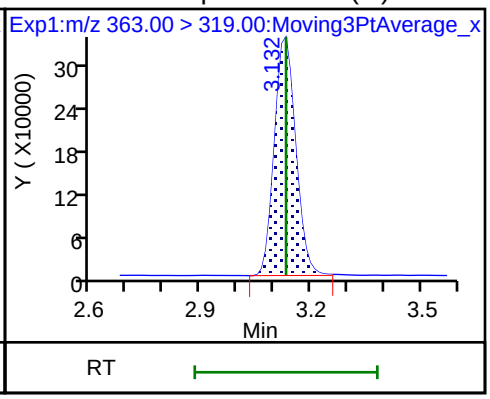
8 Perfluorohexanesulfonic acid (M)



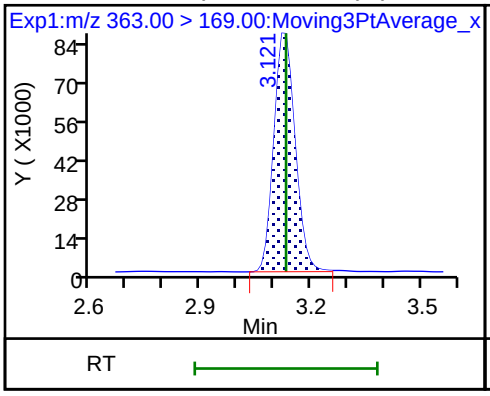
D 9 13C4 PFHpA (M)



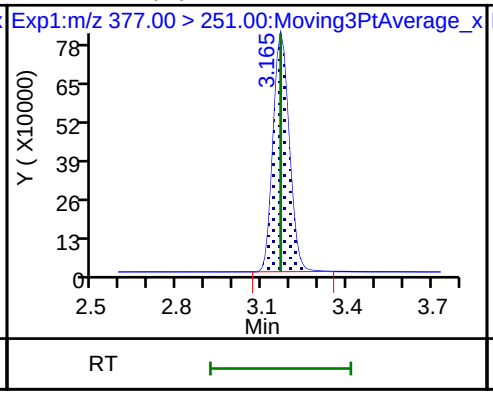
10 Perfluoroheptanoic acid (M)



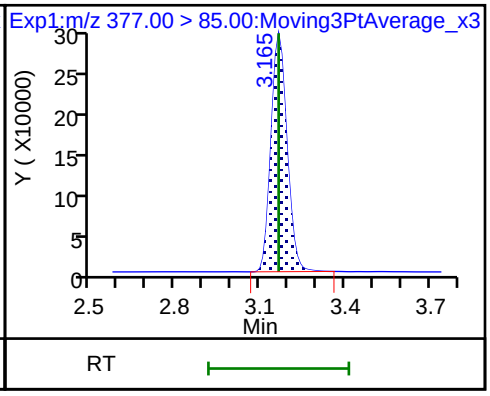
10 Perfluoroheptanoic acid (M)



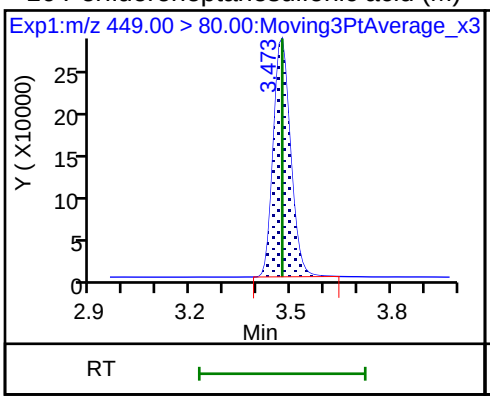
77 DONA (M)



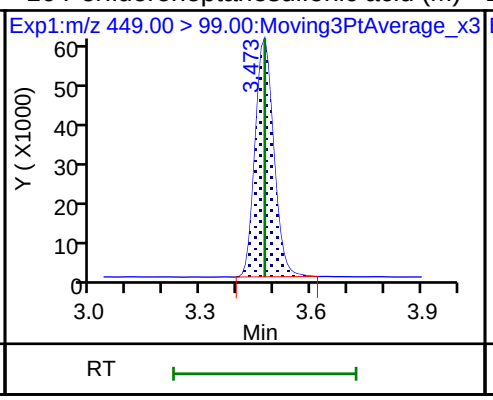
77 DONA



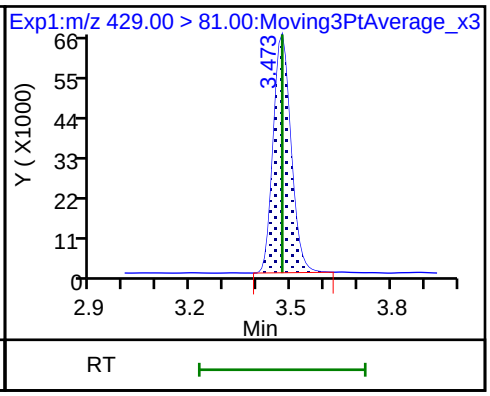
16 Perfluoroheptanesulfonic acid (M)



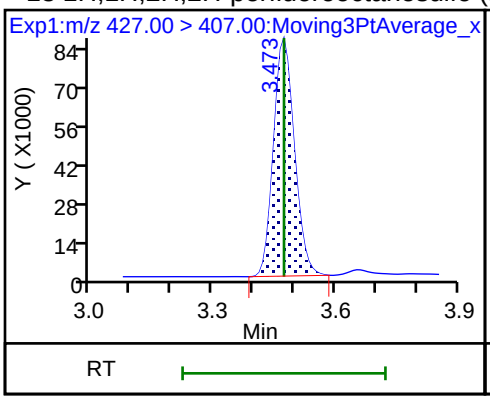
16 Perfluoroheptanesulfonic acid (M)



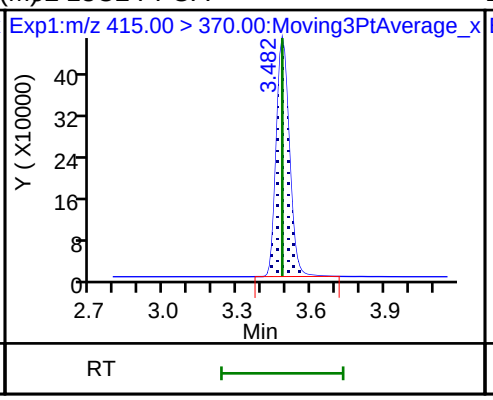
D 12 M2-6:2 FTS



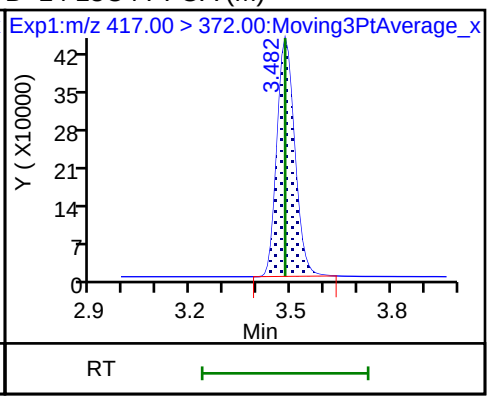
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



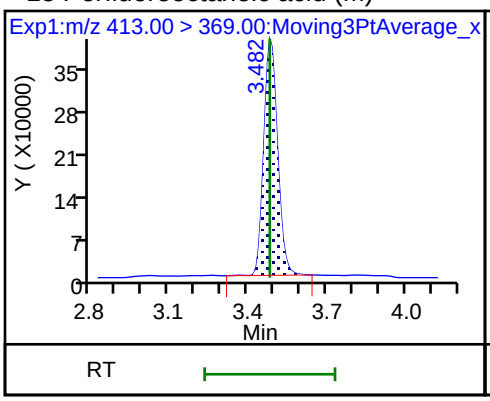
M2 13C2 PFOA



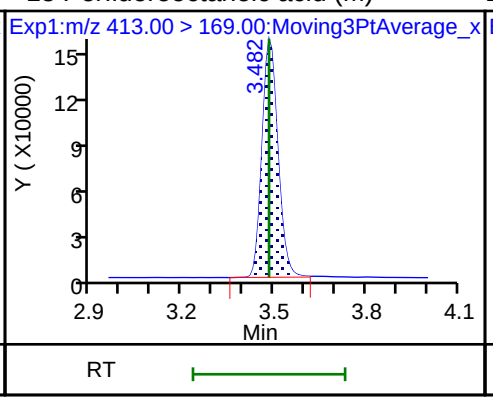
D 14 13C4 PFOA (M)



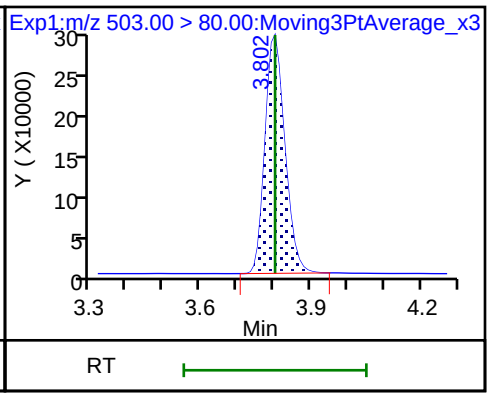
15 Perfluorooctanoic acid (M)



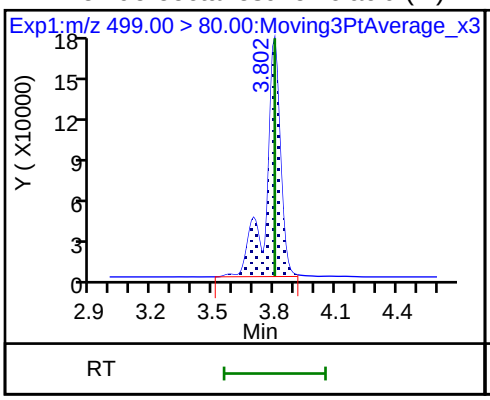
15 Perfluorooctanoic acid (M)



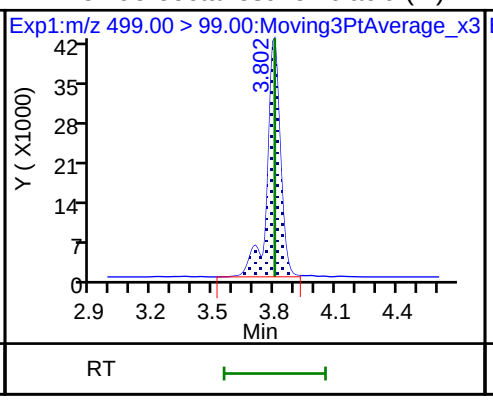
D 18 13C4 PFOS



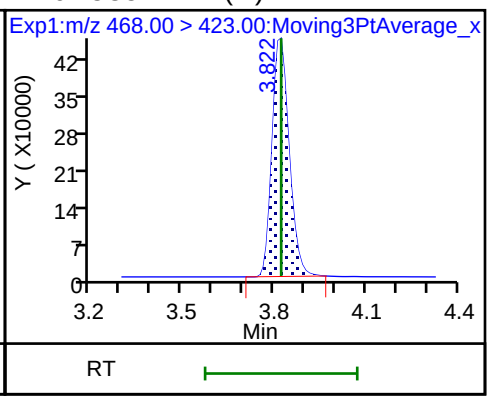
17 Perfluorooctanesulfonic acid (M)



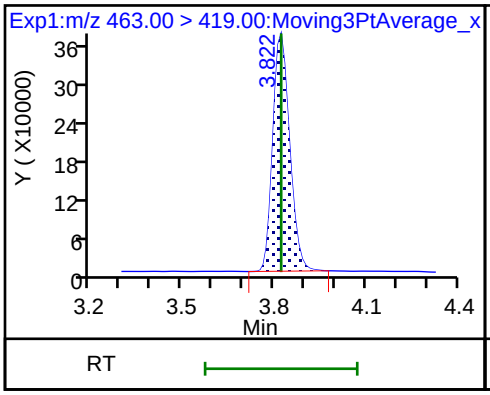
17 Perfluorooctanesulfonic acid (M)



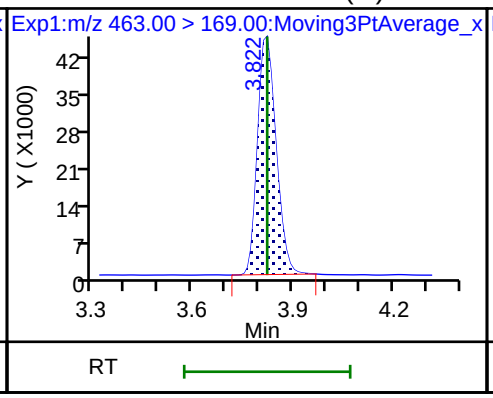
D 19 13C5 PFNA (M)



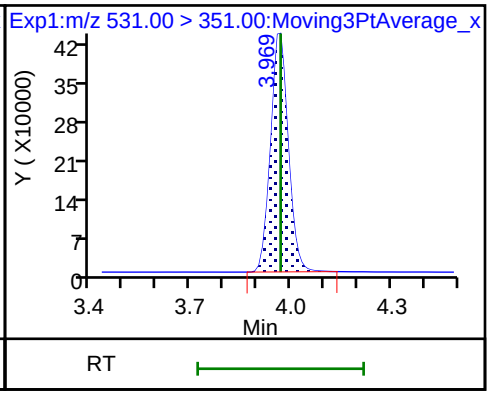
20 Perfluorononanoic acid



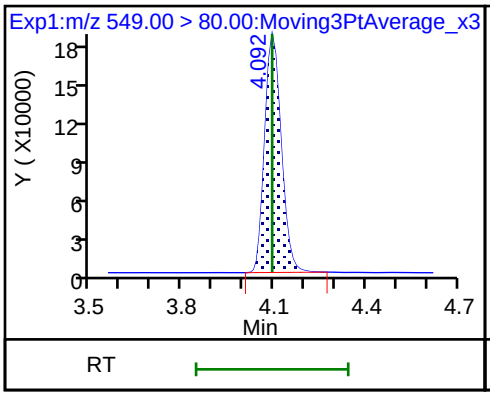
20 Perfluorononanoic acid (M)



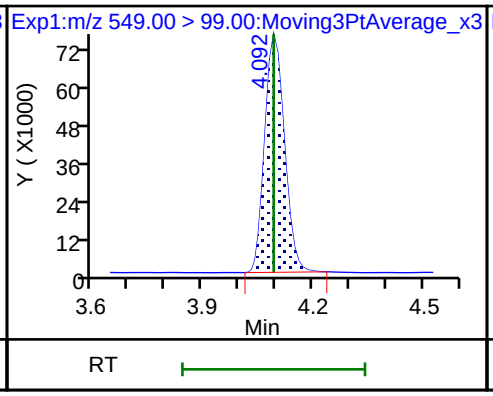
69 9-Chlorohexadecafluoro-3-oxanona (M)



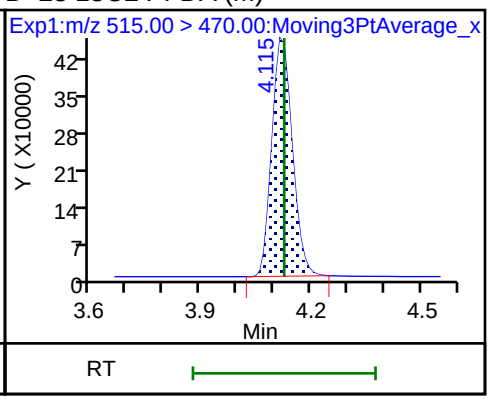
68 Perfluorononanesulfonic acid



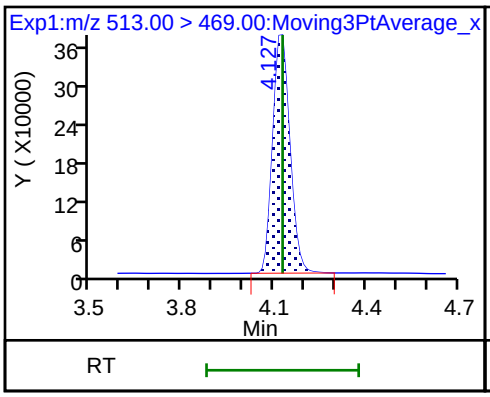
68 Perfluorononanesulfonic acid



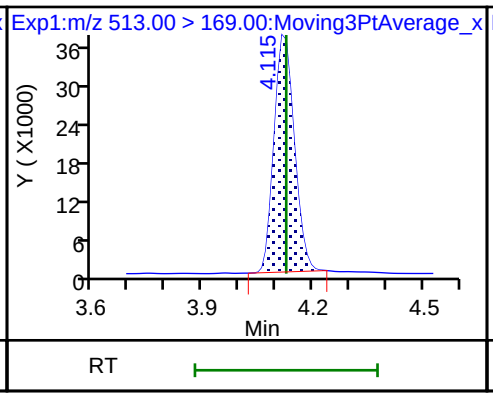
D 23 13C2 PFDA (M)



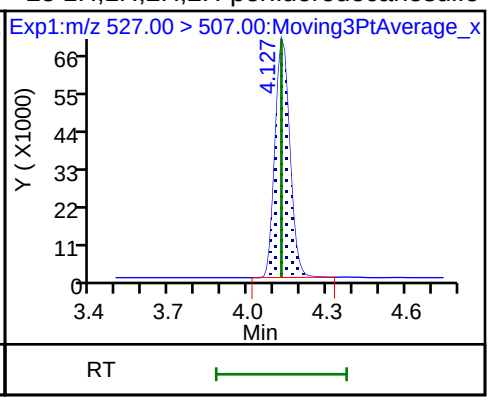
24 Perfluorodecanoic acid



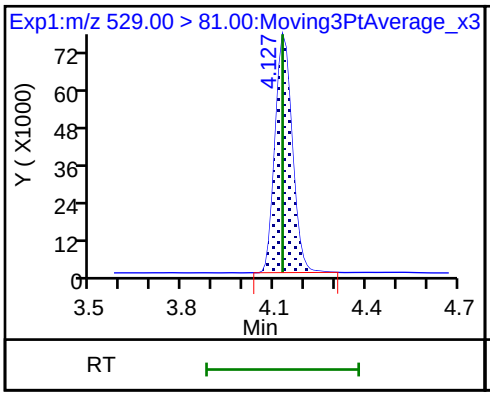
24 Perfluorodecanoic acid



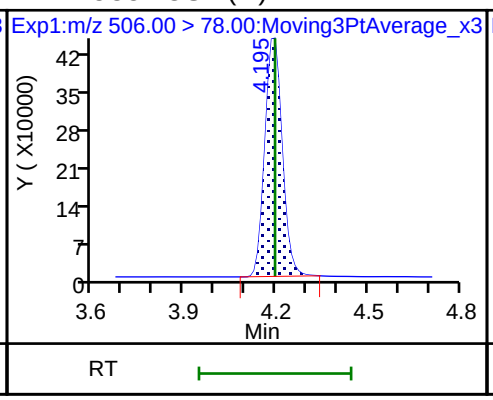
25 1H,1H,2H,2H-perfluorodecanesulfo



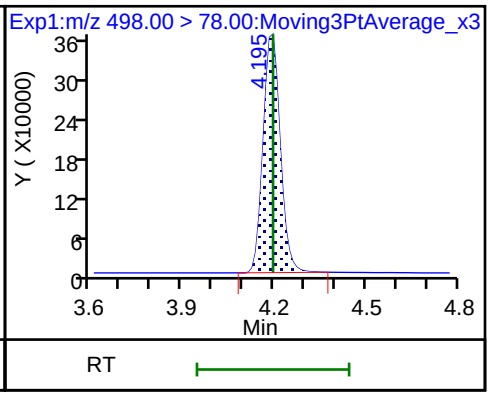
D 26 M2-8:2 FTS



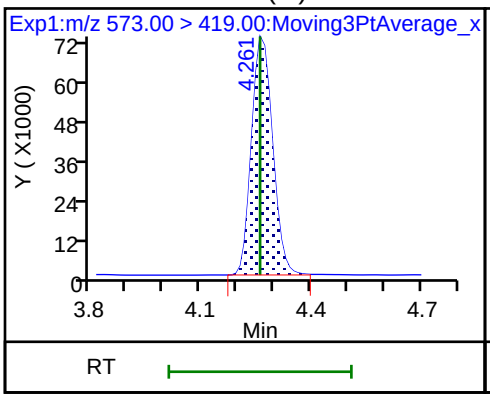
D 21 13C8 FOSA (M)



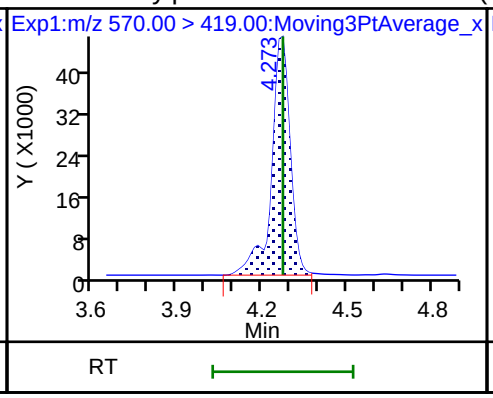
22 Perfluorooctanesulfonamide



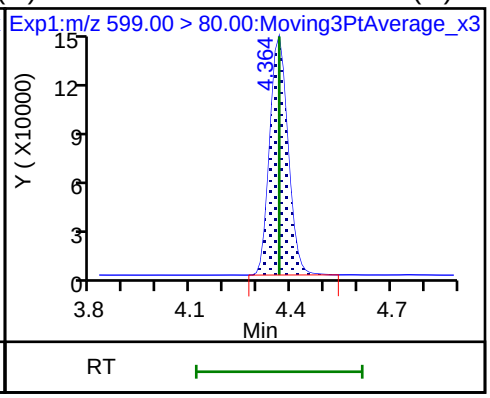
D 27 d3-NMeFOSAA (M)



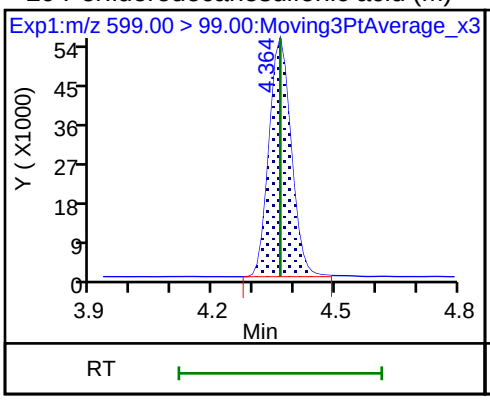
28 N-methylperfluorooctanesulfonami (M)



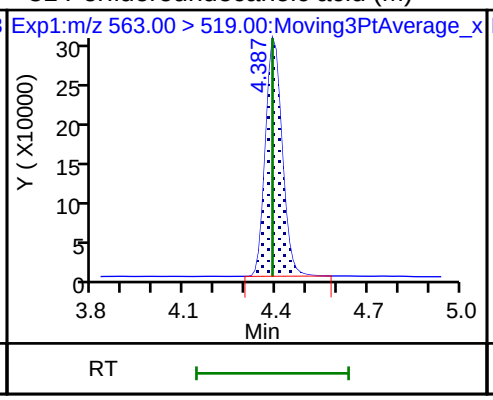
29 Perfluorodecanesulfonic acid (M)



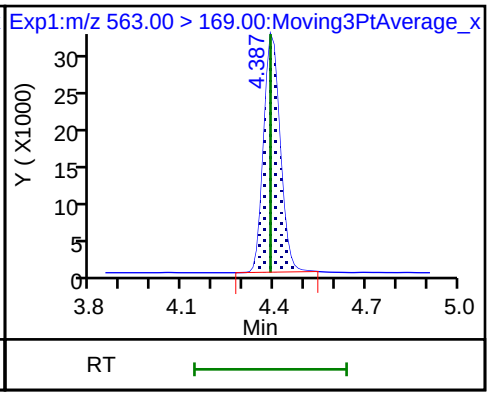
29 Perfluorodecanesulfonic acid (M)



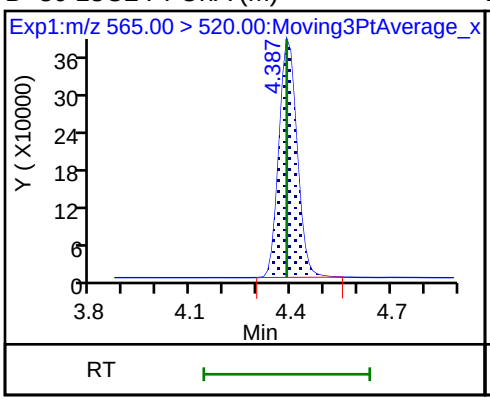
31 Perfluoroundecanoic acid (M)



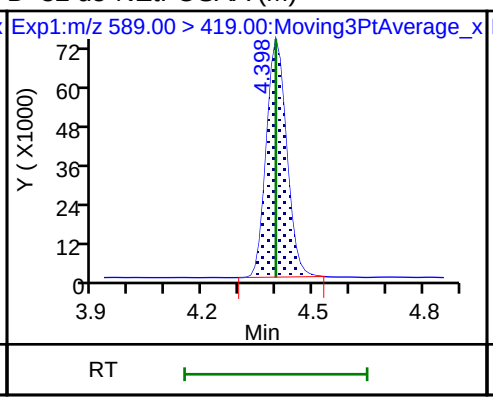
31 Perfluoroundecanoic acid



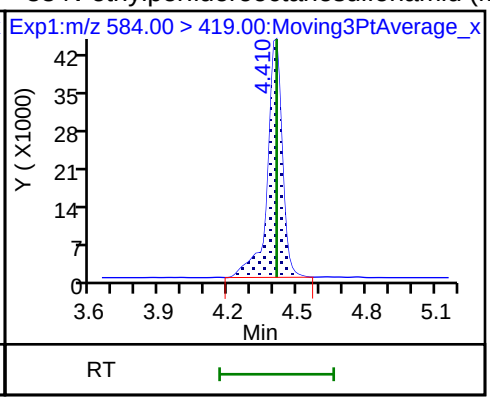
D 30 13C2 PFUnA (M)



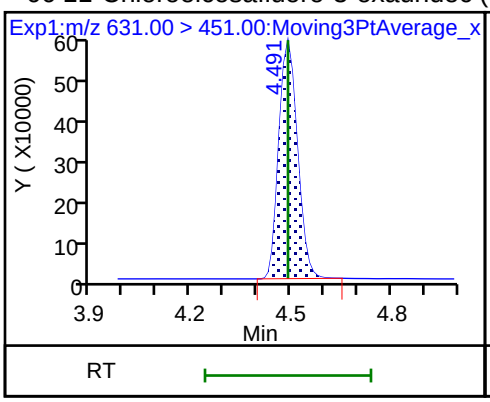
D 32 d5-NEtFOSAA (M)



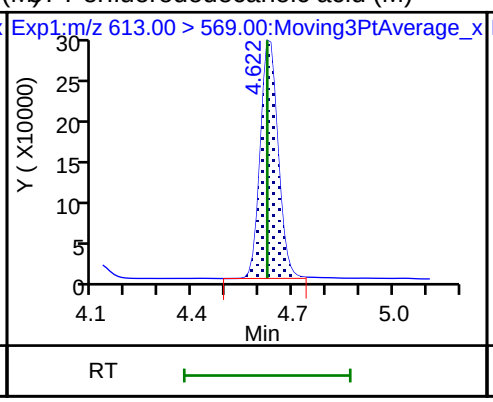
33 N-ethylperfluorooctanesulfonamid (M)



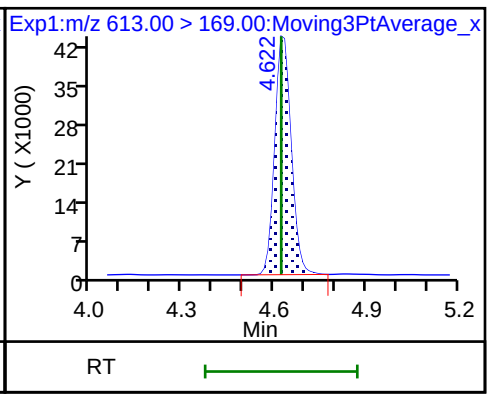
66 11-Chloroeicosafluoro-3-oxaundec (M)



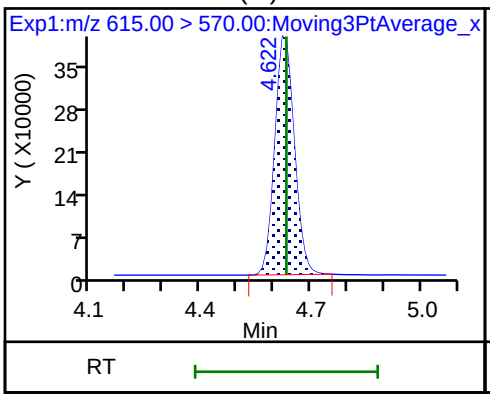
37 Perfluorododecanoic acid (M)



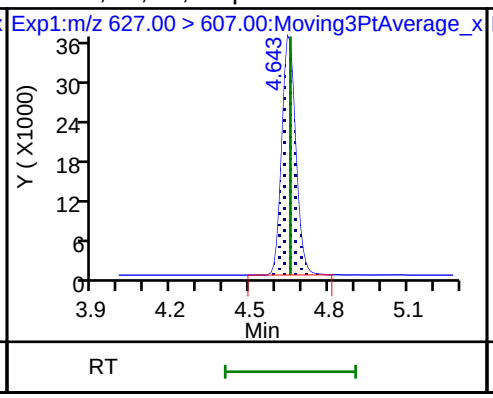
37 Perfluorododecanoic acid



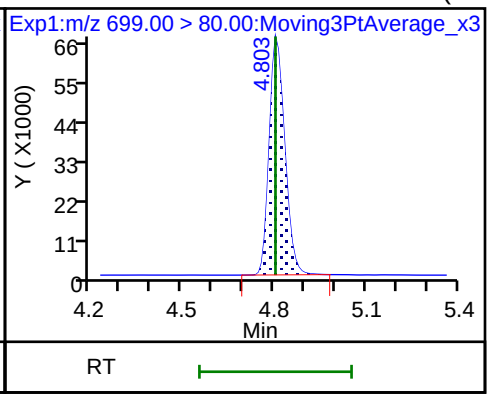
D 36 13C2 PFDoA (M)



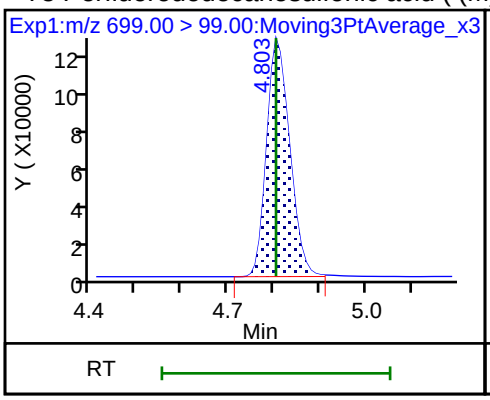
74 1H,1H,2H,2H-perfluorododecanesul



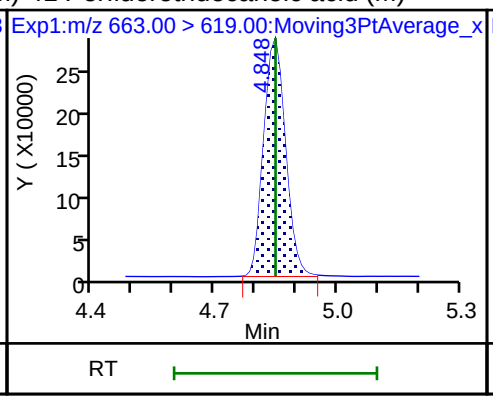
75 Perfluorododecanesulfonic acid (



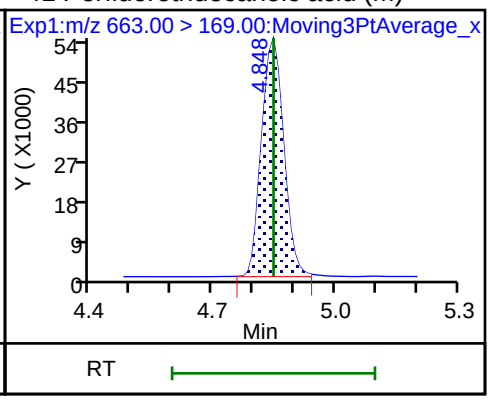
75 Perfluorododecanesulfonic acid ((M)



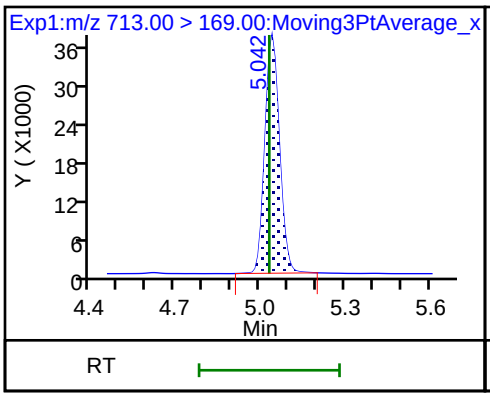
41 Perfluorotridecanoic acid (M)



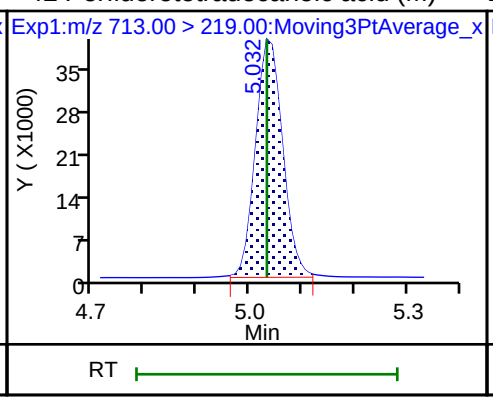
41 Perfluorotridecanoic acid (M)



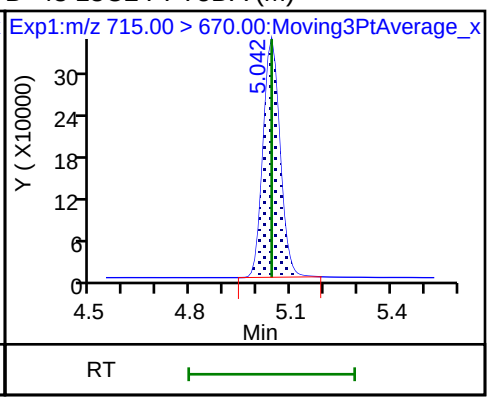
42 Perfluorotetradecanoic acid



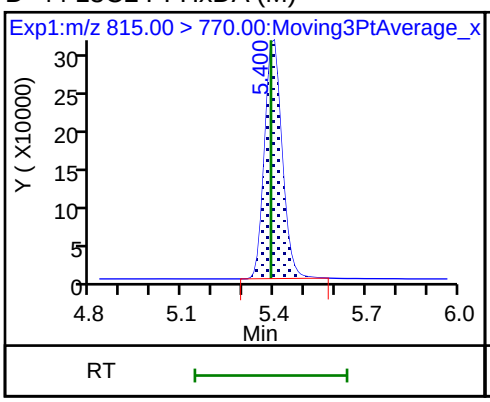
42 Perfluorotetradecanoic acid (M)



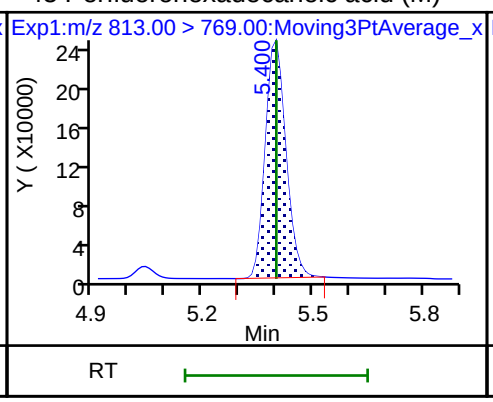
D 43 13C2 PFTeDA (M)



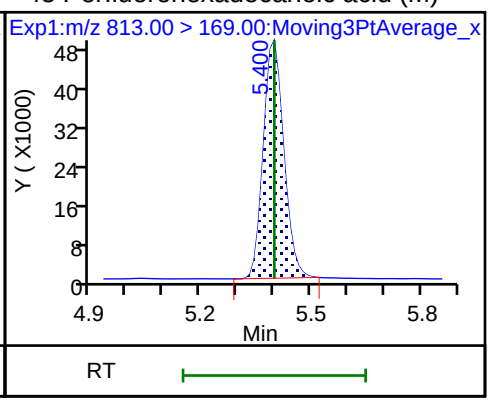
D 44 13C2 PFHxDA (M)



45 Perfluorohexadecanoic acid (M)

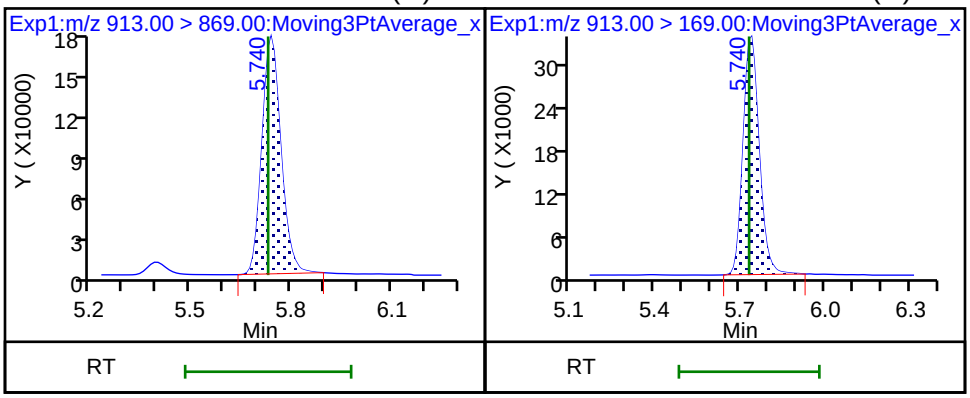


45 Perfluorohexadecanoic acid (M)



Report Date: 14-Jun-2022 14:35:49 Chrom Revision: 2.3 18-May-2022 20:00:04
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d

46 Perfluorooctadecanoic acid (M) 46 Perfluorooctadecanoic acid (M)



Manual Integration/User Assign Peak Report

Eurofins Burlington

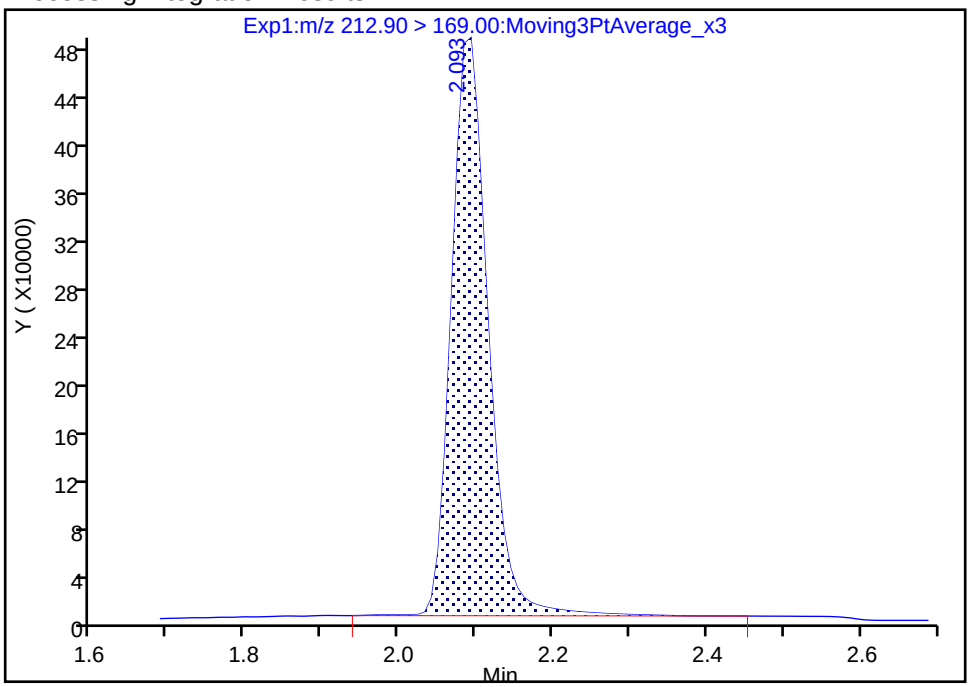
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

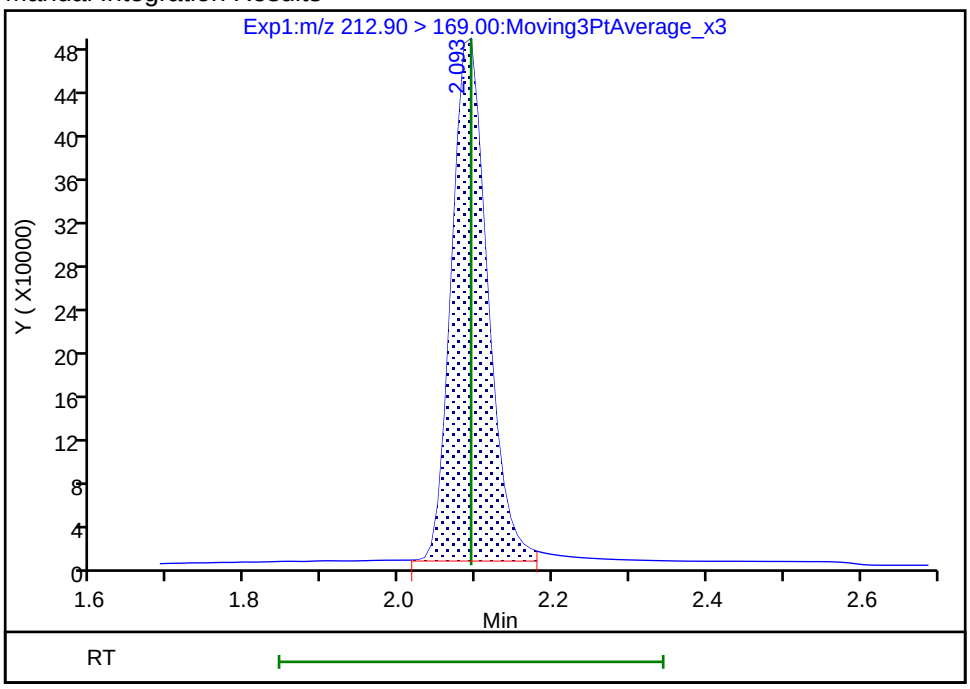
Processing Integration Results

RT: 2.09
Area: 1589233
Amount: 0.971672
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 1556893
Amount: 0.951899
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:16:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

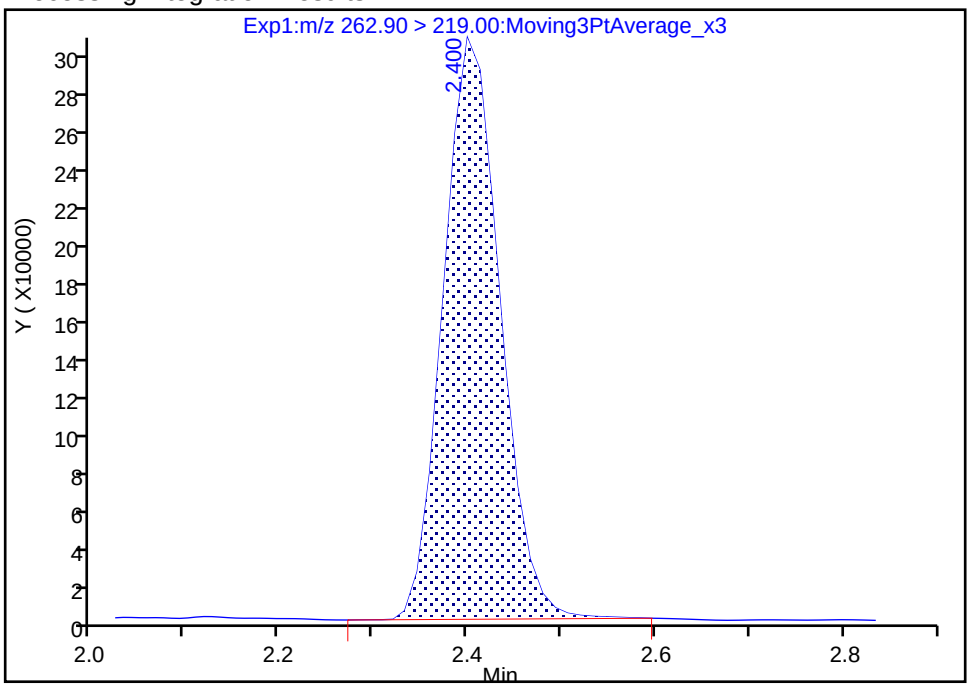
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

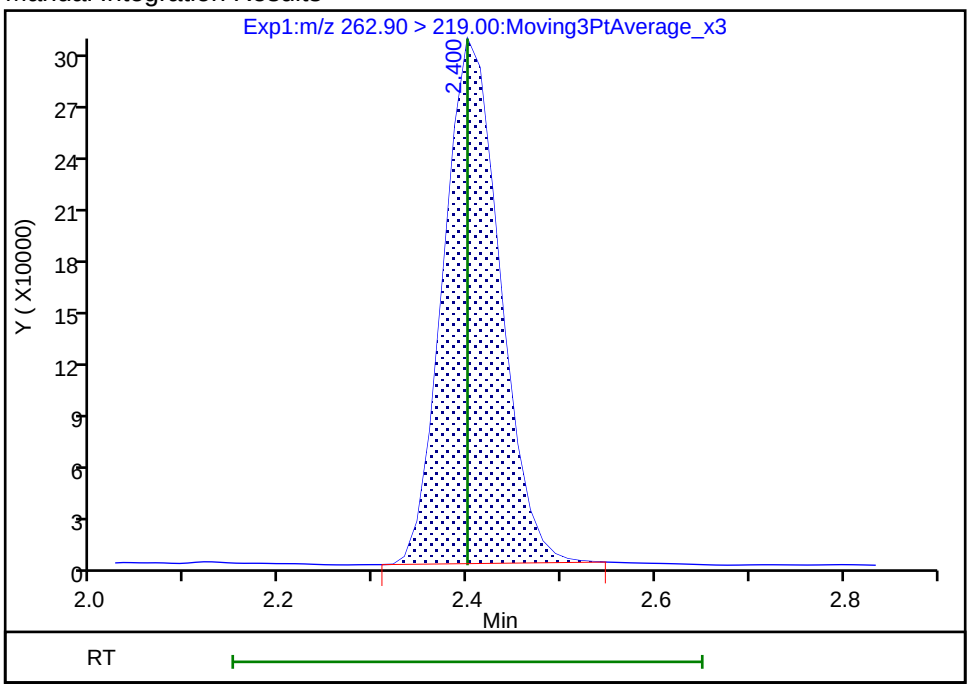
Processing Integration Results

RT: 2.40
Area: 1270699
Amount: 0.967654
Amount Units: ng/ml



Manual Integration Results

RT: 2.40
Area: 1262821
Amount: 0.961655
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:15:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

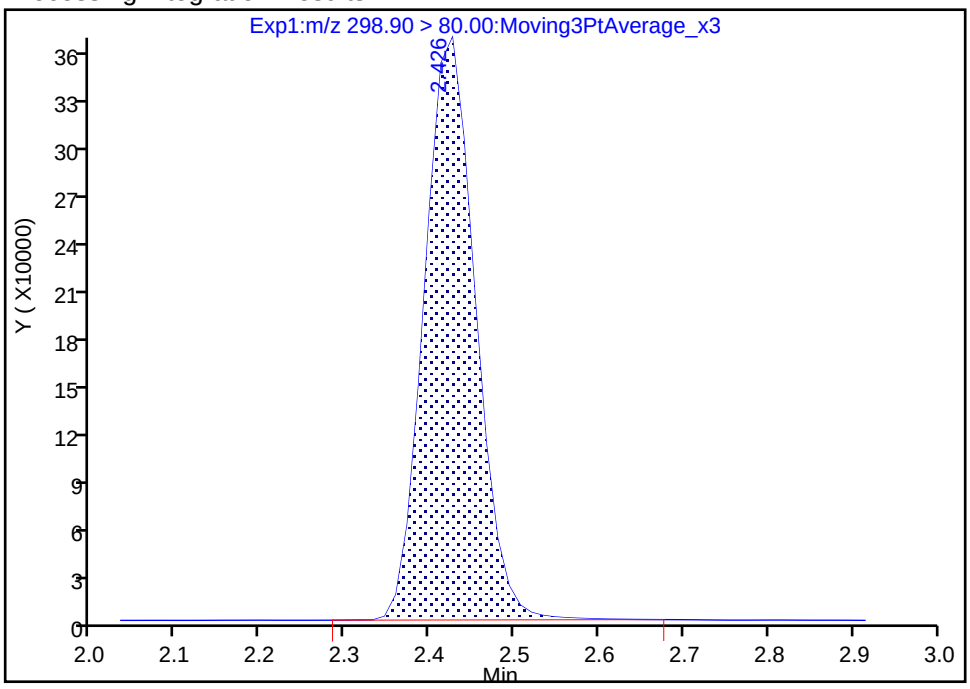
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

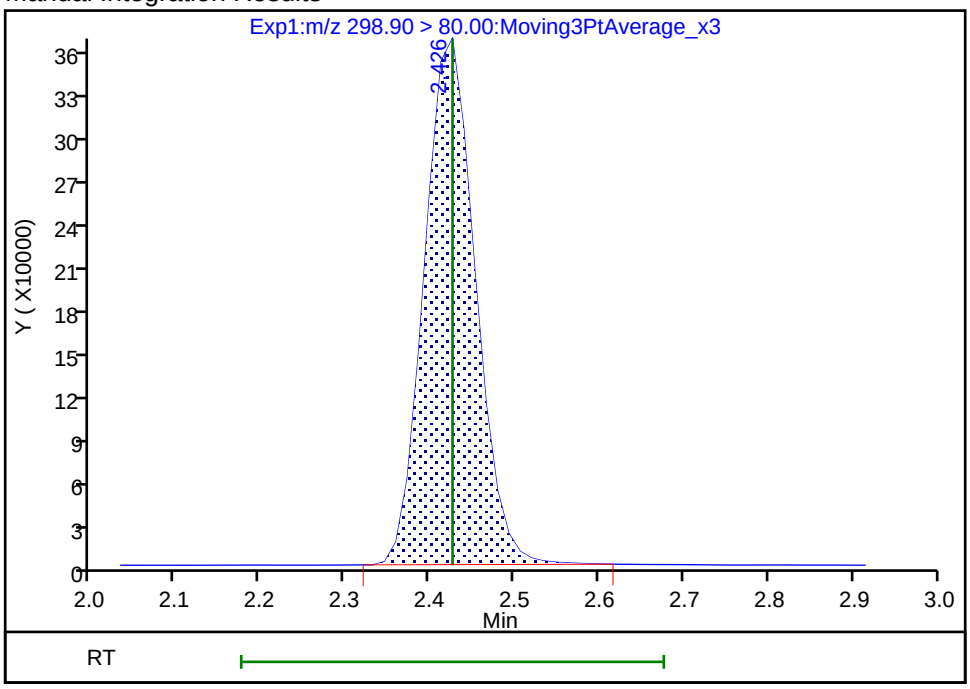
Processing Integration Results

RT: 2.43
Area: 1528983
Amount: 0.862315
Amount Units: ng/ml



Manual Integration Results

RT: 2.43
Area: 1524791
Amount: 0.859950
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:23:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

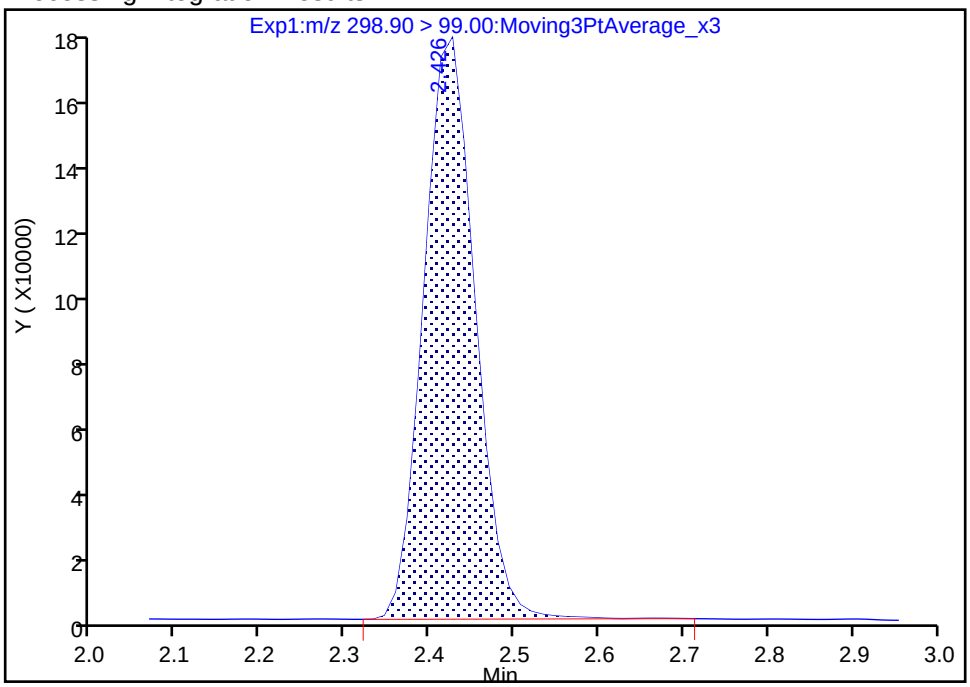
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

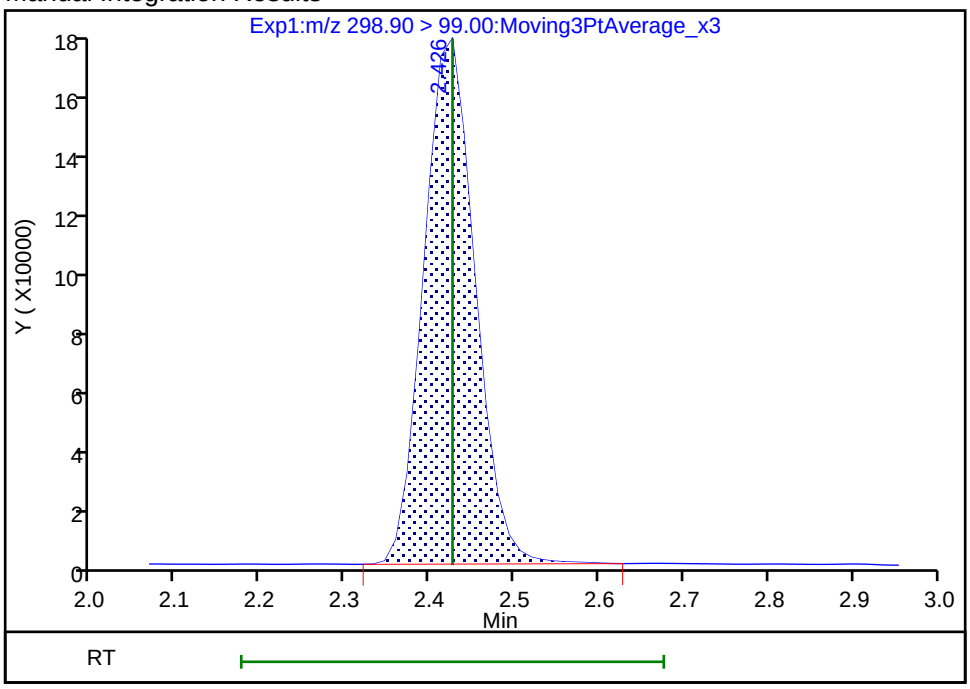
Processing Integration Results

RT: 2.43
Area: 717154
Amount: 0.862315
Amount Units: ng/ml



Manual Integration Results

RT: 2.43
Area: 716088
Amount: 0.859950
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:24:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

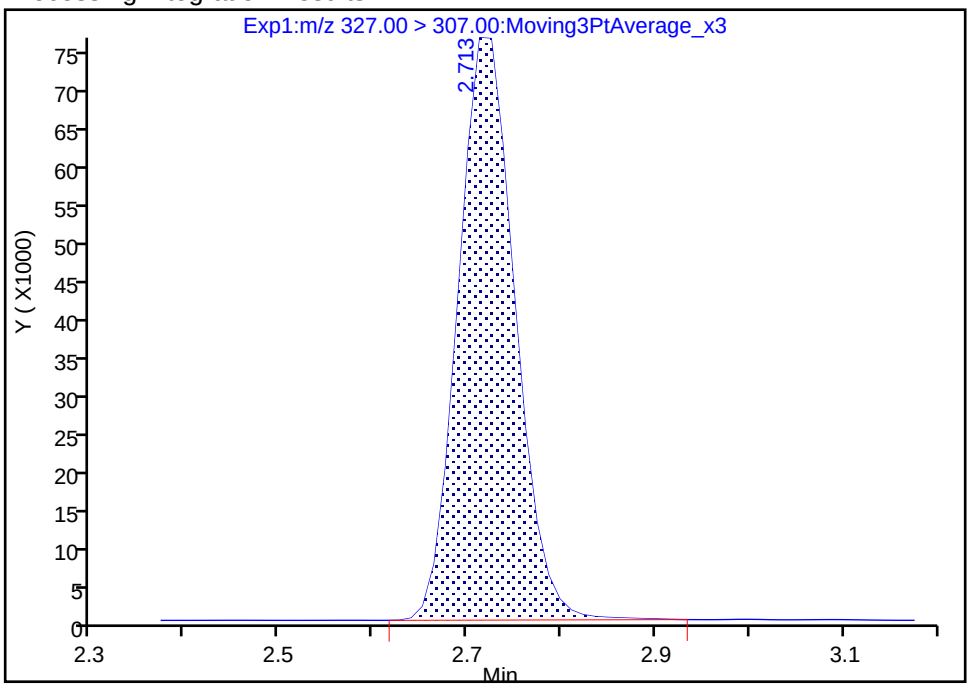
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

61 1H,1H,2H,2H-perfluorohexanesulfo, CAS: 757124-72-4

Signal: 1

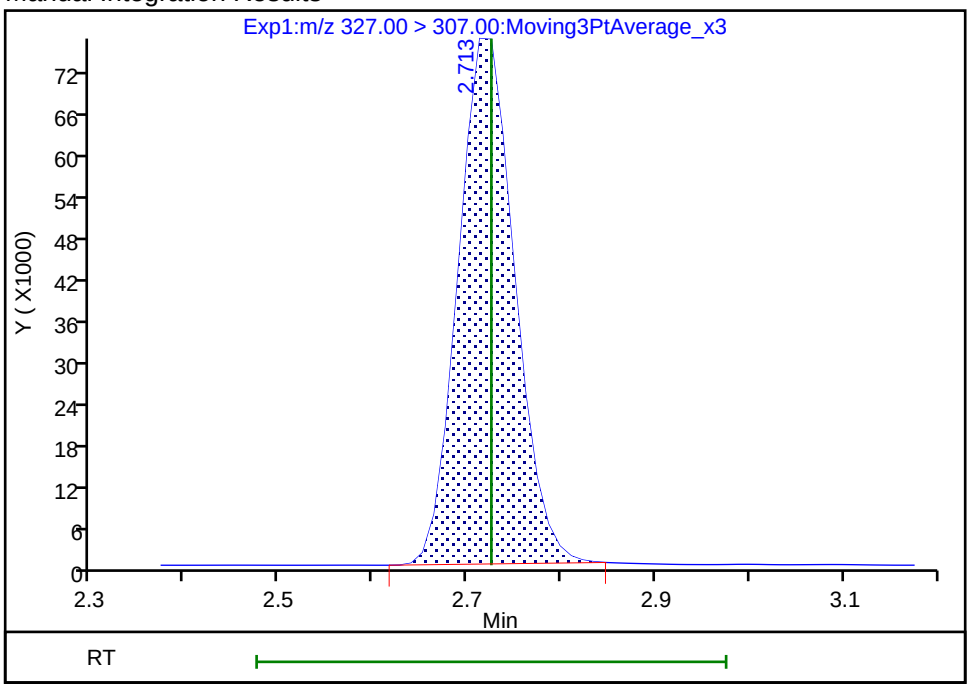
Processing Integration Results

RT: 2.71
Area: 319980
Amount: 0.948843
Amount Units: ng/ml



Manual Integration Results

RT: 2.71
Area: 316996
Amount: 0.939994
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:15:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

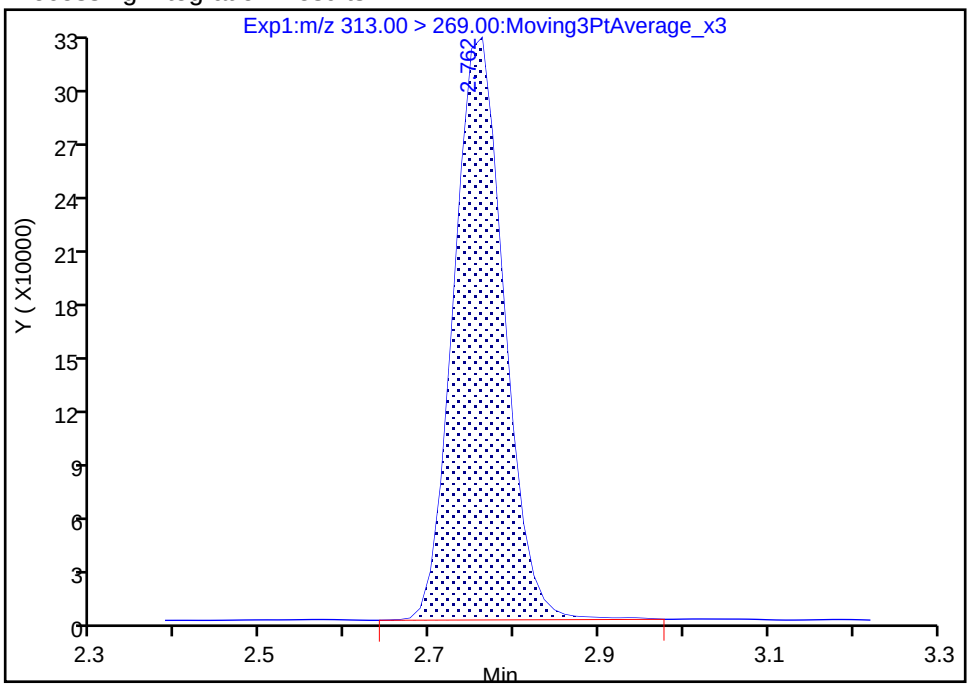
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d				
Injection Date:	13-Jun-2022 19:19:48	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

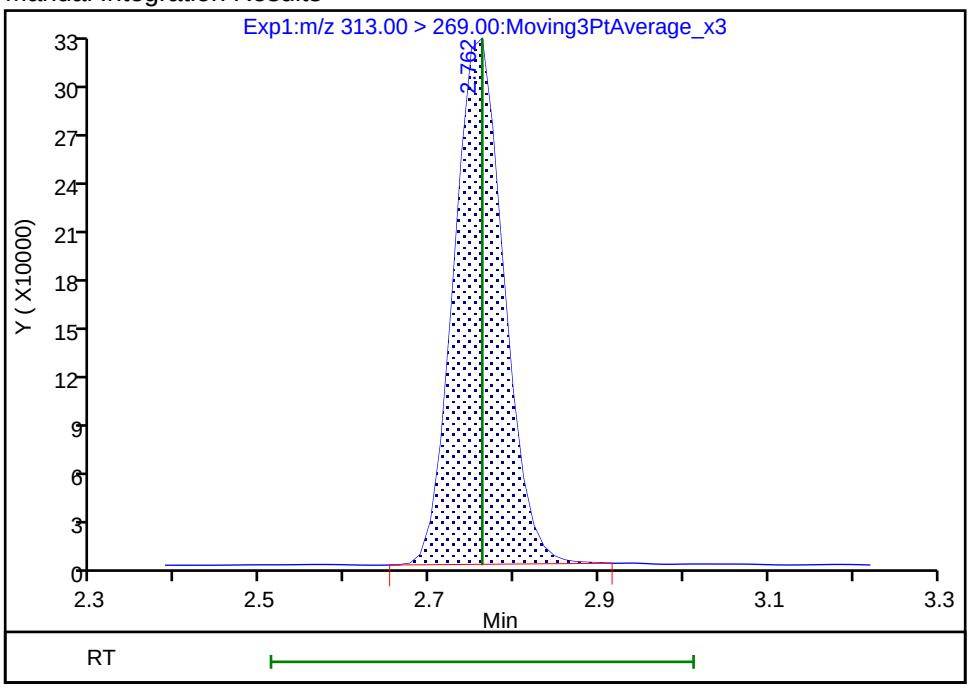
Processing Integration Results

RT: 2.76
Area: 1334894
Amount: 0.988431
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 1326436
Amount: 0.982169
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:24:12

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

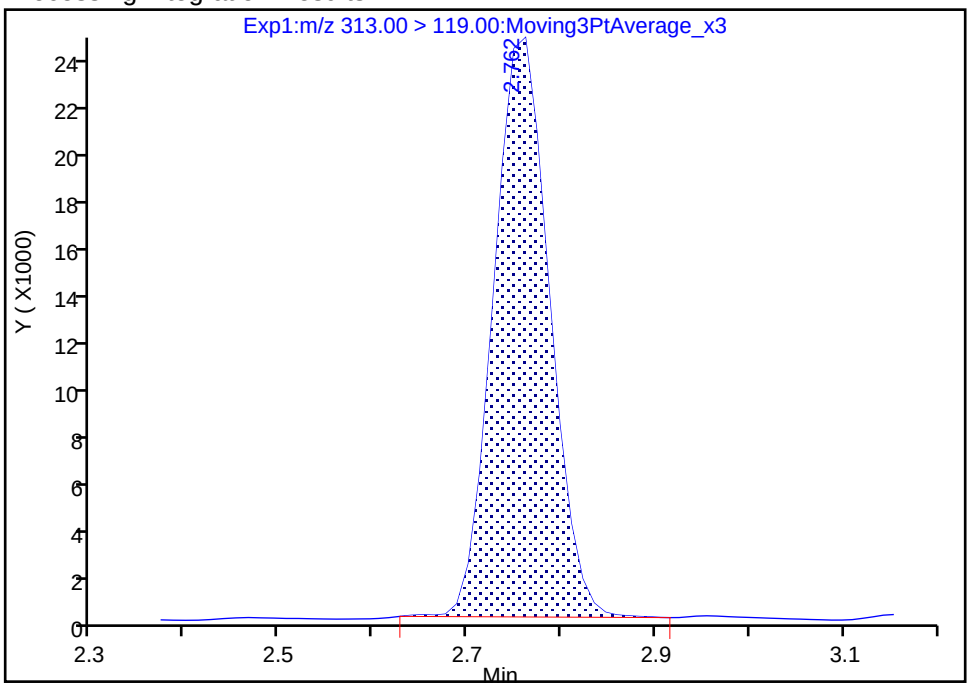
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

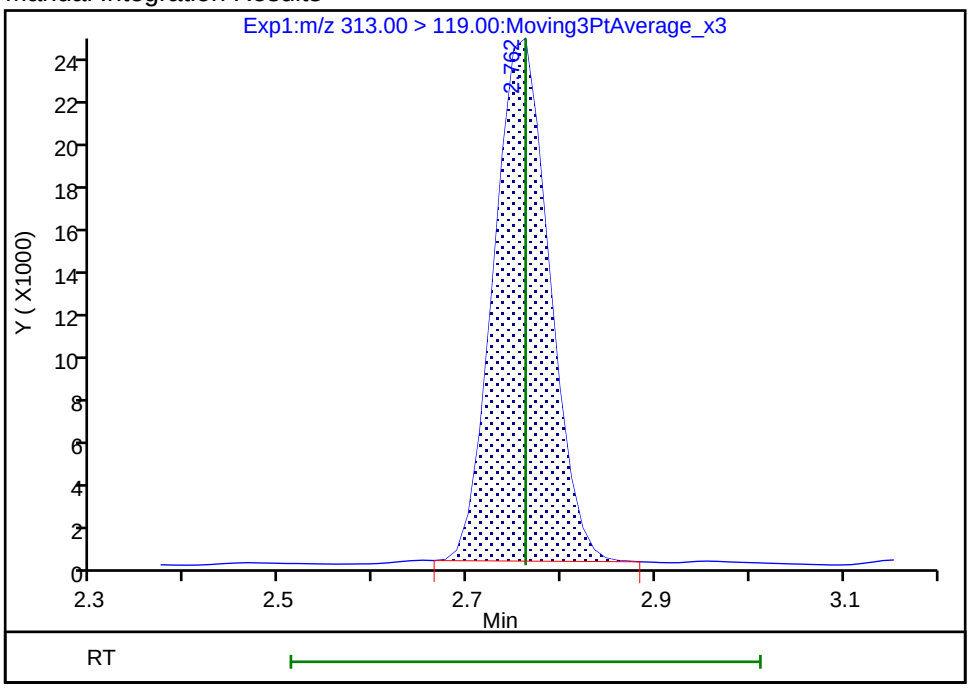
Processing Integration Results

RT: 2.76
Area: 100655
Amount: 0.988431
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 99884
Amount: 0.982169
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:24:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

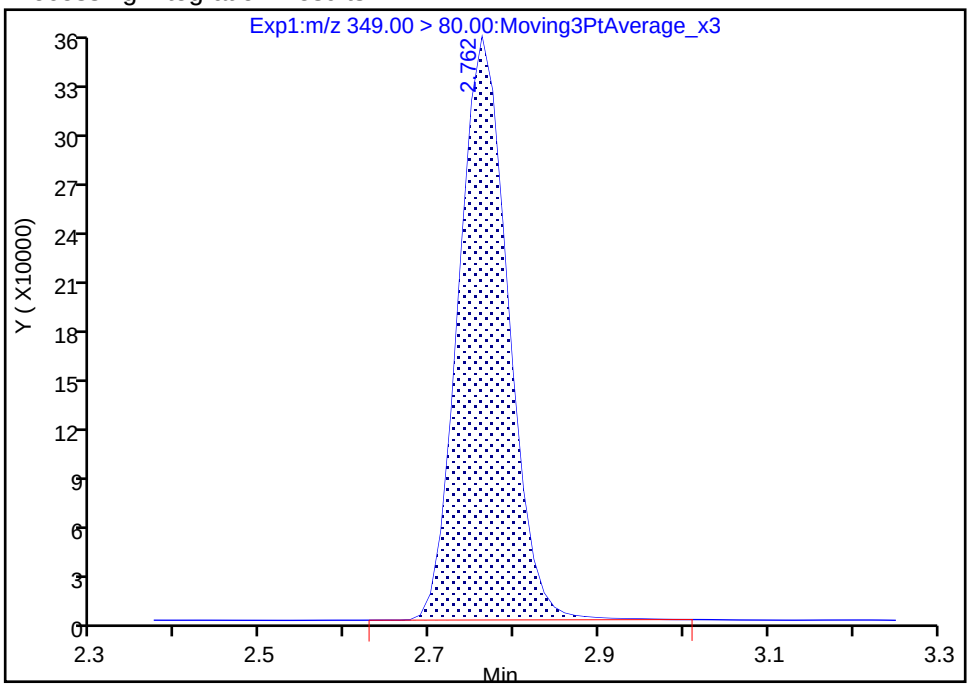
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

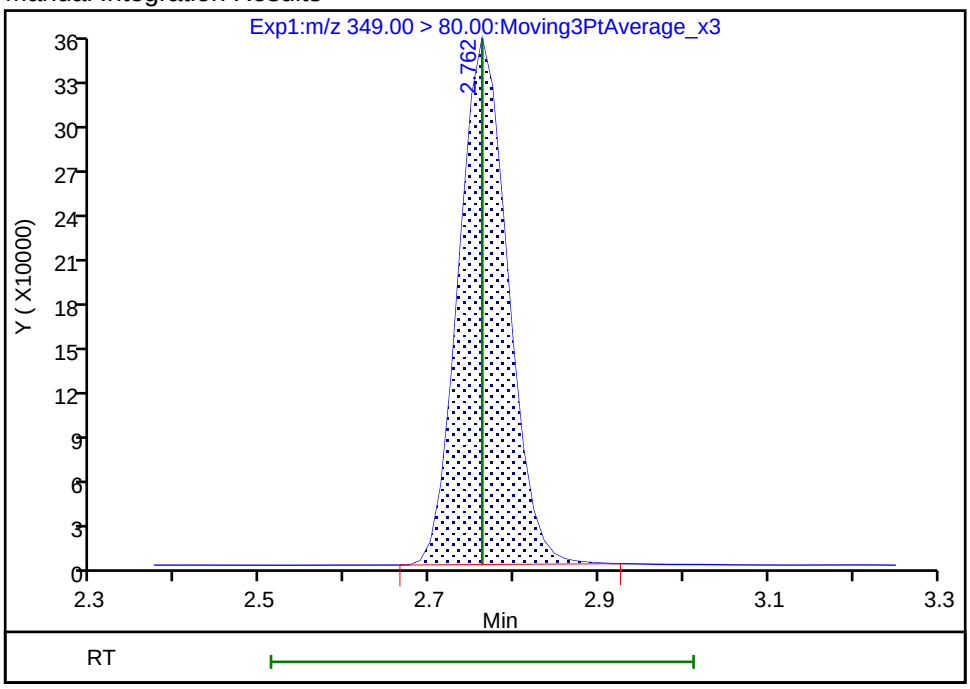
Processing Integration Results

RT: 2.76
Area: 1421650
Amount: 0.948132
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 1415293
Amount: 0.952454
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:24:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

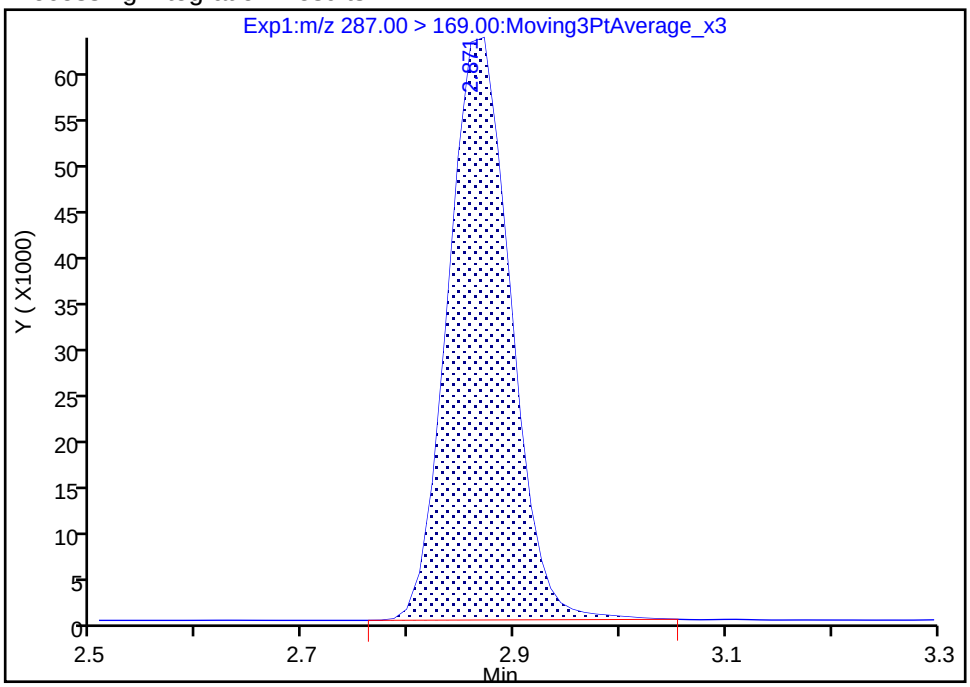
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d				
Injection Date:	13-Jun-2022 19:19:48	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 64 13C3 HFPO-DA, CAS: STL02255

Signal: 1

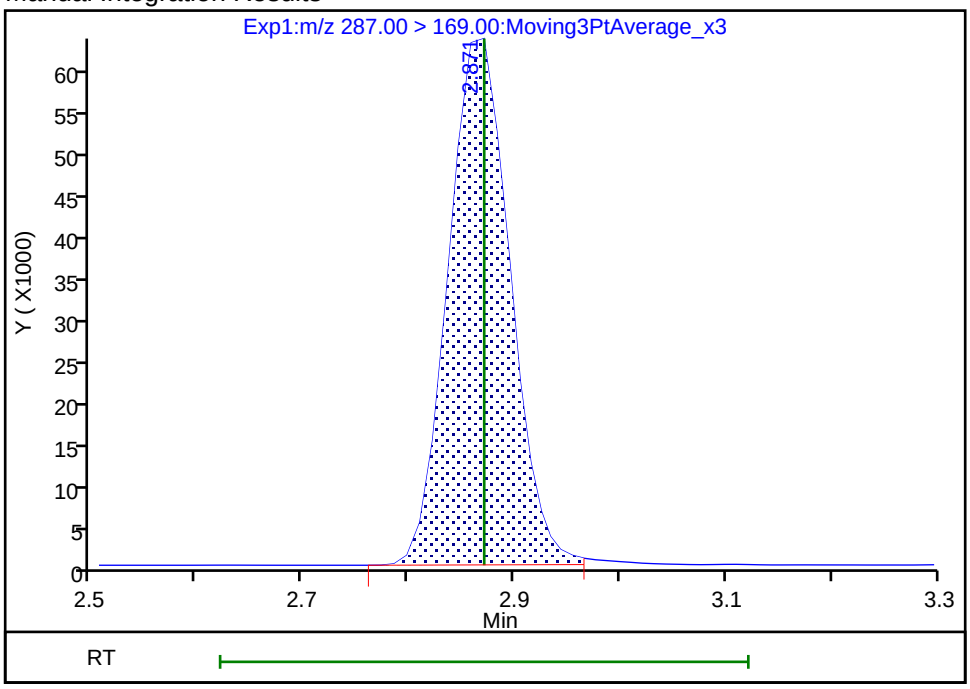
Processing Integration Results

RT: 2.87
Area: 261560
Amount: 1.353169
Amount Units: ng/ml



Manual Integration Results

RT: 2.87
Area: 260036
Amount: 1.345284
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:15:26

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

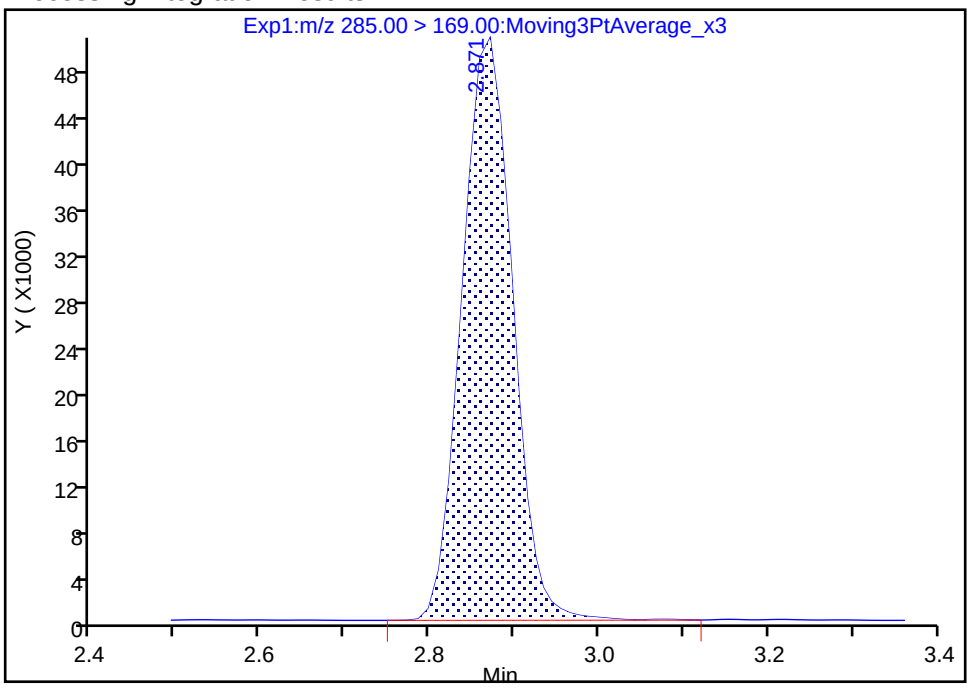
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

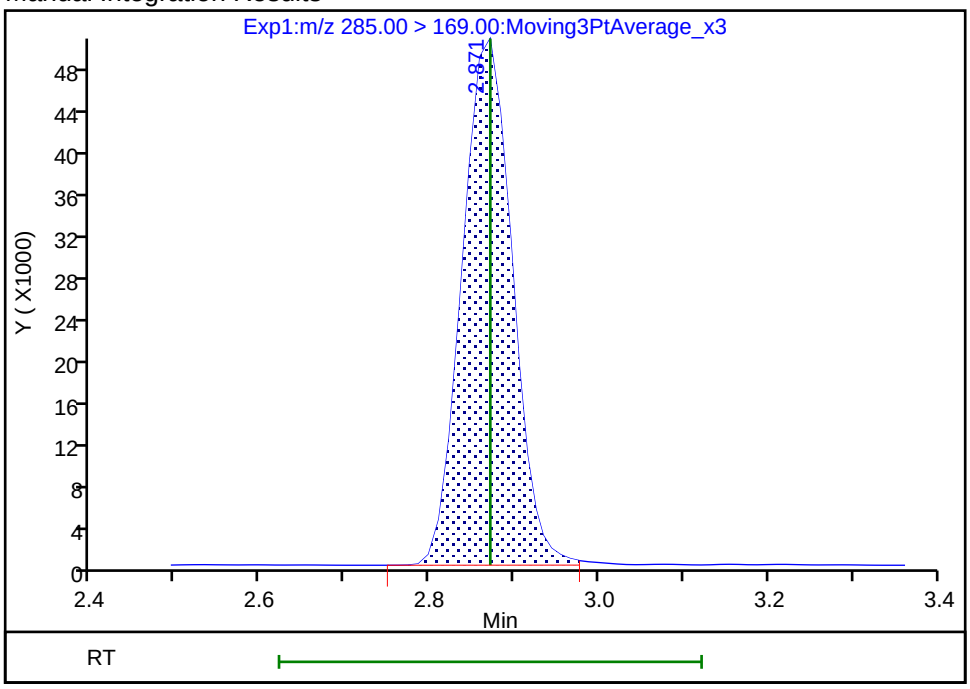
Processing Integration Results

RT: 2.87
Area: 208332
Amount: 0.917721
Amount Units: ng/ml



Manual Integration Results

RT: 2.87
Area: 207389
Amount: 0.913567
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:15:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

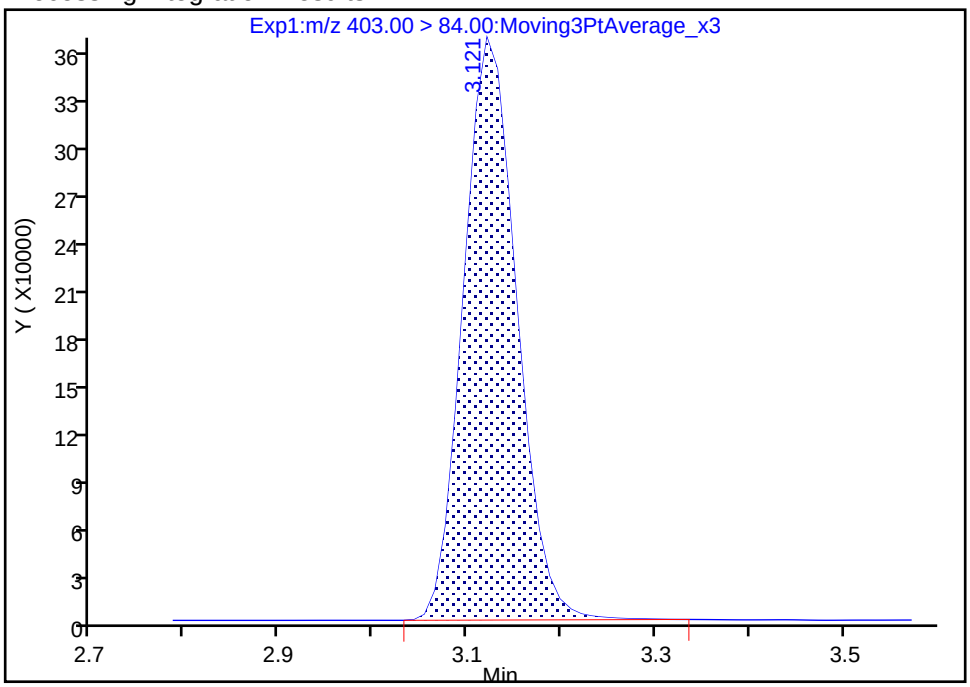
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d				
Injection Date:	13-Jun-2022 19:19:48	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

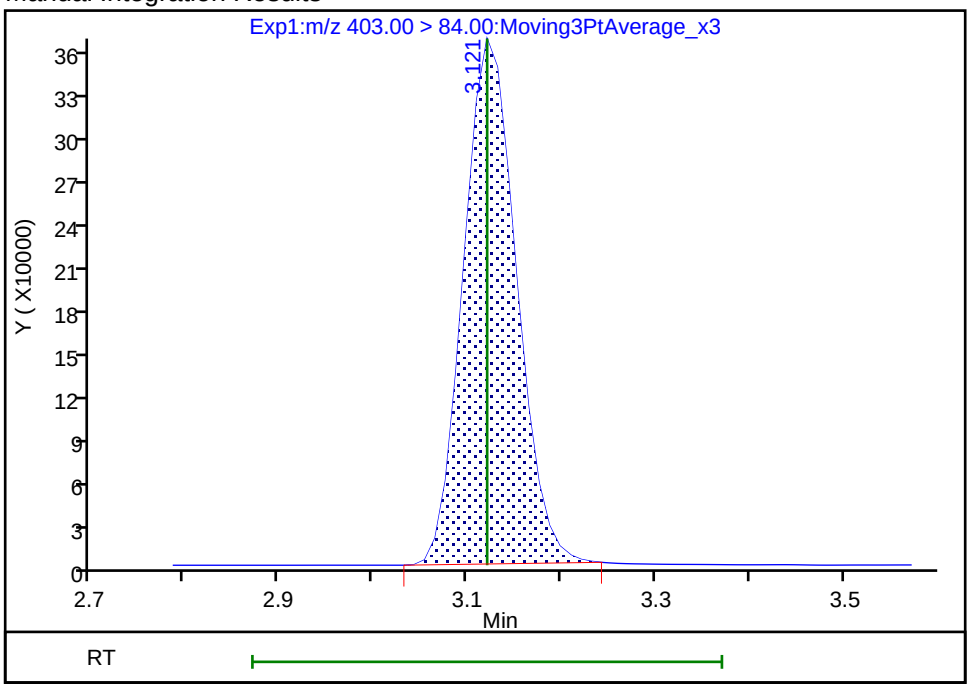
Processing Integration Results

RT: 3.12
Area: 1435679
Amount: 1.146343
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 1422773
Amount: 1.136038
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:15:42

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

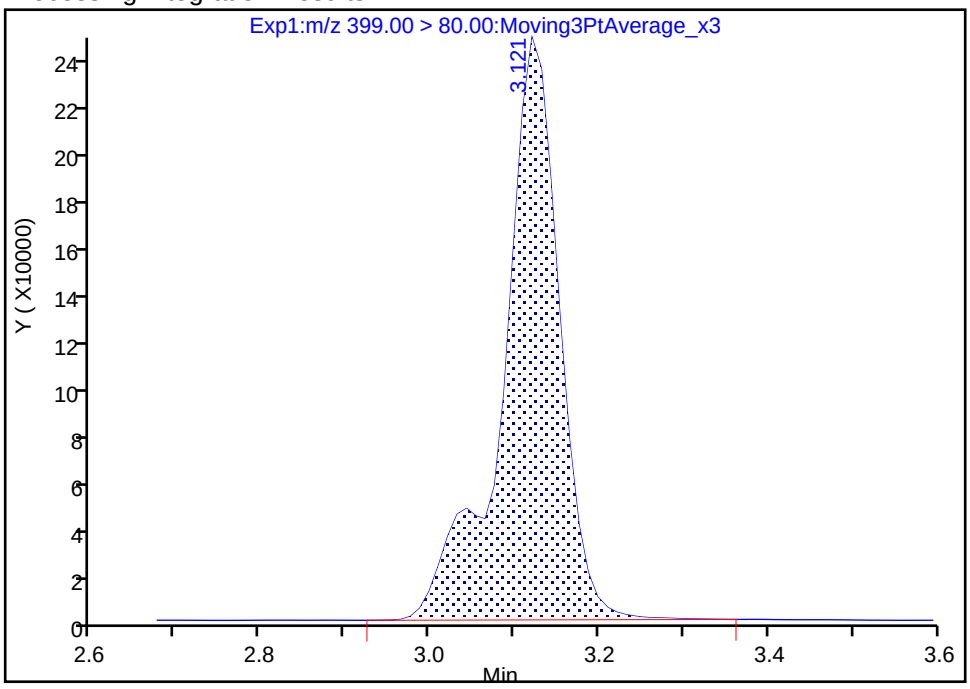
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d				
Injection Date:	13-Jun-2022 19:19:48	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

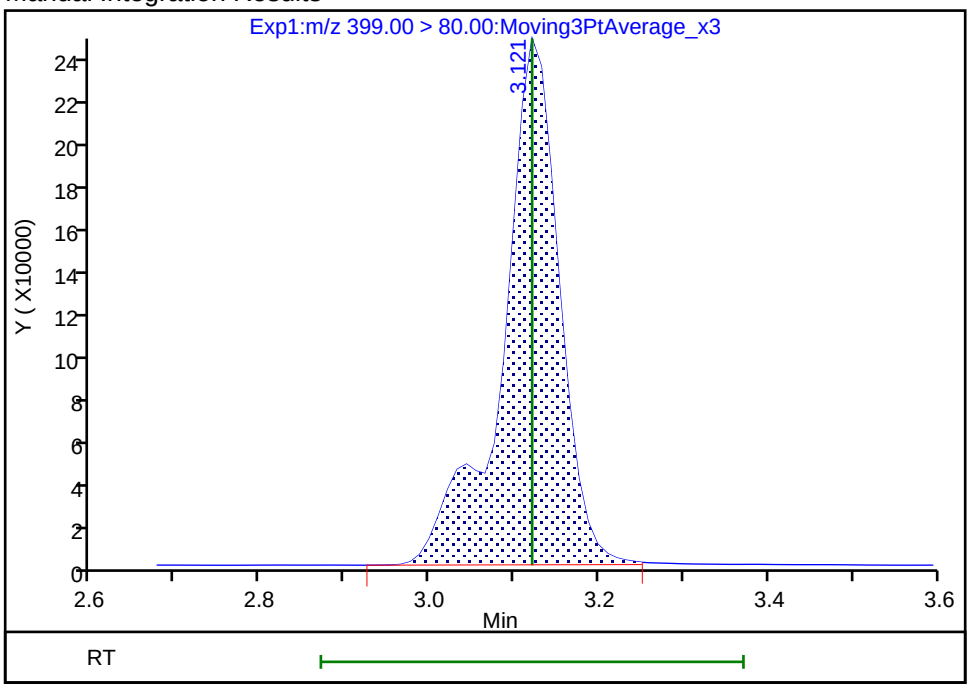
Processing Integration Results

RT: 3.12
Area: 1149142
Amount: 0.856337
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 1146708
Amount: 0.862274
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:24:39

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

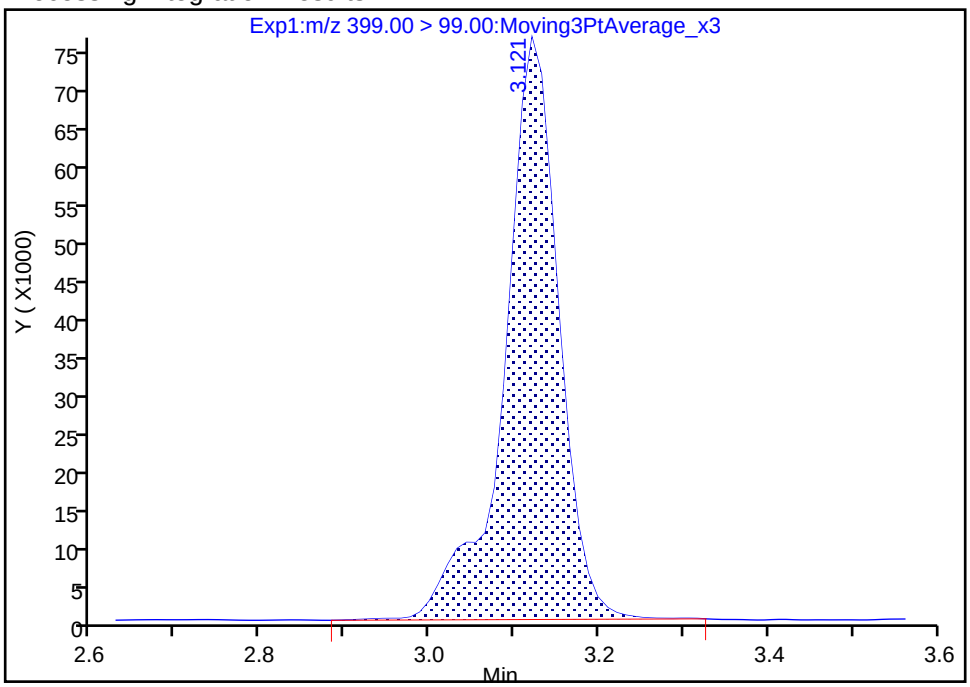
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

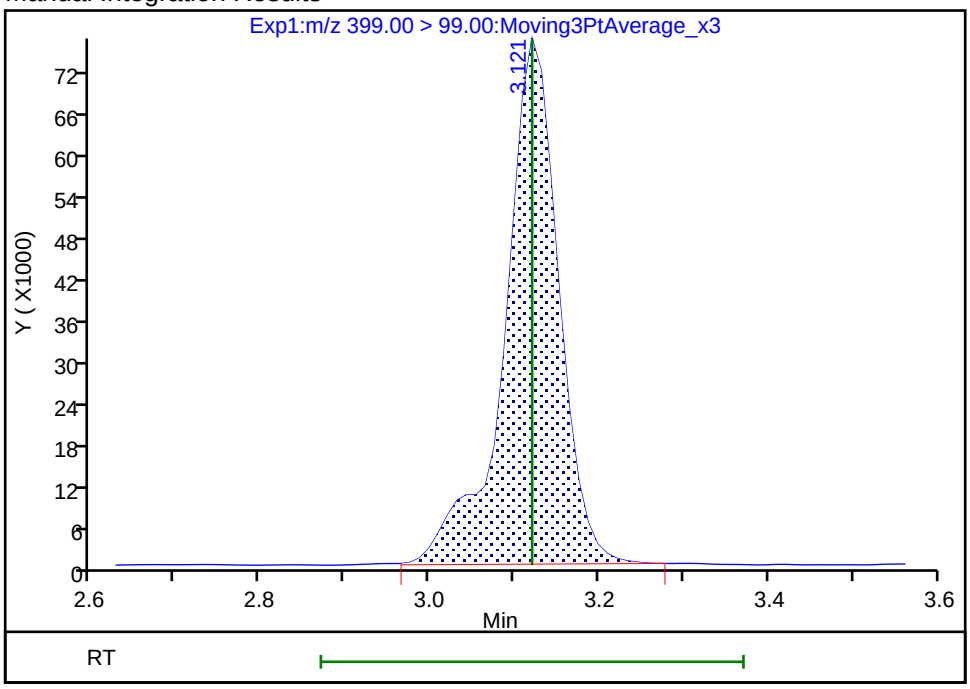
Processing Integration Results

RT: 3.12
Area: 341755
Amount: 0.856337
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 340042
Amount: 0.862274
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:24:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

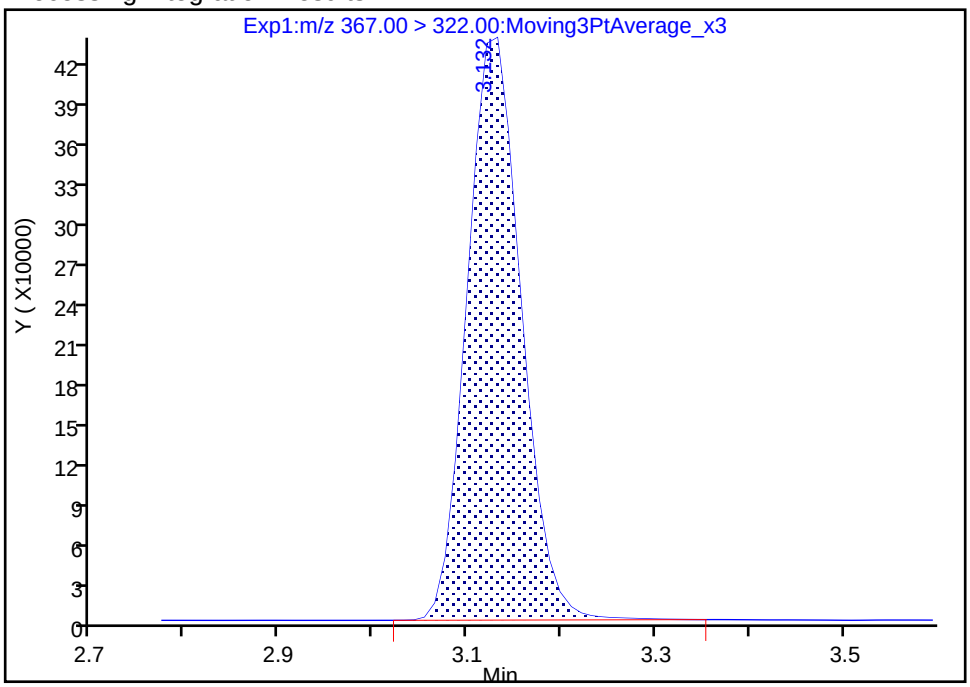
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d				
Injection Date:	13-Jun-2022 19:19:48	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

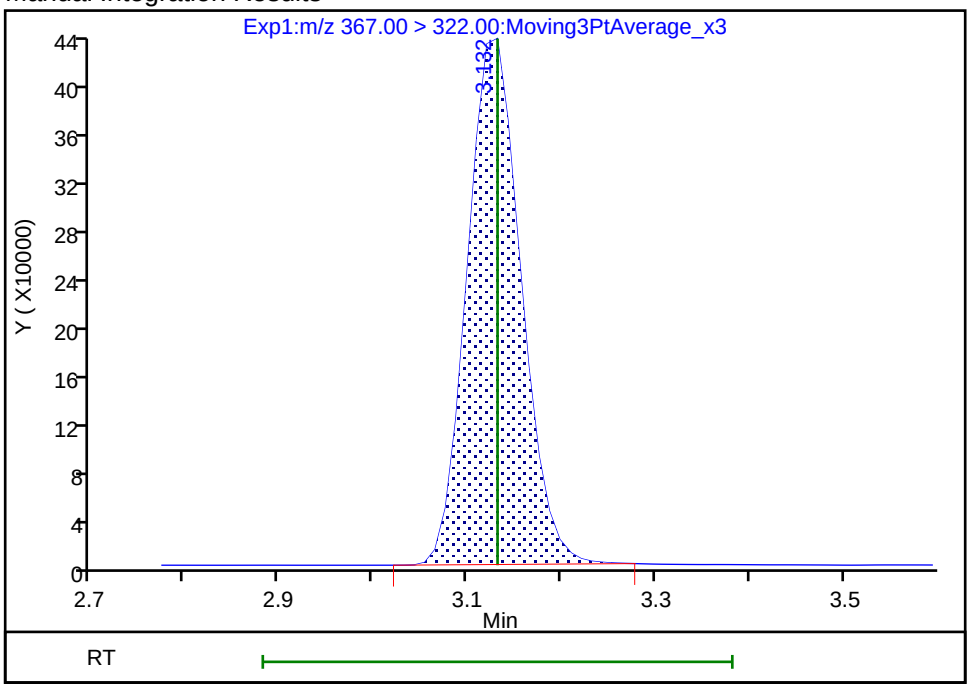
Processing Integration Results

RT: 3.13
Area: 1733767
Amount: 1.423039
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 1724975
Amount: 1.415823
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:15:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

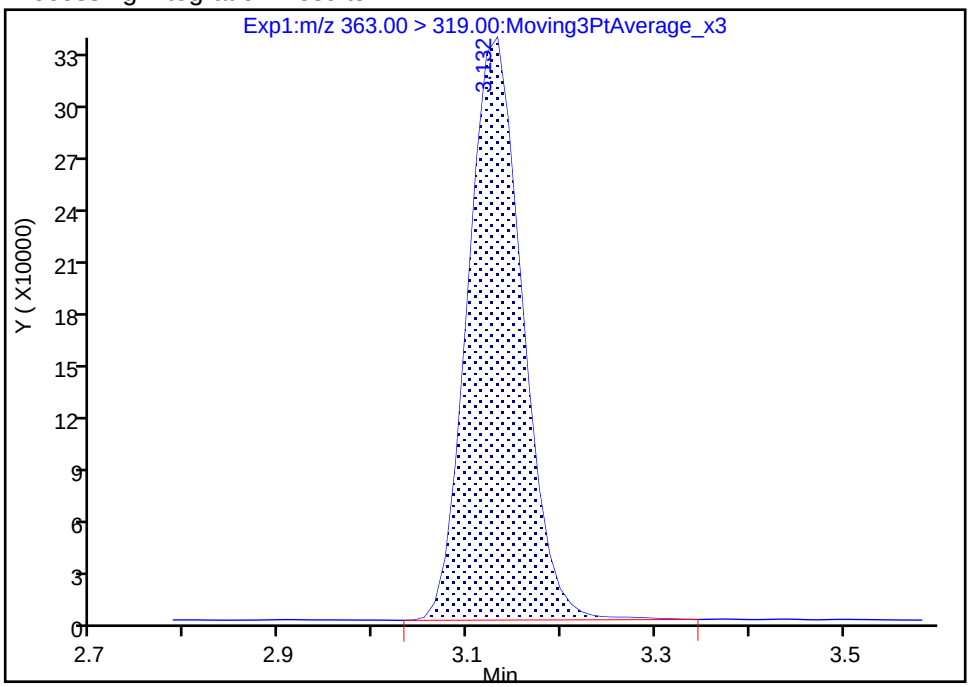
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d				
Injection Date:	13-Jun-2022 19:19:48	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

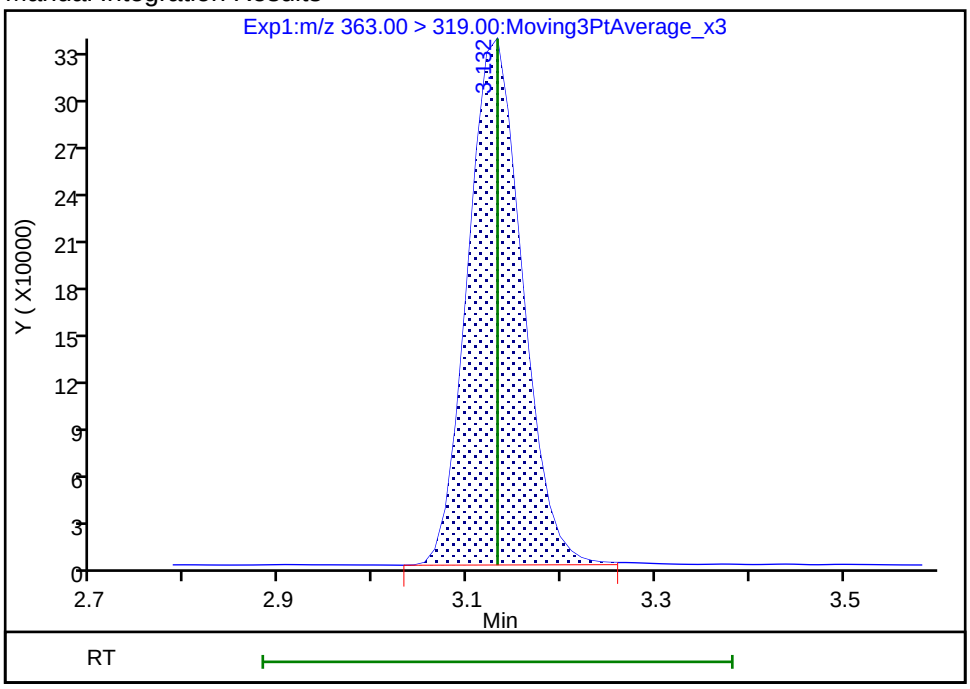
Processing Integration Results

RT: 3.13
Area: 1347205
Amount: 0.961146
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 1343906
Amount: 0.963680
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:25:06

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

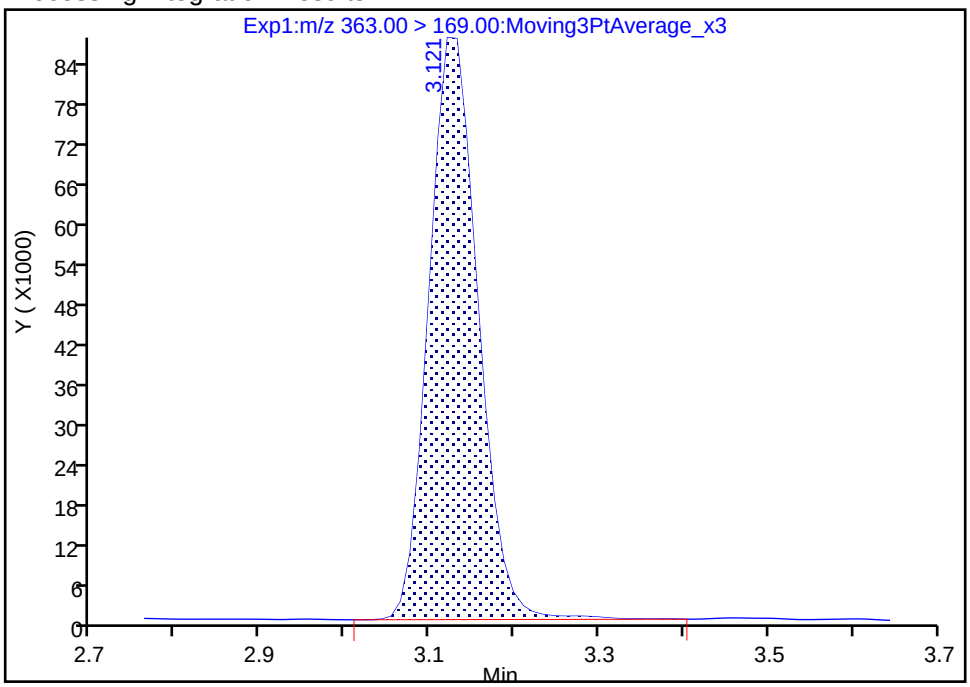
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

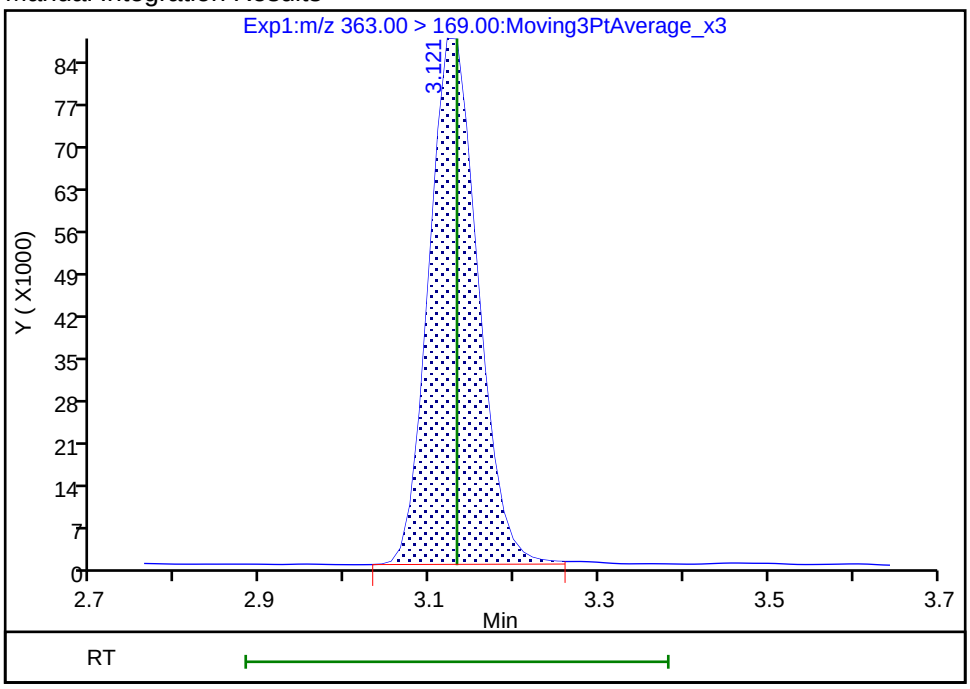
Processing Integration Results

RT: 3.12
Area: 354864
Amount: 0.961146
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 352667
Amount: 0.963680
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:25:16
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

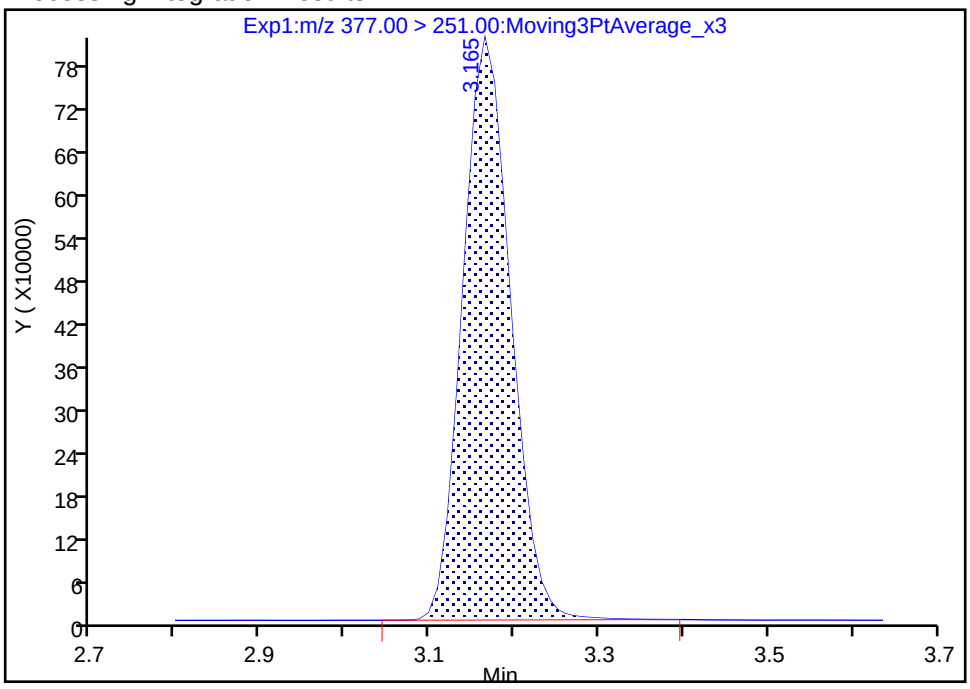
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

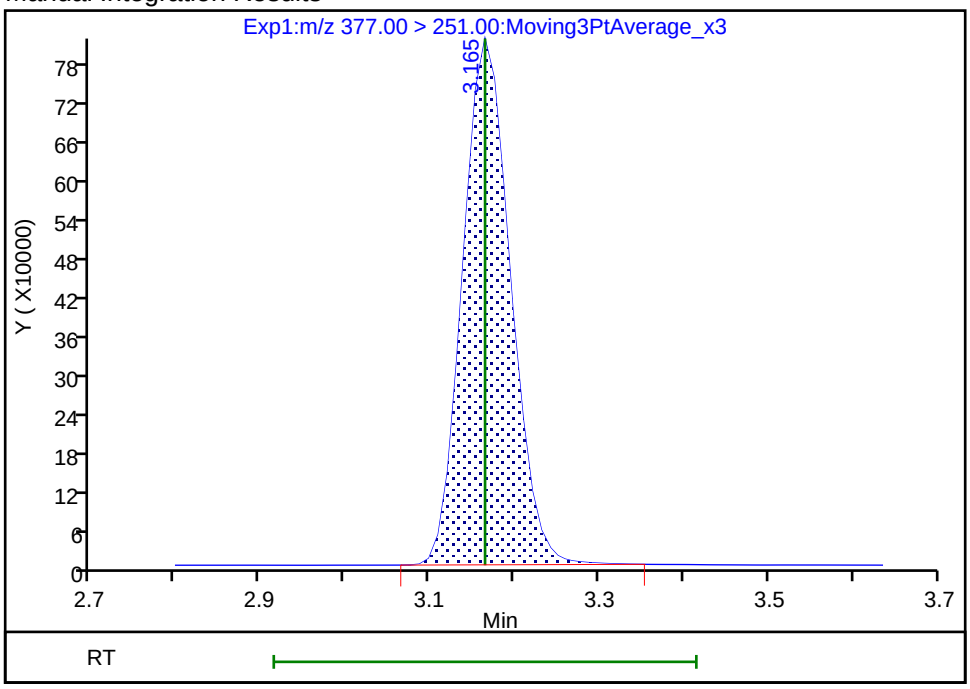
Processing Integration Results

RT: 3.16
Area: 3223296
Amount: 1.104462
Amount Units: ng/ml



Manual Integration Results

RT: 3.16
Area: 3219304
Amount: 1.103094
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:25:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

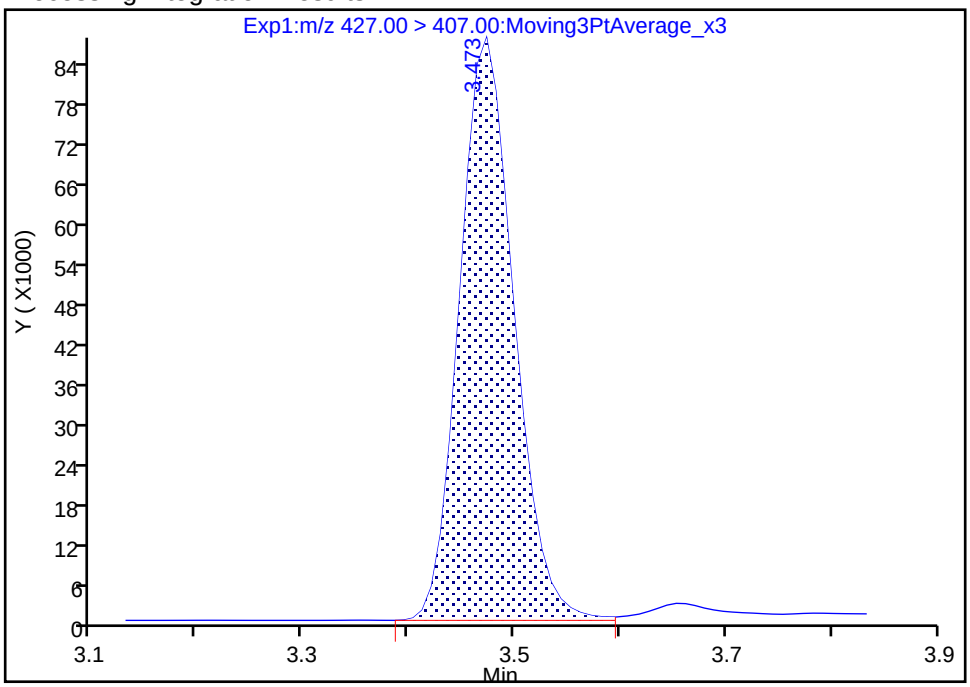
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

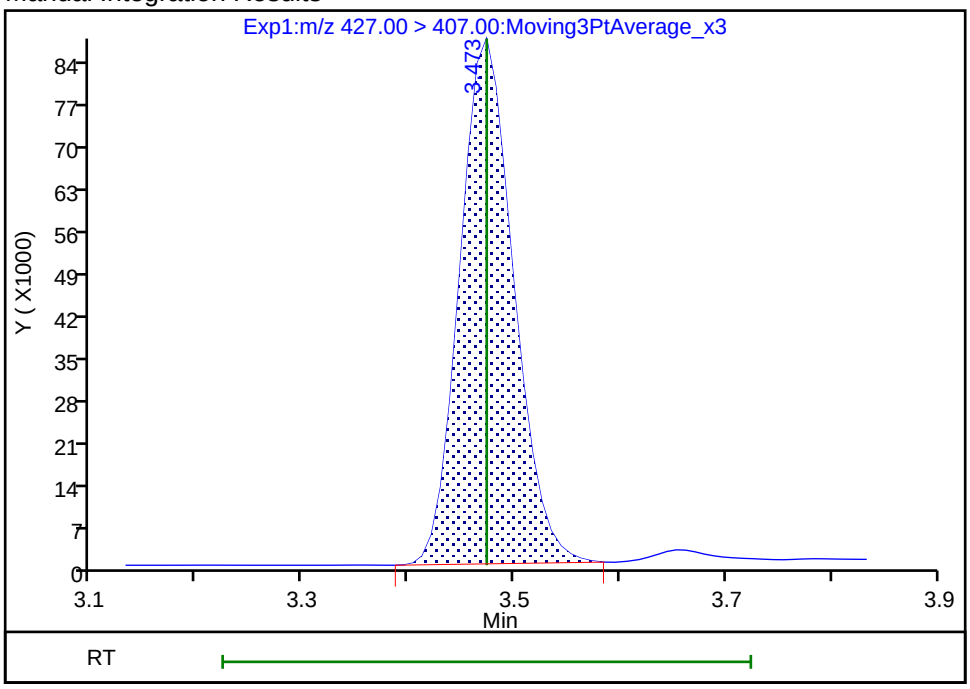
Processing Integration Results

RT: 3.47
Area: 312520
Amount: 0.966927
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 309116
Amount: 0.956096
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:16:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

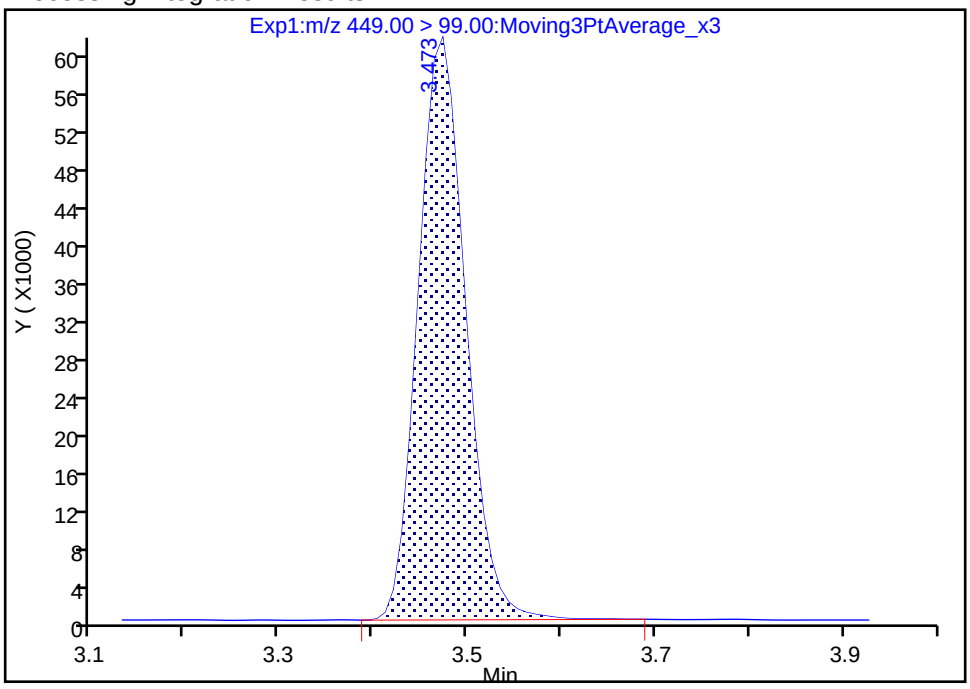
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d				
Injection Date:	13-Jun-2022 19:19:48	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

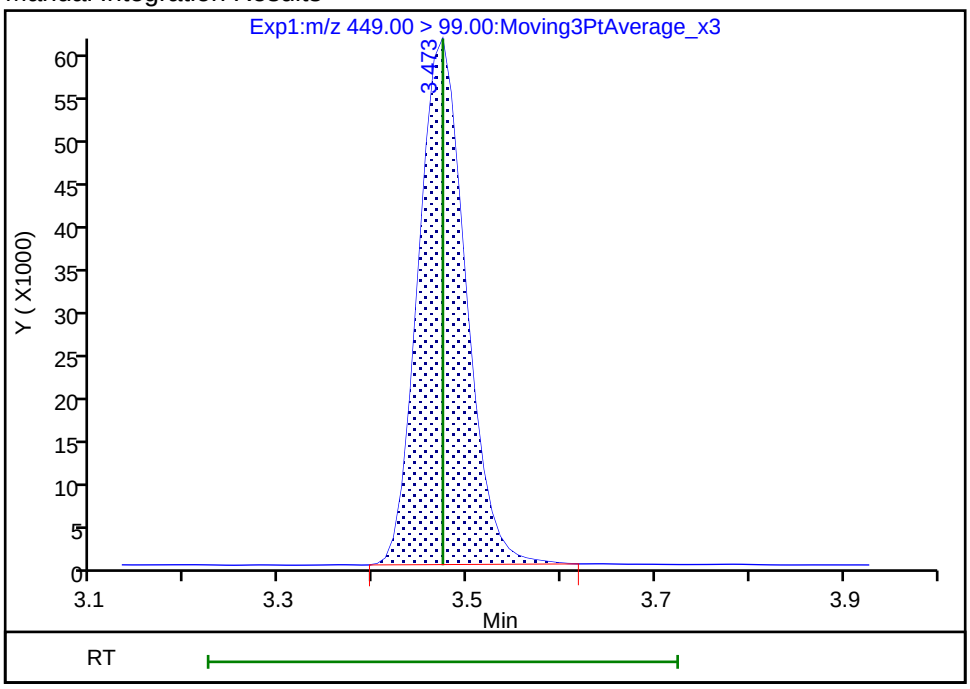
Processing Integration Results

RT: 3.47
Area: 213739
Amount: 0.921851
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 213058
Amount: 0.915946
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:26:04

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

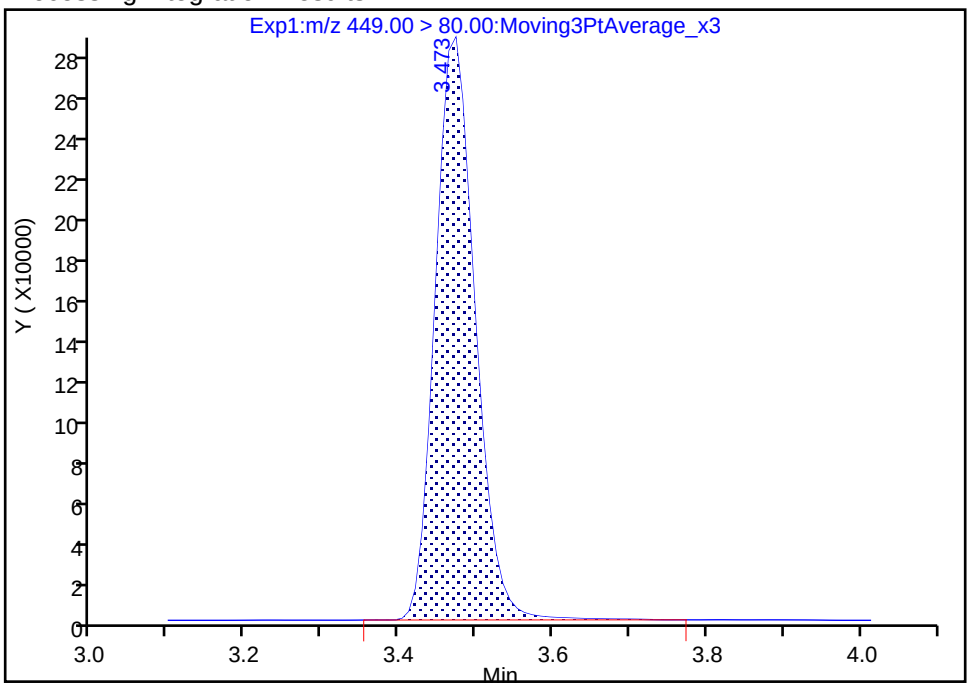
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

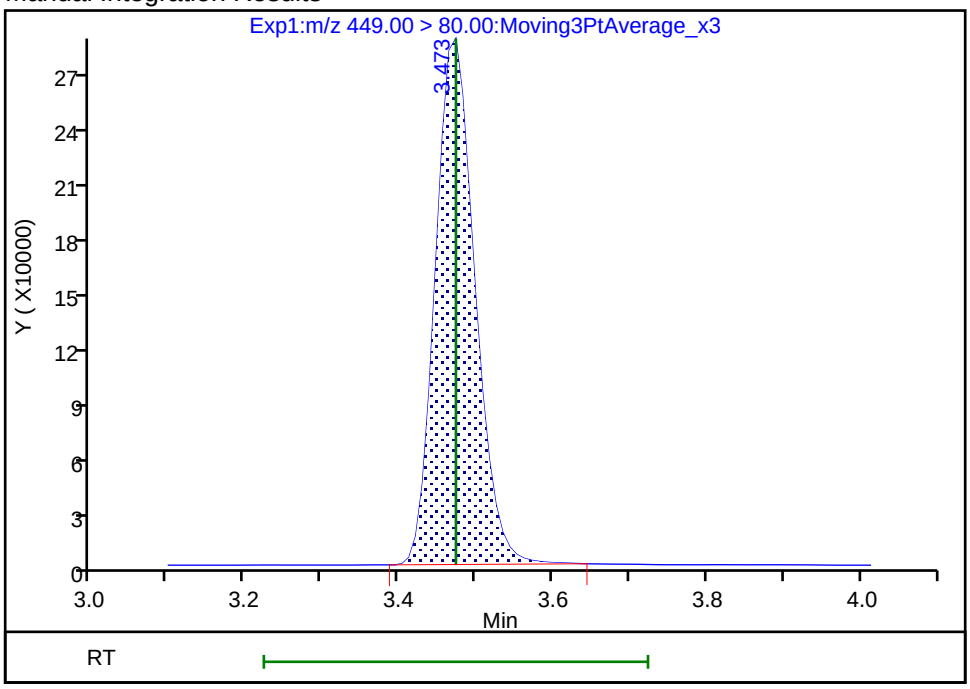
Processing Integration Results

RT: 3.47
Area: 1012031
Amount: 0.921851
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 1005549
Amount: 0.915946
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:26:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

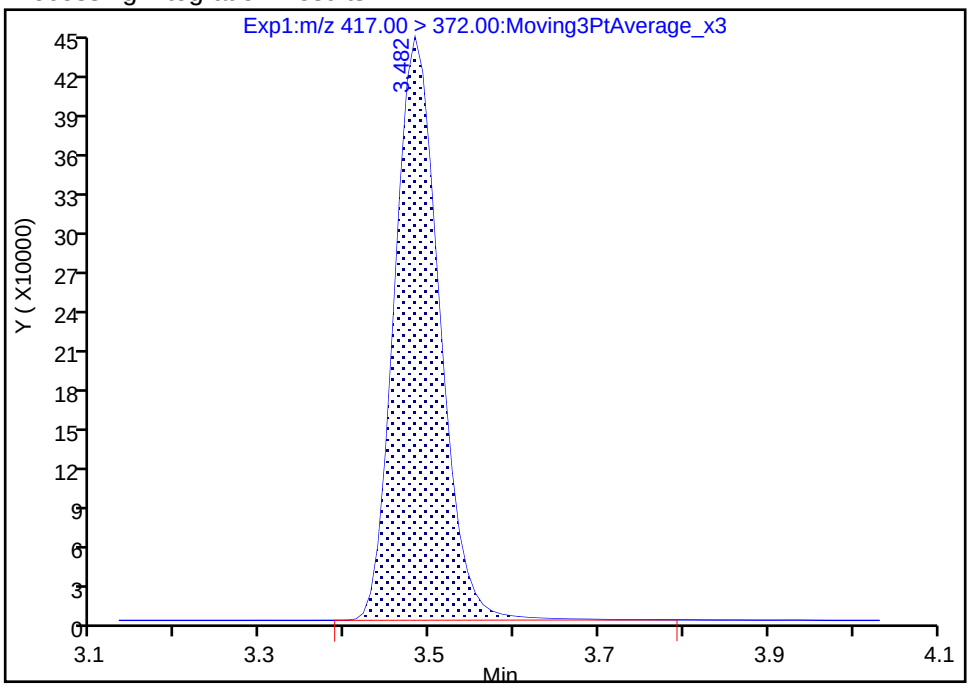
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

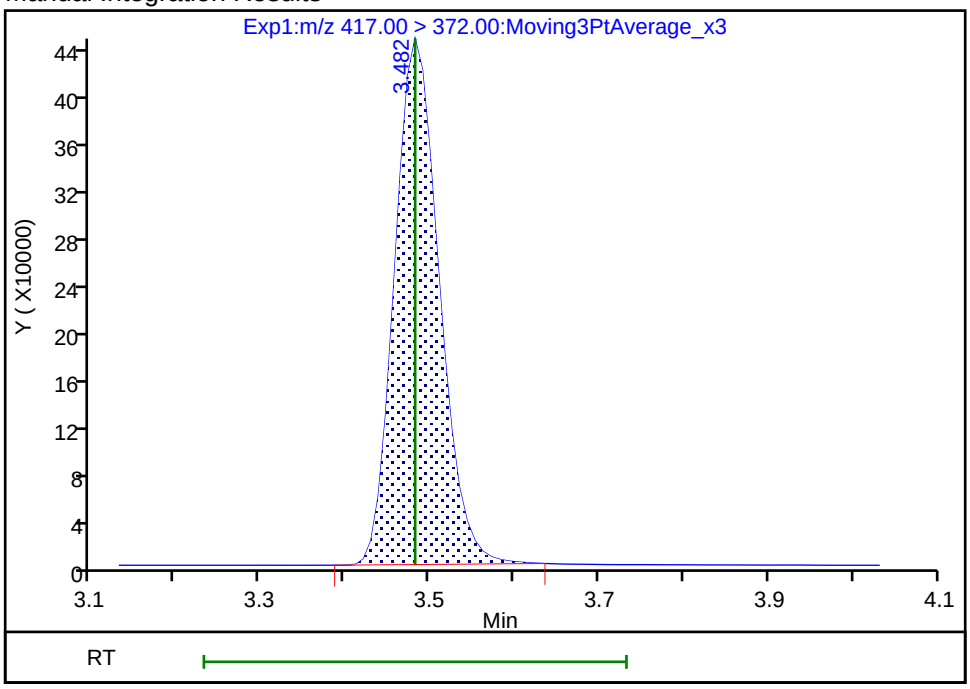
Processing Integration Results

RT: 3.48
Area: 1647270
Amount: 1.285772
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 1634570
Amount: 1.275859
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:16:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

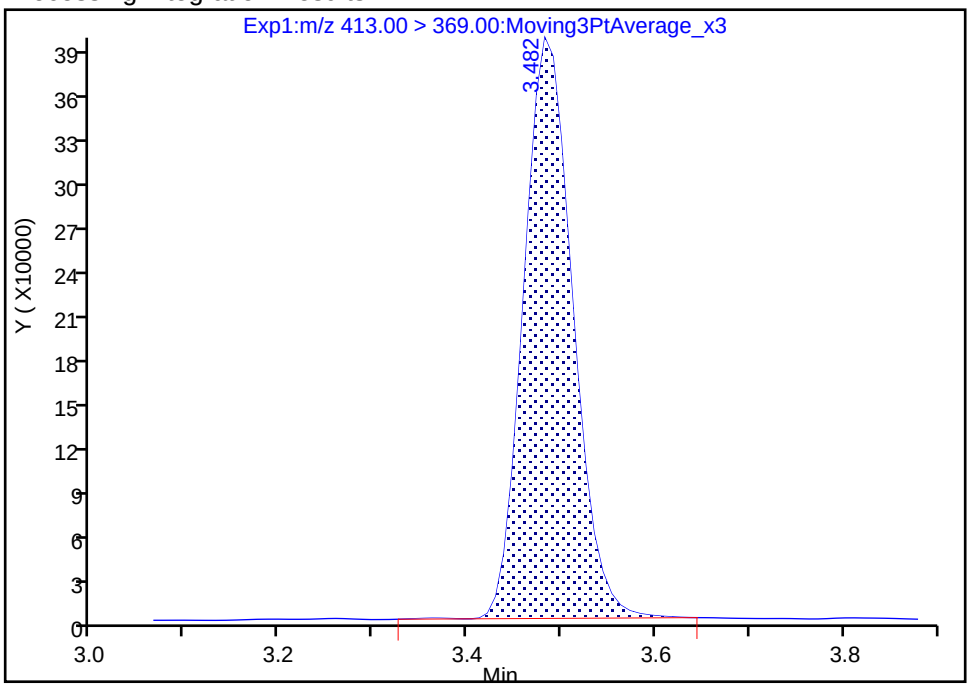
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

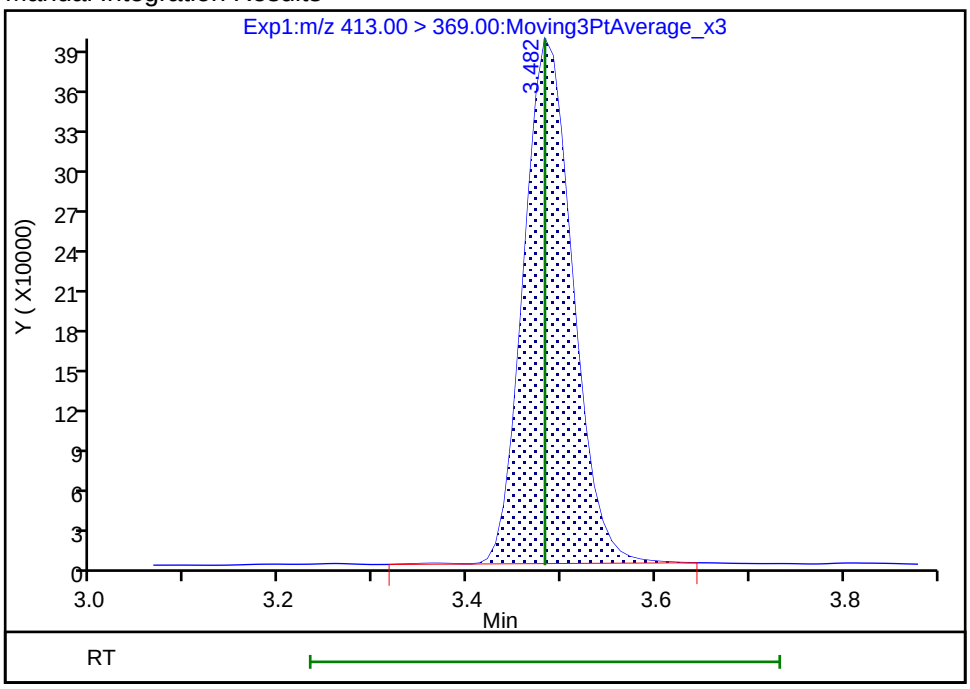
Processing Integration Results

RT: 3.48
Area: 1430360
Amount: 0.969153
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 1431767
Amount: 0.977643
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:26:20
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

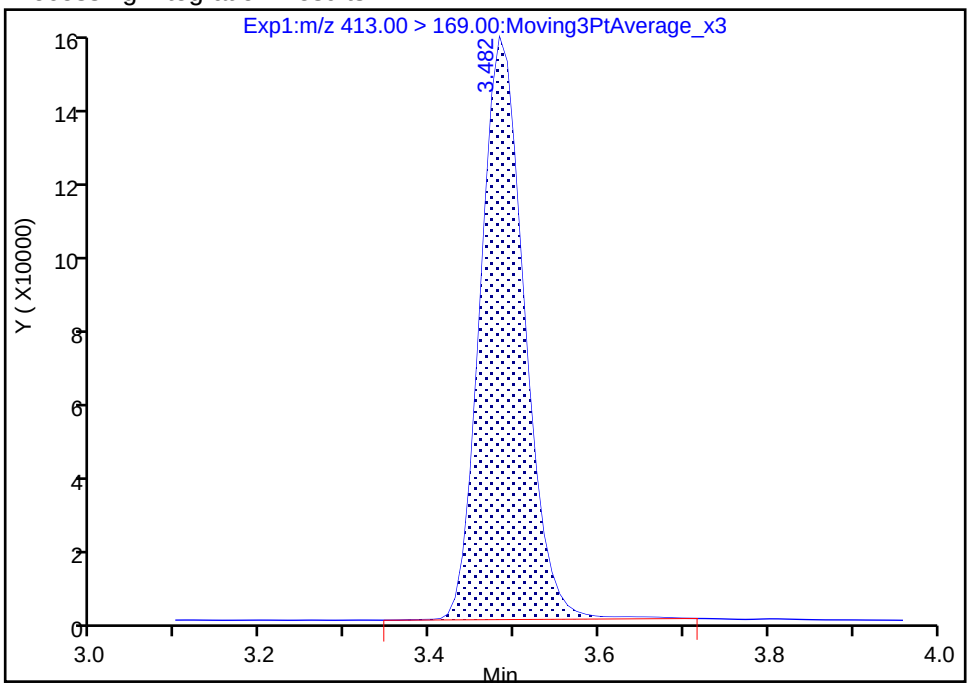
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

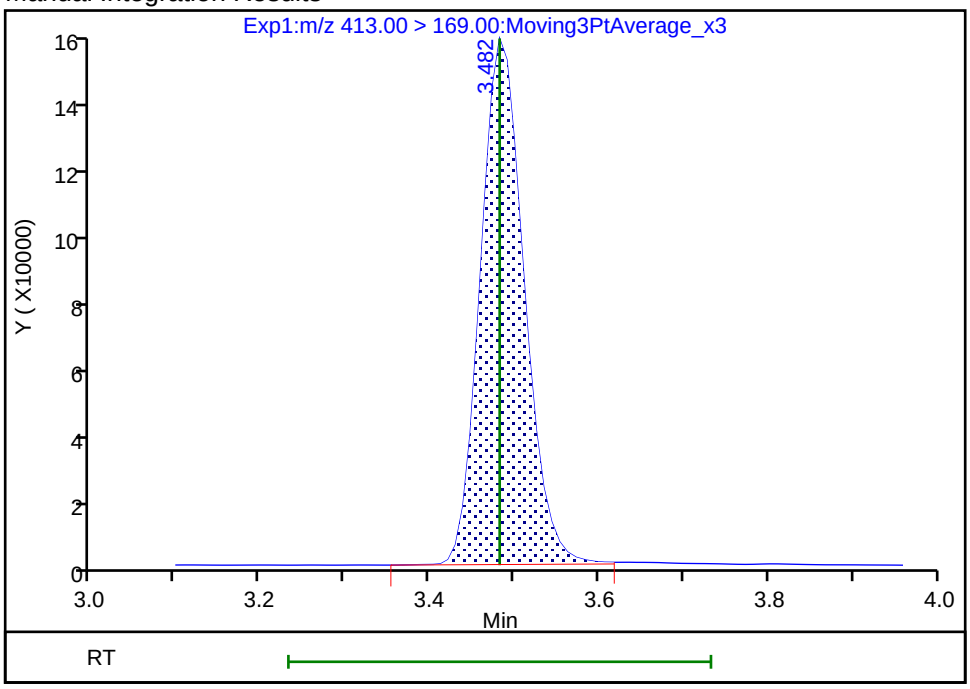
Processing Integration Results

RT: 3.48
Area: 541696
Amount: 0.969153
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 539893
Amount: 0.977643
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:26:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

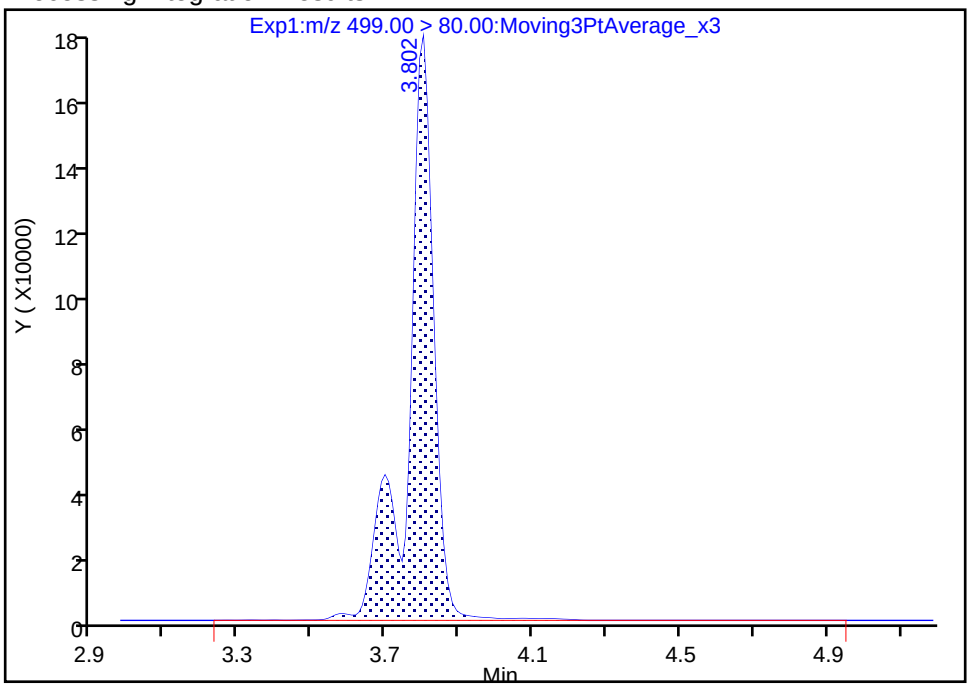
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

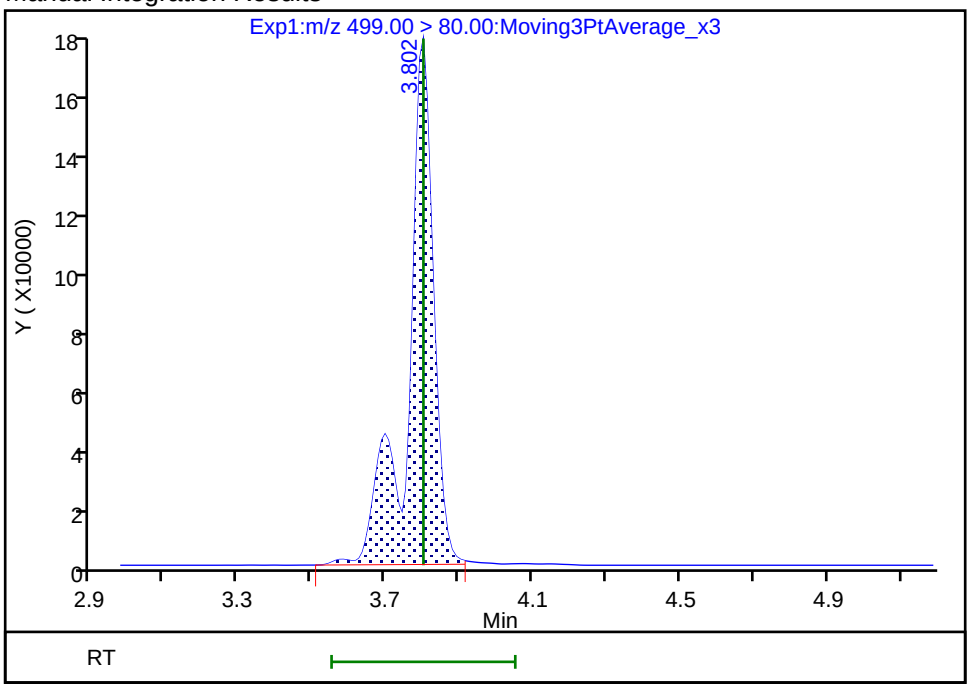
Processing Integration Results

RT: 3.80
Area: 863172
Amount: 0.884987
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 847637
Amount: 0.869059
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:38:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

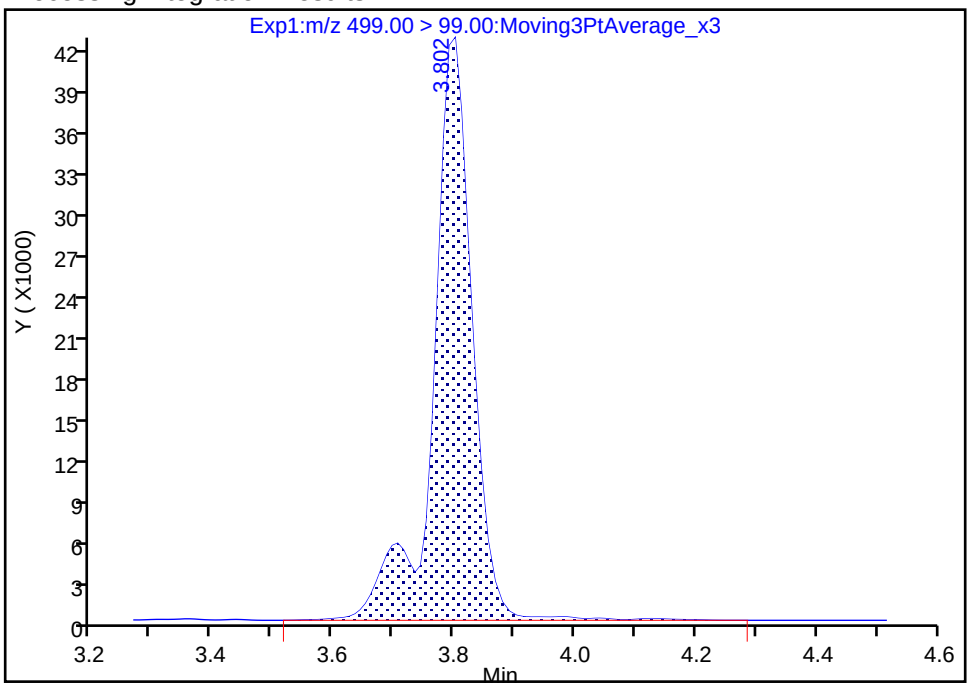
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

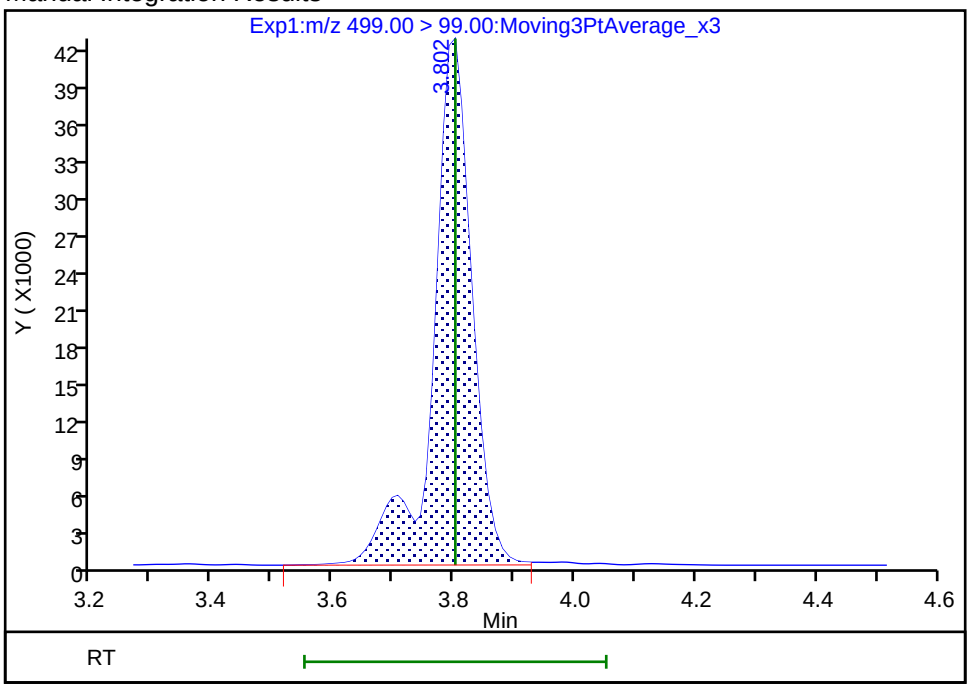
Processing Integration Results

RT: 3.80
Area: 192486
Amount: 0.884987
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 190108
Amount: 0.869059
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:38:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

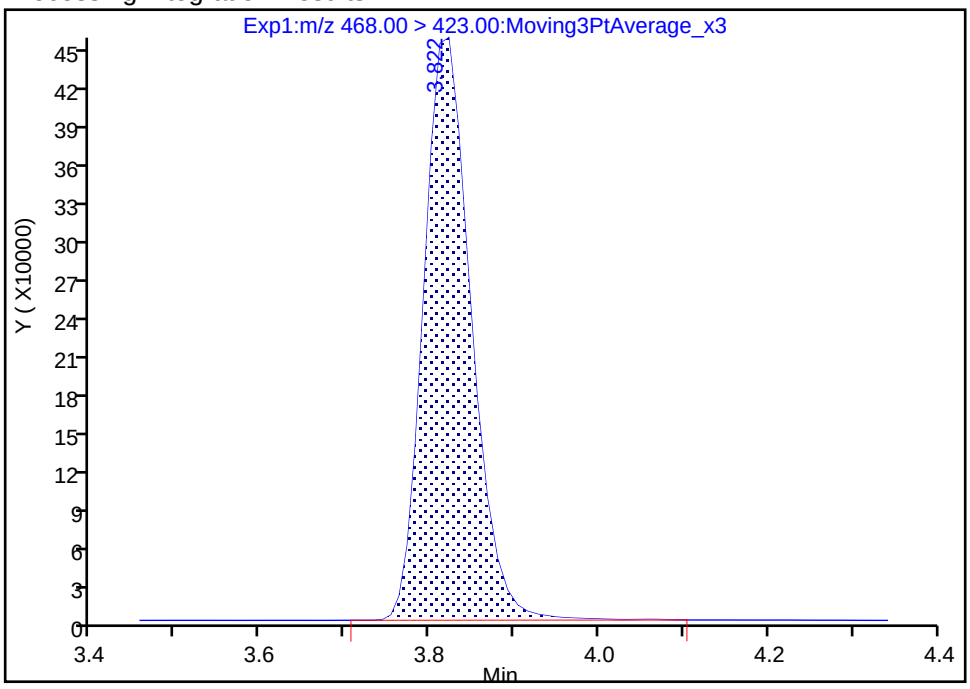
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

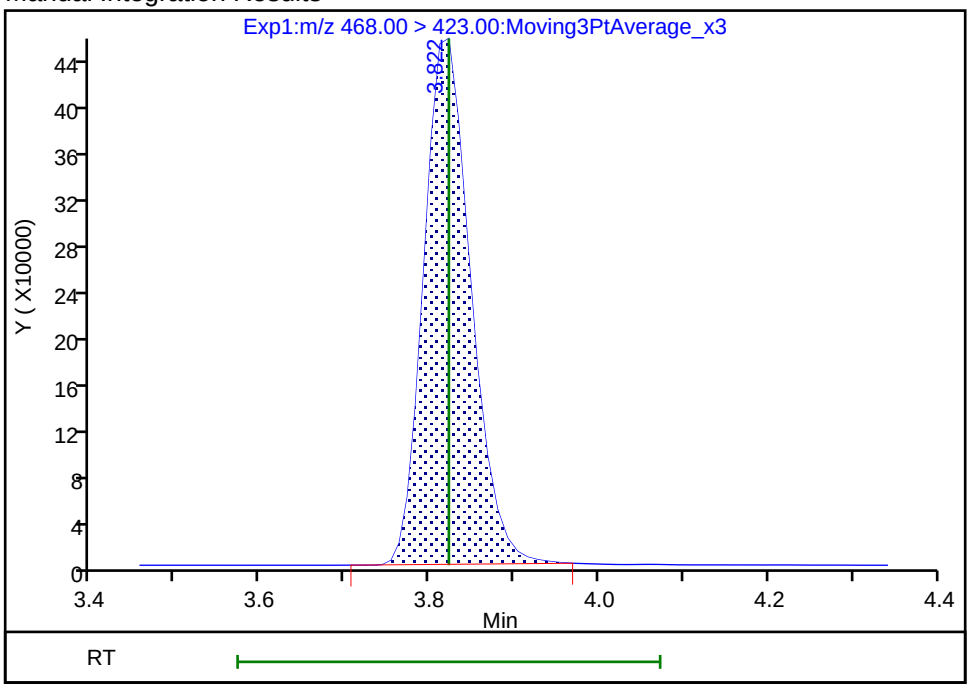
Processing Integration Results

RT: 3.82
Area: 1777630
Amount: 1.276921
Amount Units: ng/ml



Manual Integration Results

RT: 3.82
Area: 1761279
Amount: 1.265176
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:16:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

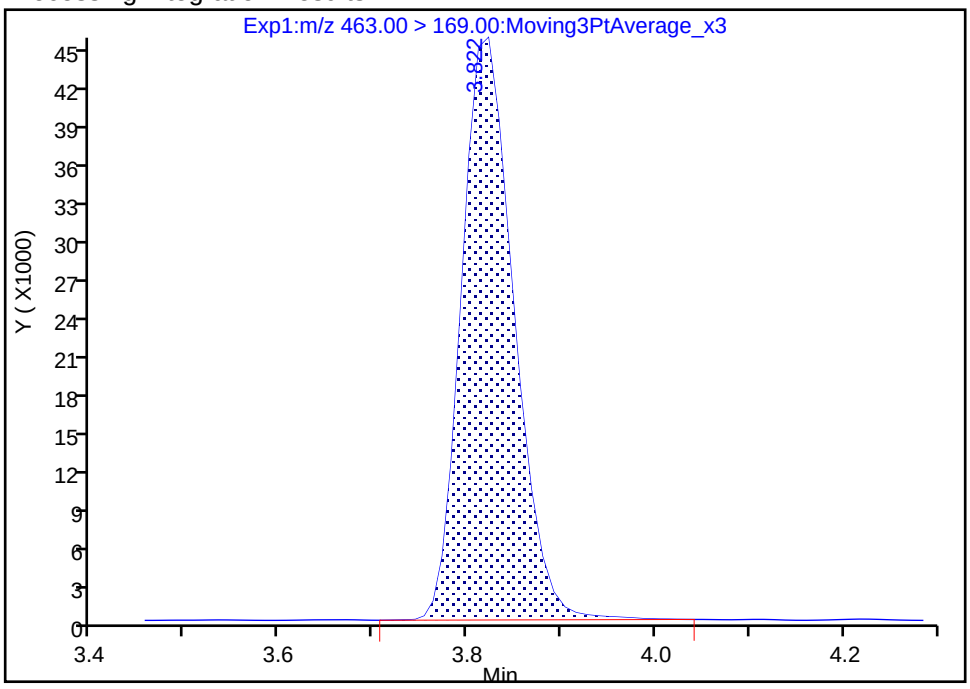
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

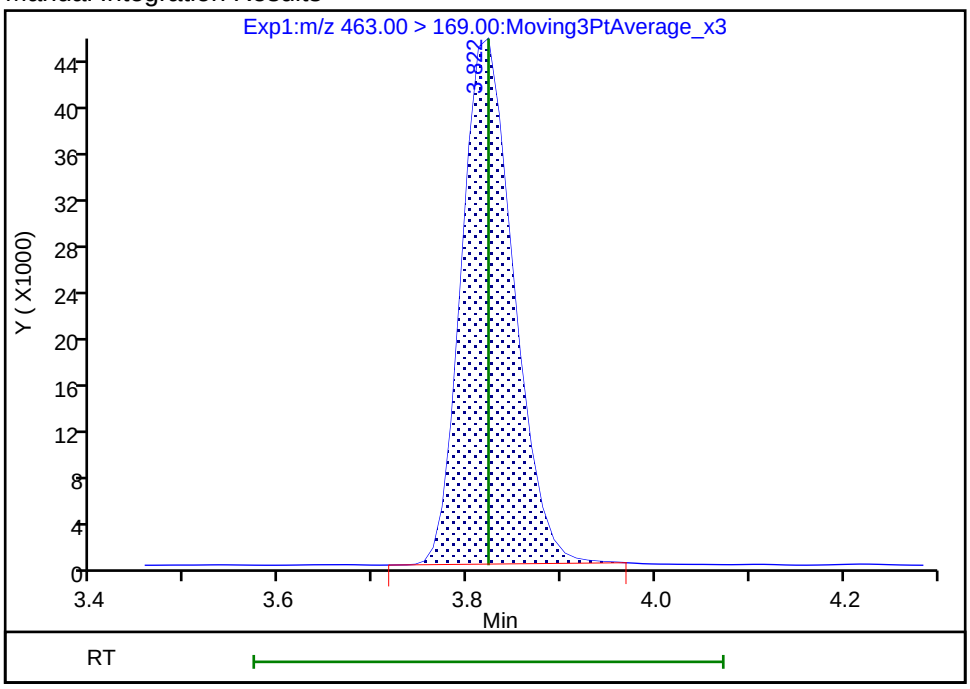
Processing Integration Results

RT: 3.82
Area: 174510
Amount: 1.054477
Amount Units: ng/ml



Manual Integration Results

RT: 3.82
Area: 173058
Amount: 1.054477
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:16:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

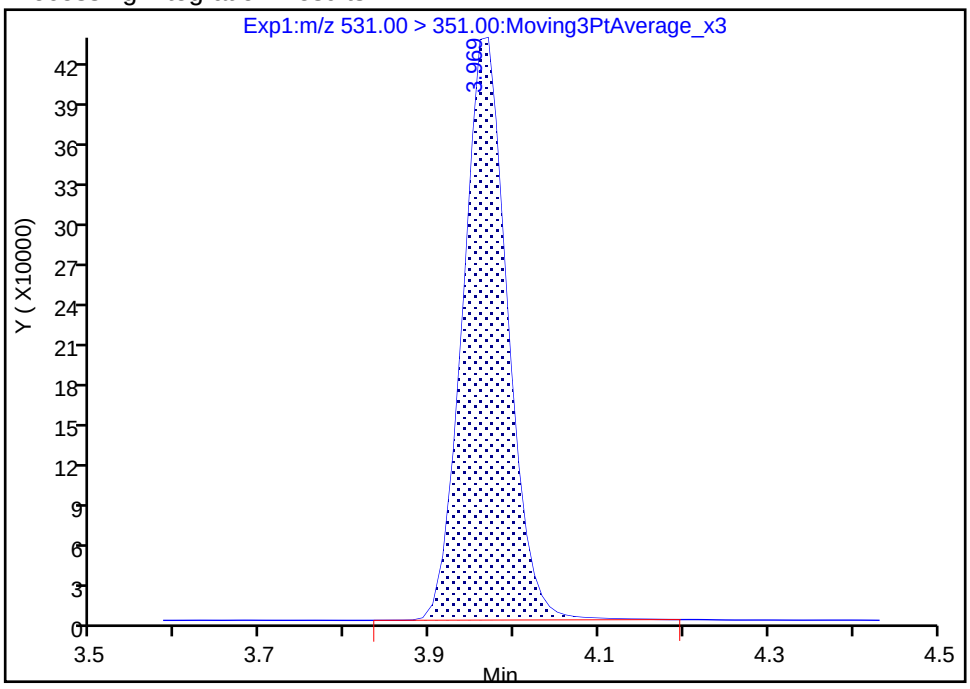
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

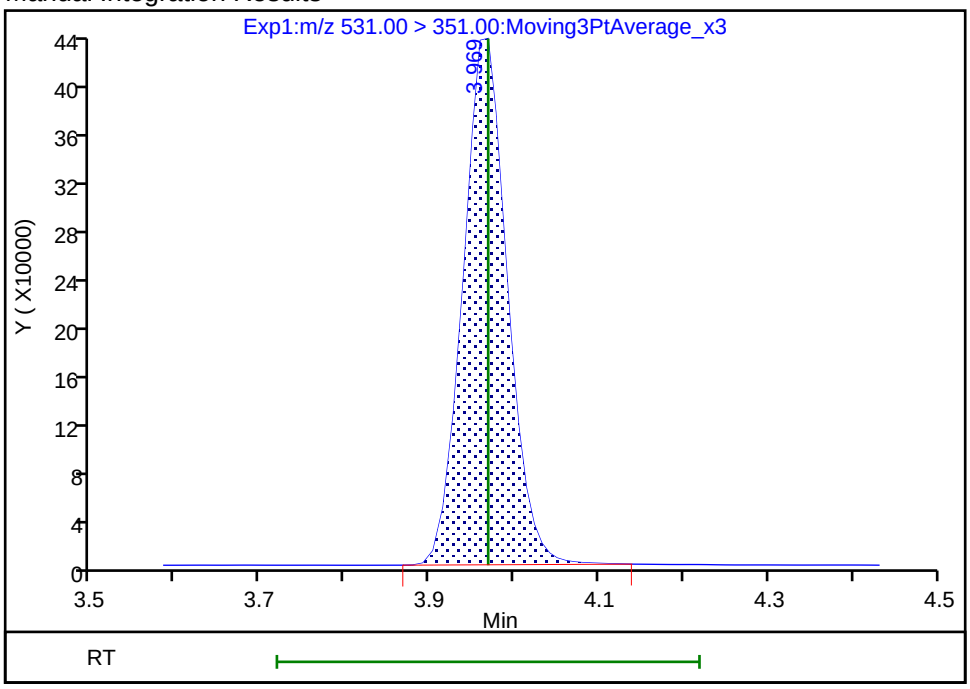
Processing Integration Results

RT: 3.97
Area: 1583974
Amount: 0.982741
Amount Units: ng/ml



Manual Integration Results

RT: 3.97
Area: 1579940
Amount: 0.980238
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:39:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

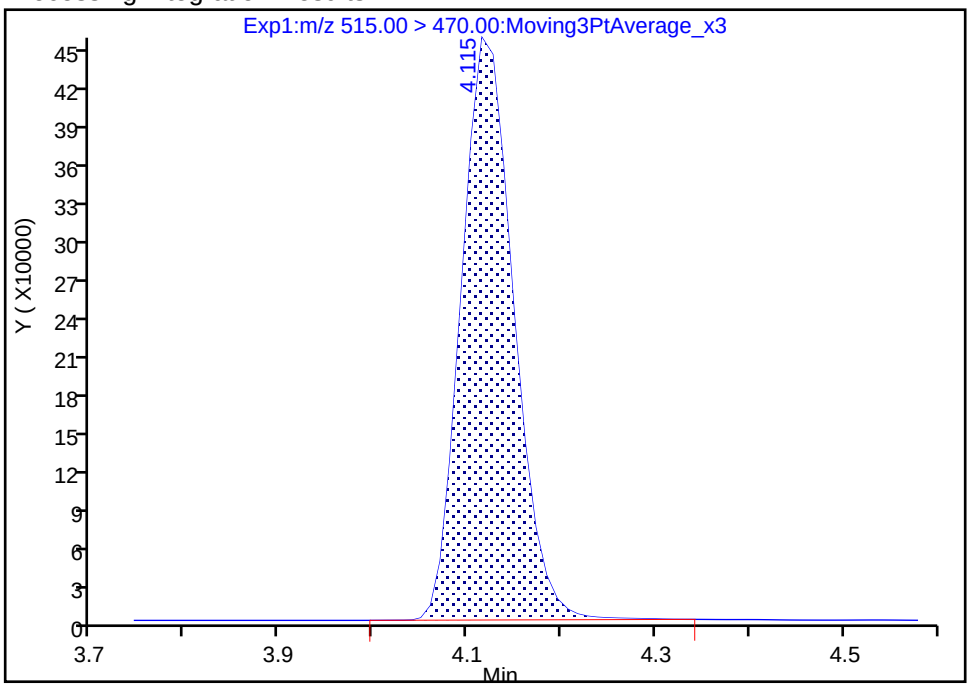
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

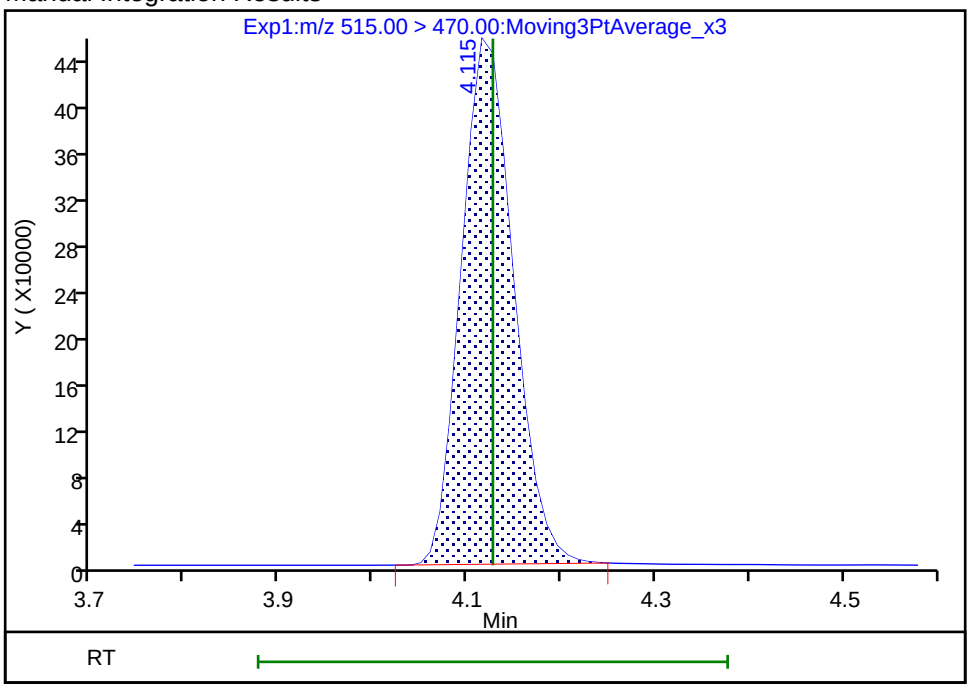
Processing Integration Results

RT: 4.12
Area: 1759914
Amount: 1.312895
Amount Units: ng/ml



Manual Integration Results

RT: 4.12
Area: 1747735
Amount: 1.303809
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:16:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

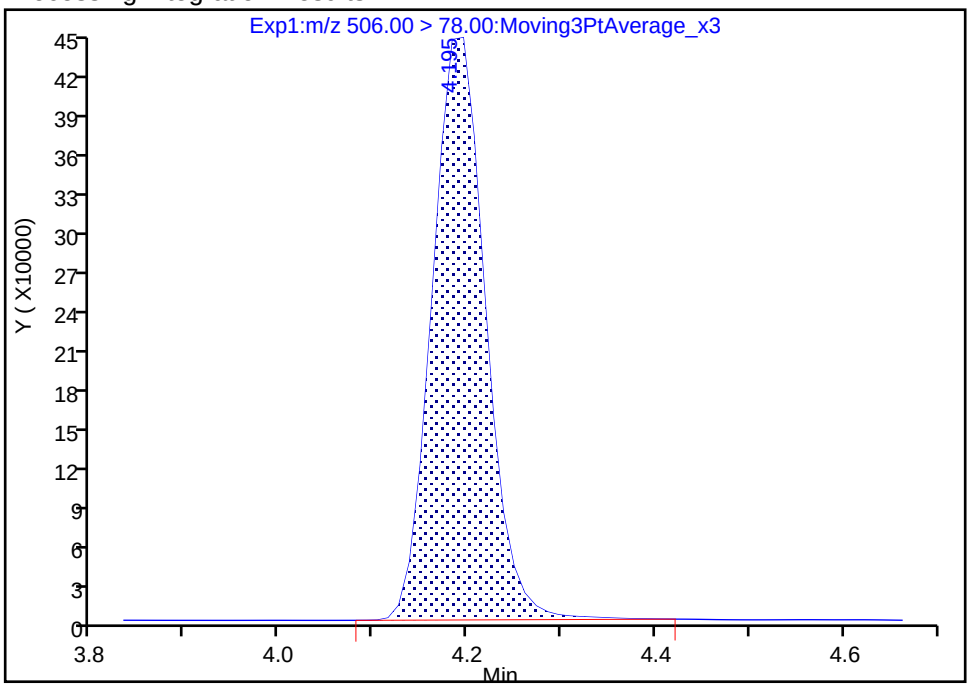
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

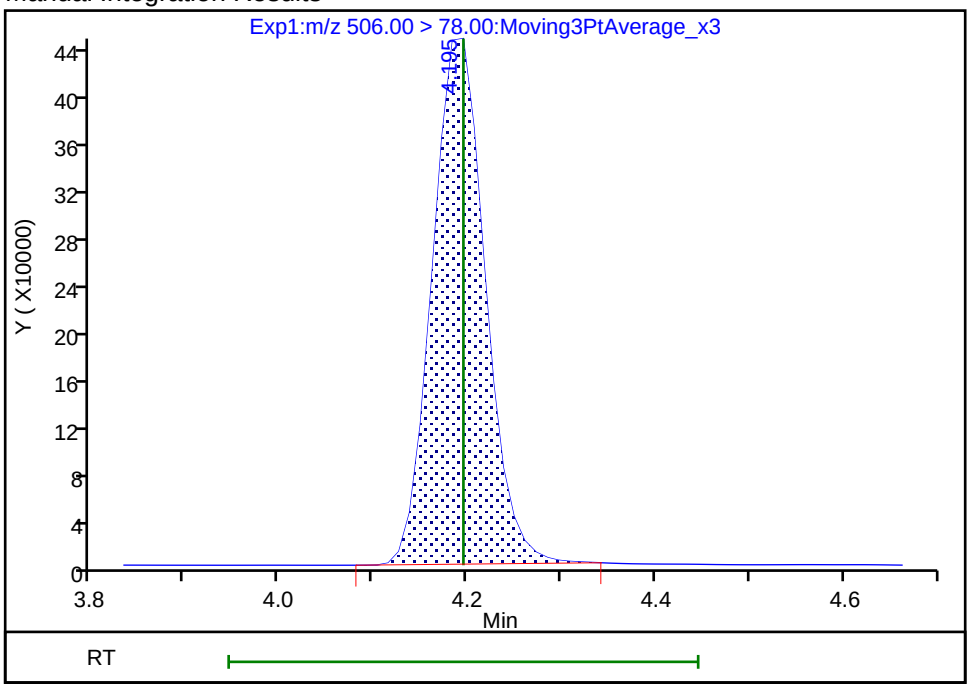
Processing Integration Results

RT: 4.20
Area: 1734436
Amount: 1.176060
Amount Units: ng/ml



Manual Integration Results

RT: 4.20
Area: 1721273
Amount: 1.167135
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:20:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

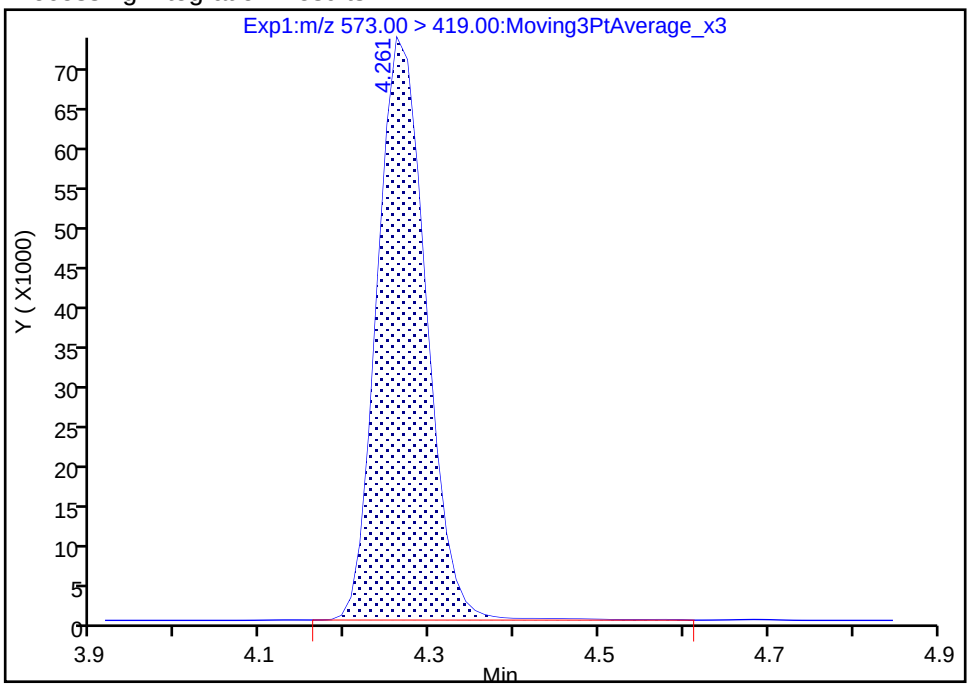
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

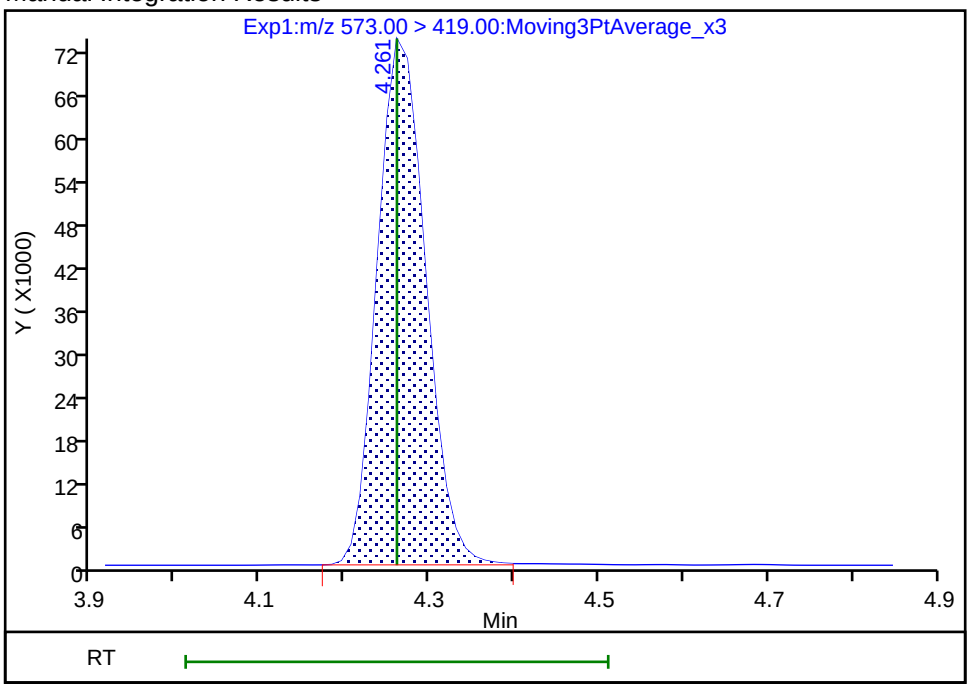
Processing Integration Results

RT: 4.26
Area: 292696
Amount: 1.645018
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 291276
Amount: 1.637037
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:15:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

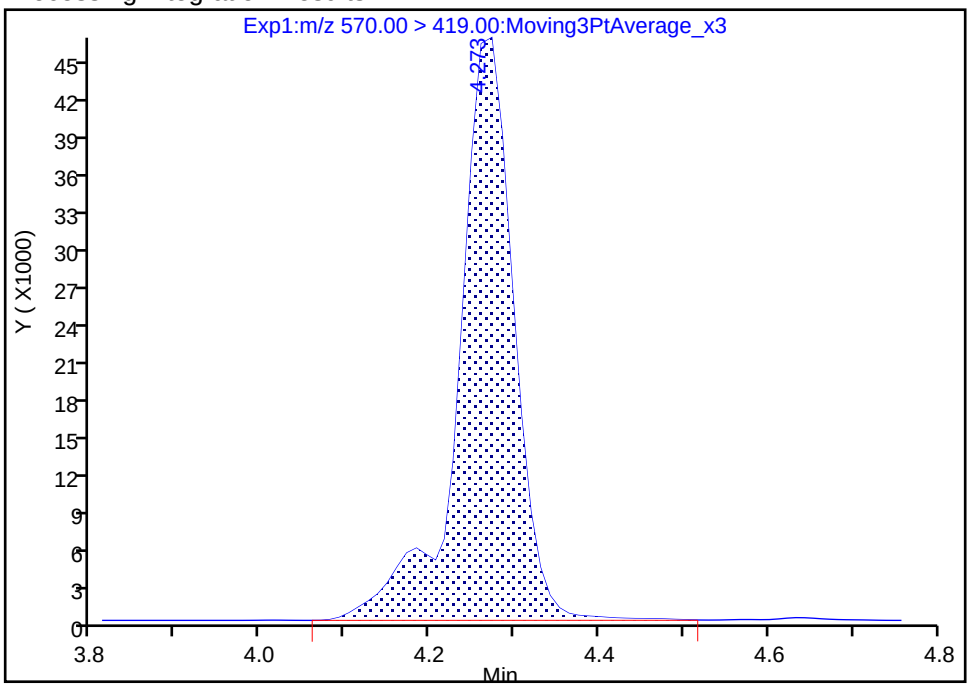
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d				
Injection Date:	13-Jun-2022 19:19:48	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

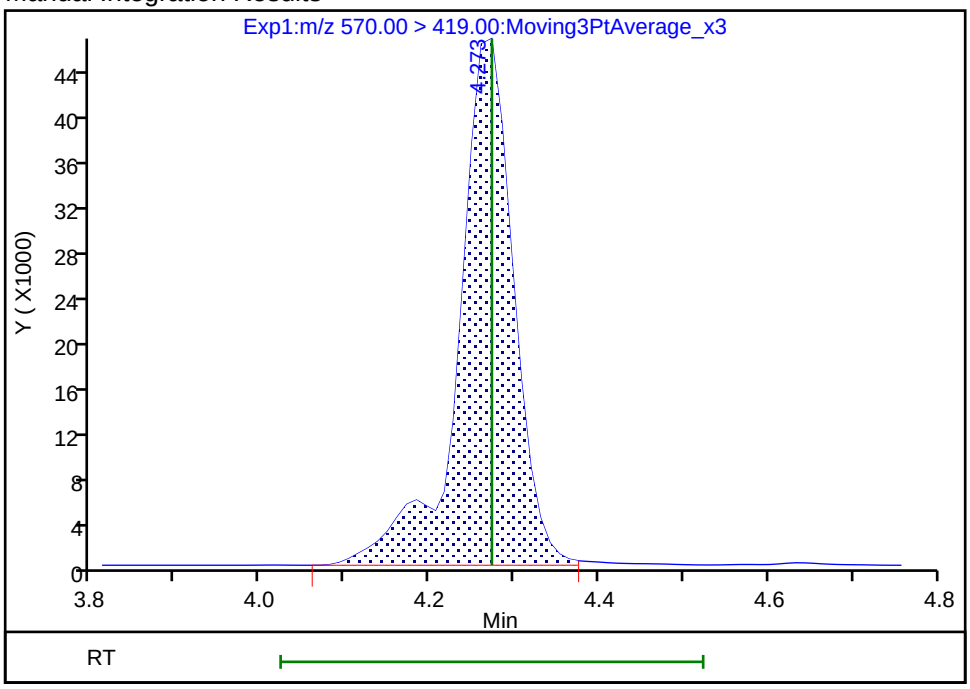
Processing Integration Results

RT: 4.27
Area: 212179
Amount: 1.001253
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 210852
Amount: 0.994991
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:39:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

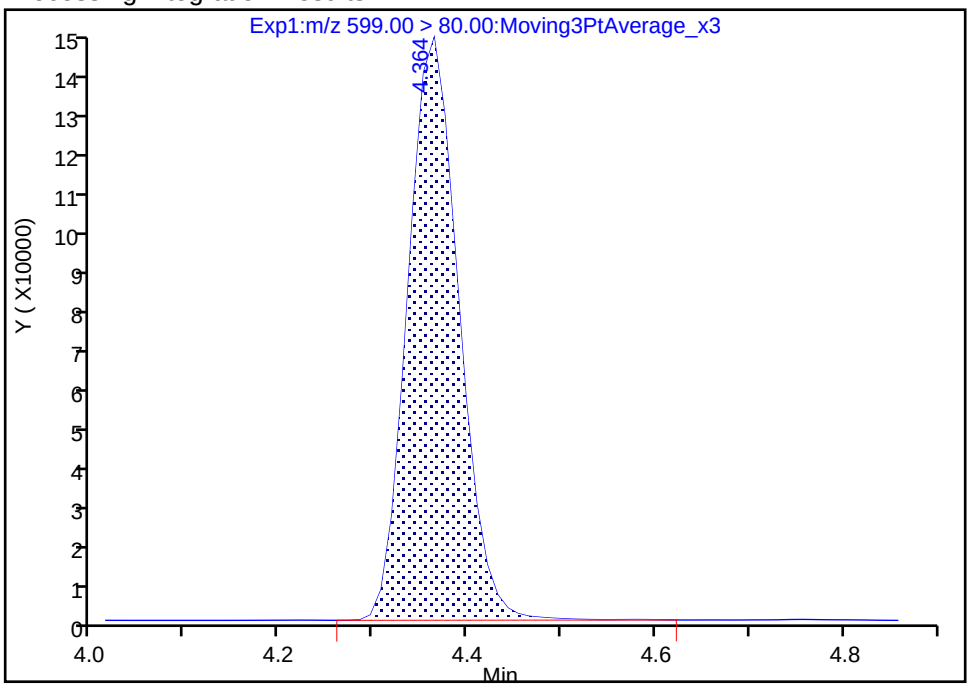
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

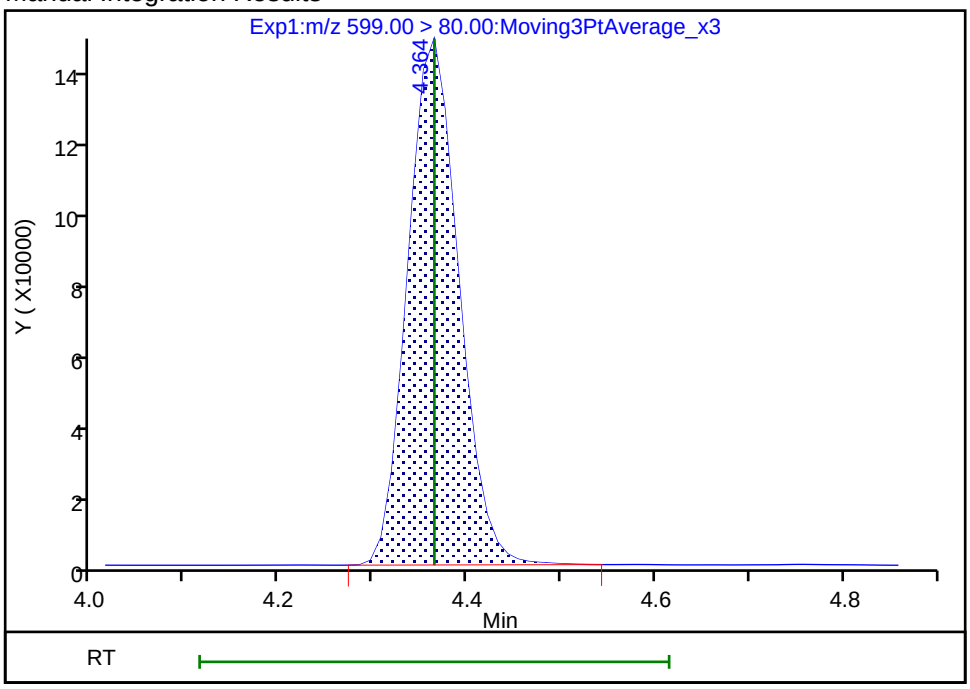
Processing Integration Results

RT: 4.36
Area: 542144
Amount: 0.962401
Amount Units: ng/ml



Manual Integration Results

RT: 4.36
Area: 540929
Amount: 0.960245
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:39:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

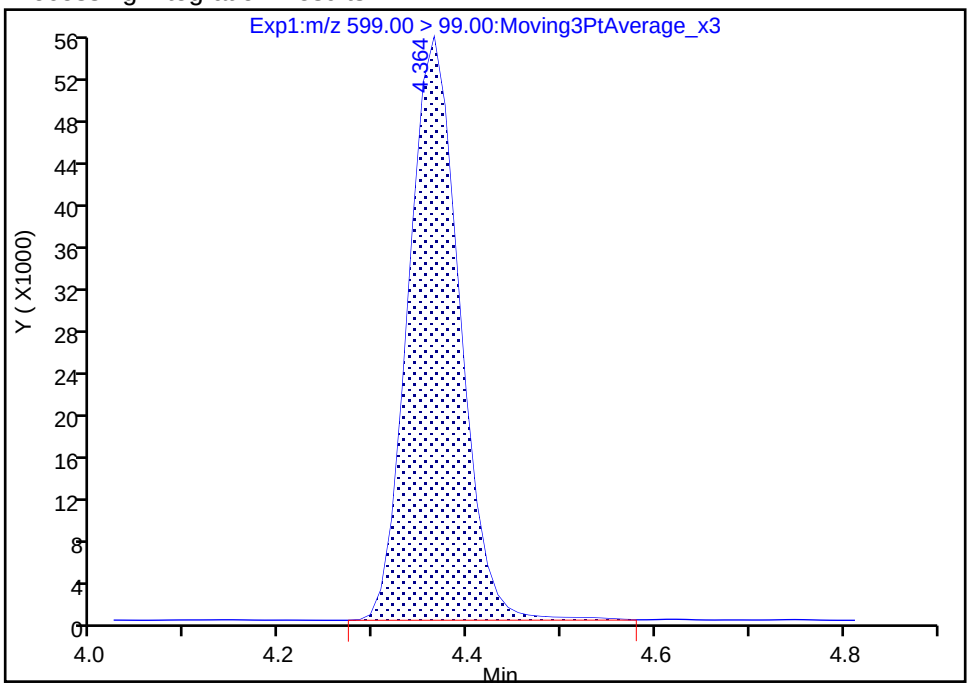
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d				
Injection Date:	13-Jun-2022 19:19:48	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

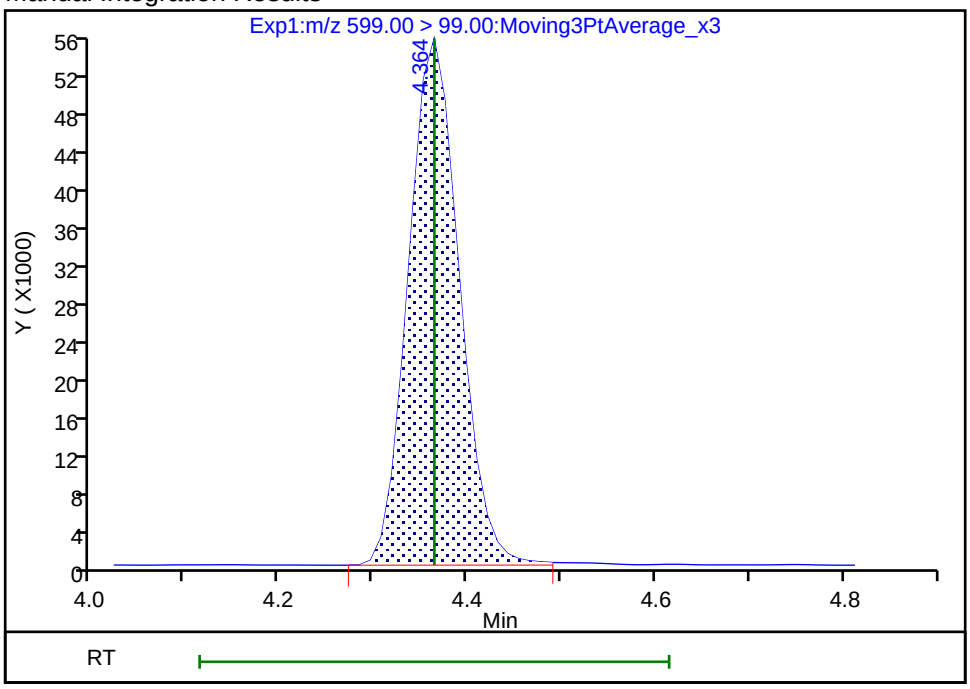
Processing Integration Results

RT: 4.36
Area: 207709
Amount: 0.962401
Amount Units: ng/ml



Manual Integration Results

RT: 4.36
Area: 206794
Amount: 0.960245
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:39:54

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

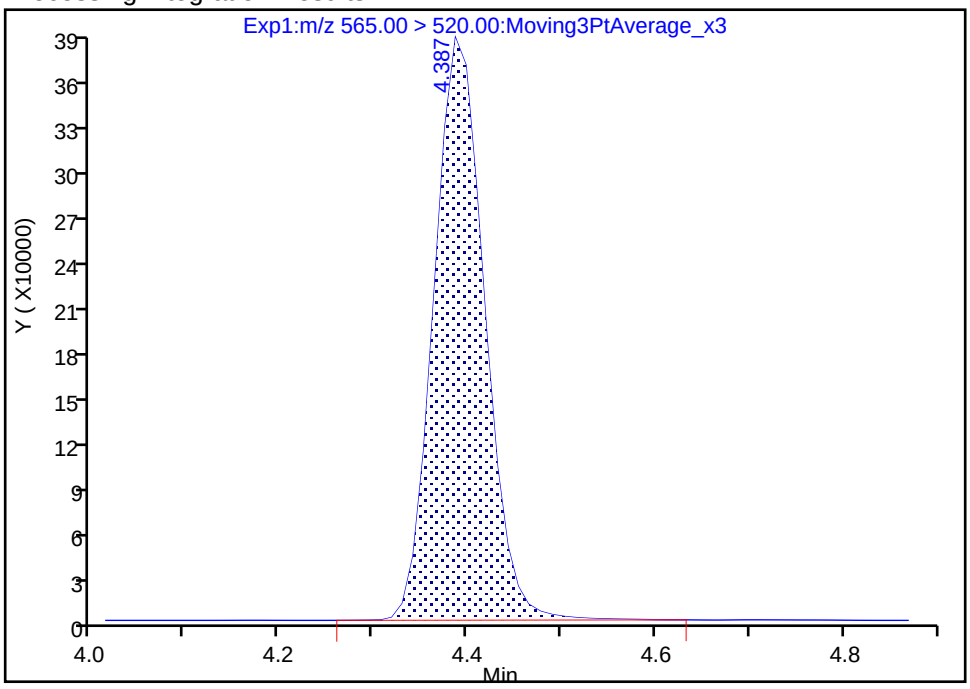
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

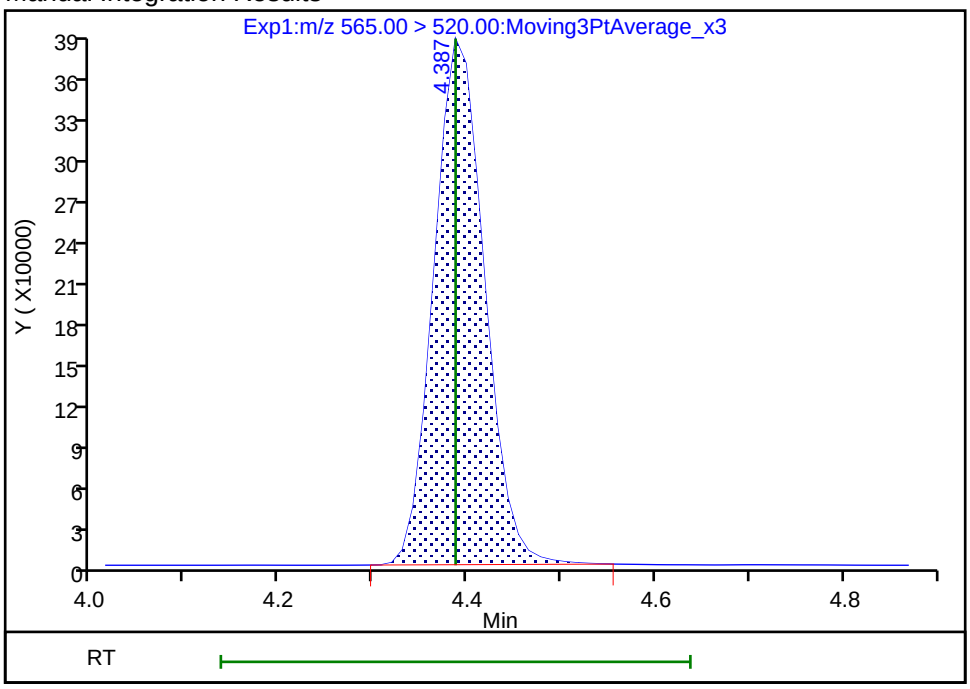
Processing Integration Results

RT: 4.39
Area: 1432232
Amount: 1.330745
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 1425771
Amount: 1.324742
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:20:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

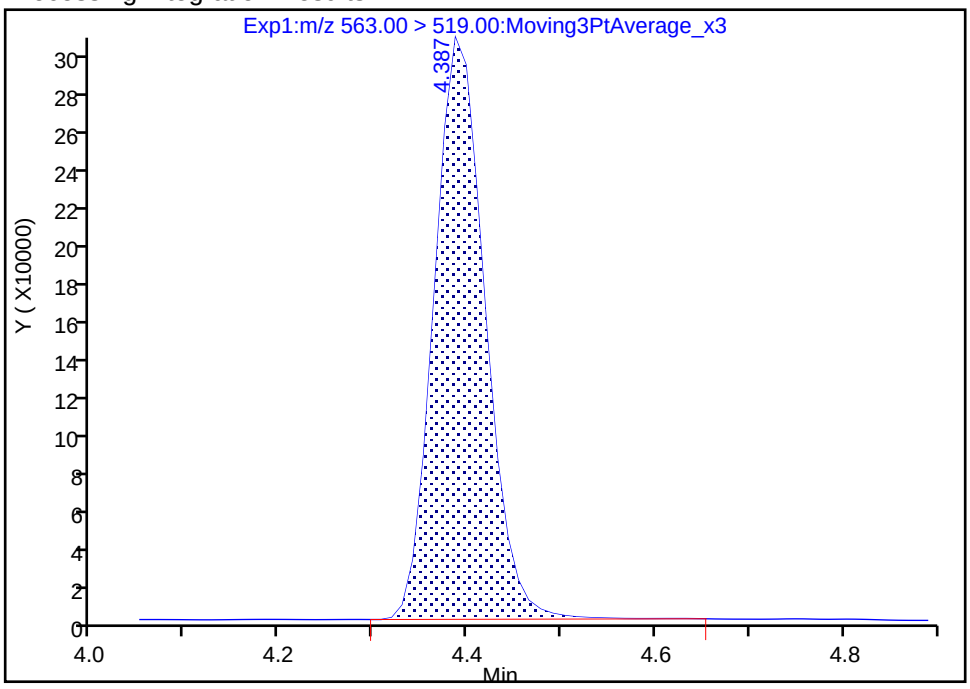
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

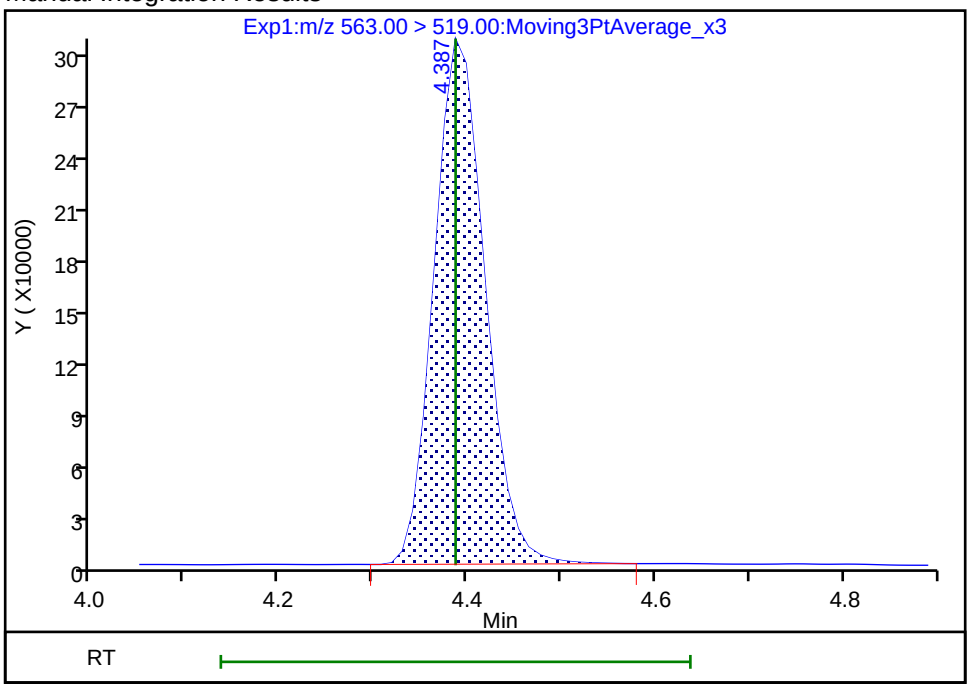
Processing Integration Results

RT: 4.39
Area: 1161271
Amount: 0.983447
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 1159080
Amount: 0.986040
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:40:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

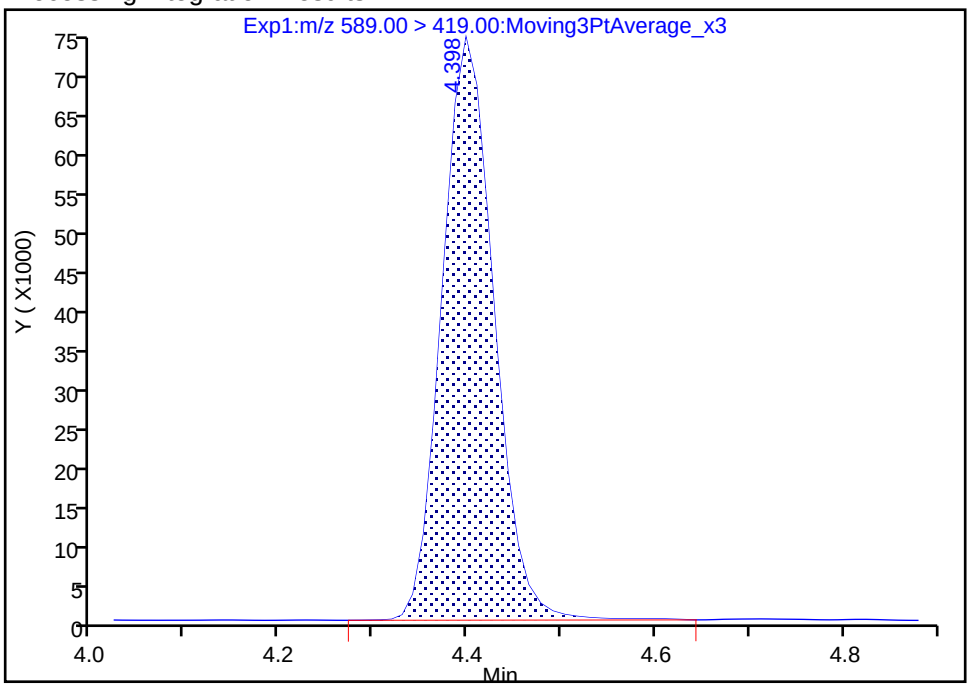
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

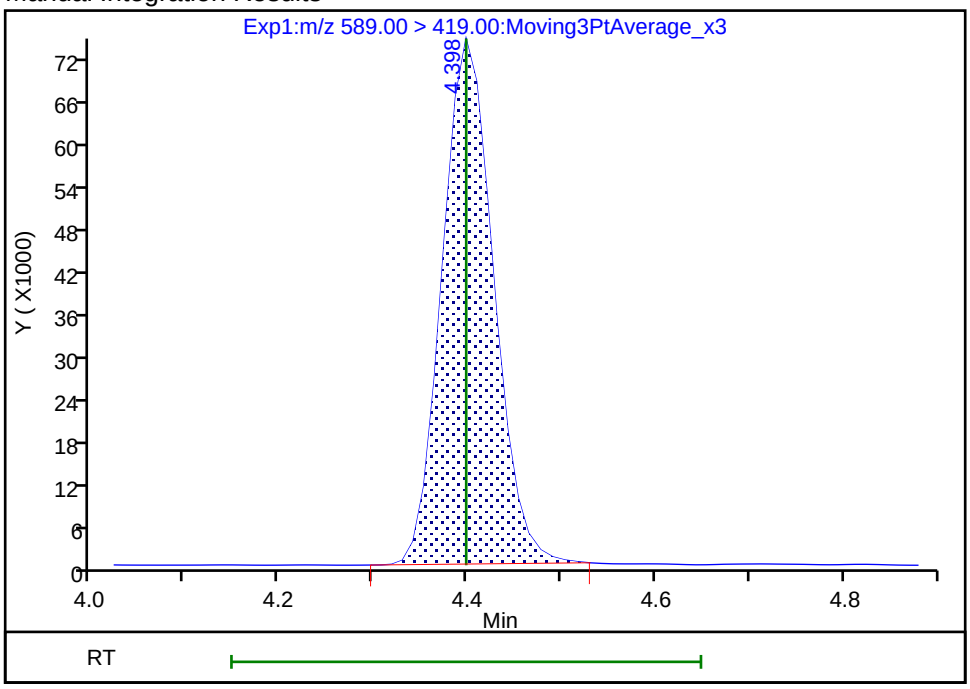
Processing Integration Results

RT: 4.40
Area: 283859
Amount: 1.633265
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 280695
Amount: 1.615060
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:20:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

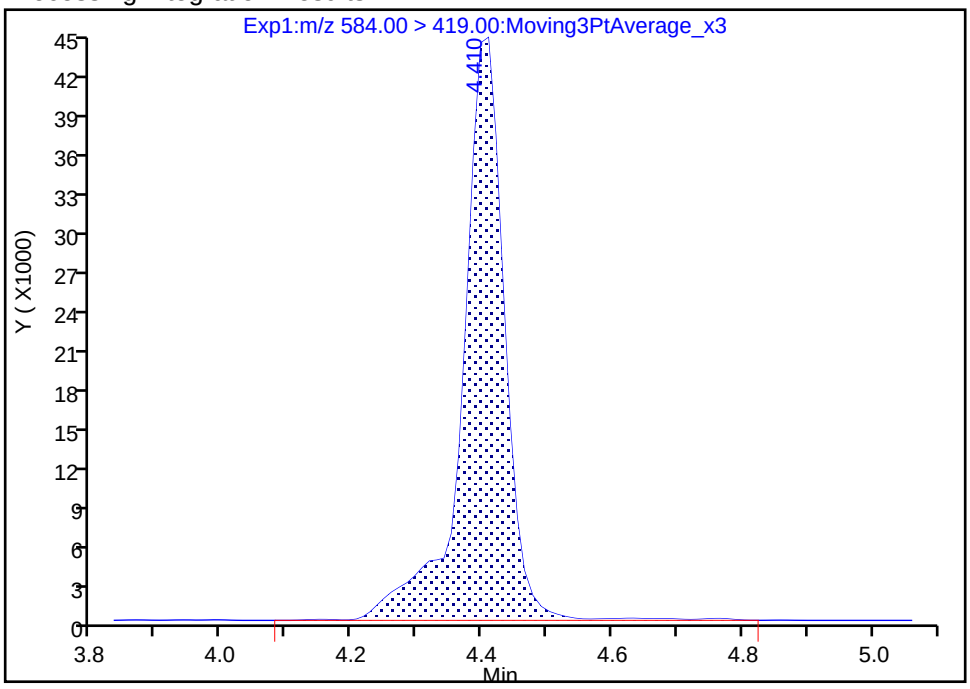
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

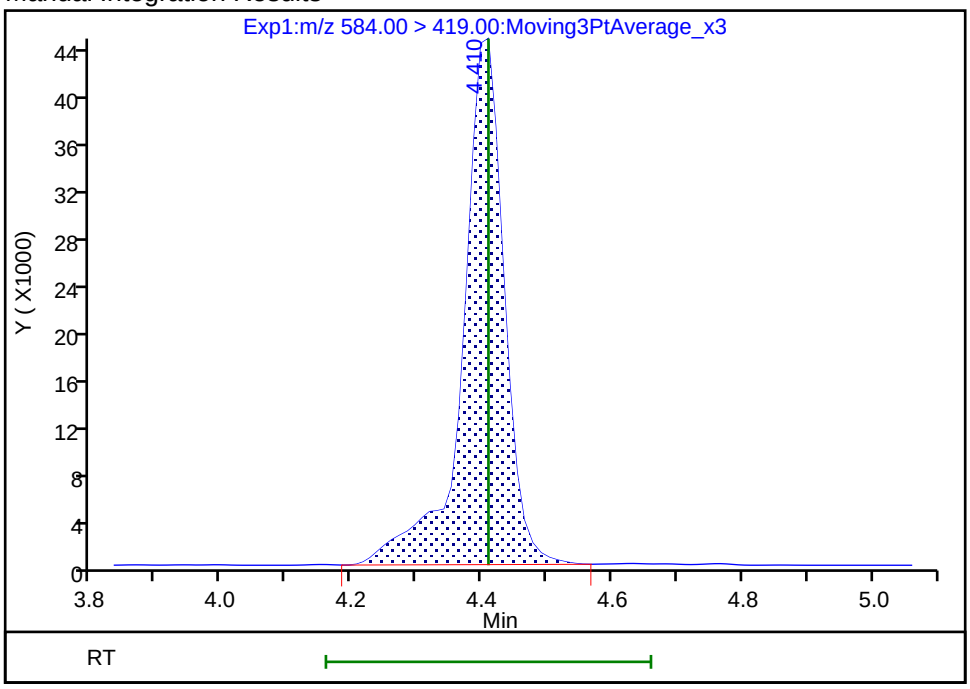
Processing Integration Results

RT: 4.41
Area: 202354
Amount: 0.949848
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 199646
Amount: 0.947700
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:40:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

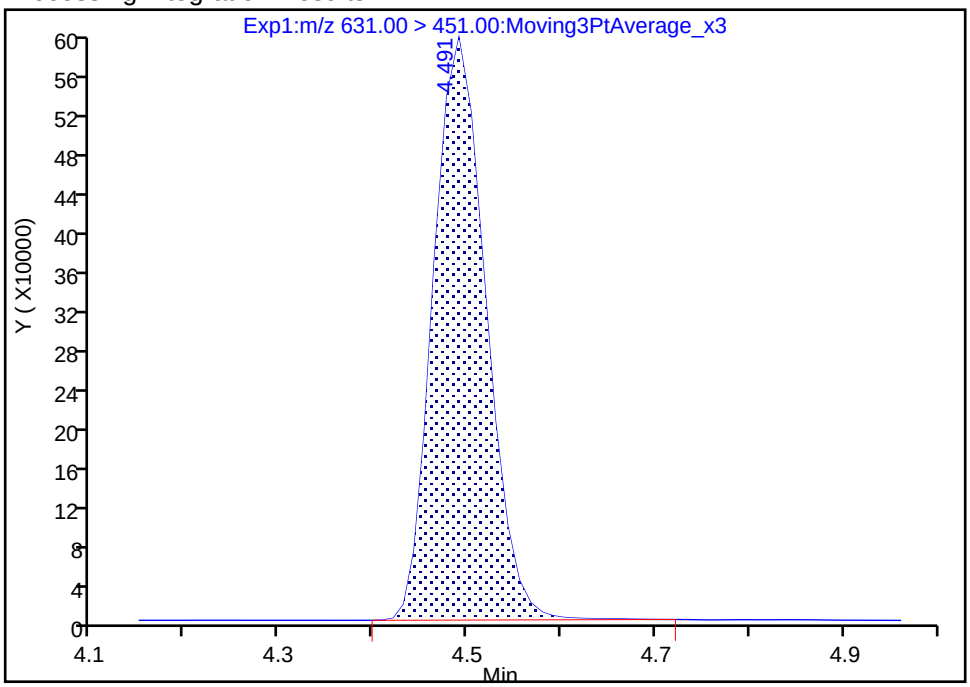
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

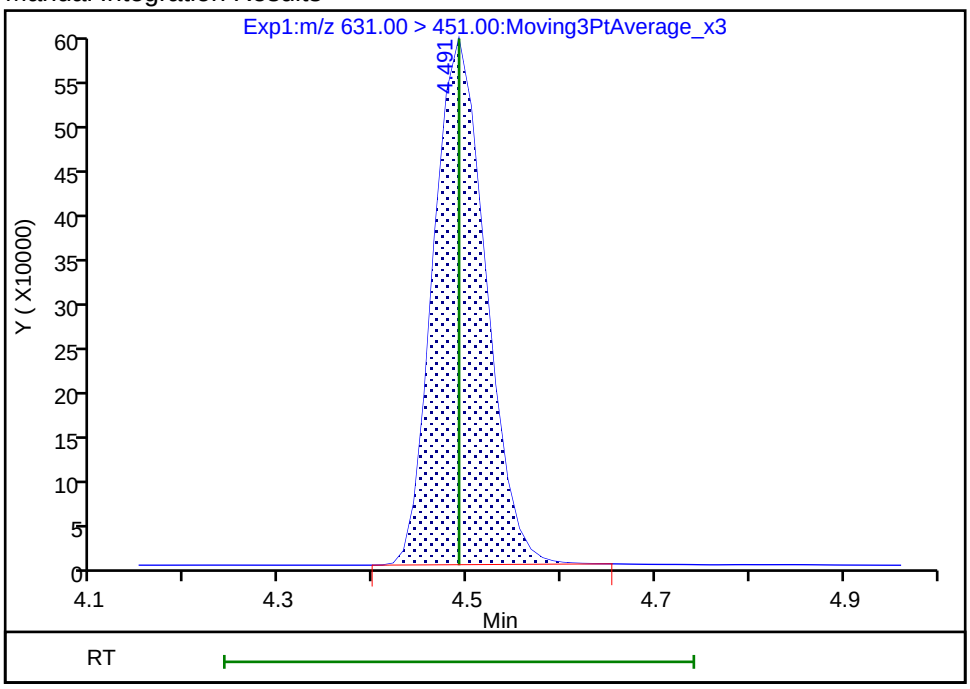
Processing Integration Results

RT: 4.49
Area: 2293551
Amount: 1.028594
Amount Units: ng/ml



Manual Integration Results

RT: 4.49
Area: 2285461
Amount: 1.024966
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:21:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

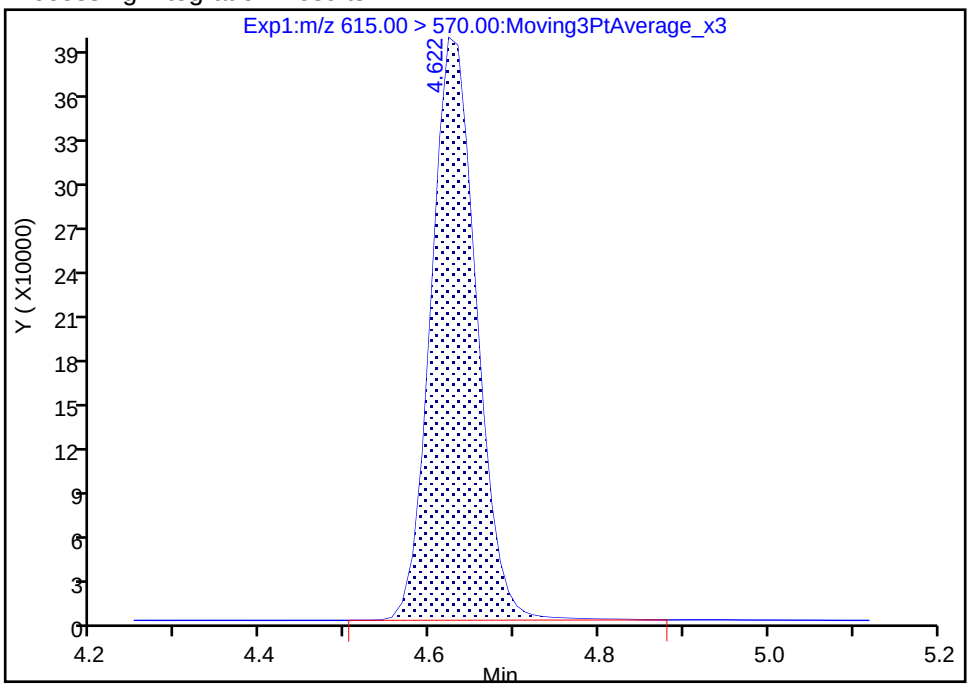
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 36 13C2 PFDoA, CAS: STL00998

Signal: 1

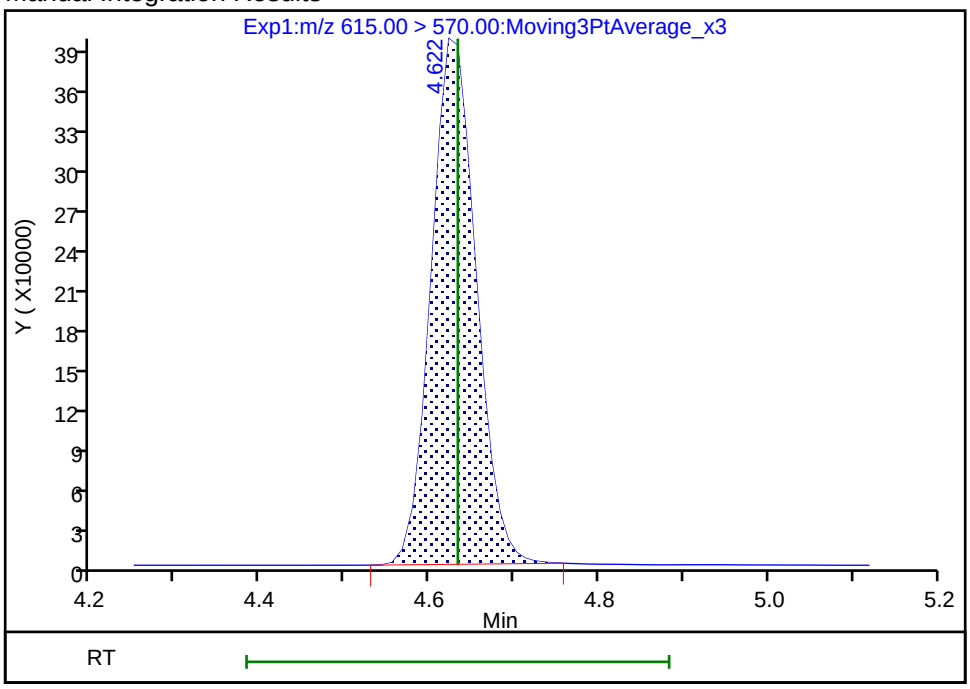
Processing Integration Results

RT: 4.62
Area: 1454800
Amount: 1.265699
Amount Units: ng/ml



Manual Integration Results

RT: 4.62
Area: 1442352
Amount: 1.254870
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:21:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

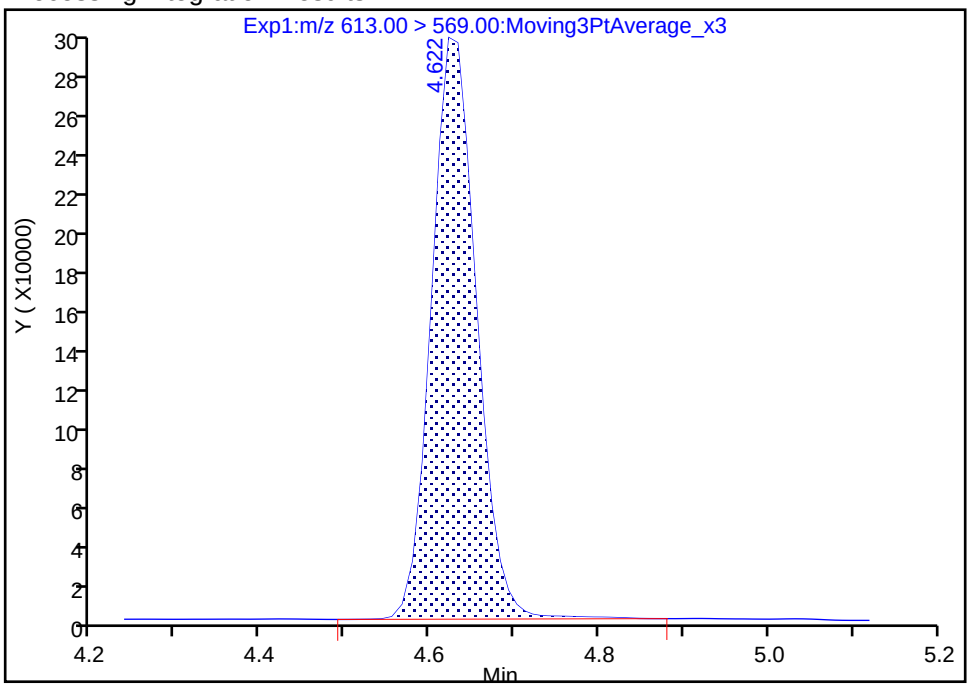
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

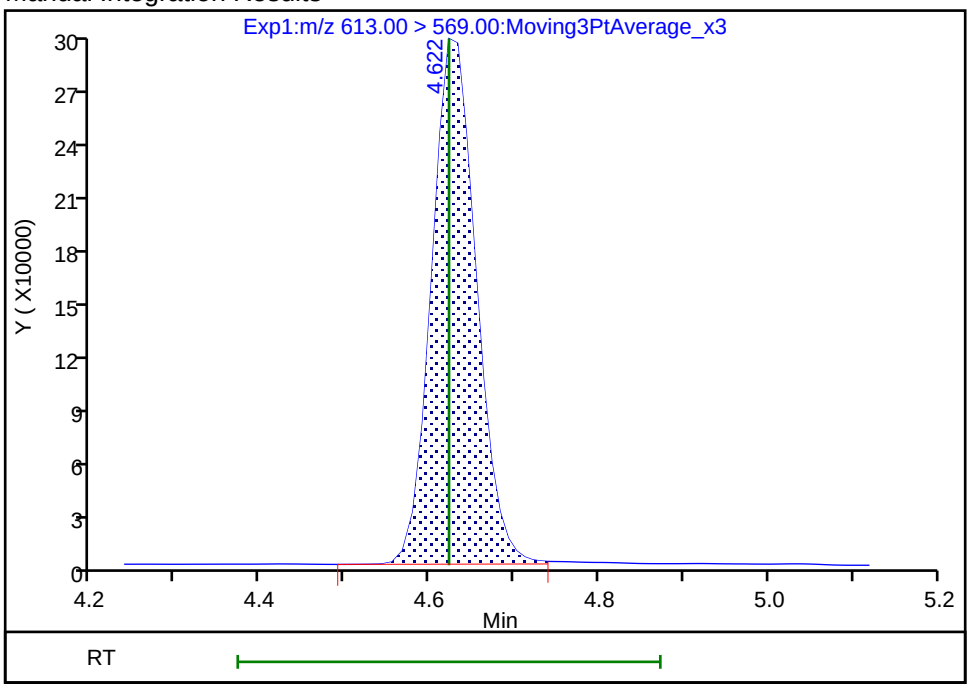
Processing Integration Results

RT: 4.62
Area: 1101225
Amount: 0.917426
Amount Units: ng/ml



Manual Integration Results

RT: 4.62
Area: 1095684
Amount: 0.920688
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:40:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

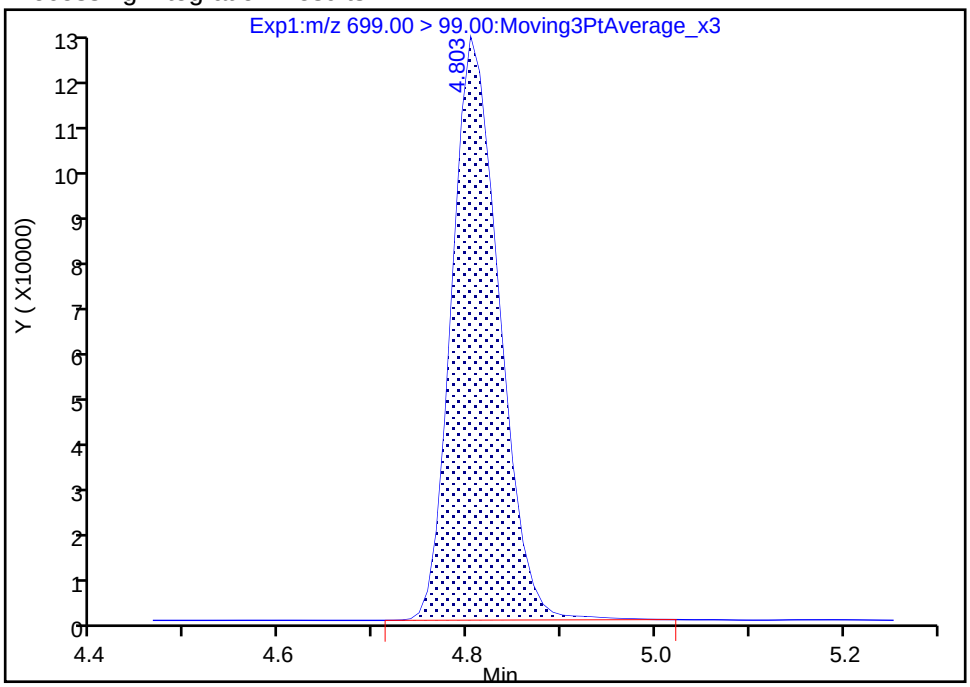
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

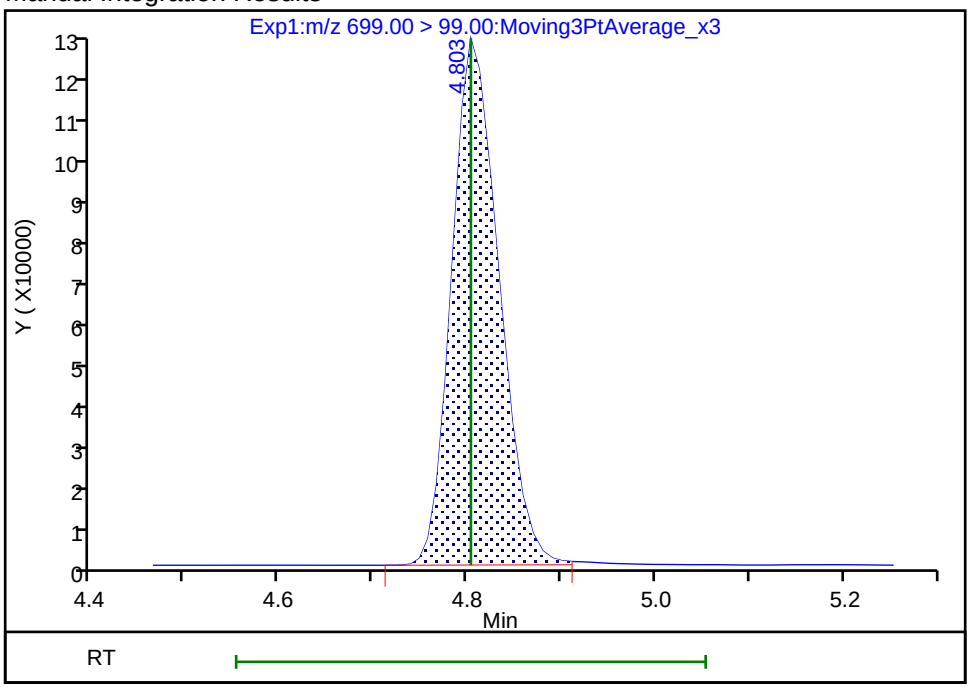
Processing Integration Results

RT: 4.80
Area: 441824
Amount: 0.926867
Amount Units: ng/ml



Manual Integration Results

RT: 4.80
Area: 439889
Amount: 0.926867
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:40:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

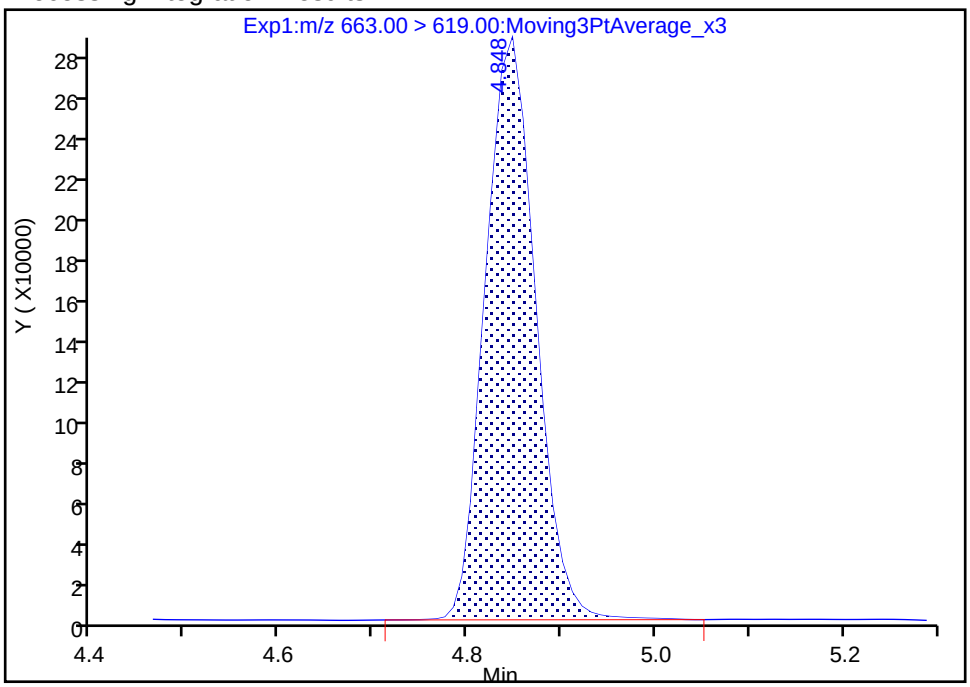
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

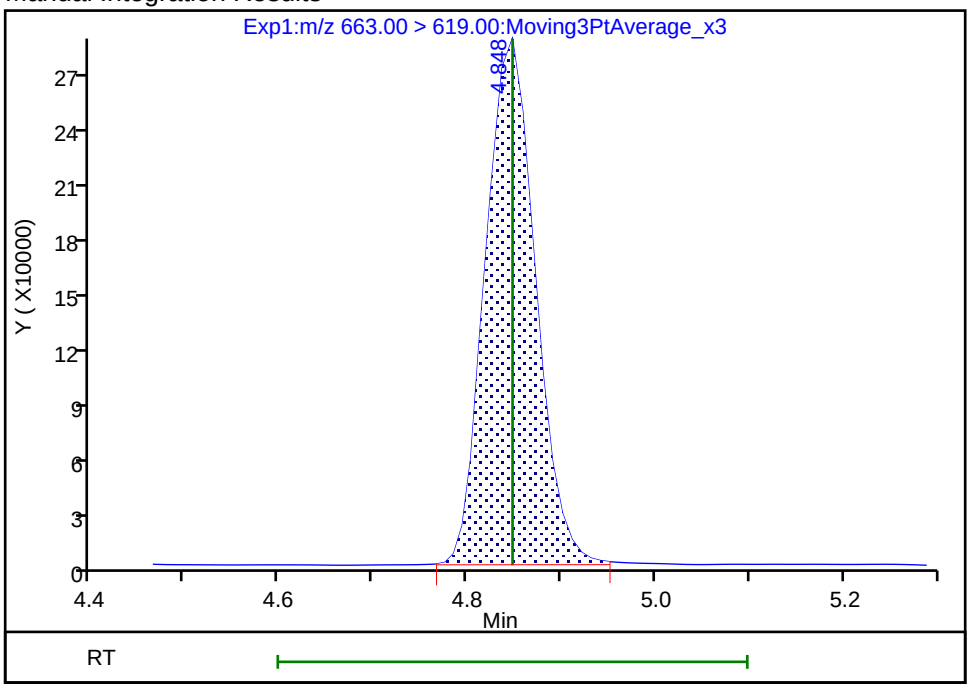
Processing Integration Results

RT: 4.85
Area: 1049630
Amount: 1.026705
Amount Units: ng/ml



Manual Integration Results

RT: 4.85
Area: 1045805
Amount: 1.031792
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:41:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

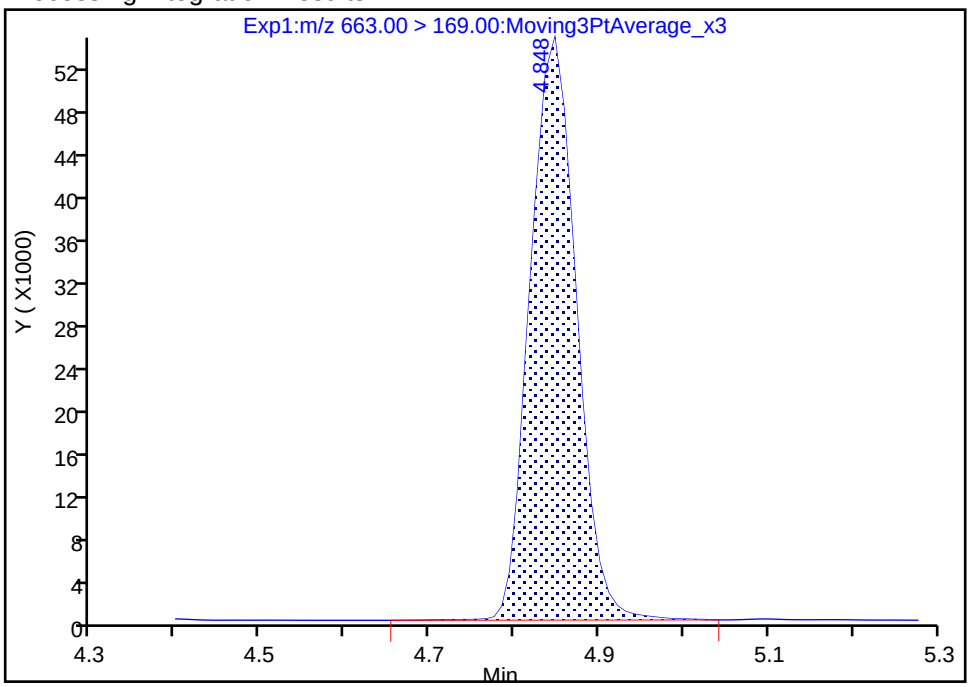
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d				
Injection Date:	13-Jun-2022 19:19:48	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

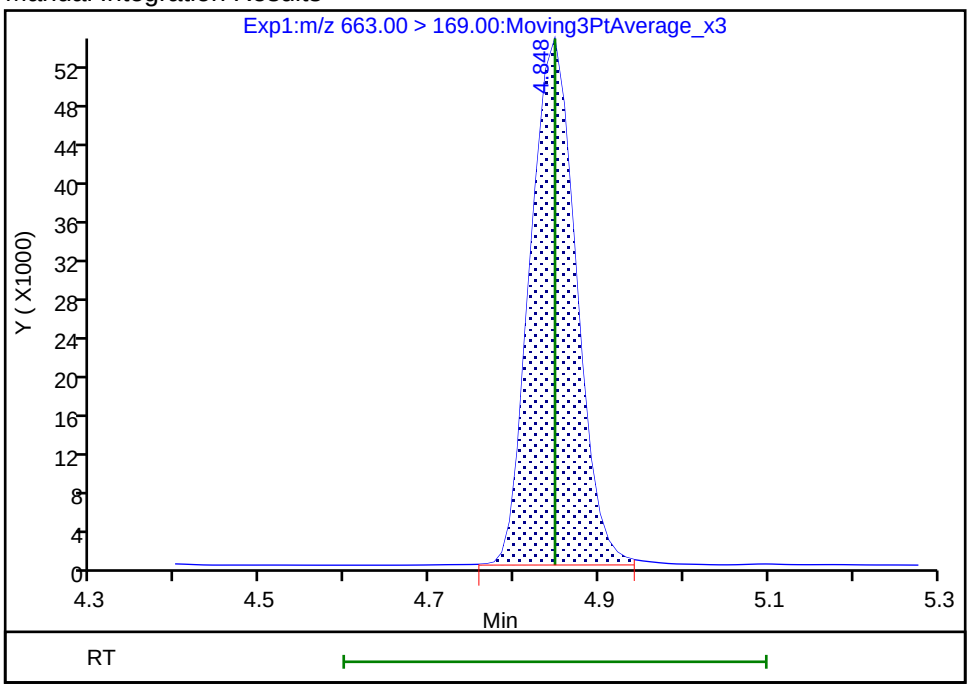
Processing Integration Results

RT: 4.85
Area: 207728
Amount: 1.026705
Amount Units: ng/ml



Manual Integration Results

RT: 4.85
Area: 206538
Amount: 1.031792
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:41:13

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

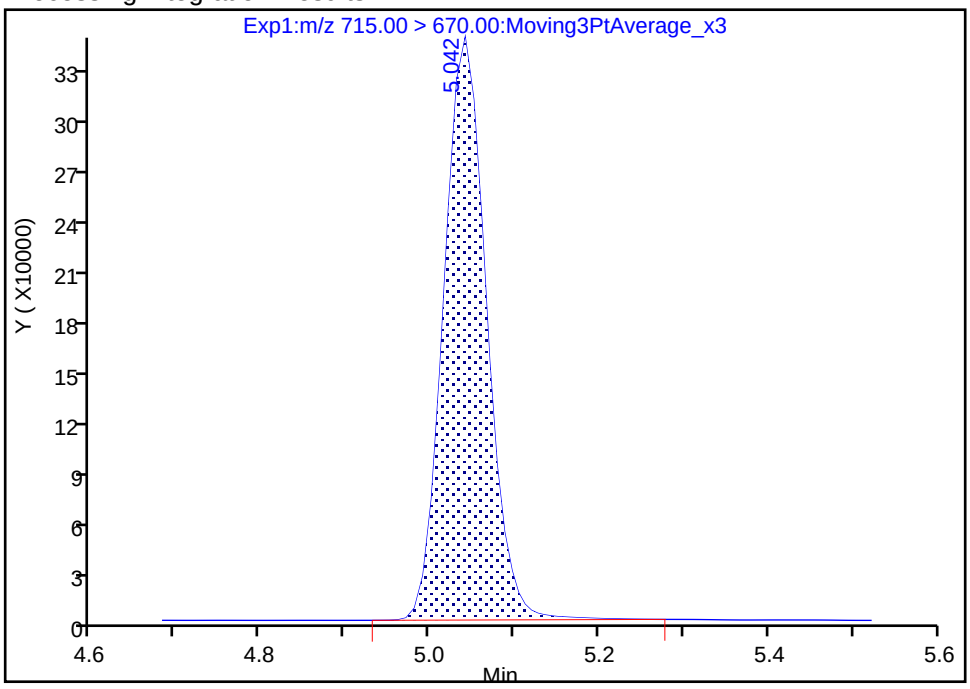
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

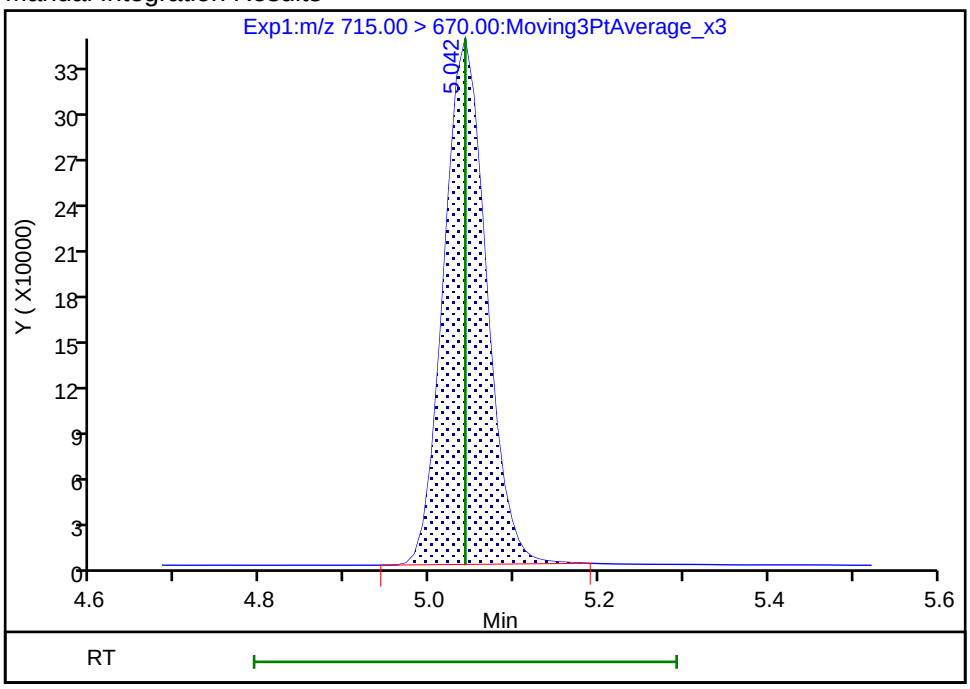
Processing Integration Results

RT: 5.04
Area: 1195349
Amount: 1.272455
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 1187588
Amount: 1.264193
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:21:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

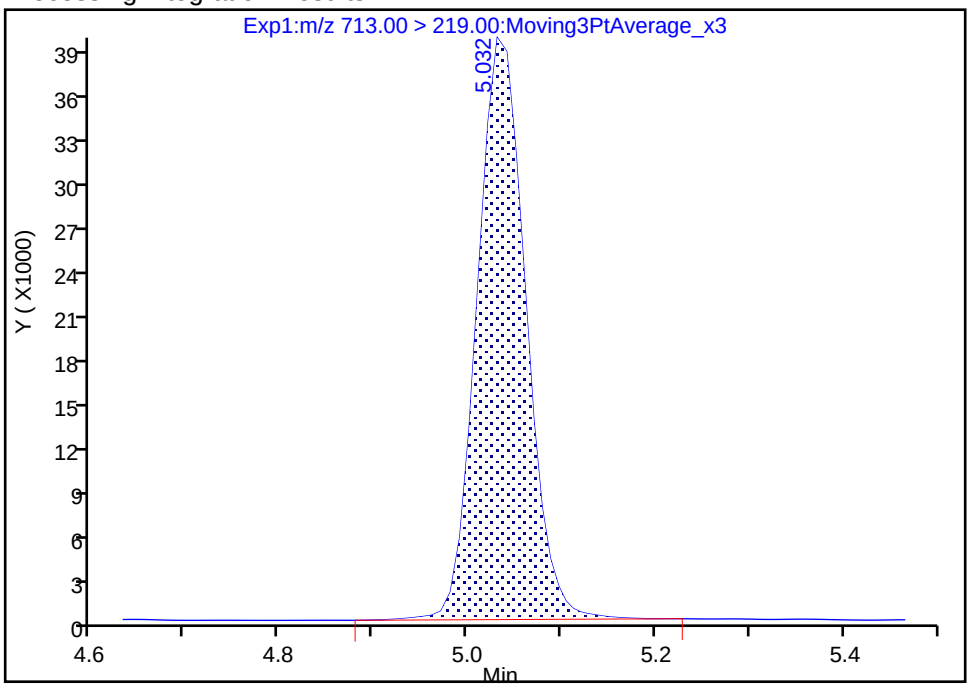
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

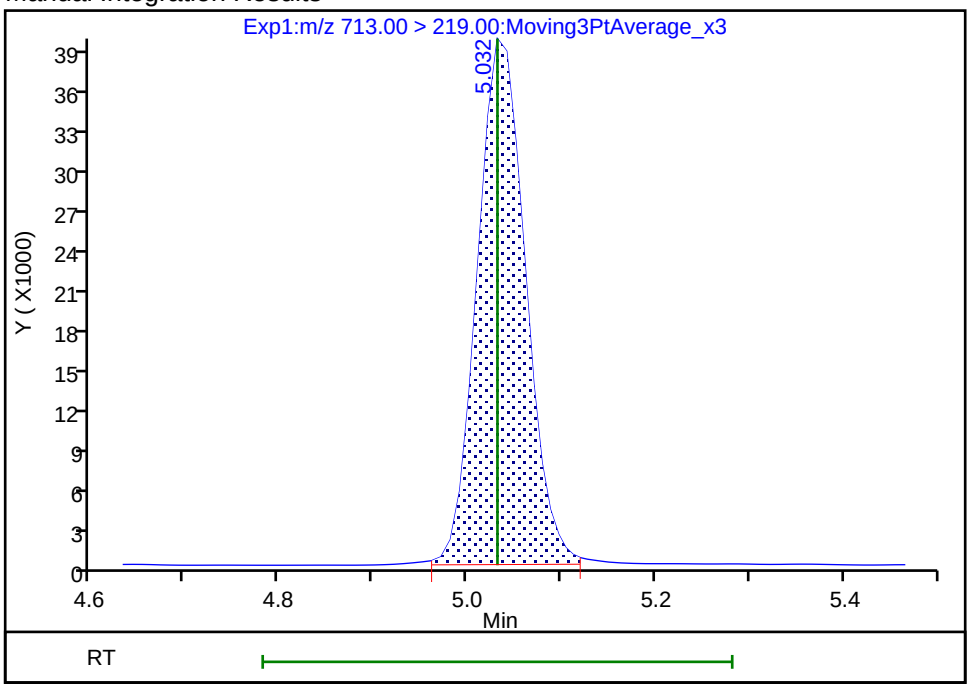
Processing Integration Results

RT: 5.03
Area: 140747
Amount: 0.899170
Amount Units: ng/ml



Manual Integration Results

RT: 5.03
Area: 139597
Amount: 0.905046
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:40:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

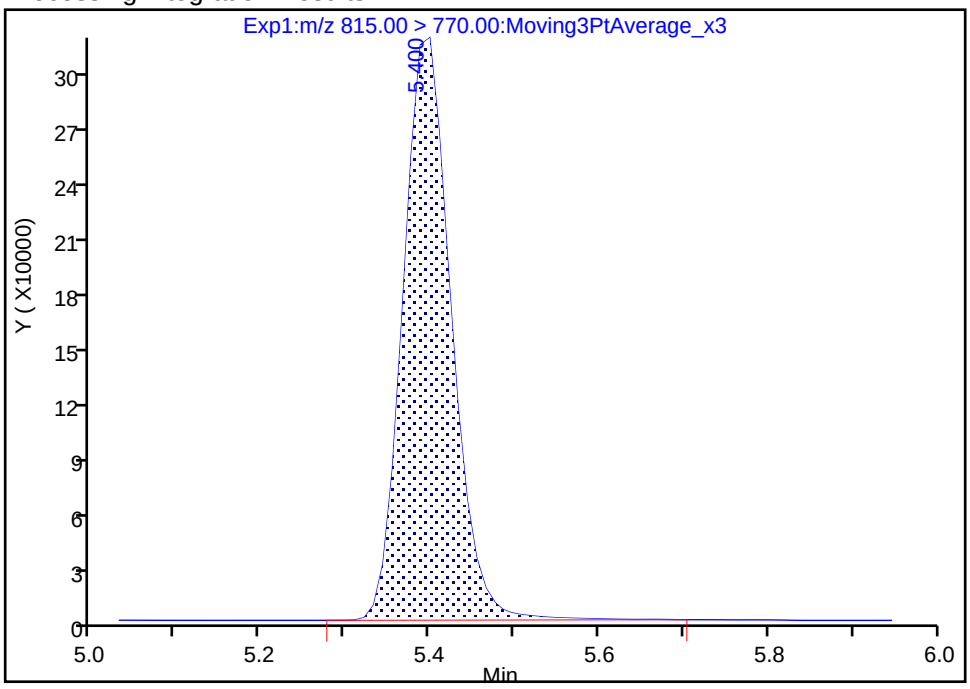
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

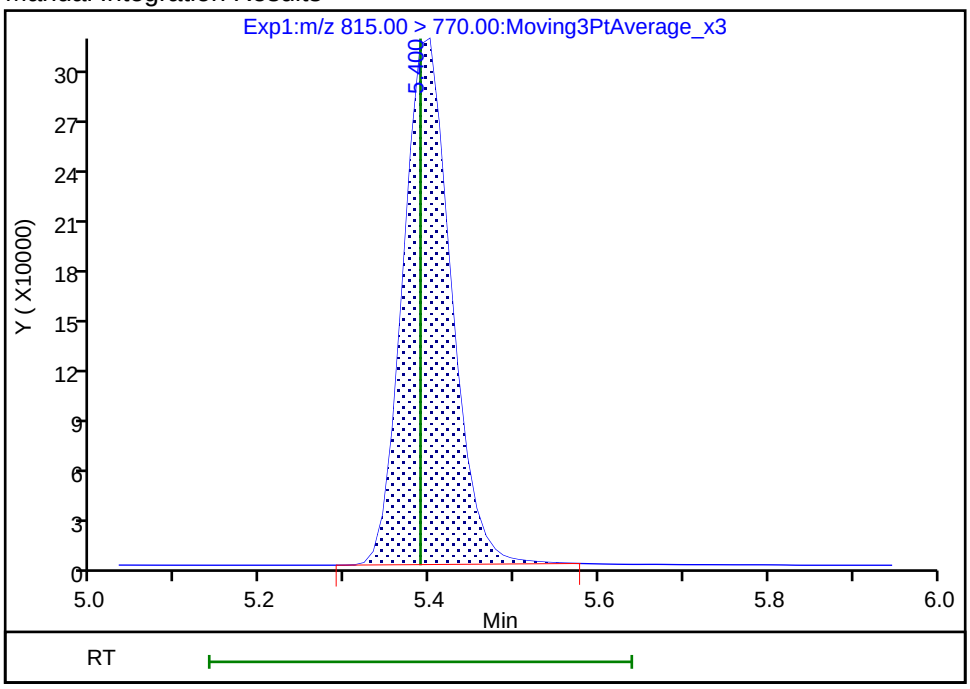
Processing Integration Results

RT: 5.40
Area: 1258205
Amount: 1.292115
Amount Units: ng/ml



Manual Integration Results

RT: 5.40
Area: 1248942
Amount: 1.282603
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:21:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

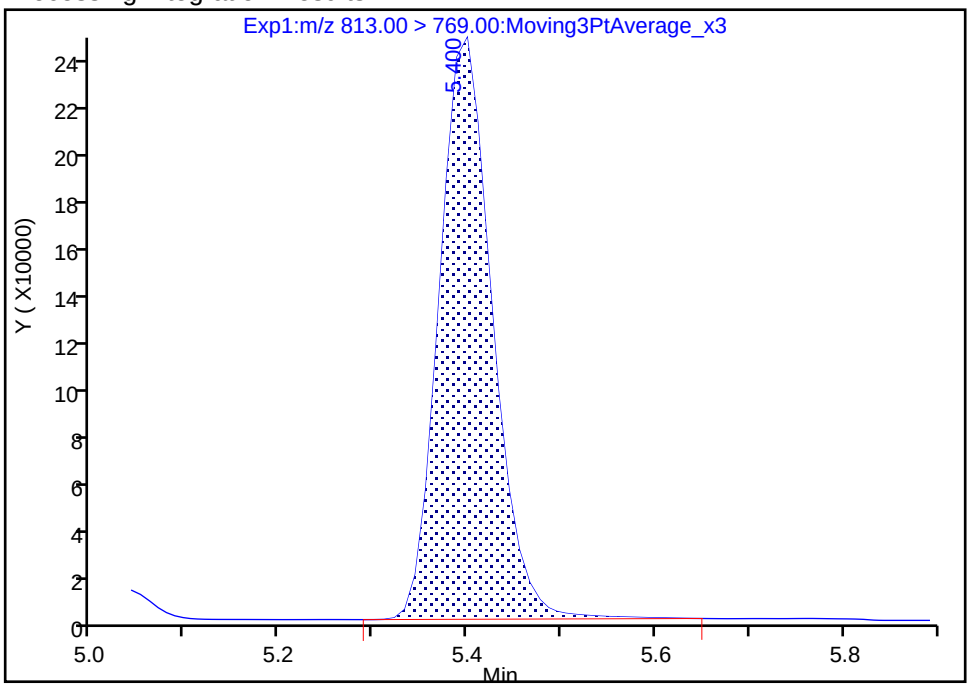
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

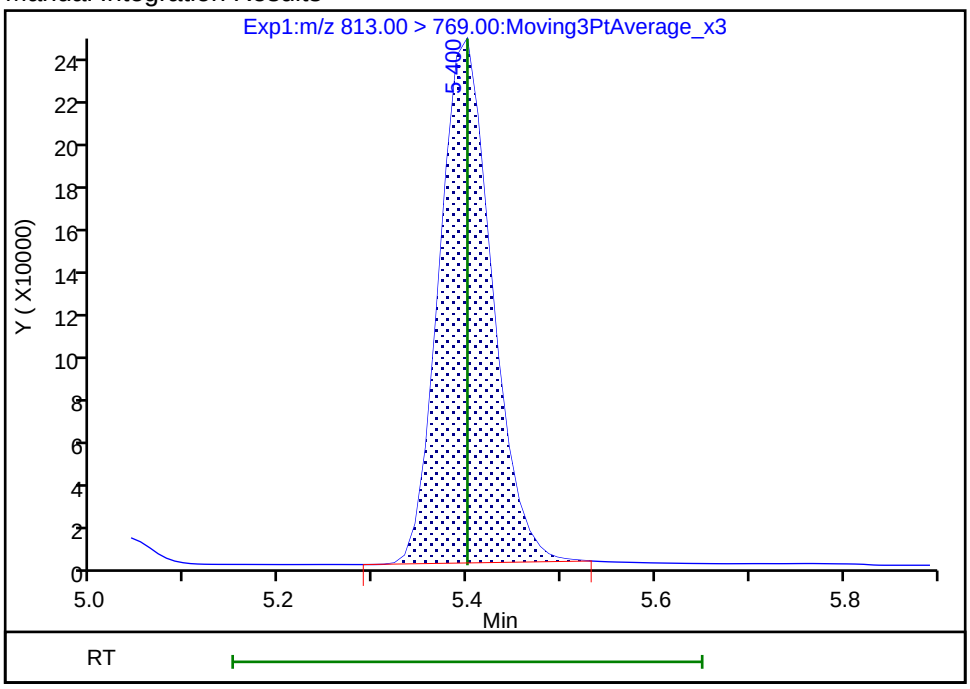
Processing Integration Results

RT: 5.40
Area: 971540
Amount: 1.088692
Amount Units: ng/ml



Manual Integration Results

RT: 5.40
Area: 957977
Amount: 1.073213
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:21:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

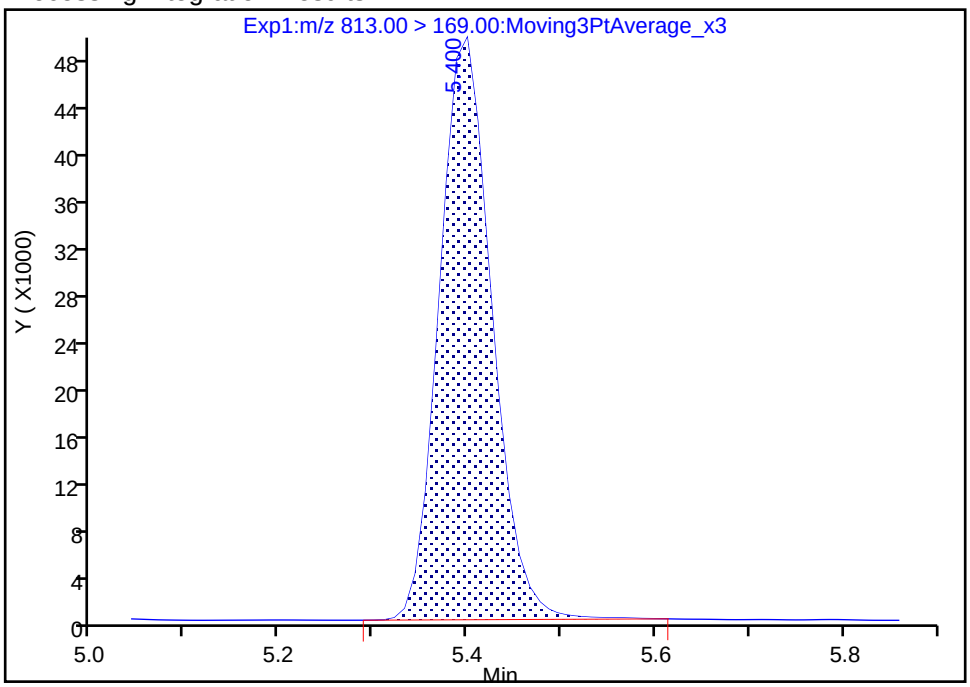
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

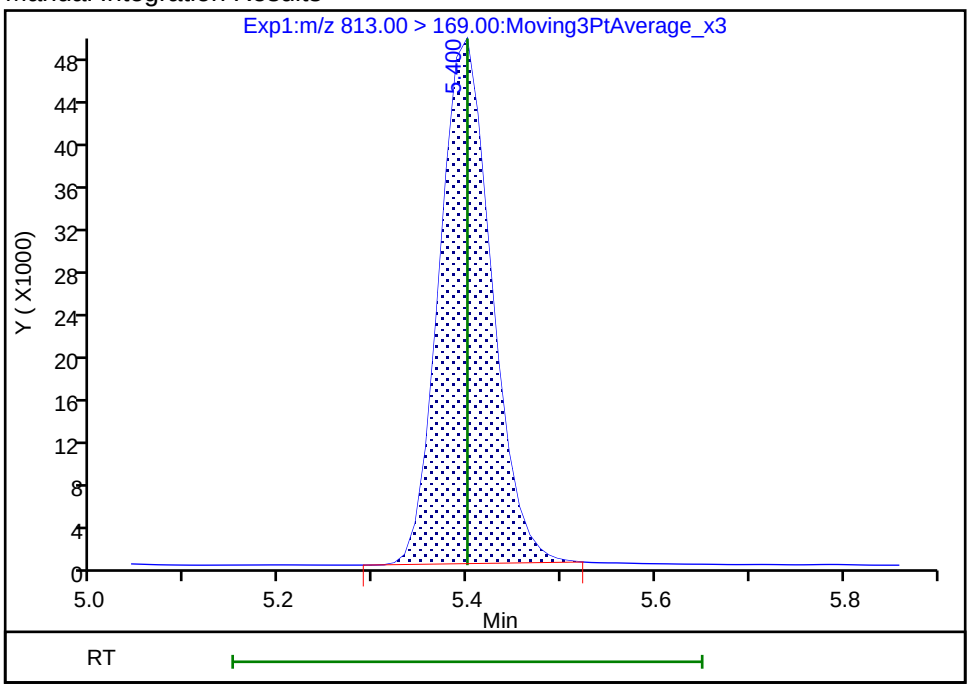
Processing Integration Results

RT: 5.40
Area: 189797
Amount: 1.088692
Amount Units: ng/ml



Manual Integration Results

RT: 5.40
Area: 187890
Amount: 1.073213
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:21:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

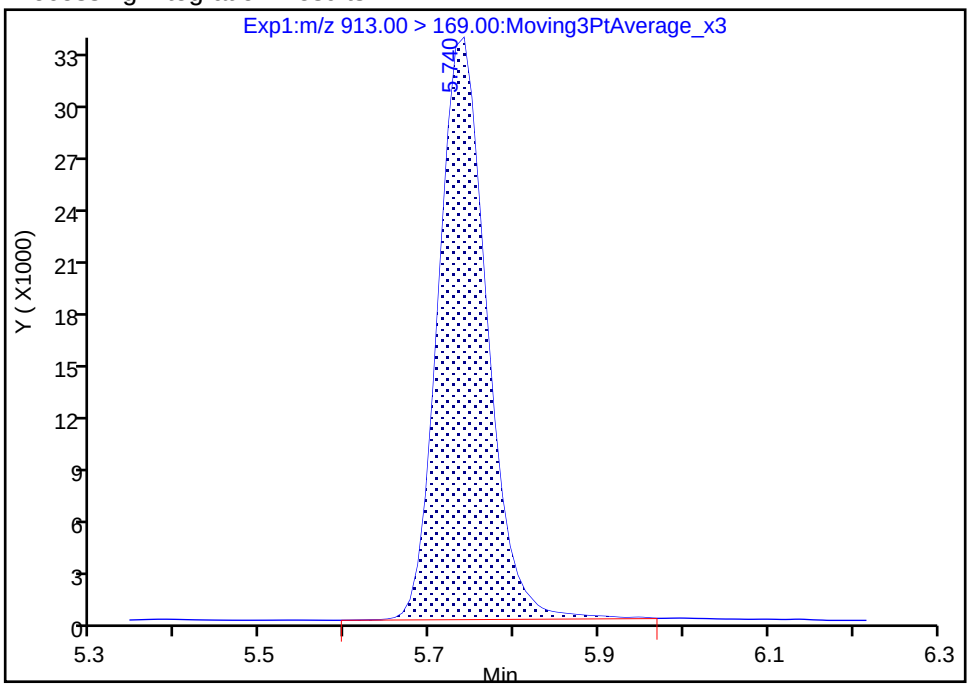
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

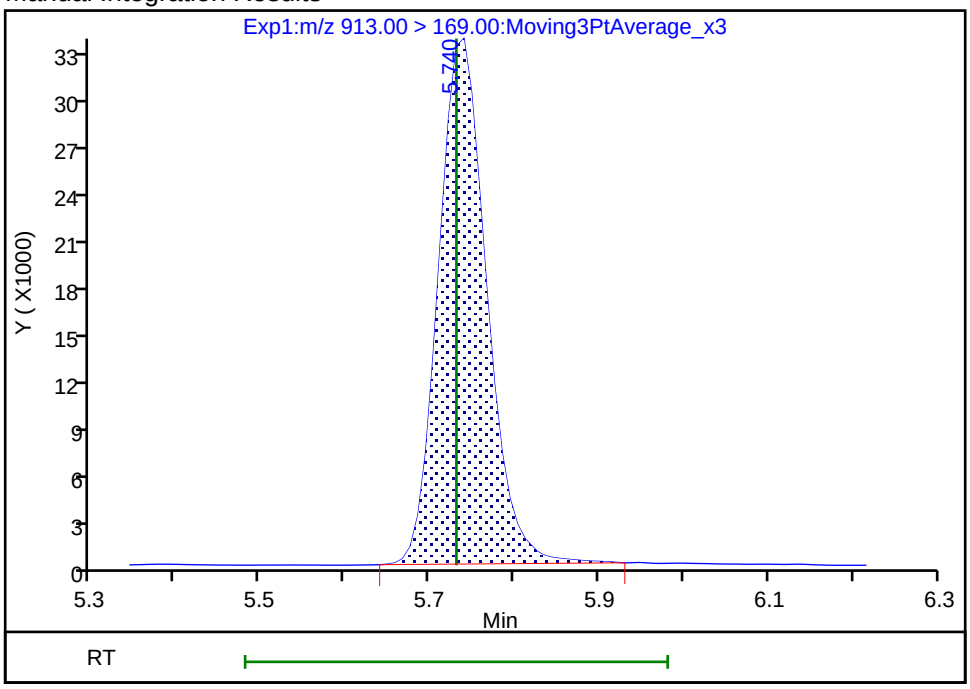
Processing Integration Results

RT: 5.74
Area: 134072
Amount: 1.006236
Amount Units: ng/ml



Manual Integration Results

RT: 5.74
Area: 133203
Amount: 0.993292
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:41:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

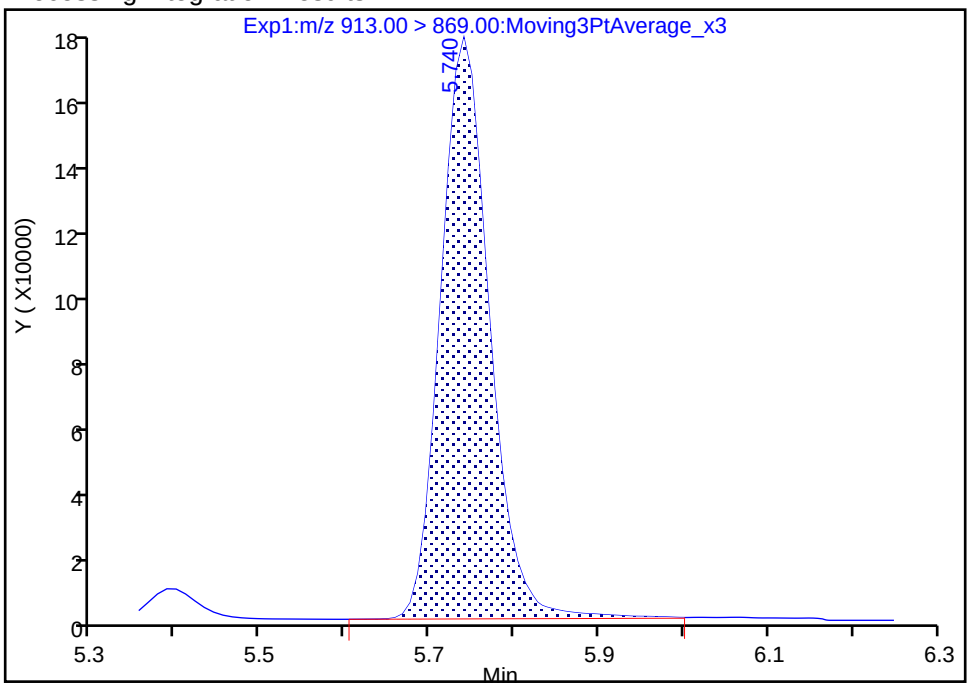
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A17.d
Injection Date: 13-Jun-2022 19:19:48 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

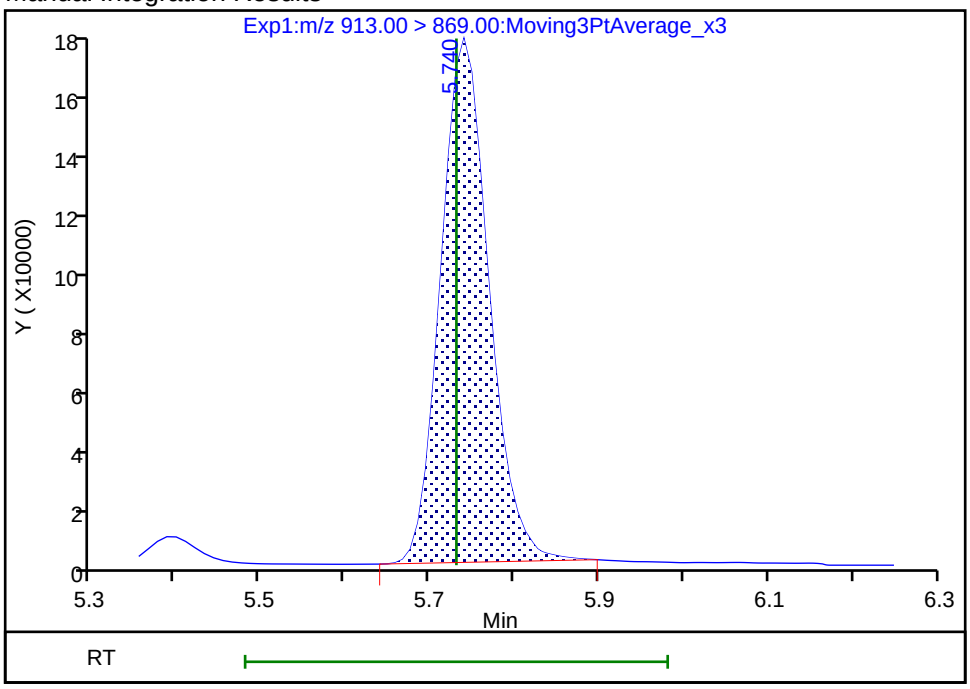
Processing Integration Results

RT: 5.74
Area: 705578
Amount: 1.006236
Amount Units: ng/ml



Manual Integration Results

RT: 5.74
Area: 691374
Amount: 0.993292
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:21:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: CCV 200-180744/32 Calibration Date: 06/13/2022 21:22

Instrument ID: LC812 Calib Start Date: 05/05/2022 15:13

GC Column: C-18 ID: 4.60(mm) Calib End Date: 05/05/2022 15:54

Lab File ID: PA220613A32.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9437	0.9040		2.39	2.50	-4.2	
Perfluoropentanoic acid (PFPeA)	AveID	1.019	1.009		2.48	2.50	-1.0	
Perfluorobutanesulfonic acid (PFBS)	AveID	1.090	1.035		2.10	2.21	-5.0	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	2.511	2.558		2.38	2.34	1.9	
Perfluorohexanoic acid (PFHxA)	AveID	1.079	1.003		2.32	2.50	-7.0	
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.235	1.270		2.41	2.35	2.9	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.091	1.037		2.38	2.50	-5.0	
Perfluoroheptanoic acid (PFHpA)	AveID	1.011	1.026		2.54	2.50	1.5	
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.105	1.065		2.19	2.28	-3.7	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	3.195	3.727		2.75	2.36	16.7	
6:2 FTS	L1ID		1.639		2.51	2.37	5.7	30.0
Perfluoroheptanesulfonic acid (PFHpS)	AveID	1.202	1.171		2.32	2.38	-2.6	
Perfluorooctanoic acid (PFOA)	AveID	1.120	1.085		2.42	2.50	-3.1	
Perfluorooctanesulfonic acid (PFOS)	AveID	1.068	1.002		2.18	2.32	-6.2	
Perfluorononanoic acid (PFNA)	AveID	0.9672	0.9106		2.35	2.50	-5.9	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	AveID	1.765	1.865		2.46	2.33	5.7	
Perfluorononanesulfonic acid (PFNS)	AveID	0.8088	0.7614		2.26	2.40	-5.9	
Perfluorodecanoic acid (PFDA)	AveID	1.065	1.020		2.39	2.50	-4.3	
8:2 FTS	AveID	1.113	1.157		2.49	2.40	4.0	
Perfluorooctanesulfonamide (FOSA)	AveID	1.015	0.9737		2.40	2.50	-4.0	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9094	0.8608		2.37	2.50	-5.3	
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6168	0.5655		2.21	2.41	-8.3	
Perfluoroundecanoic acid (PFUnA)	AveID	1.031	0.9869		2.39	2.50	-4.2	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9381	0.8978		2.39	2.50	-4.3	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	AveID	2.441	2.594		2.50	2.36	6.2	
Perfluorododecanoic acid (PFDoA)	AveID	1.031	0.9865		2.39	2.50	-4.4	
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.5535	0.5822		2.53	2.41	5.2	
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2803	0.2515		2.17	2.42	-10.3	

FORM VII 537 (modified)

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: CCV 200-180744/32 Calibration Date: 06/13/2022 21:22

Instrument ID: LC812 Calib Start Date: 05/05/2022 15:13

GC Column: C-18 ID: 4.60(mm) Calib End Date: 05/05/2022 15:54

Lab File ID: PA220613A32.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.8784	0.9327		2.65	2.50	6.2	
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1545	0.1461		2.36	2.50	-5.5	
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.9060		2.56	2.50	2.5	30.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.6966	0.7213		2.59	2.50	3.5	
13C4 PFBA	Ave	1.062	1.190		1.40	1.25	12.1	
13C5 PFPeA	Ave	0.8115	0.8738		1.35	1.25	7.7	
13C3 PFBS	Ave	1.177	1.137		1.12	1.16	-3.4	
M2-4:2 FTS	Ave	0.0973	0.0941		1.13	1.17	-3.3	
13C2 PFHxA	Ave	0.8298	0.9199		1.39	1.25	10.9	
13C3 HFPO-DA	Ave	0.1420	0.1496		1.32	1.25	5.3	
13C4 PFHpA	Ave	0.8953	0.9379		1.31	1.25	4.8	50.0
18O2 PFHxS	Ave	0.9203	0.8294		1.07	1.18	-9.9	50.0
M2-6:2 FTS	Ave	0.1501	0.1366		1.08	1.19	-9.0	
13C4 PFOA	Ave	0.9414	0.9418		1.25	1.25	0.0	50.0
13C4 PFOS	Ave	0.7230	0.6413		1.06	1.20	-11.3	50.0
13C5 PFNA	Ave	1.023	1.042		1.27	1.25	1.9	50.0
13C2 PFDA	Ave	0.9850	1.003		1.27	1.25	1.8	
M2-8:2 FTS	Ave	0.1803	0.1704		1.13	1.20	-5.5	
13C8 FOSA	Ave	1.084	0.9869		1.14	1.25	-8.9	
d3-NMeFOSAA	Ave	0.1307	0.1622		1.55	1.25	24.0	
13C2 PFUnA	Ave	0.7909	0.7786		1.23	1.25	-1.6	
d5-NEtFOSAA	Ave	0.1277	0.1576		1.54	1.25	23.4	
13C2 PFDoA	Ave	0.8446	0.7833		1.16	1.25	-7.3	
13C2 PFTeDA	Ave	0.6903	0.6541		1.18	1.25	-5.2	
13C2 PFHxDA	Ave	0.7156	0.7263		1.27	1.25	1.5	

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 13-Jun-2022 21:22:21 ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: 200-0051257-032 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 14-Jun-2022 14:36:38 Calib Date: 05-May-2022 15:54:29
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1636

First Level Reviewer: khanphomeea Date: 14-Jun-2022 11:37:28
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.085	2.085	0.0	0.597	2137158	1.40		112	11259	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.093	2.093	0.0	1.004	3863812	2.39		95.8	474	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.400	0.0	0.687	1569900	1.35		108	3642	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.400	2.400	0.0	1.000	3169352	2.48		99.0	132	M
D 47 13C3 PFBS										
301.90 > 80.00	2.426	2.427	-0.001	0.695	1899737	1.12		96.6	319065	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.426	2.427	-0.001	1.000	3739237	2.10	Target=2.15	95.0	3036	
298.90 > 99.00	2.426	2.427	-0.001	1.000	1692622		2.21(1.07-3.22)		1151	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.725	2.725	0.0	0.781	157841	1.13		96.7	129	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.725	2.725	0.0	1.000	807519	2.38		102	2096	
D 7 13C2 PFHxA										M
315.00 > 270.00	2.762	2.762	0.0	0.791	1652709	1.39		111	2286	M
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.762	2.762	0.0	1.000	3316727	2.32	Target=12.59	93.0	506	M
313.00 > 119.00	2.762	2.762	0.0	1.000	253226		13.10(6.29-18.88)		375	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.762	2.762	0.0	0.882	3550983	2.41	Target=2.96	103	2976	M
349.00 > 99.00	2.762	2.762	0.0	0.882	1155083		3.07(1.48-4.44)		1260	M
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.871	2.871	0.0	0.822	268812	1.32		105	1784	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.871	2.871	0.0	1.000	557355	2.38		95.0	5002	
D 11 18O2 PFHxS										M
403.00 > 84.00	3.132	3.121	0.011	0.897	1409602	1.07		90.1	1486	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.132	3.121	0.011	1.000	2887827	2.19	Target=3.53	96.3	1939	M
399.00 > 99.00	3.132	3.121	0.011	1.000	828068		3.49(1.76-5.29)		785	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.132	3.132	0.0	0.897	1685125	1.31		105	3153	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.132	3.132	0.0	1.000	3458391	2.54	Target=3.75	102	718	M
363.00 > 169.00	3.132	3.132	0.0	1.000	890037		3.89(1.87-5.62)		913	M
77 DONA										M
377.00 > 251.00	3.165	3.165	0.0	0.832	8091196	2.75	Target=2.77	117	3133	M
377.00 > 85.00	3.165	3.165	0.0	0.832	2945181		2.75(1.38-4.15)		2485	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.474	3.474	0.0	0.914	2568289	2.32	Target=4.90	97.4	1572	M
449.00 > 99.00	3.474	3.474	0.0	0.914	513704		5.00(2.45-7.35)		991	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.474	3.474	0.0	0.995	233182	1.08		91.0	461	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.474	3.474	0.0	1.000	762604	2.51		106	309	M
* 62 13C2 PFOA										M
415.00 > 370.00	3.491	3.482	0.009		1796643	1.25			1807	M
D 14 13C4 PFOA										
417.00 > 372.00	3.491	3.482	0.009	1.000	1691994	1.25		100	3433	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.491	3.482	0.009	1.000	3672726	2.42	Target=2.68	96.9	295	M
413.00 > 169.00	3.491	3.482	0.009	1.000	1321650		2.78(1.34-4.02)		1321	M
D 18 13C4 PFOS										
503.00 > 80.00	3.802	3.802	0.0	1.089	1101494	1.06		88.7	3743	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.802	3.802	0.0	1.000	2142504	2.18	Target=4.47	93.8	1738	M
499.00 > 99.00	3.802	3.802	0.0	1.000	460020		4.66(2.24-6.71)		935	M
D 19 13C5 PFNA										M
468.00 > 423.00	3.822	3.822	0.0	1.095	1872002	1.27		102	2994	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.822	3.822	0.0	1.000	3409129	2.35	Target=7.74	94.1	608	M
463.00 > 169.00	3.822	3.822	0.0	1.000	473202		7.20(3.87-11.61)		1435	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.969	3.969	0.0	1.044	4004358	2.46		106	2682	M
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.104	4.093	0.011	1.079	1684263	2.26	Target=2.49	94.1	1865	M
549.00 > 99.00	4.104	4.093	0.011	1.079	678386		2.48(1.24-3.73)		1970	
D 23 13C2 PFDA										M
515.00 > 470.00	4.127	4.127	0.0	1.182	1802390	1.27		102	2285	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.127	4.127	0.0	1.000	3676095	2.39	Target=9.31	95.7	1112	M
513.00 > 169.00	4.127	4.127	0.0	1.000	404492		9.09(4.65-13.96)		1198	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.138	4.127	0.011	1.000	678893	2.49		104	2298	M
D 26 M2-8:2 FTS										M
529.00 > 81.00	4.138	4.127	0.011	1.185	293301	1.13		94.5	852	M
D 21 13C8 FOSA										M
506.00 > 78.00	4.195	4.195	0.0	1.202	1773151	1.14		91.1	2736	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.195	4.195	0.0	1.000	3453045	2.40		96.0	2930	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.273	4.261	0.012	1.224	291352	1.55		124	465	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.273	4.273	0.0	1.000	501581	2.37		94.7	735	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.364	4.365	-0.001	1.148	1256239	2.21	Target=2.56	91.7	1650	M
599.00 > 99.00	4.364	4.365	-0.001	1.148	505756		2.48(1.28-3.84)		1573	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.398	4.387	0.011	1.000	2761019	2.39	Target=9.41	95.8	1113	M
563.00 > 169.00	4.398	4.387	0.011	1.000	305428		9.04(4.70-14.11)		1868	
D 30 13C2 PFUnA										
565.00 > 520.00	4.398	4.387	0.011	1.260	1398848	1.23		98.4	3424	
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.410	4.398	0.012	1.263	283076	1.54		123	1031	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.410	4.410	0.0	1.000	508301	2.39		95.7	1475	M
66 11-Chloroeicosafluoro-3-oxaundec										M
631.00 > 451.00	4.491	4.491	0.0	1.181	5630511	2.50		106	1904	M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.633	4.622	0.011	1.000	2776638	2.39	Target=6.95	95.6	340	M
613.00 > 169.00	4.633	4.622	0.011	1.000	385325		7.21(3.48-10.43)		1672	M
D 36 13C2 PFDoA										
615.00 > 570.00	4.633	4.633	0.0	1.327	1407327	1.16		92.7	2569	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.654	4.654	0.0	1.125	343643	2.53		105	2114	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.812	4.803	0.009	1.266	560943	2.17	Target=0.55	89.7	1962	M
699.00 > 99.00	4.812	4.803	0.009	1.266	1082218		0.52(0.27-0.82)		2996	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.848	4.848	0.0	1.046	2625352	2.65	Target=4.44	106	358	M
663.00 > 169.00	4.848	4.848	0.0	1.046	499223		5.26(2.22-6.66)		864	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.052	5.032	0.020	1.000	343332	2.36	Target=0.96	94.5	1176	M
713.00 > 219.00	5.042	5.032	0.010	0.998	337655		1.02(0.48-1.44)		949	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.052	5.042	0.010	1.447	1175196	1.18		94.8	1299	M

Report Date: 14-Jun-2022 14:36:39 Chrom Revision: 2.3 18-May-2022 20:00:04
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.400	5.389	0.011	1.547	1304820	1.27		101	2777	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.411	5.400	0.011	1.002	2364231	2.56	Target=4.90	103	340	M
813.00 > 169.00	5.411	5.400	0.011	1.002	459504		5.15(2.45-7.36)		1768	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.749	5.731	0.018	1.065	1882228	2.59	Target=4.81	104	307	M
913.00 > 169.00	5.749	5.731	0.018	1.065	347991		5.41(2.40-7.21)		574	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

PFAS32NCIC5_00027 Amount Added: 100.00 Units: uL

Report Date: 14-Jun-2022 14:36:39 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d

Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812

Lims ID: CCV L5

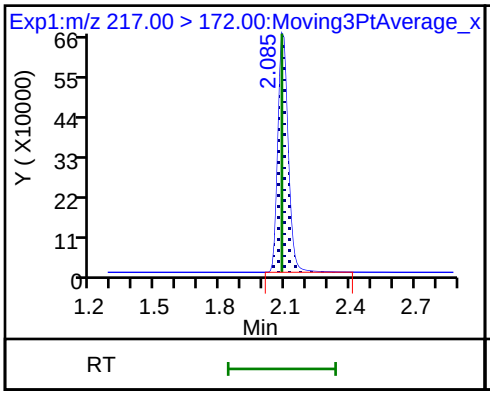
Client ID:

Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32

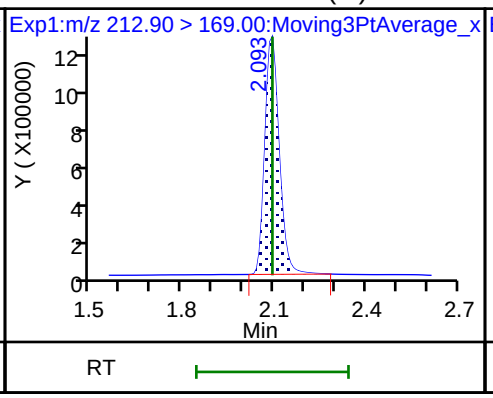
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

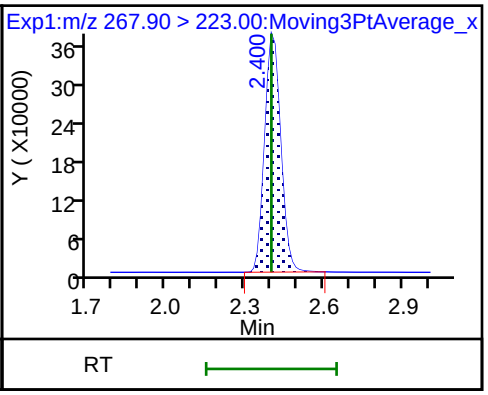
D 1 13C4 PFBA



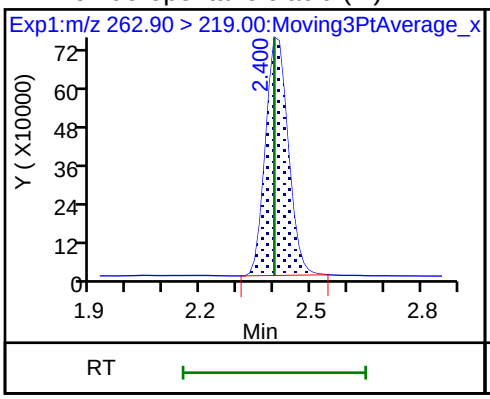
2 Perfluorobutanoic acid (M)



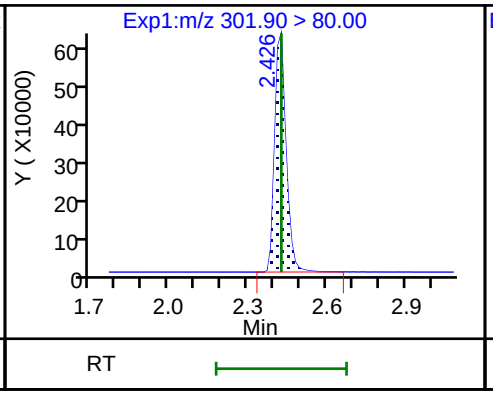
D 3 13C5 PFPeA



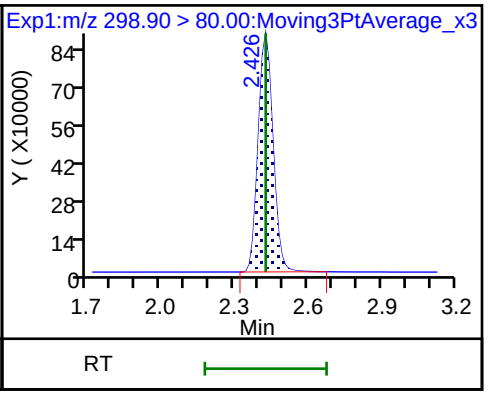
4 Perfluoropentanoic acid (M)



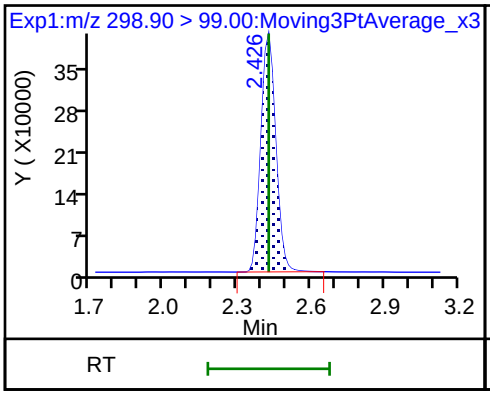
D 47 13C3 PFBS



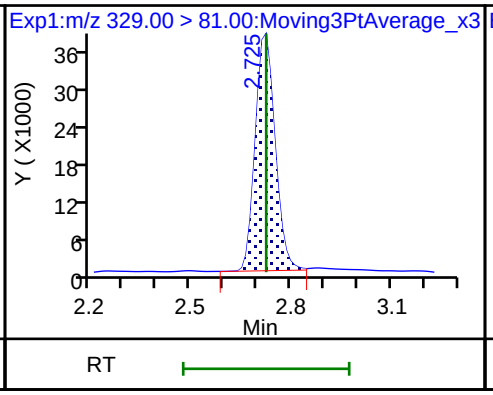
5 Perfluorobutanesulfonic acid



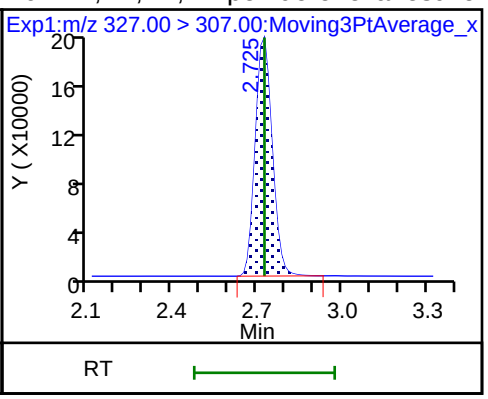
5 Perfluorobutanesulfonic acid



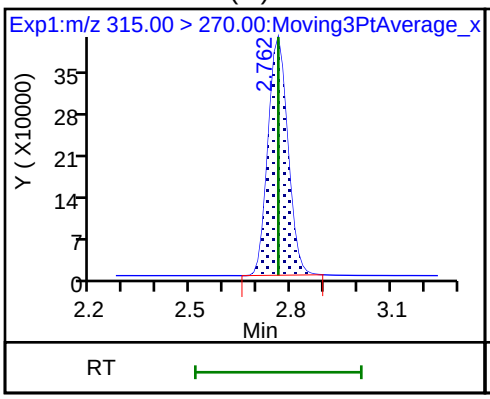
D 60 M2-4:2 FTS



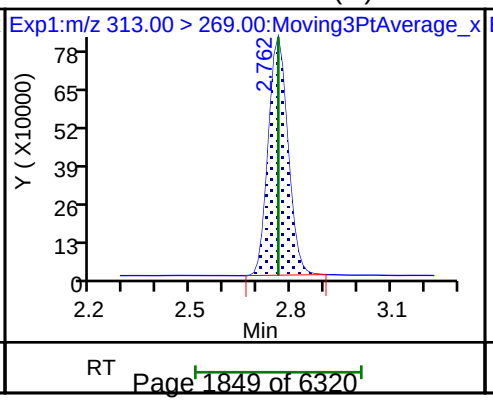
61 1H,1H,2H,2H-perfluorohexanesulfo



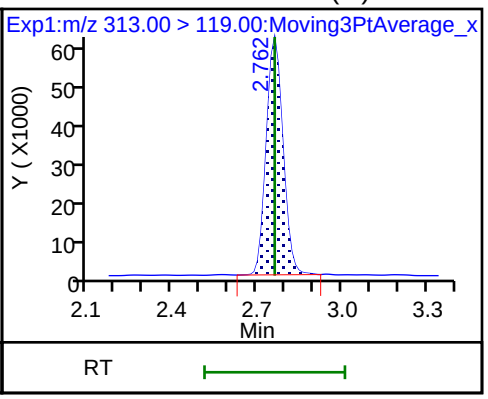
D 7 13C2 PFHxA (M)



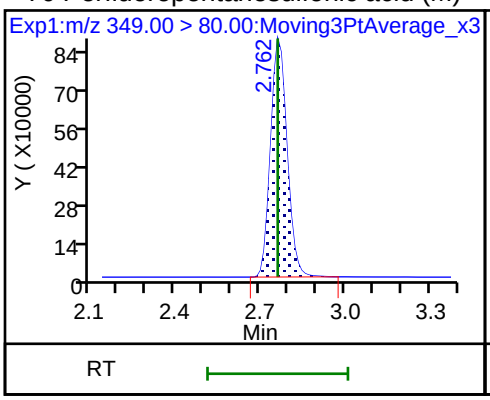
6 Perfluorohexanoic acid (M)



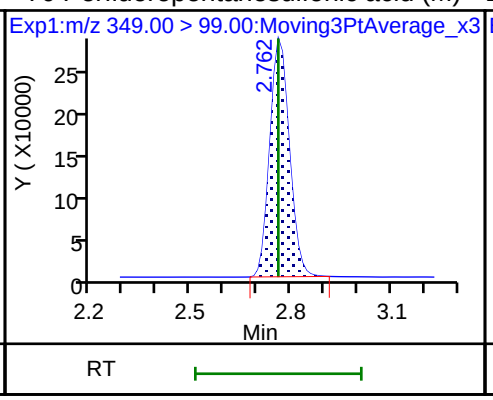
6 Perfluorohexanoic acid (M)



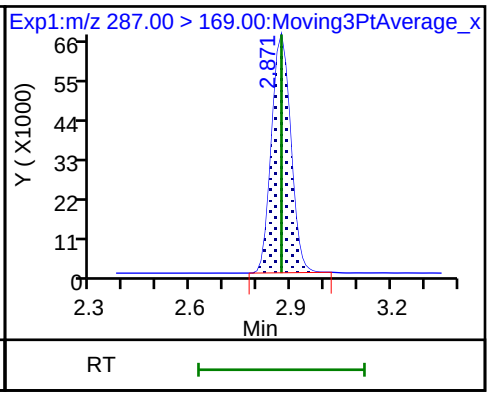
70 Perfluoropentanesulfonic acid (M)



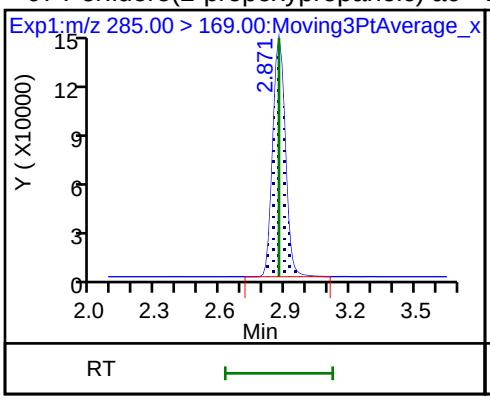
70 Perfluoropentanesulfonic acid (M)



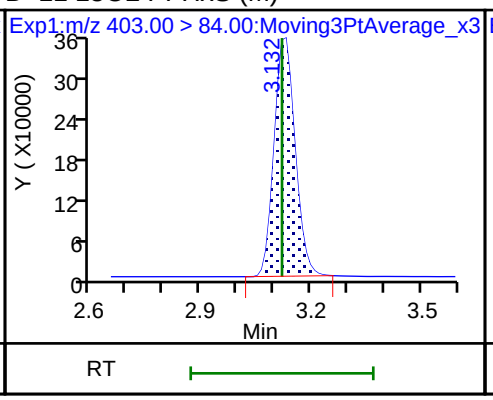
D 64 13C3 HFPO-DA



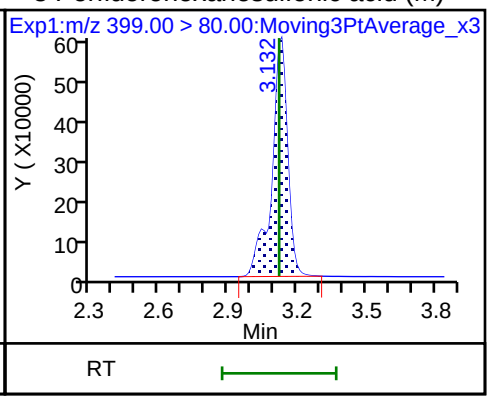
67 Perfluoro(2-propoxypropanoic) ac



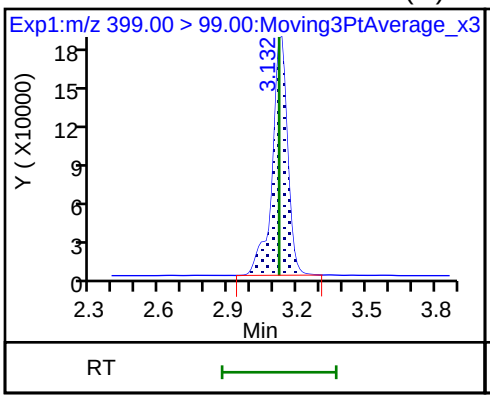
D 11 18O2 PFHxS (M)



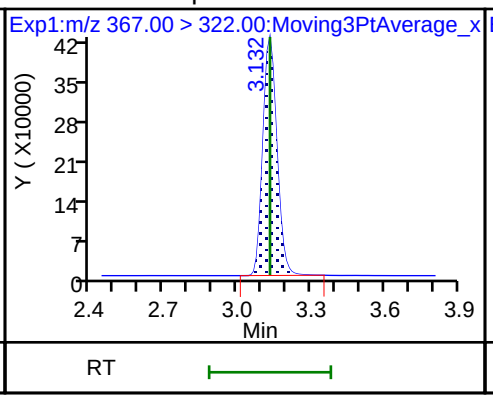
8 Perfluorohexanesulfonic acid (M)



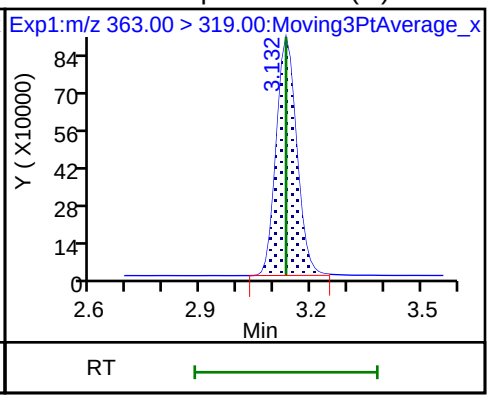
8 Perfluorohexanesulfonic acid (M)



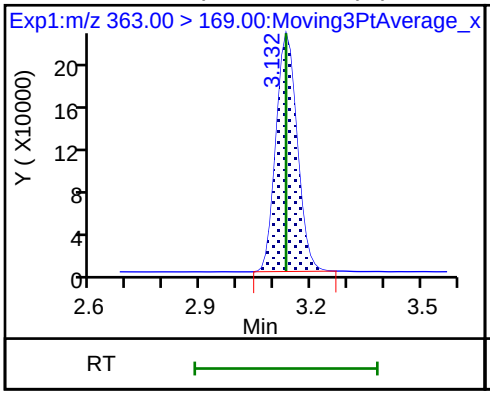
D 9 13C4 PFHpA



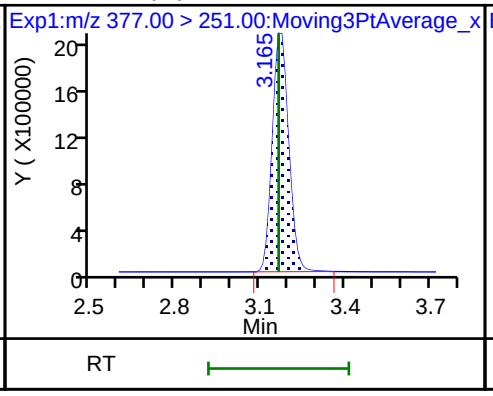
10 Perfluoroheptanoic acid (M)



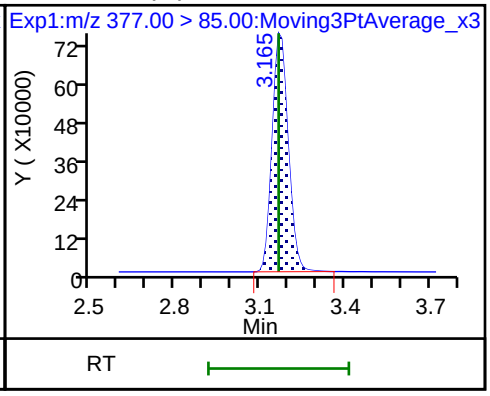
10 Perfluoroheptanoic acid (M)



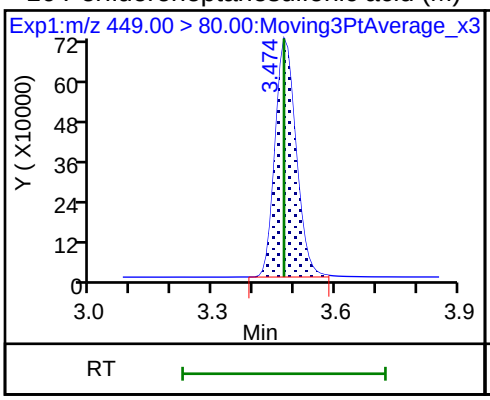
77 DONA (M)



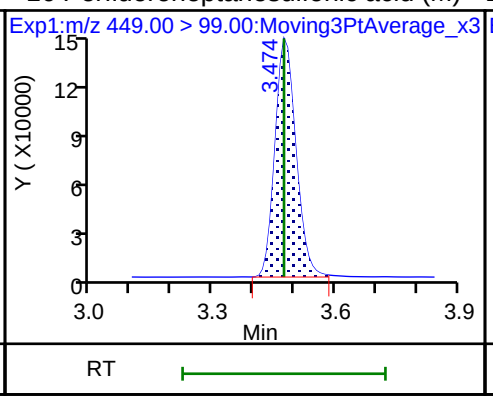
77 DONA (M)



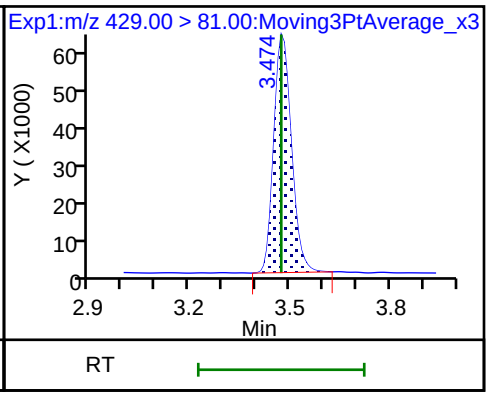
16 Perfluoroheptanesulfonic acid (M)



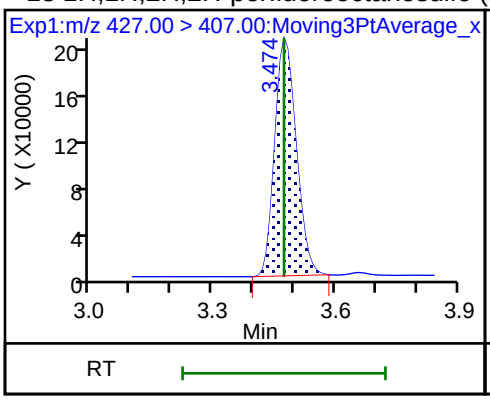
16 Perfluoroheptanesulfonic acid (M)



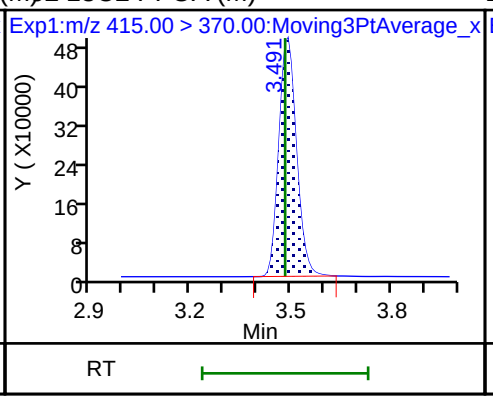
D 12 M2-6:2 FTS



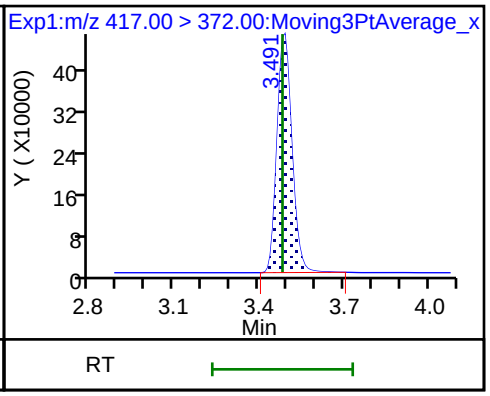
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



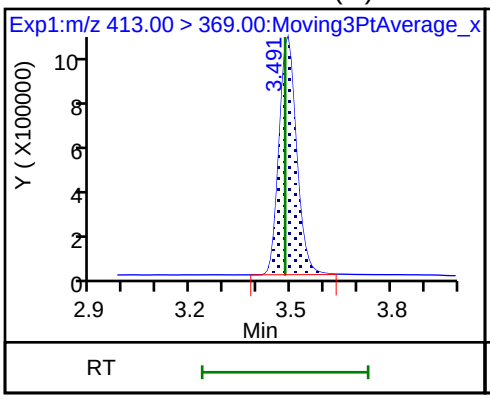
M2 13C2 PFOA (M)



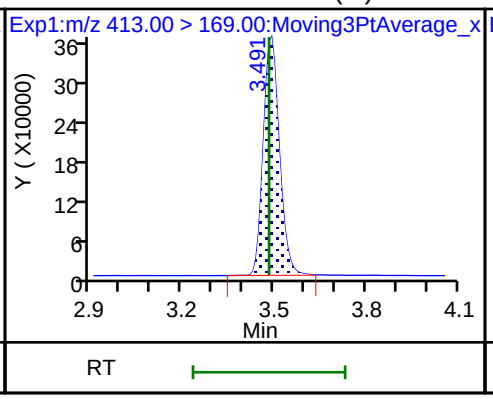
D 14 13C4 PFOA



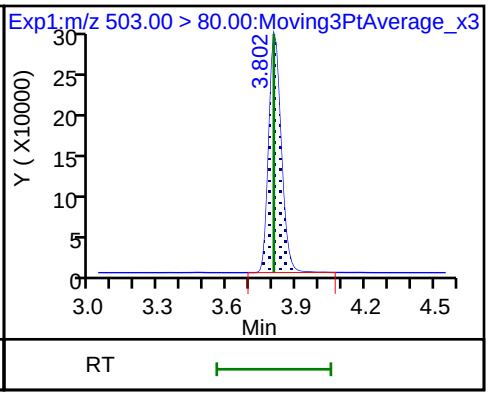
15 Perfluorooctanoic acid (M)



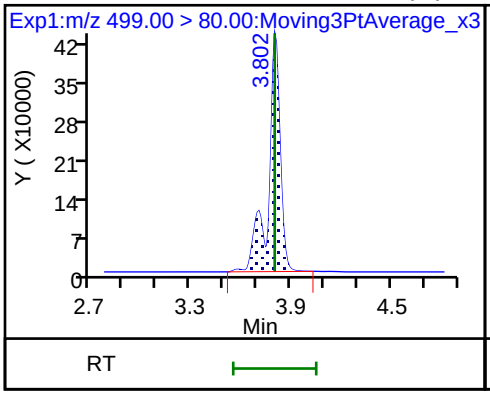
15 Perfluorooctanoic acid (M)



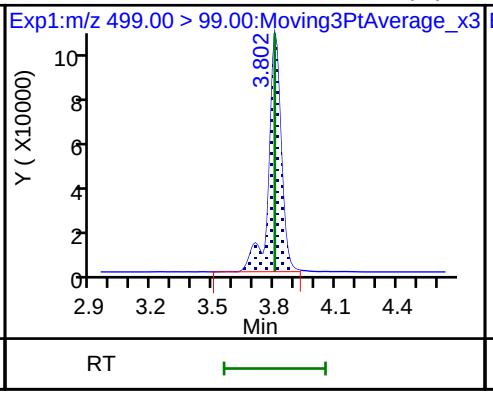
D 18 13C4 PFOS



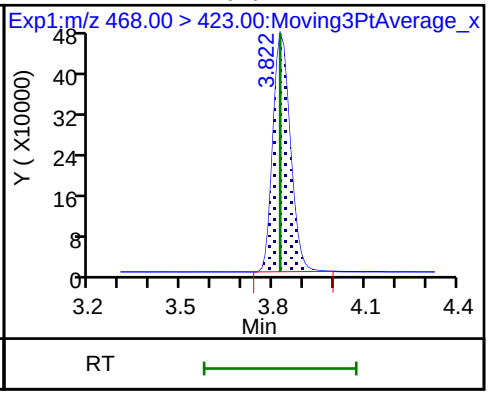
17 Perfluorooctanesulfonic acid (M)



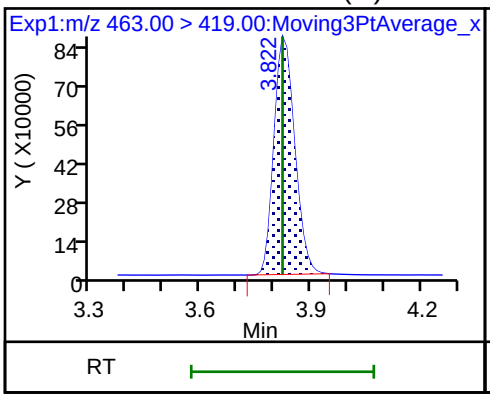
17 Perfluorooctanesulfonic acid (M)



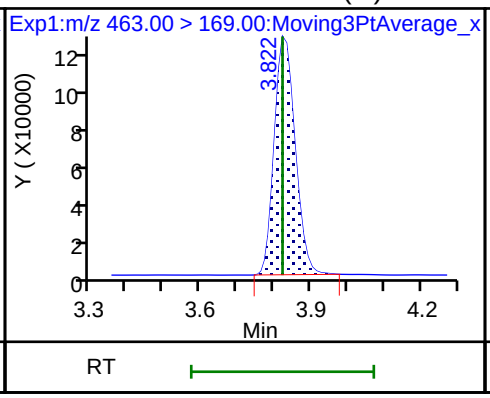
D 19 13C5 PFNA (M)



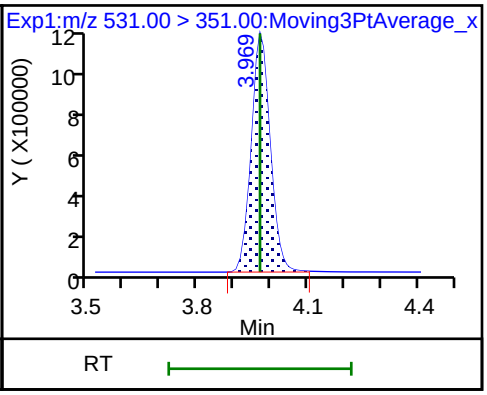
20 Perfluorononanoic acid (M)



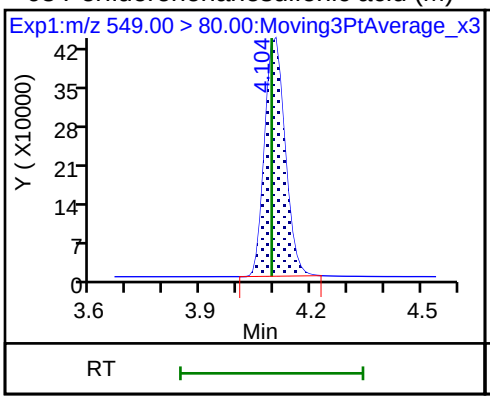
20 Perfluorononanoic acid (M)



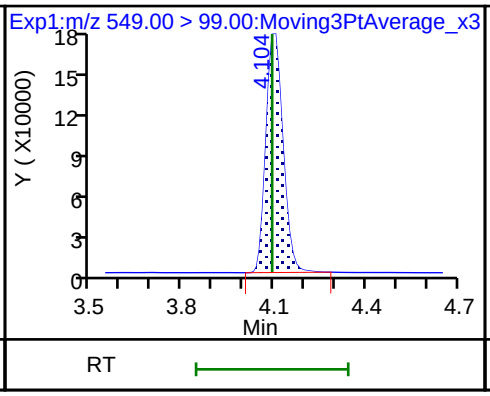
69 9-Chlorohexadecafluoro-3-oxanona (M)



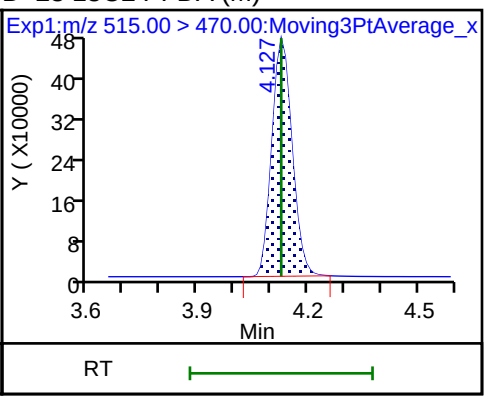
68 Perfluorononanesulfonic acid (M)



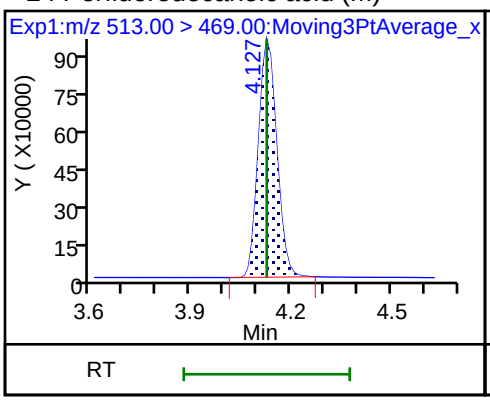
68 Perfluorononanesulfonic acid



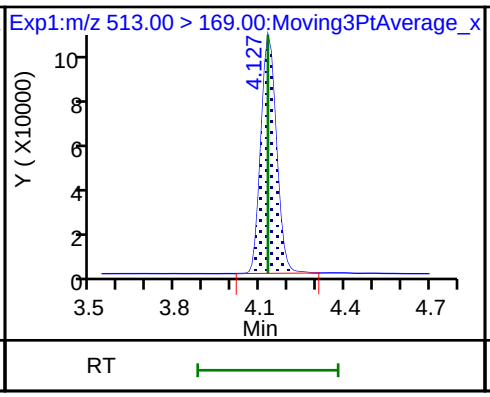
D 23 13C2 PFDA (M)



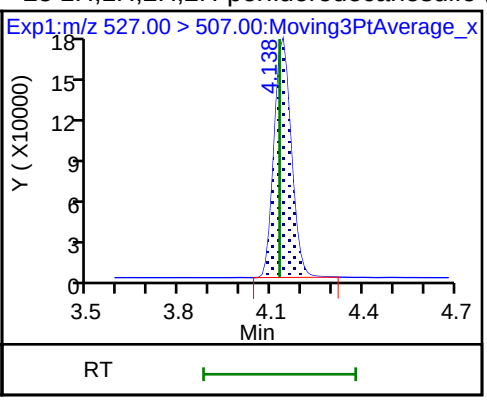
24 Perfluorodecanoic acid (M)



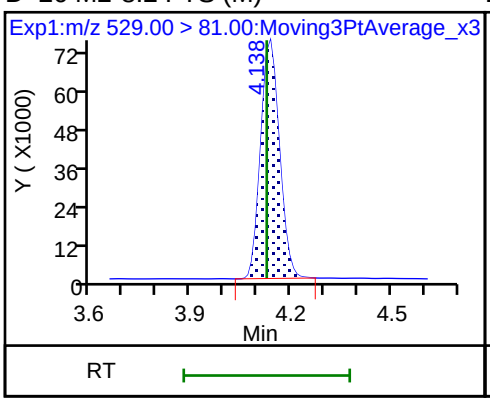
24 Perfluorodecanoic acid



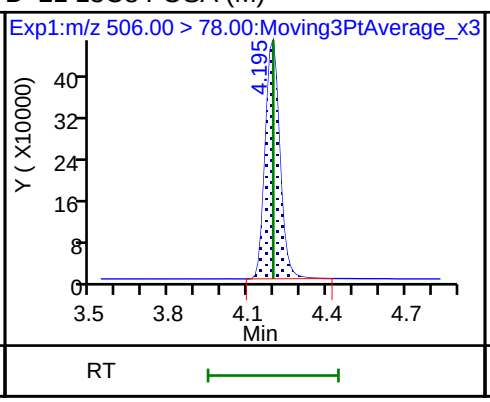
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



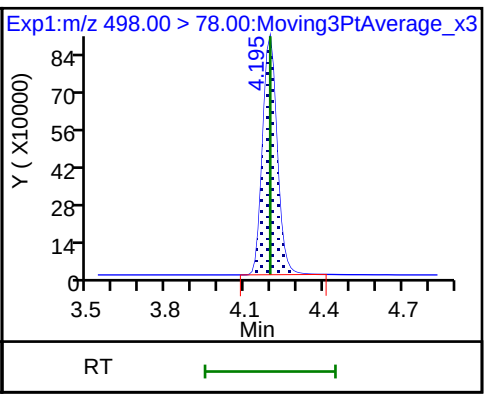
D 26 M2-8:2 FTS (M)



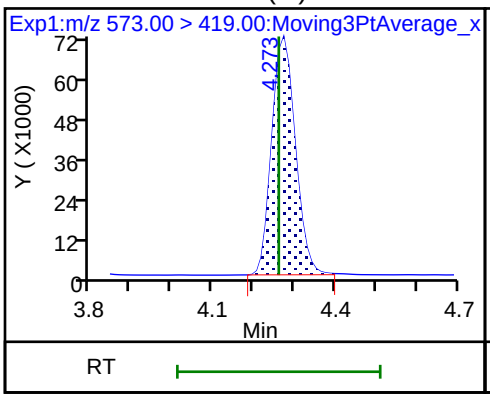
D 21 13C8 FOSA (M)



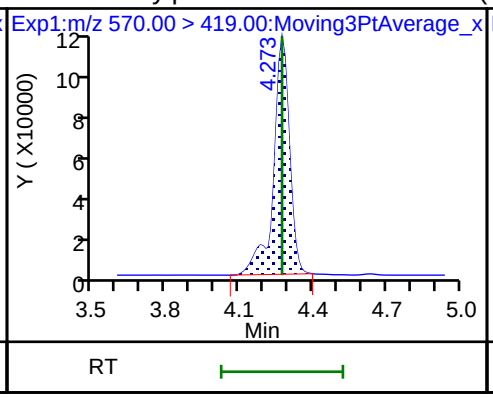
22 Perfluorooctanesulfonamide



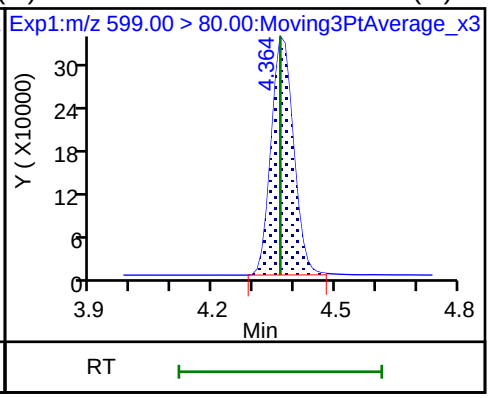
D 27 d3-NMeFOSAA (M)



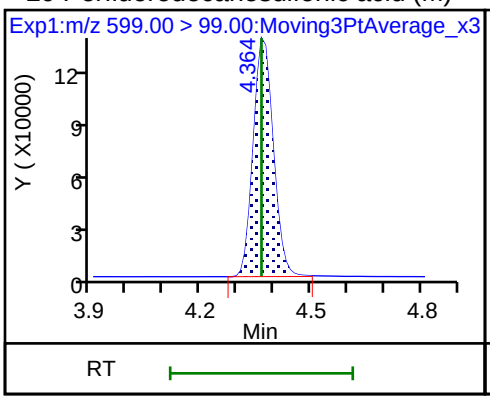
28 N-methylperfluorooctanesulfonami (M)



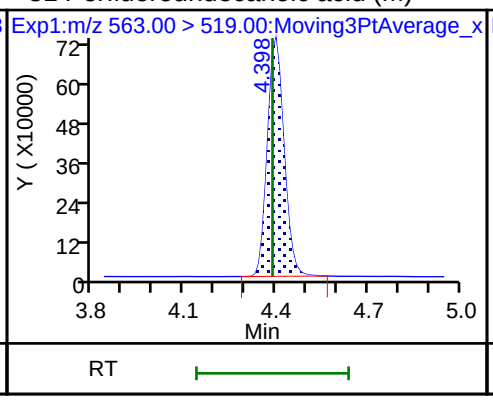
29 Perfluorodecanesulfonic acid (M)



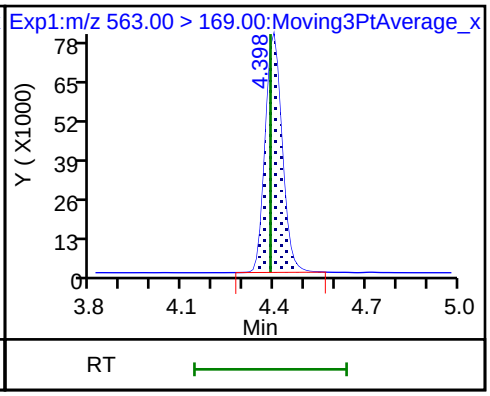
29 Perfluorodecanesulfonic acid (M)



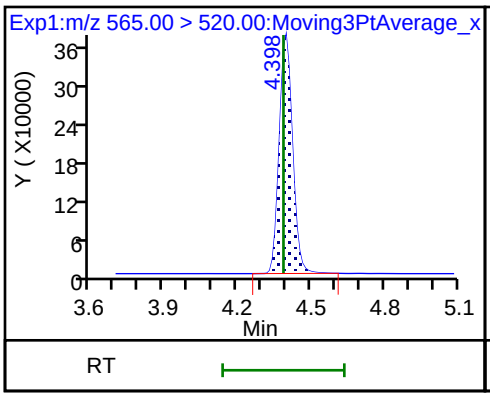
31 Perfluoroundecanoic acid (M)



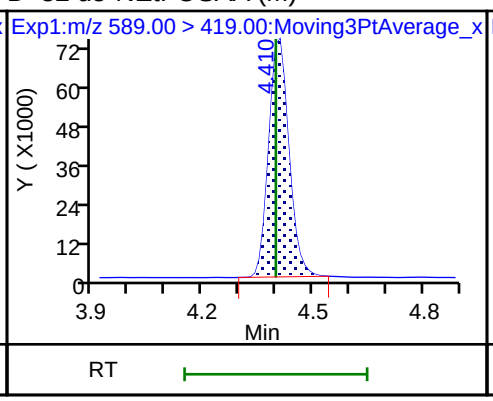
31 Perfluoroundecanoic acid



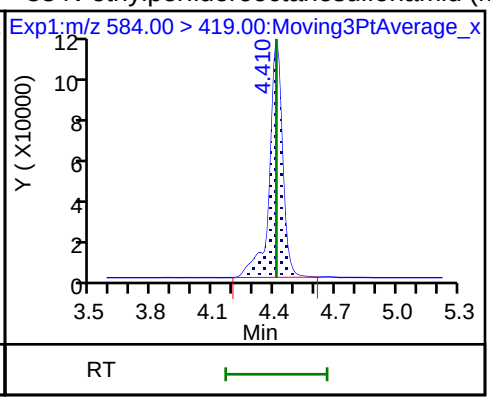
D 30 13C2 PFUnA



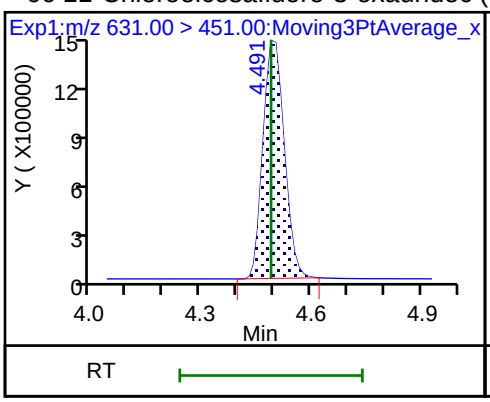
D 32 d5-NEtFOSAA (M)



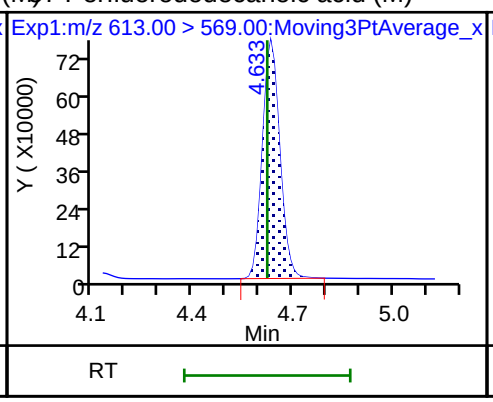
33 N-ethylperfluorooctanesulfonamid (M)



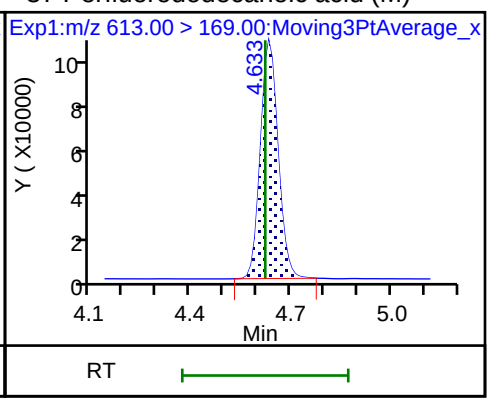
66 11-Chloroeicosafluoro-3-oxaundec (M)



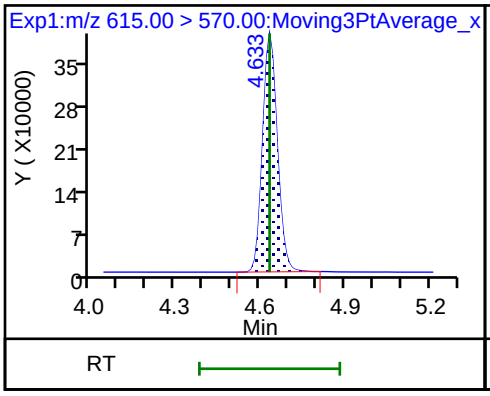
37 Perfluorododecanoic acid (M)



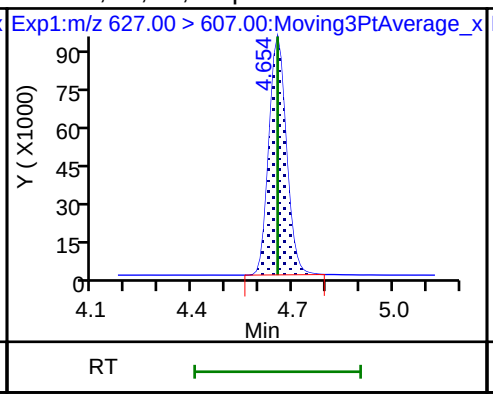
37 Perfluorododecanoic acid (M)



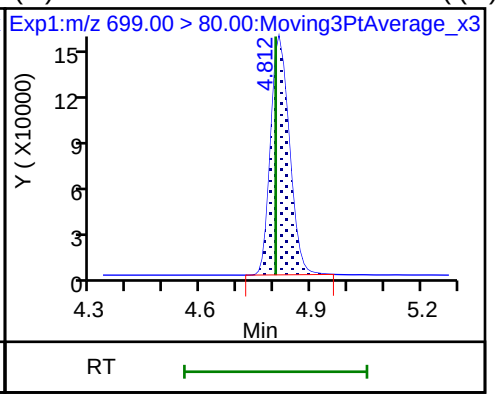
D 36 13C2 PFDoA



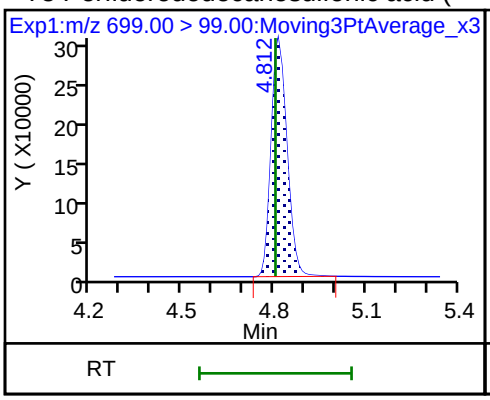
74 1H,1H,2H,2H-perfluorododecanesul (M)



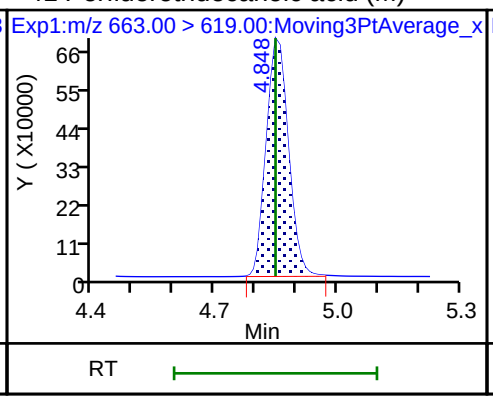
75 Perfluorododecanesulfonic acid ((M)



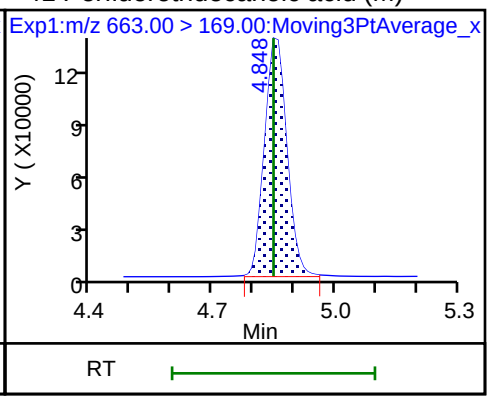
75 Perfluorododecanesulfonic acid (



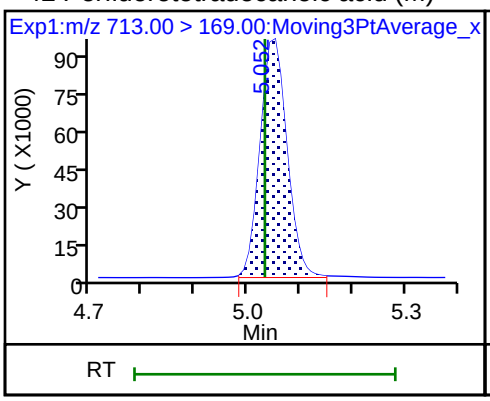
41 Perfluorotridecanoic acid (M)



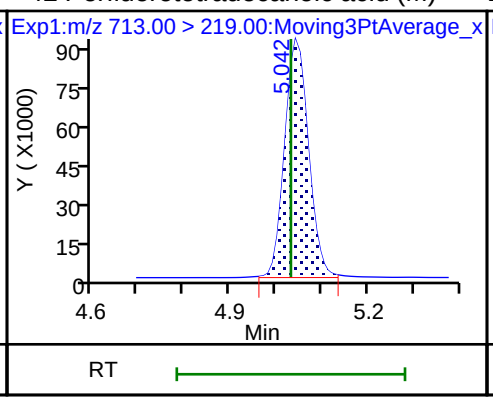
41 Perfluorotridecanoic acid (M)



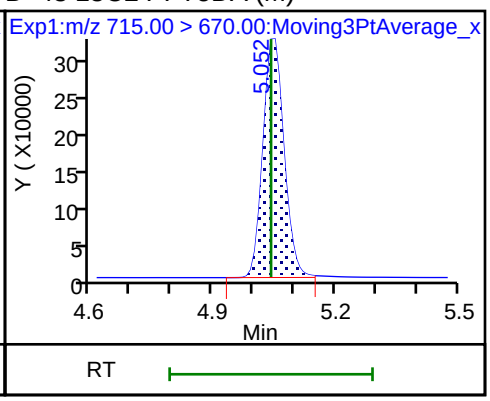
42 Perfluorotetradecanoic acid (M)



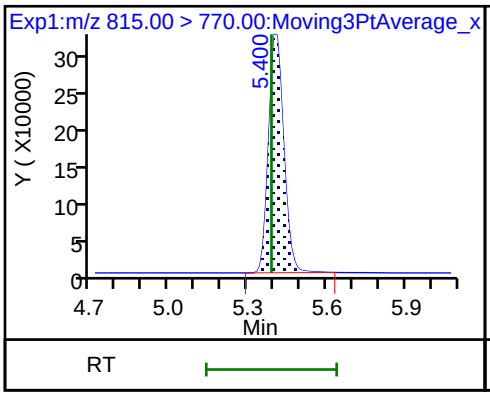
42 Perfluorotetradecanoic acid (M)



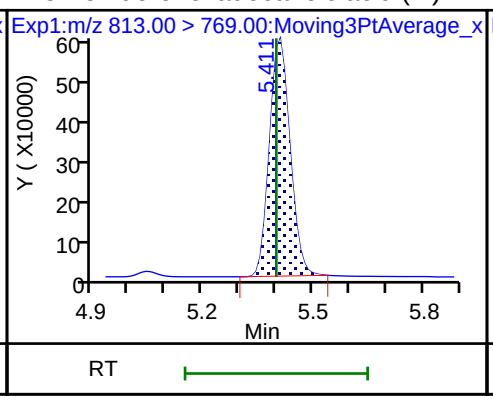
D 43 13C2 PFTeDA (M)



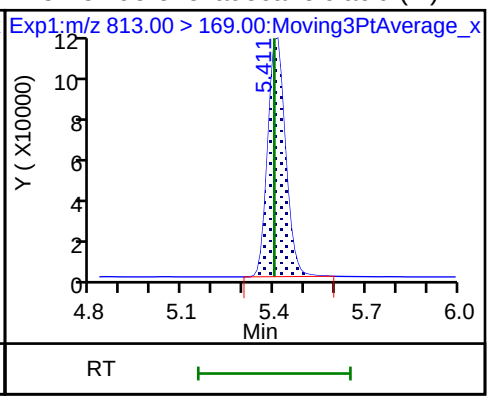
D 44 13C2 PFHxDA



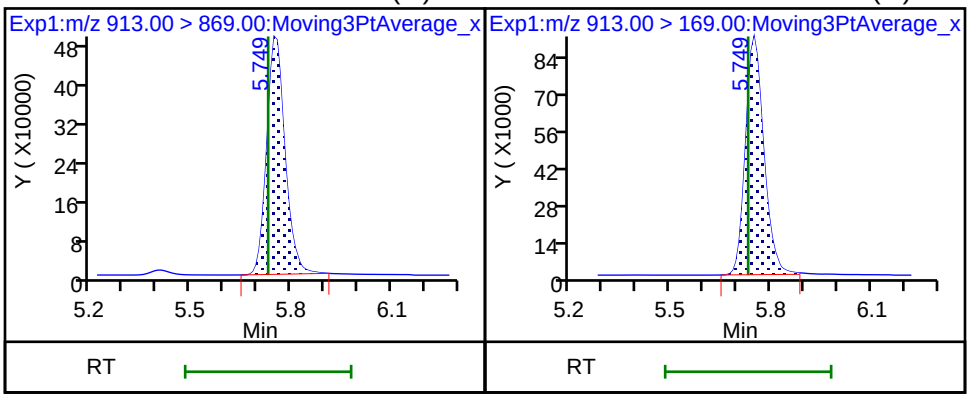
45 Perfluorohexadecanoic acid (M)



45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M) 46 Perfluorooctadecanoic acid (M)



Manual Integration/User Assign Peak Report

Eurofins Burlington

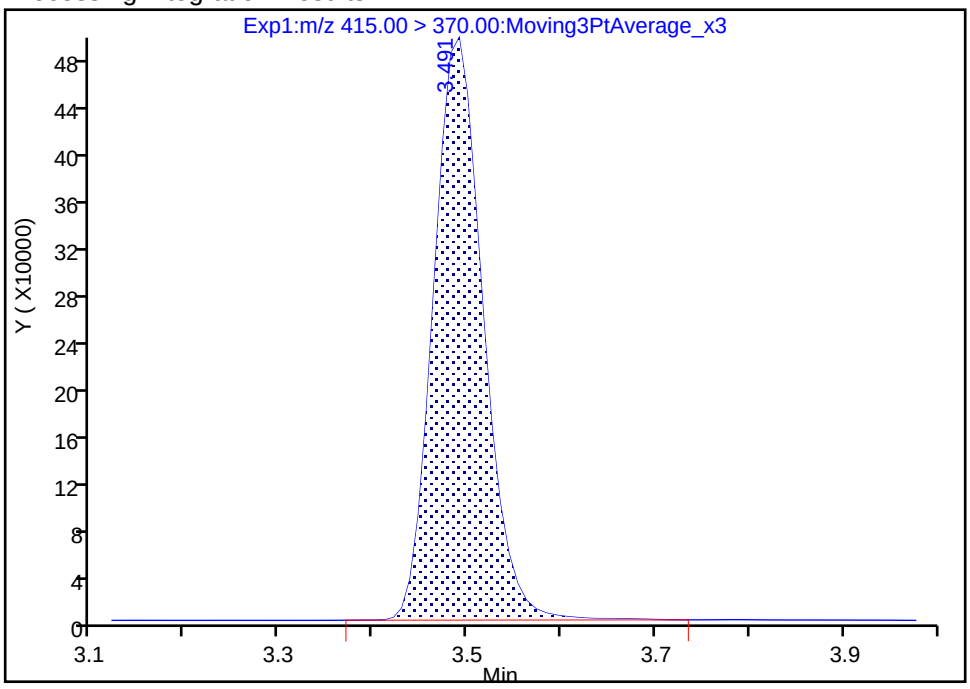
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

* 62 13C2 PFOA, CAS: STL00623

Signal: 1

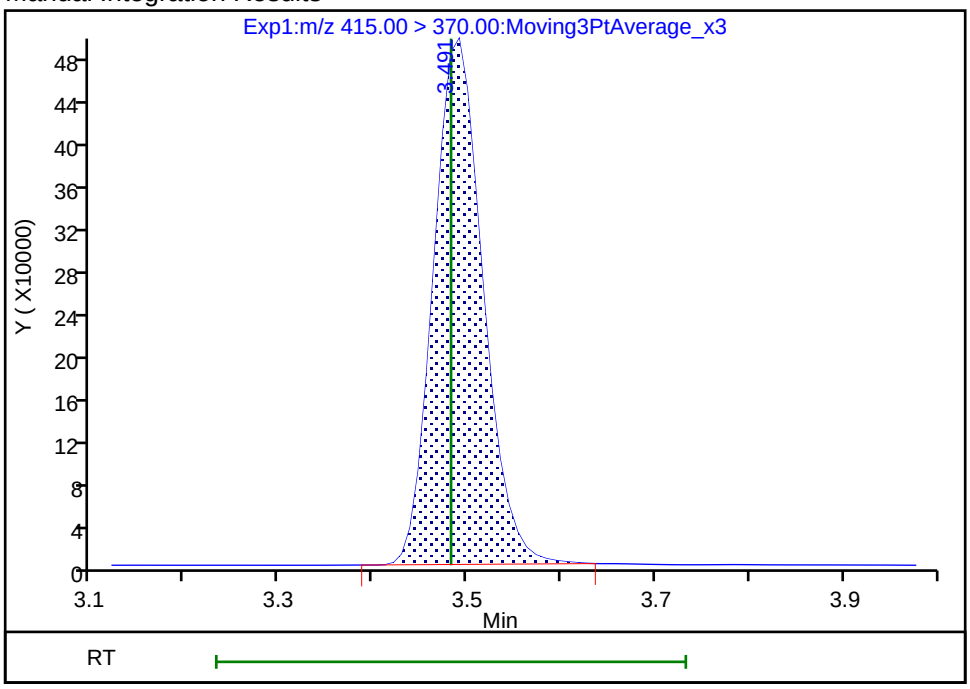
Processing Integration Results

RT: 3.49
Area: 1809559
Amount: 1.250000
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 1796643
Amount: 1.250000
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:24:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

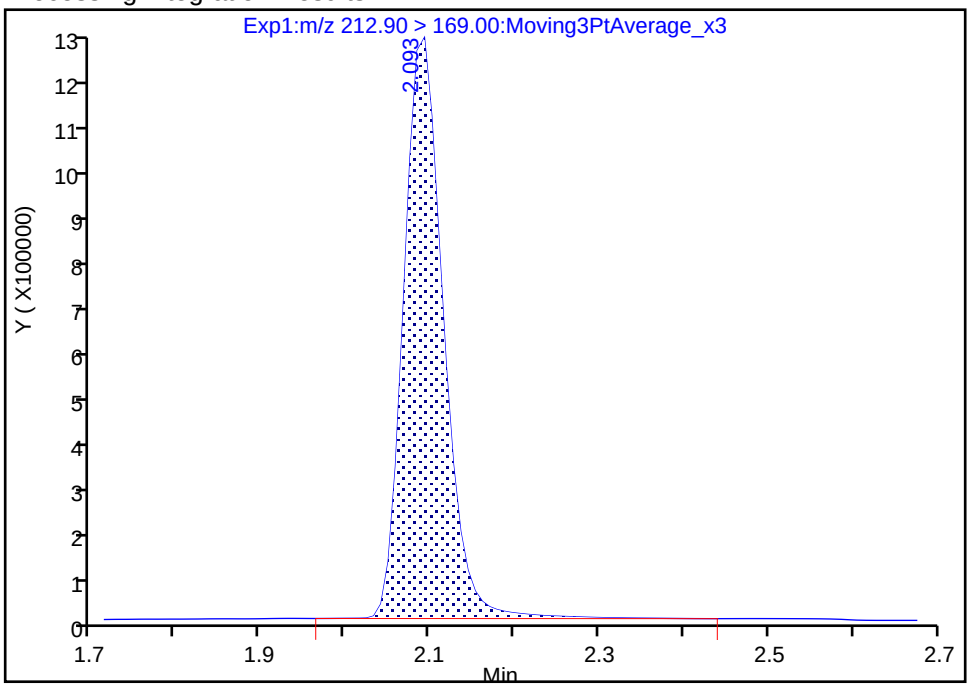
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

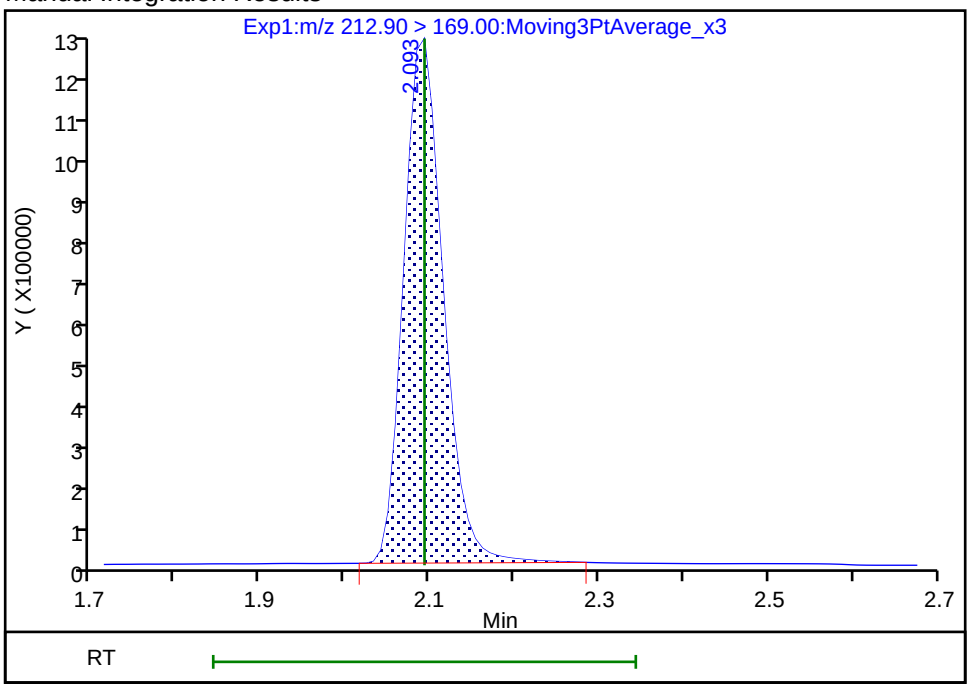
Processing Integration Results

RT: 2.09
Area: 3900615
Amount: 2.417538
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 3863812
Amount: 2.394728
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:22:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

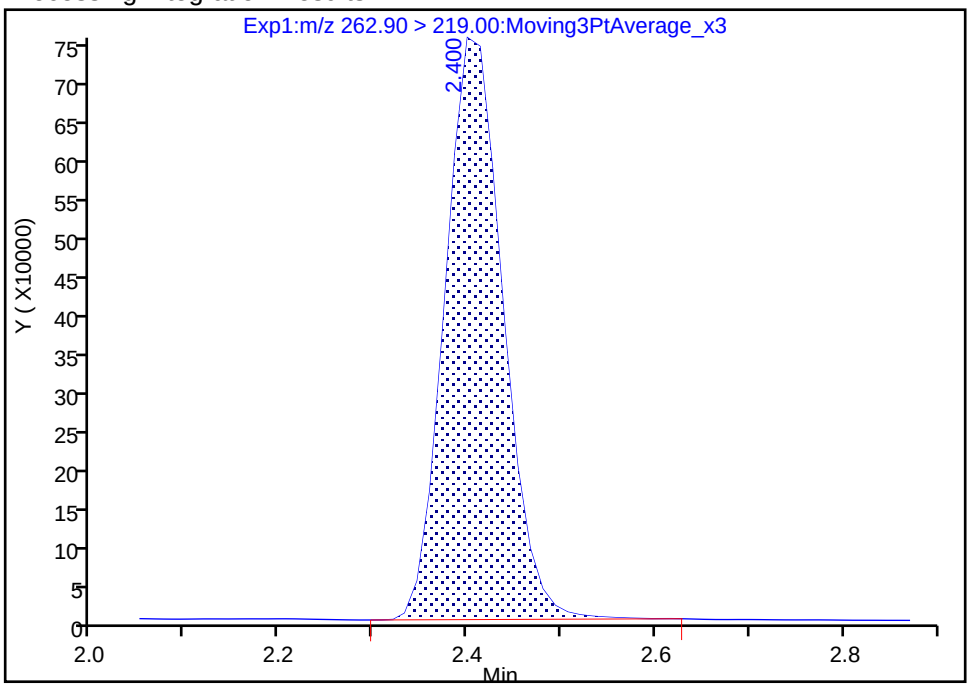
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

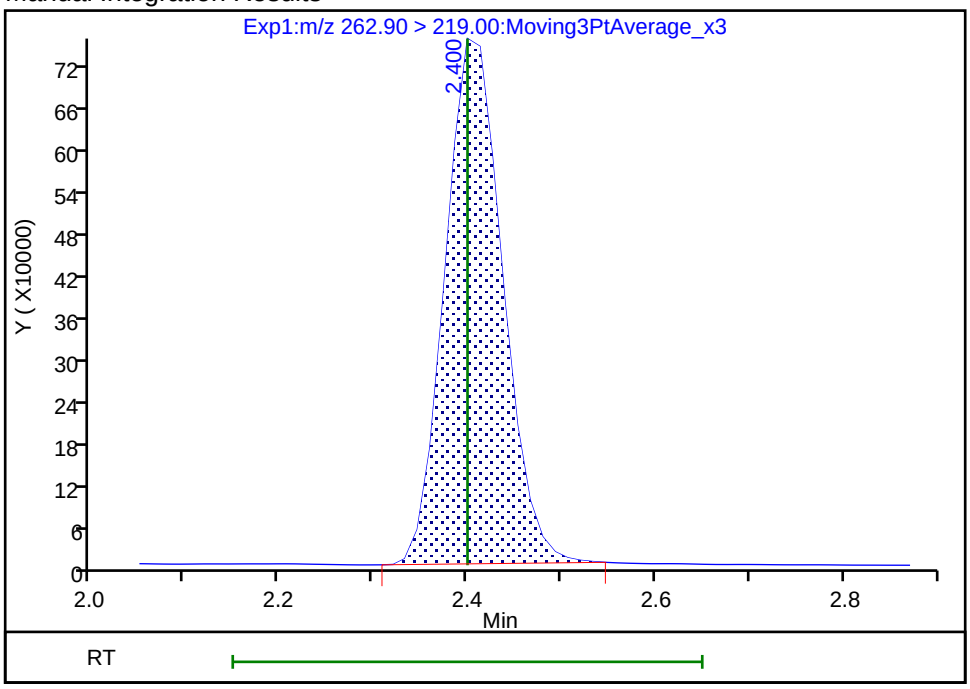
Processing Integration Results

RT: 2.40
Area: 3190819
Amount: 2.492902
Amount Units: ng/ml



Manual Integration Results

RT: 2.40
Area: 3169352
Amount: 2.476130
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:22:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

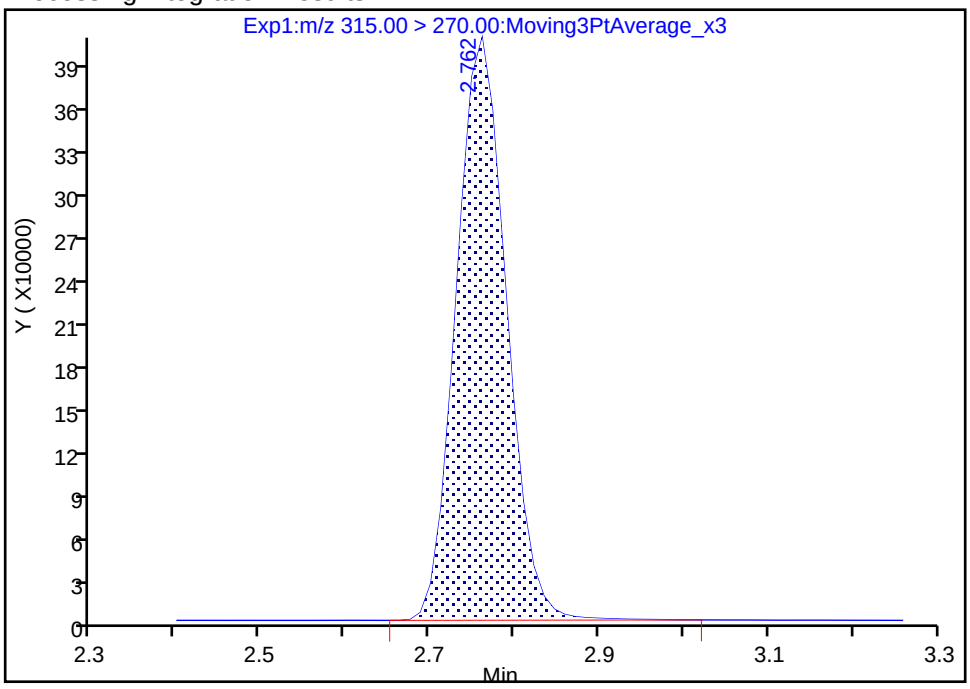
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

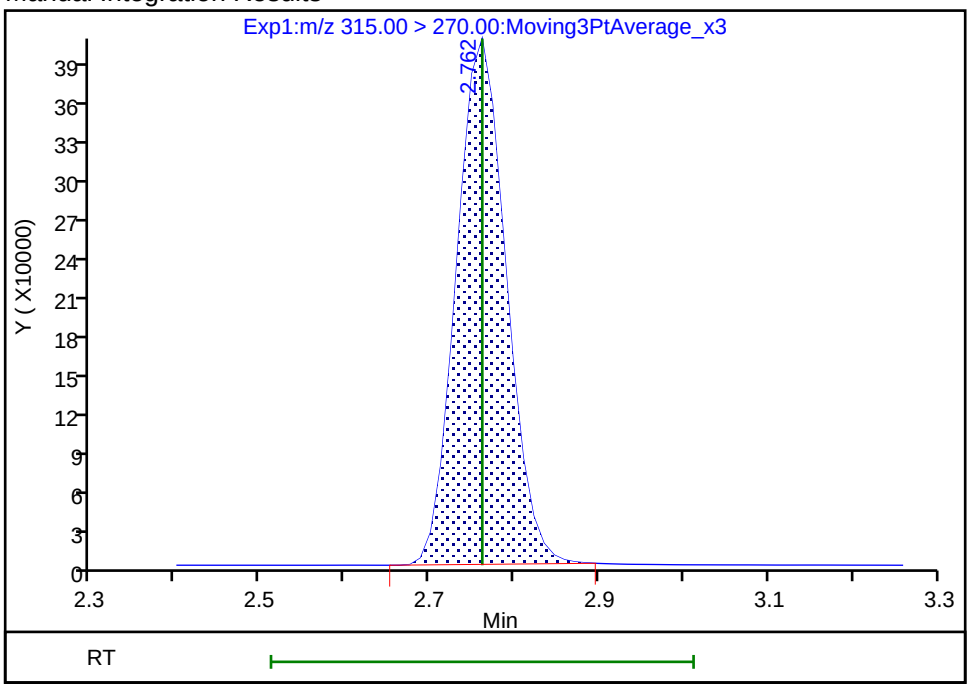
Processing Integration Results

RT: 2.76
Area: 1665329
Amount: 1.386346
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 1652709
Amount: 1.385731
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:23:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

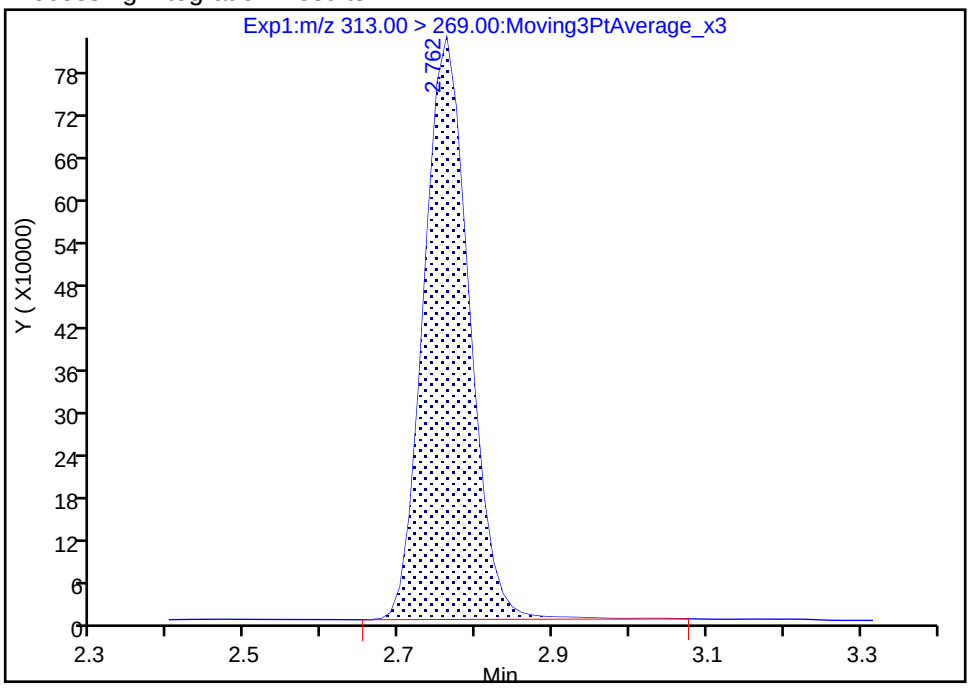
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

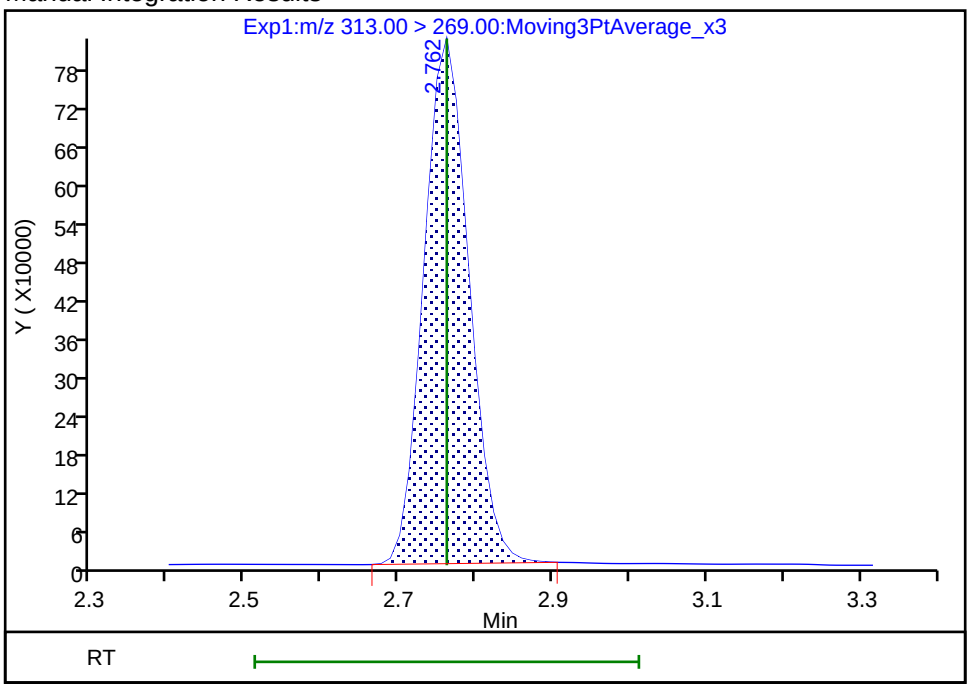
Processing Integration Results

RT: 2.76
Area: 3349709
Amount: 2.329449
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 3316727
Amount: 2.324126
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:31:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

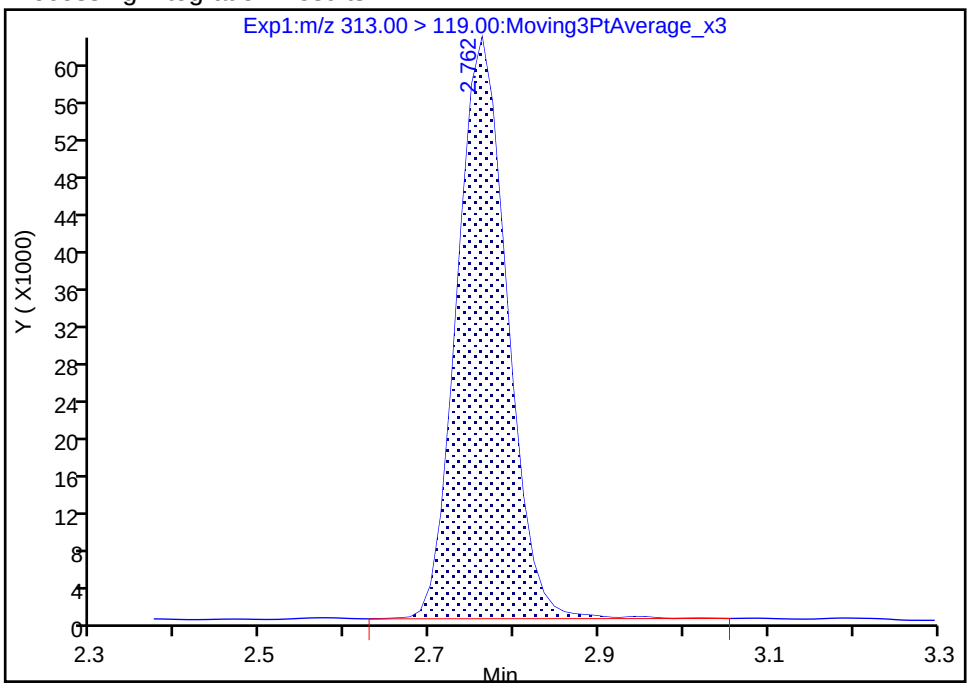
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

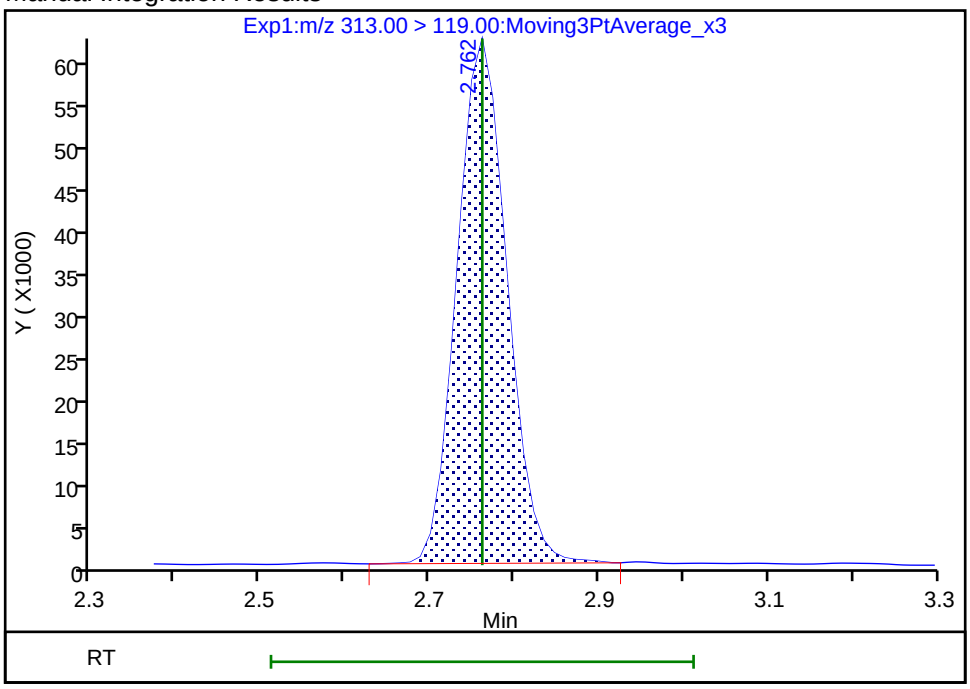
Processing Integration Results

RT: 2.76
Area: 254673
Amount: 2.329449
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 253226
Amount: 2.324126
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:31:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

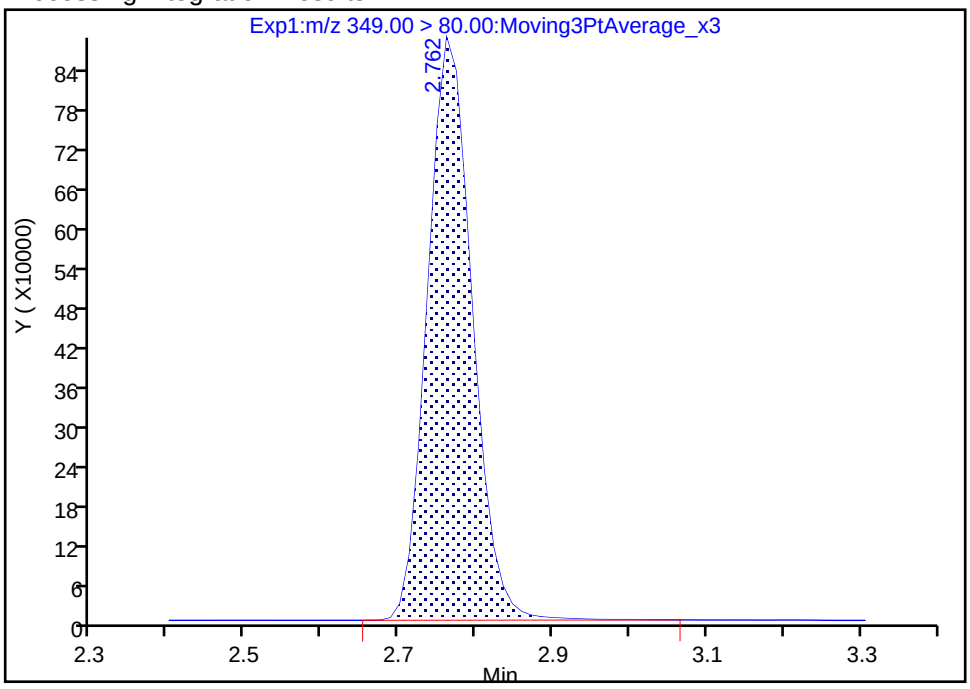
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

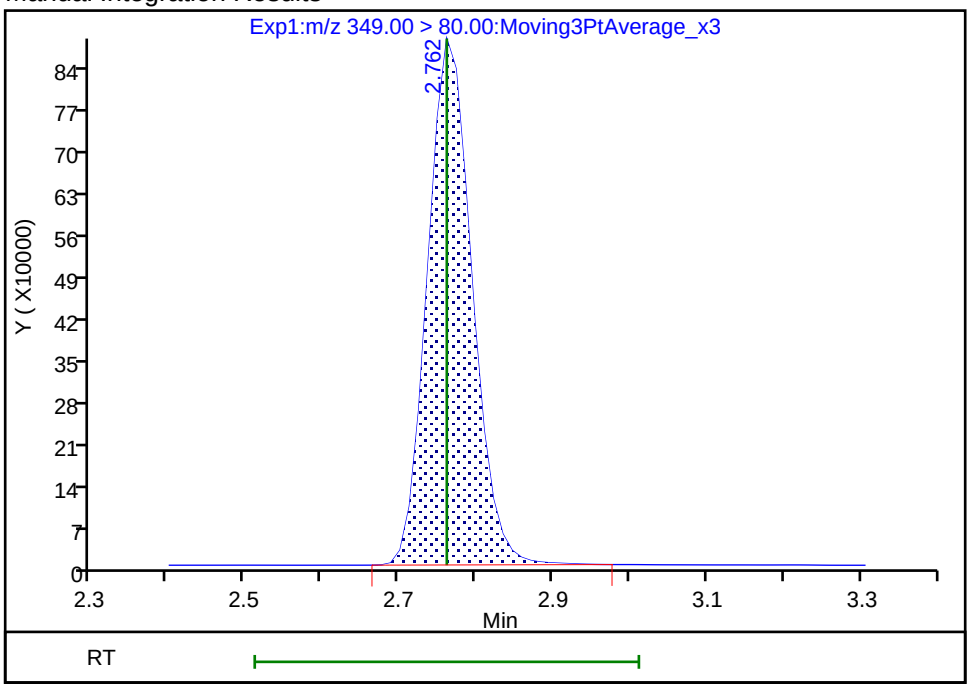
Processing Integration Results

RT: 2.76
Area: 3558304
Amount: 2.394743
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 3550983
Amount: 2.412046
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:31:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

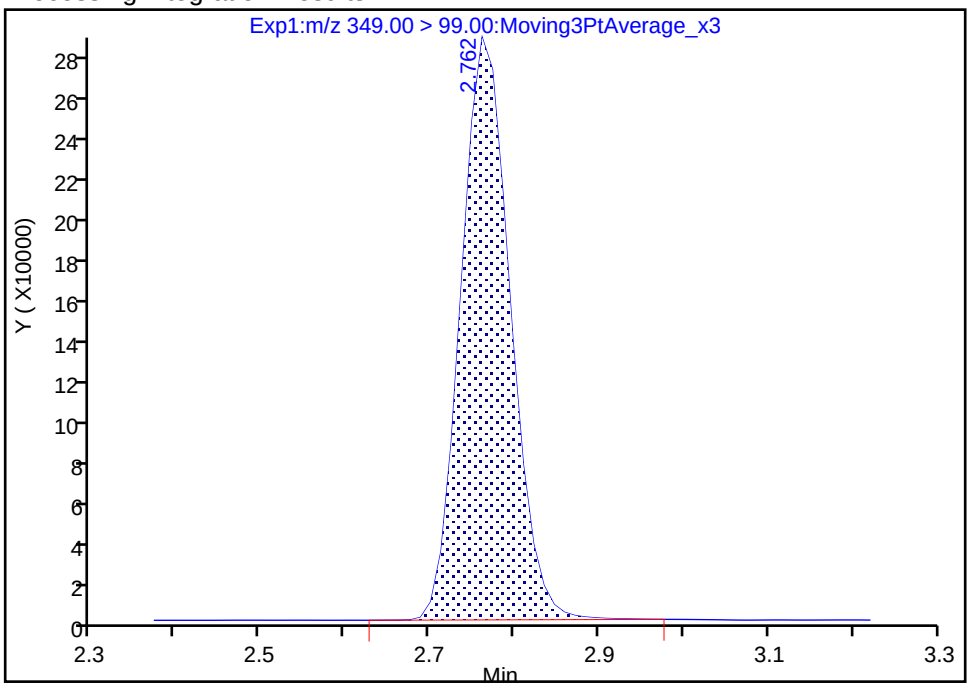
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 2

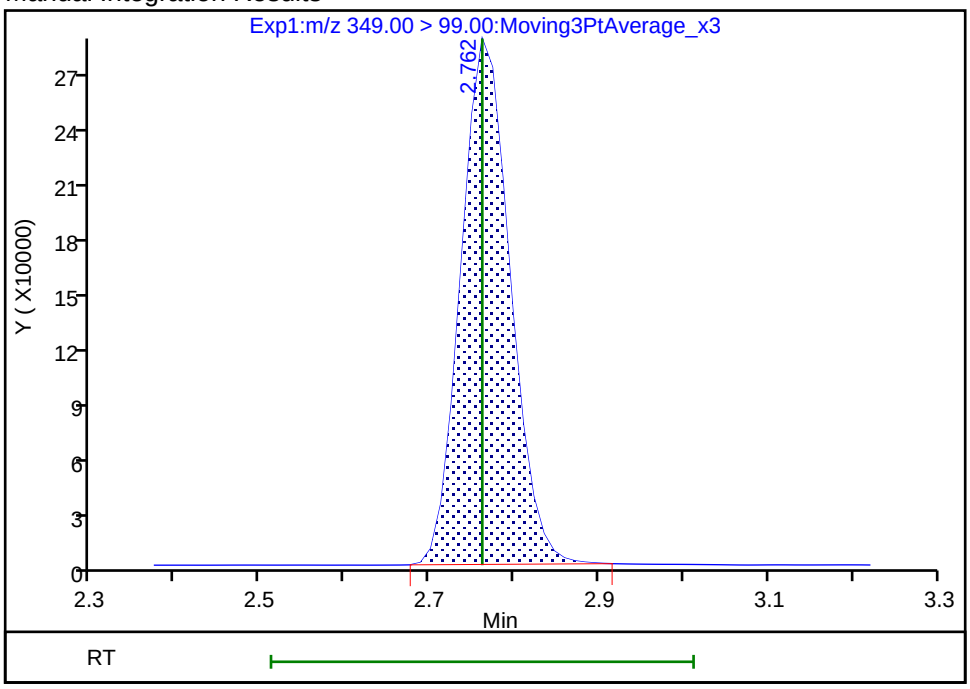
Processing Integration Results

RT: 2.76
Area: 1159756
Amount: 2.394743
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 1155083
Amount: 2.412046
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:31:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

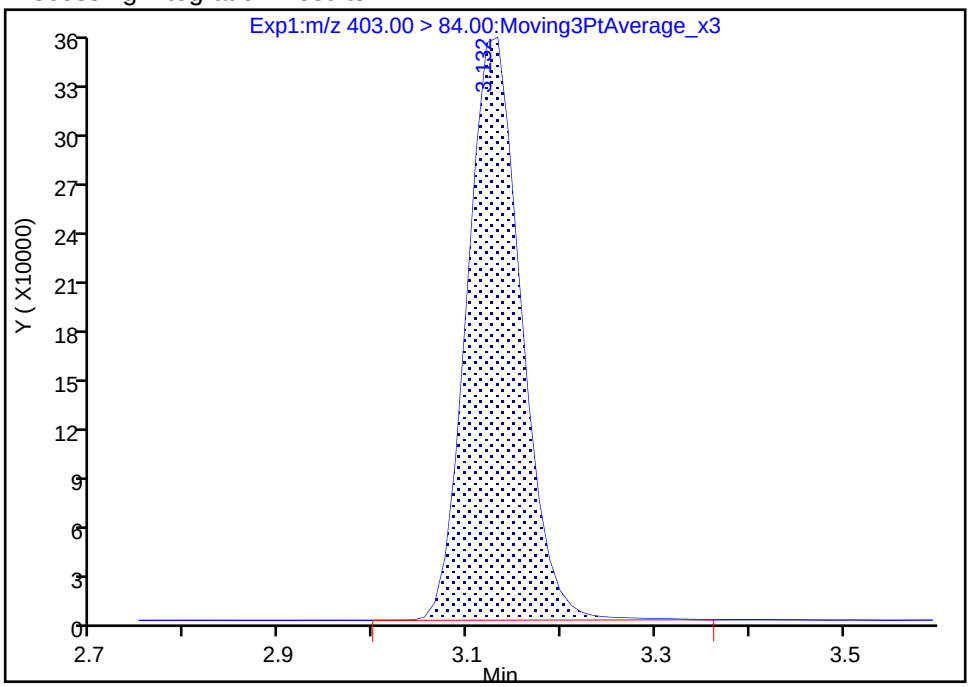
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

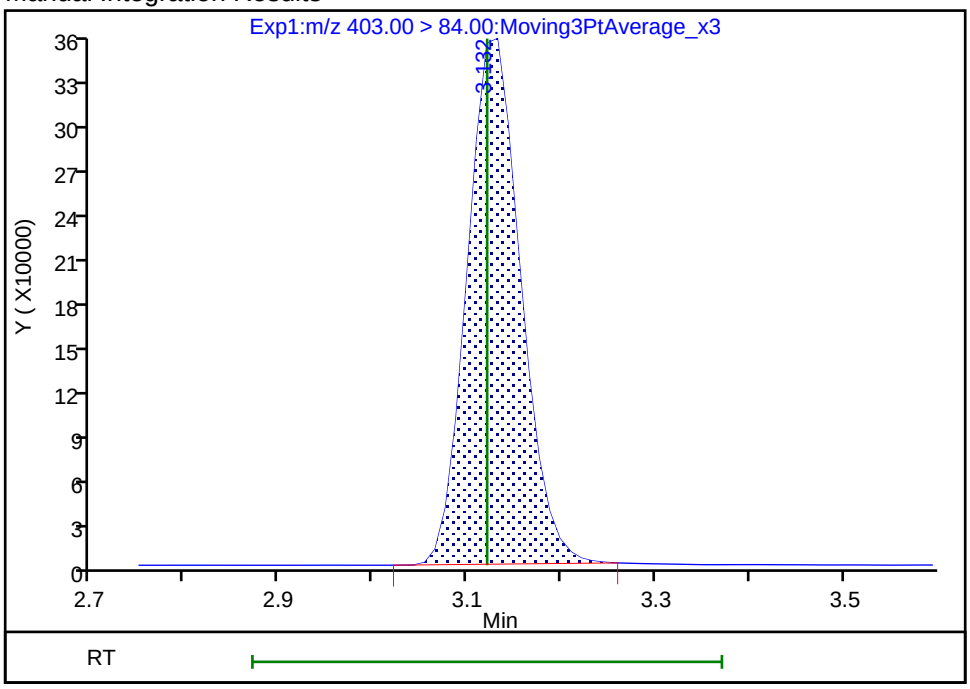
Processing Integration Results

RT: 3.13
Area: 1422714
Amount: 1.067877
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 1409602
Amount: 1.065641
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:23:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

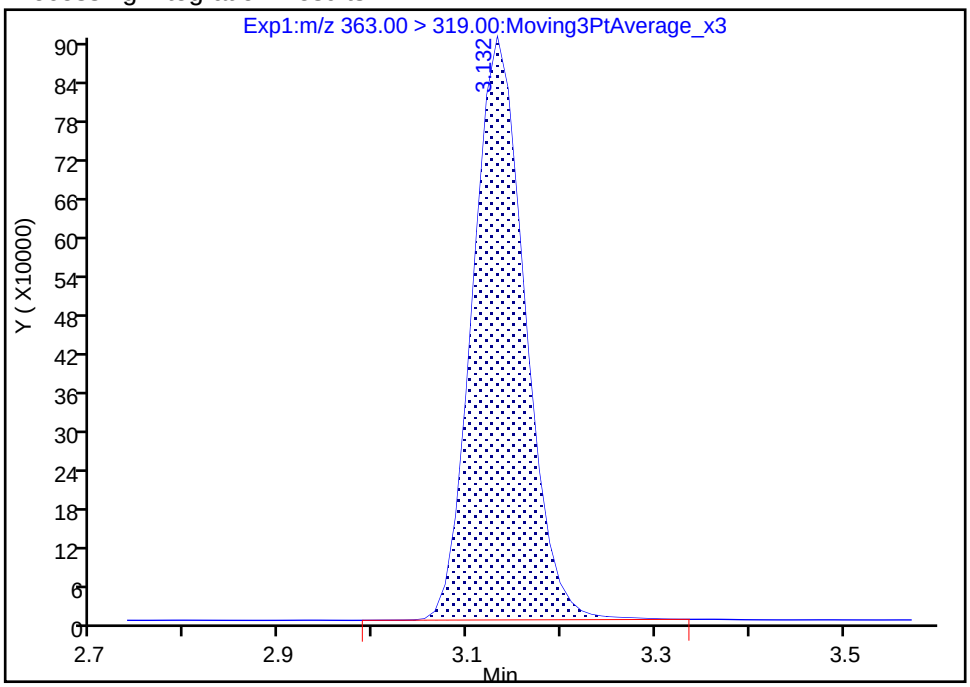
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

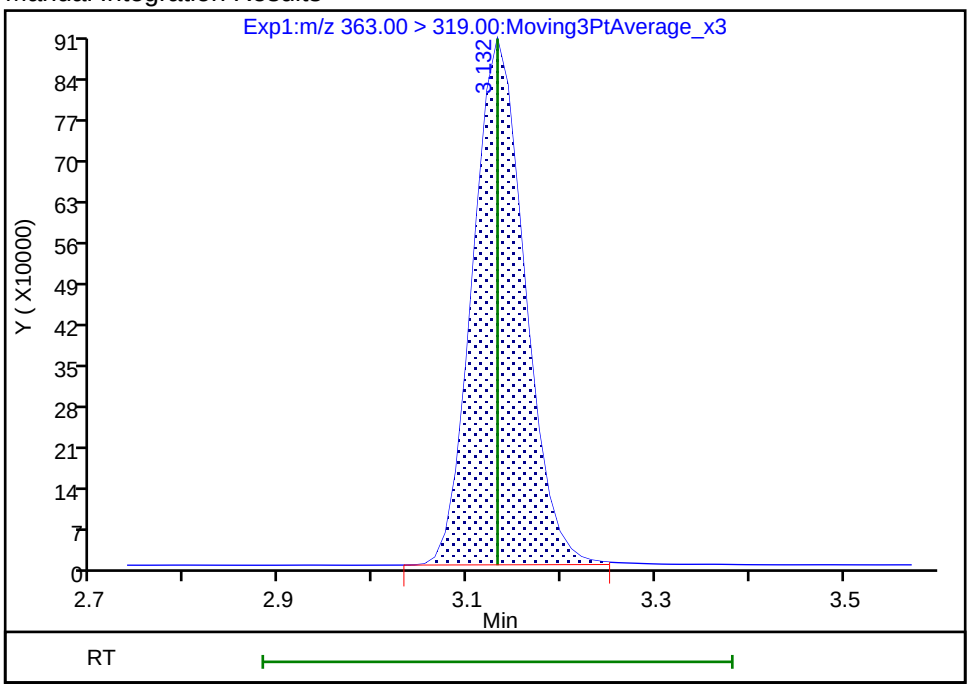
Processing Integration Results

RT: 3.13
Area: 3466153
Amount: 2.544264
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 3458391
Amount: 2.538566
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:32:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

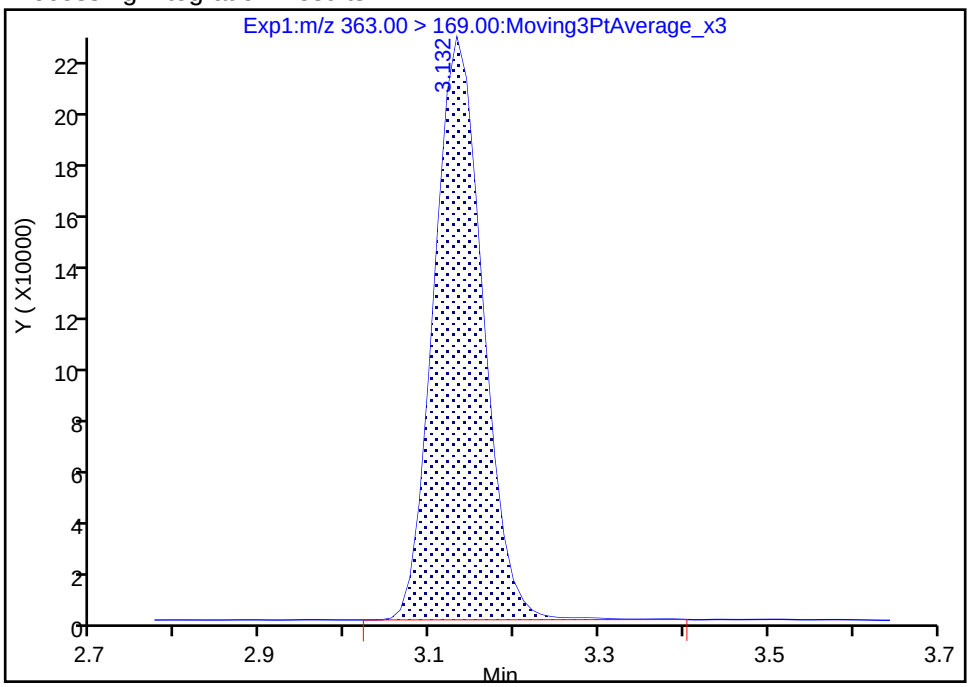
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

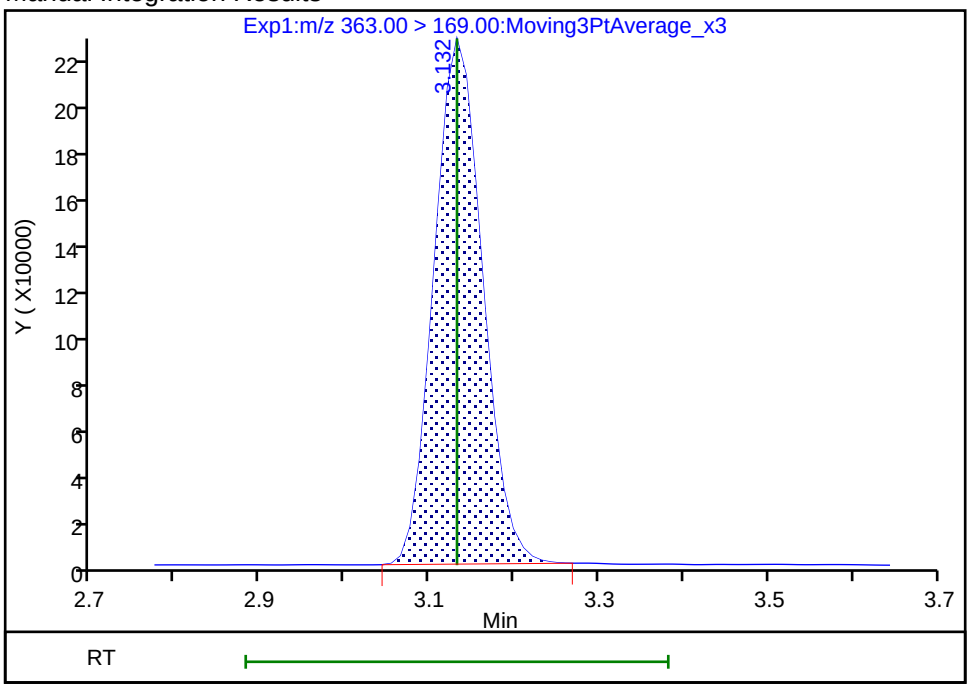
Processing Integration Results

RT: 3.13
Area: 896642
Amount: 2.544264
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 890037
Amount: 2.538566
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:32:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

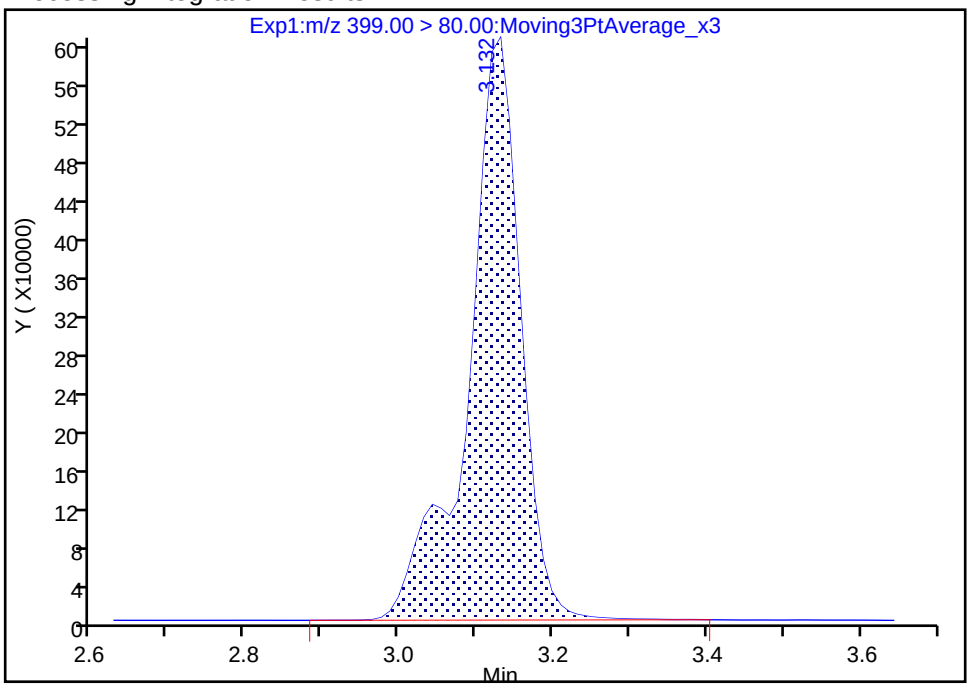
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

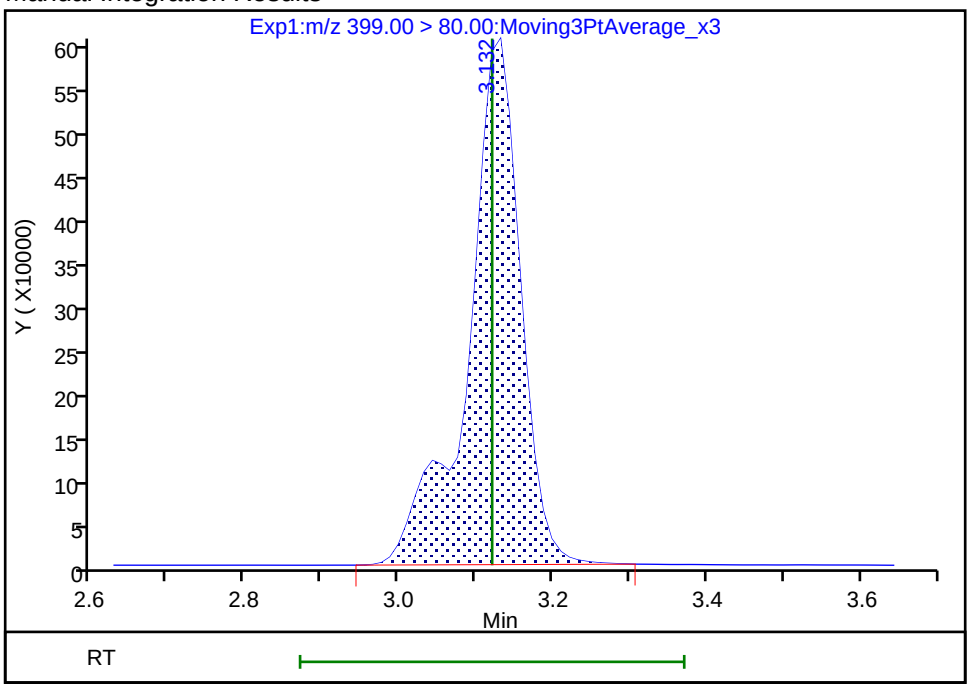
Processing Integration Results

RT: 3.13
Area: 2898176
Amount: 2.179392
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 2887827
Amount: 2.191810
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:32:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

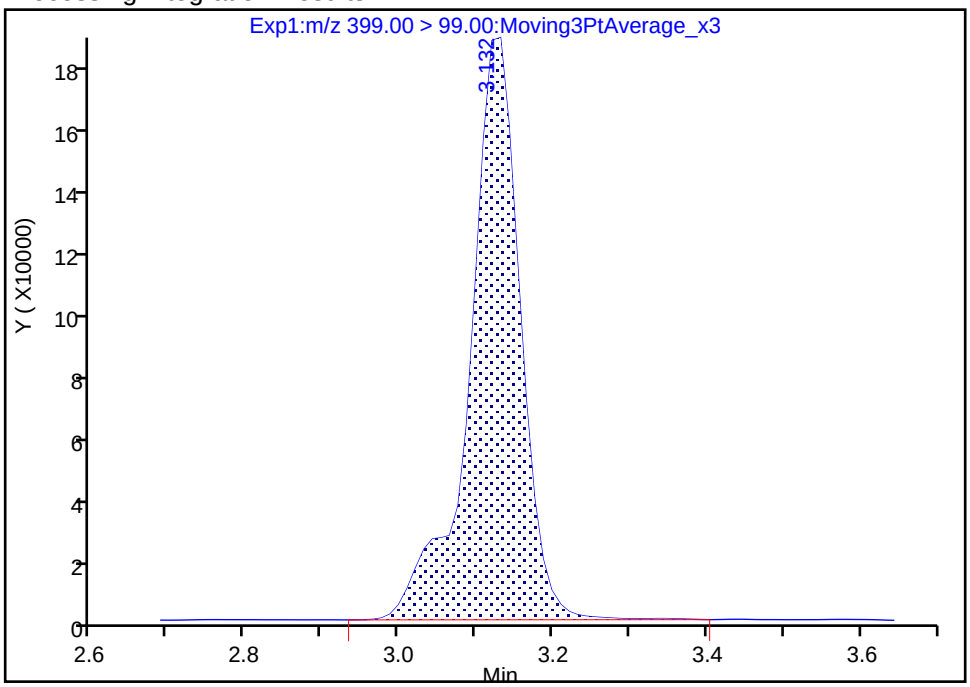
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

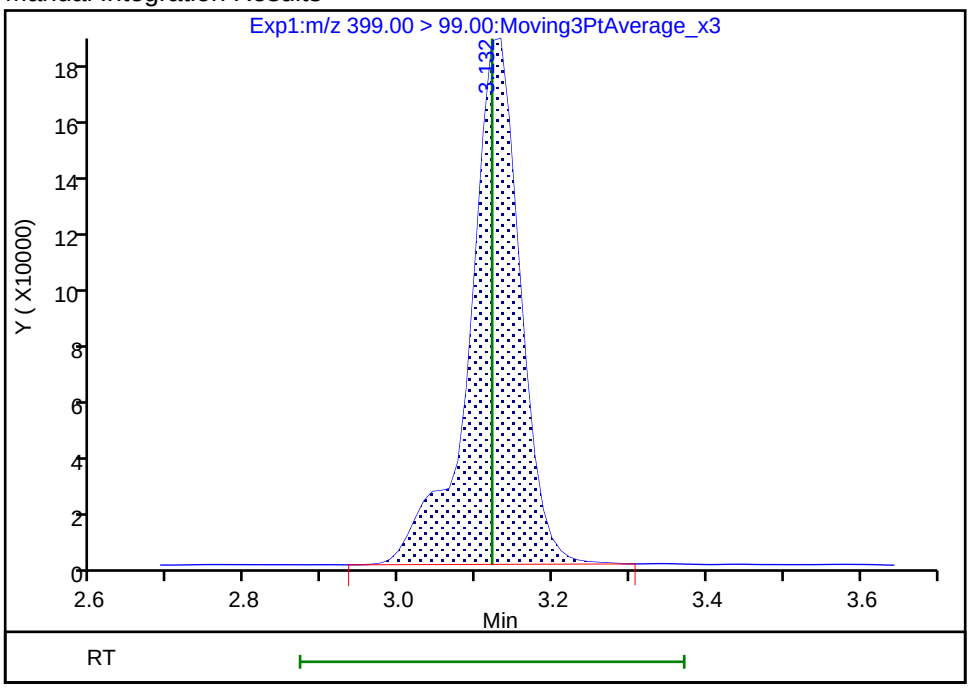
Processing Integration Results

RT: 3.13
Area: 832151
Amount: 2.179392
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 828068
Amount: 2.191810
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:32:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

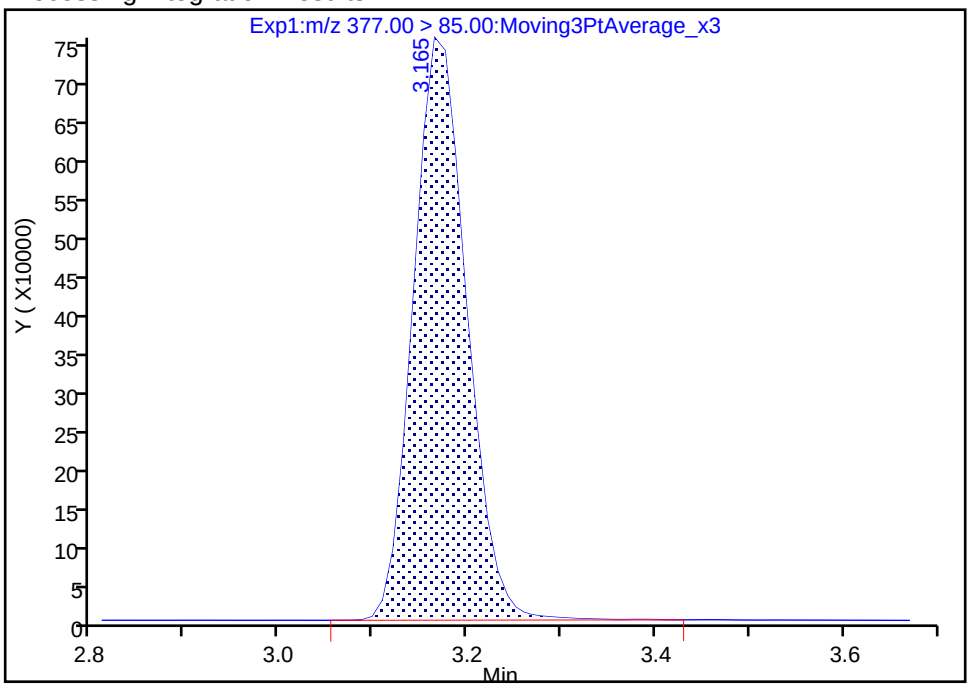
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

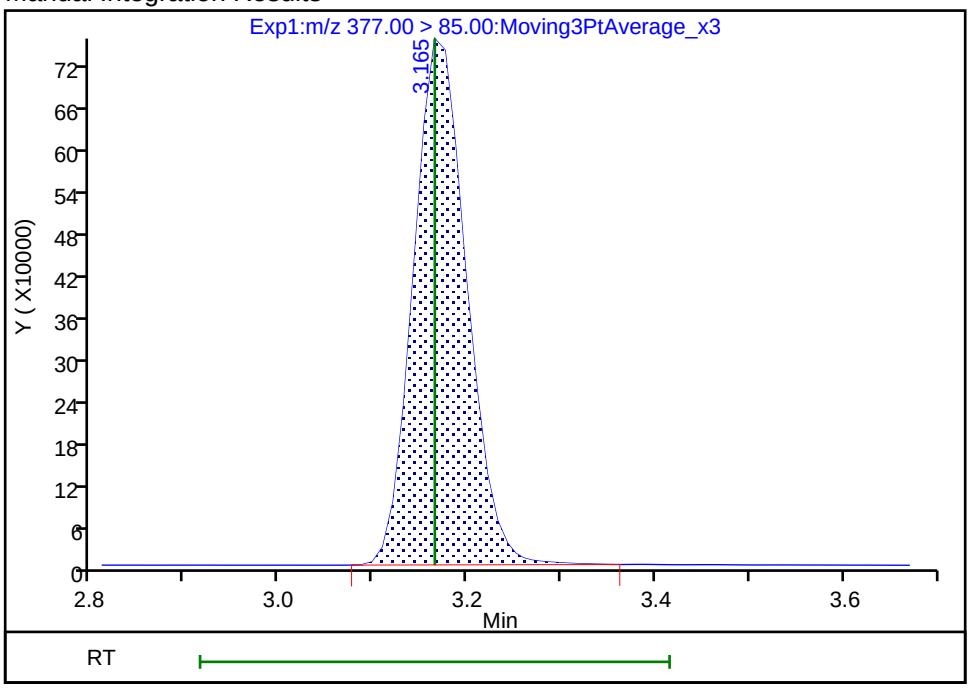
Processing Integration Results

RT: 3.16
Area: 2951401
Amount: 2.760129
Amount Units: ng/ml



Manual Integration Results

RT: 3.16
Area: 2945181
Amount: 2.747170
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:32:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

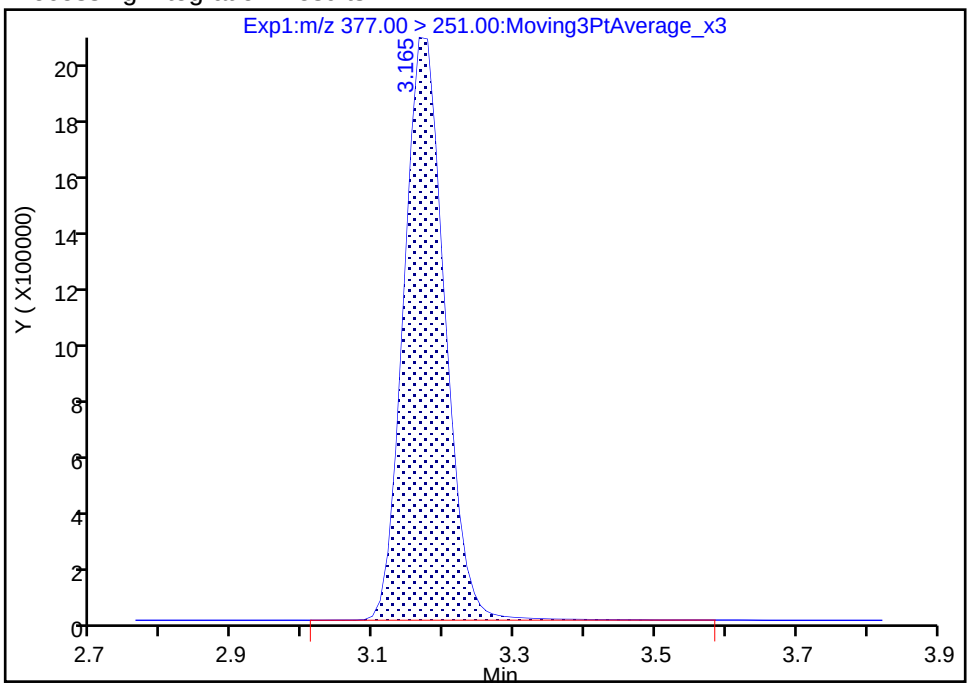
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

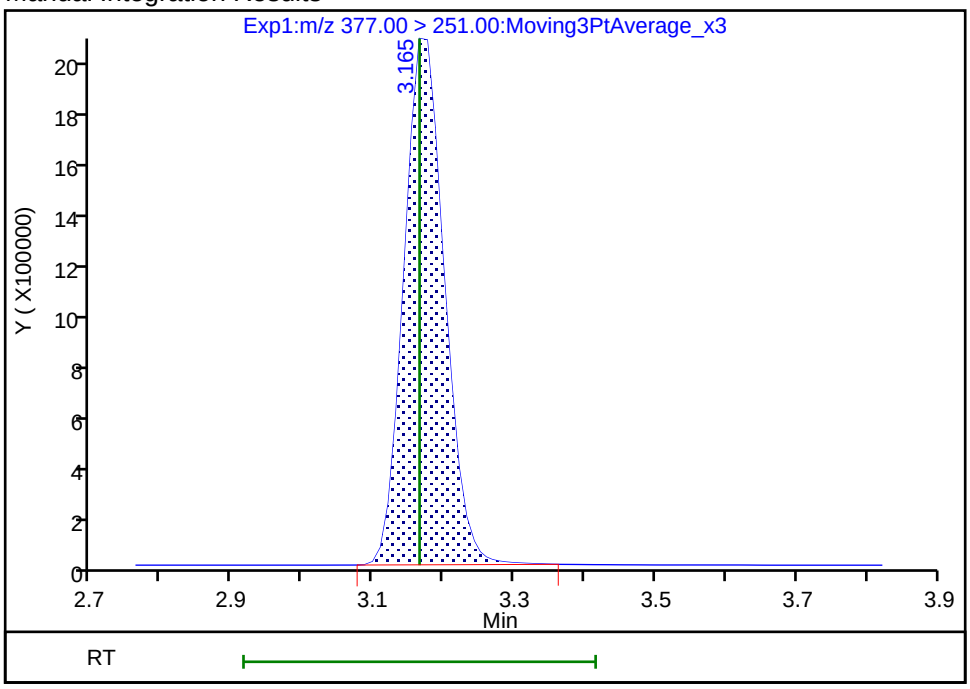
Processing Integration Results

RT: 3.16
Area: 8129365
Amount: 2.760129
Amount Units: ng/ml



Manual Integration Results

RT: 3.16
Area: 8091196
Amount: 2.747170
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:32:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

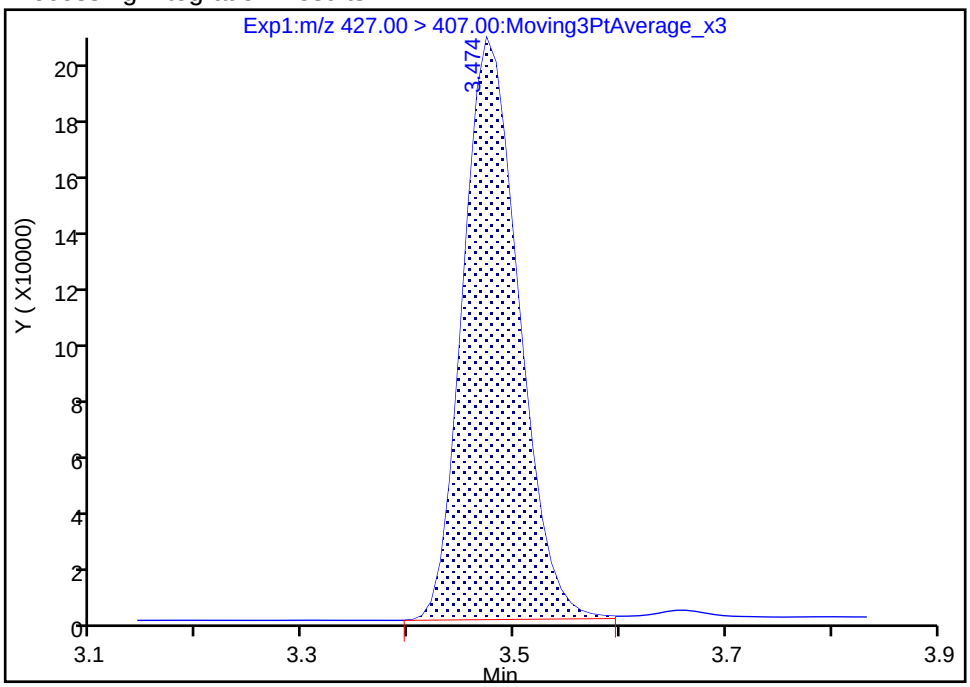
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

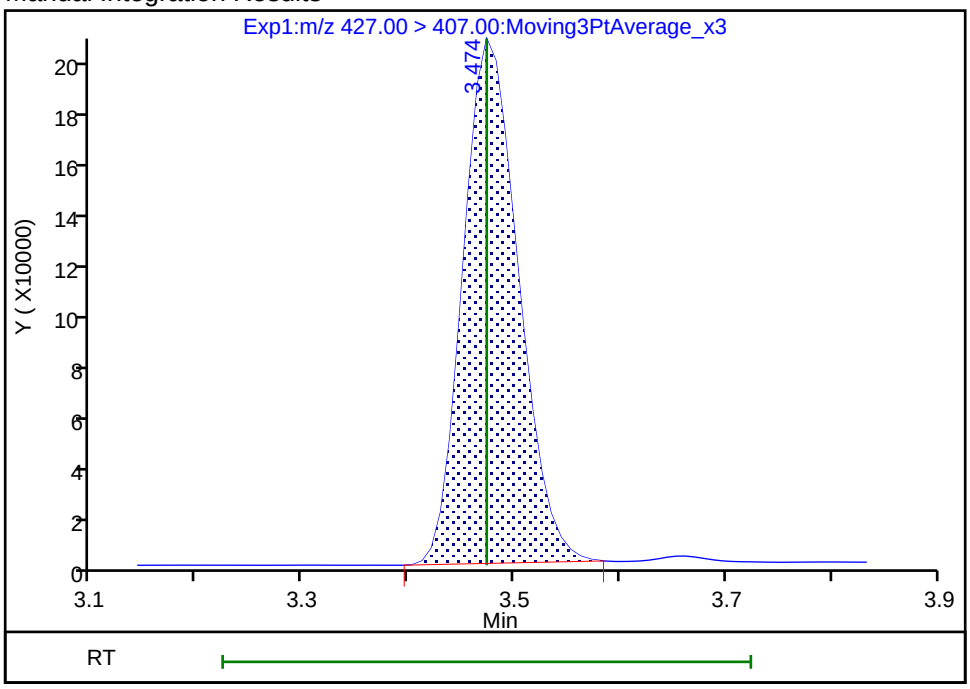
Processing Integration Results

RT: 3.47
Area: 769506
Amount: 2.528771
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 762604
Amount: 2.505843
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:24:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

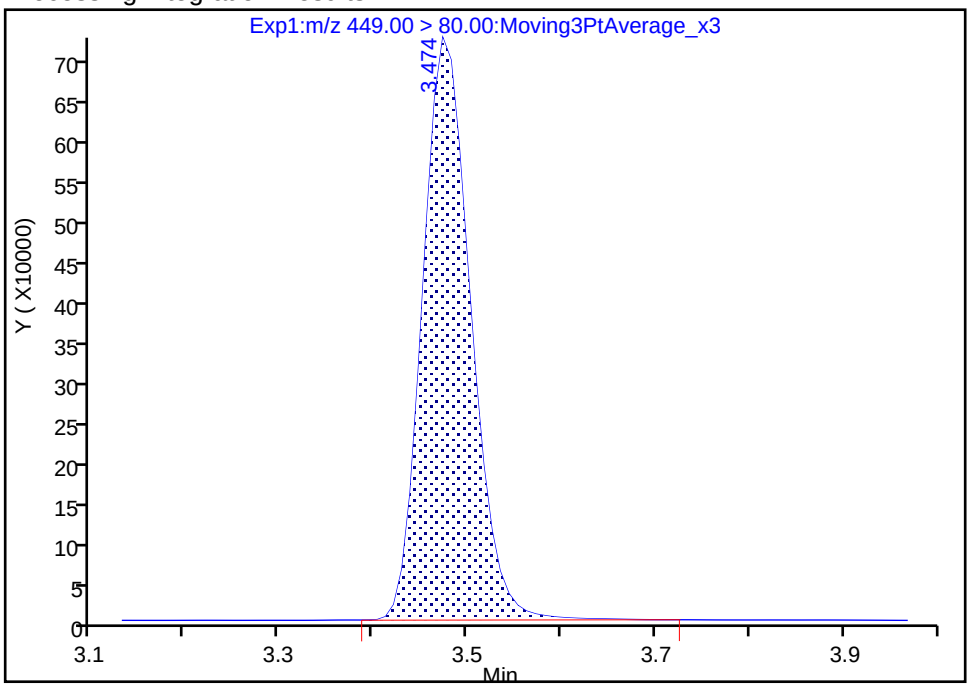
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

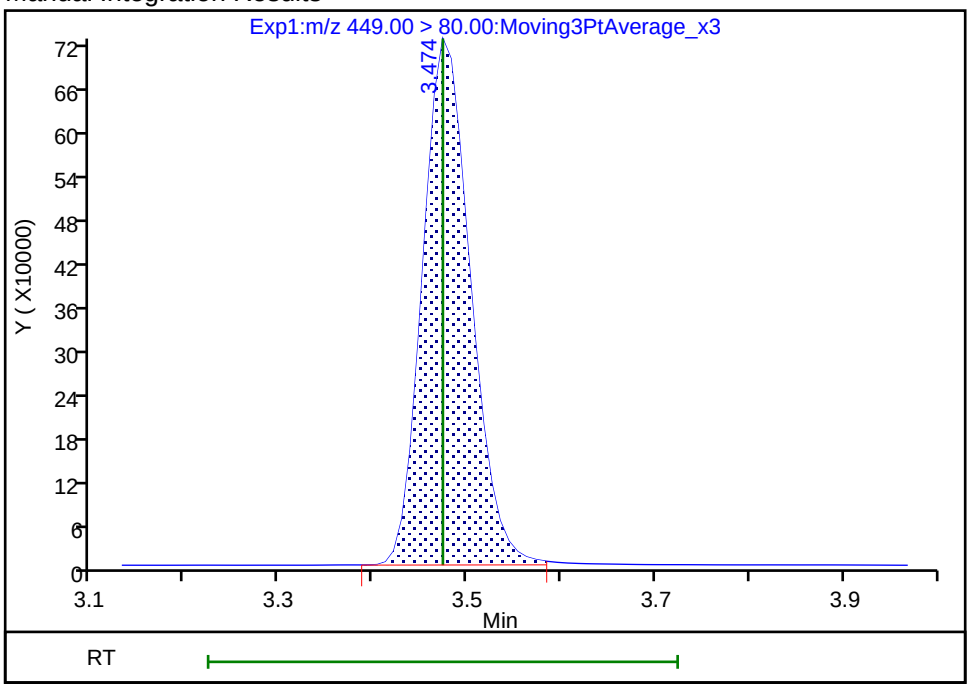
Processing Integration Results

RT: 3.47
Area: 2578776
Amount: 2.327568
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 2568289
Amount: 2.318103
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:32:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

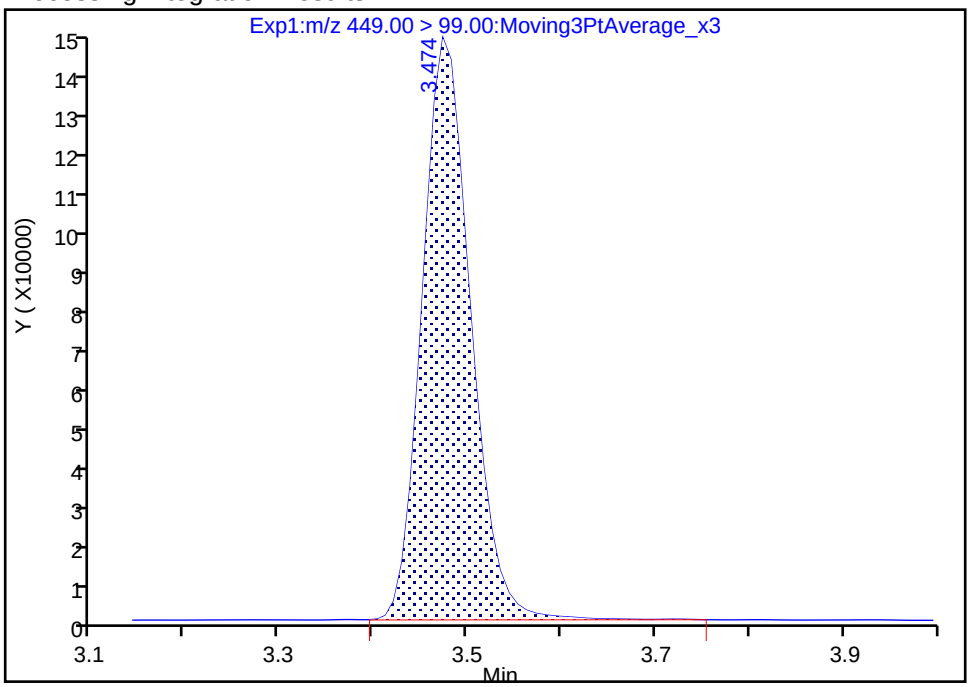
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

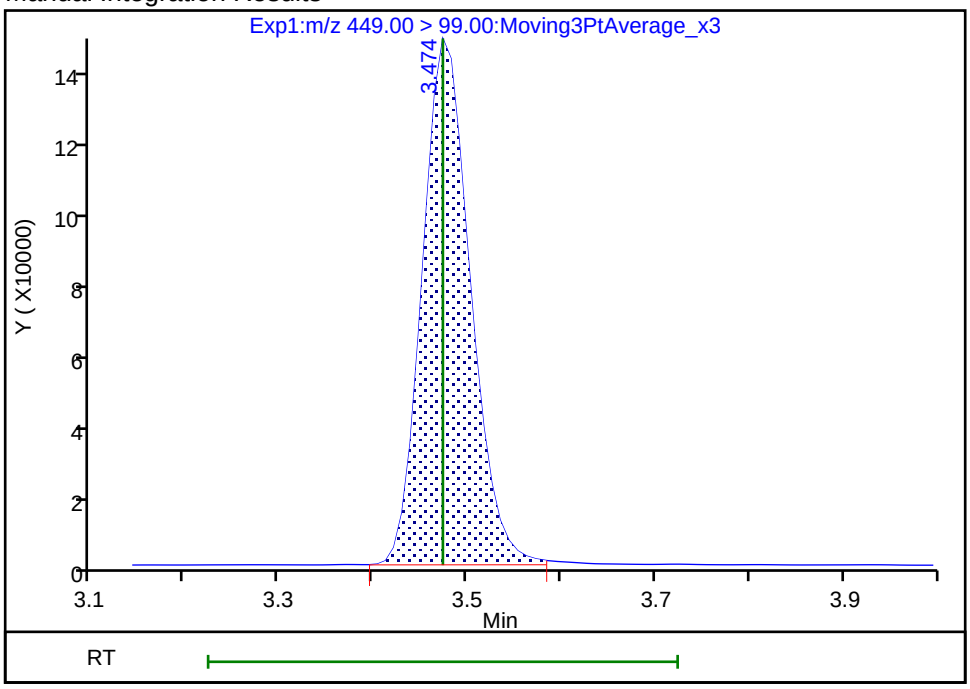
Processing Integration Results

RT: 3.47
Area: 516705
Amount: 2.327568
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 513704
Amount: 2.318103
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:33:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

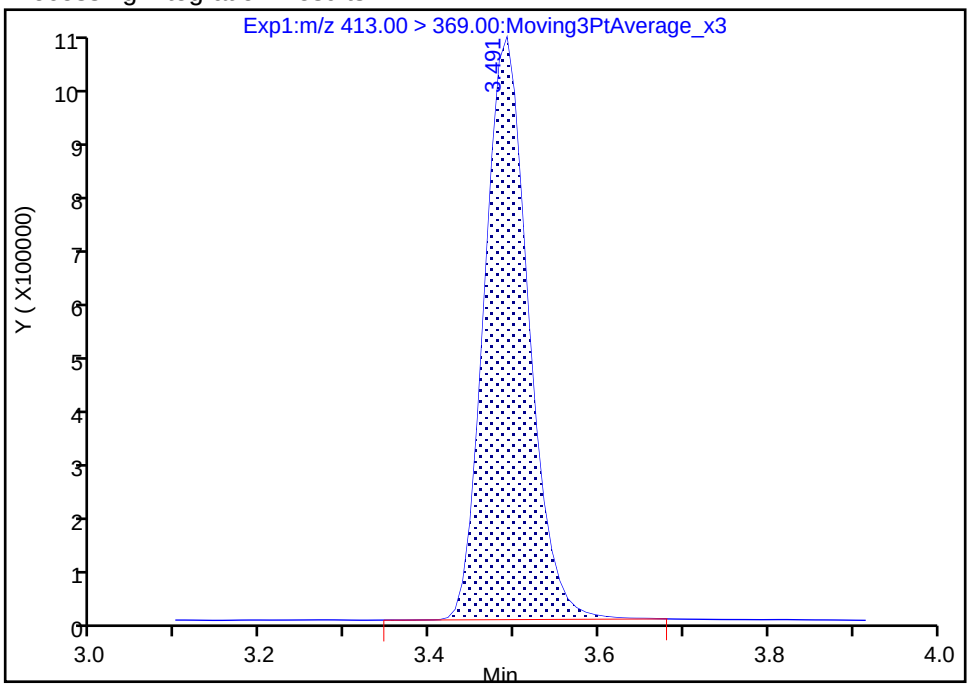
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

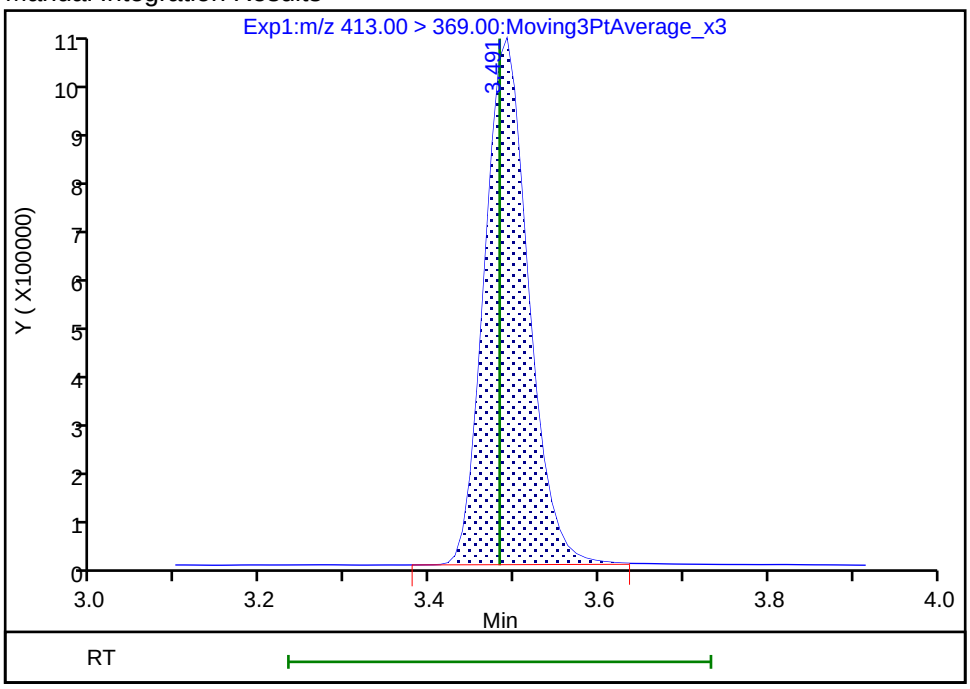
Processing Integration Results

RT: 3.49
Area: 3672054
Amount: 2.422267
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 3672726
Amount: 2.422710
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:33:16
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

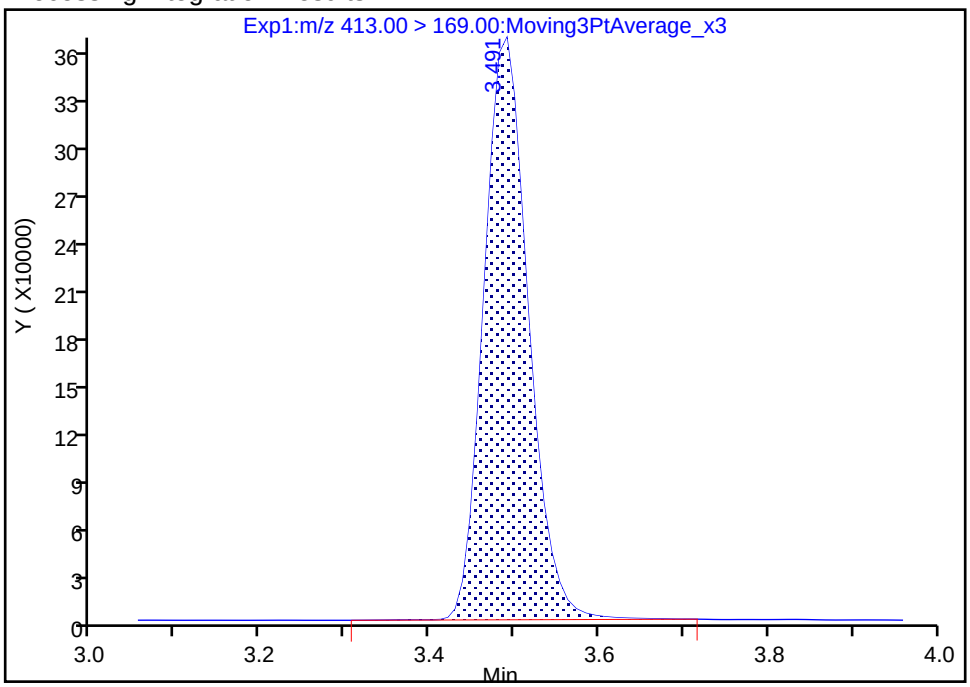
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

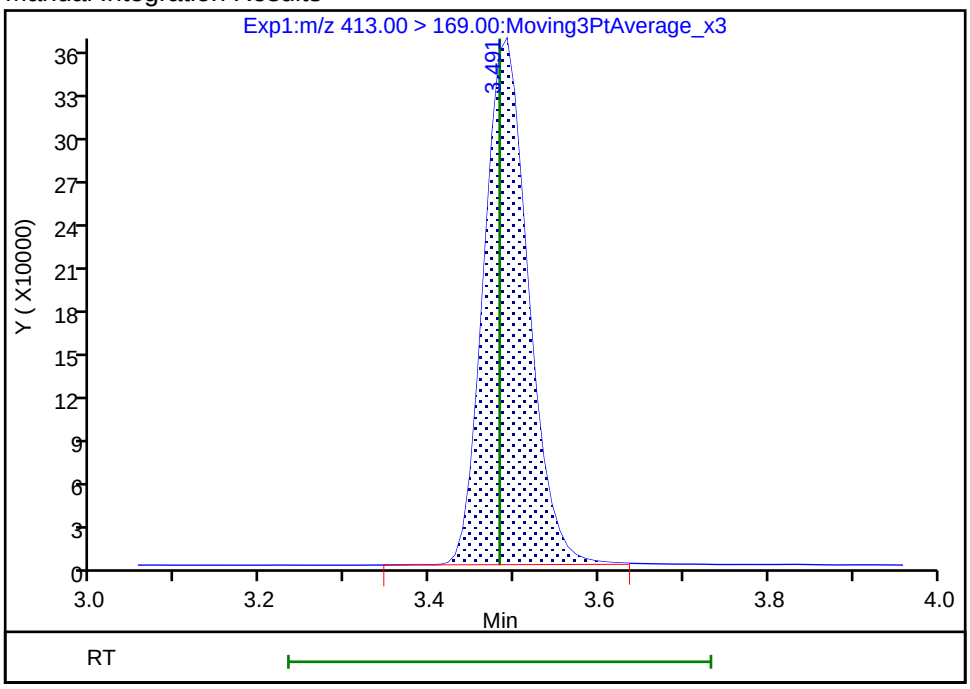
Processing Integration Results

RT: 3.49
Area: 1323924
Amount: 2.422267
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 1321650
Amount: 2.422710
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:33:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

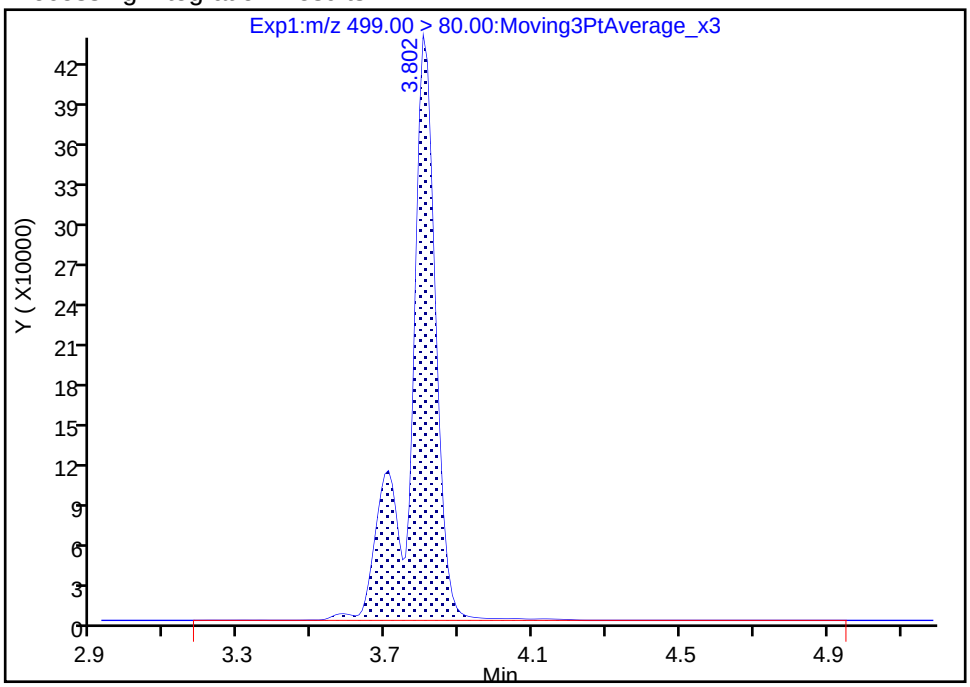
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

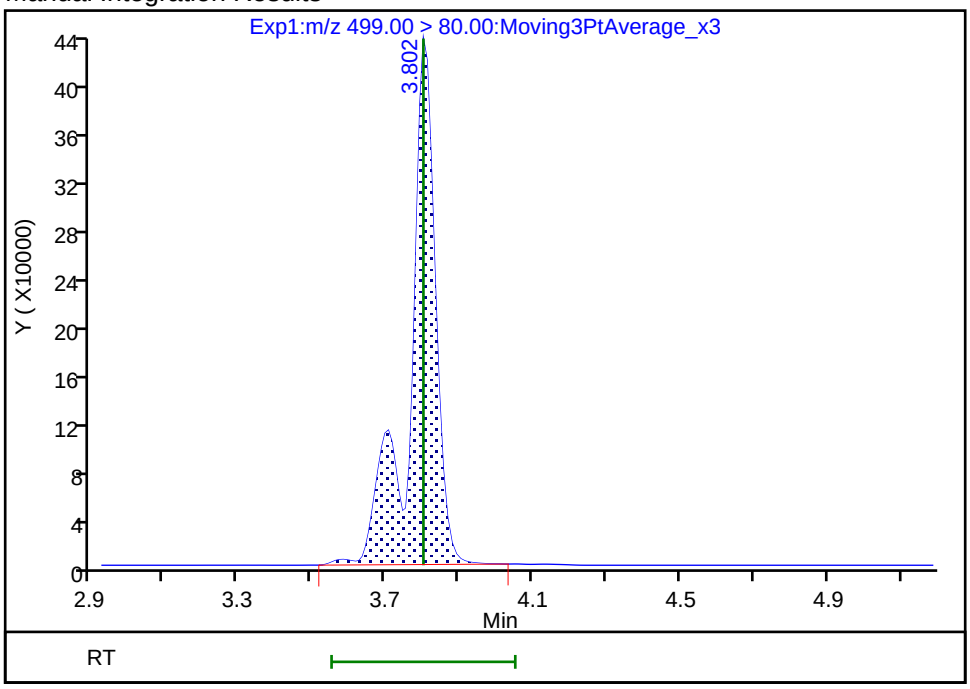
Processing Integration Results

RT: 3.80
Area: 2168575
Amount: 2.203110
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 2142504
Amount: 2.176624
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:33:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

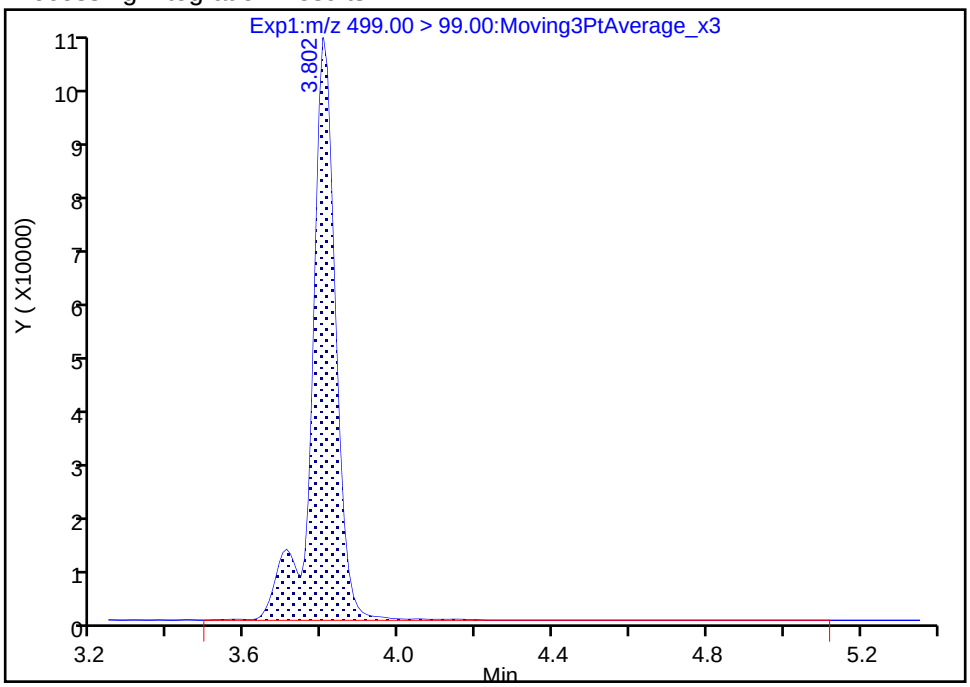
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

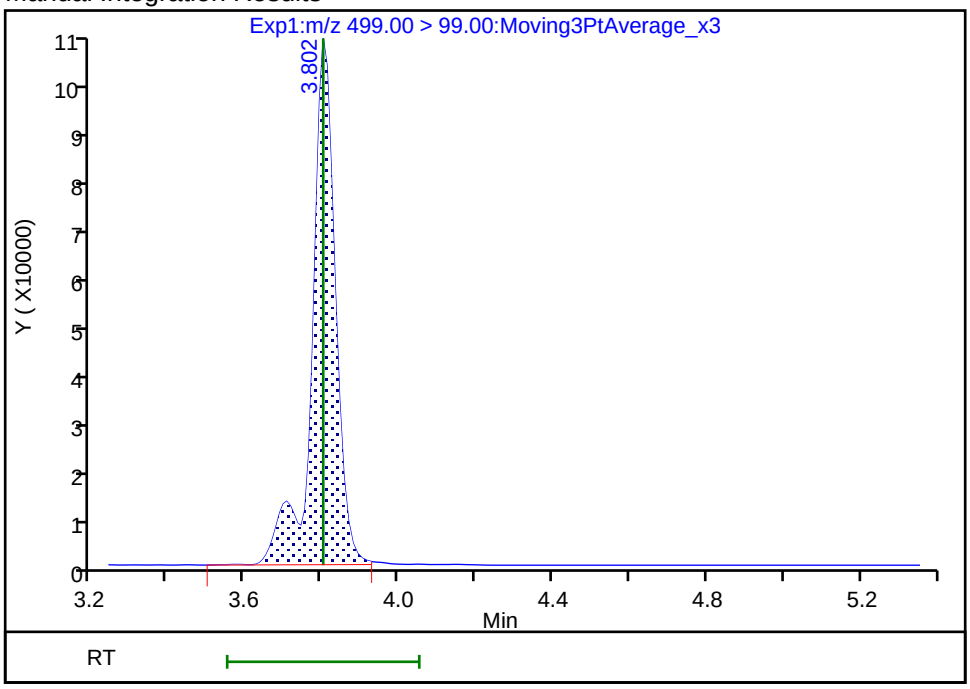
Processing Integration Results

RT: 3.80
Area: 465932
Amount: 2.203110
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 460020
Amount: 2.176624
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:33:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

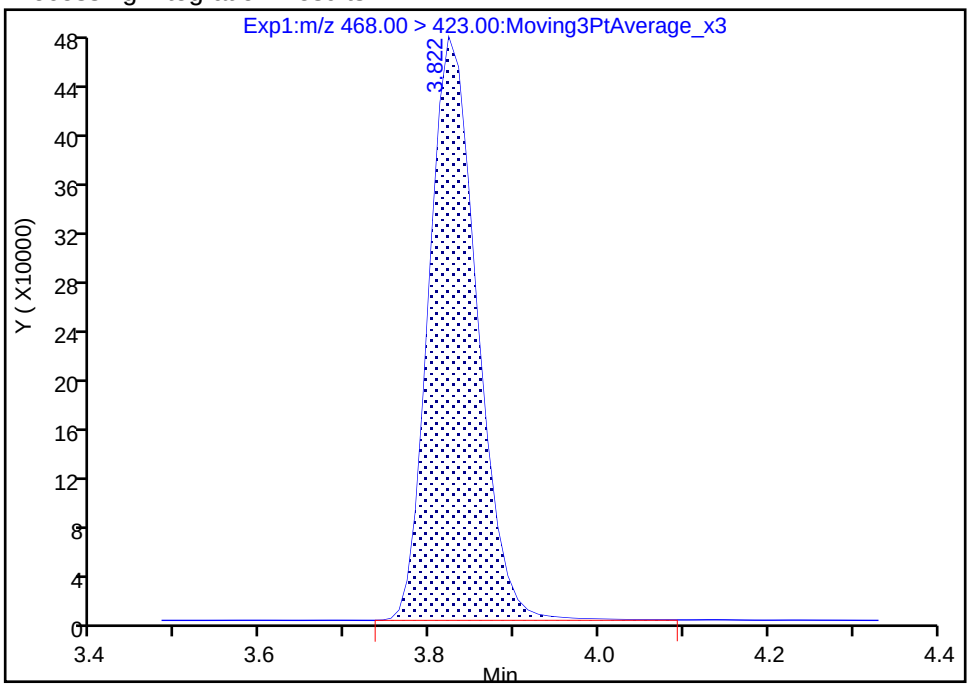
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

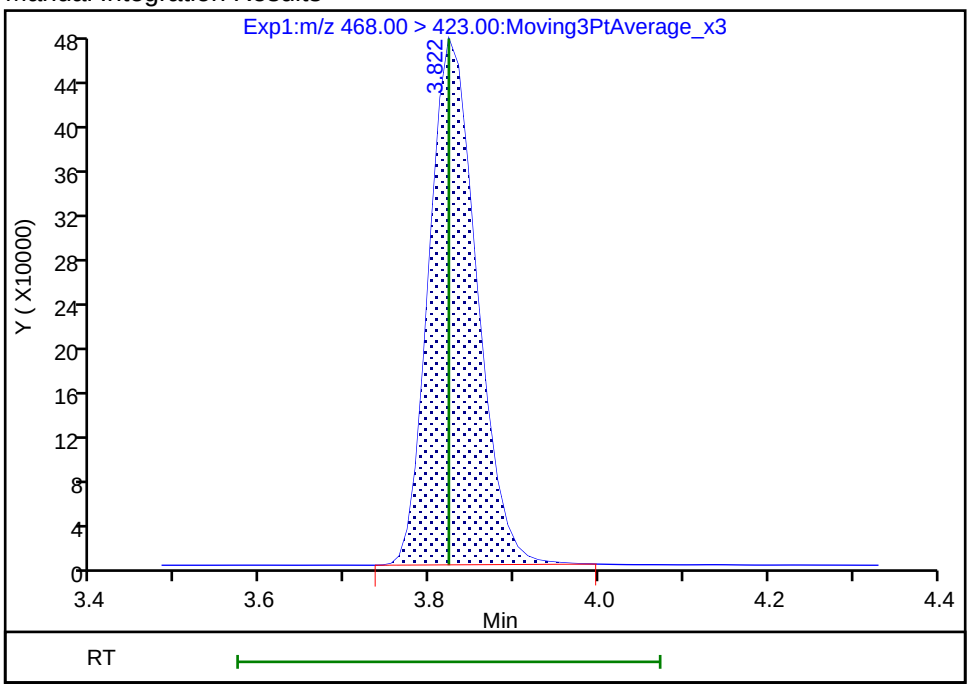
Processing Integration Results

RT: 3.82
Area: 1882996
Amount: 1.280647
Amount Units: ng/ml



Manual Integration Results

RT: 3.82
Area: 1872002
Amount: 1.273170
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:24:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

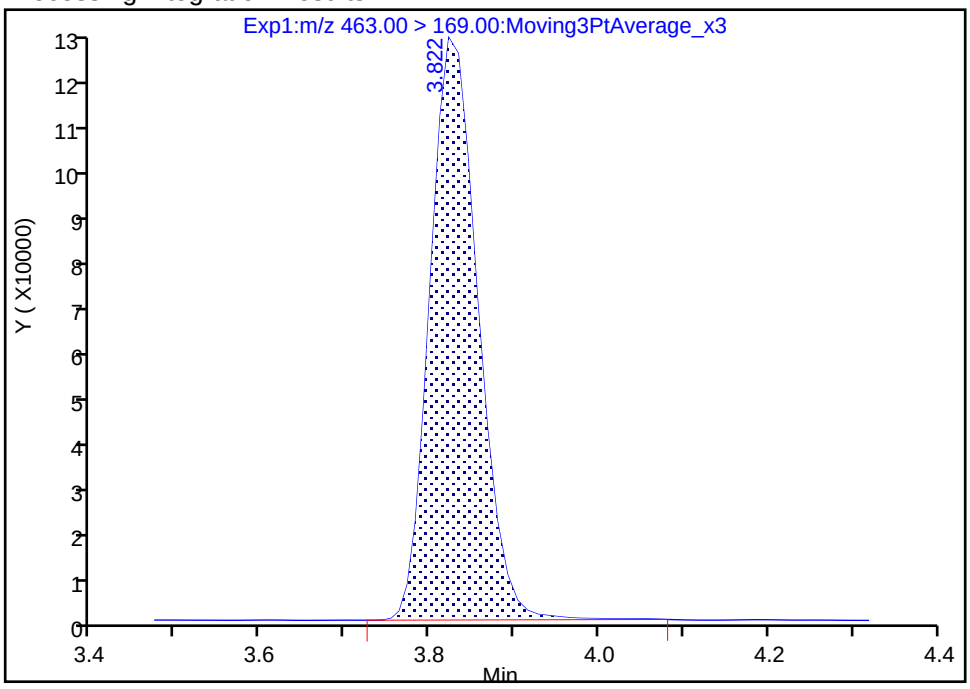
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

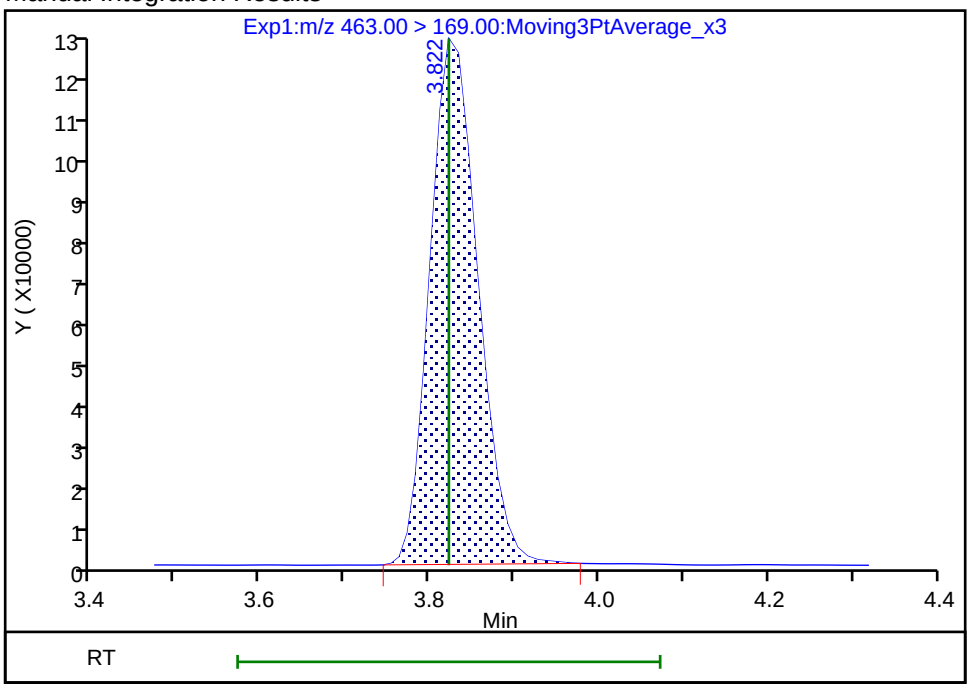
Processing Integration Results

RT: 3.82
Area: 476411
Amount: 2.365940
Amount Units: ng/ml



Manual Integration Results

RT: 3.82
Area: 473202
Amount: 2.353628
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:34:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

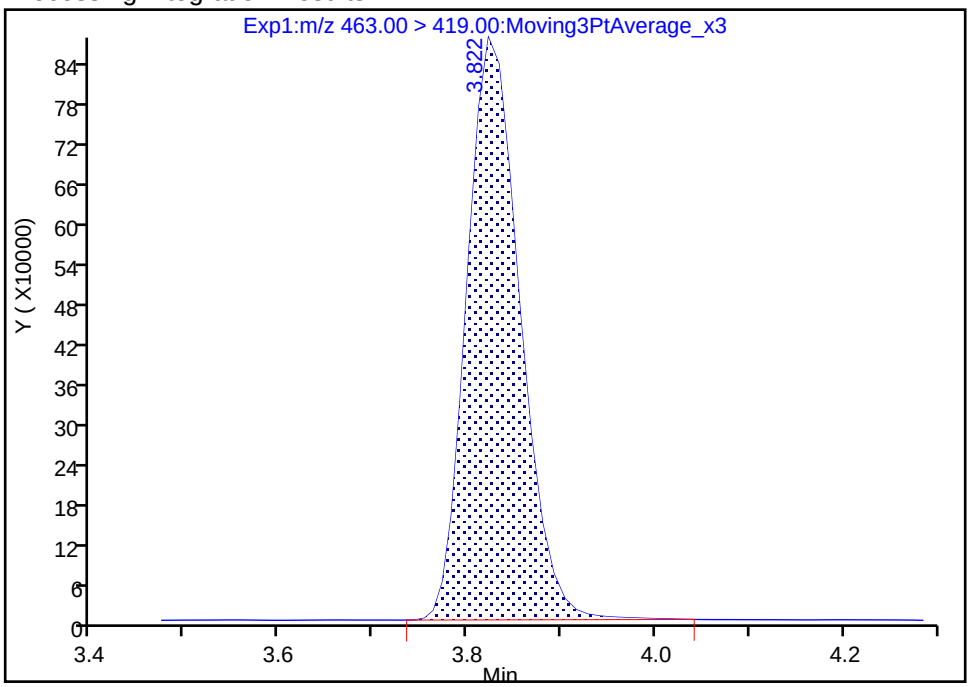
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

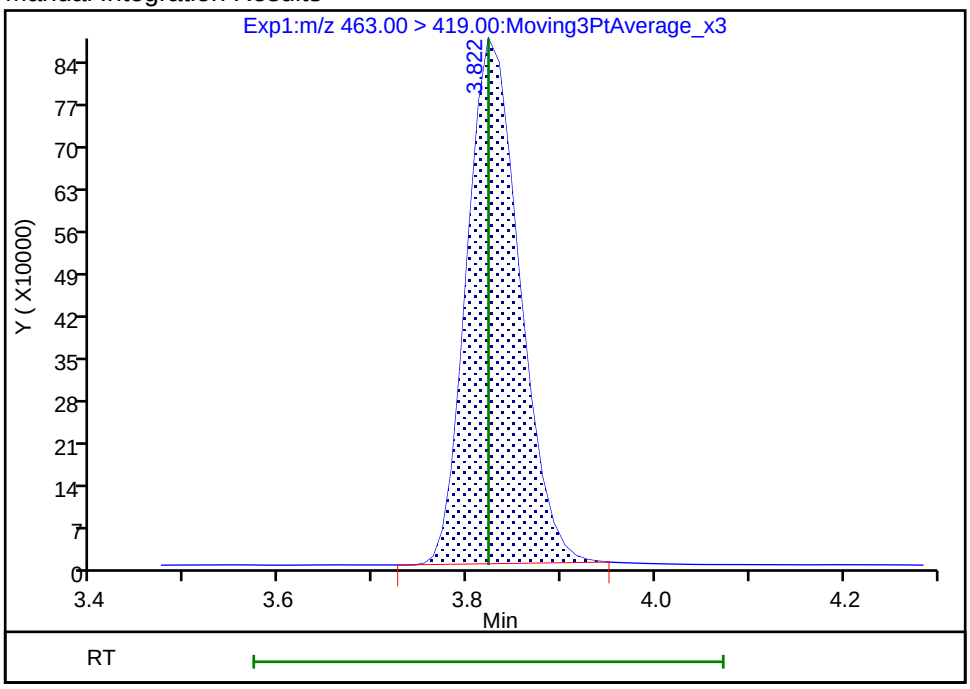
Processing Integration Results

RT: 3.82
Area: 3447089
Amount: 2.365940
Amount Units: ng/ml



Manual Integration Results

RT: 3.82
Area: 3409129
Amount: 2.353628
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:24:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

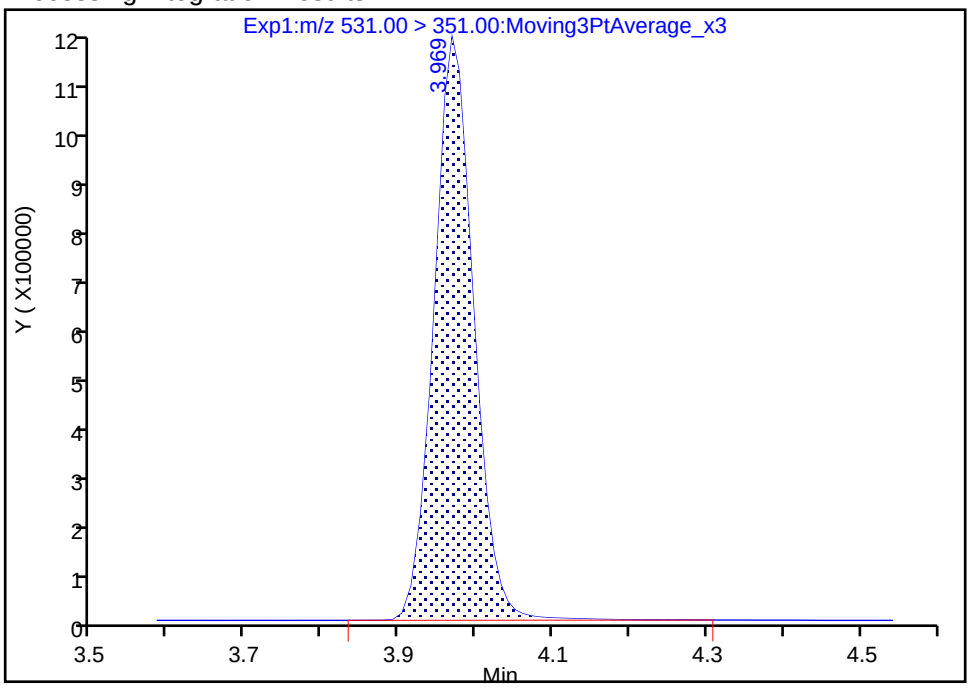
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

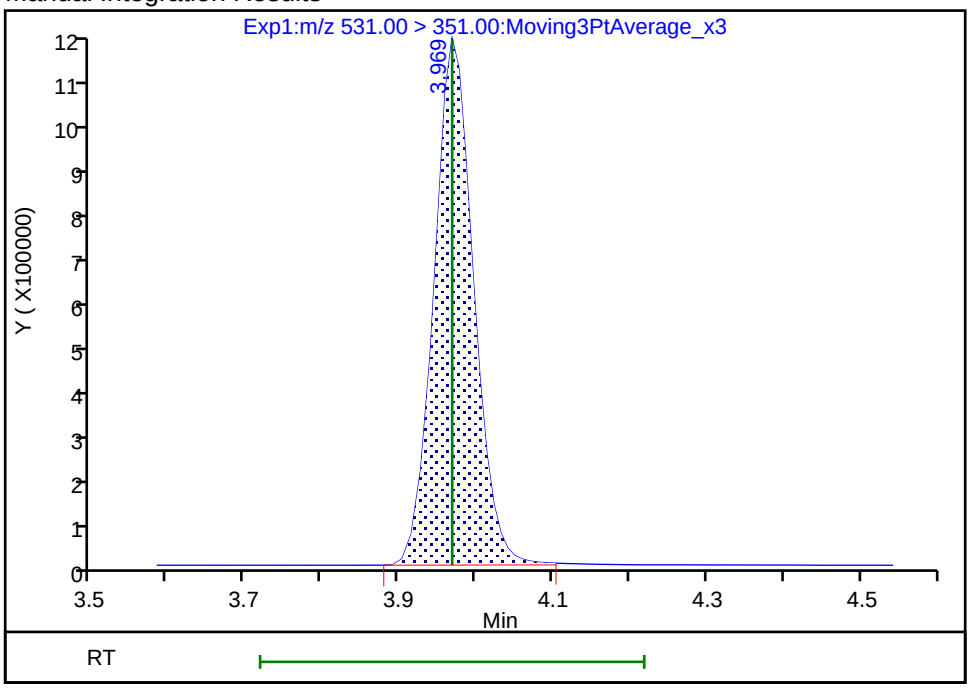
Processing Integration Results

RT: 3.97
Area: 4019635
Amount: 2.471154
Amount Units: ng/ml



Manual Integration Results

RT: 3.97
Area: 4004358
Amount: 2.461762
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:34:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

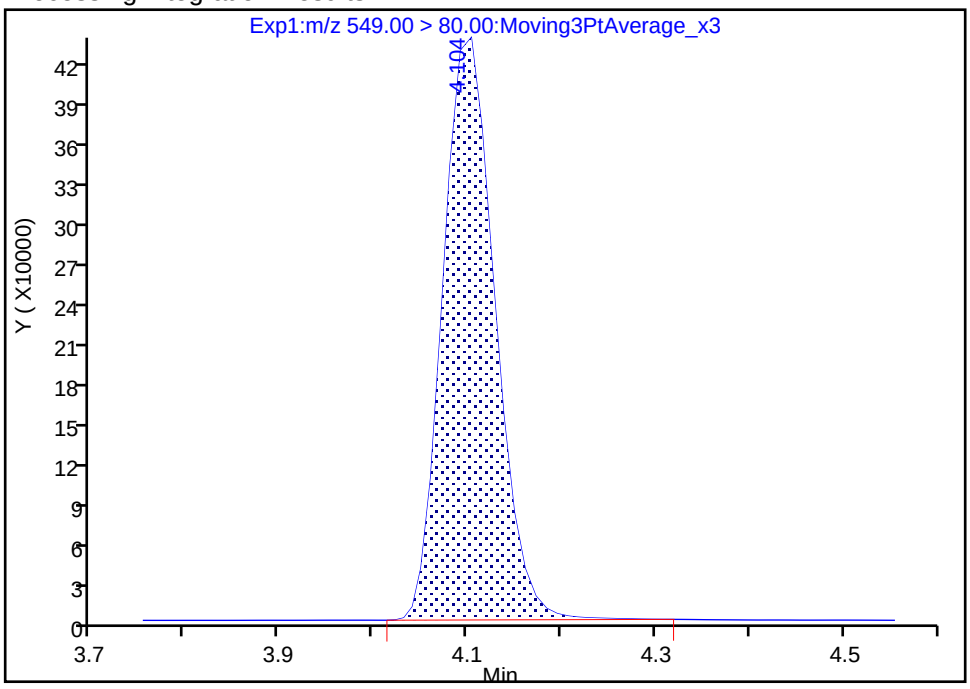
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

68 Perfluorononanesulfonic acid, CAS: 68259-12-1

Signal: 1

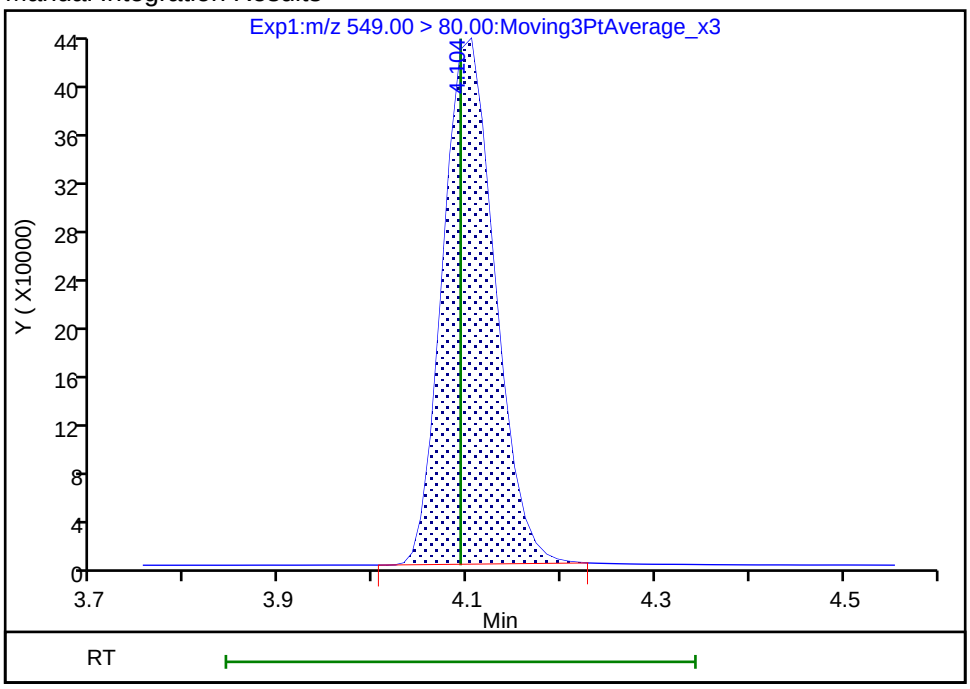
Processing Integration Results

RT: 4.10
Area: 1696165
Amount: 2.275131
Amount Units: ng/ml



Manual Integration Results

RT: 4.10
Area: 1684263
Amount: 2.259166
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:24:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

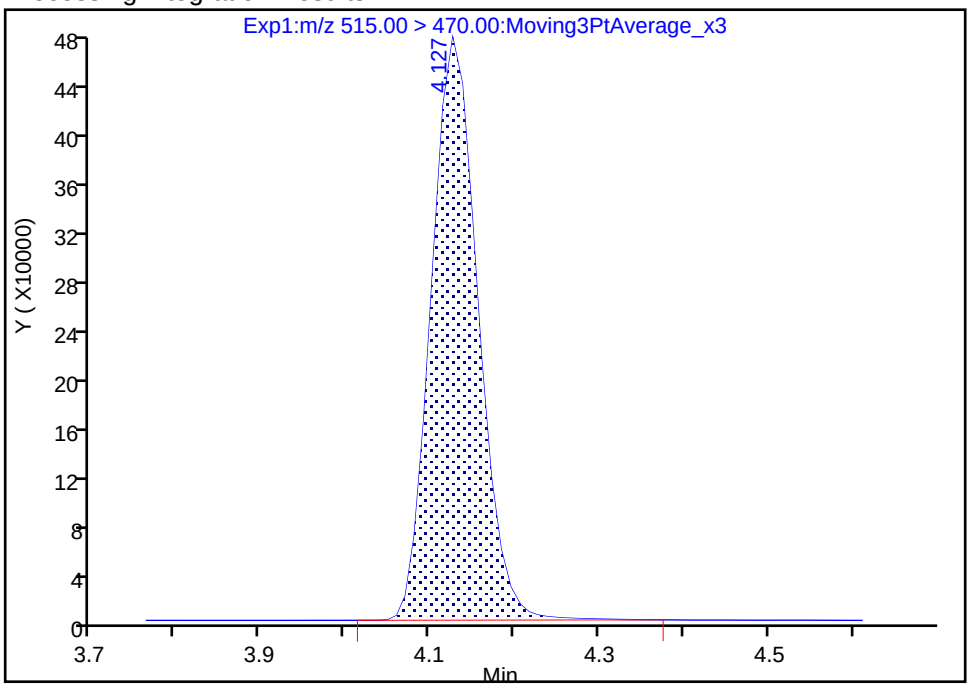
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

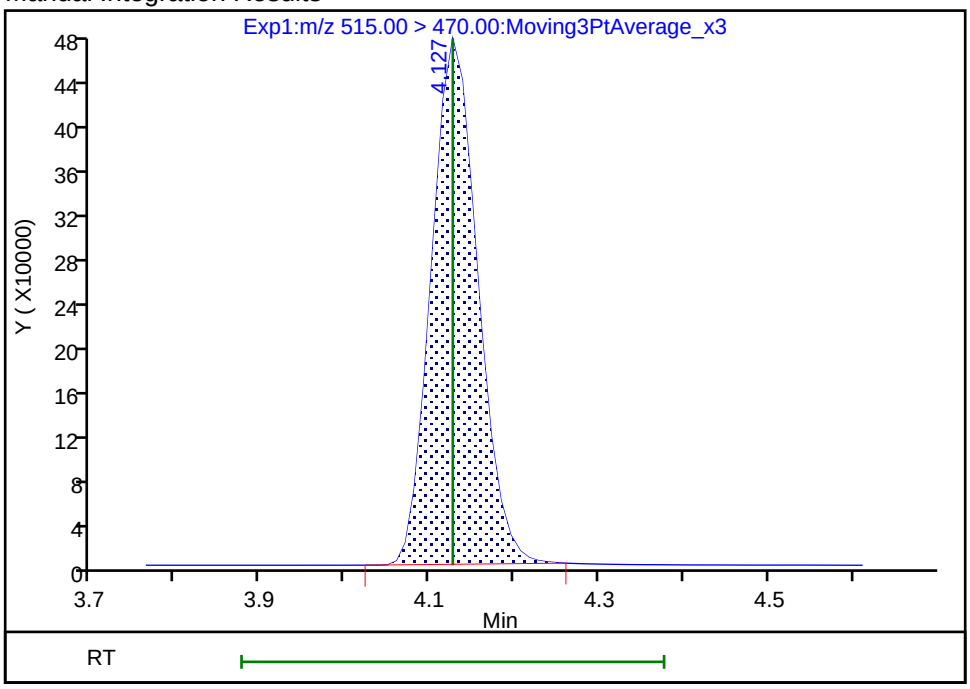
Processing Integration Results

RT: 4.13
Area: 1817253
Amount: 1.283545
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 1802390
Amount: 1.273047
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:25:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

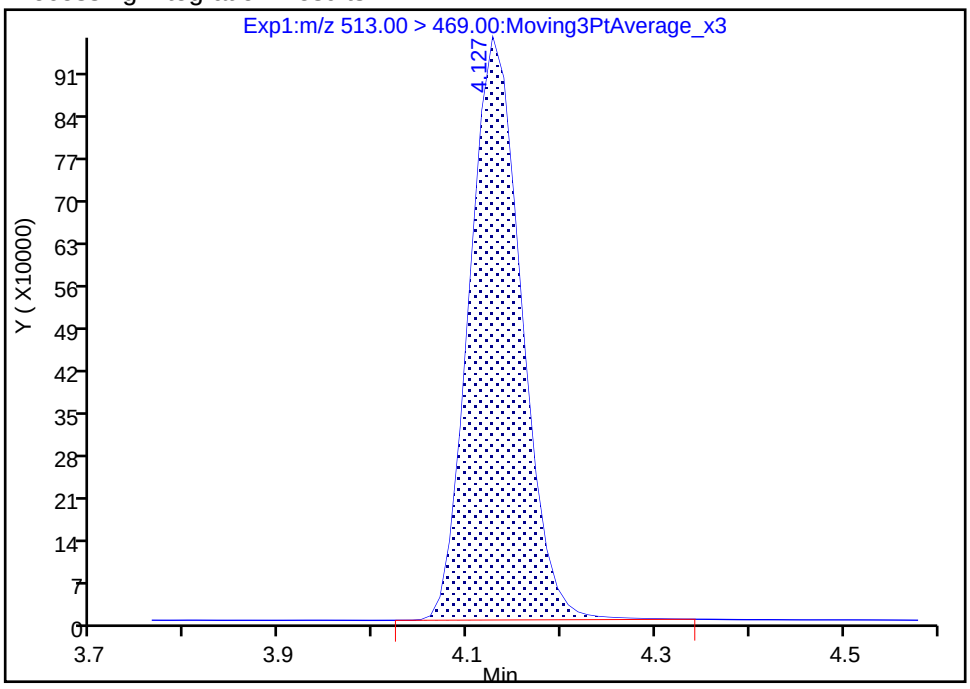
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

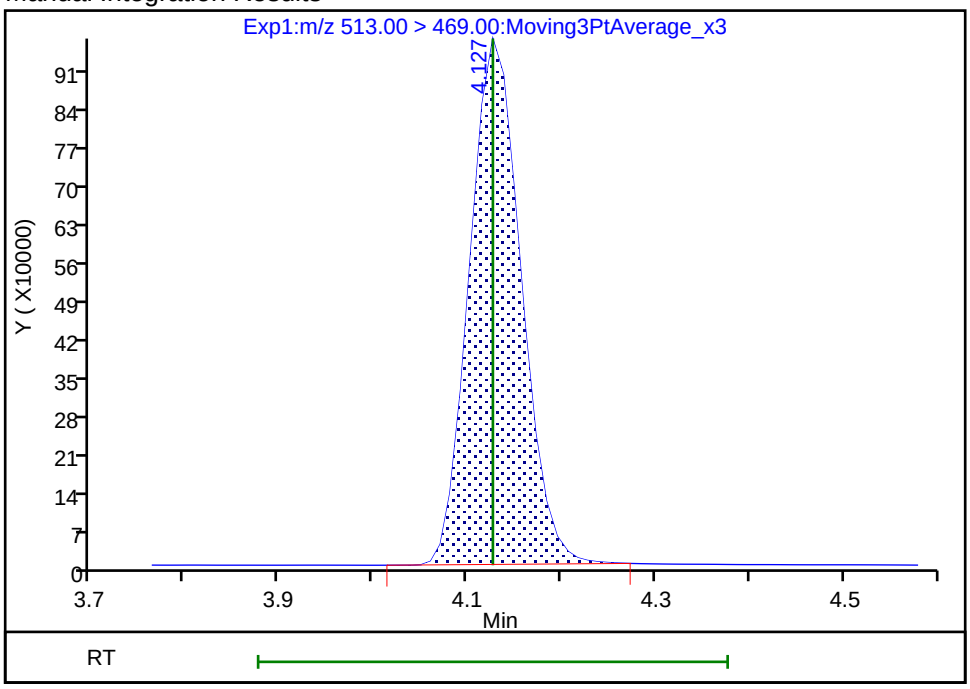
Processing Integration Results

RT: 4.13
Area: 3694481
Amount: 2.405007
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 3676095
Amount: 2.393039
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:25:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

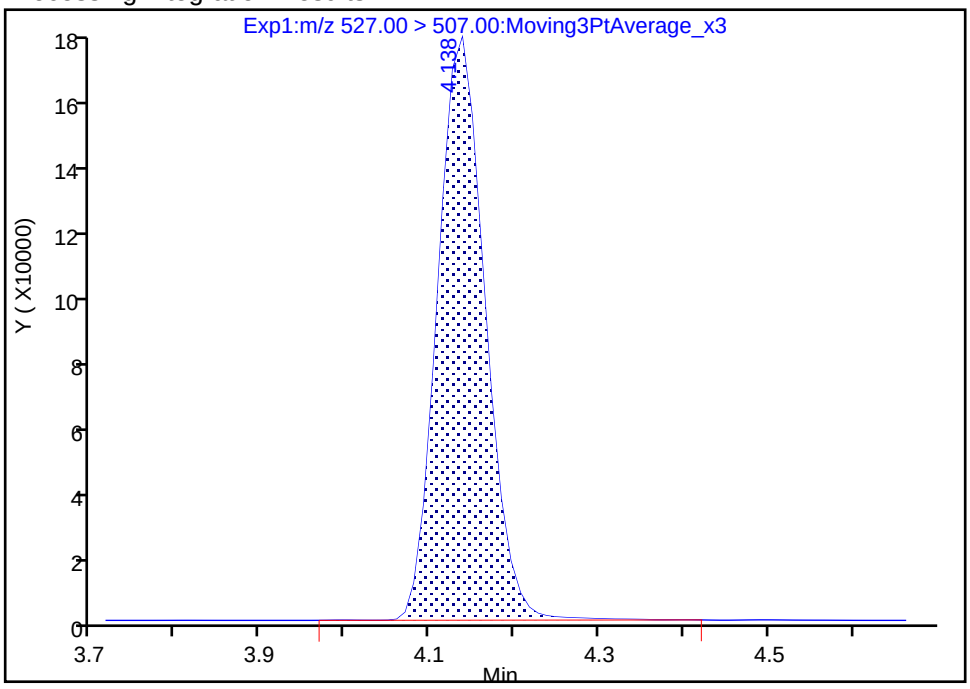
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

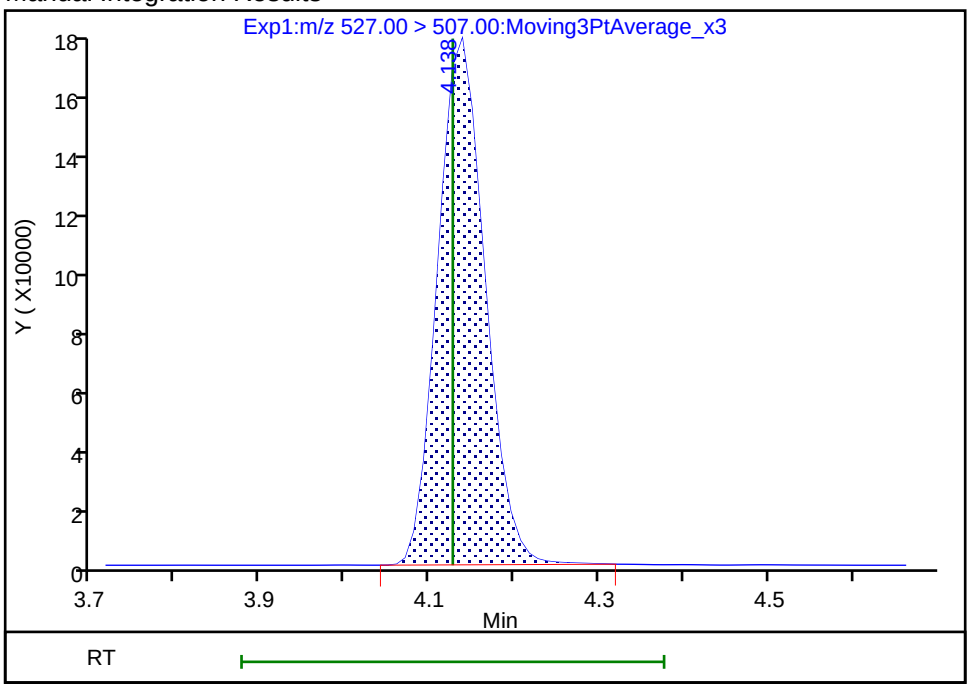
Processing Integration Results

RT: 4.14
Area: 681653
Amount: 2.488118
Amount Units: ng/ml



Manual Integration Results

RT: 4.14
Area: 678893
Amount: 2.490210
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:34:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

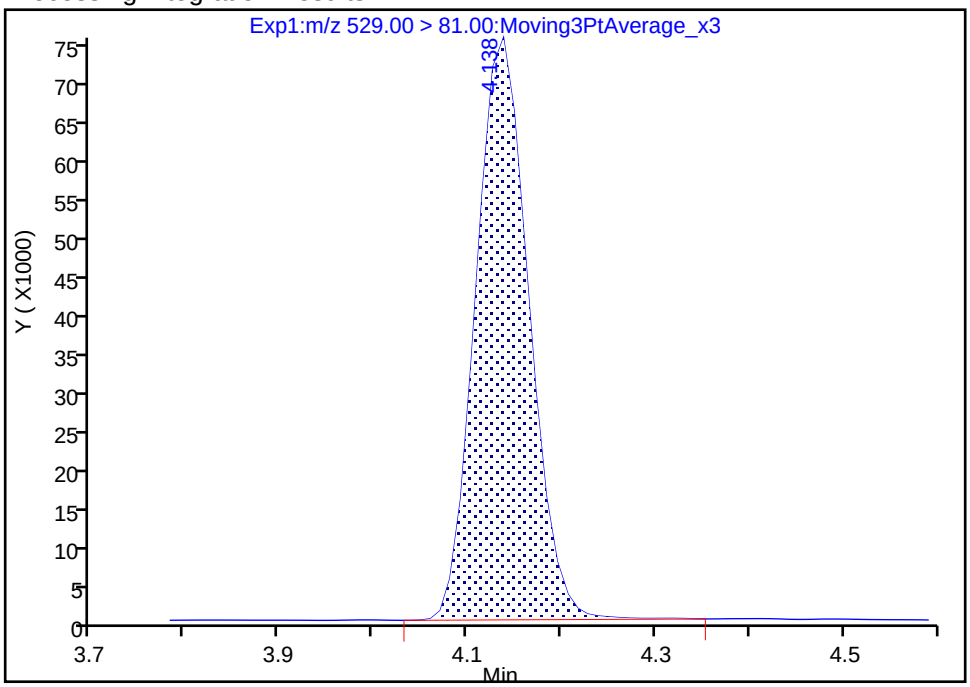
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 26 M2-8:2 FTS, CAS: STL02280

Signal: 1

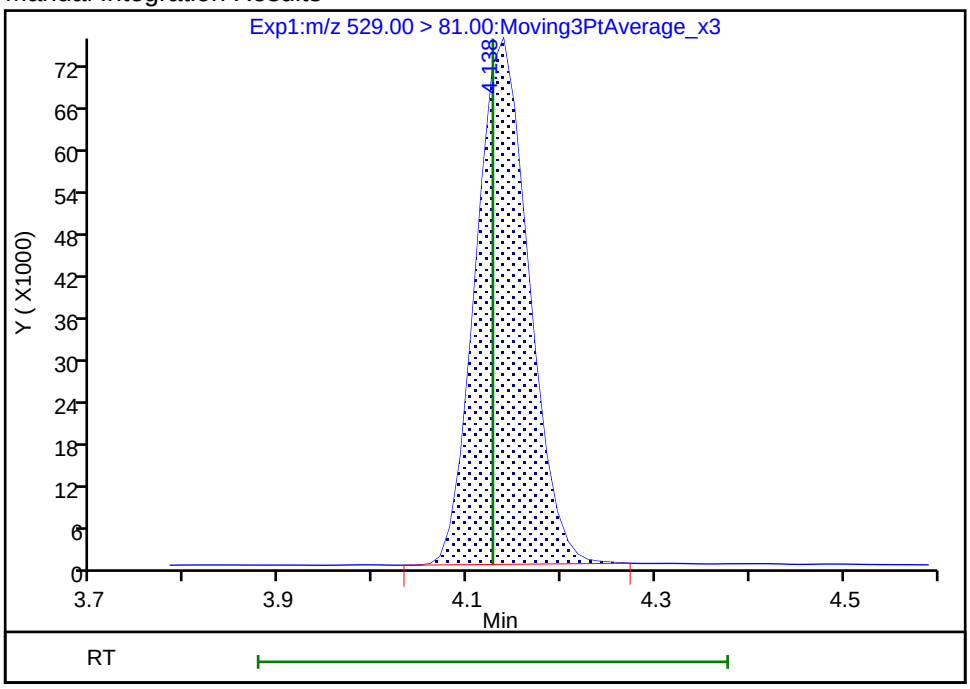
Processing Integration Results

RT: 4.14
Area: 294741
Amount: 1.137256
Amount Units: ng/ml



Manual Integration Results

RT: 4.14
Area: 293301
Amount: 1.131700
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:25:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

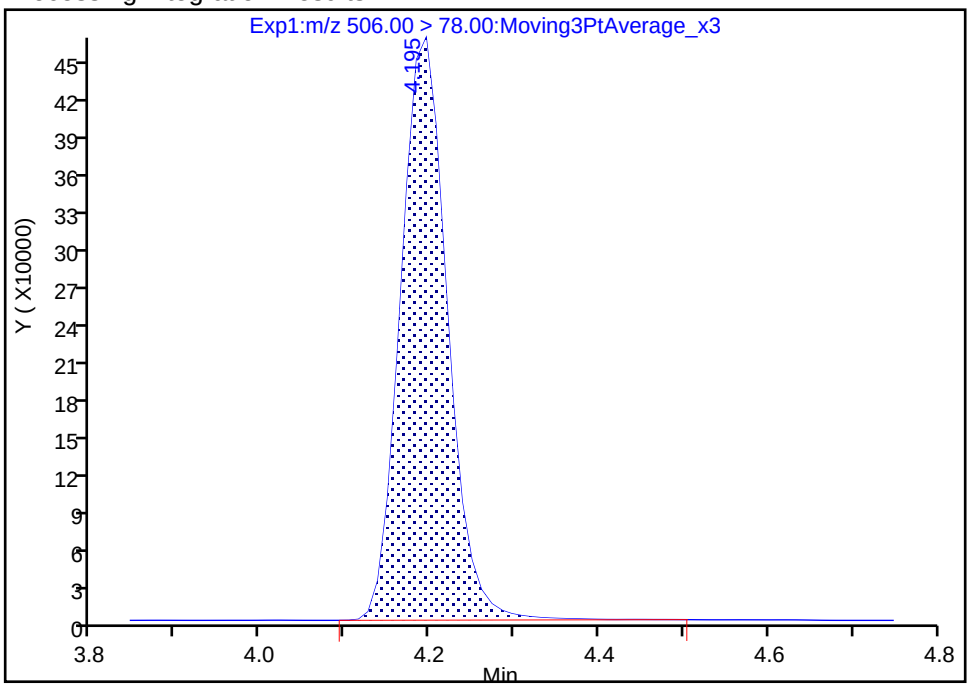
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

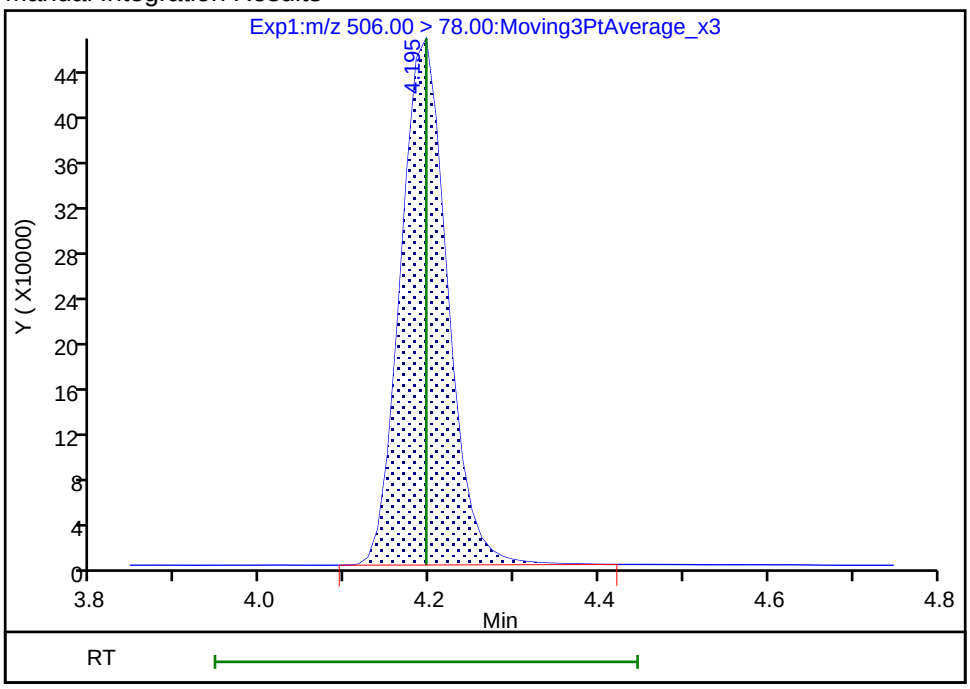
Processing Integration Results

RT: 4.20
Area: 1776063
Amount: 1.132077
Amount Units: ng/ml



Manual Integration Results

RT: 4.20
Area: 1773151
Amount: 1.138346
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:05:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

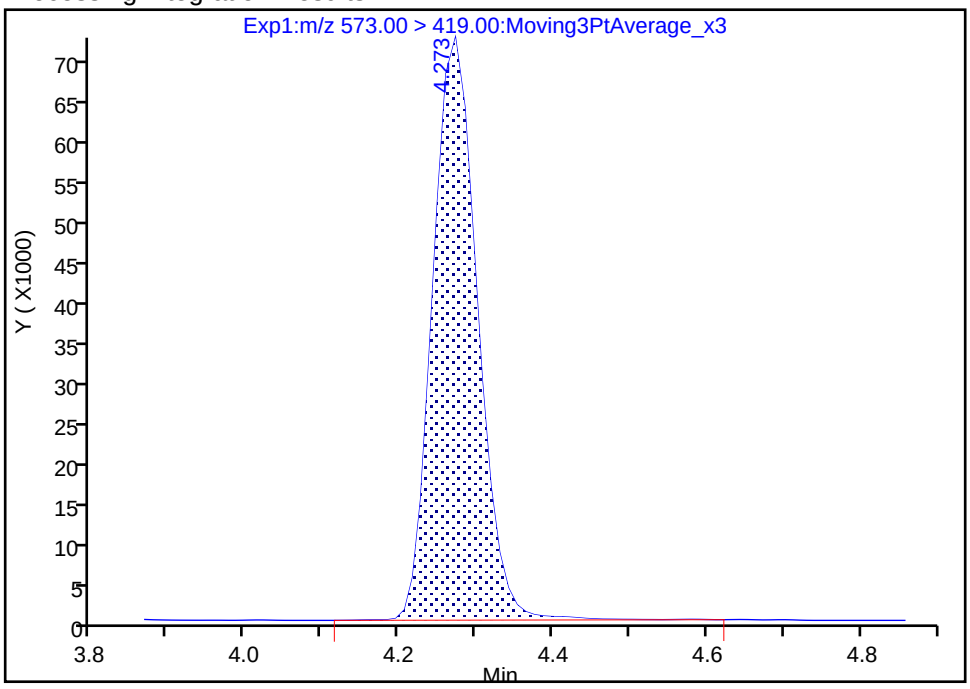
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

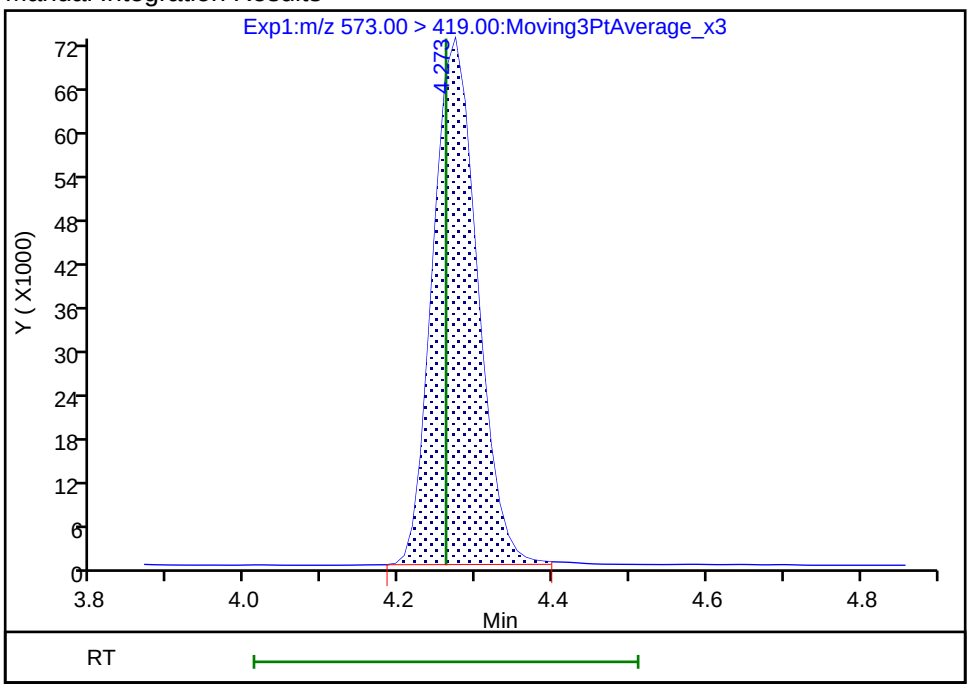
Processing Integration Results

RT: 4.27
Area: 293824
Amount: 1.552342
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 291352
Amount: 1.550348
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:06:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

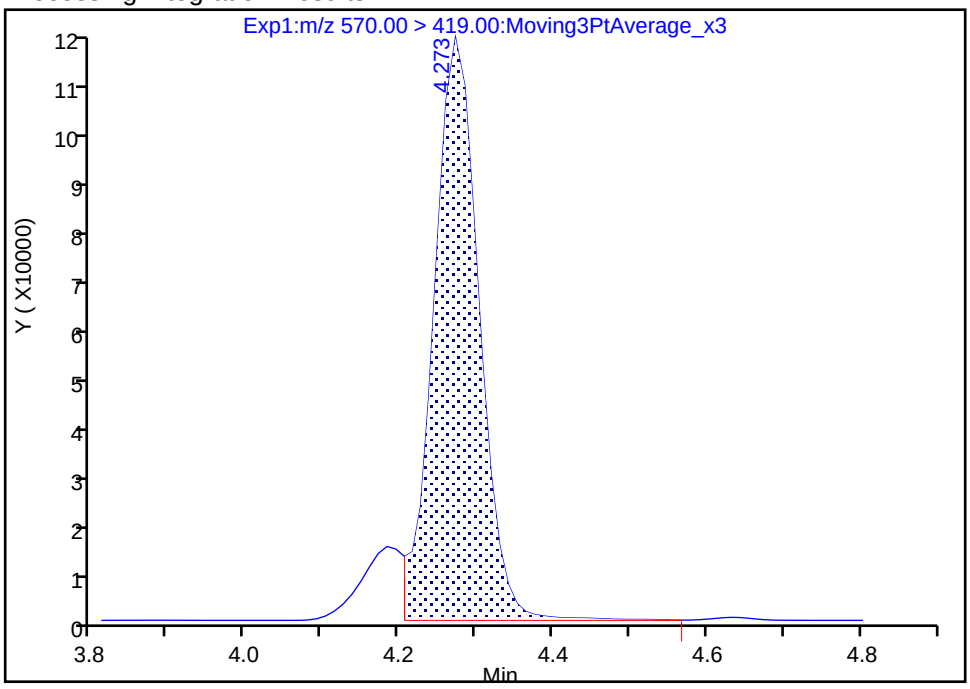
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

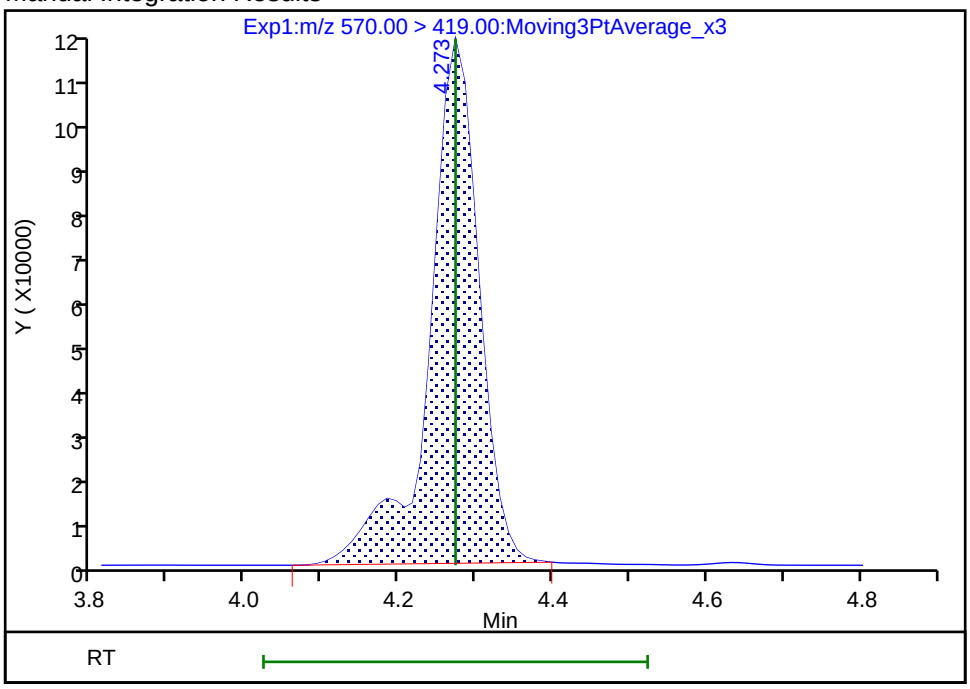
Processing Integration Results

RT: 4.27
Area: 459095
Amount: 2.165862
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 501581
Amount: 2.366297
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:25:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

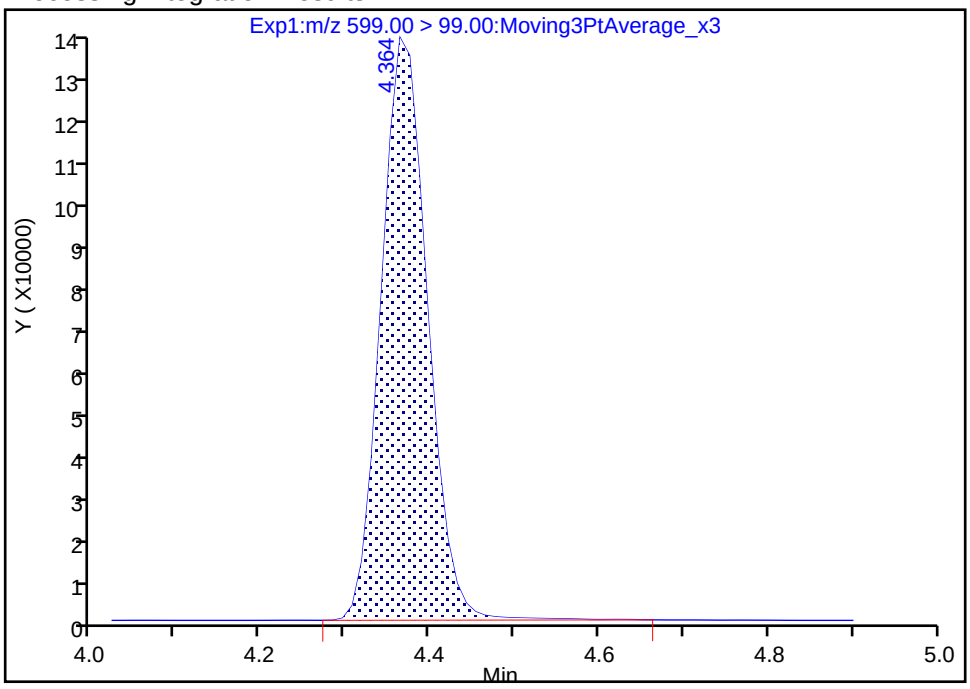
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

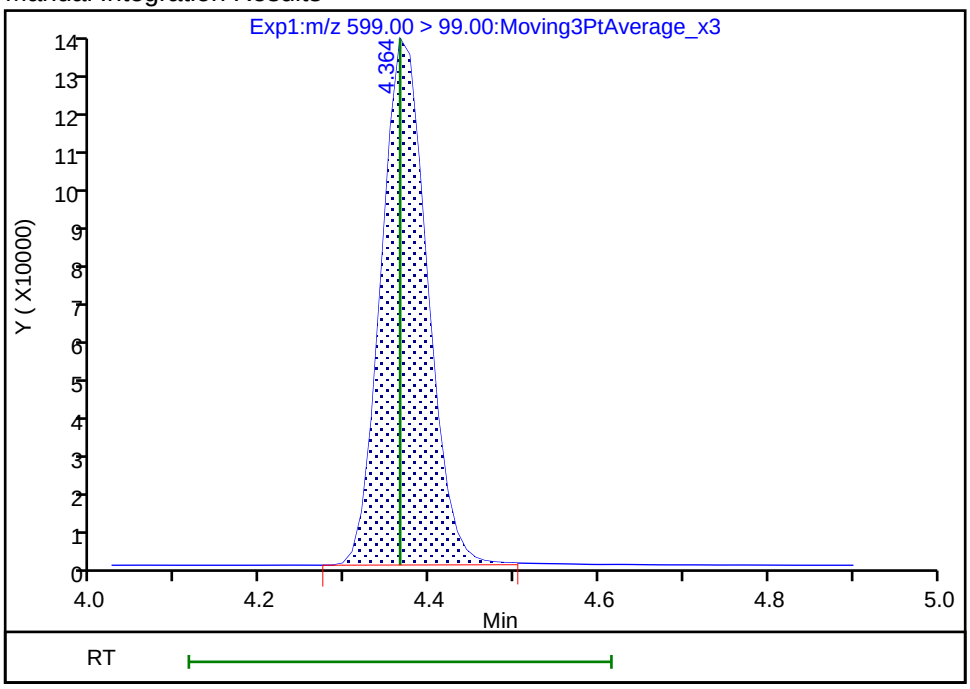
Processing Integration Results

RT: 4.36
Area: 508012
Amount: 2.222609
Amount Units: ng/ml



Manual Integration Results

RT: 4.36
Area: 505756
Amount: 2.209714
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:35:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

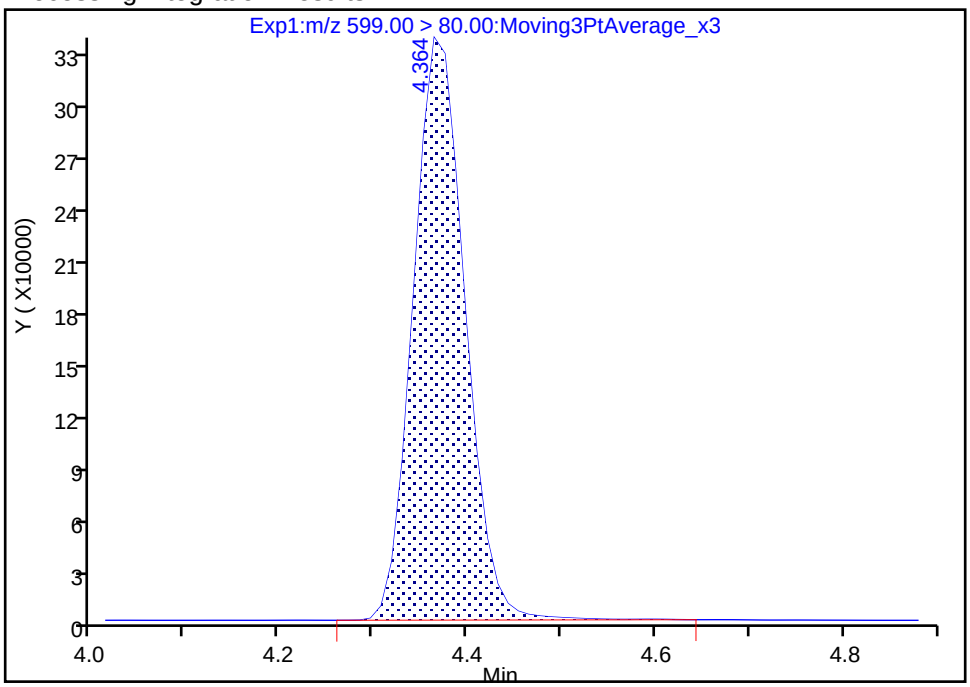
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

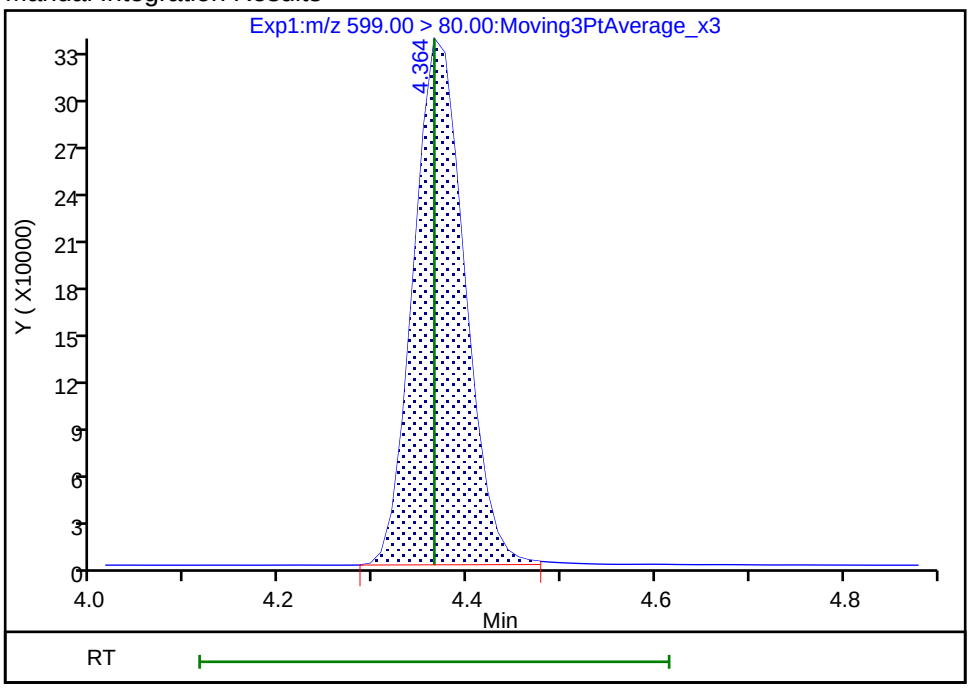
Processing Integration Results

RT: 4.36
Area: 1263570
Amount: 2.222609
Amount Units: ng/ml



Manual Integration Results

RT: 4.36
Area: 1256239
Amount: 2.209714
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:35:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

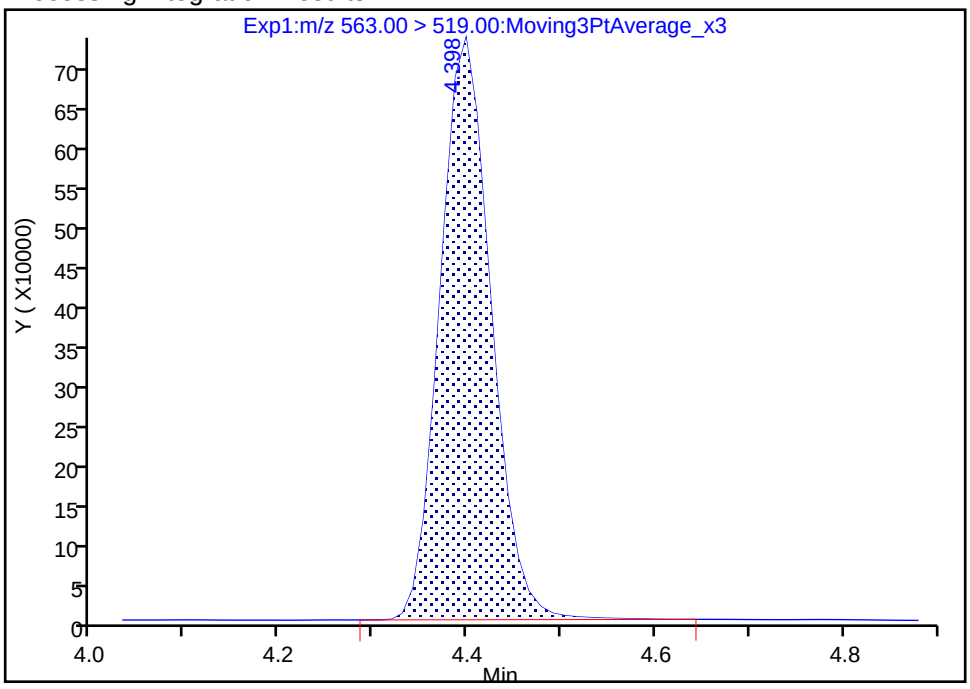
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

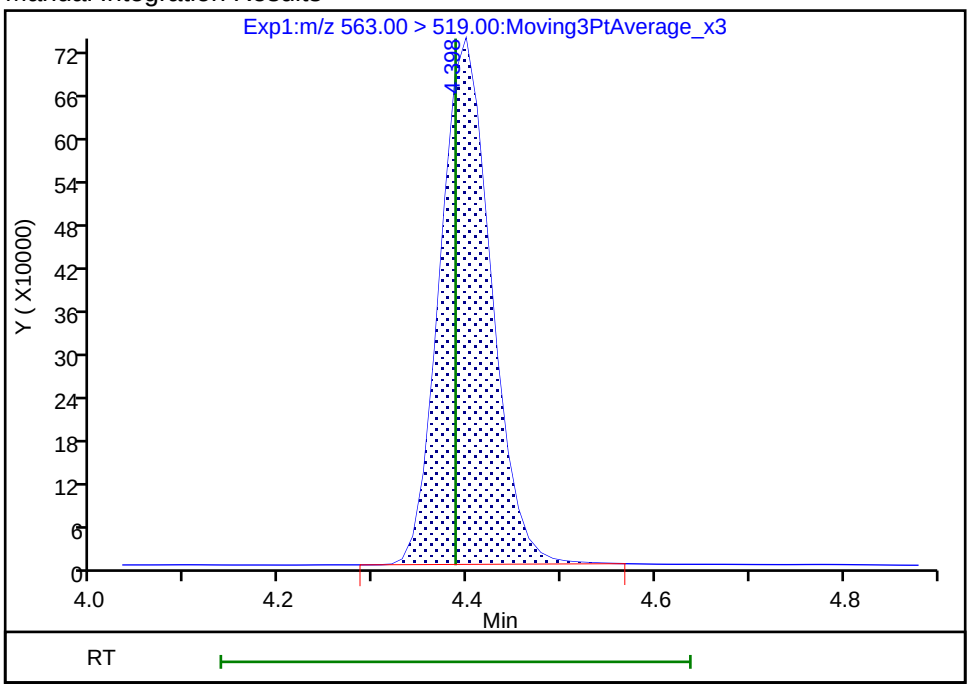
Processing Integration Results

RT: 4.40
Area: 2771593
Amount: 2.403200
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 2761019
Amount: 2.394031
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:25:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

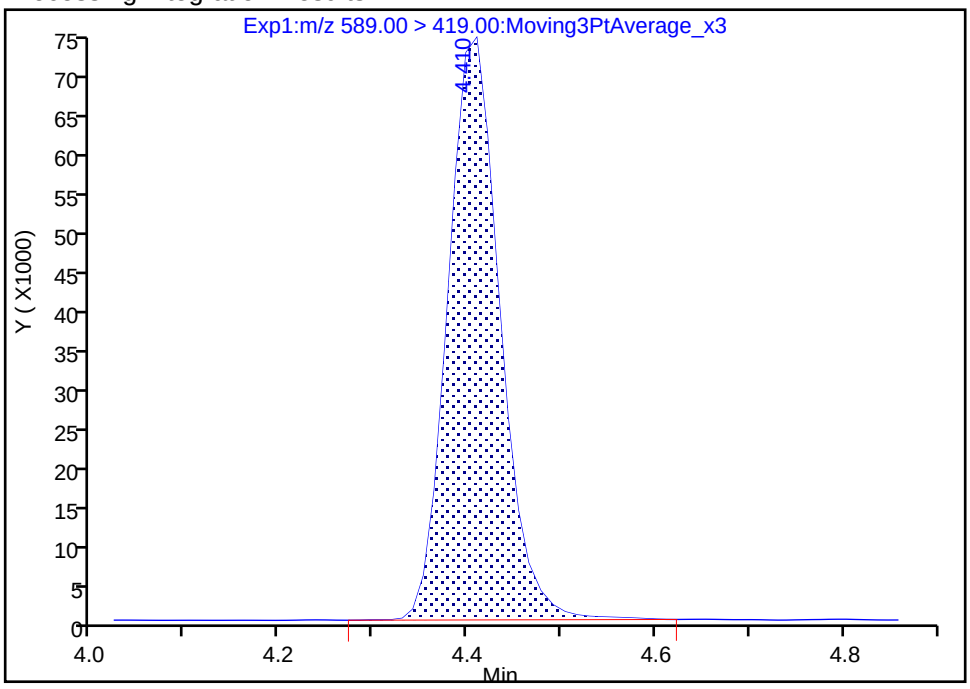
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d				
Injection Date:	13-Jun-2022 21:22:21	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	29	Worklist Smp#:	32
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

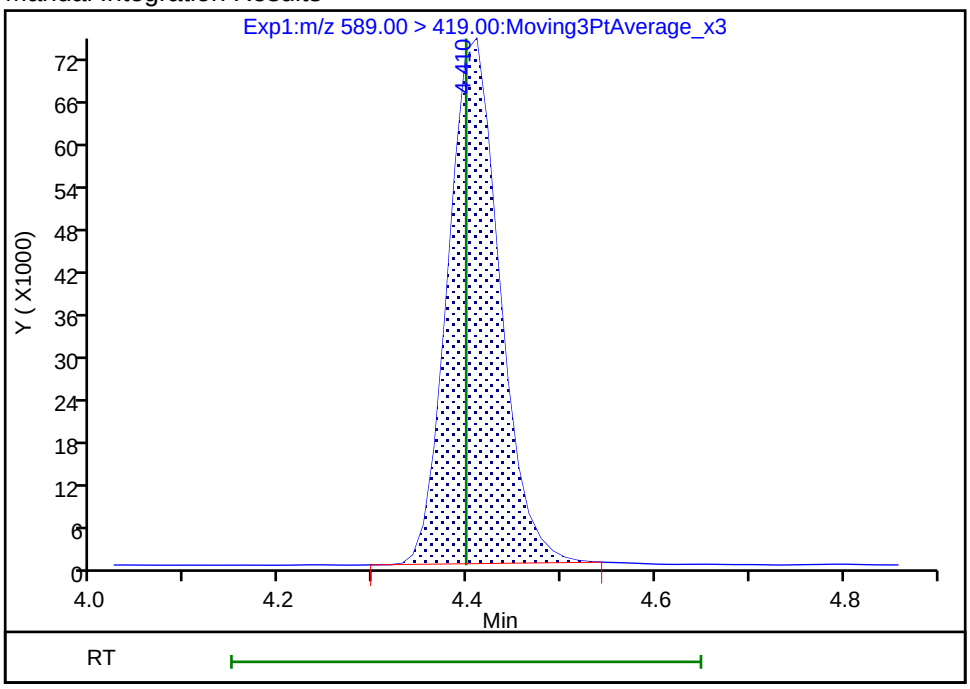
Processing Integration Results

RT: 4.41
Area: 286569
Amount: 1.561135
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 283076
Amount: 1.542106
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:25:42

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

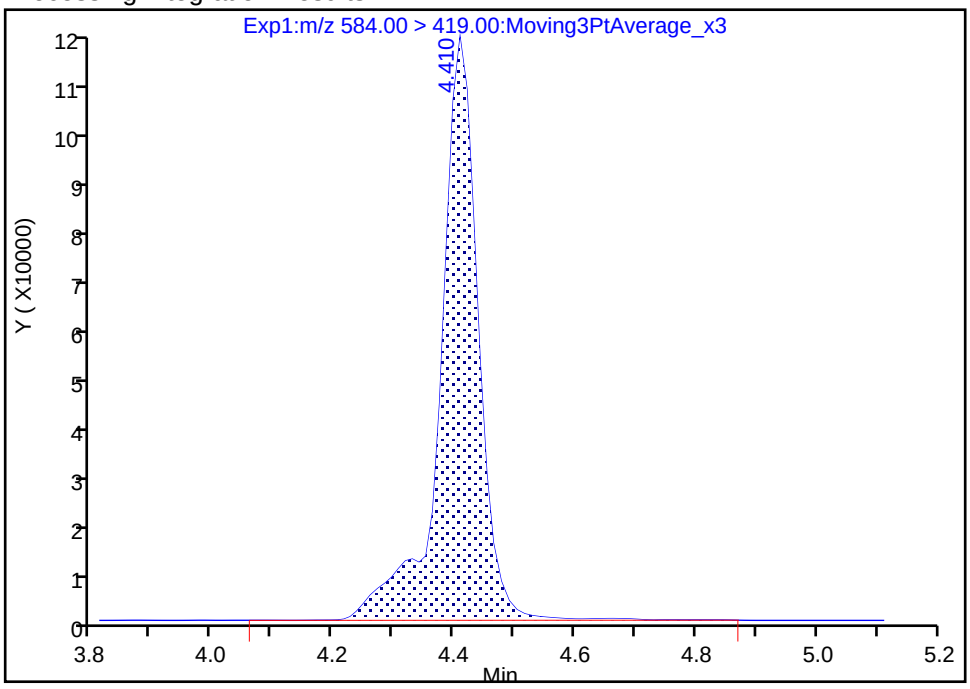
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

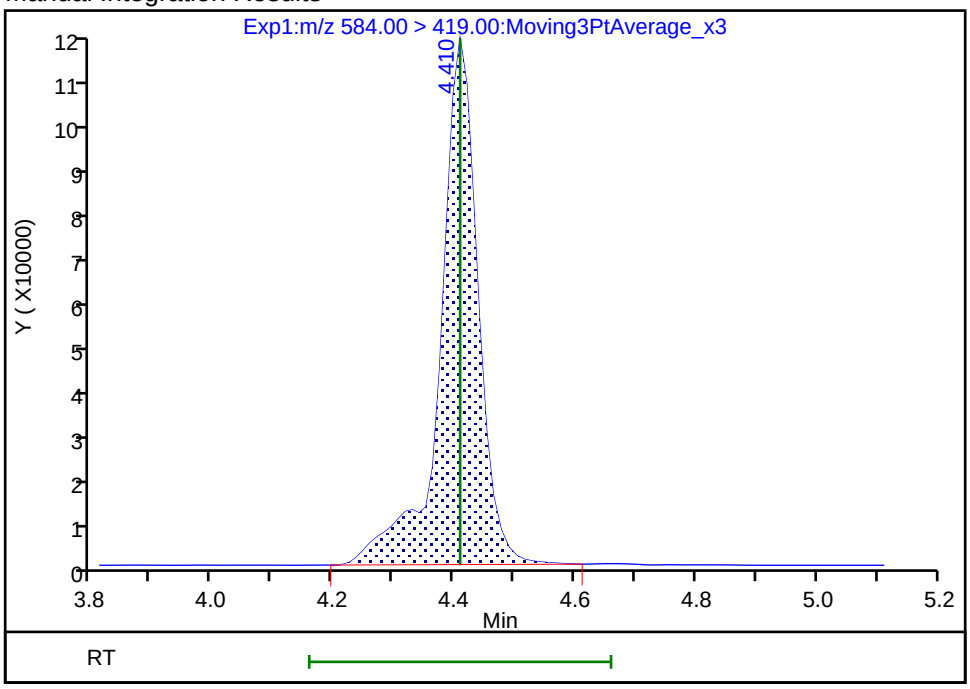
Processing Integration Results

RT: 4.41
Area: 513627
Amount: 2.388161
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 508301
Amount: 2.392560
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:35:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

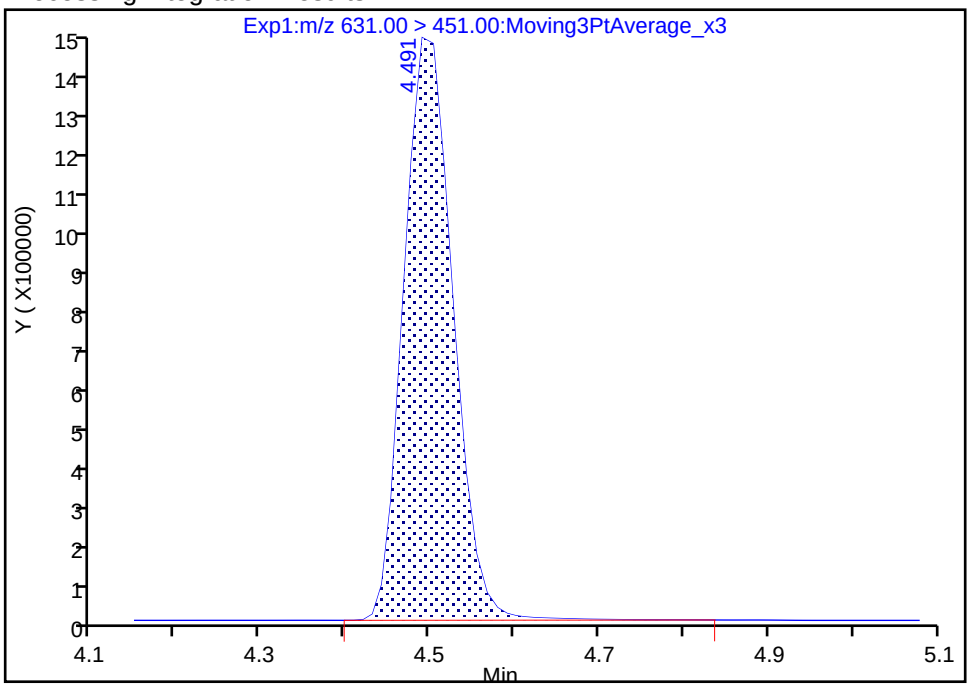
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

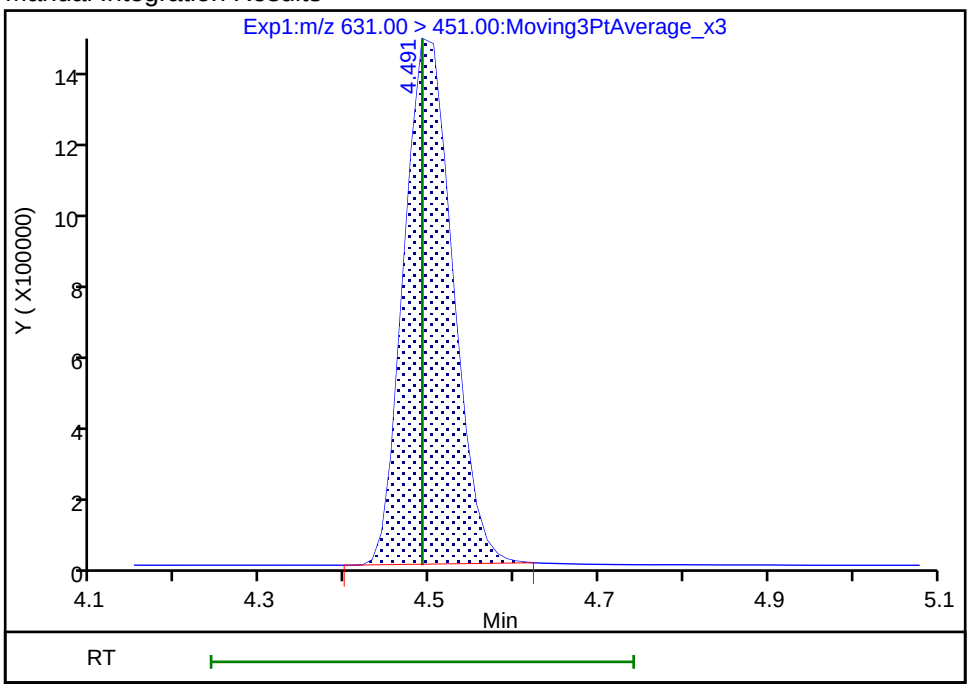
Processing Integration Results

RT: 4.49
Area: 5693428
Amount: 2.530064
Amount Units: ng/ml



Manual Integration Results

RT: 4.49
Area: 5630511
Amount: 2.502105
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:25:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

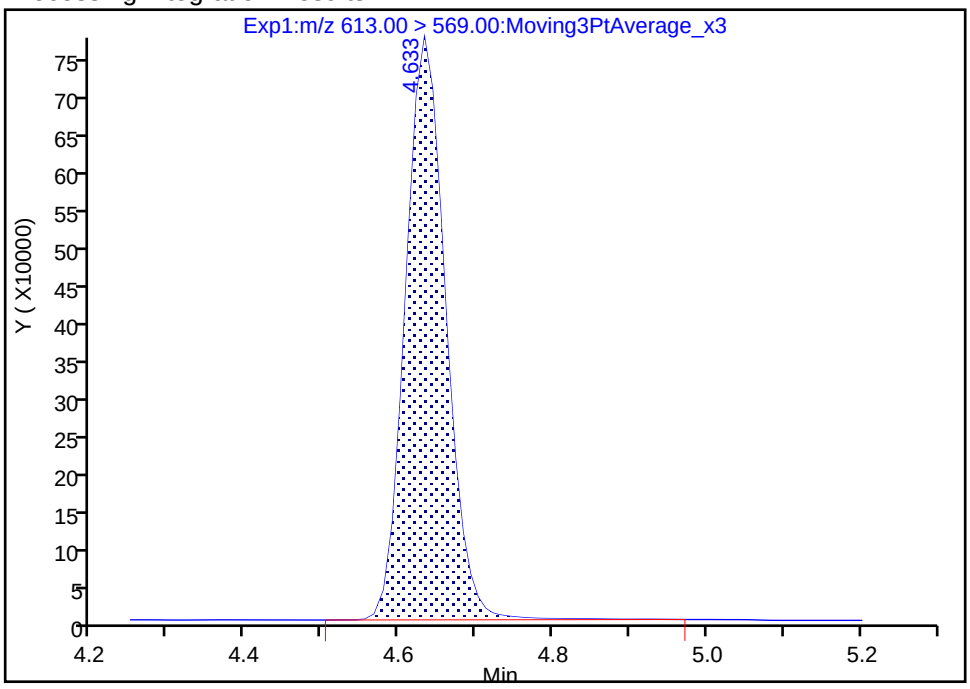
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

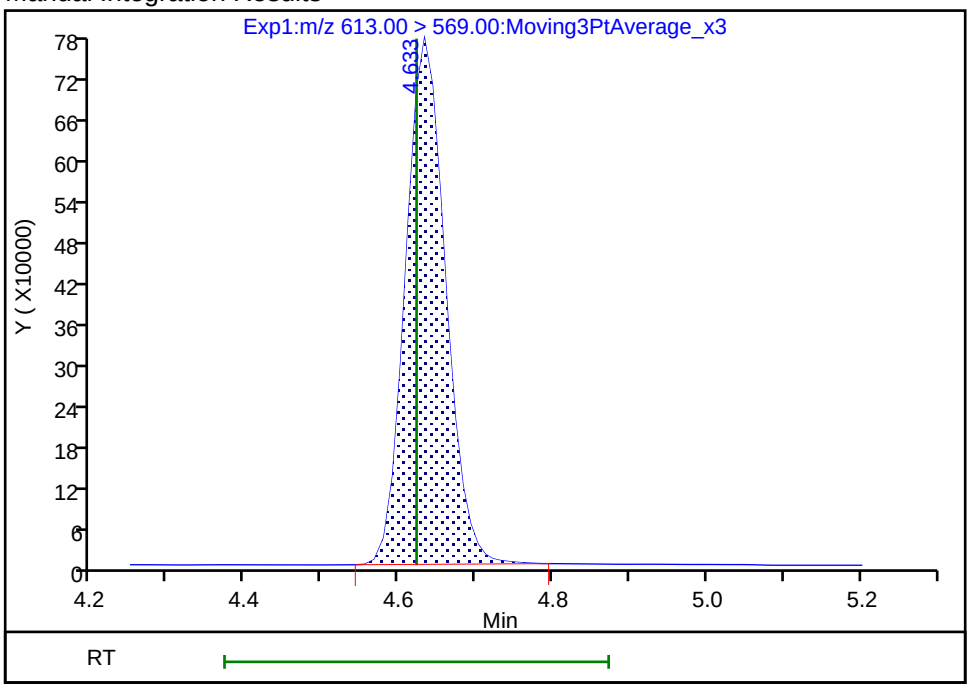
Processing Integration Results

RT: 4.63
Area: 2796793
Amount: 2.408595
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 2776638
Amount: 2.391237
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:35:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

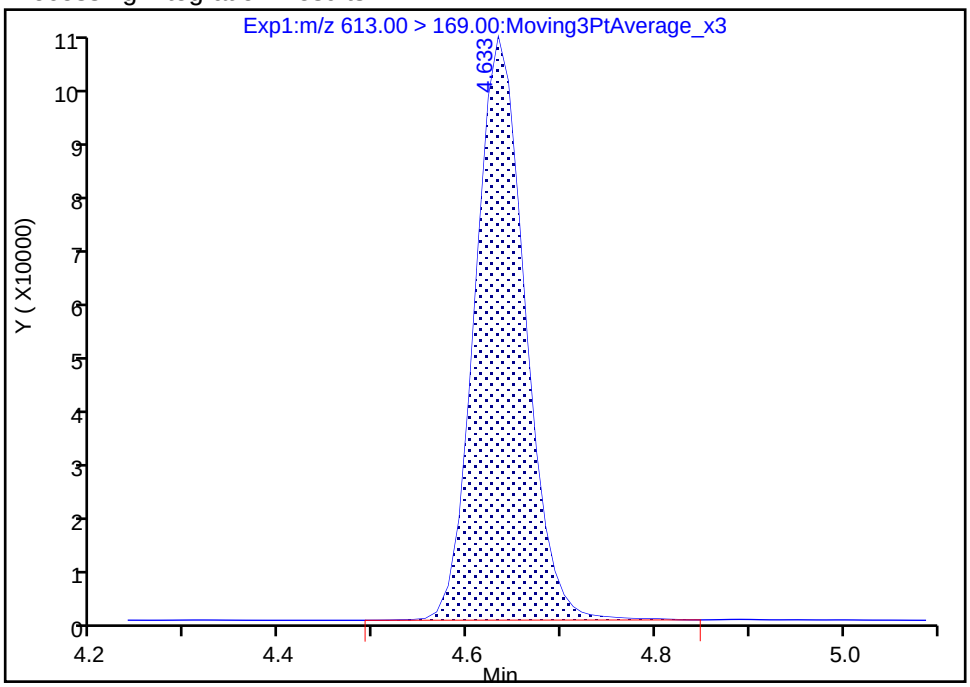
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

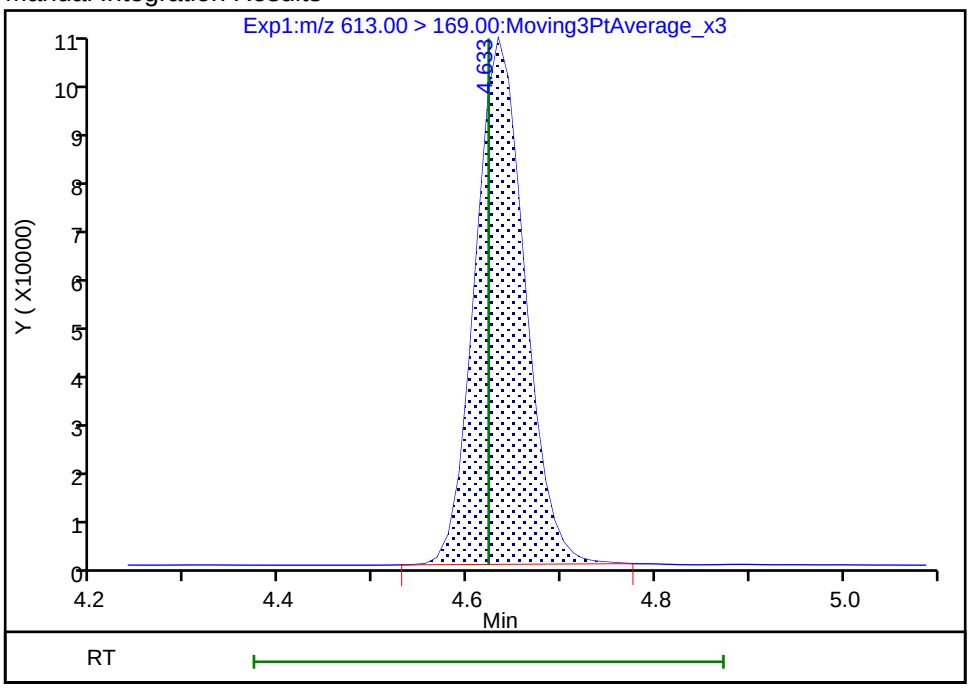
Processing Integration Results

RT: 4.63
Area: 388099
Amount: 2.408595
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 385325
Amount: 2.391237
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:35:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

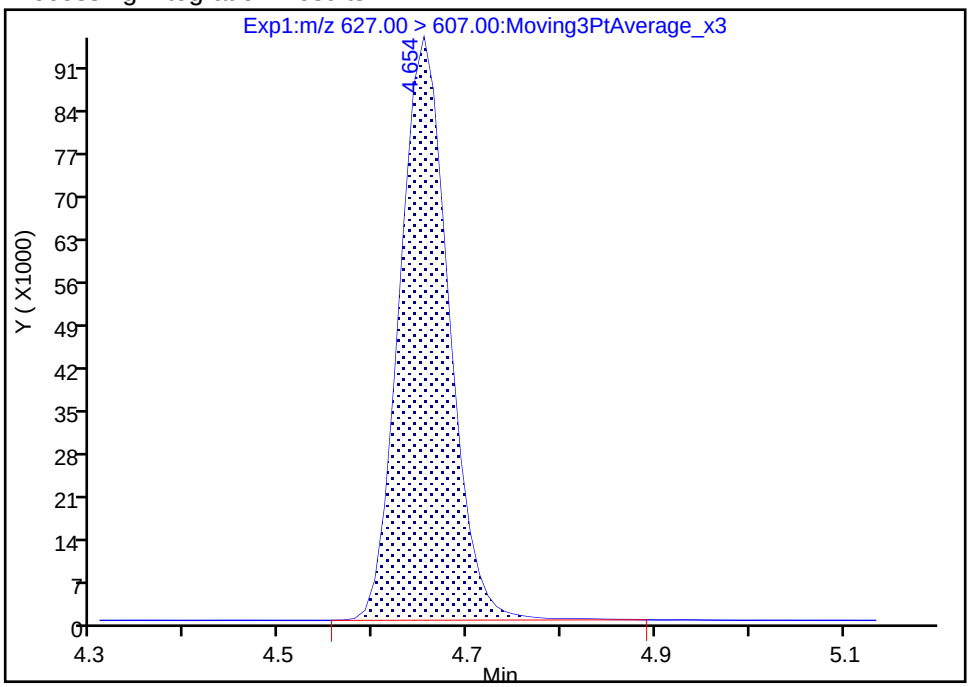
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

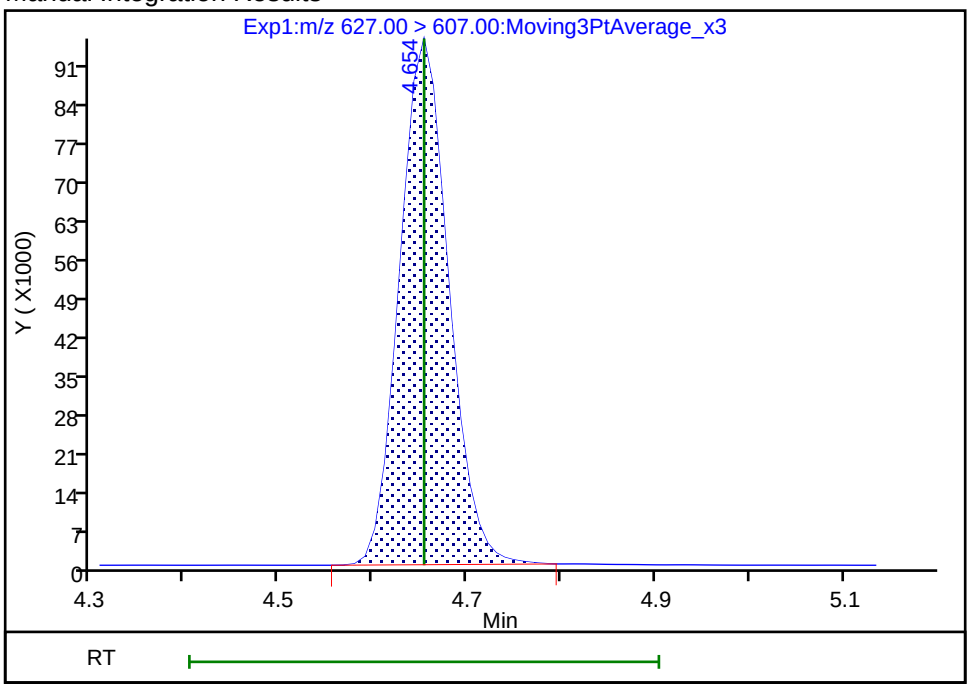
Processing Integration Results

RT: 4.65
Area: 345434
Amount: 2.535757
Amount Units: ng/ml



Manual Integration Results

RT: 4.65
Area: 343643
Amount: 2.534994
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:35:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

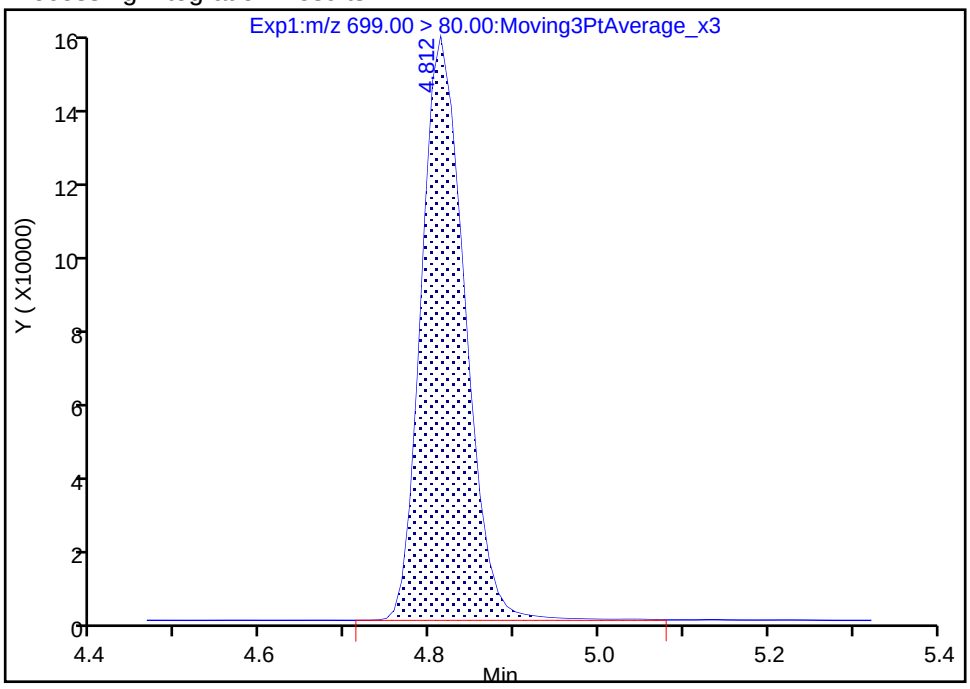
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

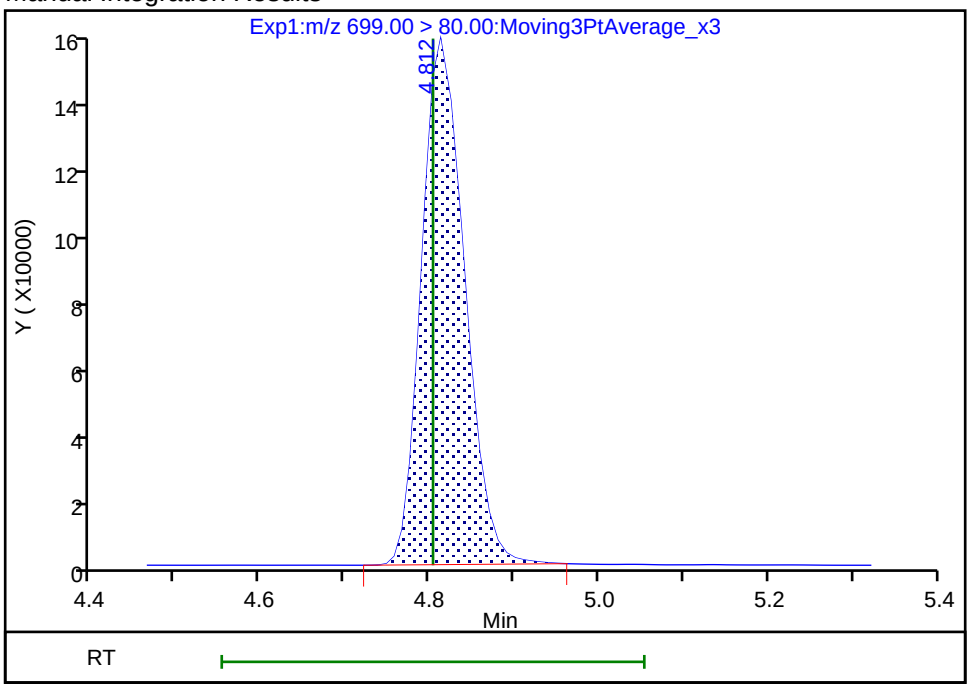
Processing Integration Results

RT: 4.81
Area: 566152
Amount: 2.191495
Amount Units: ng/ml



Manual Integration Results

RT: 4.81
Area: 560943
Amount: 2.171332
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:25:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

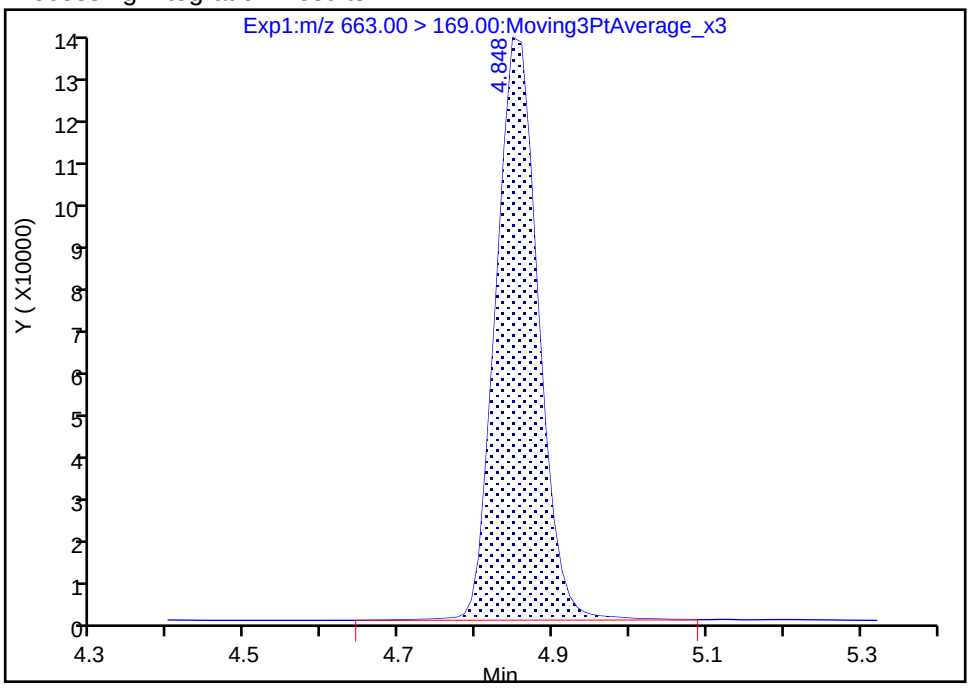
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

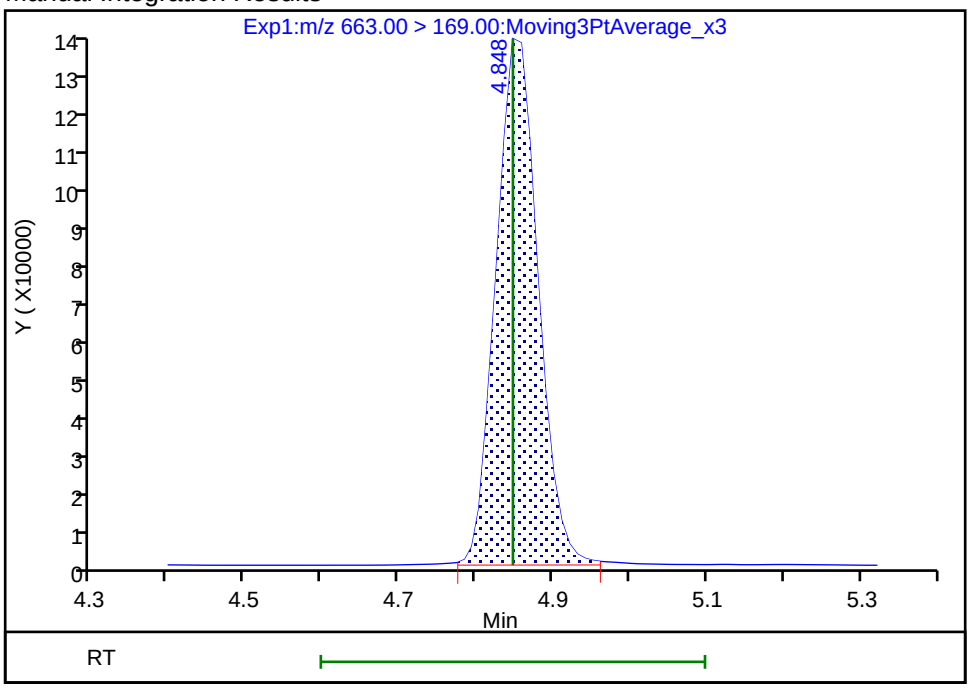
Processing Integration Results

RT: 4.85
Area: 502989
Amount: 2.678553
Amount Units: ng/ml



Manual Integration Results

RT: 4.85
Area: 499223
Amount: 2.654638
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:36:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

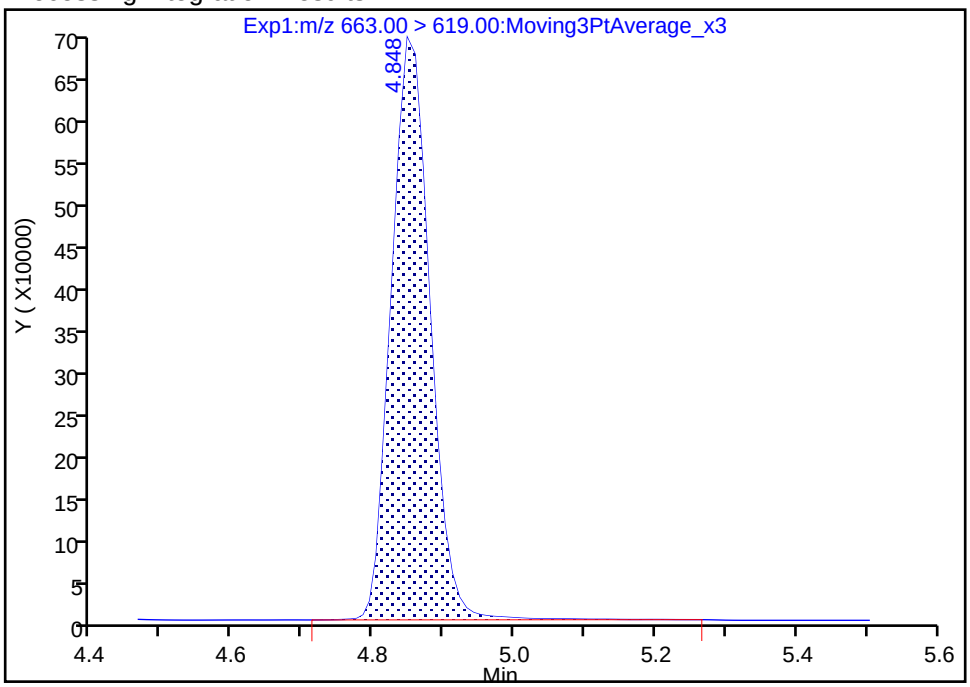
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

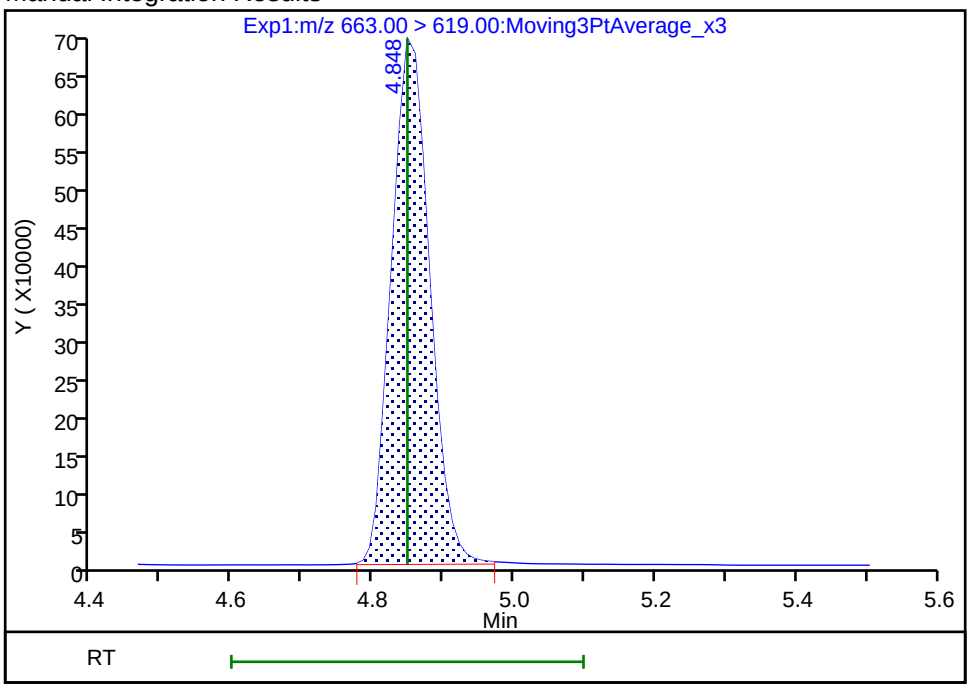
Processing Integration Results

RT: 4.85
Area: 2649003
Amount: 2.678553
Amount Units: ng/ml



Manual Integration Results

RT: 4.85
Area: 2625352
Amount: 2.654638
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:36:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

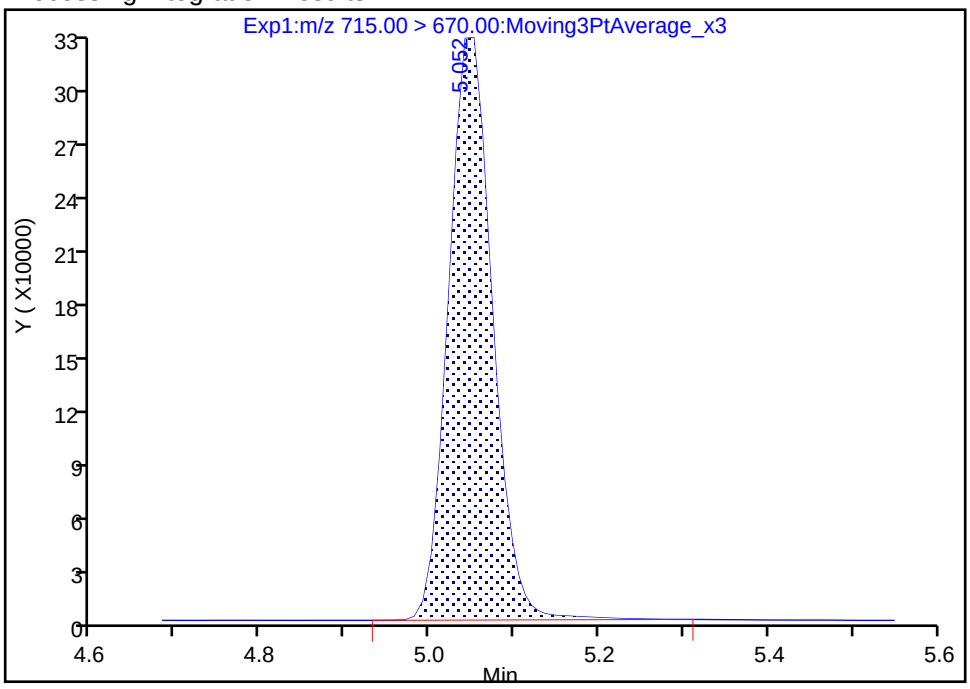
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

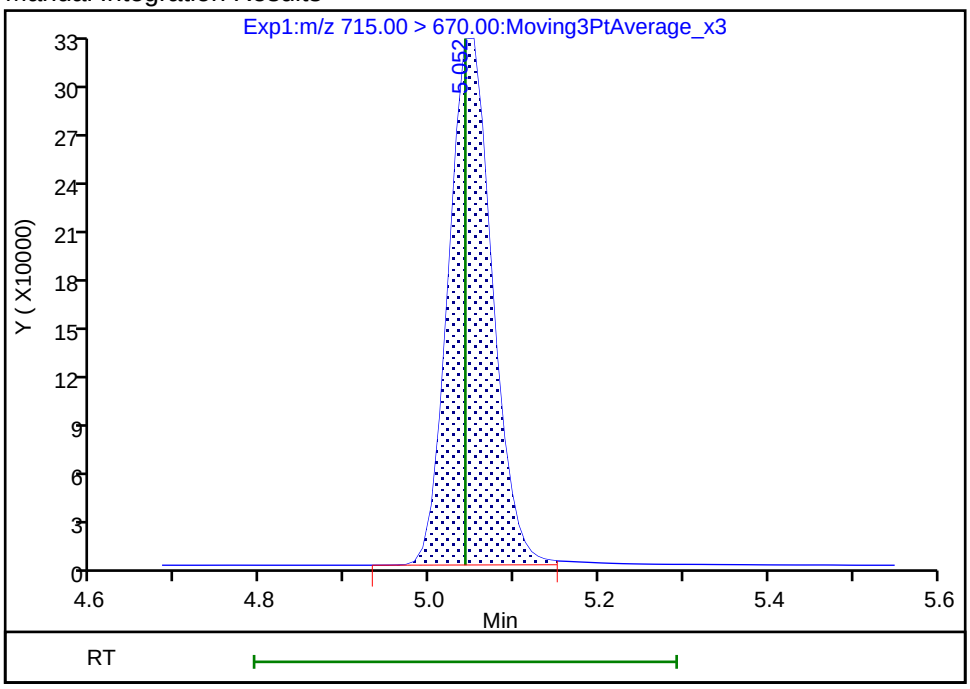
Processing Integration Results

RT: 5.05
Area: 1182534
Amount: 1.183335
Amount Units: ng/ml



Manual Integration Results

RT: 5.05
Area: 1175196
Amount: 1.184446
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:06:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

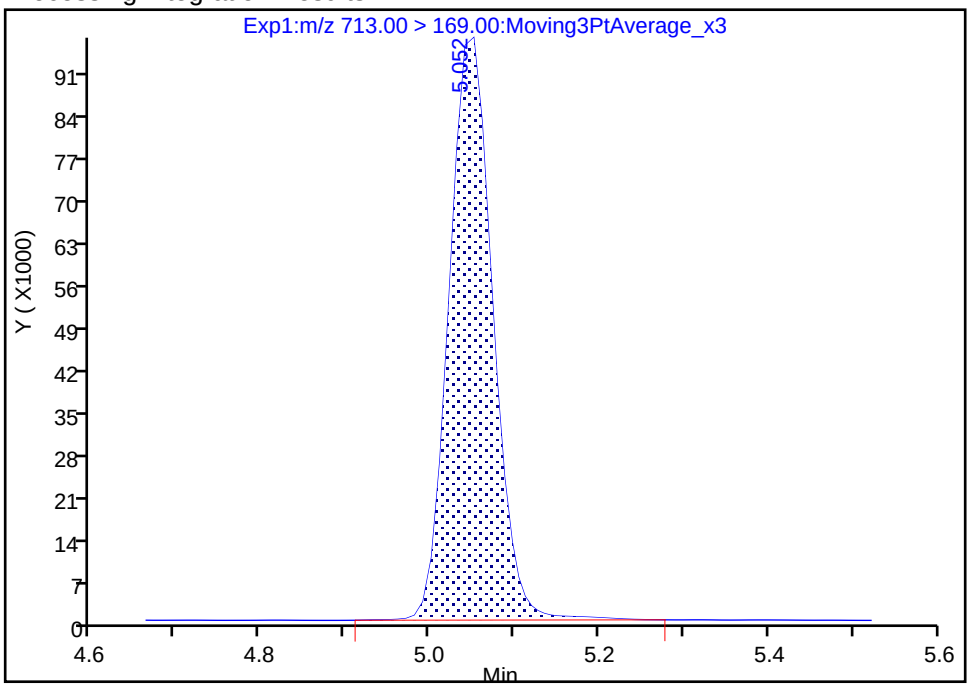
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d				
Injection Date:	13-Jun-2022 21:22:21	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	29	Worklist Smp#:	32
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

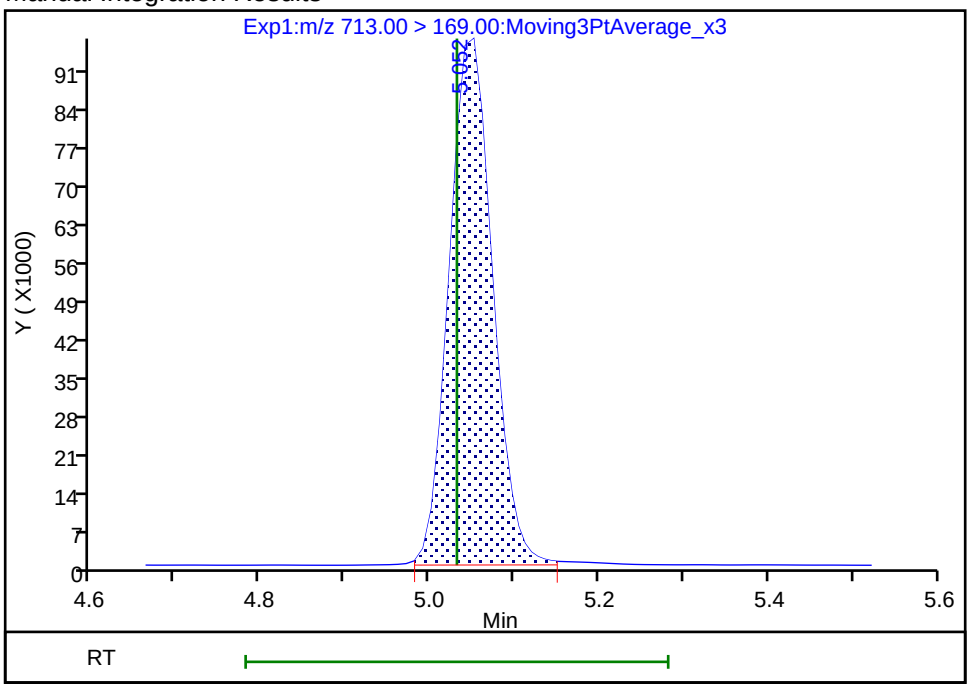
Processing Integration Results

RT: 5.05
Area: 345982
Amount: 2.381655
Amount Units: ng/ml



Manual Integration Results

RT: 5.05
Area: 343332
Amount: 2.363413
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:36:45

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

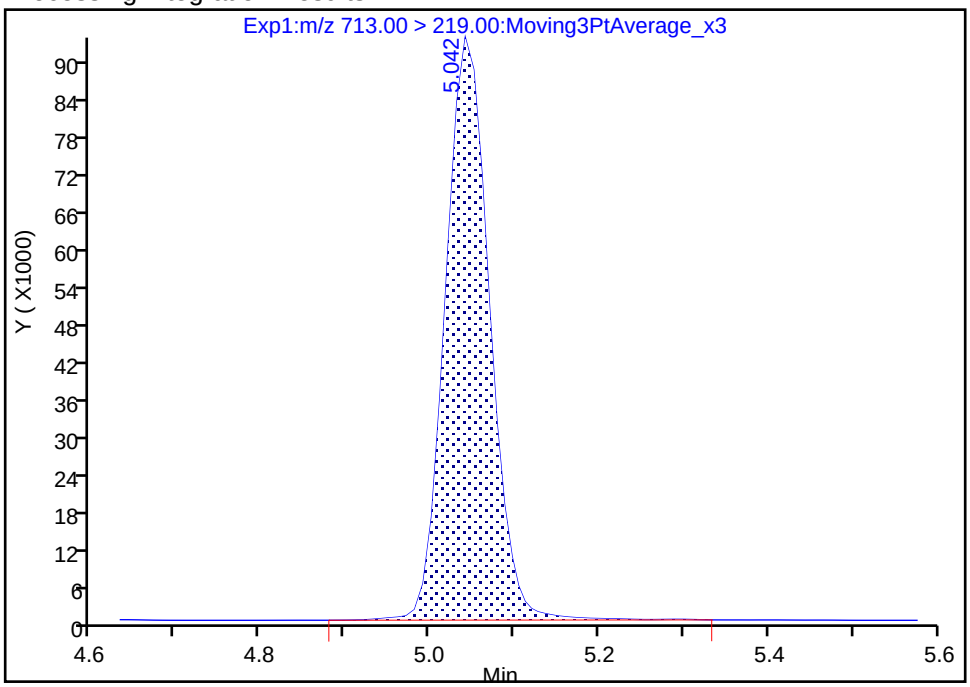
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d				
Injection Date:	13-Jun-2022 21:22:21	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	29	Worklist Smp#:	32
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

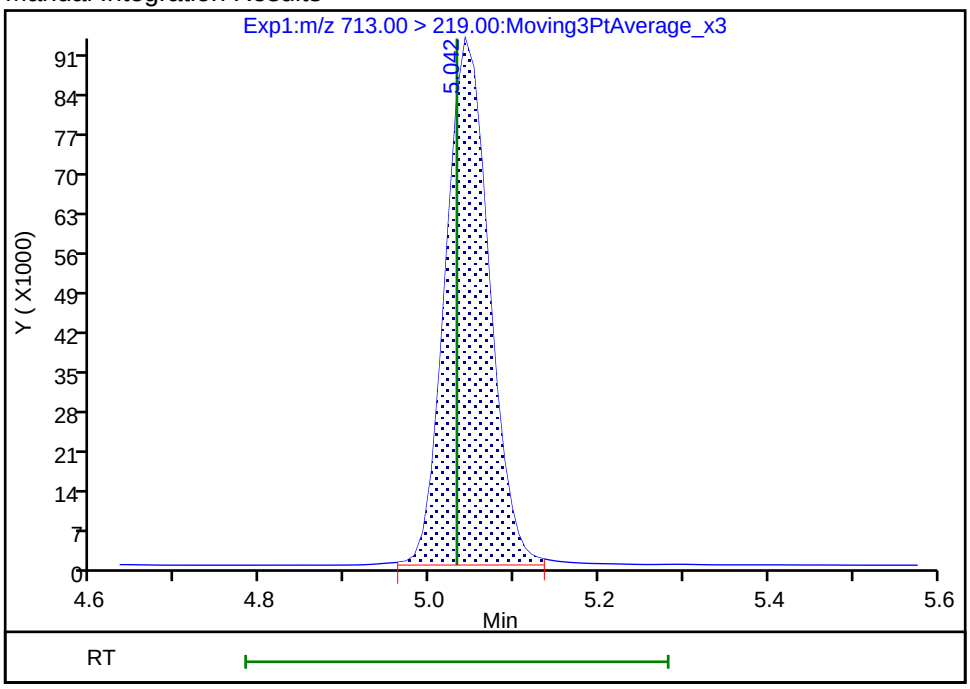
Processing Integration Results

RT: 5.04
Area: 341068
Amount: 2.381655
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 337655
Amount: 2.363413
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:36:54

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

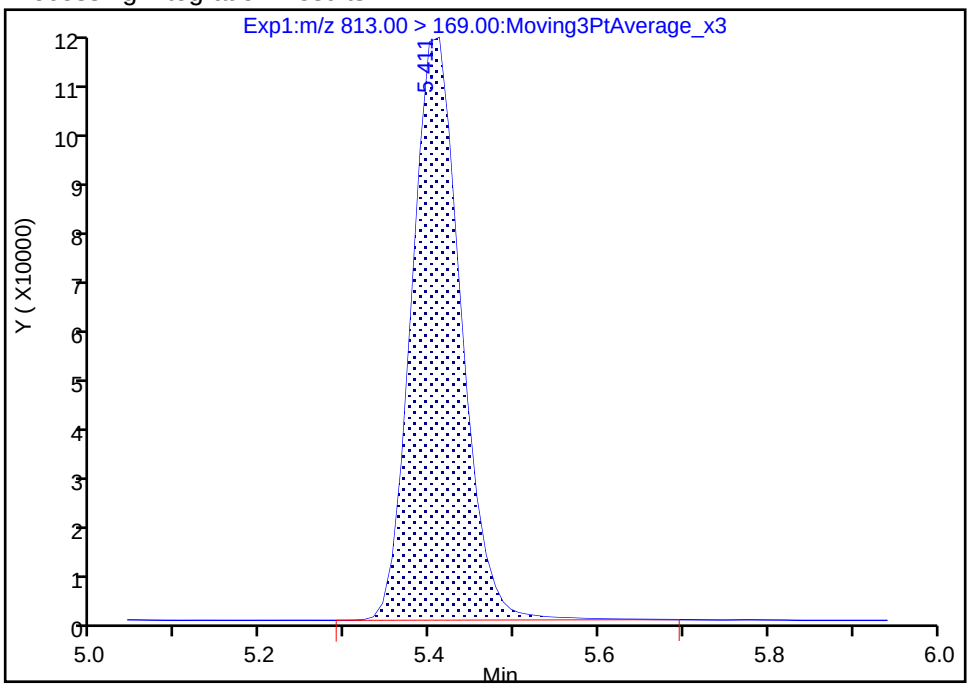
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

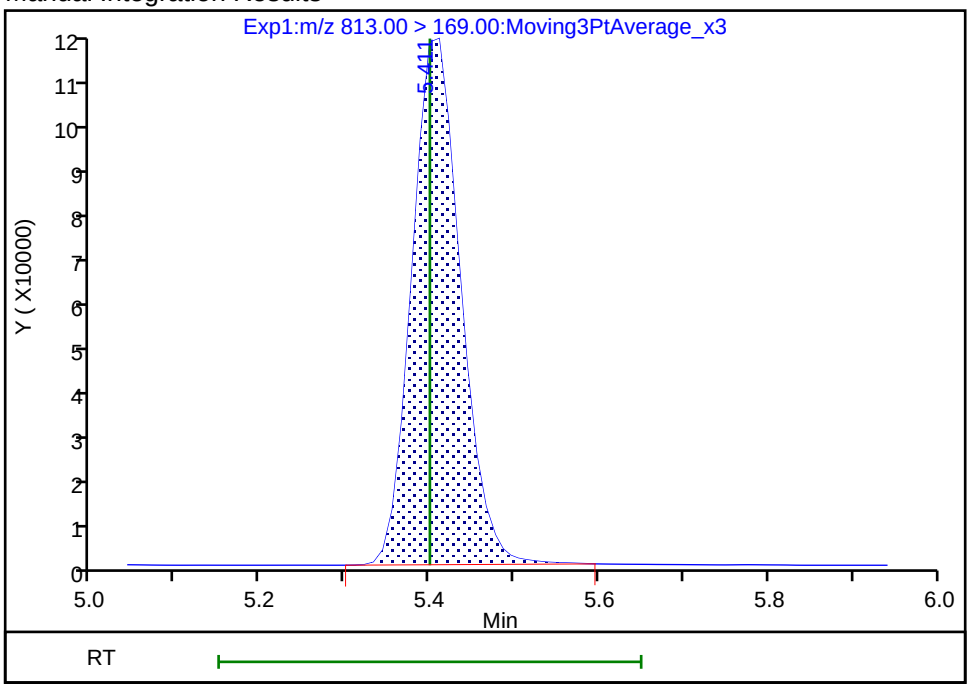
Processing Integration Results

RT: 5.41
Area: 461668
Amount: 2.592429
Amount Units: ng/ml



Manual Integration Results

RT: 5.41
Area: 459504
Amount: 2.562586
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:37:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

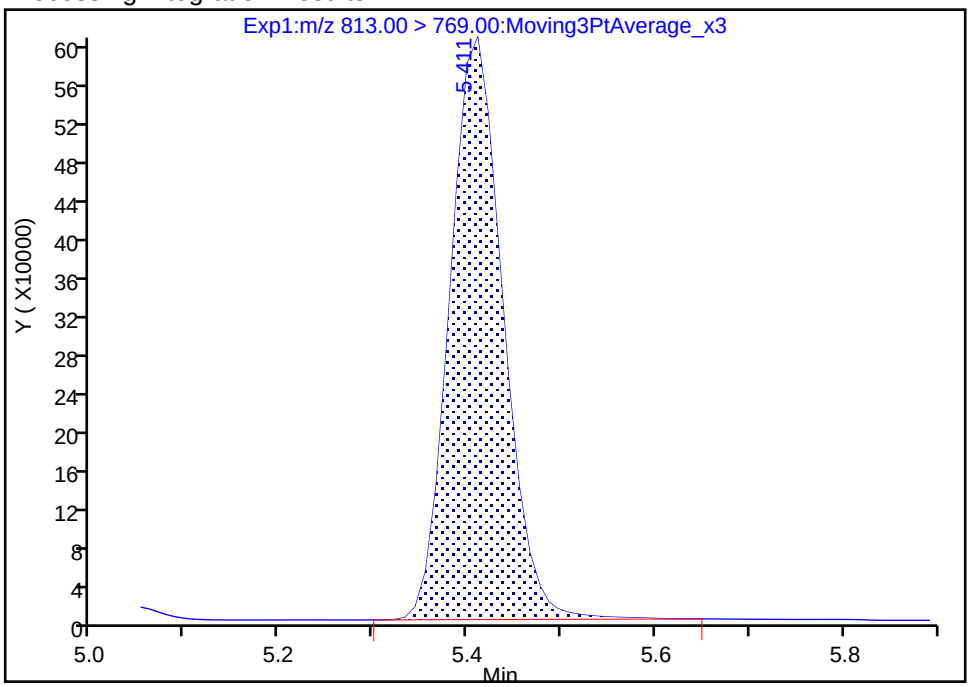
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d				
Injection Date:	13-Jun-2022 21:22:21	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	29	Worklist Smp#:	32
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

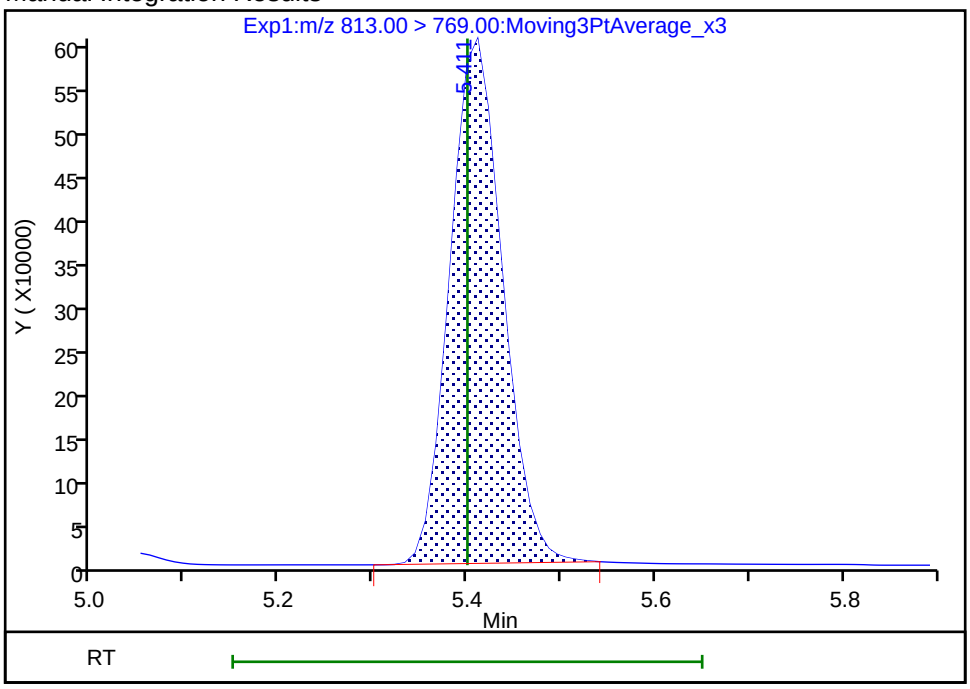
Processing Integration Results

RT: 5.41
Area: 2391550
Amount: 2.592429
Amount Units: ng/ml



Manual Integration Results

RT: 5.41
Area: 2364231
Amount: 2.562586
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:26:06

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

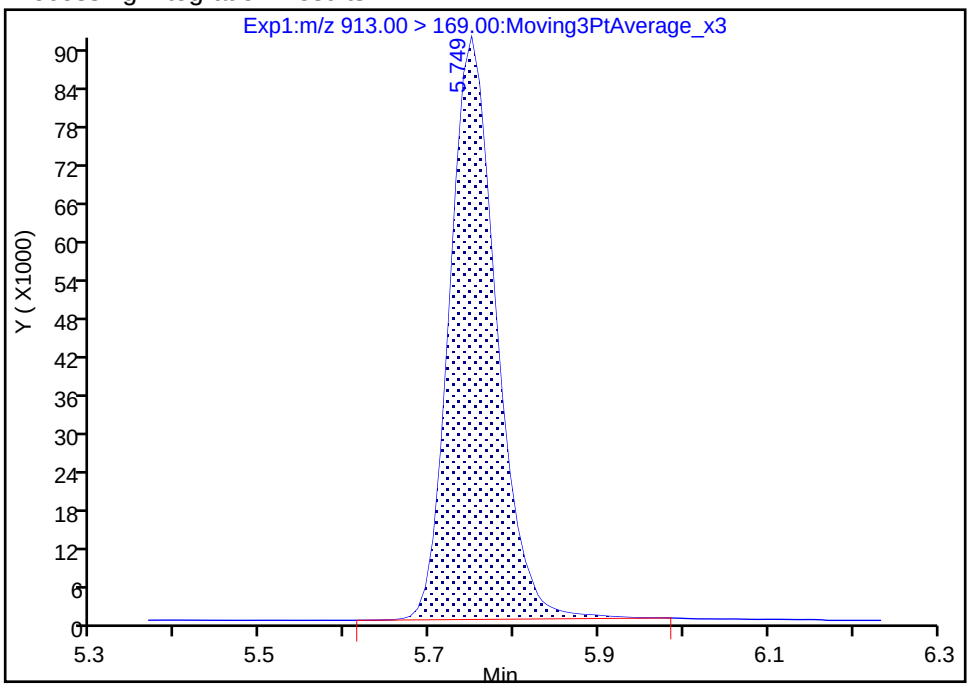
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

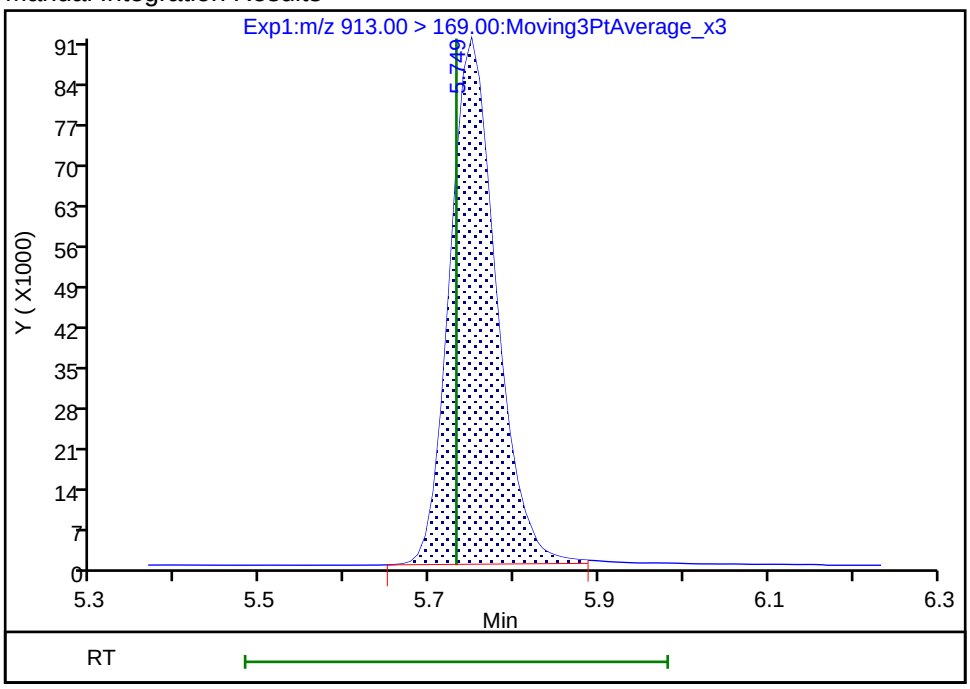
Processing Integration Results

RT: 5.75
Area: 349625
Amount: 2.626190
Amount Units: ng/ml



Manual Integration Results

RT: 5.75
Area: 347991
Amount: 2.588378
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 11:37:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

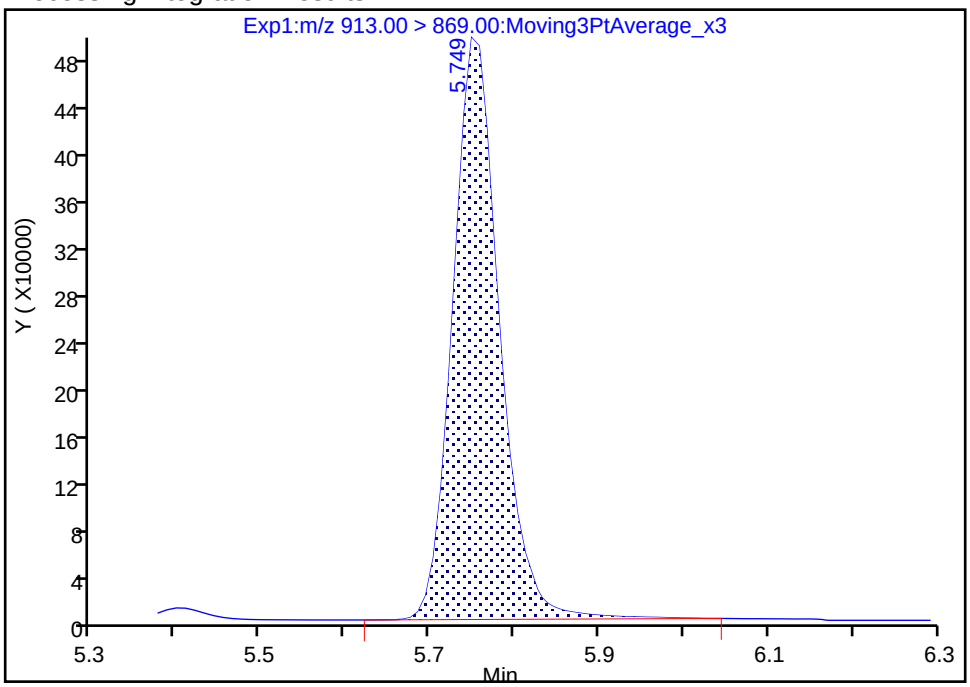
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A32.d
Injection Date: 13-Jun-2022 21:22:21 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

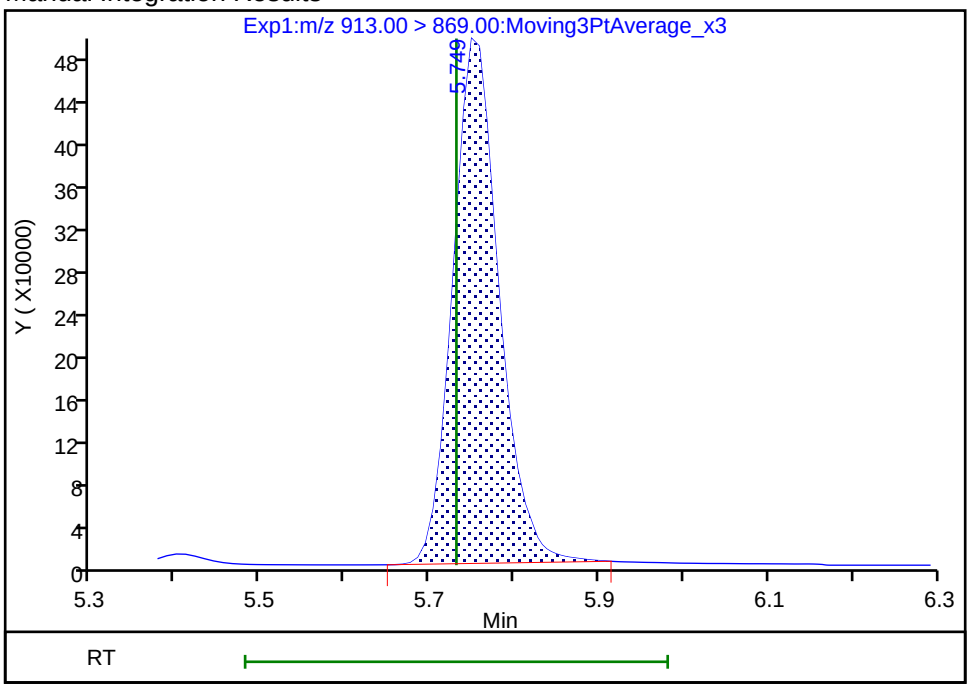
Processing Integration Results

RT: 5.75
Area: 1909724
Amount: 2.626190
Amount Units: ng/ml



Manual Integration Results

RT: 5.75
Area: 1882228
Amount: 2.588378
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:26:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: | Lab Sample ID: MB 200-180717/1-A

Matrix: Water | Lab File ID: PA220613A06.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: 3535 | Date Extracted: 06/13/2022 08:55

Sample wt/vol: 250(mL) | Date Analyzed: 06/13/2022 17:49

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 180744 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
375-22-4	Perfluorobutanoic acid (PFBA)	ND		5.0	
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		2.0	
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		2.0	
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		2.0	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		2.0	
375-95-1	Perfluorononanoic acid (PFNA)	ND		2.0	
335-76-2	Perfluorodecanoic acid (PFDA)	ND		2.0	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		2.0	
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.0	
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		2.0	
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		2.0	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		2.0	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.0	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		2.0	
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		2.0	
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0	
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0	
27619-97-2	6:2 FTS	ND		5.0	
39108-34-4	8:2 FTS	ND		2.0	

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: Lab Sample ID: MB 200-180717/1-A

Matrix: Water Lab File ID: PA220613A06.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 06/13/2022 08:55

Sample wt/vol: 250(mL) Date Analyzed: 06/13/2022 17:49

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 180744 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	79		50-150
STL00992	13C4 PFBA	113		50-150
STL01893	13C5 PFPeA	109		50-150
STL00993	13C2 PFHxA	108		50-150
STL01892	13C4 PFHpA	106		50-150
STL00990	13C4 PFOA	97		50-150
STL00995	13C5 PFNA	96		50-150
STL00996	13C2 PFDA	94		50-150
STL00997	13C2 PFUnA	91		50-150
STL00998	13C2 PFDoA	81		50-150
STL02116	13C2 PFTeDA	83		50-150
STL02337	13C3 PFBS	98		50-150
STL00994	18O2 PFHxS	91		50-150
STL00991	13C4 PFOS	87		50-150
STL02118	d3-NMeFOSAA	110		50-150
STL02117	d5-NEtFOSAA	110		50-150
STL02279	M2-6:2 FTS	90		50-150
STL02280	M2-8:2 FTS	92		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Lims ID: MB 200-180717/1-A
Client ID:
Sample Type: MB
Inject. Date: 13-Jun-2022 17:49:53 ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB 200-180717/1-A
Misc. Info.: 200-0051257-006 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 14-Jun-2022 14:34:58 Calib Date: 05-May-2022 15:54:29
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1636

First Level Reviewer: khanphomeea Date: 14-Jun-2022 09:56:04
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.085	2.085	0.0	0.599	2102962	1.41		113	9638	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.093	2.093	0.0	1.004	11788	0.007425			1.4	M
D 3 13C5 PFPeA										M
267.90 > 223.00	2.400	2.400	0.0	0.689	1556019	1.36		109	2836	M
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.400	2.400	0.0	1.000	4824	0.003802			0.2	M
D 47 13C3 PFBS										
301.90 > 80.00	2.413	2.427	-0.014	0.693	1887649	1.14		98.2	333321	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.413	2.427	-0.014	1.000	6810	0.003848	Target=2.15		4.4	
298.90 > 99.00	2.413	2.427	-0.014	1.000	3350		2.03(1.07-3.22)		2.4	M
D 60 M2-4:2 FTS										
329.00 > 81.00	2.713	2.725	-0.012	0.779	142725	1.04		89.4	119	
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.713	2.725	-0.012	1.000	110	0.000358			2.7	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.750	2.762	-0.012	0.790	1568620	1.35		108	5015	
70 Perfluoropentanesulfonic acid										RM
349.00 > 80.00	2.762	2.762	0.0	0.885	453	0.000311	Target=2.96		1.0	RM
349.00 > 99.00	2.774	2.762	0.012	0.889	920		0.49(1.48-4.44)		1.7	M
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.871	2.871	0.0	0.824	263506	1.32		106	1888	
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.871	2.871	0.0	1.000	126	0.000548			2.4	M
D 11 18O2 PFHxS										M
403.00 > 84.00	3.121	3.121	0.0	0.896	1395525	1.08		91.3	2199	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.121	3.121	0.0	1.000	5913	0.004533	Target=3.53		19.6	M
399.00 > 99.00	3.121	3.121	0.0	1.000	1420		4.16(1.76-5.29)		2.5	M
D 9 13C4 PFHpA										M
367.00 > 322.00	3.121	3.132	-0.011	0.896	1671306	1.33		106	1751	M
10 Perfluoroheptanoic acid										RM
363.00 > 319.00	3.121	3.132	-0.011	1.000	1725	0.001277	Target=3.75		0.6	RM
363.00 > 169.00	3.121	3.132	-0.011	1.000	246		7.01(1.87-5.62)		0.5	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.474	3.474	0.0	0.997	225760	1.07		90.1	523	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.474	3.474	0.0	1.000	3432	-0.0157			2.4	
* 62 13C2 PFOA										M
415.00 > 370.00	3.482	3.482	0.0		1756224	1.25			3872	M
D 14 13C4 PFOA										
417.00 > 372.00	3.482	3.482	0.0	1.000	1609042	1.22		97.3	2981	
15 Perfluorooctanoic acid										RM
413.00 > 369.00	3.474	3.482	-0.008	0.997	10869	0.007539	Target=2.68		0.6	RM
413.00 > 169.00	3.491	3.482	0.009	1.002	1705		6.37(1.34-4.02)		3.2	M
D 18 13C4 PFOS										
503.00 > 80.00	3.802	3.802	0.0	1.092	1054776	1.04		86.9	3420	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.792	3.802	-0.010	0.997	2636	0.002797	Target=4.47		1.8	M
499.00 > 99.00	3.783	3.802	-0.019	0.995	868		3.04(2.24-6.71)		2.8	M
D 19 13C5 PFNA										M
468.00 > 423.00	3.822	3.822	0.0	1.098	1717874	1.20		95.6	1956	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.969	3.969	0.0	1.044	1545	0.000992			7.1	M
68 Perfluorononanesulfonic acid										RM
549.00 > 80.00	4.081	4.093	-0.012	1.073	223	0.000312	Target=2.49		2.7	RM
549.00 > 99.00	4.081	4.093	-0.012	1.073	209		1.07(1.24-3.73)		1.7	M
D 23 13C2 PFDA										M
515.00 > 470.00	4.127	4.127	0.0	1.185	1628603	1.18		94.1	2501	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.127	4.127	0.0	1.000	488	0.001885			9.8	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.127	4.127	0.0	1.185	278592	1.10		91.8	1072	
D 21 13C8 FOSA										M
506.00 > 78.00	4.196	4.195	0.001	1.205	1508615	0.99		79.3	1939	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.184	4.195	-0.011	0.997	1252	0.001022			4.1	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.261	4.261	0.0	1.224	252609	1.38		110	1070	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.261	4.273	-0.012	1.000	343	0.001866			1.5	M
D 30 13C2 PFUnA										M
565.00 > 520.00	4.387	4.387	0.0	1.260	1267048	1.14		91.2	2047	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.398	4.398	0.0	1.263	246776	1.38		110	770	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.387	4.410	-0.023	0.997	282	0.001523			2.6	M
66 11-Chloroeicosafluoro-3-oxaundec										M
631.00 > 451.00	4.478	4.491	-0.013	1.178	1194	0.000554			4.2	M
D 36 13C2 PFDoA										M
615.00 > 570.00	4.622	4.633	-0.011	1.327	1202608	1.01		81.1	1477	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.643	4.654	-0.011	1.125	167	0.001297			3.6	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.042	5.032	0.010	1.002	332	0.002673	Target=0.96		6.8	M
713.00 > 219.00	5.032	5.032	0.0	1.000	315		1.05(0.48-1.44)		7.3	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.032	5.042	-0.010	1.445	1004851	1.04		82.9	1616	M
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.389	5.389	0.0	1.547	1105509	1.10		88.0	1633	M
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.389	5.400	-0.011	1.000	10158	-0.007005	Target=4.90		2.7	
813.00 > 169.00	5.389	5.400	-0.011	1.000	1930		5.26(2.45-7.36)		30.5	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.731	5.731	0.0	1.064	881	0.001430	Target=4.81		0.3	M
913.00 > 169.00	5.722	5.731	-0.009	1.062	197		4.47(2.40-7.21)		3.0	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

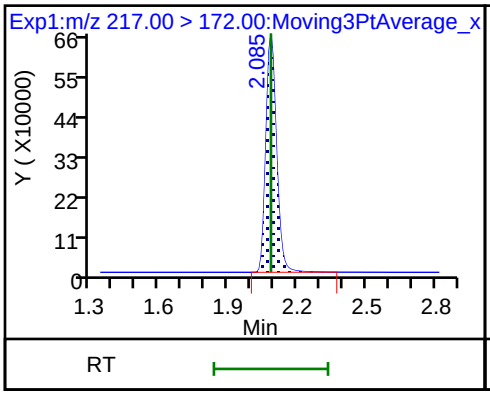
M - Manually Integrated

Report Date: 14-Jun-2022 14:35:06 Chrom Revision: 2.3 18-May-2022 20:00:04

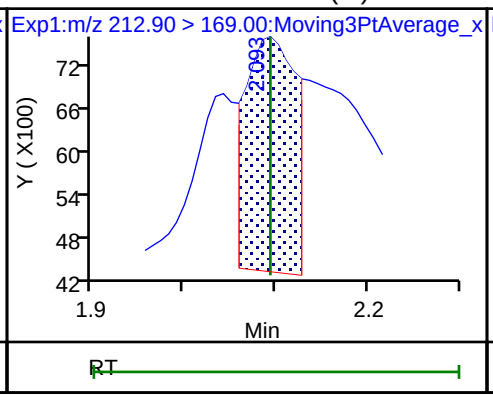
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL

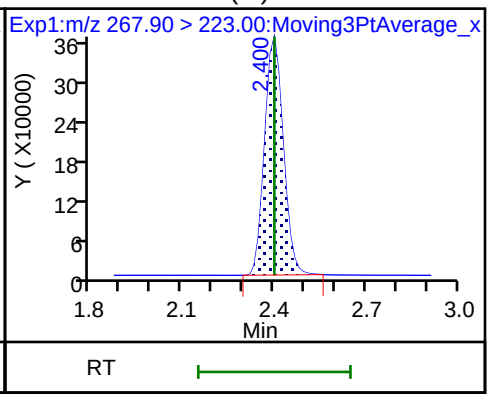
D 1 13C4 PFBA



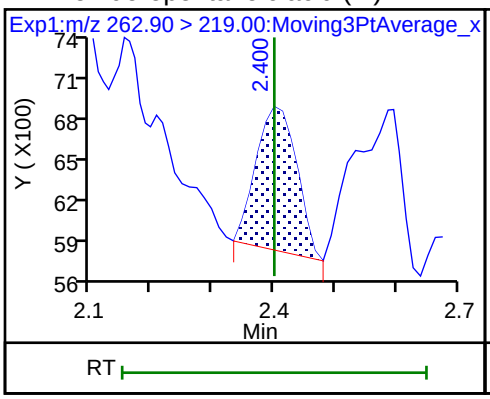
2 Perfluorobutanoic acid (M)



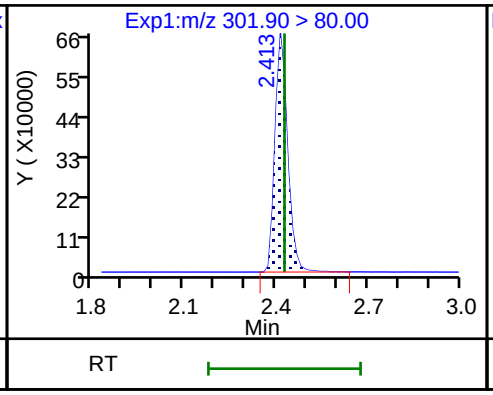
D 3 13C5 PFPeA (M)



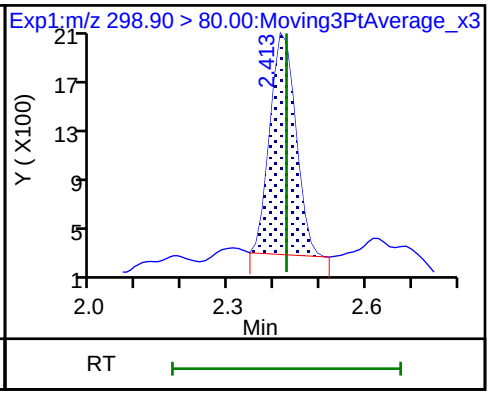
4 Perfluoropentanoic acid (M)



D 47 13C3 PFBS



5 Perfluorobutanesulfonic acid



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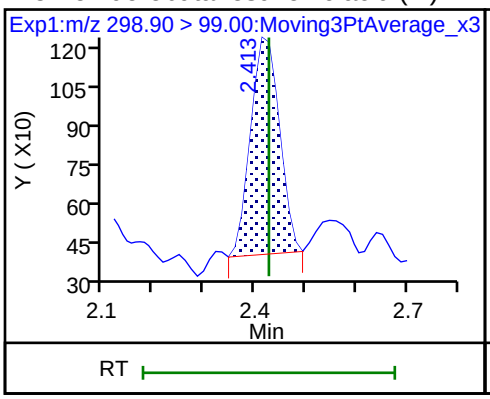
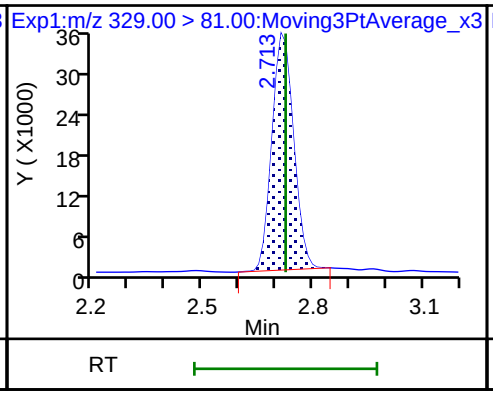
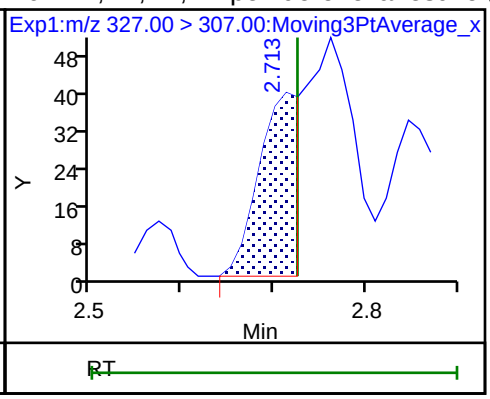


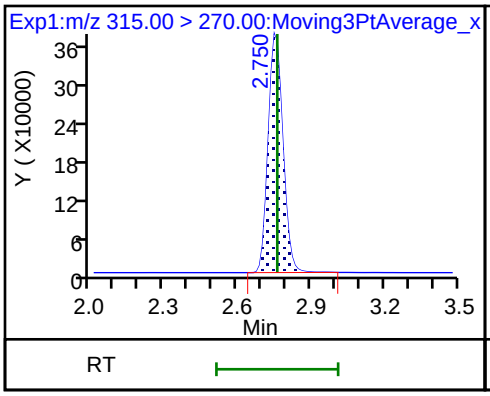
D 60 M2-4:2 FTS



61 1H,1H,2H,2H-perfluorohexanesulfo (M)



D 7 13C2 PFHxA



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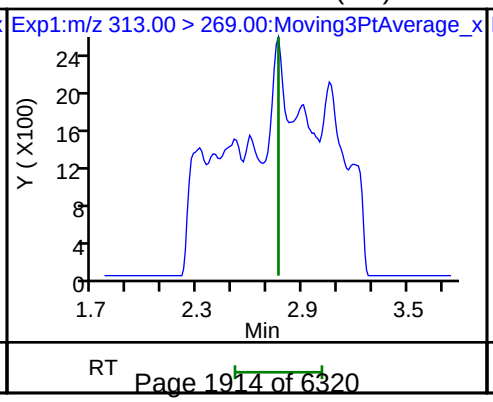
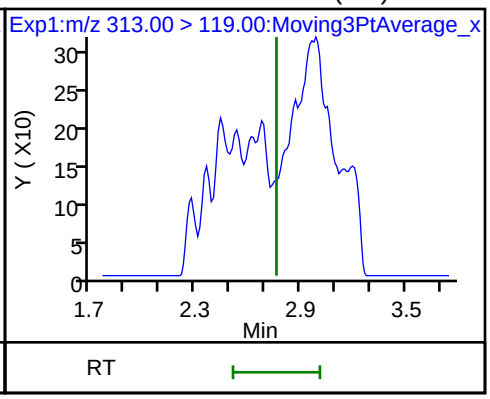
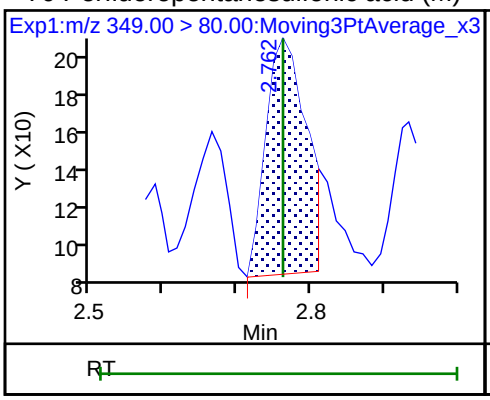


6 Perfluorohexanoic acid (ND)



70 Perfluoropentanesulfonic acid (M)



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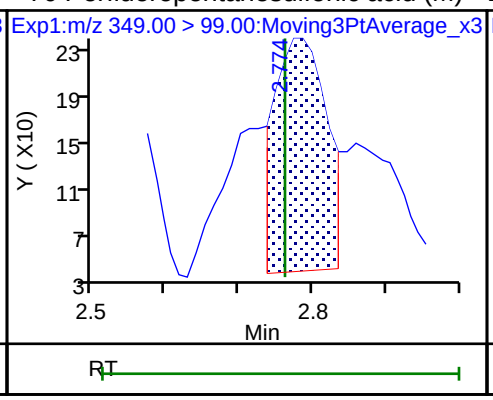
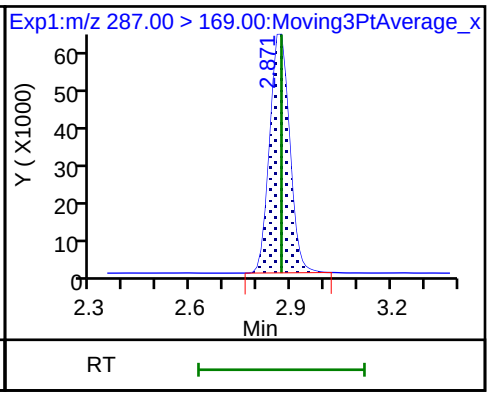
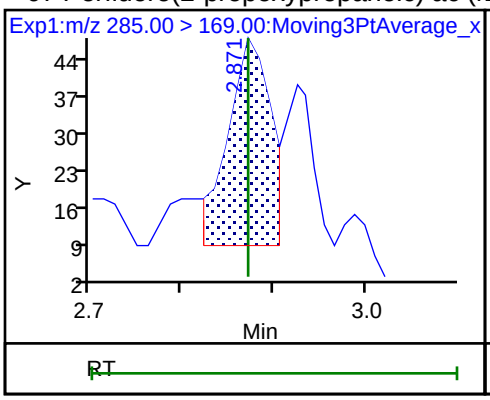


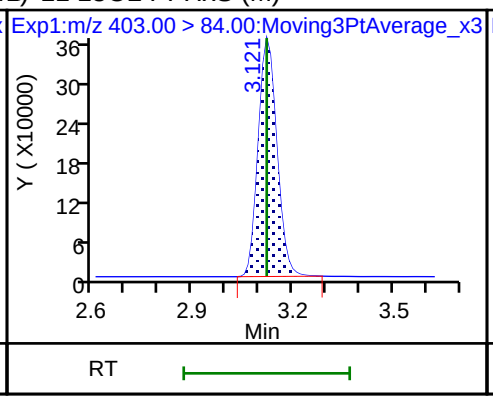
D 64 13C3 HFPO-DA



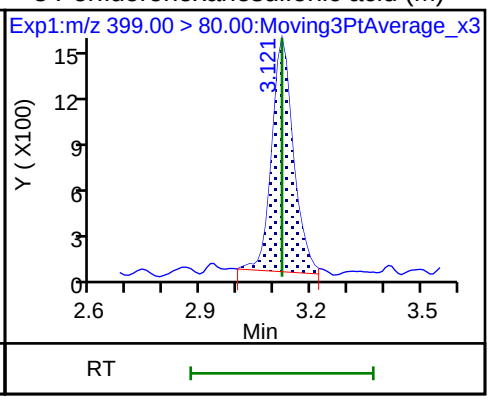
67 Perfluoro(2-propoxypropanoic) ac (M)



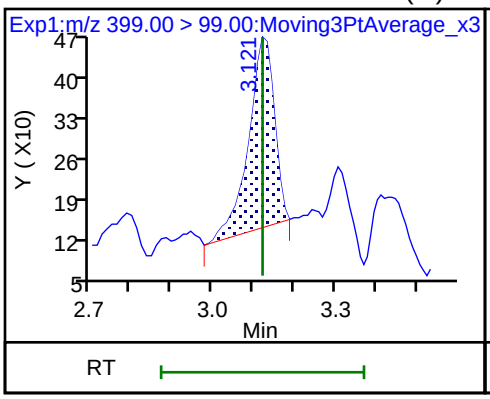
D 11 18O2 PFHxS (M)



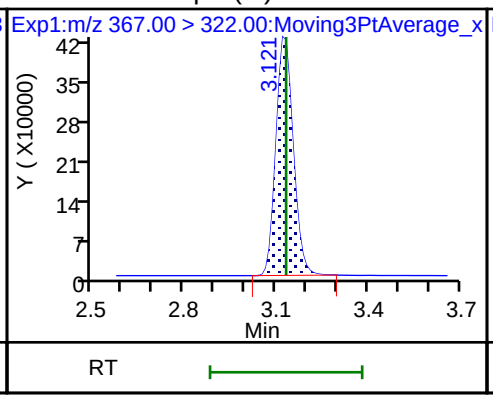
8 Perfluorohexanesulfonic acid (M)



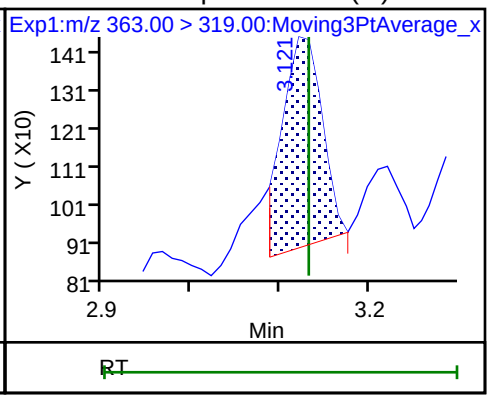
8 Perfluorohexanesulfonic acid (M)



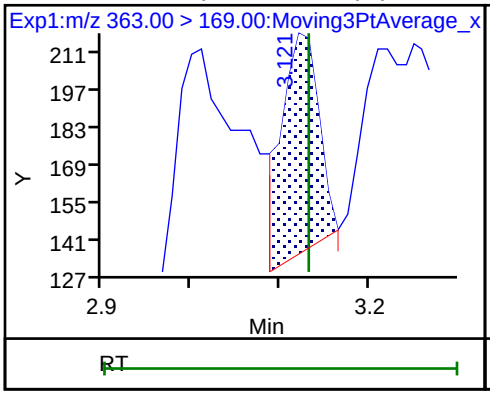
D 9 13C4 PFHpA (M)



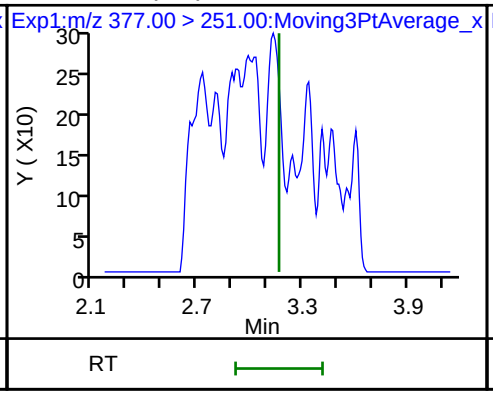
10 Perfluoroheptanoic acid (M)



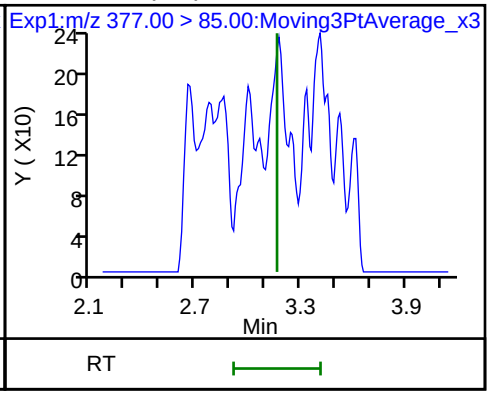
10 Perfluoroheptanoic acid (M)



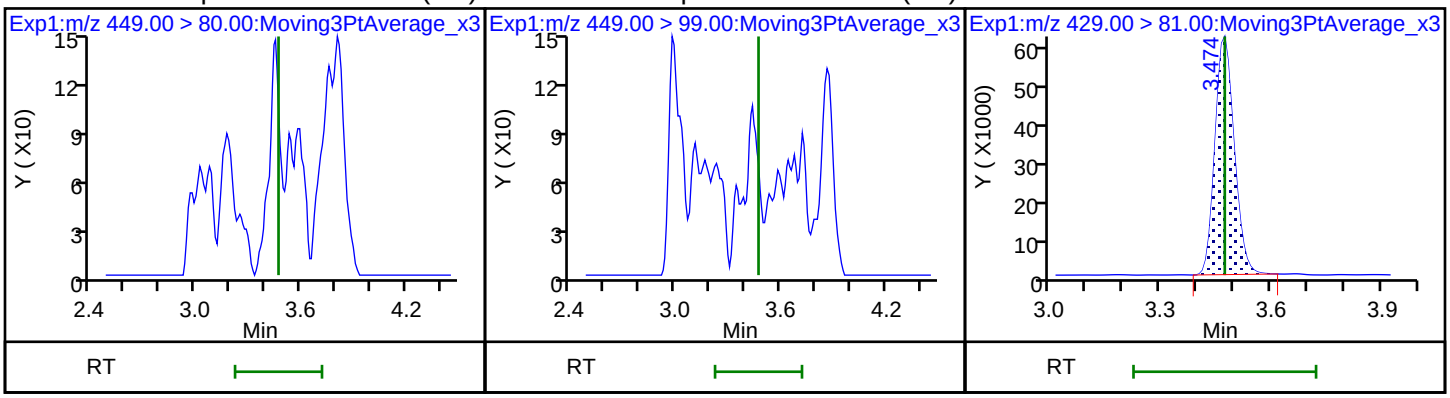
77 DONA (ND)



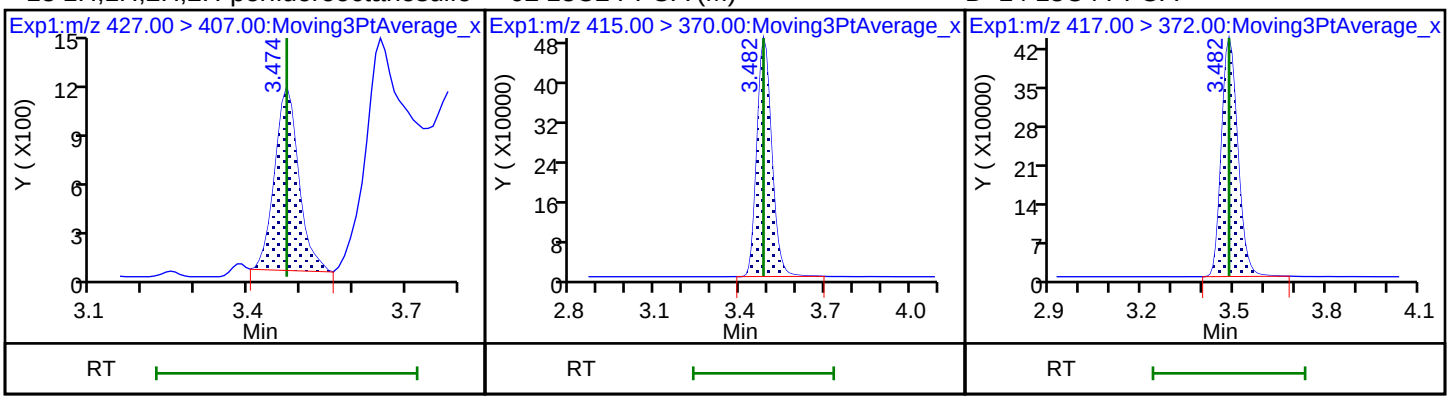
77 DONA (ND)



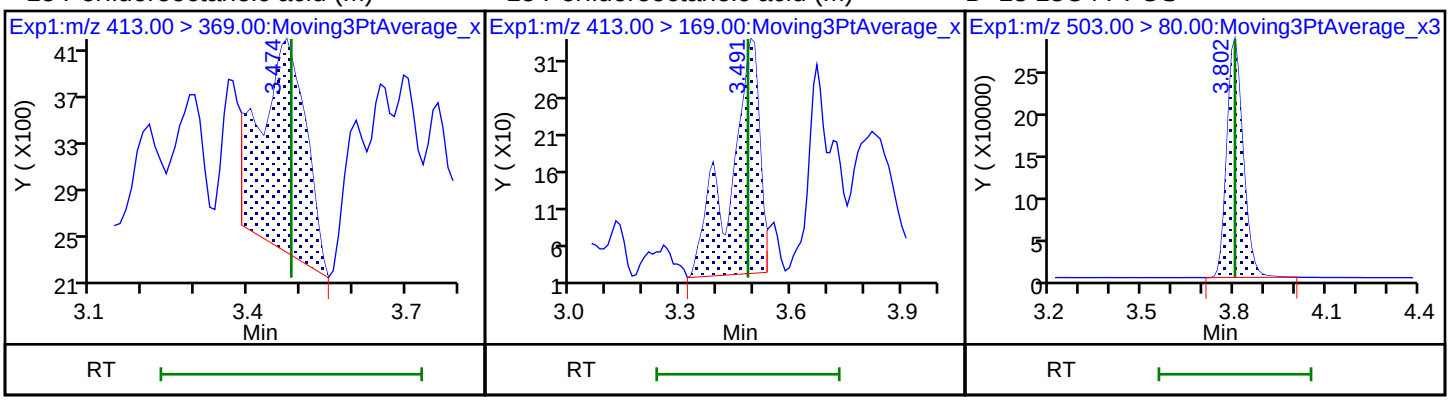
16 Perfluoroheptanesulfonic acid (ND) 16 Perfluoroheptanesulfonic acid (ND) D 12 M2-6:2 FTS



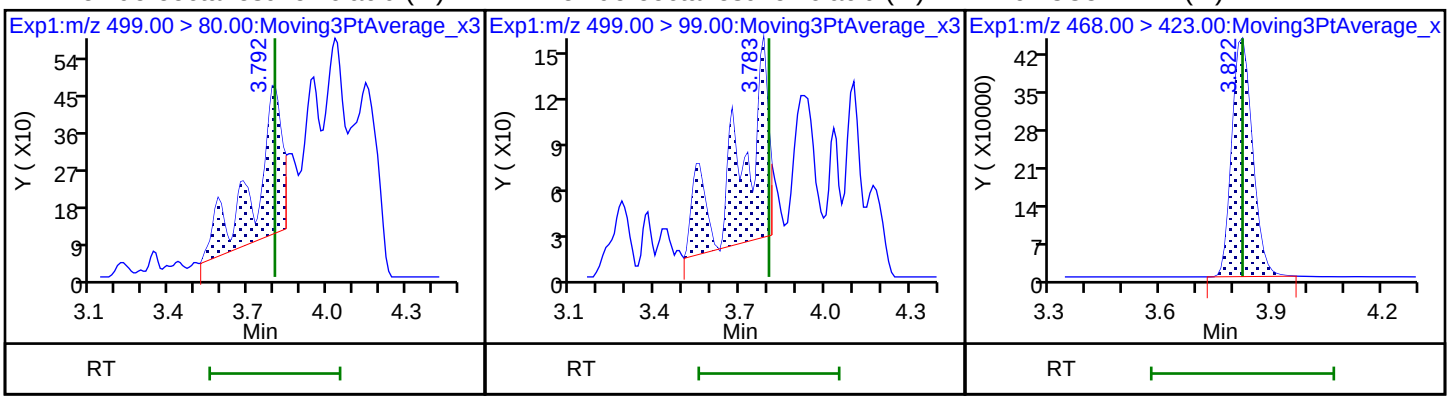
13 1H,1H,2H,2H-perfluorooctanesulfo * 62 13C2 PFOA (M) D 14 13C4 PFOA



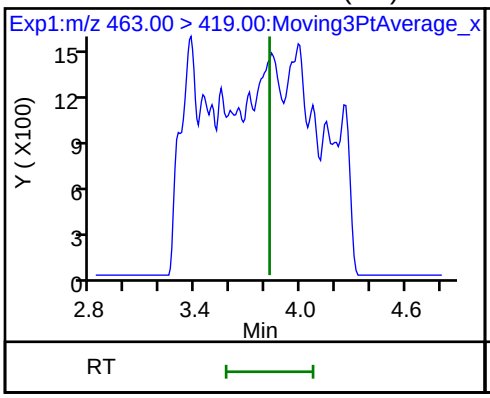
15 Perfluorooctanoic acid (M) 15 Perfluorooctanoic acid (M) D 18 13C4 PFOS



17 Perfluorooctanesulfonic acid (M) 17 Perfluorooctanesulfonic acid (M) D 19 13C5 PFNA (M)



20 Perfluorononanoic acid (ND)



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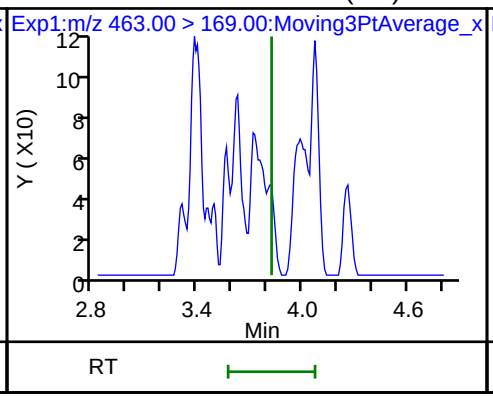
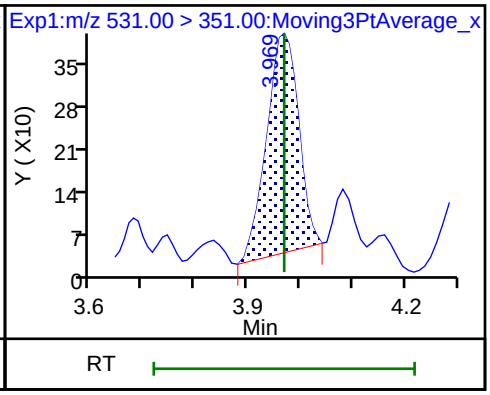


69 9-Chlorohexadecafluoro-3-oxanona (M)



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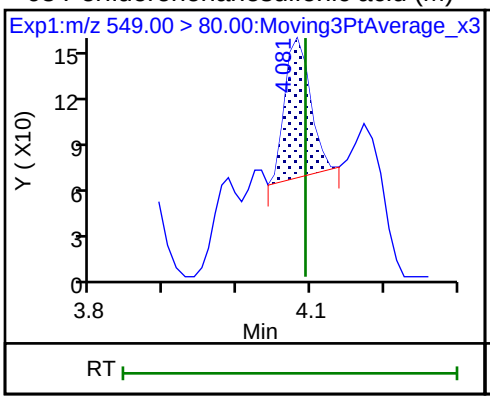
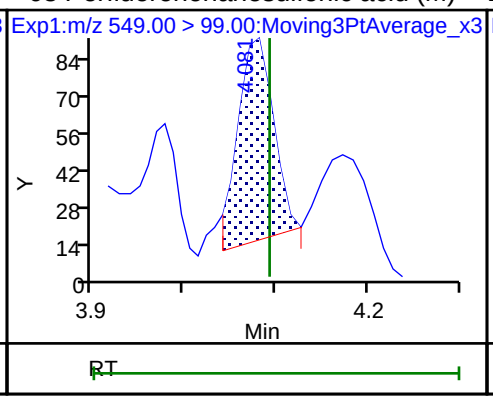
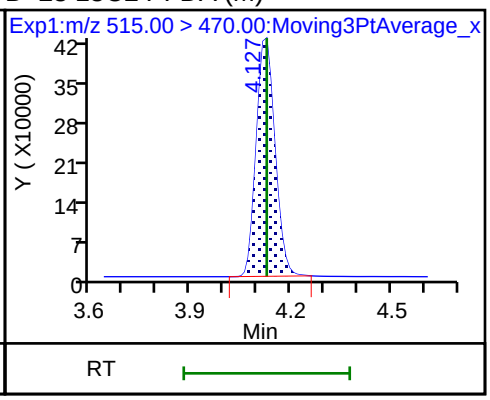


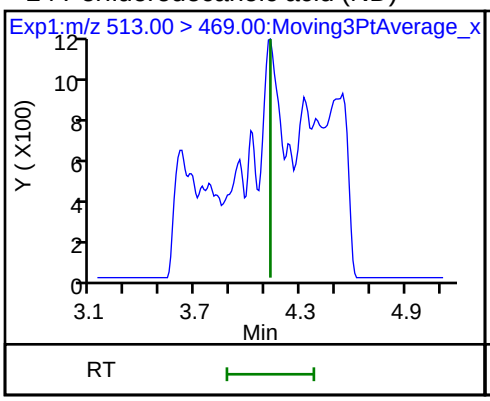
68 Perfluorononanesulfonic acid (M)



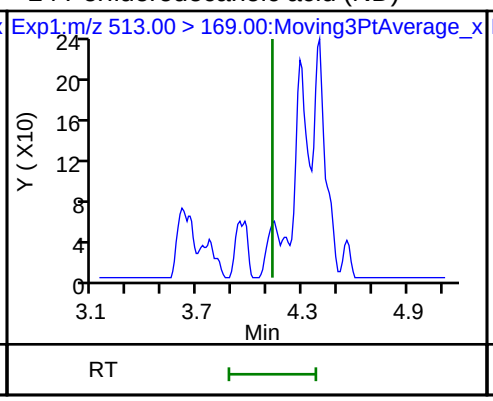
D 23 13C2 PFDA (M)



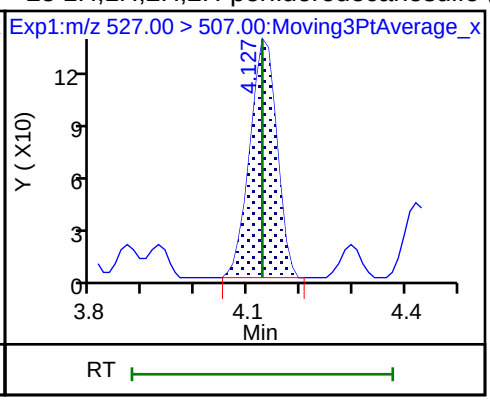
24 Perfluorodecanoic acid (ND)



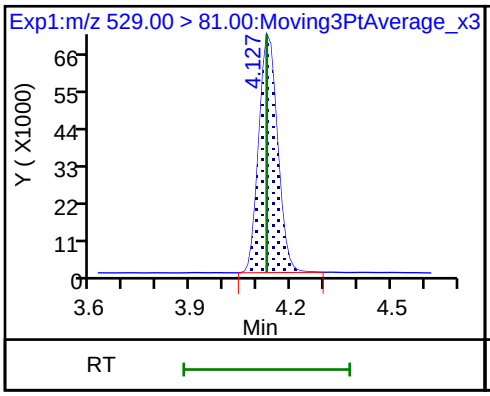
24 Perfluorodecanoic acid (ND)



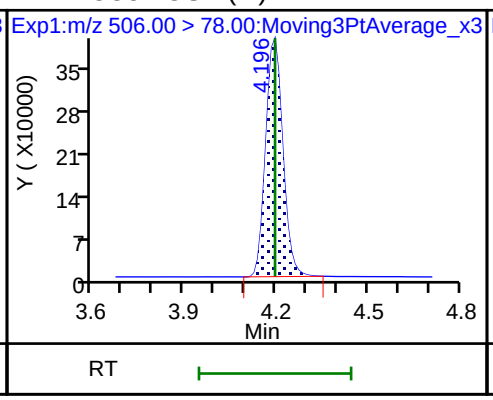
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



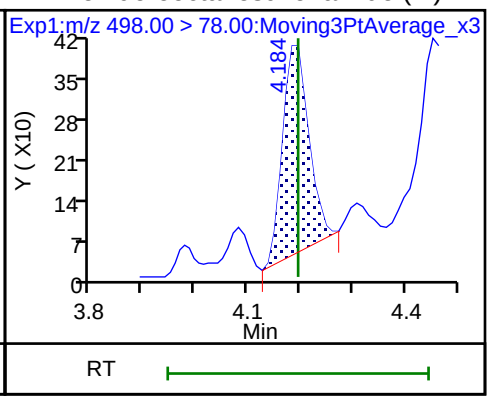
D 26 M2-8:2 FTS



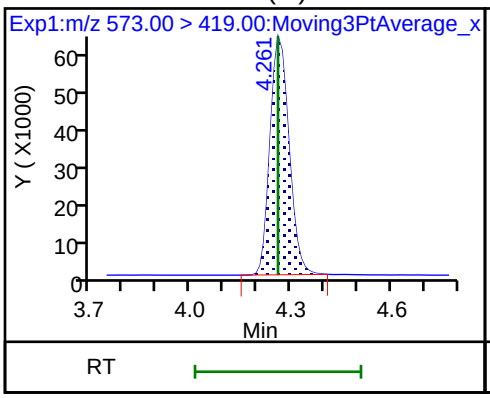
D 21 13C8 FOSA (M)



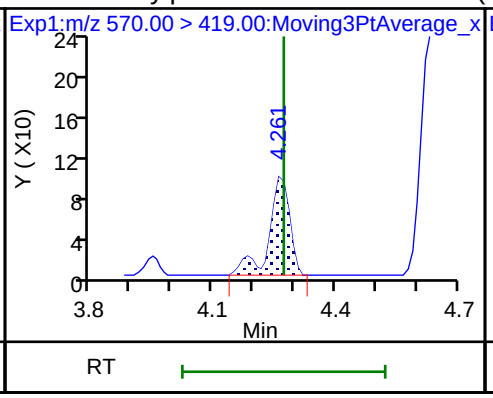
22 Perfluorooctanesulfonamide (M)



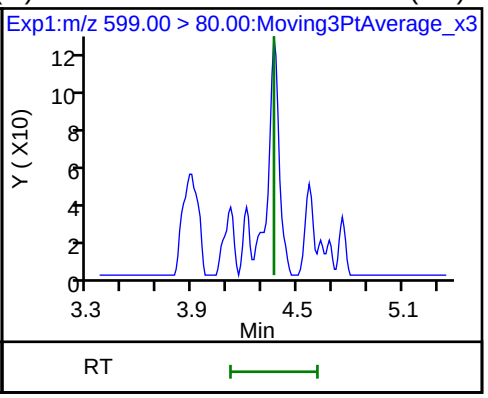
D 27 d3-NMeFOSAA (M)



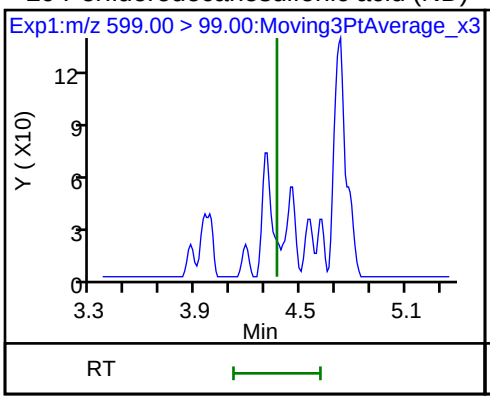
28 N-methylperfluorooctanesulfonami (M)



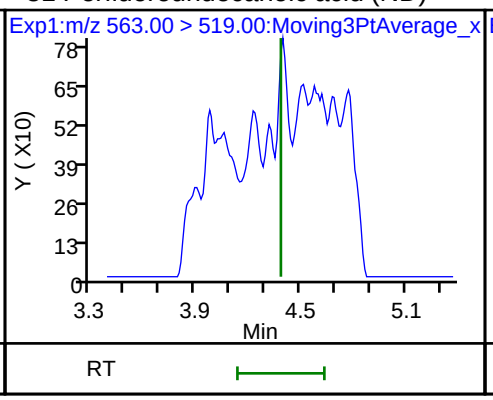
29 Perfluorodecanesulfonic acid (ND)



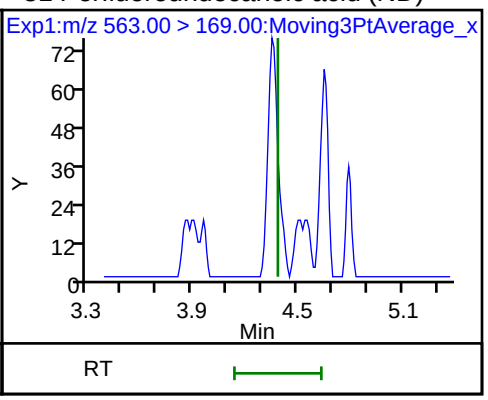
29 Perfluorodecanesulfonic acid (ND)



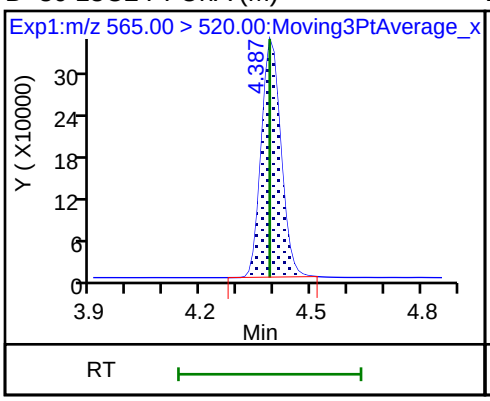
31 Perfluoroundecanoic acid (ND)



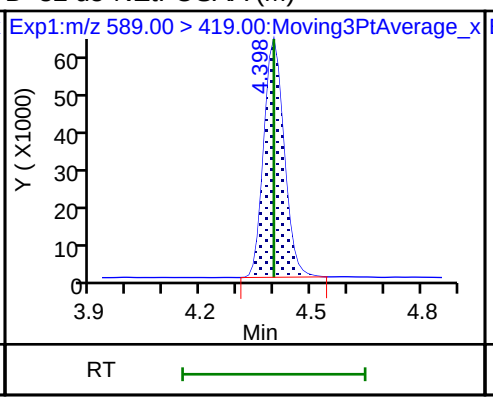
31 Perfluoroundecanoic acid (ND)



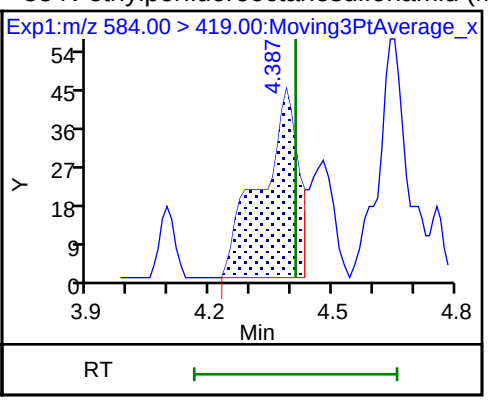
D 30 13C2 PFUnA (M)



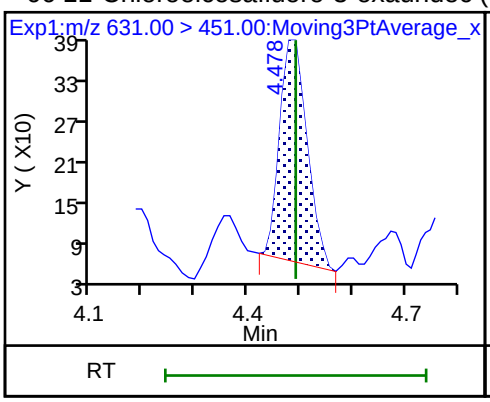
D 32 d5-NEtFOSAA (M)



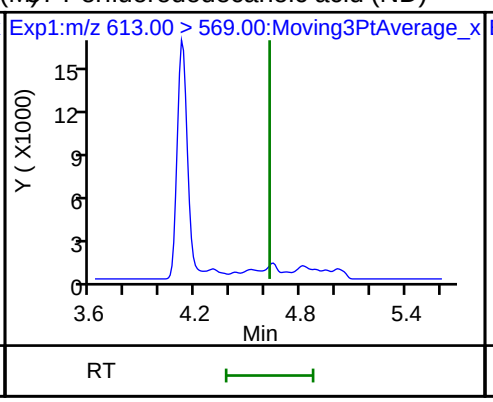
33 N-ethylperfluorooctanesulfonamid (M)



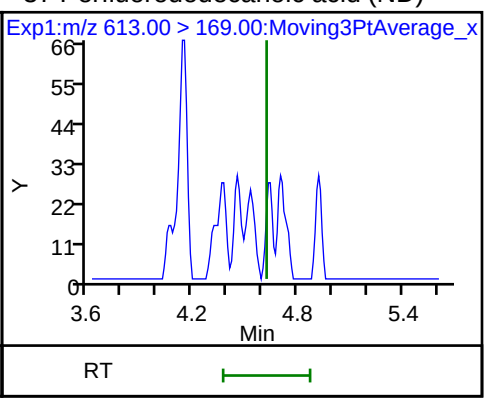
66 11-Chloroeicosafluoro-3-oxaundec (M)



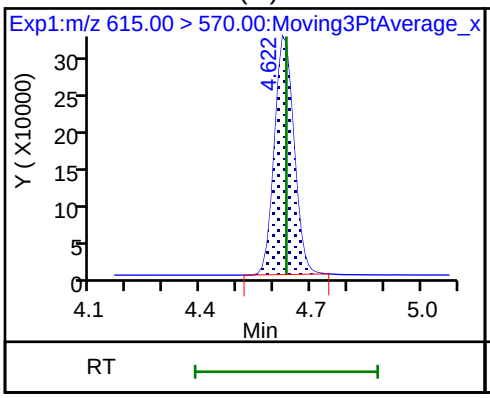
37 Perfluorododecanoic acid (ND)



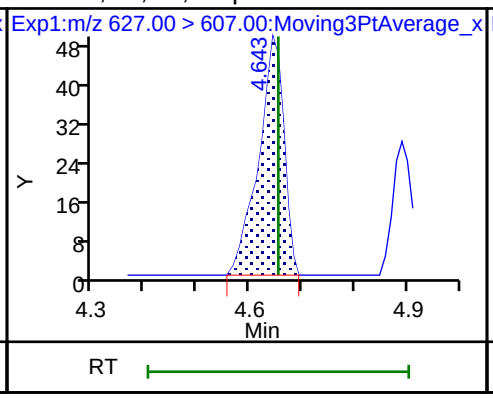
37 Perfluorododecanoic acid (ND)



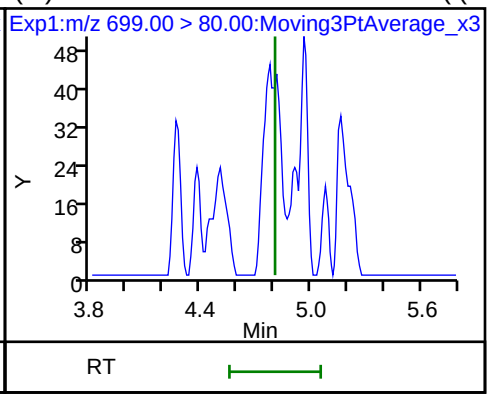
D 36 13C2 PFDoA (M)



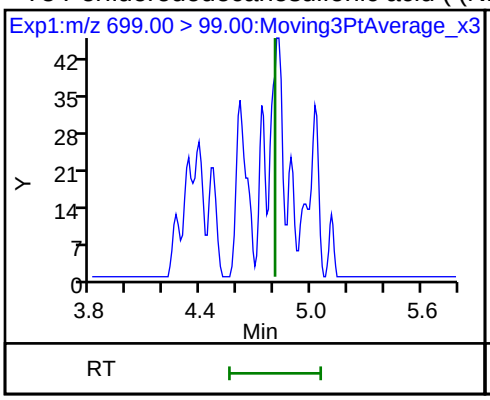
74 1H,1H,2H,2H-perfluorododecanesul (M)



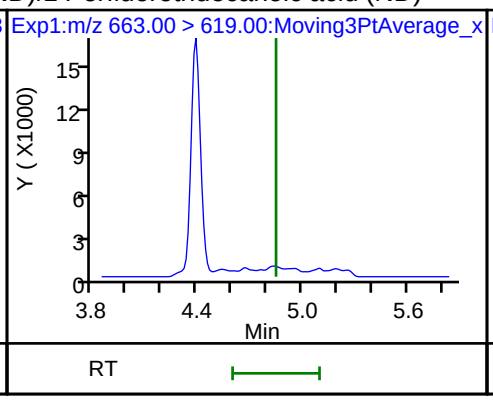
75 Perfluorododecanesulfonic acid ((ND)



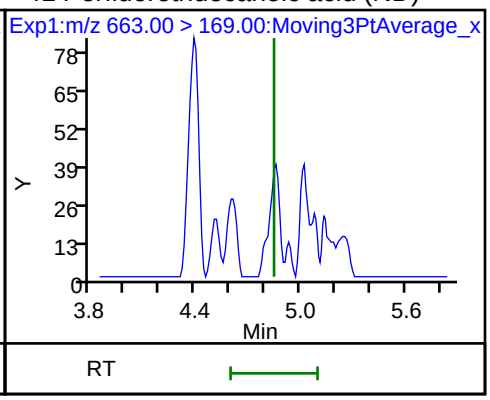
75 Perfluorododecanesulfonic acid ((ND)



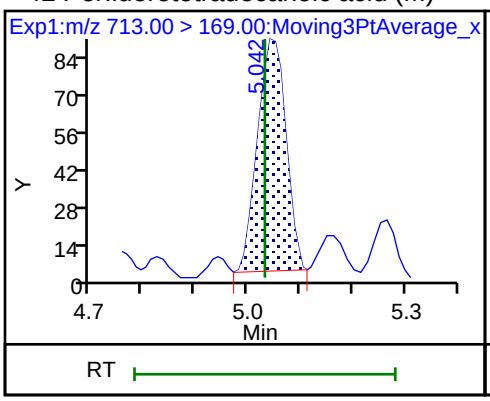
41 Perfluorotridecanoic acid (ND)



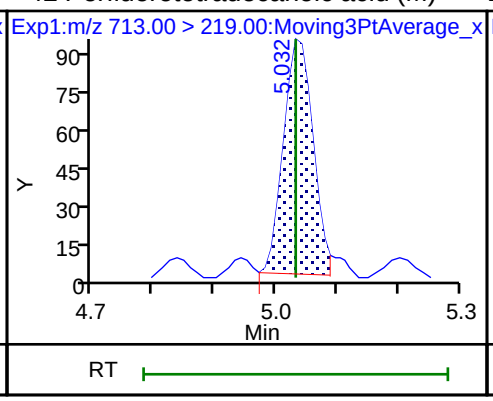
41 Perfluorotridecanoic acid (ND)



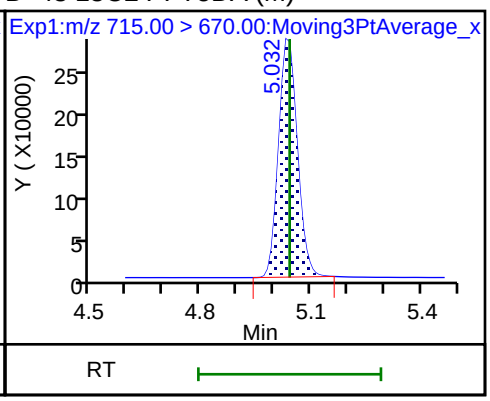
42 Perfluorotetradecanoic acid (M)



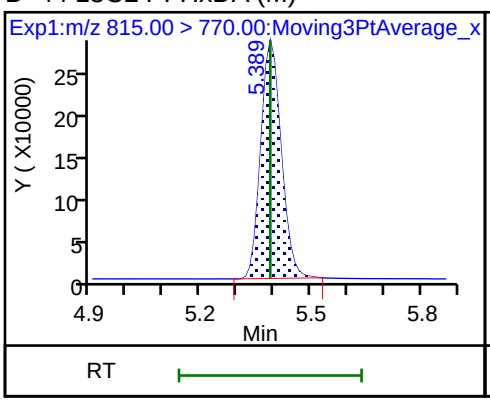
42 Perfluorotetradecanoic acid (M)



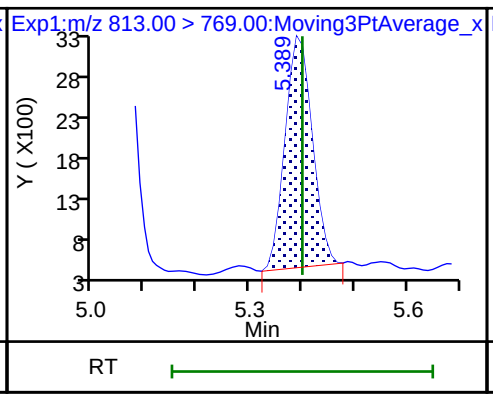
D 43 13C2 PFTeDA (M)



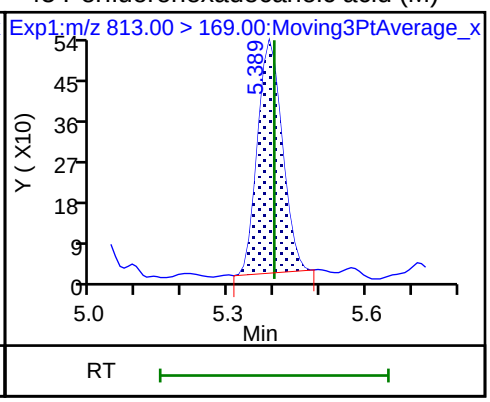
D 44 13C2 PFHxDA (M)



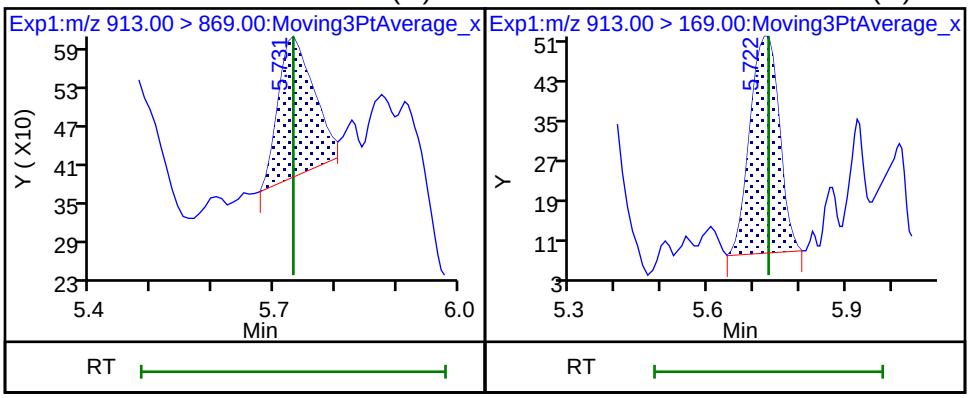
45 Perfluorohexadecanoic acid



45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M) 46 Perfluorooctadecanoic acid (M)



Manual Integration/User Assign Peak Report

Eurofins Burlington

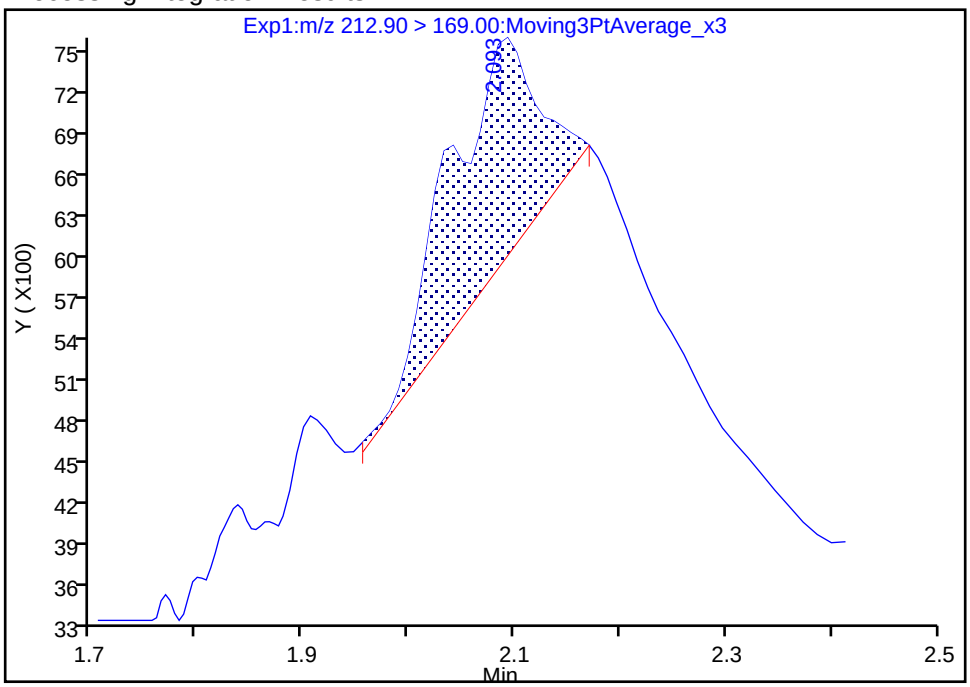
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

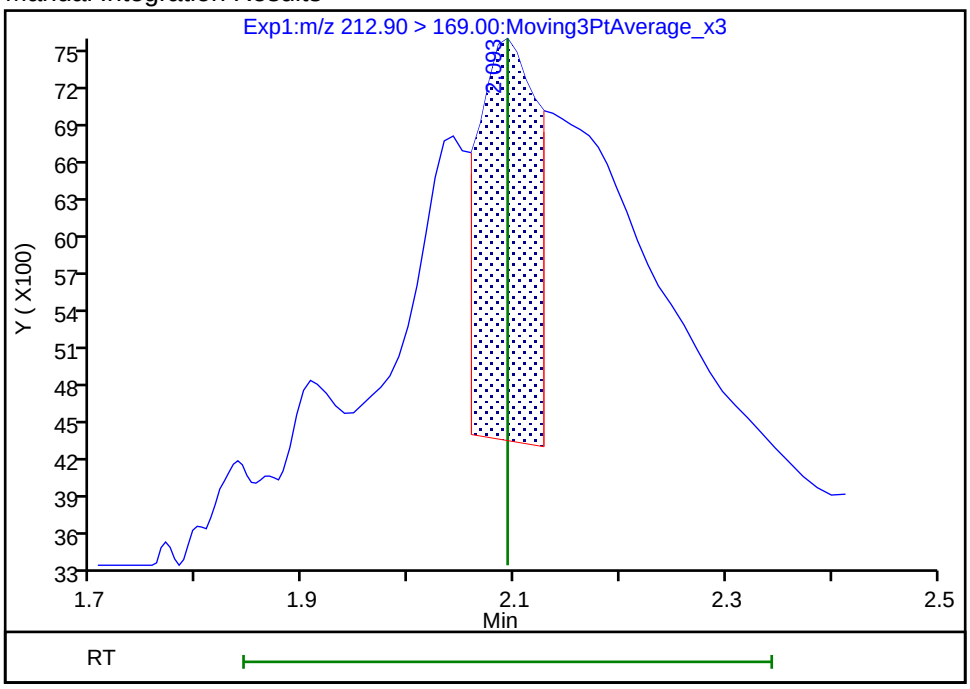
Processing Integration Results

RT: 2.09
Area: 9678
Amount: 0.006096
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 11788
Amount: 0.007425
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:50:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

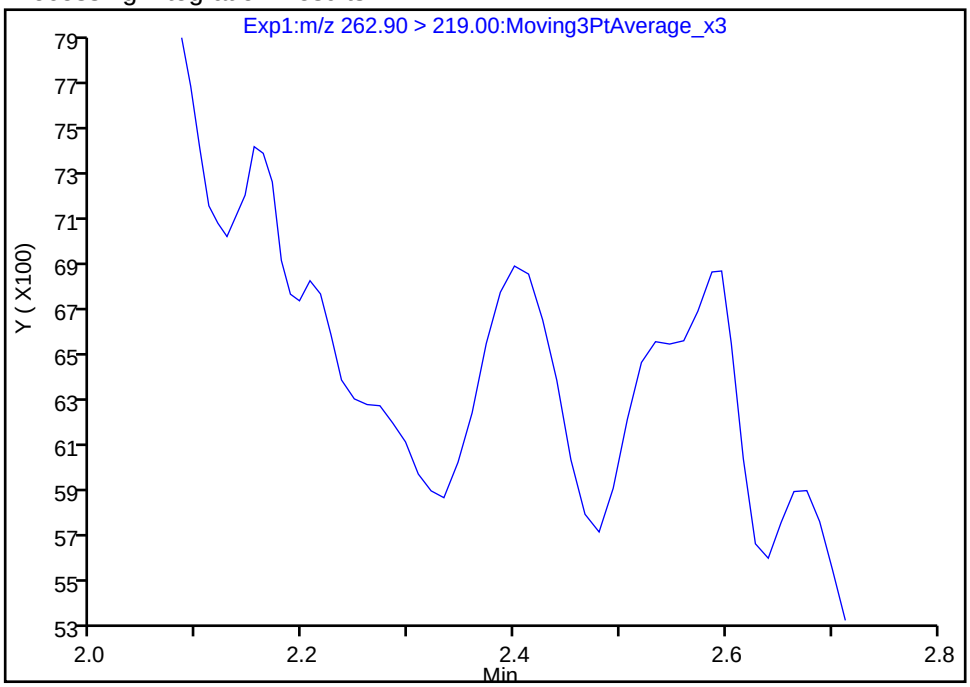
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

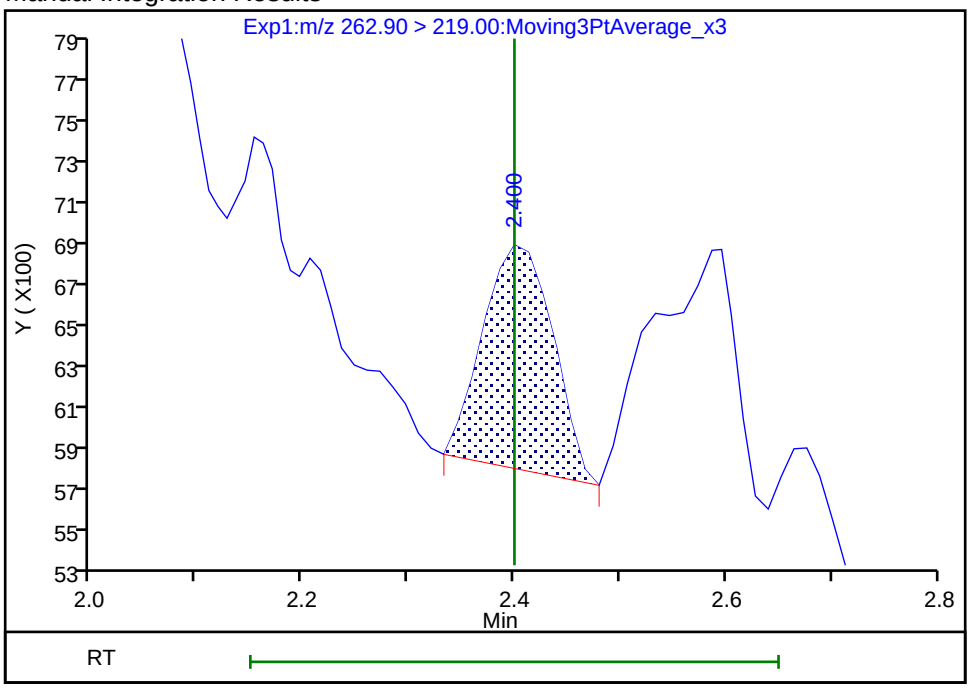
Not Detected
Expected RT: 2.40

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 4824
Amount: 0.003802
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:50:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

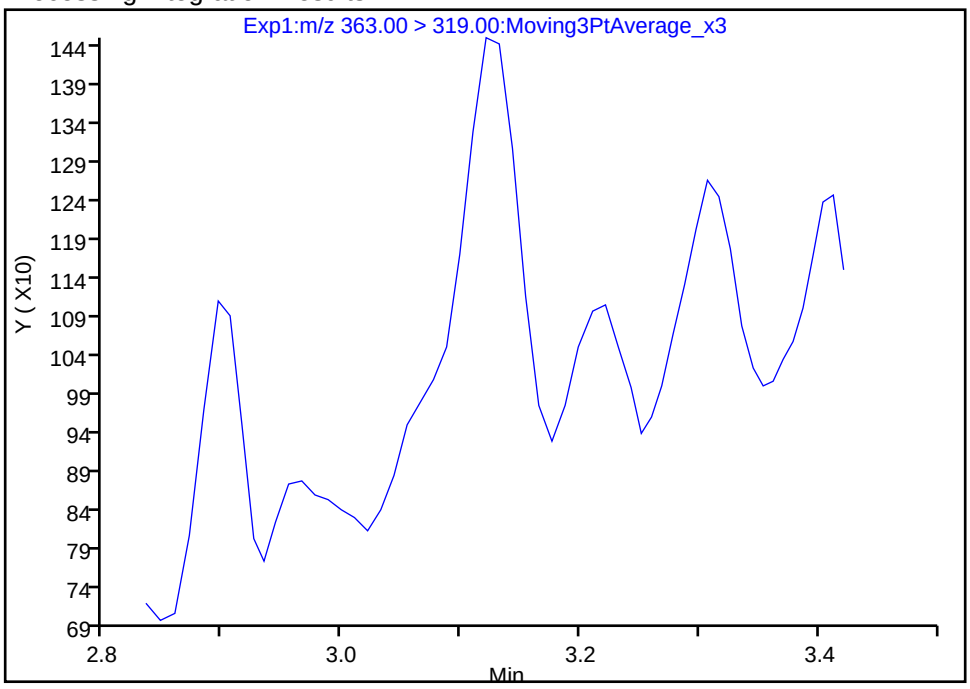
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

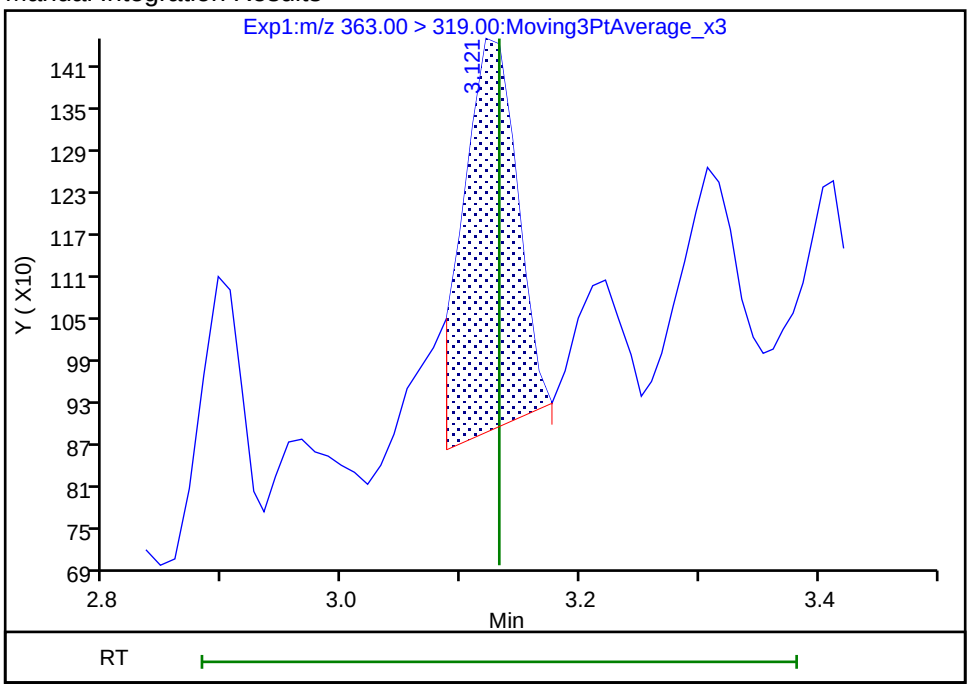
Not Detected
Expected RT: 3.13

Processing Integration Results



Manual Integration Results

RT: 3.12
Area: 1725
Amount: 0.001277
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:52:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

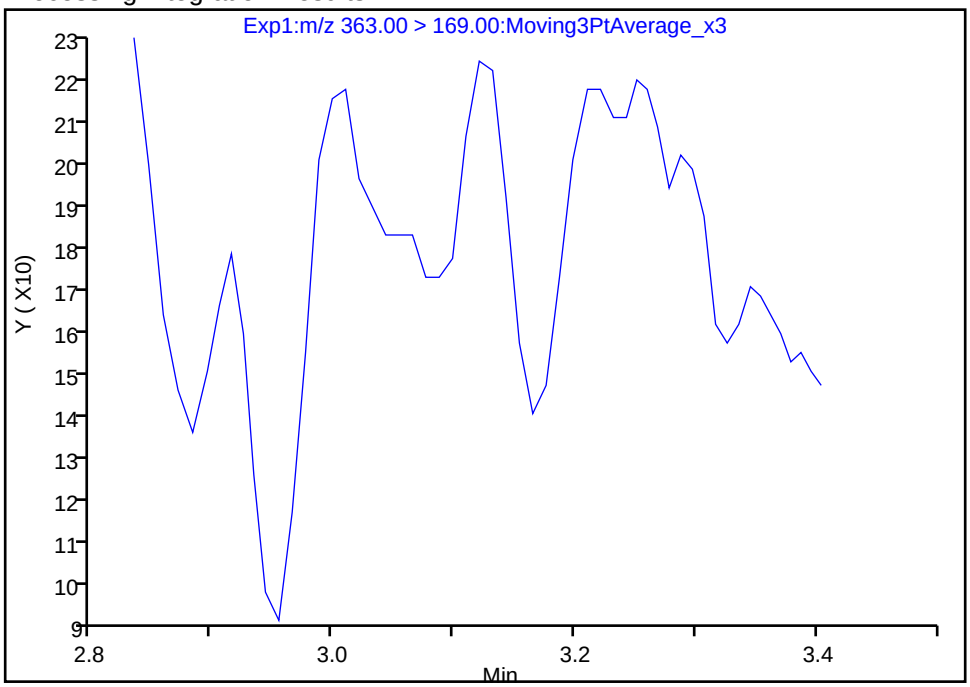
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

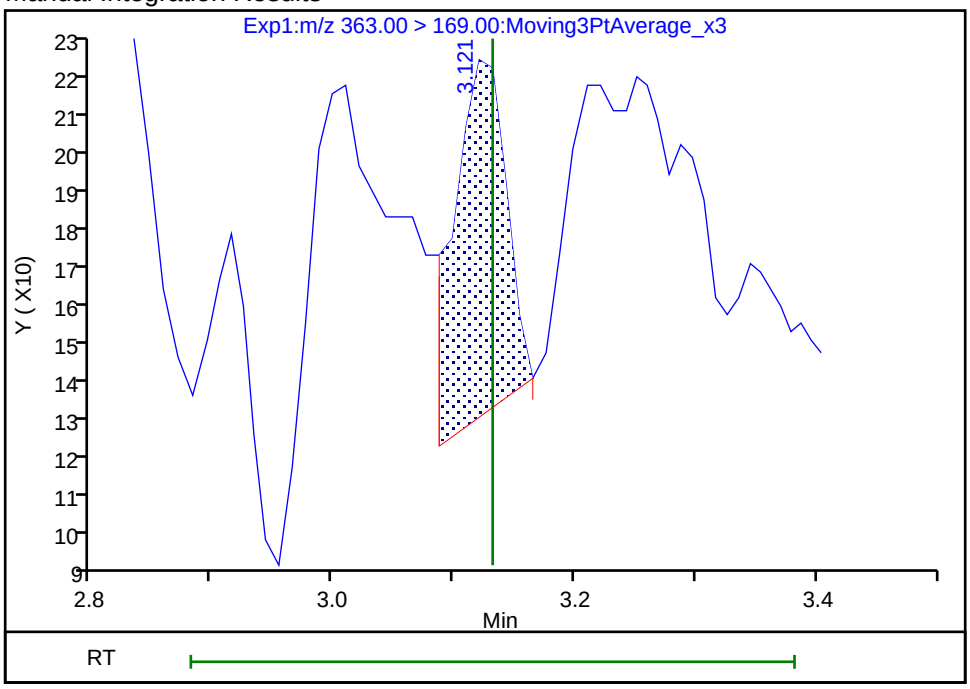
Not Detected
Expected RT: 3.13

Processing Integration Results



Manual Integration Results

RT: 3.12
Area: 246
Amount: 0.001277
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:52:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

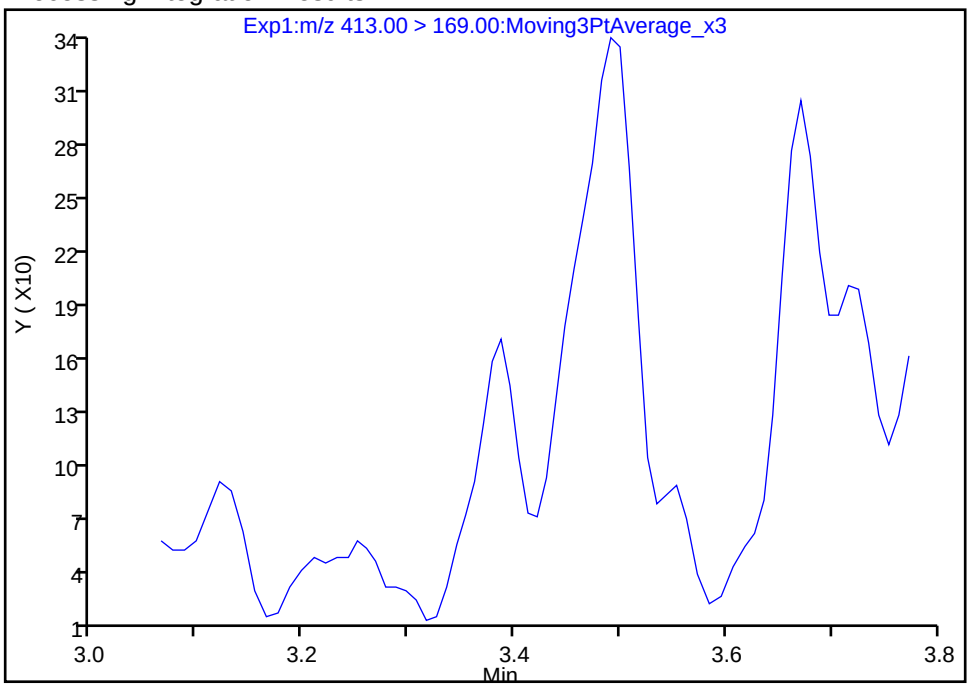
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d				
Injection Date:	13-Jun-2022 17:49:53	Instrument ID:	LC812		
Lims ID:	MB 200-180717/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

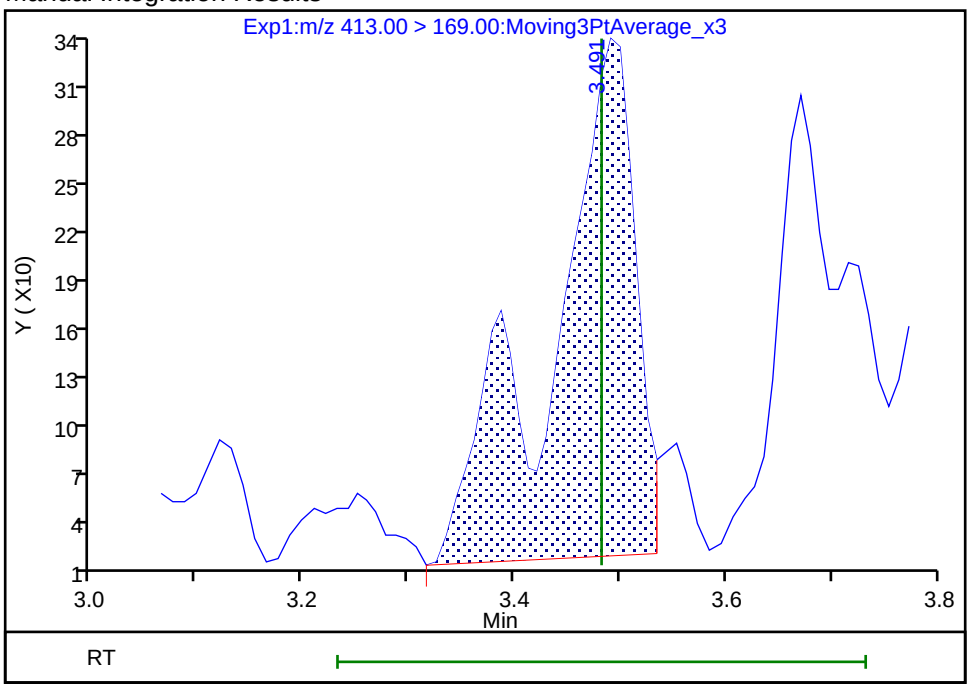
Not Detected
Expected RT: 3.48

Processing Integration Results



Manual Integration Results

RT: 3.49
Area: 1705
Amount: 0.007539
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:52:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

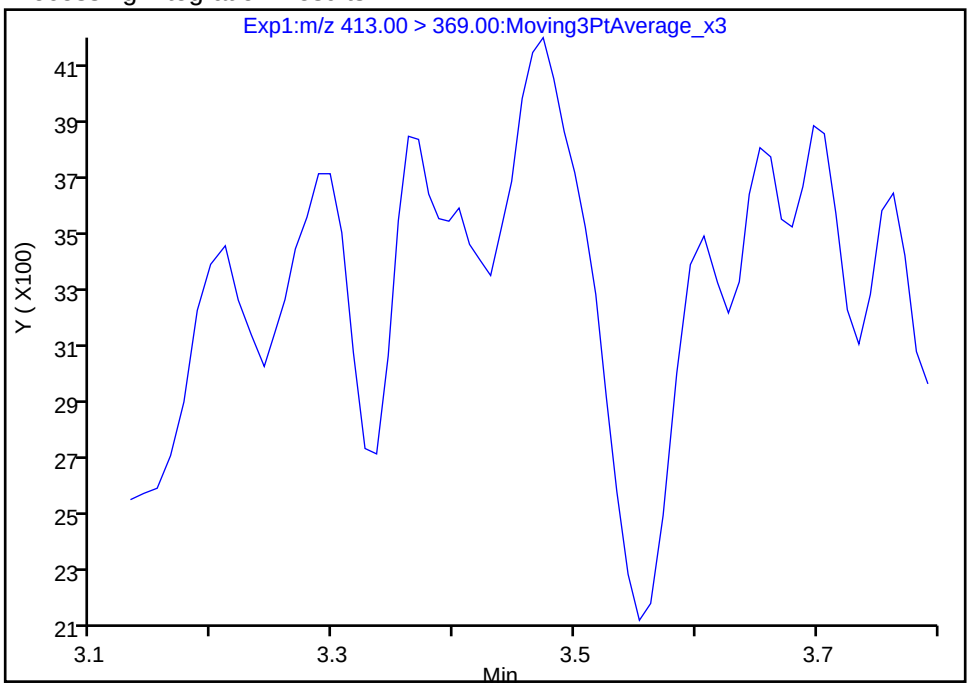
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

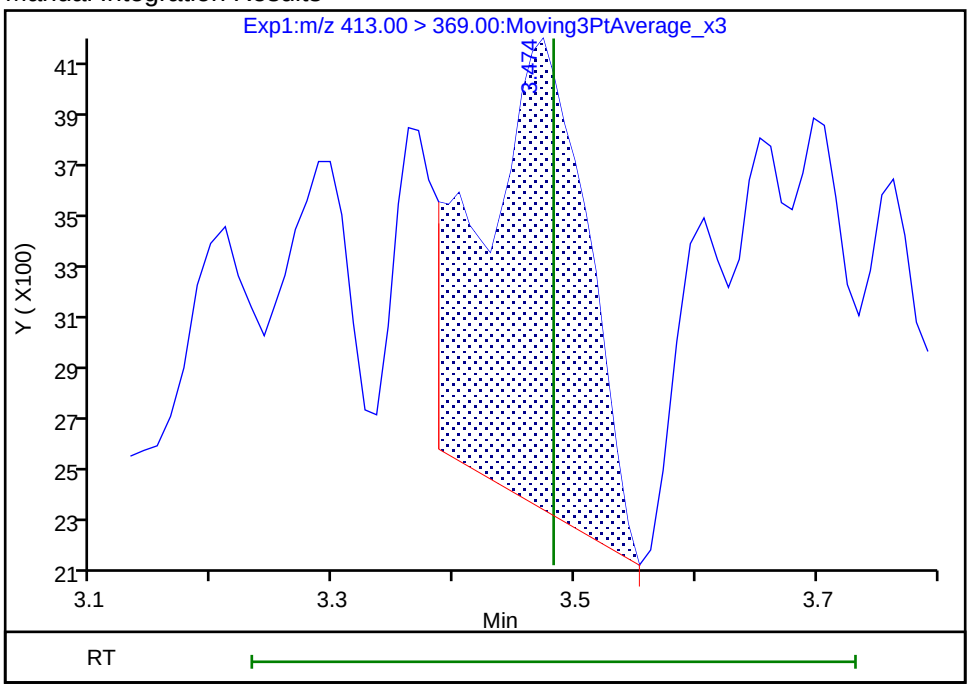
Not Detected
Expected RT: 3.48

Processing Integration Results



Manual Integration Results

RT: 3.47
Area: 10869
Amount: 0.007539
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:53:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

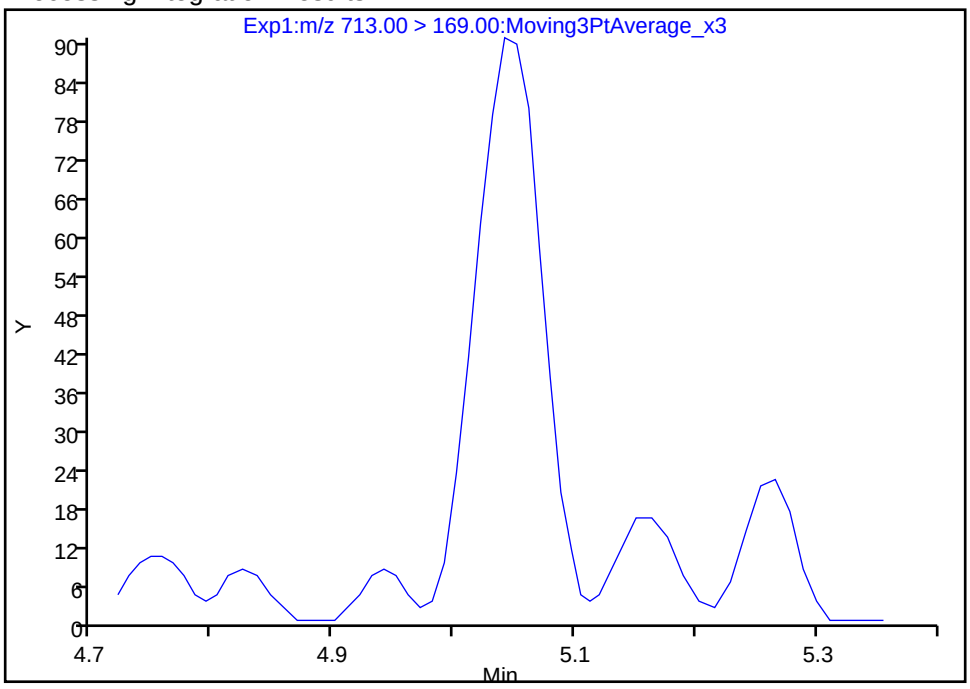
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

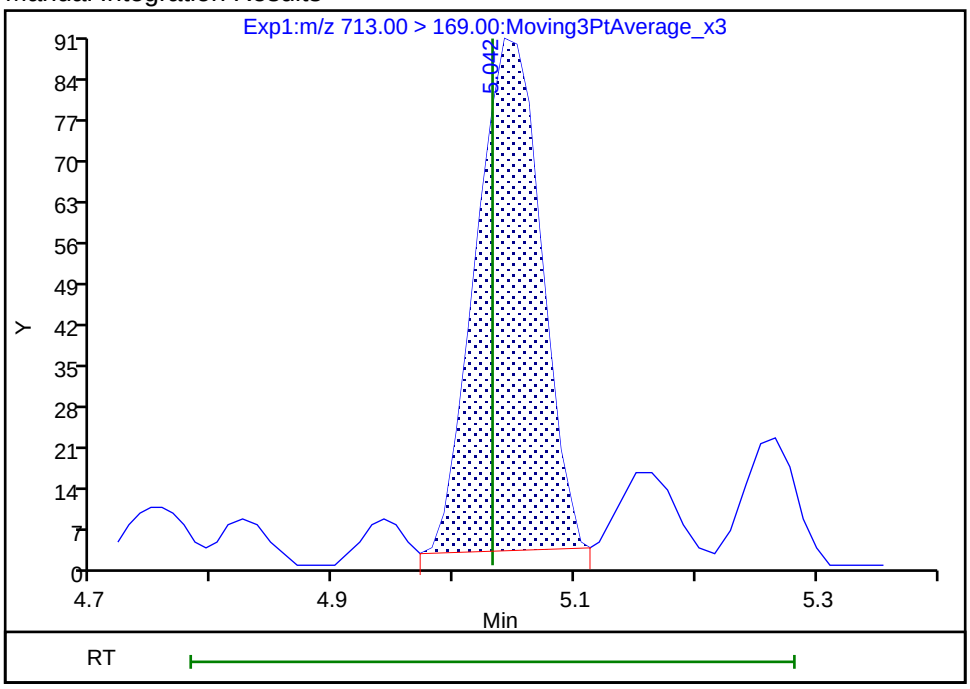
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.04
Area: 332
Amount: 0.002673
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:55:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

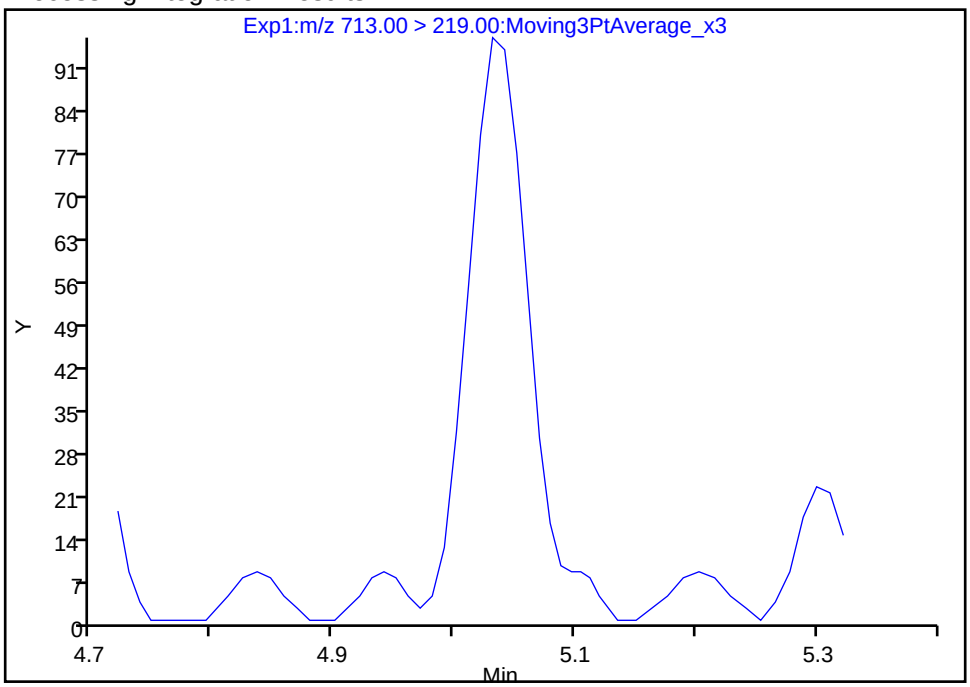
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

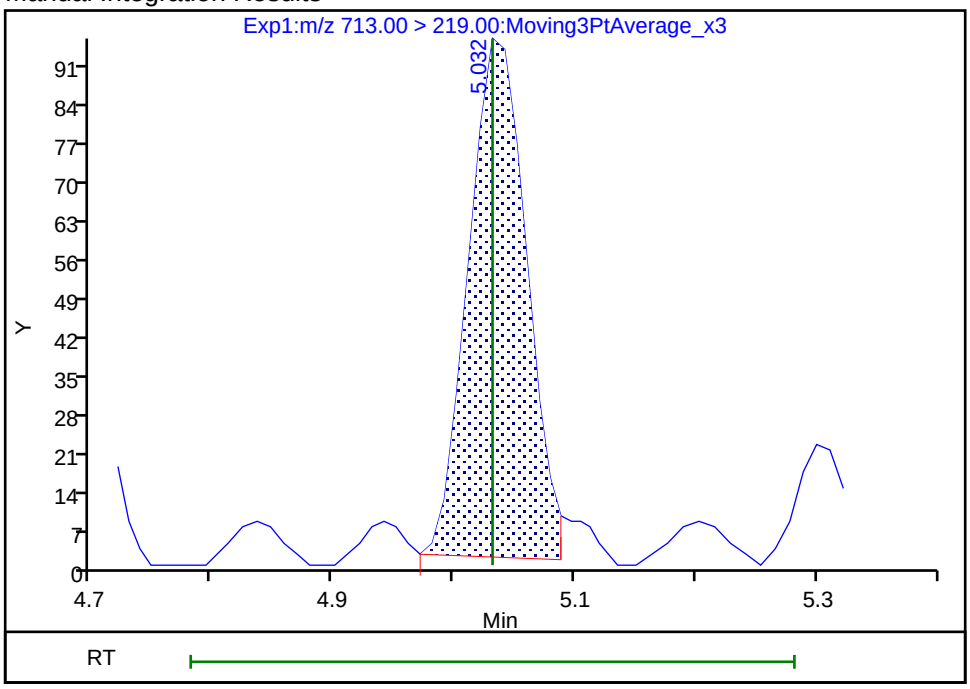
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.03
Area: 315
Amount: 0.002673
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:55:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

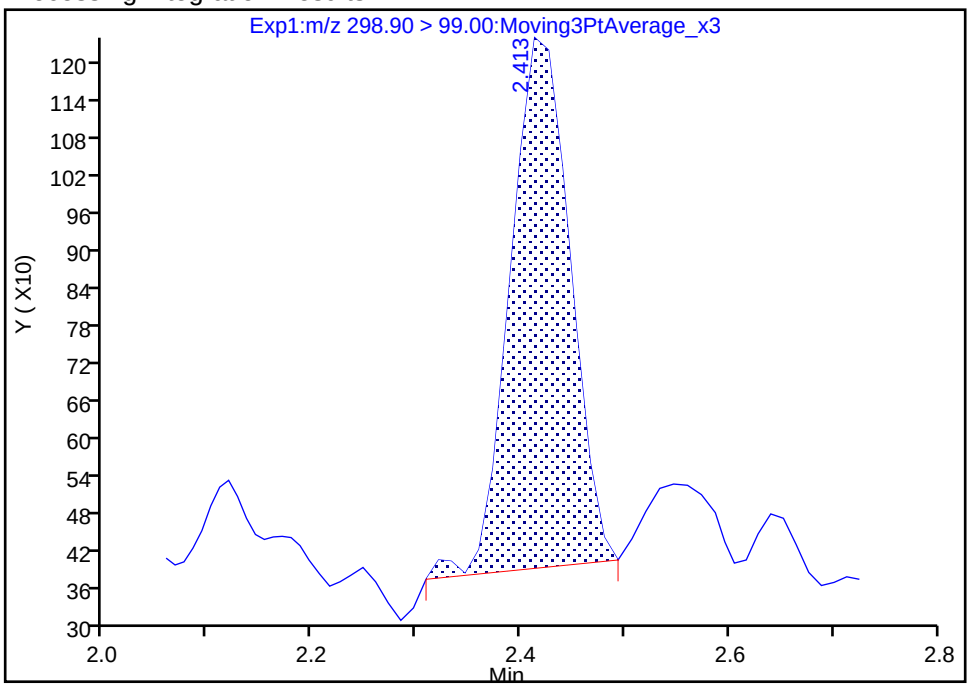
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

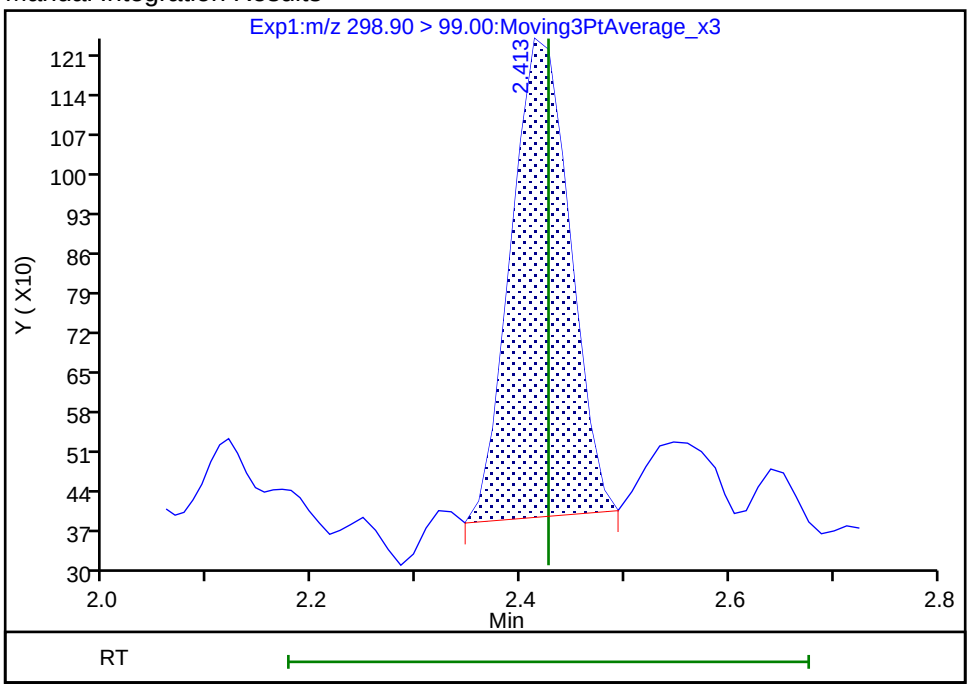
Processing Integration Results

RT: 2.41
Area: 3403
Amount: 0.003848
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 3350
Amount: 0.003848
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:51:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

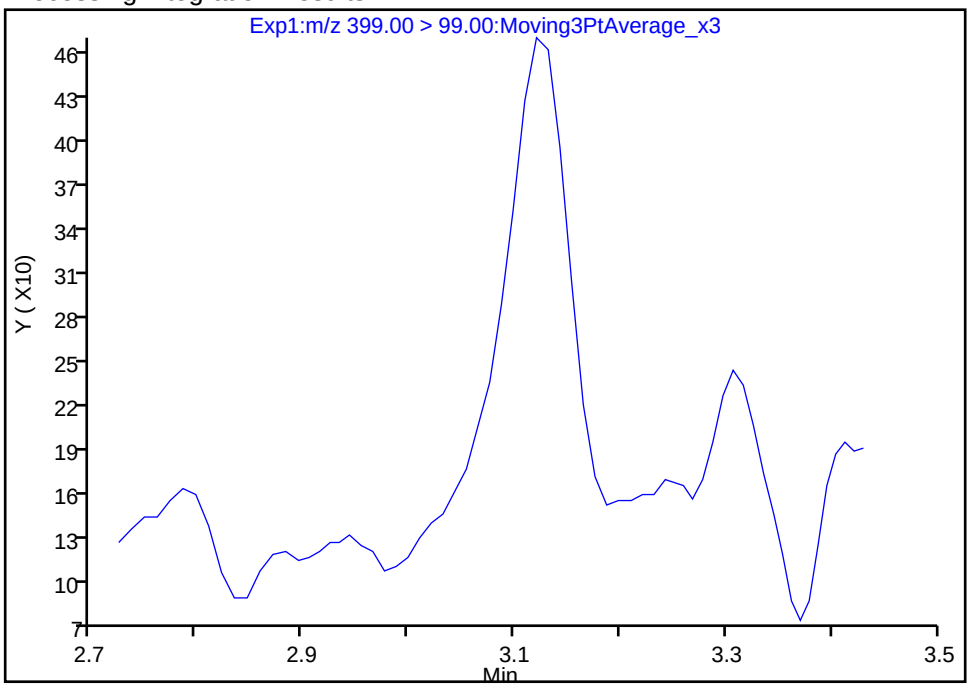
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

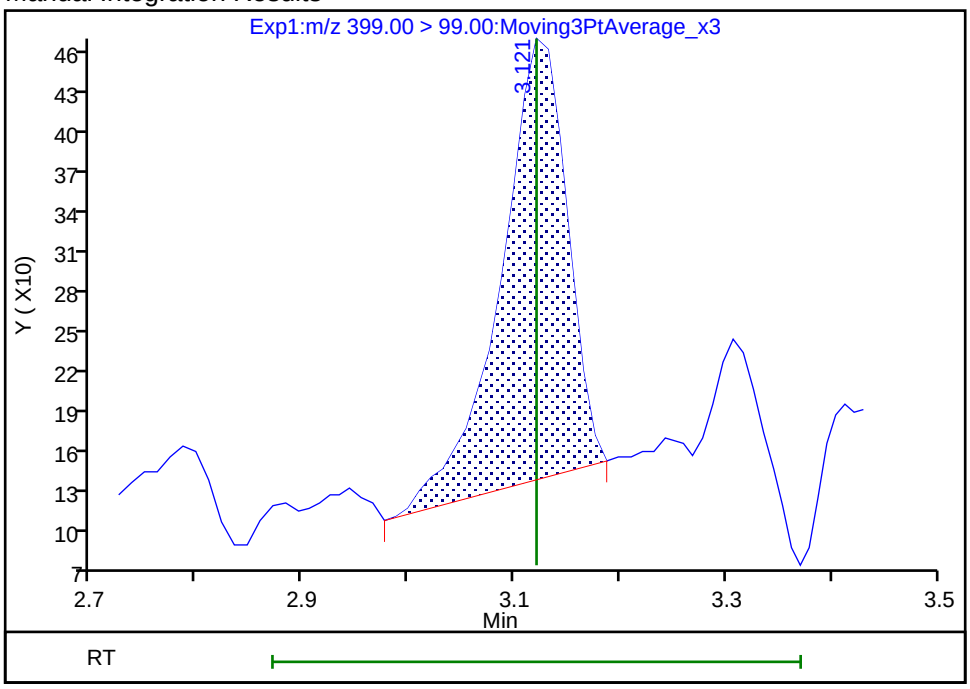
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.12
Area: 1420
Amount: 0.004533
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:52:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

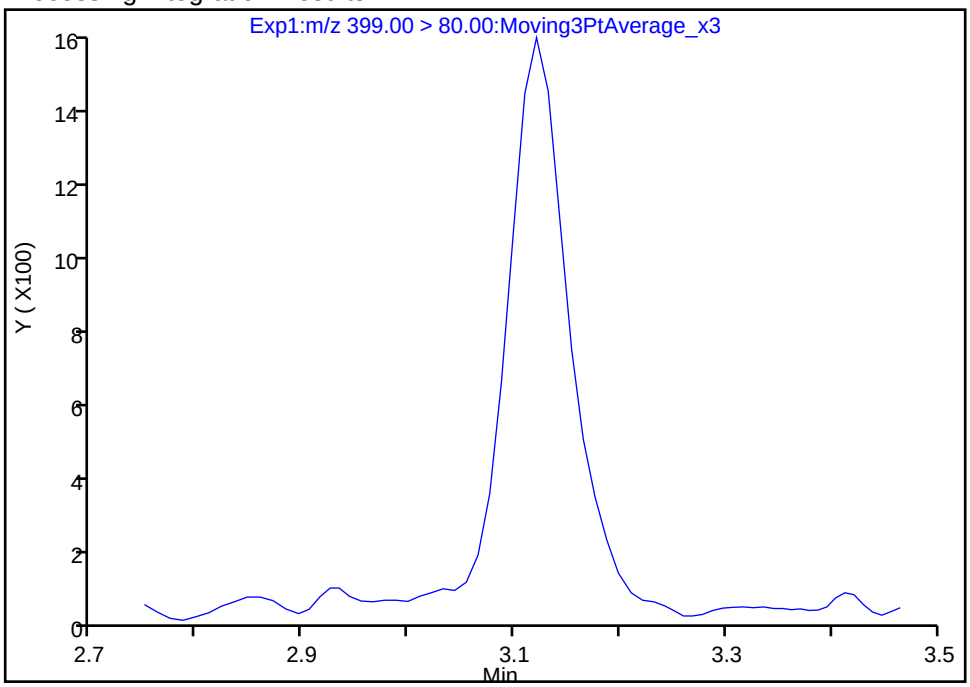
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

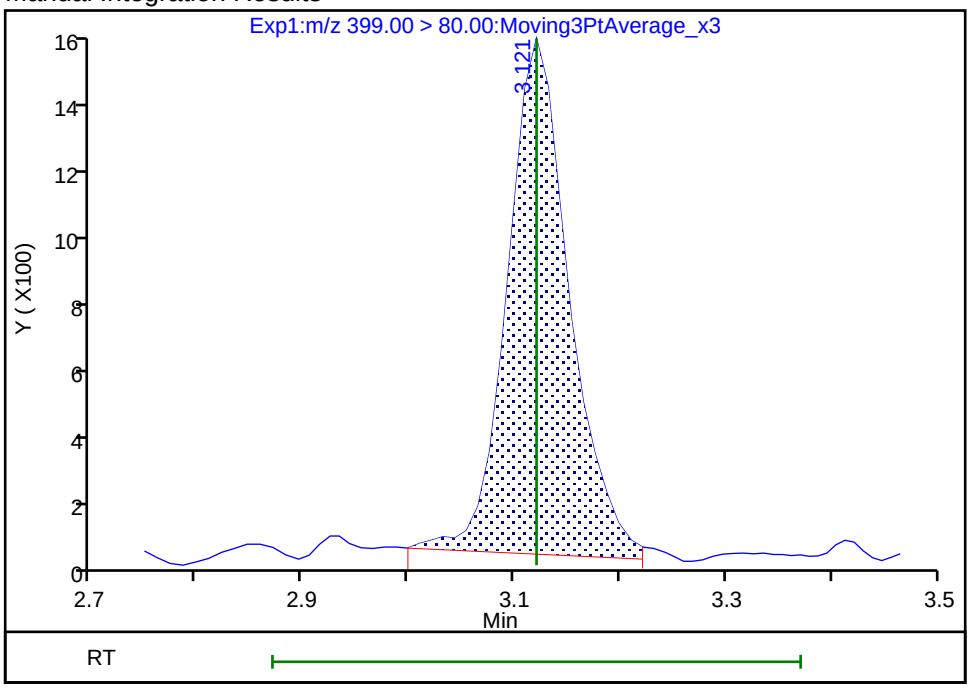
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.12
Area: 5913
Amount: 0.004533
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:52:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

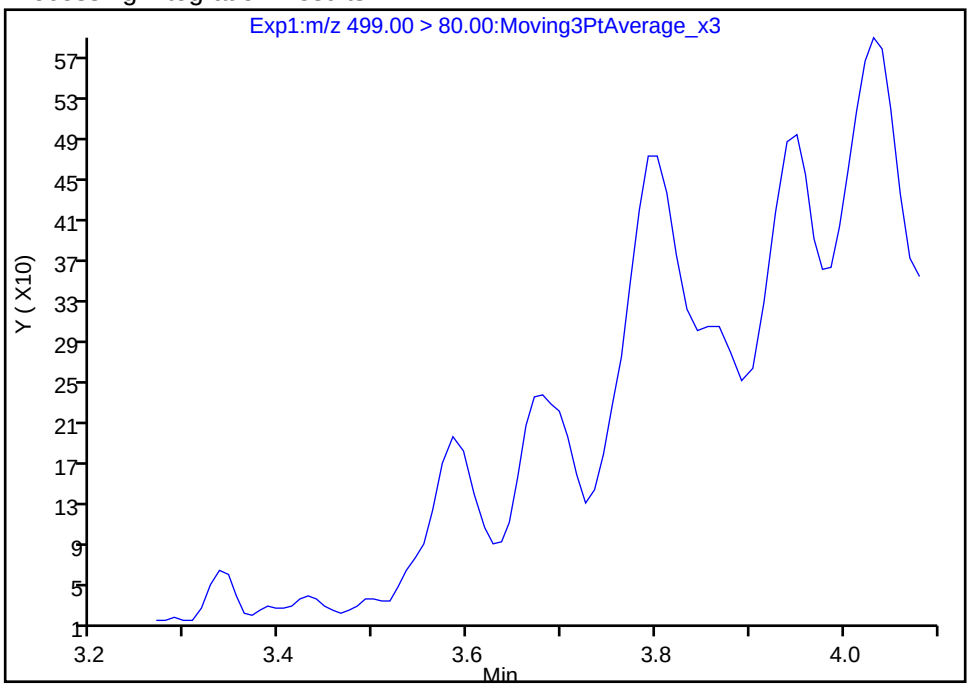
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

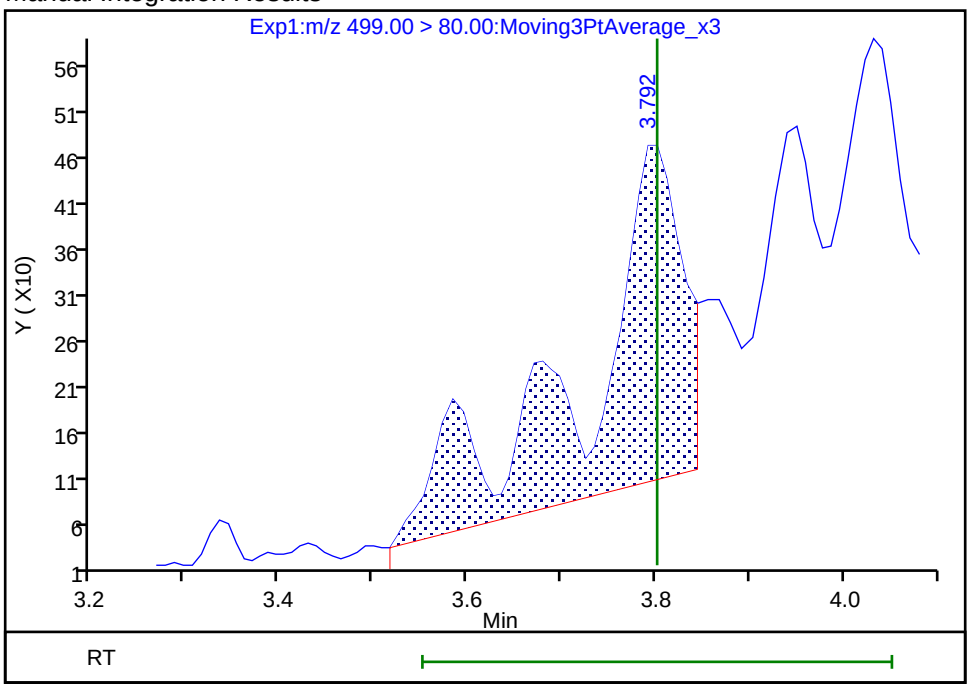
Not Detected
Expected RT: 3.80

Processing Integration Results



Manual Integration Results

RT: 3.79
Area: 2636
Amount: 0.002797
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:53:20
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

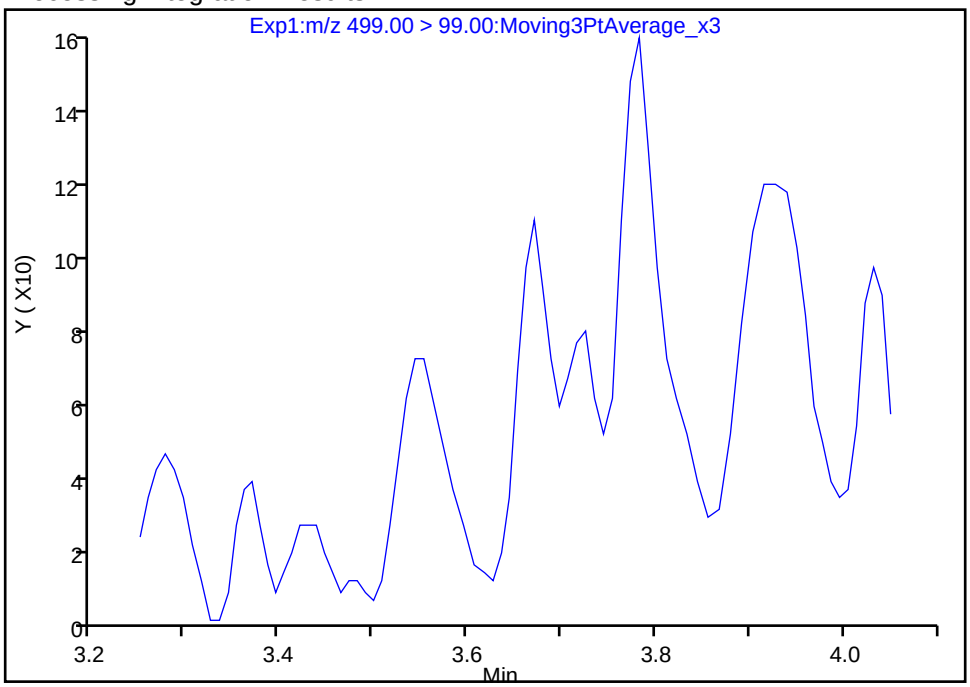
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

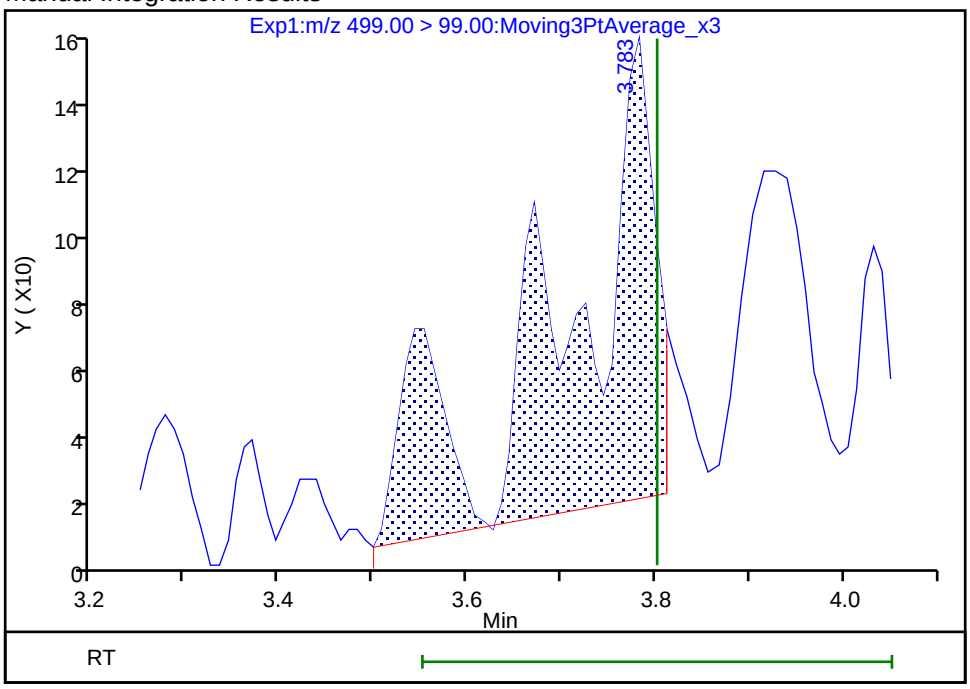
Not Detected
Expected RT: 3.80

Processing Integration Results



Manual Integration Results

RT: 3.78
Area: 868
Amount: 0.002797
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:53:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

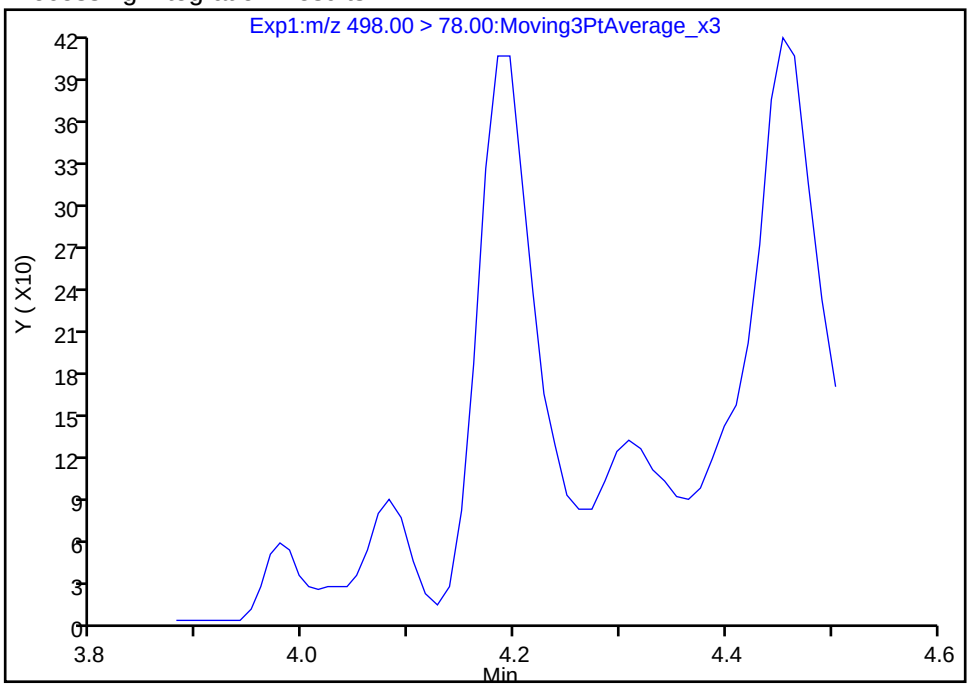
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

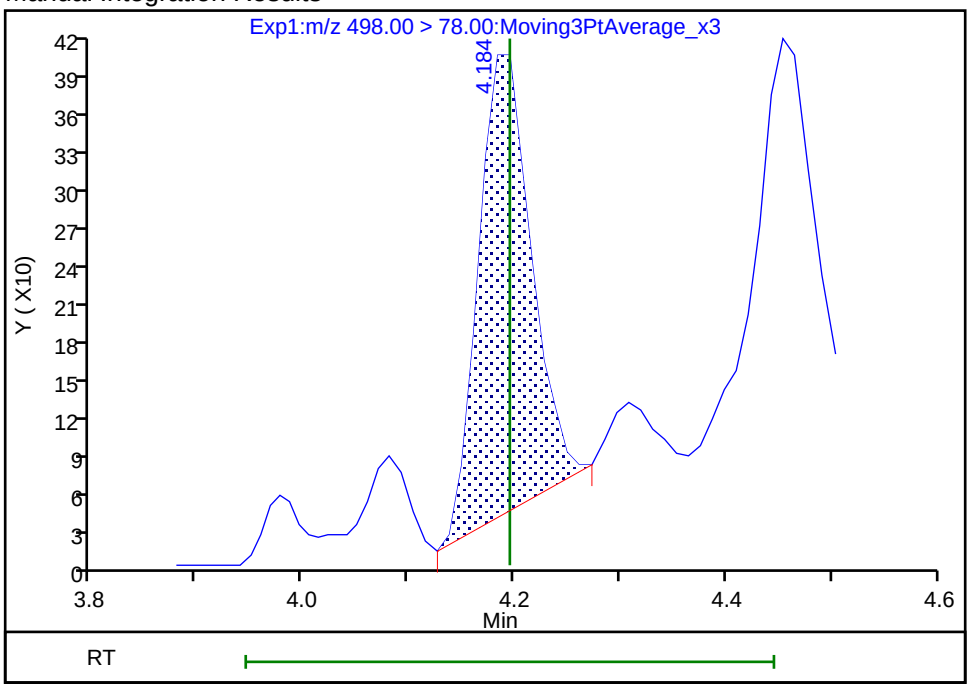
Not Detected
Expected RT: 4.20

Processing Integration Results



Manual Integration Results

RT: 4.18
Area: 1252
Amount: 0.001022
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:54:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

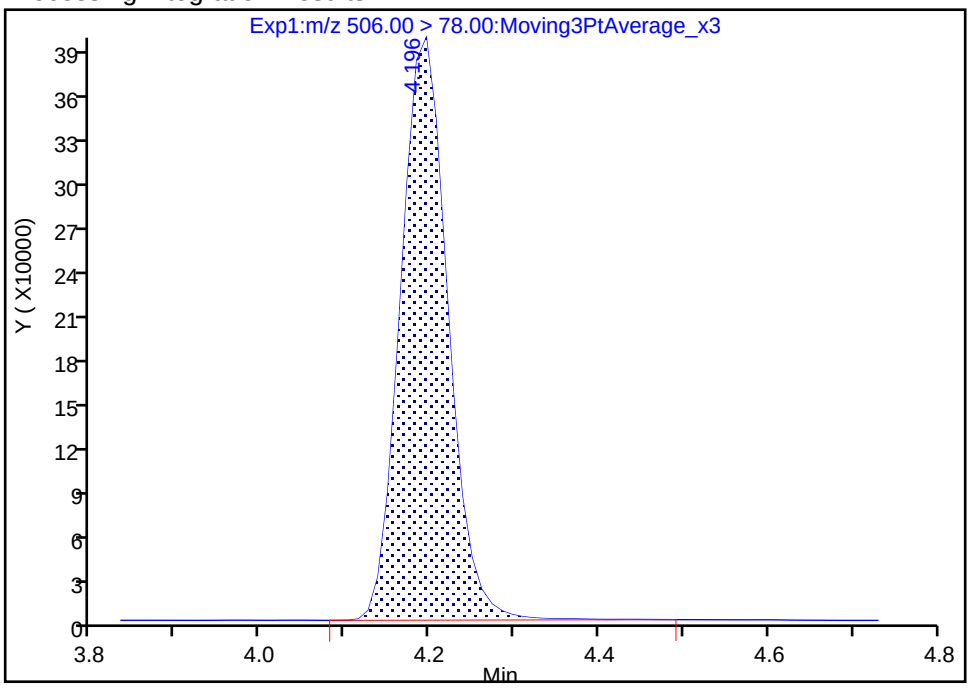
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

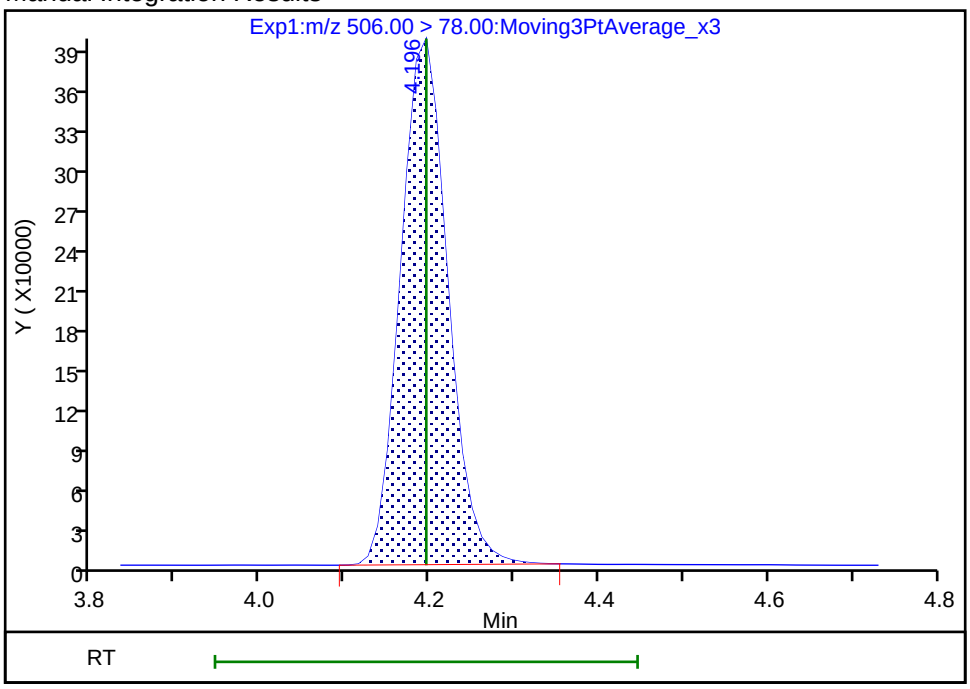
Processing Integration Results

RT: 4.20
Area: 1516523
Amount: 0.996000
Amount Units: ng/ml



Manual Integration Results

RT: 4.20
Area: 1508615
Amount: 0.990807
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:32:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

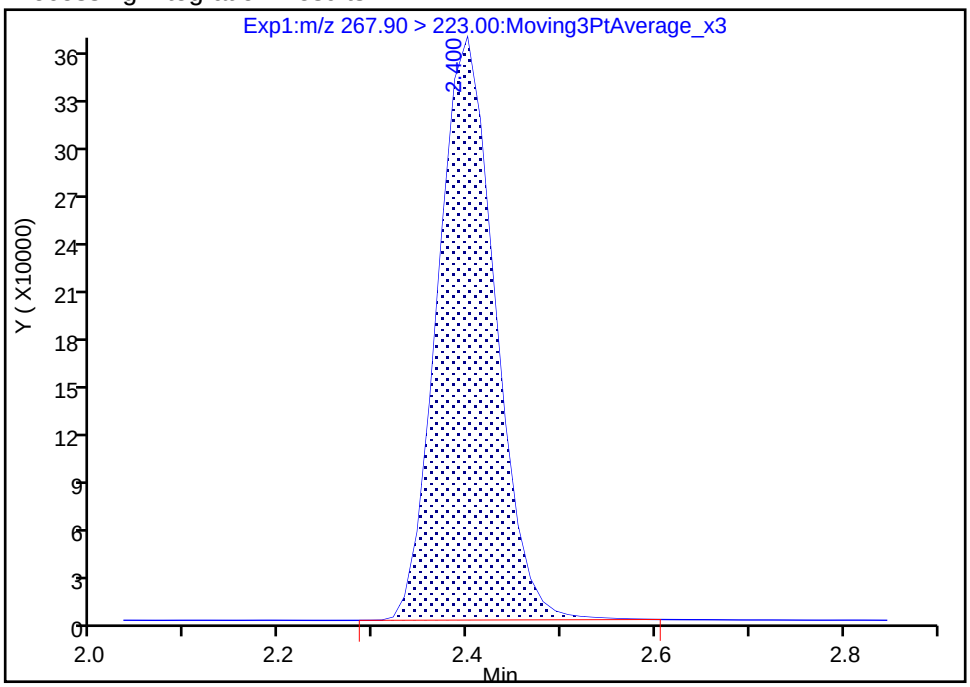
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 3 13C5 PFPeA, CAS: STL01893

Signal: 1

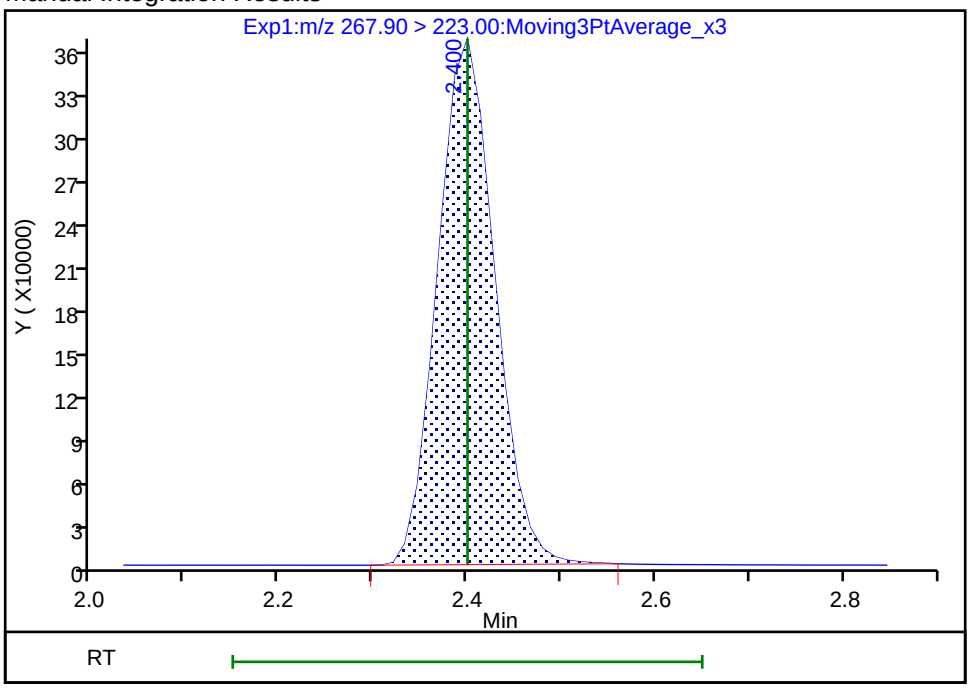
Processing Integration Results

RT: 2.40
Area: 1561242
Amount: 1.364320
Amount Units: ng/ml



Manual Integration Results

RT: 2.40
Area: 1556019
Amount: 1.364835
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:27:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

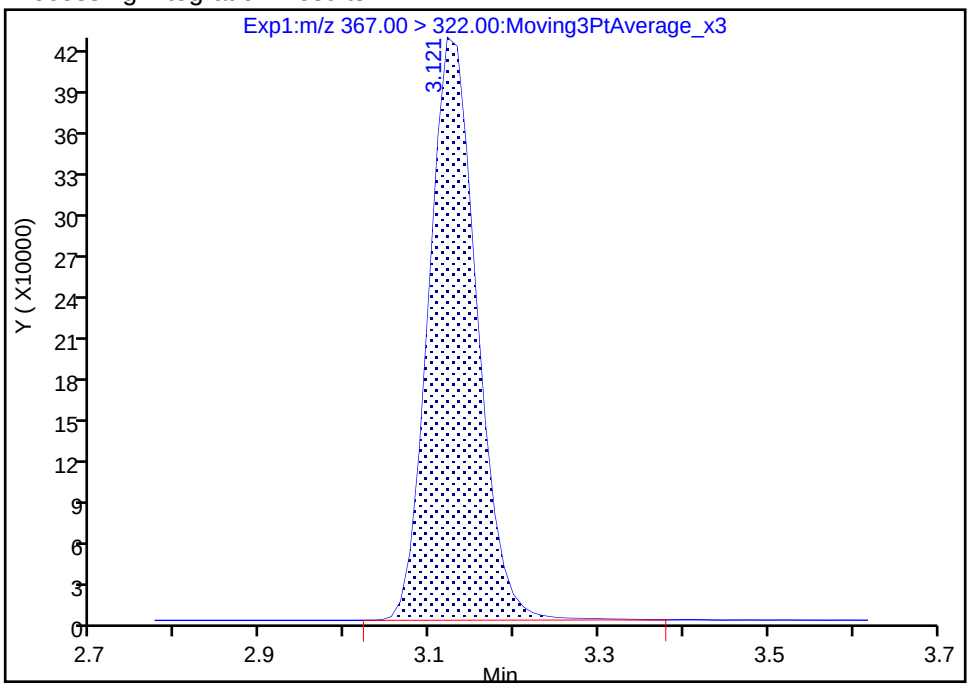
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d				
Injection Date:	13-Jun-2022 17:49:53	Instrument ID:	LC812		
Lims ID:	MB 200-180717/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

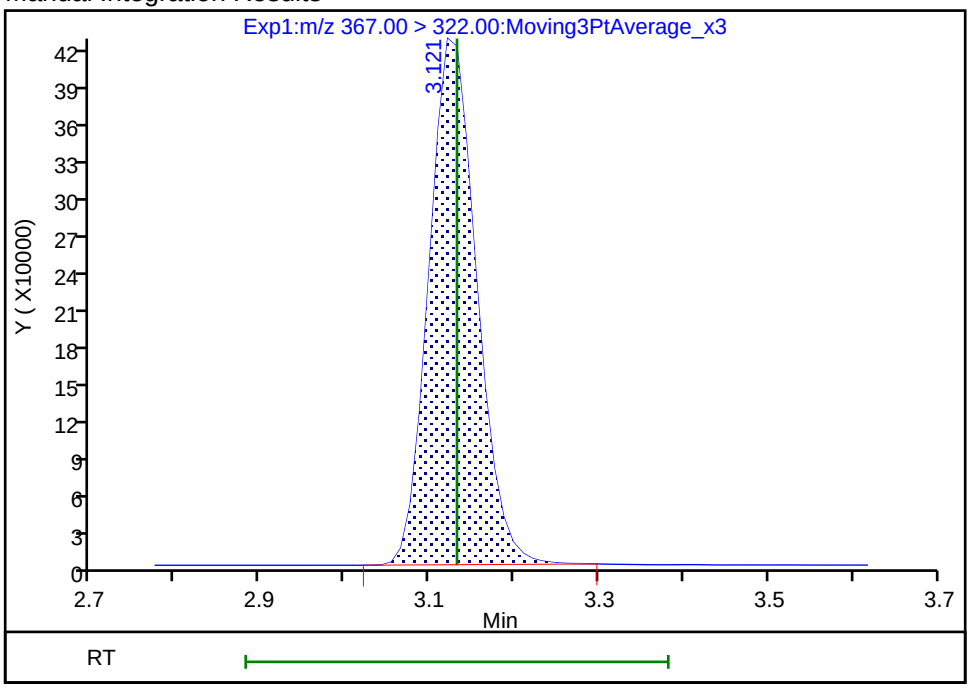
Processing Integration Results

RT: 3.12
Area: 1679302
Amount: 1.330071
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 1671306
Amount: 1.328683
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:28:06

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

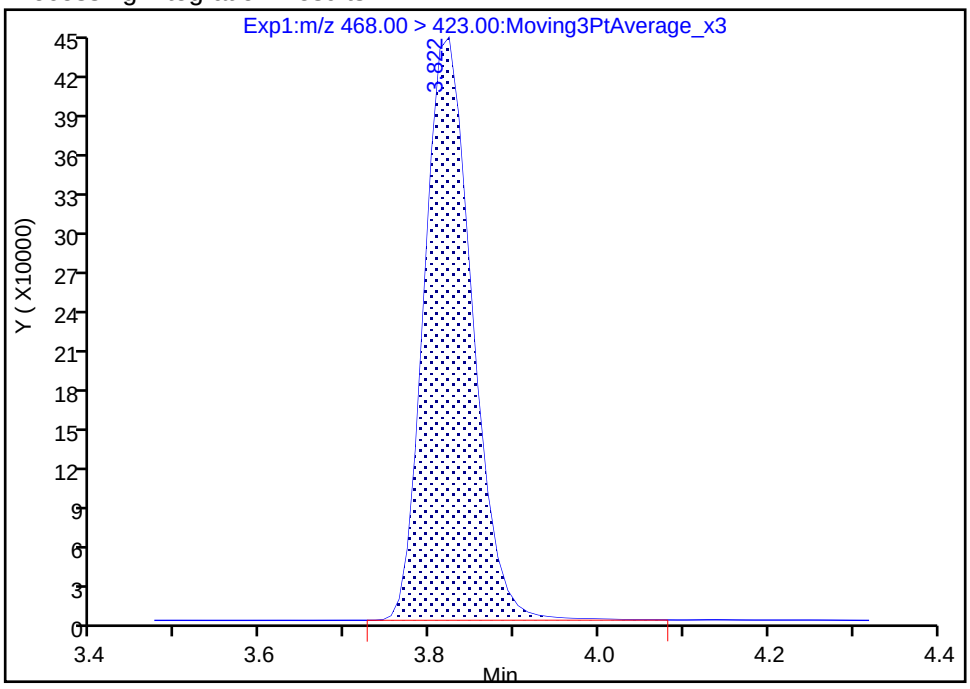
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

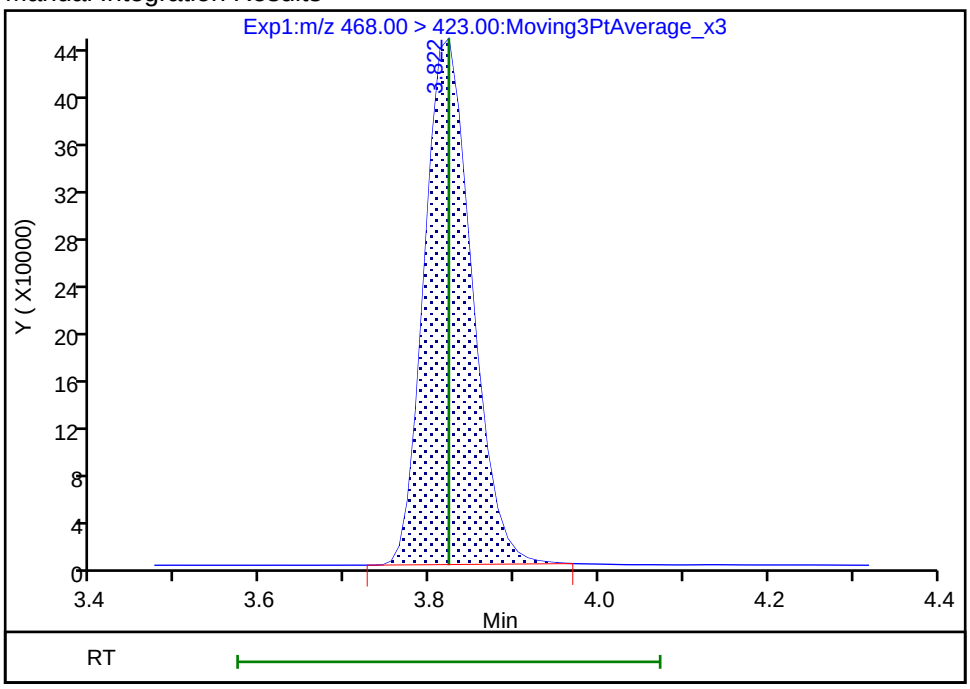
Processing Integration Results

RT: 3.82
Area: 1730569
Amount: 1.204068
Amount Units: ng/ml



Manual Integration Results

RT: 3.82
Area: 1717874
Amount: 1.195235
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:32:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

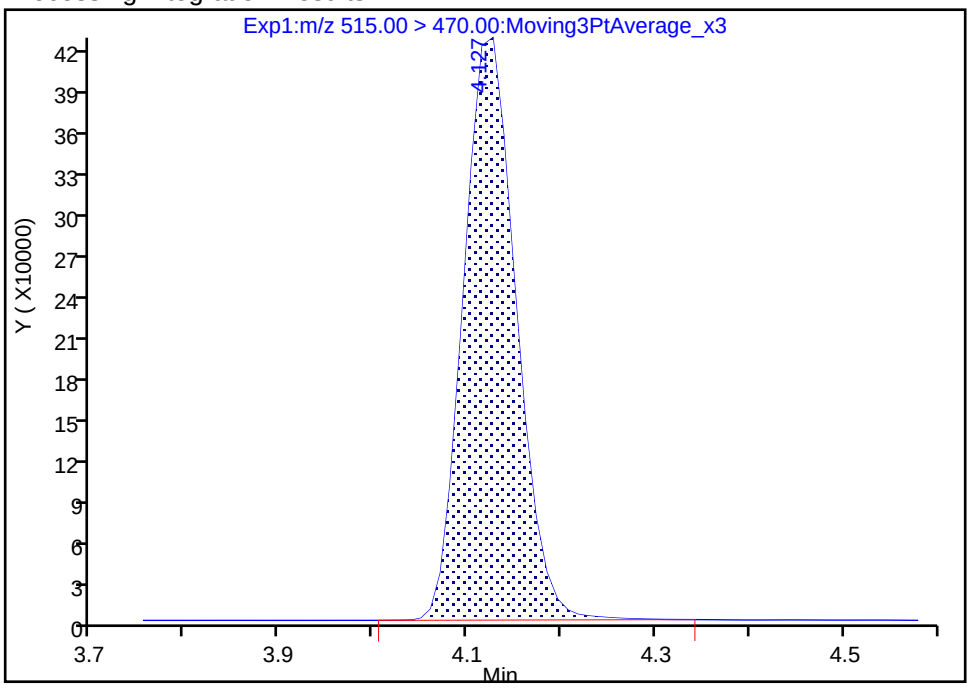
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d				
Injection Date:	13-Jun-2022 17:49:53	Instrument ID:	LC812		
Lims ID:	MB 200-180717/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

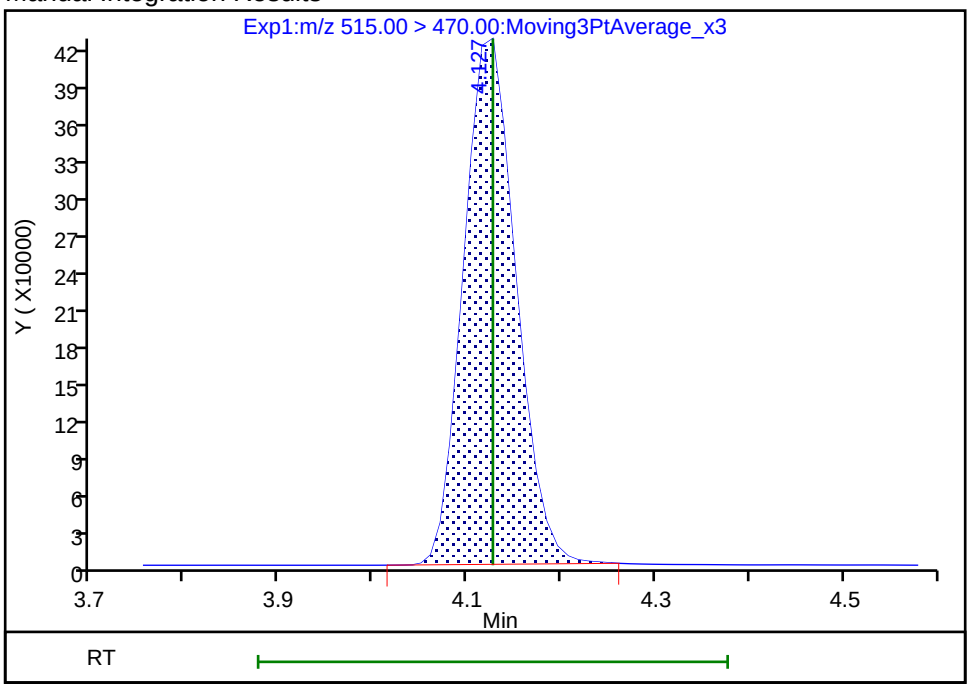
Processing Integration Results

RT: 4.13
Area: 1638926
Amount: 1.184233
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 1628603
Amount: 1.176774
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:32:25

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

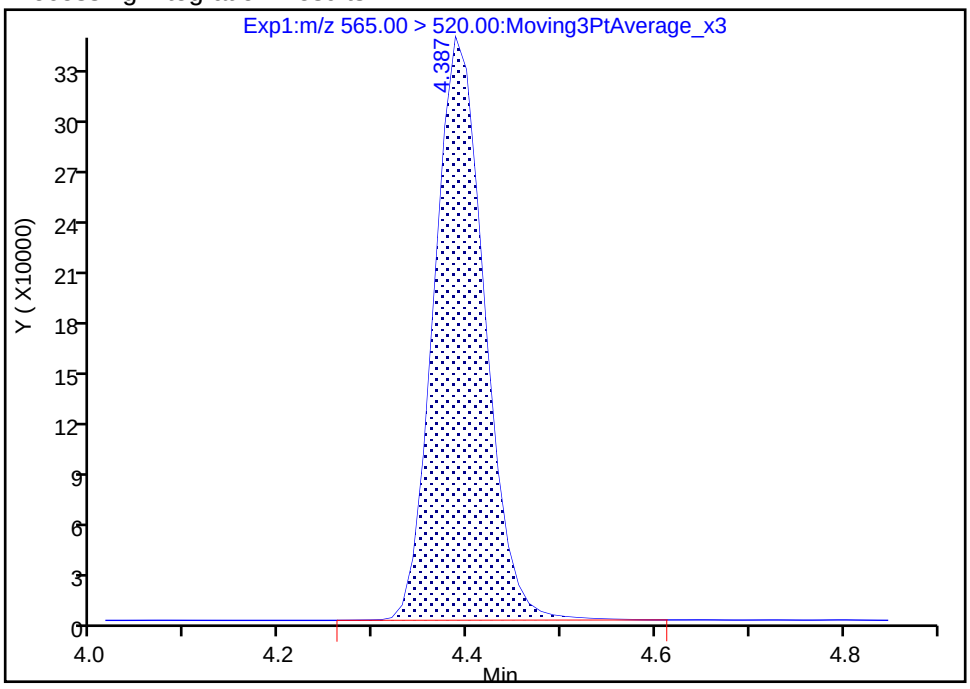
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d				
Injection Date:	13-Jun-2022 17:49:53	Instrument ID:	LC812		
Lims ID:	MB 200-180717/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

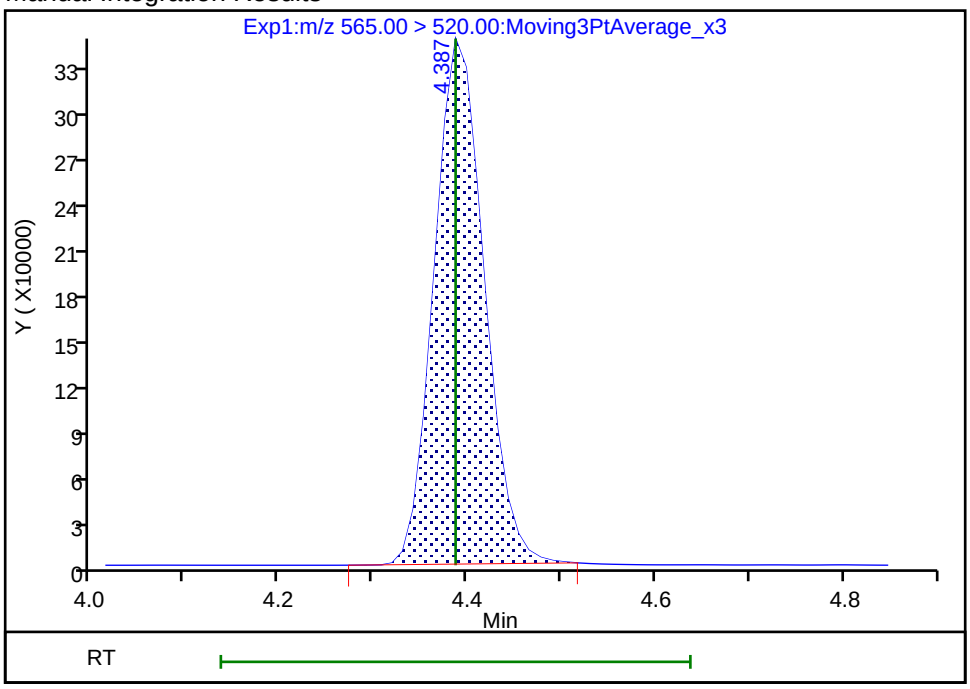
Processing Integration Results

RT: 4.39
Area: 1279560
Amount: 1.151546
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 1267048
Amount: 1.140286
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:32:48

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

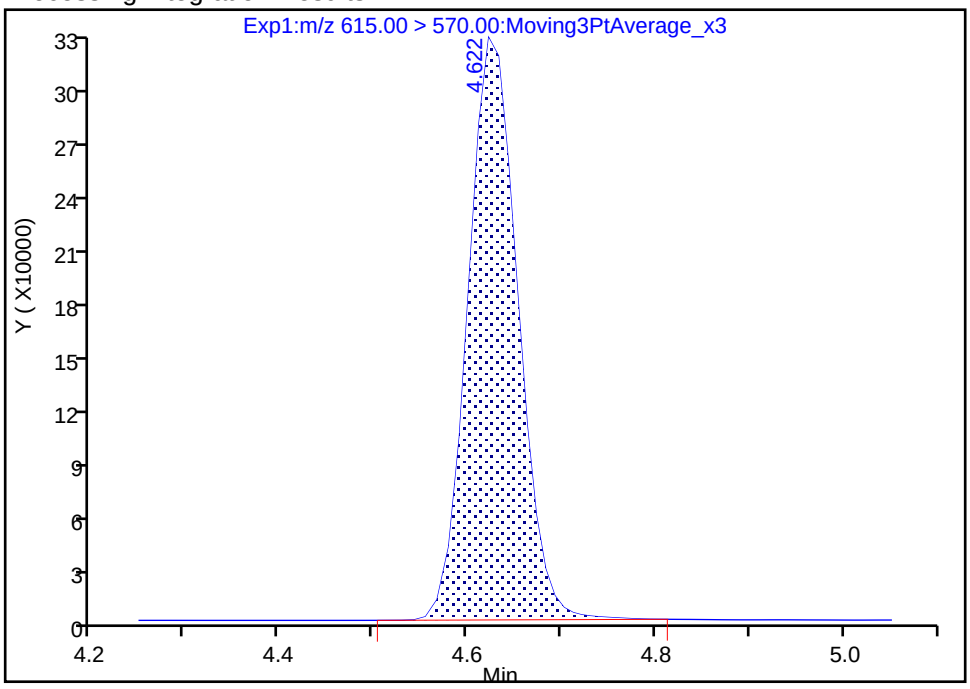
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d				
Injection Date:	13-Jun-2022 17:49:53	Instrument ID:	LC812		
Lims ID:	MB 200-180717/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 36 13C2 PFDoA, CAS: STL00998

Signal: 1

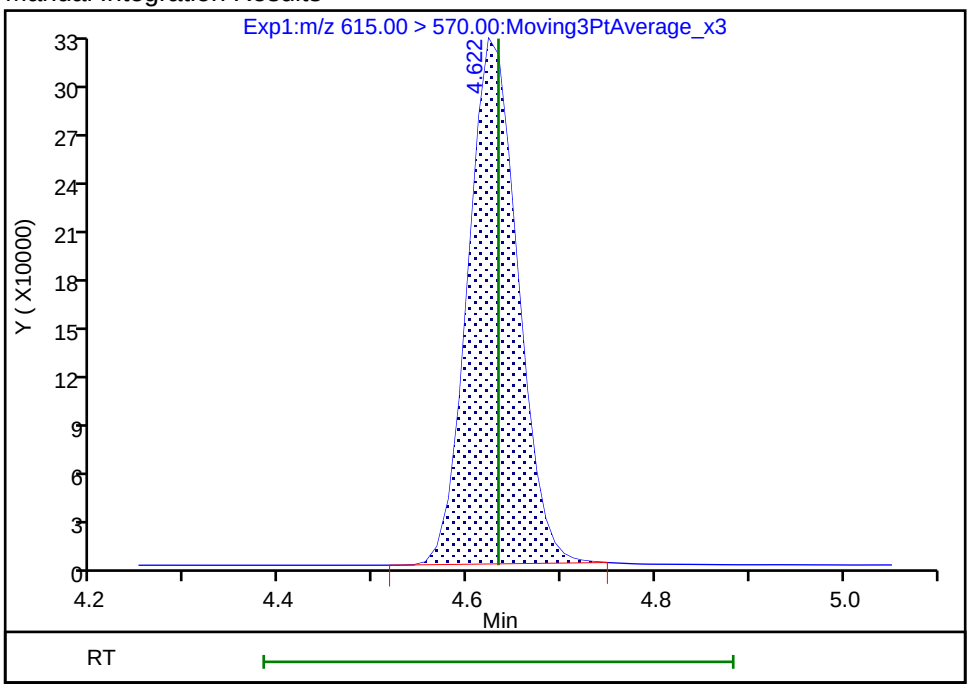
Processing Integration Results

RT: 4.62
Area: 1212650
Amount: 1.021885
Amount Units: ng/ml



Manual Integration Results

RT: 4.62
Area: 1202608
Amount: 1.013423
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:33:04

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

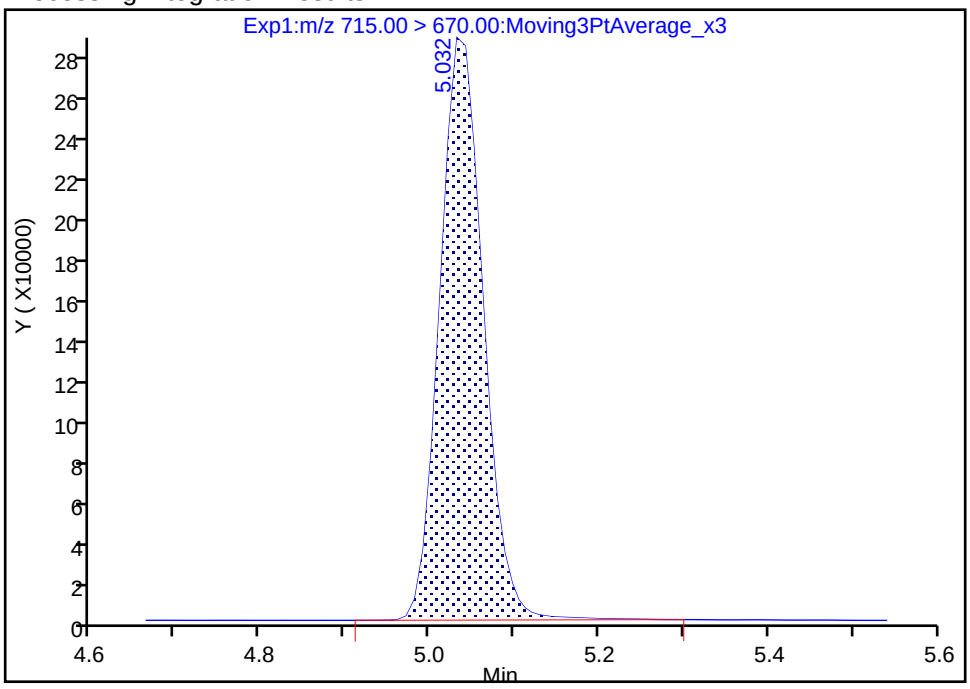
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

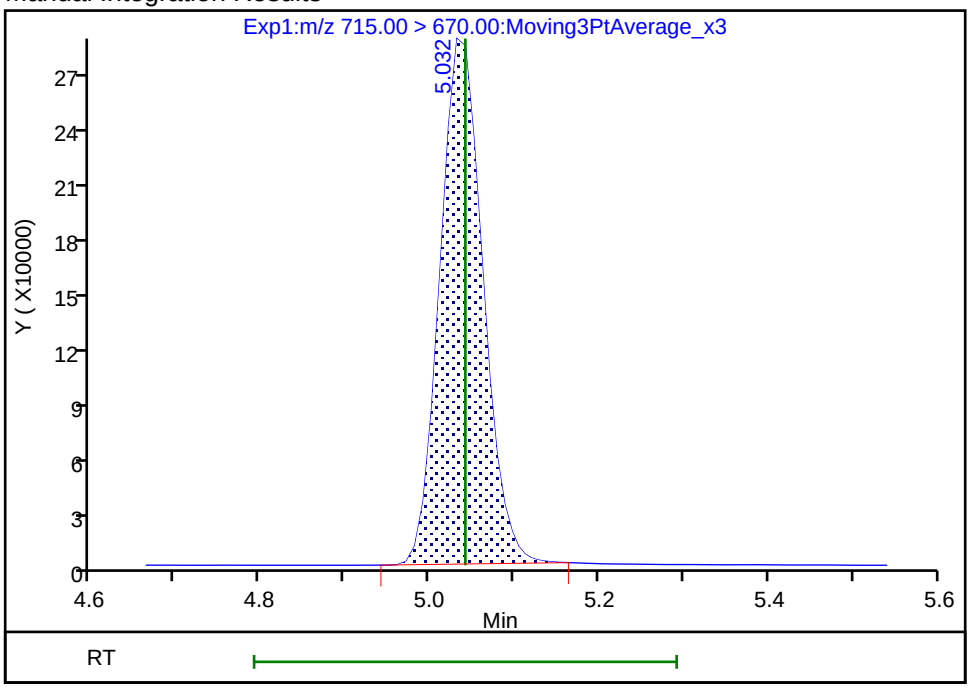
Processing Integration Results

RT: 5.03
Area: 1015939
Amount: 1.047501
Amount Units: ng/ml



Manual Integration Results

RT: 5.03
Area: 1004851
Amount: 1.036069
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:33:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

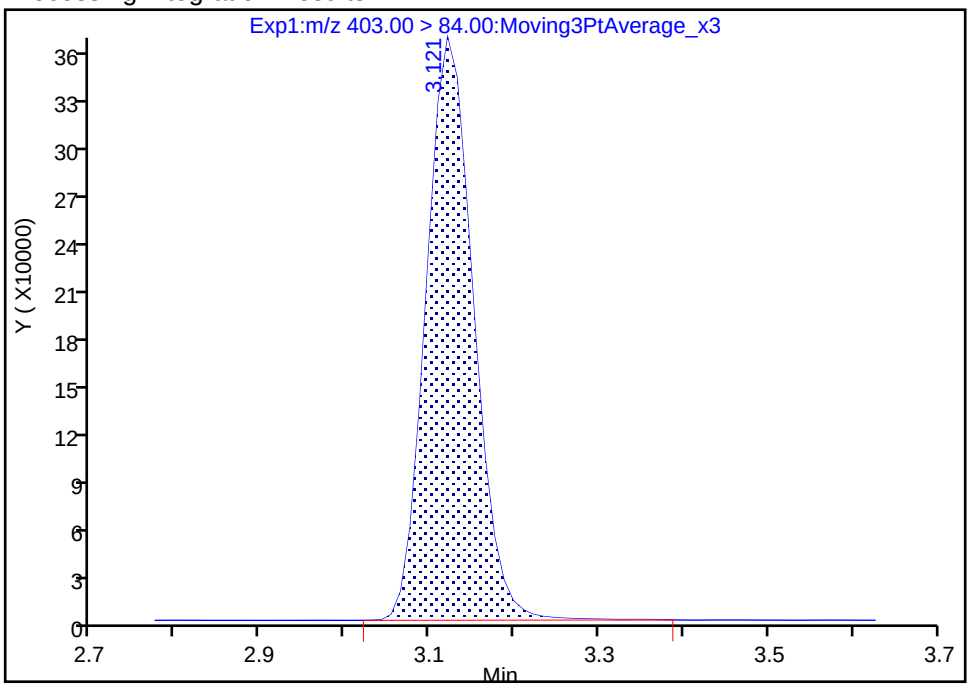
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

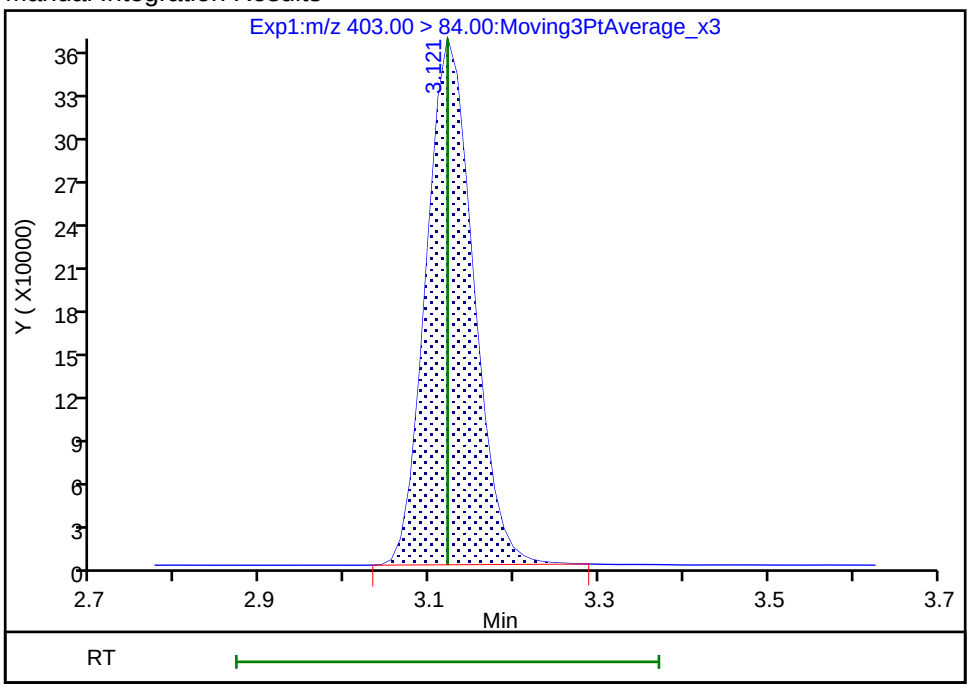
Processing Integration Results

RT: 3.12
Area: 1402220
Amount: 1.080422
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 1395525
Amount: 1.079280
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:27:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

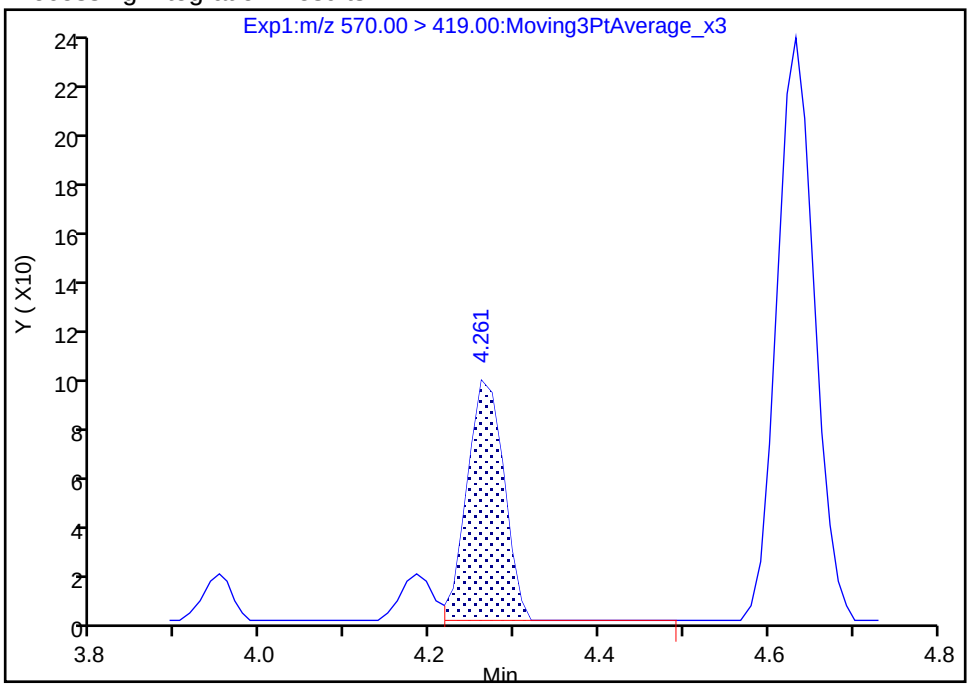
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

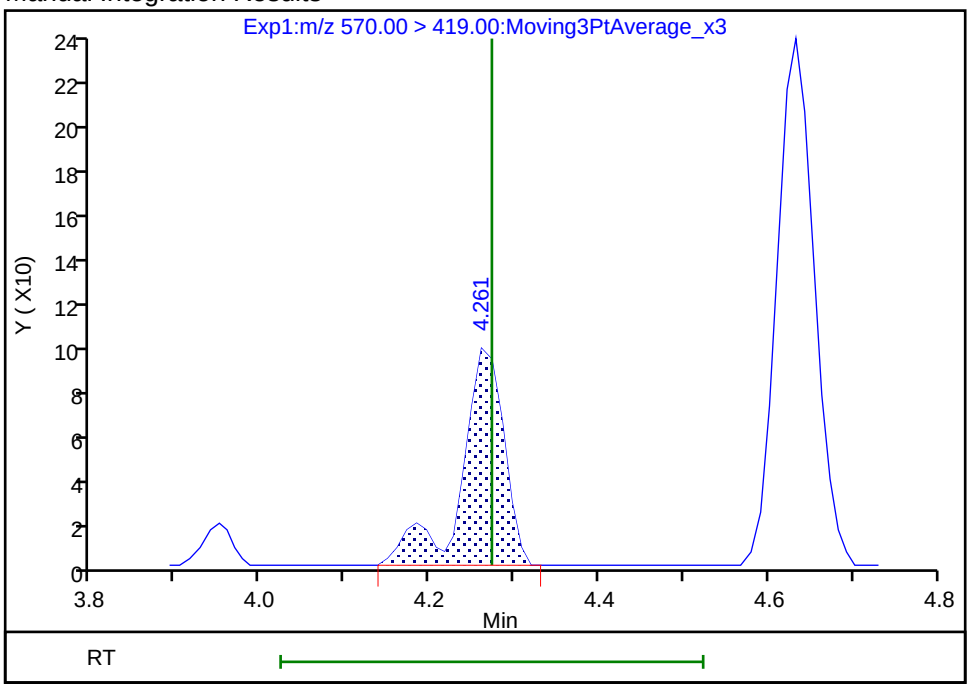
Processing Integration Results

RT: 4.26
Area: 294
Amount: 0.001588
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 343
Amount: 0.001866
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:54:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

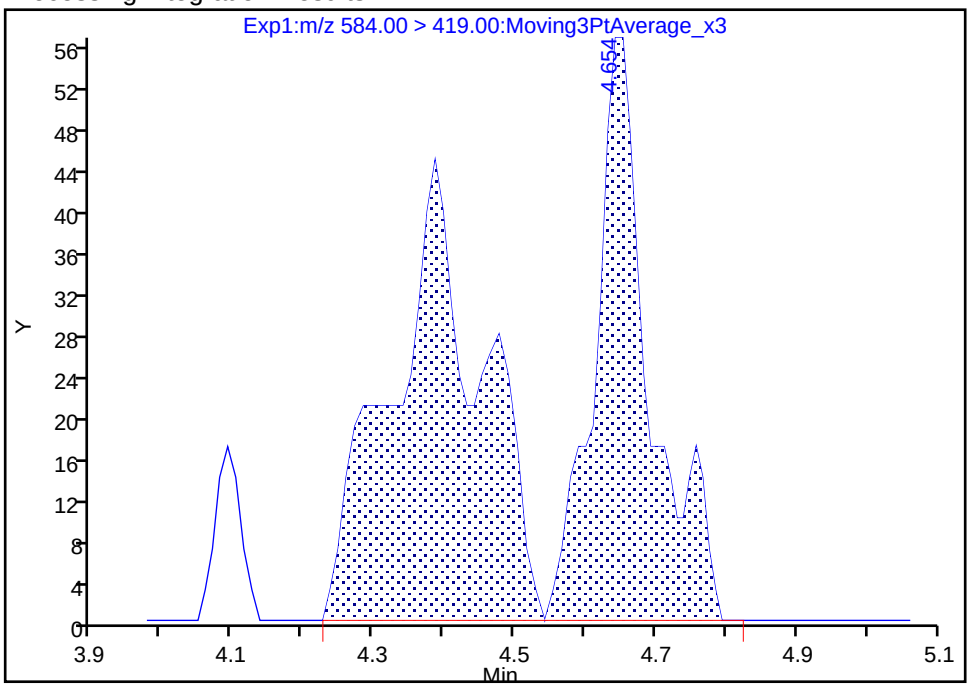
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

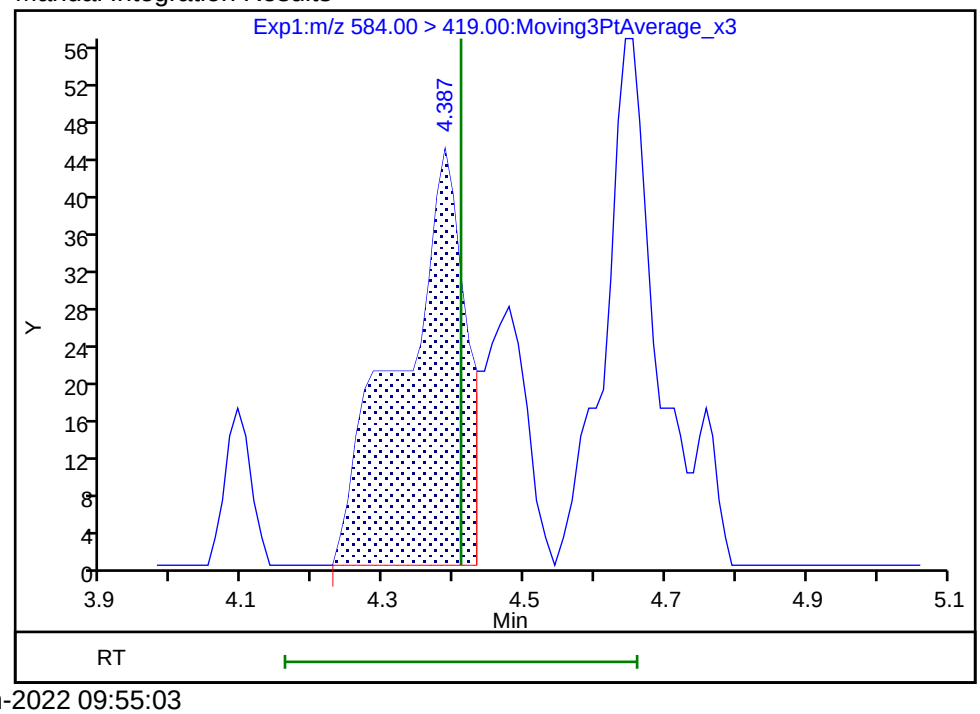
Processing Integration Results

RT: 4.65
Area: 711
Amount: 0.003825
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 282
Amount: 0.001523
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:55:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

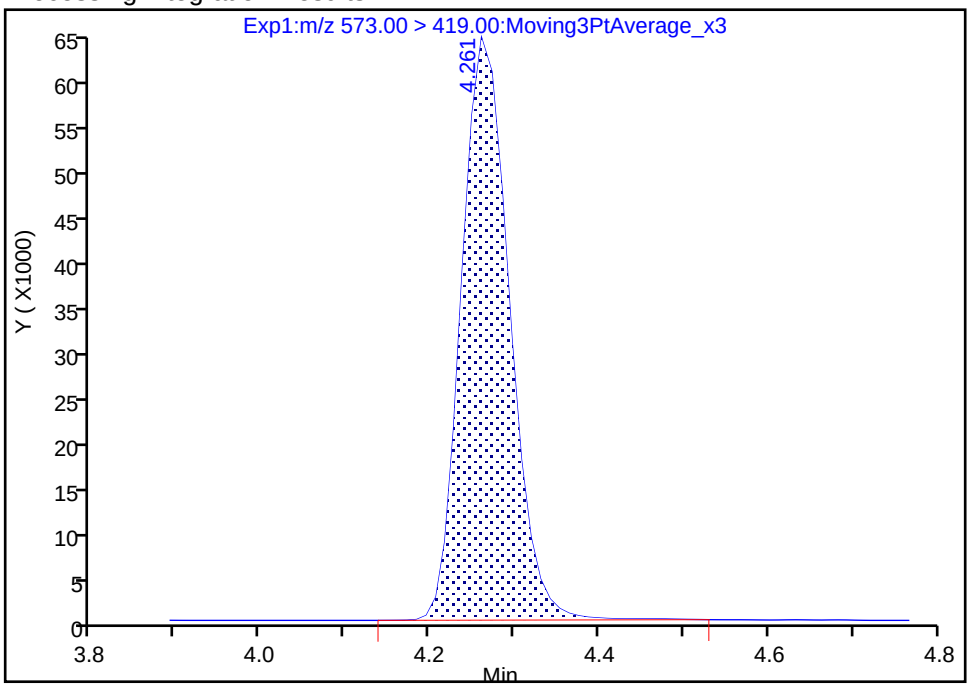
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

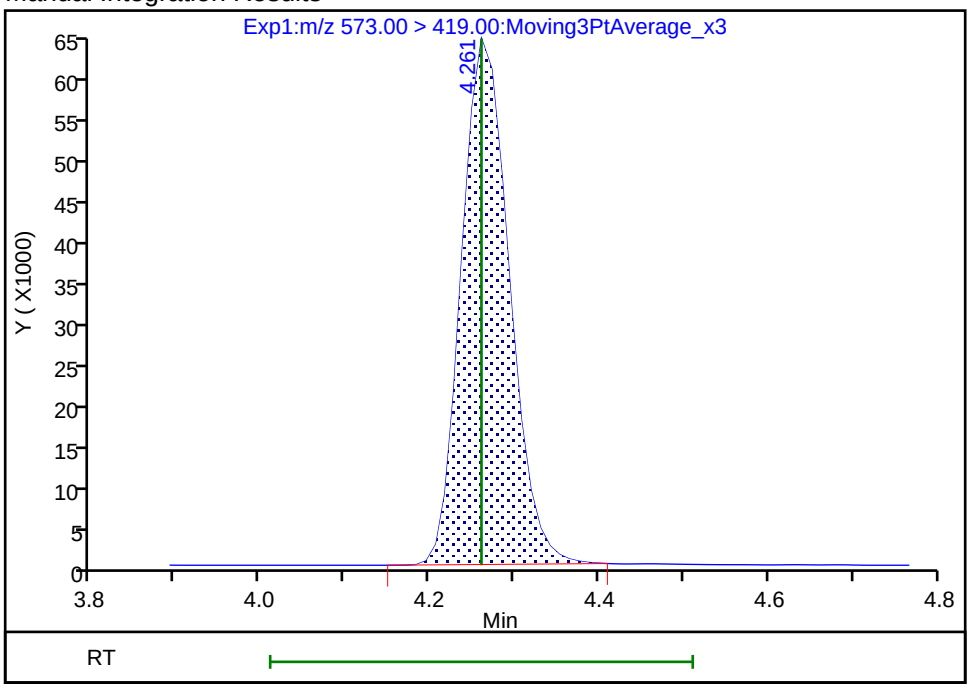
Processing Integration Results

RT: 4.26
Area: 254400
Amount: 1.384874
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 252609
Amount: 1.375124
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:32:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

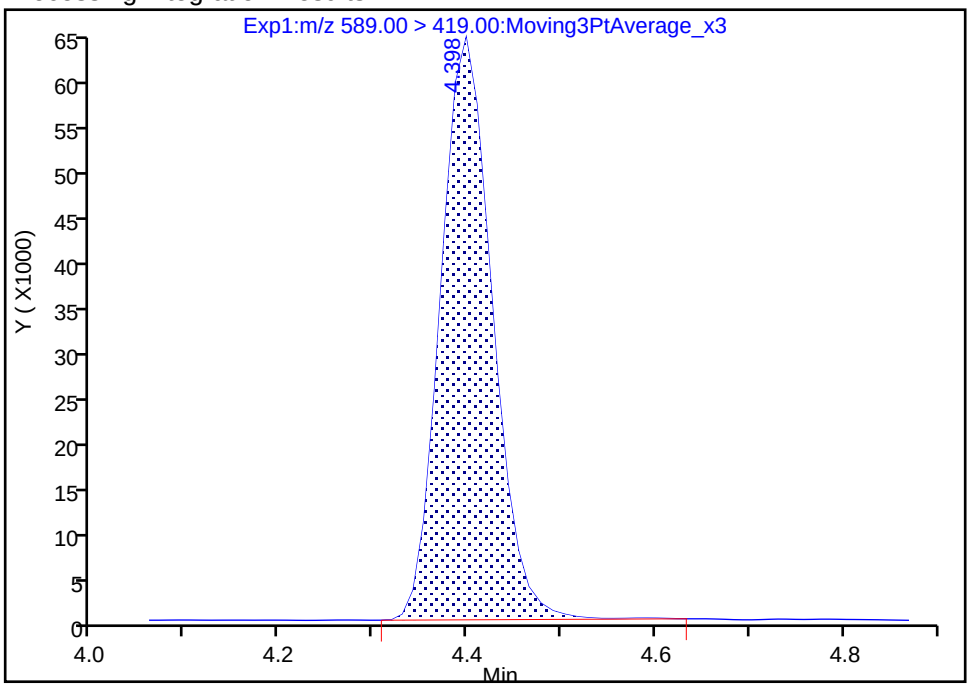
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

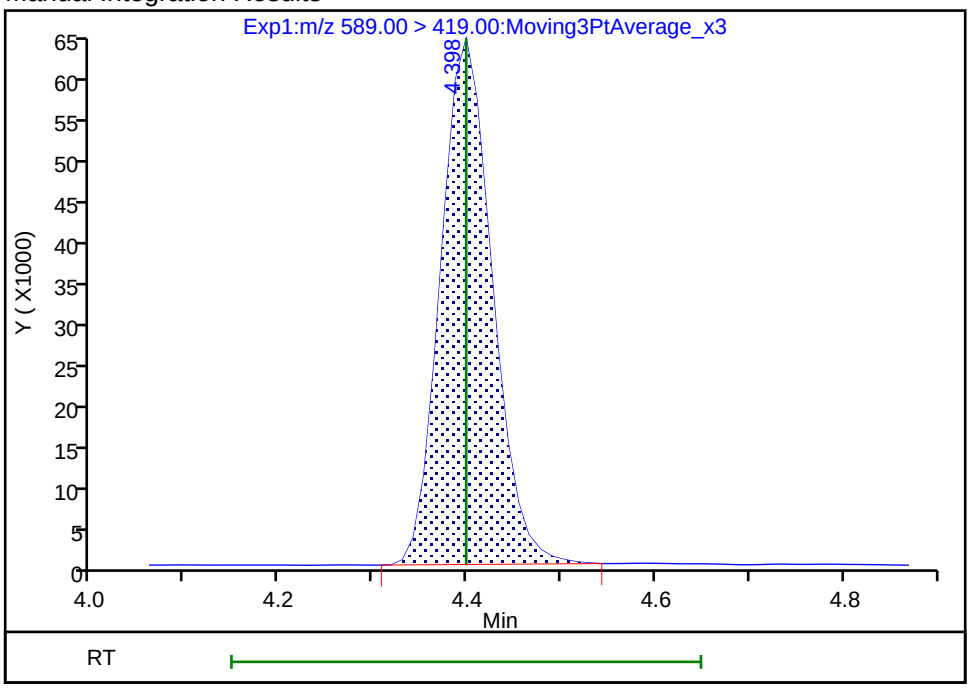
Processing Integration Results

RT: 4.40
Area: 247673
Amount: 1.380295
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 246776
Amount: 1.375296
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:32:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

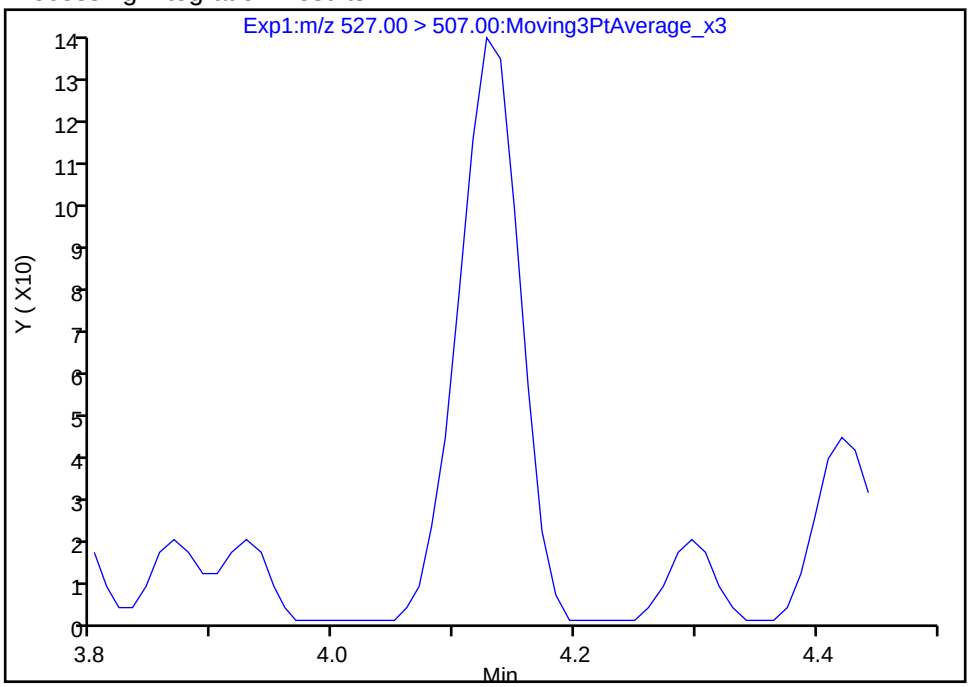
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

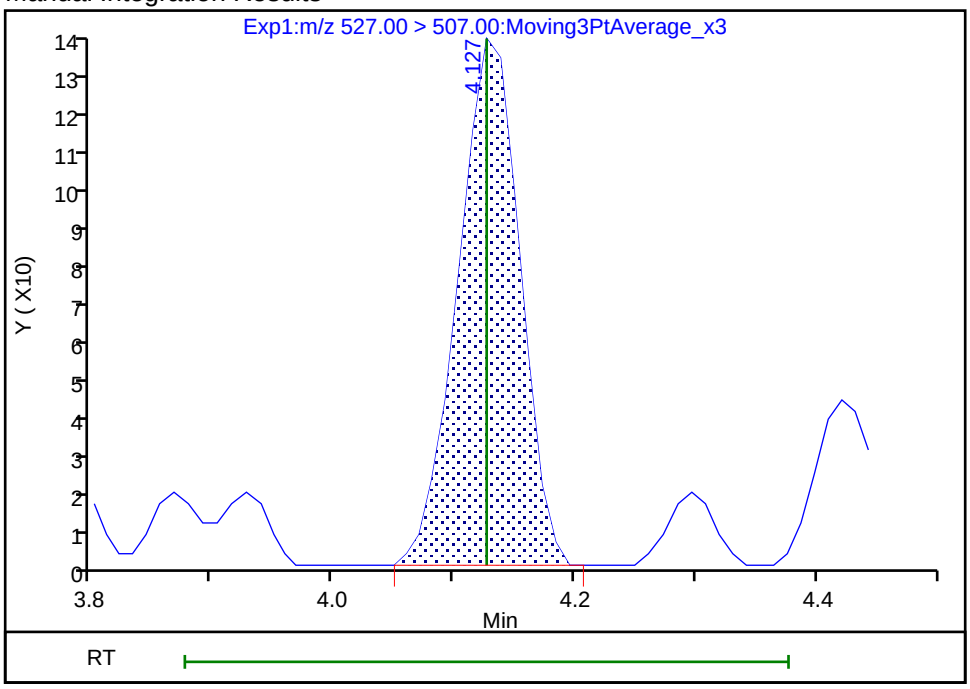
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.13
Area: 488
Amount: 0.001885
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:54:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

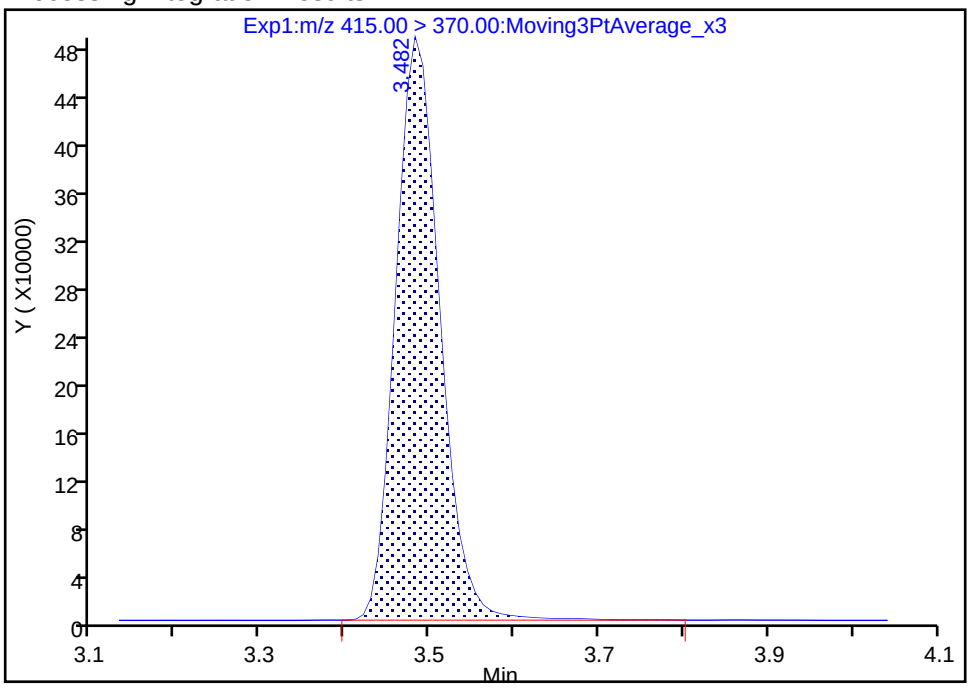
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A06.d
Injection Date: 13-Jun-2022 17:49:53 Instrument ID: LC812
Lims ID: MB 200-180717/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

* 62 13C2 PFOA, CAS: STL00623

Signal: 1

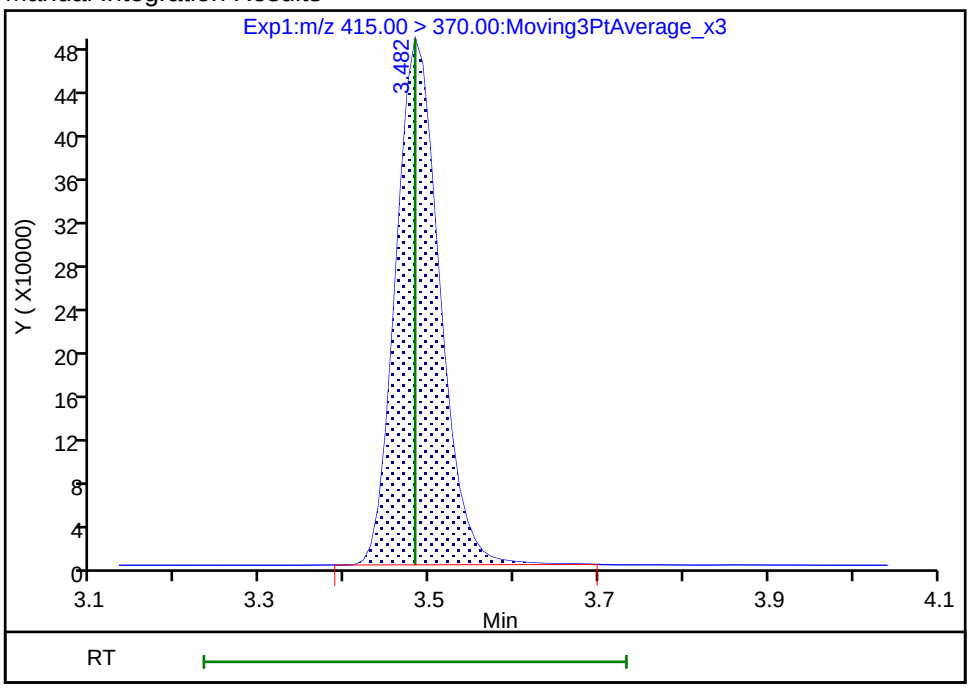
Processing Integration Results

RT: 3.48
Area: 1762784
Amount: 1.250000
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 1756224
Amount: 1.250000
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:28:16
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: Lab Sample ID: CCB 200-180744/4

Matrix: Water Lab File ID: PA220613A04.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 06/13/2022 17:33

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 180744 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.13	
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.050	
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.050	
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.050	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.050	
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.050	
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.050	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.050	
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.050	
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.050	
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.050	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.050	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.050	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.050	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.050	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.050	
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		0.050	
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.13	
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.13	
27619-97-2	6:2 FTS	ND		0.13	
39108-34-4	8:2 FTS	ND		0.050	

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: Lab Sample ID: CCB 200-180744/4

Matrix: Water Lab File ID: PA220613A04.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 06/13/2022 17:33

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 180744 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	86		50-150
STL00992	13C4 PFBA	110		50-150
STL01893	13C5 PFPeA	106		50-150
STL00993	13C2 PFHxA	104		50-150
STL01892	13C4 PFHpA	97		50-150
STL00990	13C4 PFOA	103		50-150
STL00995	13C5 PFNA	99		50-150
STL00996	13C2 PFDA	95		50-150
STL00997	13C2 PFUnA	92		50-150
STL00998	13C2 PFDoA	87		50-150
STL02116	13C2 PFTeDA	92		50-150
STL02337	13C3 PFBS	97		50-150
STL00994	18O2 PFHxS	93		50-150
STL00991	13C4 PFOS	86		50-150
STL02118	d3-NMeFOSAA	111		50-150
STL02117	d5-NEtFOSAA	114		50-150
STL02279	M2-6:2 FTS	91		50-150
STL02280	M2-8:2 FTS	90		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 13-Jun-2022 17:33:32 ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCB
Misc. Info.: 200-0051257-004 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 14-Jun-2022 14:34:18 Calib Date: 05-May-2022 15:54:29
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1636

First Level Reviewer: khanphomeea Date: 14-Jun-2022 08:35:03
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.093	2.085	0.008	0.600	2154191	1.37		110	13800	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.093	2.093	0.0	1.000	19007	0.0117			2.5	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.413	2.400	0.013	0.691	1594905	1.33		106	3354	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.413	2.400	0.013	1.000	12492	0.009607			0.6	
D 47 13C3 PFBS										
301.90 > 80.00	2.426	2.427	-0.001	0.695	1958288	1.12		96.6	337137	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.426	2.427	-0.001	1.000	13220	0.007200	Target=2.15		14.3	M
298.90 > 99.00	2.426	2.427	-0.001	1.000	5264		2.51(1.07-3.22)		4.8	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.725	2.725	0.0	0.781	151627	1.05		90.0	133	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.725	2.725	0.0	1.000	2434	0.007465			28.9	
D 7 13C2 PFHxA										
315.00 > 270.00	2.762	2.762	0.0	0.791	1592324	1.29		104	3641	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.762	2.762	0.0	1.000	14367	0.0104	Target=12.59		2.8	
313.00 > 119.00	2.762	2.762	0.0	1.000	1522		9.44(6.29-18.88)		2.5	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.762	2.762	0.0	0.882	12665	0.008101	Target=2.96		28.9	
349.00 > 99.00	2.762	2.762	0.0	0.882	3767		3.36(1.48-4.44)		8.7	M
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.871	2.871	0.0	0.823	261095	1.24		99.2	1689	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.883	2.871	0.012	1.004	1807	0.007928			42.3	
D 11 18O2 PFHxS										M
403.00 > 84.00	3.132	3.121	0.011	0.897	1496874	1.10		92.8	2004	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.132	3.121	0.011	1.000	15314	0.0109	Target=3.53		43.8	M
399.00 > 99.00	3.132	3.121	0.011	1.000	5310		2.88(1.76-5.29)		8.6	M
D 9 13C4 PFHpA										M
367.00 > 322.00	3.132	3.132	0.0	0.897	1609680	1.21		97.1	2432	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.132	3.132	0.0	1.000	11753	0.009031	Target=3.75		4.0	
363.00 > 169.00	3.132	3.132	0.0	1.000	3766		3.12(1.87-5.62)		5.4	M
77 DONA										M
377.00 > 251.00	3.176	3.165	0.011	0.836	25203	0.008573	Target=2.77		43.0	M
377.00 > 85.00	3.176	3.165	0.011	0.836	9551		2.64(1.38-4.15)		18.7	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.472	3.474	-0.002	0.914	9116	0.008243	Target=4.90		39.6	M
449.00 > 99.00	3.481	3.474	0.007	0.916	1572		5.80(2.45-7.35)		6.0	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.472	3.474	-0.002	0.995	239238	1.08		90.6	627	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.472	3.474	-0.002	1.000	4989	-0.0113			2.4	
* 62 13C2 PFOA										
415.00 > 370.00	3.490	3.482	0.008		1852455	1.25			4585	
D 14 13C4 PFOA										M
417.00 > 372.00	3.490	3.482	0.008	1.000	1794604	1.29		103	2092	M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.490	3.482	0.008	1.000	17263	0.0107	Target=2.68		1.5	
413.00 > 169.00	3.490	3.482	0.008	1.000	5084		3.40(1.34-4.02)		9.6	M
D 18 13C4 PFOS										M
503.00 > 80.00	3.801	3.802	-0.001	1.089	1099509	1.03		85.9	3287	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.801	3.802	-0.001	1.000	9059	0.009220	Target=4.47		7.4	M
499.00 > 99.00	3.811	3.802	0.009	1.003	2860		3.17(2.24-6.71)		8.5	M
D 19 13C5 PFNA										
468.00 > 423.00	3.821	3.822	-0.001	1.095	1883090	1.24		99.4	3028	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.832	3.822	0.010	1.003	13999	0.009608	Target=7.74		3.3	M
463.00 > 169.00	3.832	3.822	0.010	1.003	1859		7.53(3.87-11.61)		11.9	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.969	3.969	0.0	1.044	12221	0.007527			66.9	M
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.093	4.093	0.0	1.077	4695	0.006309	Target=2.49		39.7	M
549.00 > 99.00	4.093	4.093	0.0	1.077	2241		2.10(1.24-3.73)		10.3	M
D 23 13C2 PFDA										M
515.00 > 470.00	4.127	4.127	0.0	1.183	1740817	1.19		95.4	1991	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.127	4.127	0.0	1.000	11298	0.007615	Target=9.31		5.8	M
513.00 > 169.00	4.127	4.127	0.0	1.000	926		12.20(4.65-13.96)		3.4	M
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.138	4.127	0.011	1.000	3154	0.0118			43.7	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.138	4.127	0.011	1.186	287249	1.07		89.8	866	
D 21 13C8 FOSA										M
506.00 > 78.00	4.196	4.195	0.001	1.202	1722729	1.07		85.8	1951	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.196	4.195	0.001	1.000	5547	0.003966			16.4	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.273	4.261	0.012	1.224	269073	1.39		111	1929	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.273	4.273	0.0	1.000	2105	0.0108			5.4	
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.365	4.365	0.0	1.148	4643	0.008182	Target=2.56		62.0	M
599.00 > 99.00	4.365	4.365	0.0	1.148	1745		2.66(1.28-3.84)		21.2	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.410	4.387	0.023	1.003	7353	0.006589	Target=9.41		4.3	
563.00 > 169.00	4.398	4.387	0.011	1.000	841		8.74(4.70-14.11)		12.3	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.398	4.387	0.011	1.260	1353525	1.15		92.4	2418	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.398	4.398	0.0	1.260	270708	1.43		114	1245	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.410	4.410	0.0	1.003	2123	0.0104			30.2	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.491	4.491	0.0	1.182	14934	0.006648			42.5	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.633	4.622	0.011	1.000	9241	0.008215	Target=6.95		1.6	M
613.00 > 169.00	4.633	4.622	0.011	1.000	1406		6.57(3.48-10.43)		17.5	
D 36 13C2 PFDoA										M
615.00 > 570.00	4.633	4.633	0.0	1.328	1363339	1.09		87.1	1380	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.643	4.654	-0.011	1.122	1430	0.0108			40.4	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.813	4.803	0.010	1.266	1721	0.006674	Target=0.55		21.5	M
699.00 > 99.00	4.803	4.803	0.0	1.264	3836		0.45(0.27-0.82)		72.4	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.848	4.848	0.0	1.046	7644	0.007979	Target=4.44		1.5	M
663.00 > 169.00	4.848	4.848	0.0	1.046	1492		5.12(2.22-6.66)		17.7	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.042	5.032	0.010	1.000	1377	0.009506	Target=0.96		28.0	M
713.00 > 219.00	5.032	5.032	0.0	0.998	1257		1.10(0.48-1.44)		24.6	
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.042	5.042	0.0	1.445	1171816	1.15		91.6	1780	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.400	5.389	0.011	1.547	1234328	1.16		93.1	3426	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.400	5.400	0.0	1.000	16907	-0.000578	Target=4.90		3.7	M
813.00 > 169.00	5.389	5.400	-0.011	0.998	3391		4.99(2.45-7.36)		45.0	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.731	5.731	0.0	1.061	2940	0.004274	Target=4.81		1.0	M
913.00 > 169.00	5.731	5.731	0.0	1.061	556		5.29(2.40-7.21)		9.7	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCBLK20_00020 Amount Added: 100.00 Units: uL

Report Date: 14-Jun-2022 14:34:52 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d

Injection Date: 13-Jun-2022 17:33:32 Instrument ID: LC812

Lims ID: CCB

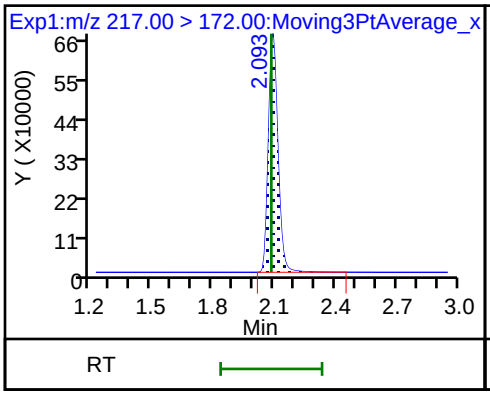
Client ID:

Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4

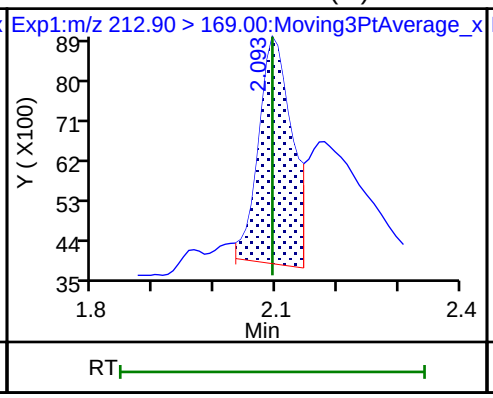
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

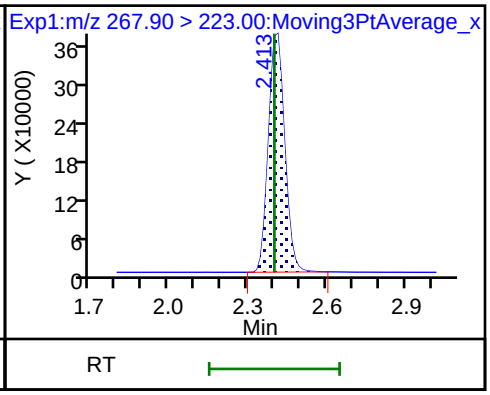
D 1 13C4 PFBA



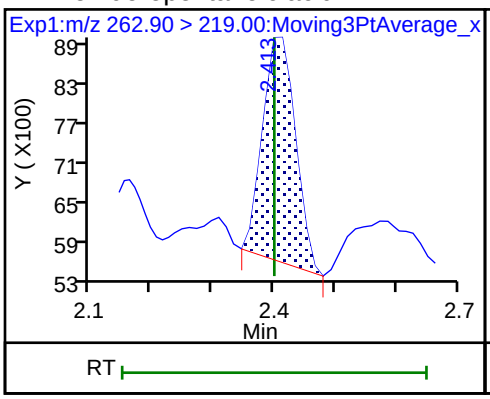
2 Perfluorobutanoic acid (M)



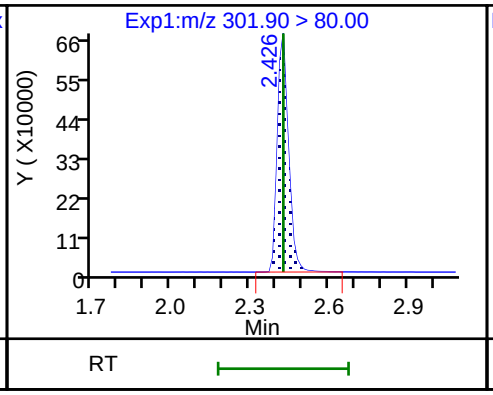
D 3 13C5 PFPeA



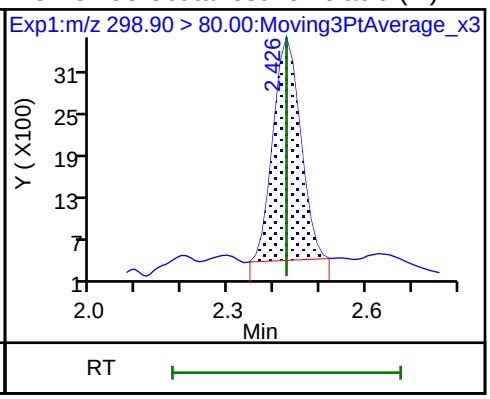
4 Perfluoropentanoic acid



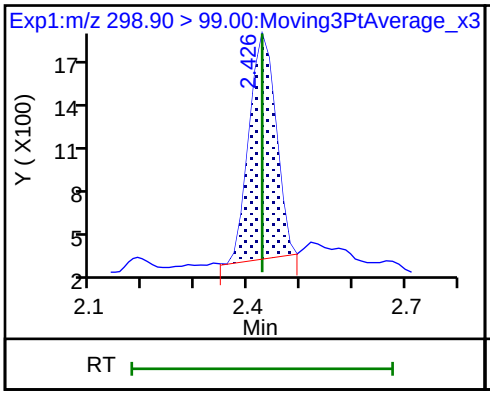
D 47 13C3 PFBS



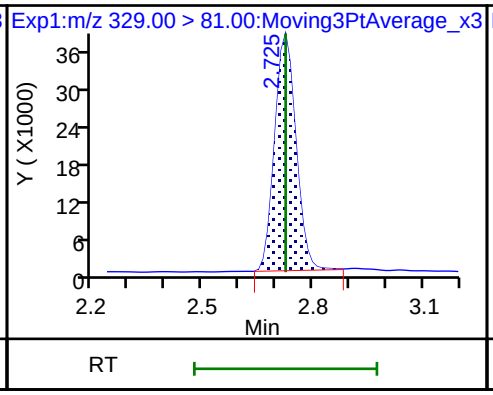
5 Perfluorobutanesulfonic acid (M)



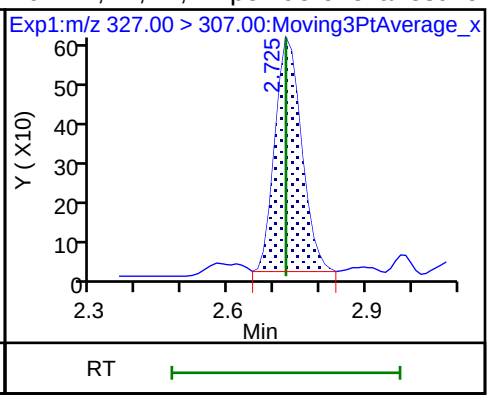
5 Perfluorobutanesulfonic acid



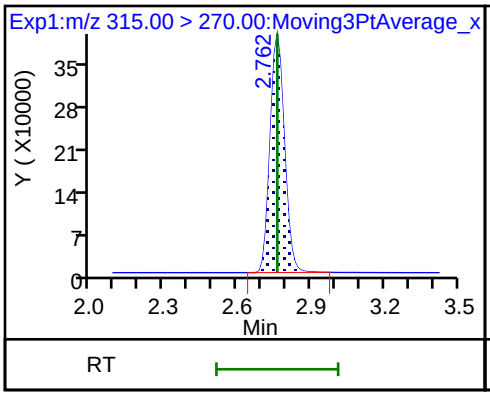
D 60 M2-4:2 FTS



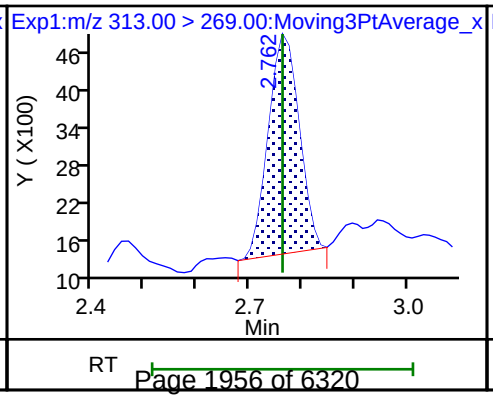
61 1H,1H,2H,2H-perfluorohexanesulfo



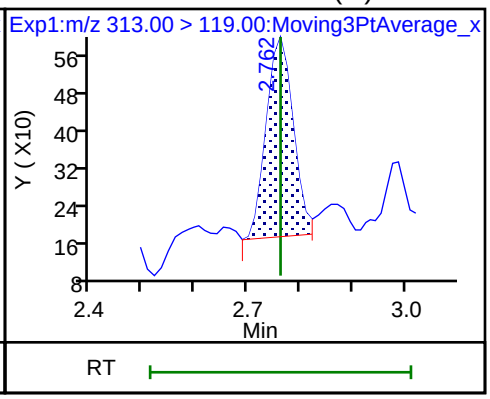
D 7 13C2 PFHxA



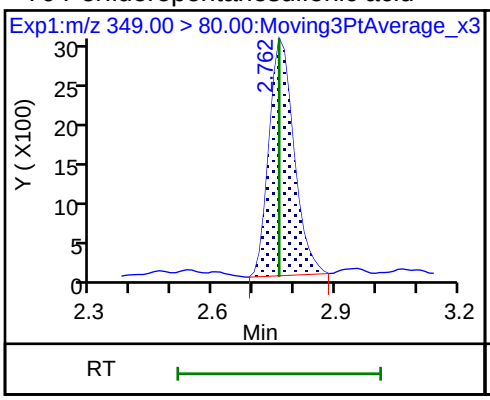
6 Perfluorohexanoic acid



6 Perfluorohexanoic acid (M)



70 Perfluoropentanesulfonic acid



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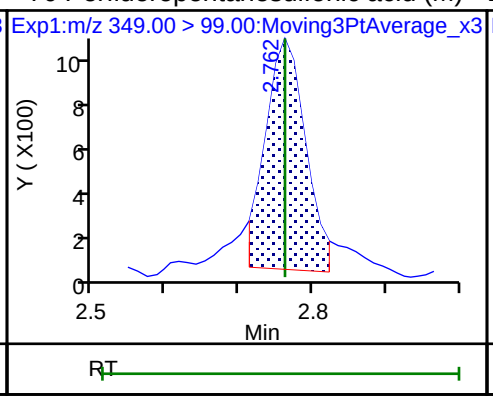
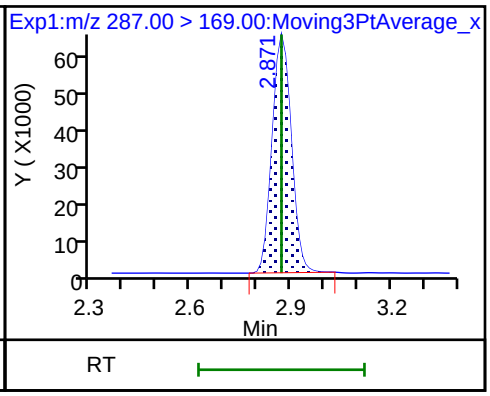
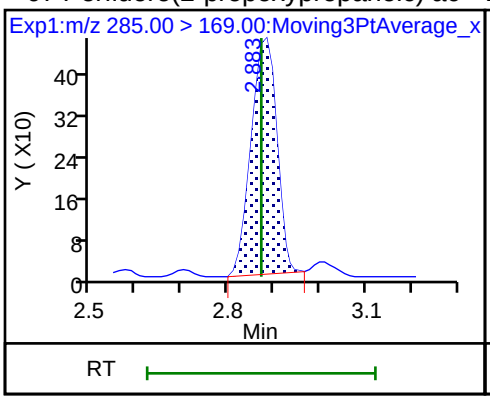


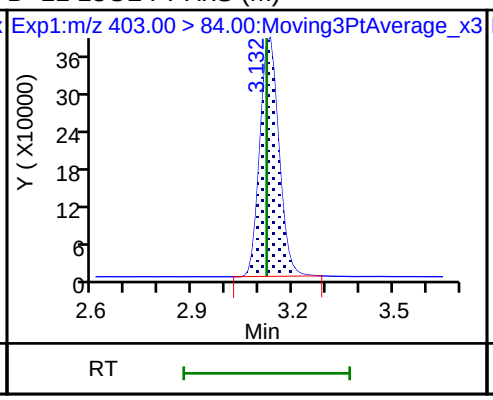
D 64 13C3 HFPO-DA



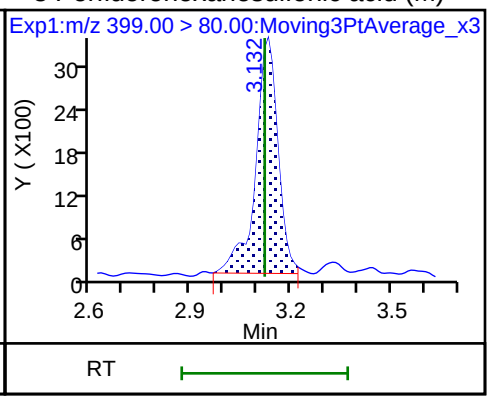
67 Perfluoro(2-propoxypropanoic) ac



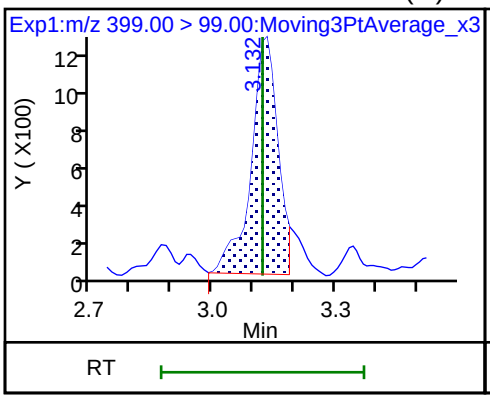
D 11 18O2 PFHxS (M)



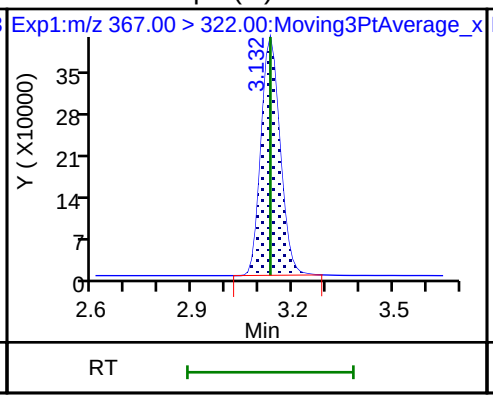
8 Perfluorohexanesulfonic acid (M)



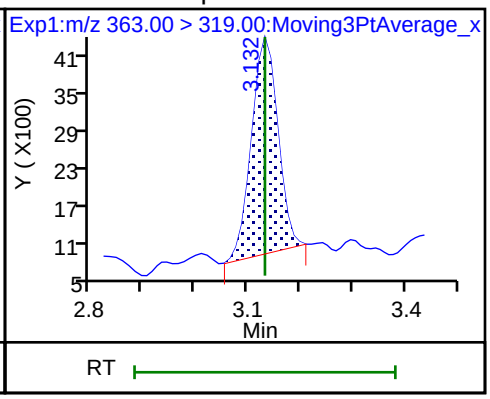
8 Perfluorohexanesulfonic acid (M)



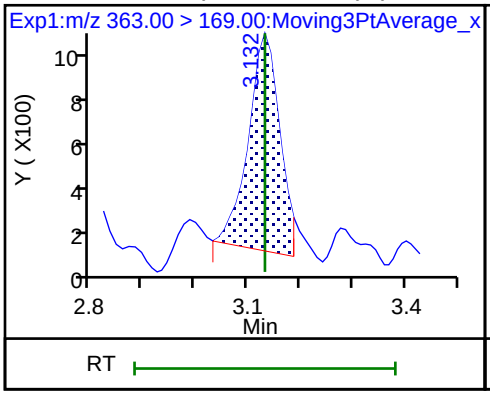
D 9 13C4 PFHpA (M)



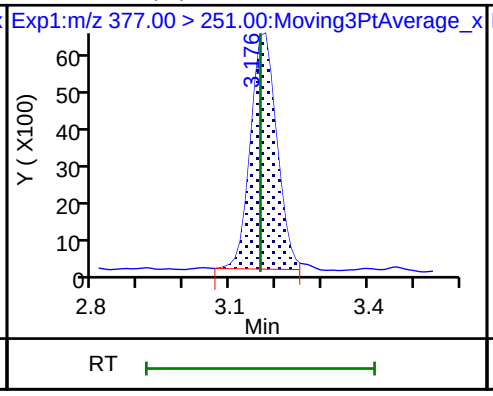
10 Perfluoroheptanoic acid



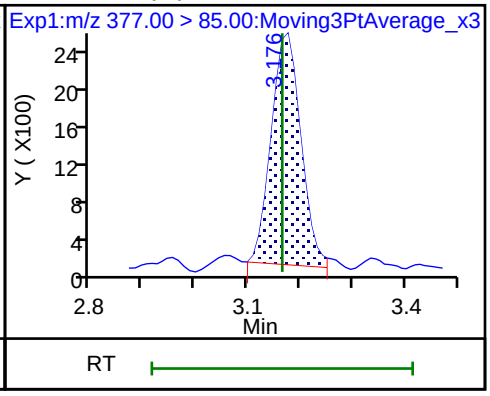
10 Perfluoroheptanoic acid (M)



77 DONA (M)



77 DONA (M)



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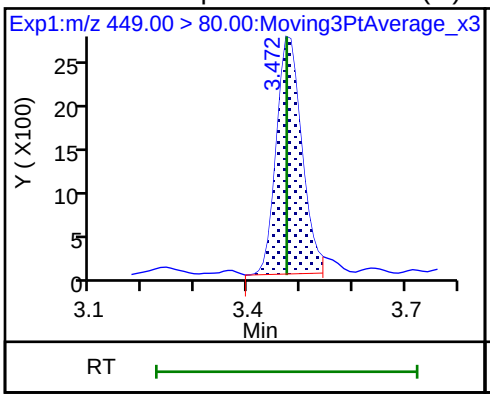
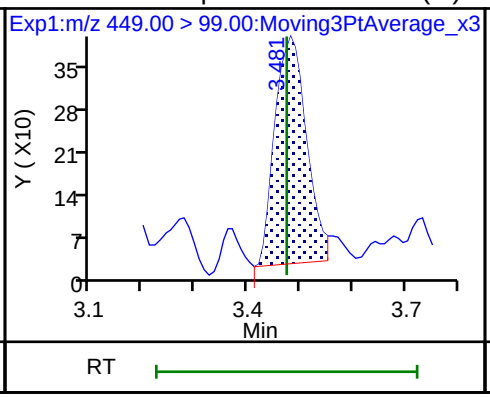
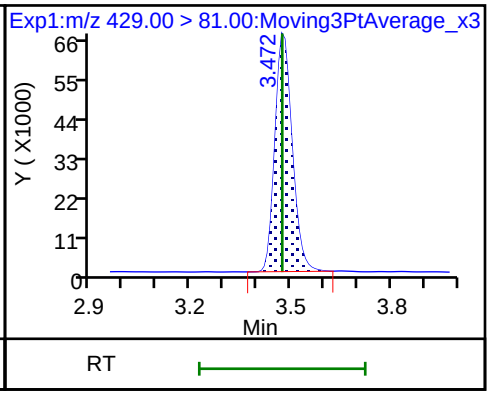


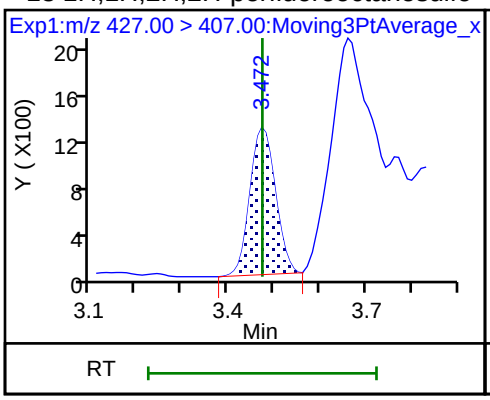
16 Perfluoroheptanesulfonic acid (M)

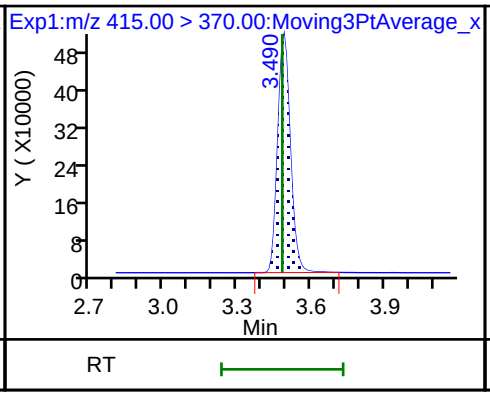


D 12 M2-6:2 FTS

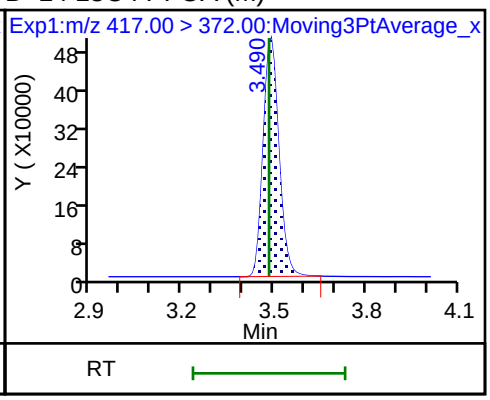


13 1H,1H,2H,2H-perfluorooctanesulfo * 62 13C2 PFOA

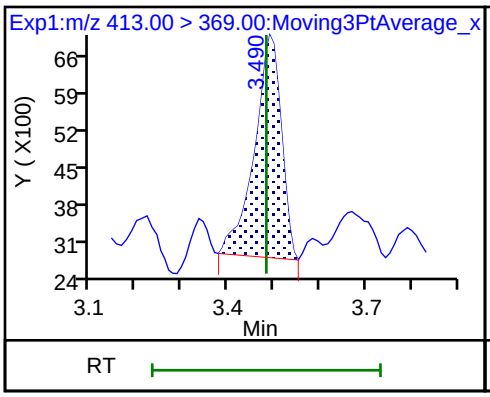




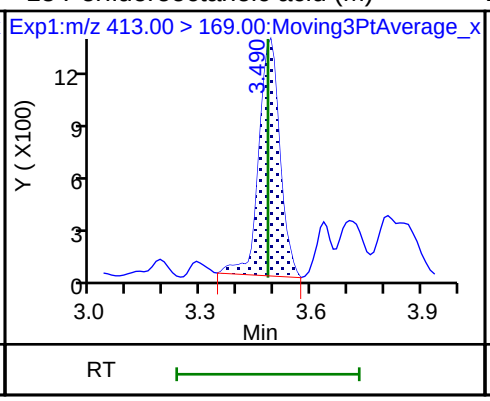
D 14 13C4 PFOA (M)



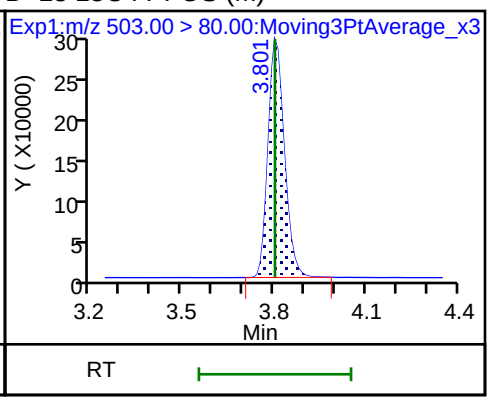
15 Perfluorooctanoic acid



15 Perfluorooctanoic acid (M)



D 18 13C4 PFOS (M)



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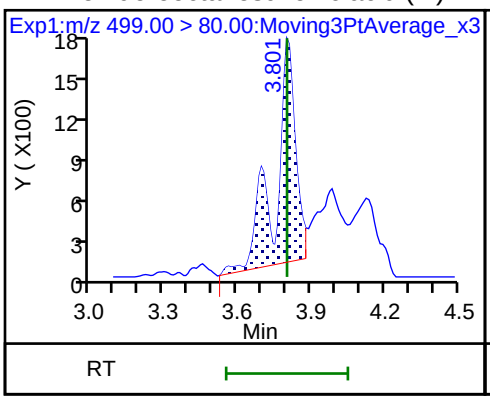

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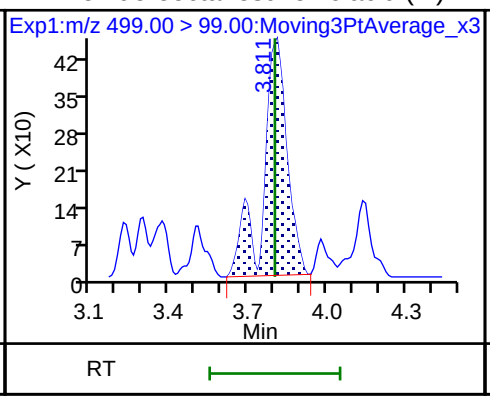
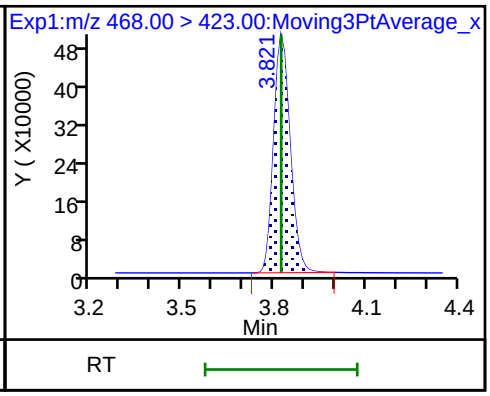


D 19 13C5 PFNA



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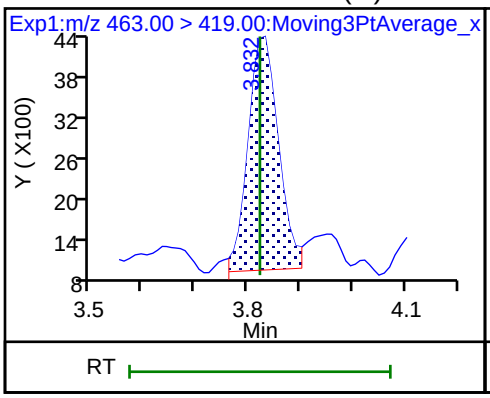
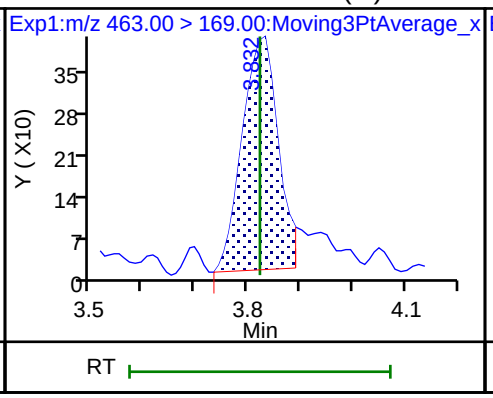
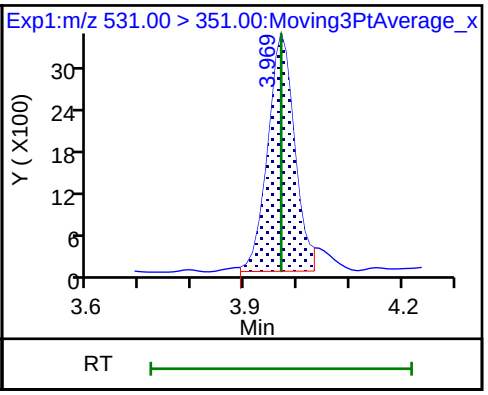


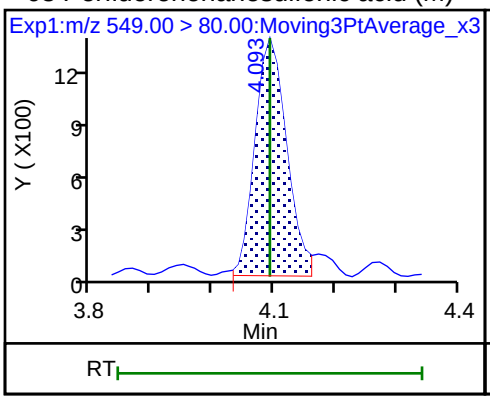
20 Perfluorononanoic acid (M)



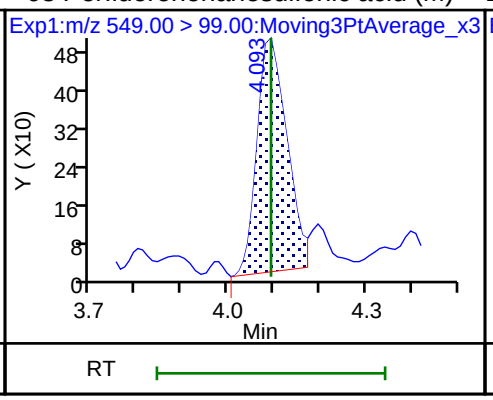
69 9-Chlorohexadecafluoro-3-oxanona (M)



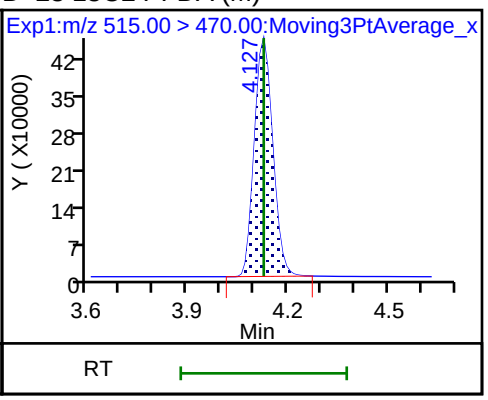
68 Perfluorononanesulfonic acid (M)



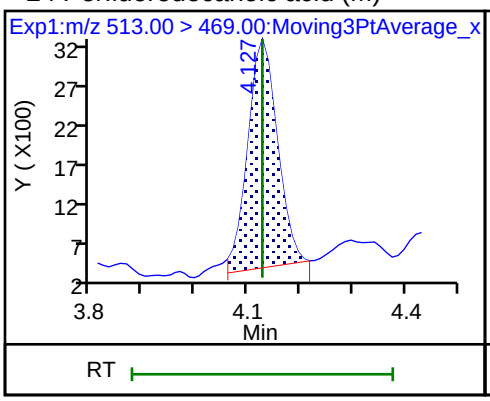
68 Perfluorononanesulfonic acid (M)



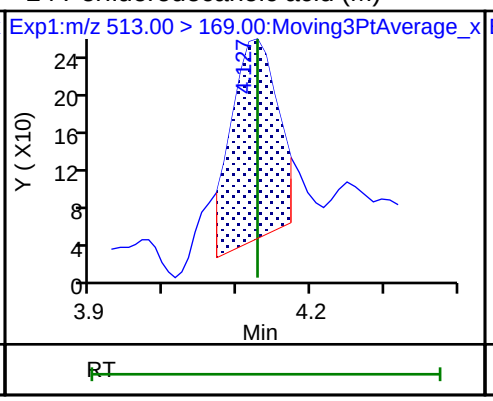
D 23 13C2 PFDA (M)



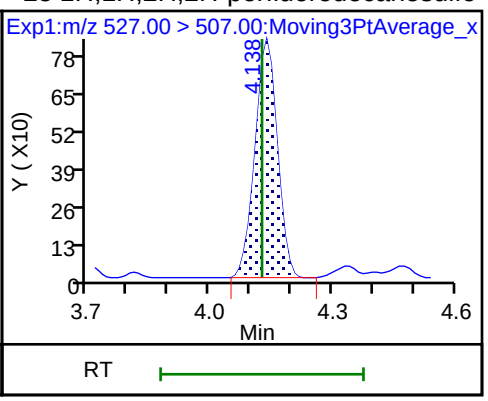
24 Perfluorodecanoic acid (M)



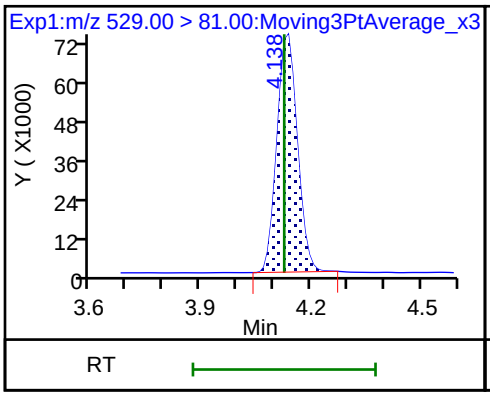
24 Perfluorodecanoic acid (M)



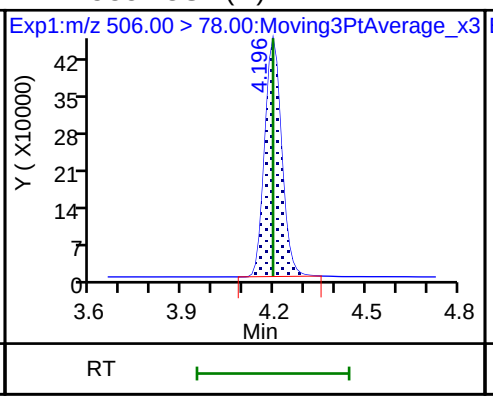
25 1H,1H,2H,2H-perfluorodecanesulfo



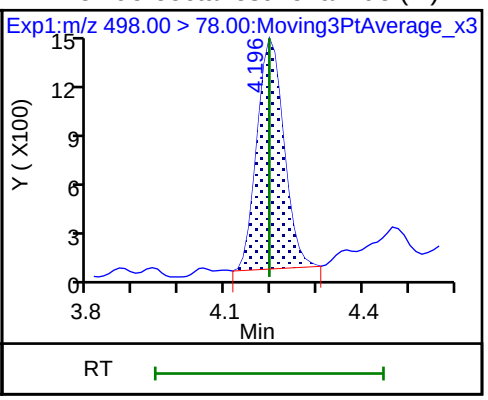
D 26 M2-8:2 FTS



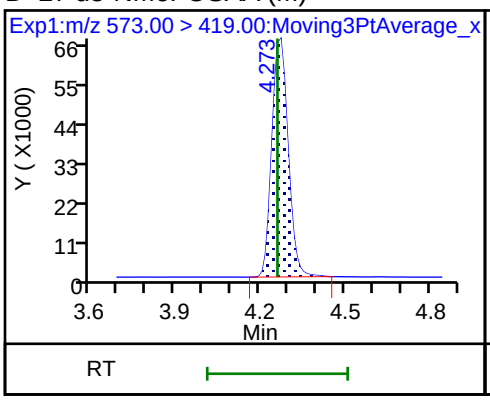
D 21 13C8 FOSA (M)



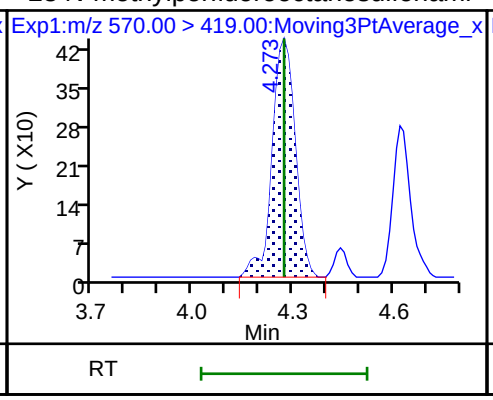
22 Perfluorooctanesulfonamide (M)



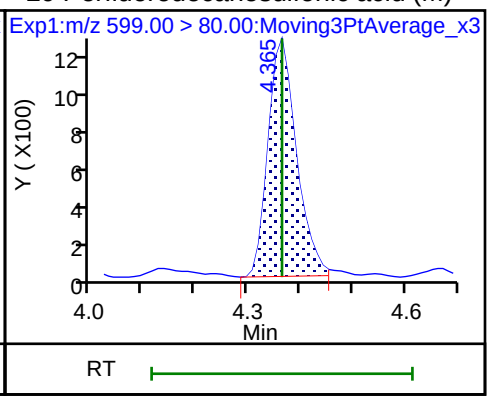
D 27 d3-NMeFOSAA (M)



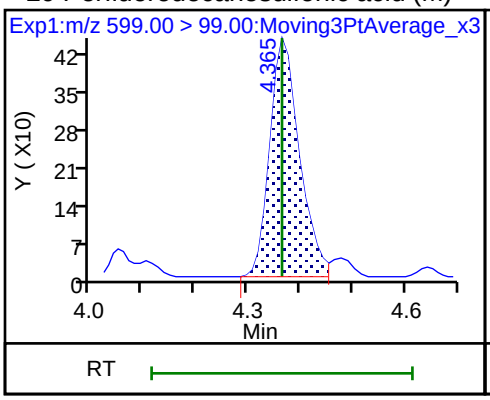
28 N-methylperfluorooctanesulfonami



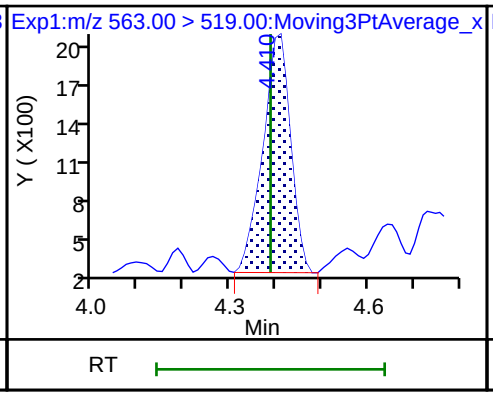
29 Perfluorodecanesulfonic acid (M)



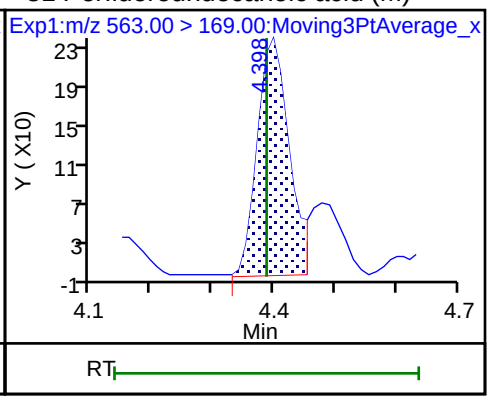
29 Perfluorodecanesulfonic acid (M)



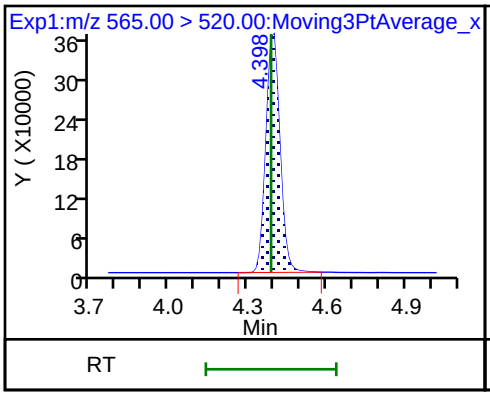
31 Perfluoroundecanoic acid



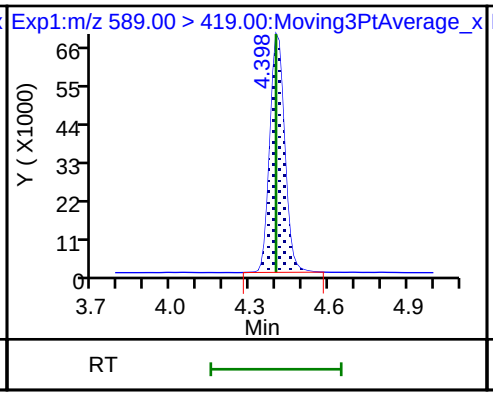
31 Perfluoroundecanoic acid (M)



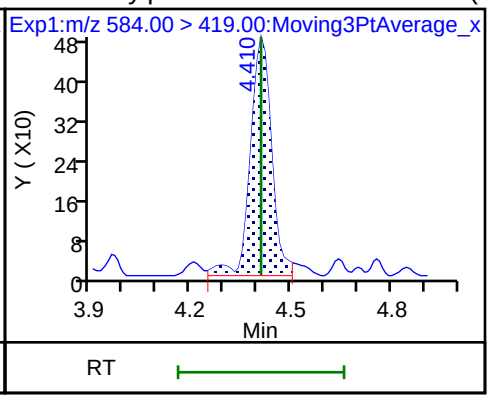
D 30 13C2 PFUnA



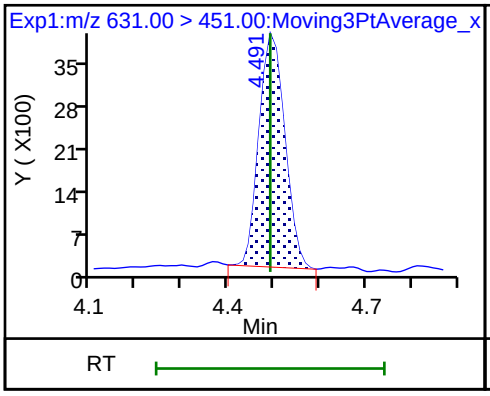
D 32 d5-NEtFOSAA



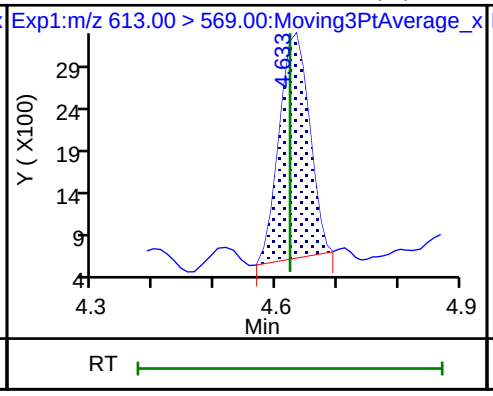
33 N-ethylperfluorooctanesulfonamid (M)



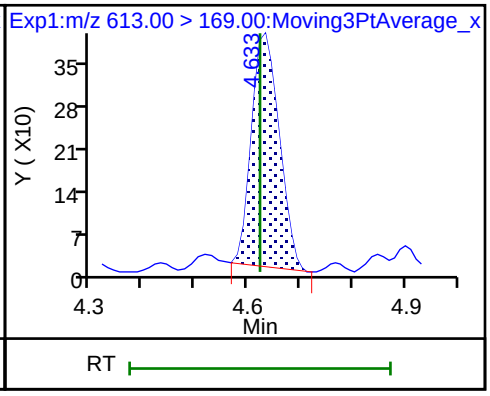
66 11-Chloroeicosafluoro-3-oxaundec



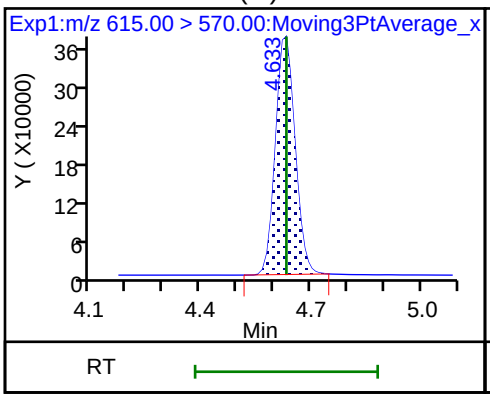
37 Perfluorododecanoic acid (M)



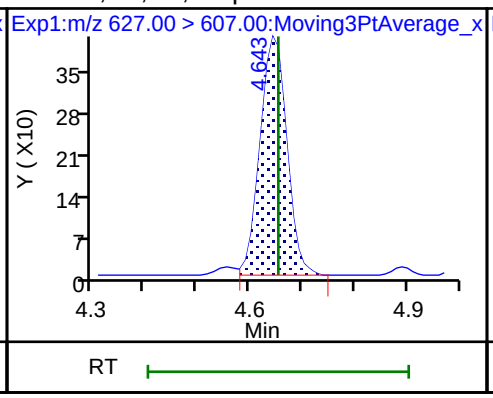
37 Perfluorododecanoic acid



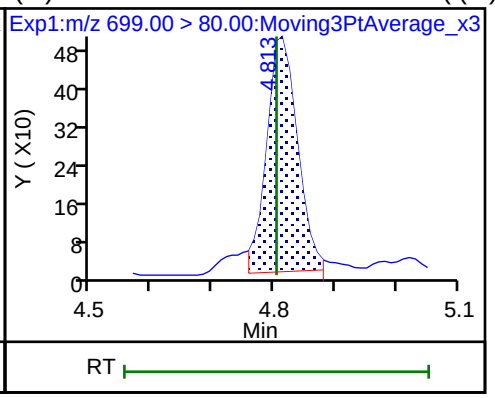
D 36 13C2 PFDoA (M)



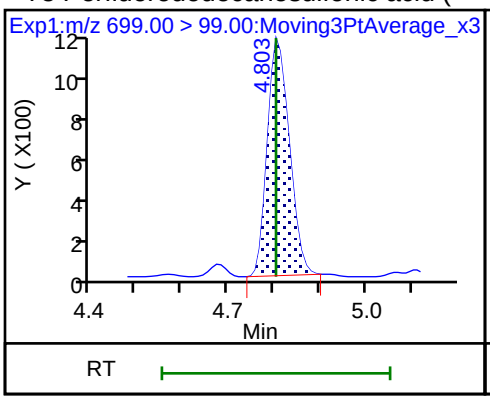
74 1H,1H,2H,2H-perfluorododecanesul (M)



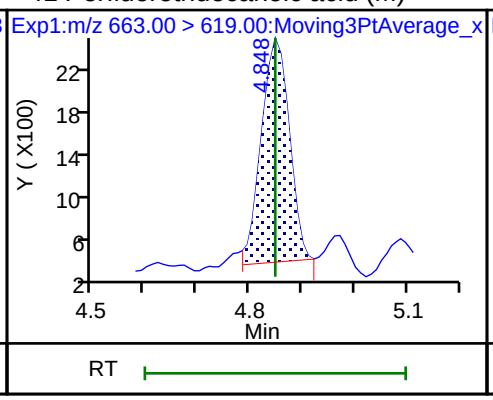
75 Perfluorododecanesulfonic acid ((M)



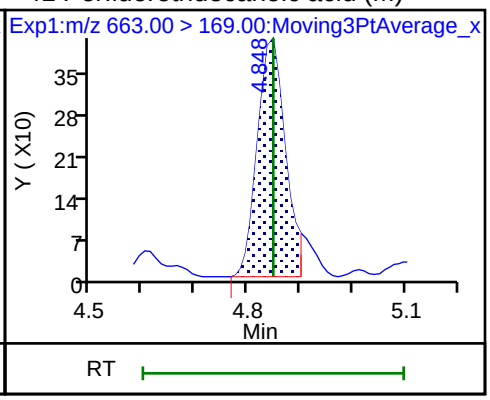
75 Perfluorododecanesulfonic acid (



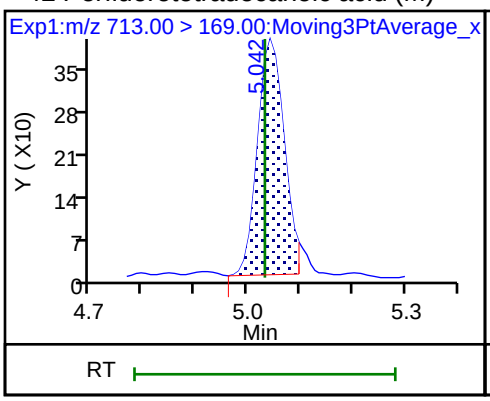
41 Perfluorotridecanoic acid (M)



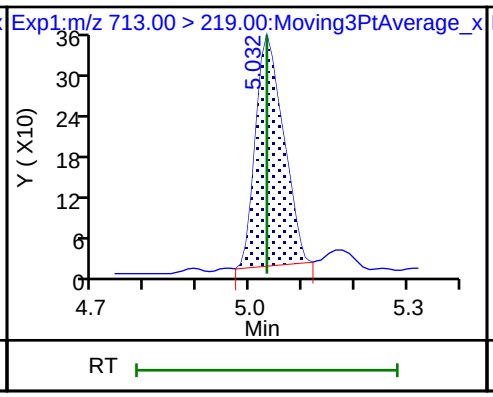
41 Perfluorotridecanoic acid (M)



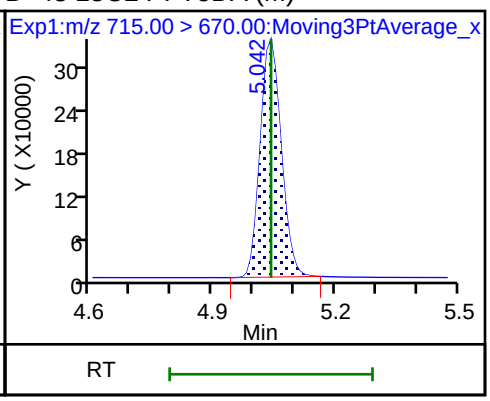
42 Perfluorotetradecanoic acid (M)



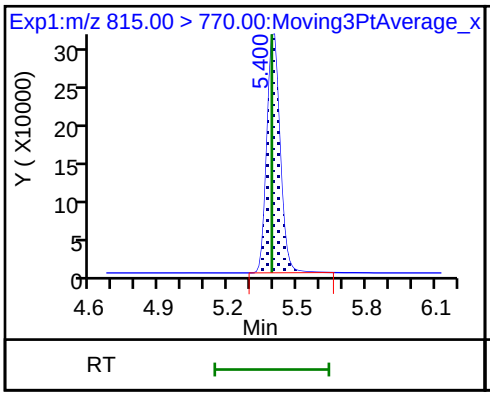
42 Perfluorotetradecanoic acid



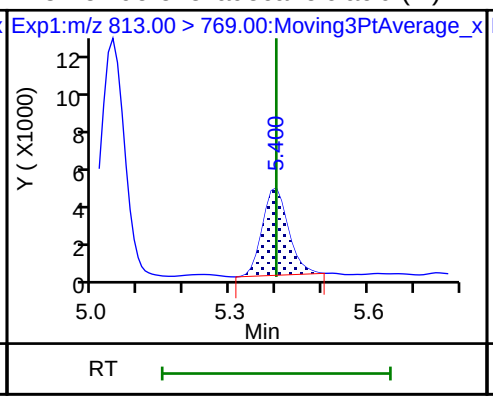
D 43 13C2 PFTeDA (M)



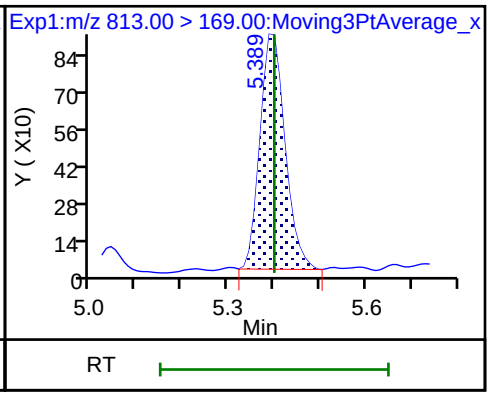
D 44 13C2 PFHxDA



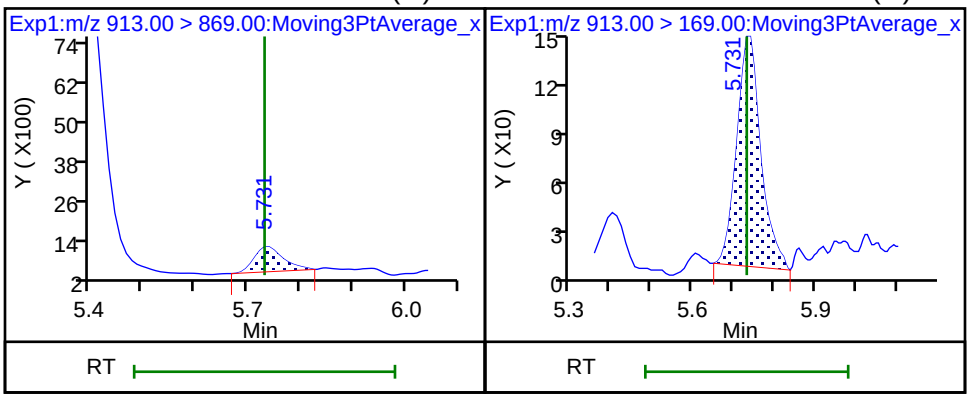
45 Perfluorohexadecanoic acid (M)



45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid (M) 46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

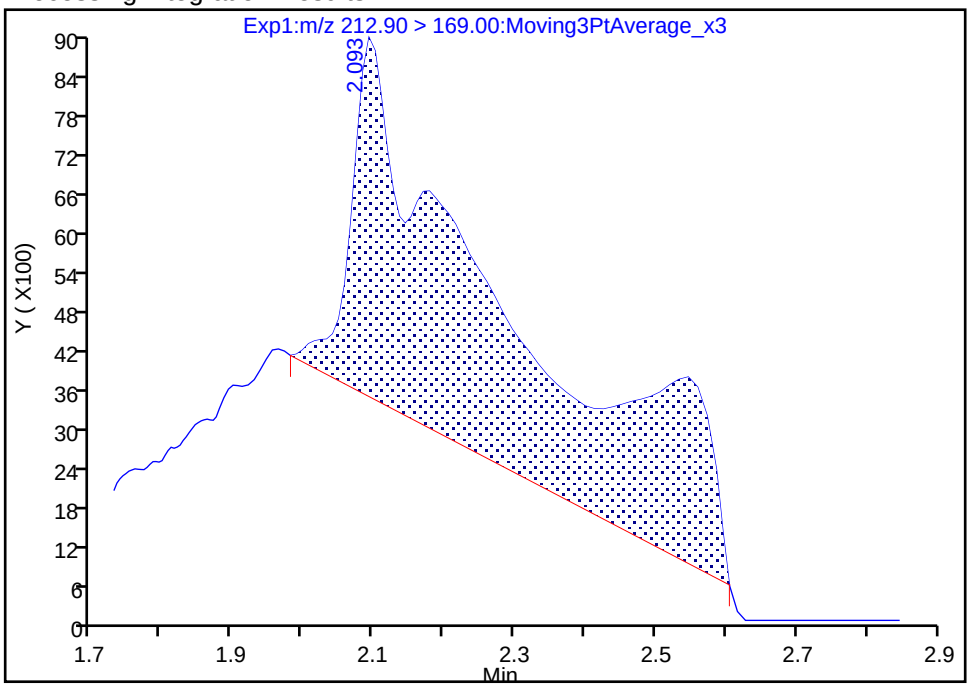
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d
Injection Date: 13-Jun-2022 17:33:32 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

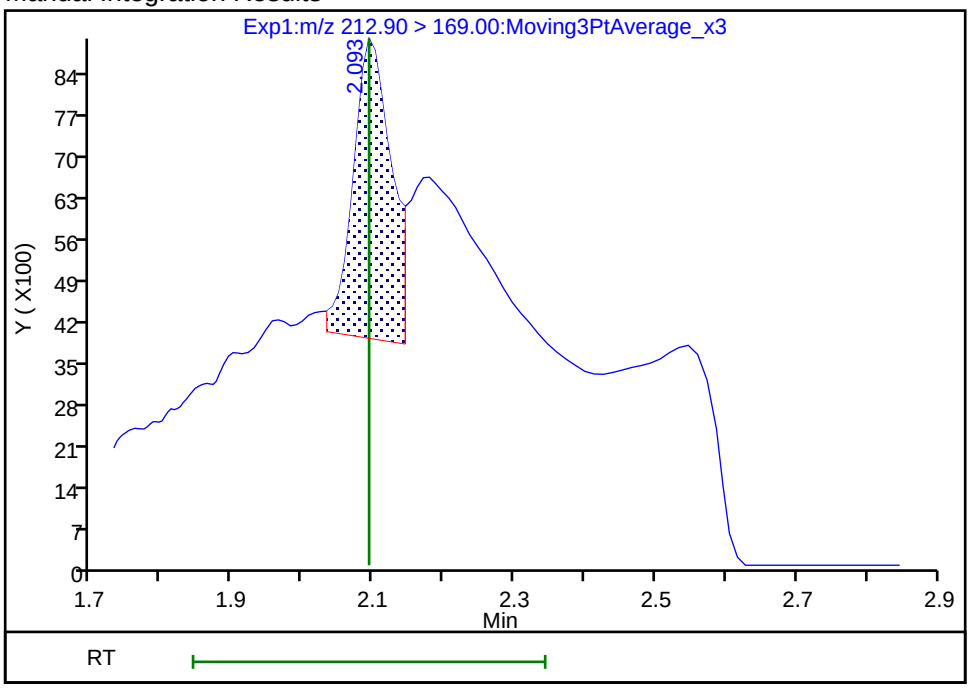
Processing Integration Results

RT: 2.09
Area: 87363
Amount: 0.053718
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 19007
Amount: 0.011687
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:33:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

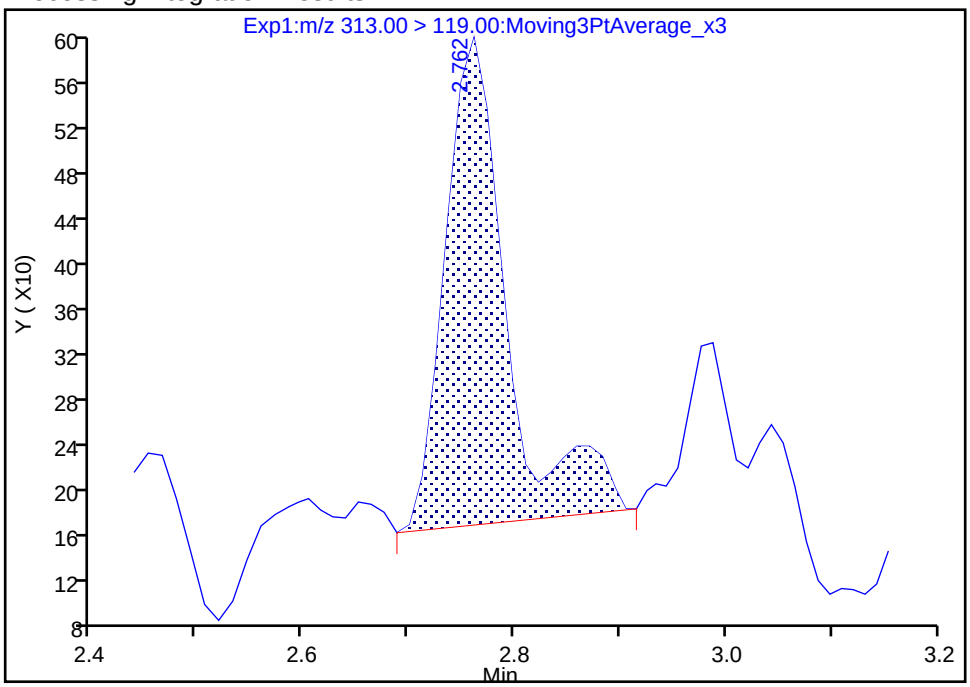
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d
Injection Date: 13-Jun-2022 17:33:32 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

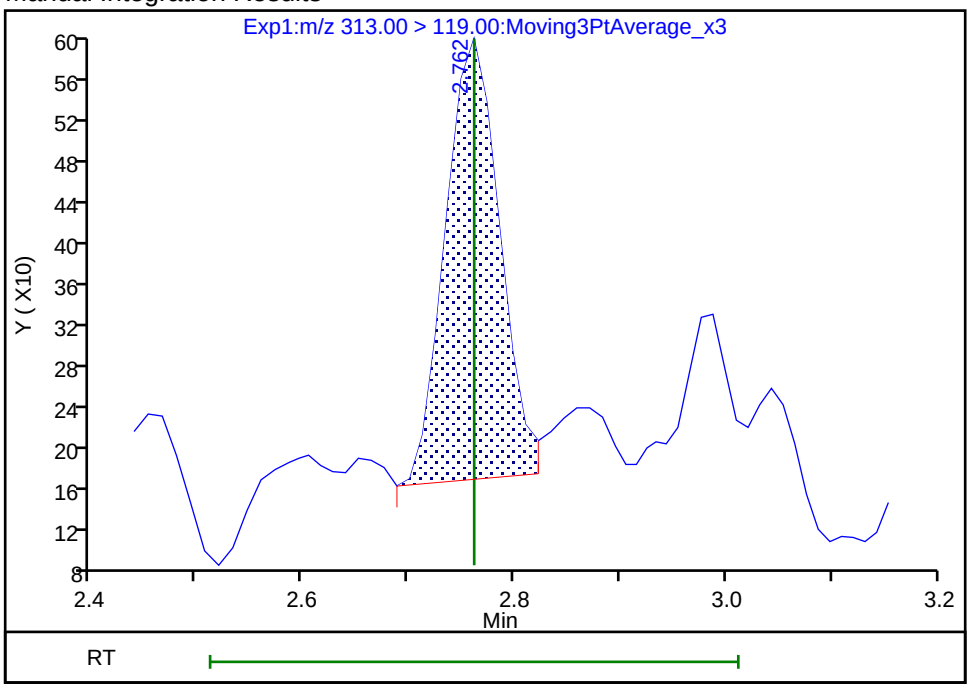
Processing Integration Results

RT: 2.76
Area: 1735
Amount: 0.010449
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 1522
Amount: 0.010449
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:33:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

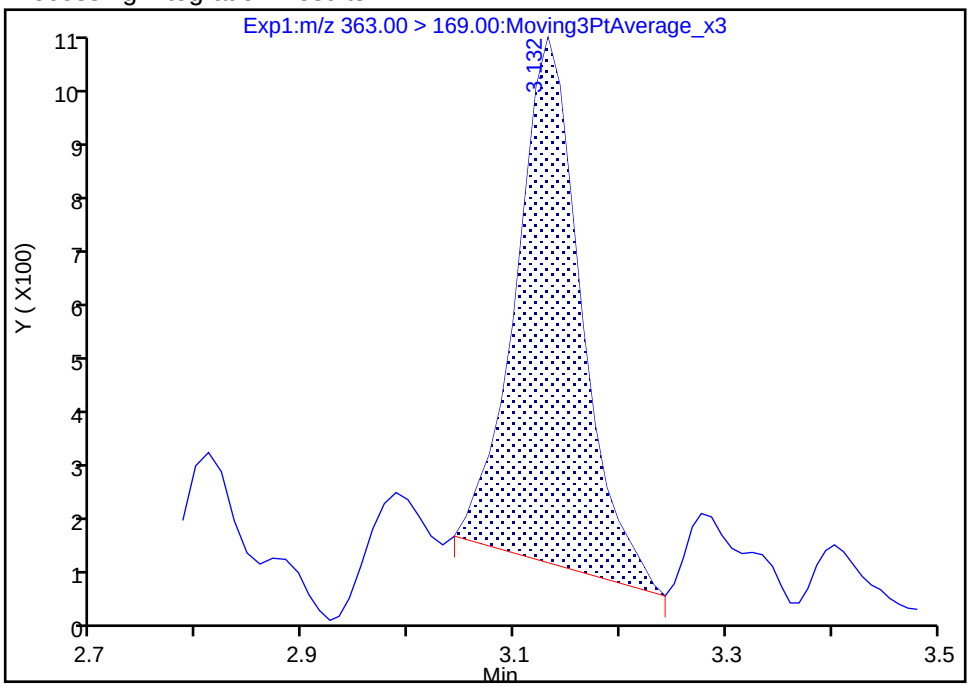
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d
Injection Date: 13-Jun-2022 17:33:32 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

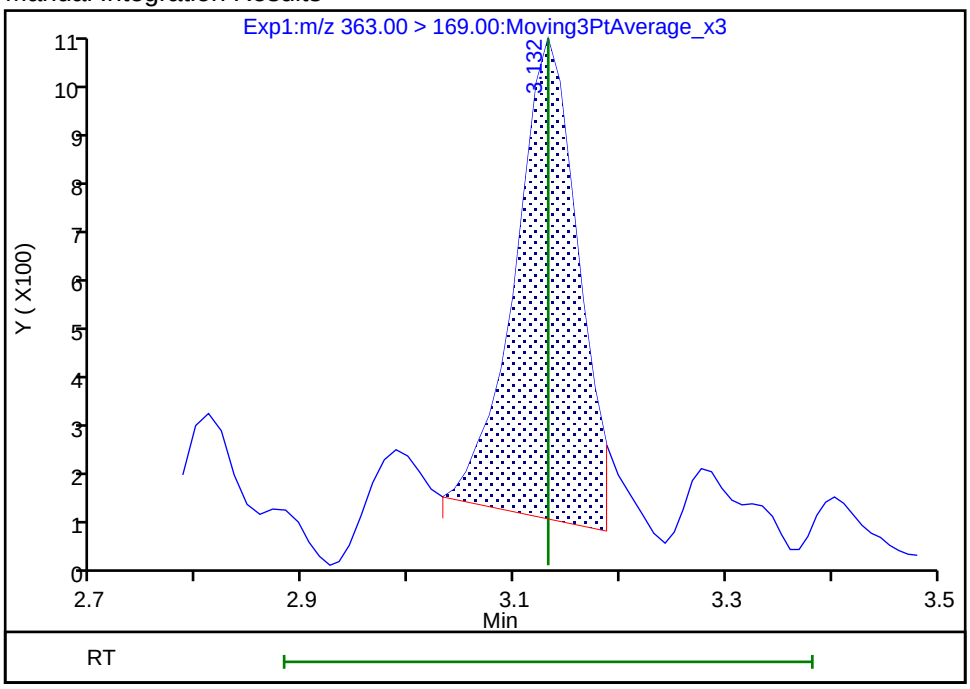
Processing Integration Results

RT: 3.13
Area: 3865
Amount: 0.008974
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 3766
Amount: 0.009031
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:34:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

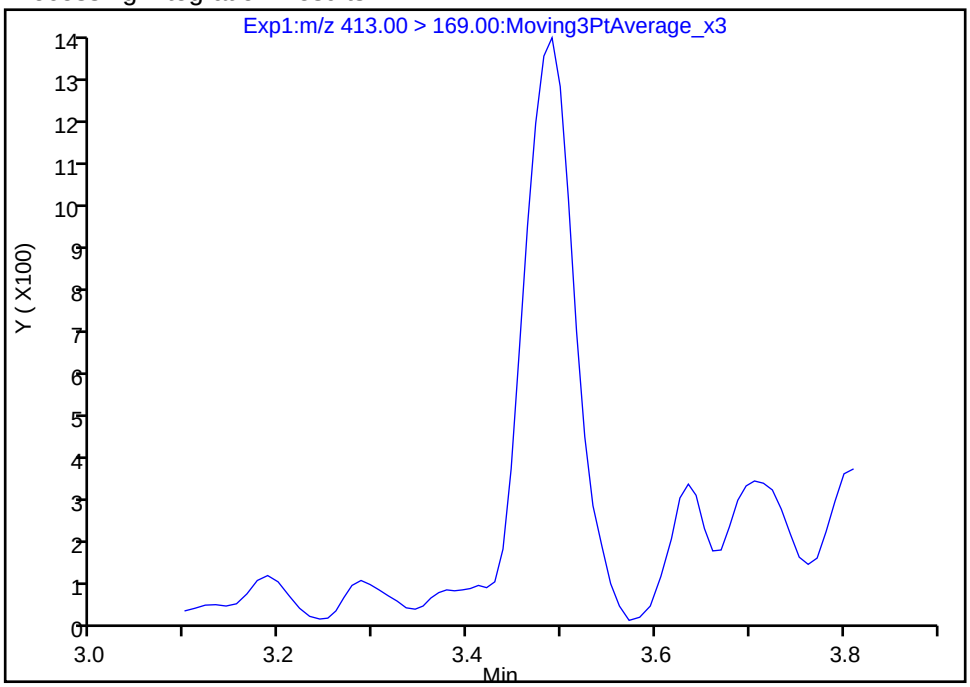
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d
Injection Date: 13-Jun-2022 17:33:32 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

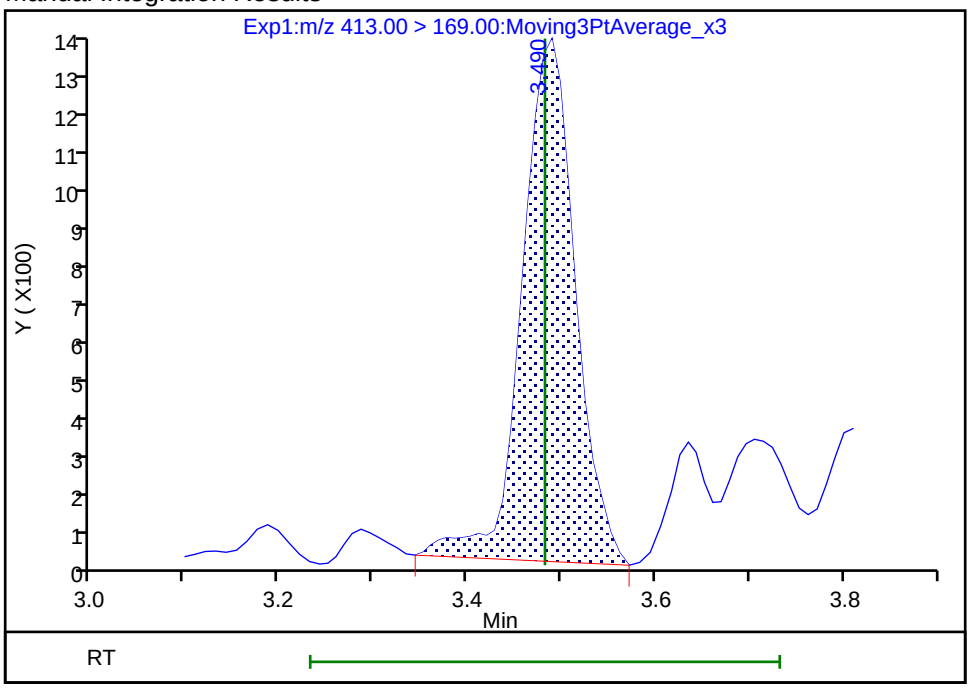
Not Detected
Expected RT: 3.48

Processing Integration Results



Manual Integration Results

RT: 3.49
Area: 5084
Amount: 0.010736
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:36:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

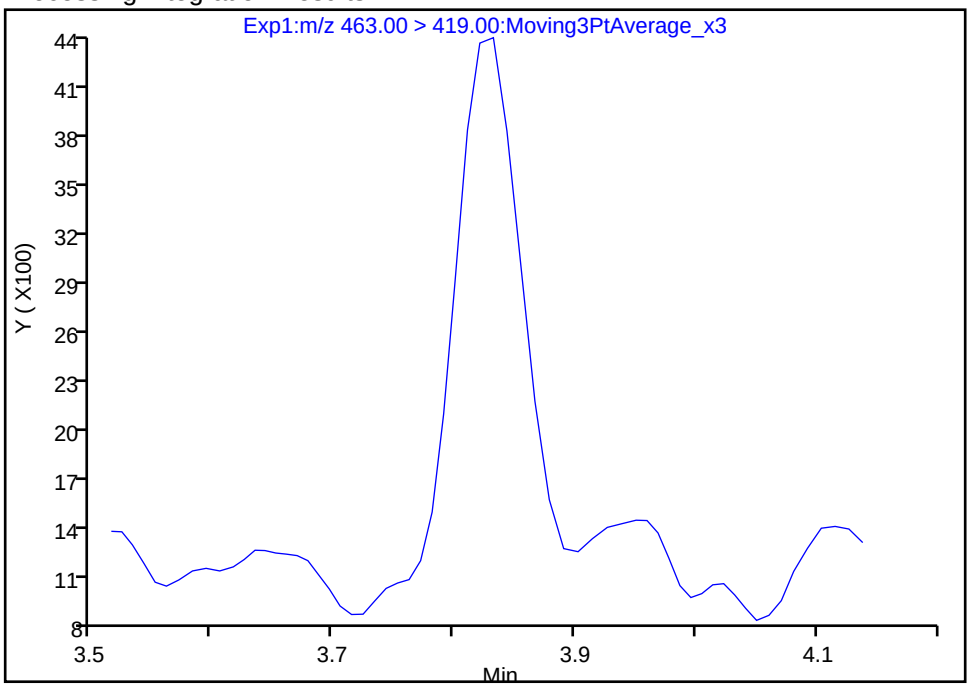
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d				
Injection Date:	13-Jun-2022 17:33:32	Instrument ID:	LC812		
Lims ID:	CCB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	1	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

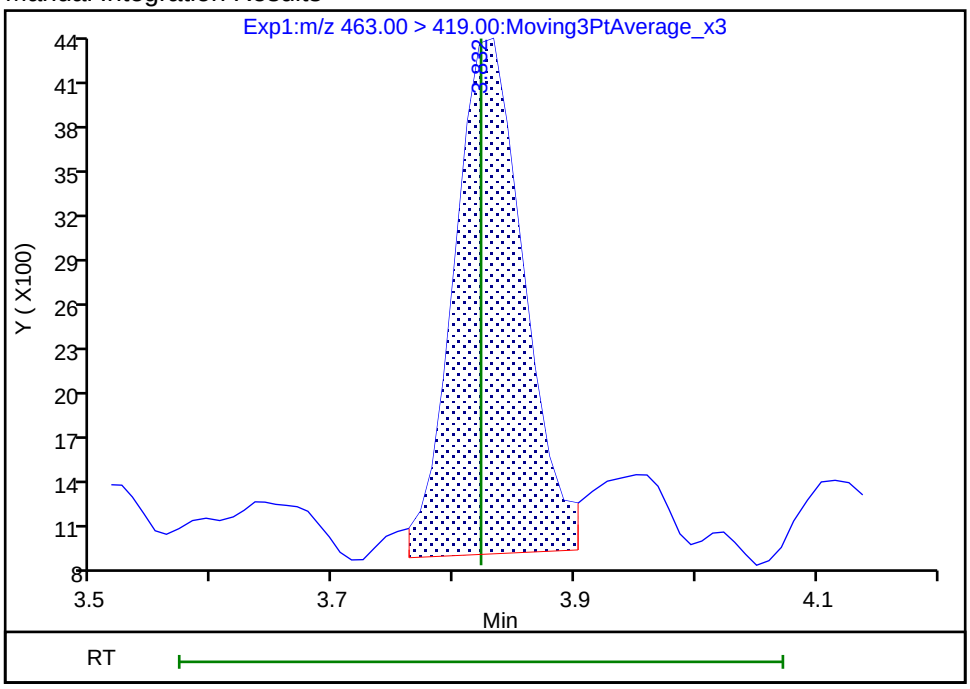
Not Detected
Expected RT: 3.82

Processing Integration Results



Manual Integration Results

RT: 3.83
Area: 13999
Amount: 0.009608
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:37:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

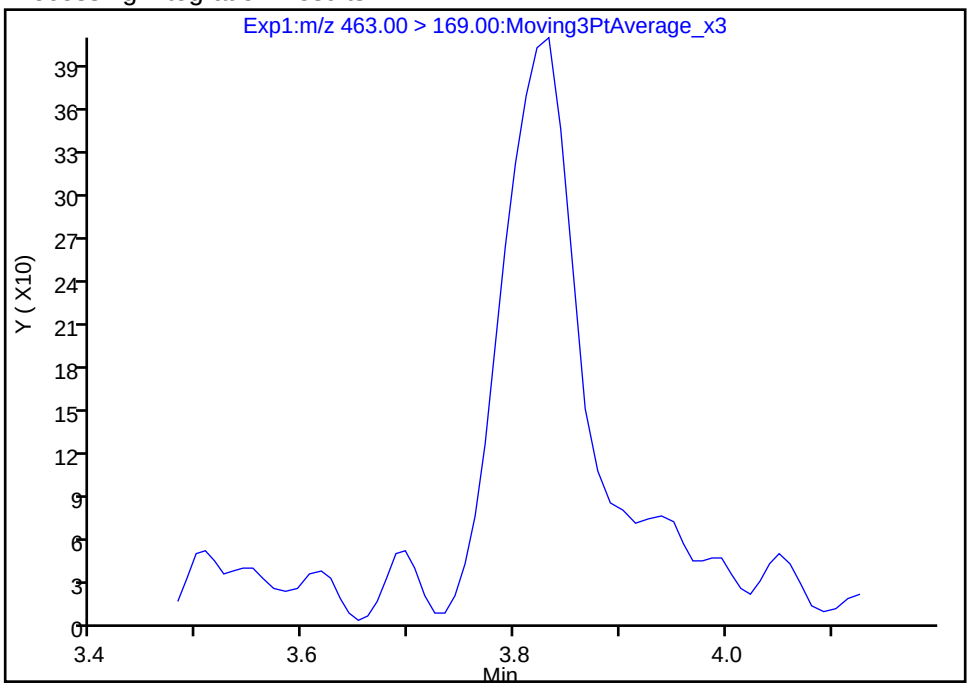
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d
Injection Date: 13-Jun-2022 17:33:32 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

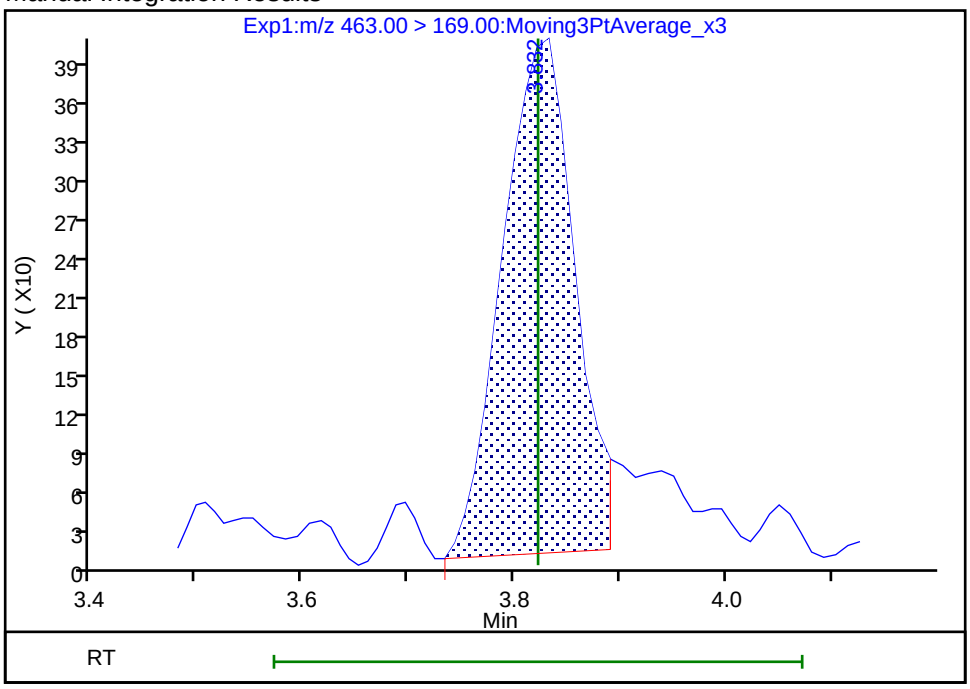
Not Detected
Expected RT: 3.82

Processing Integration Results



Manual Integration Results

RT: 3.83
Area: 1859
Amount: 0.009608
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:37:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

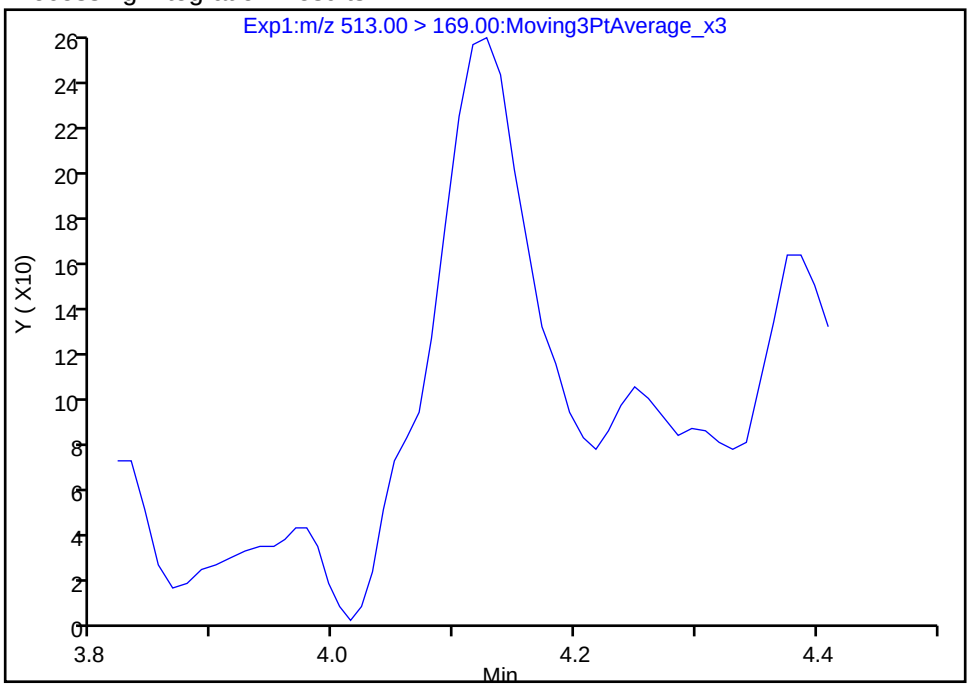
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d				
Injection Date:	13-Jun-2022 17:33:32	Instrument ID:	LC812		
Lims ID:	CCB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	1	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

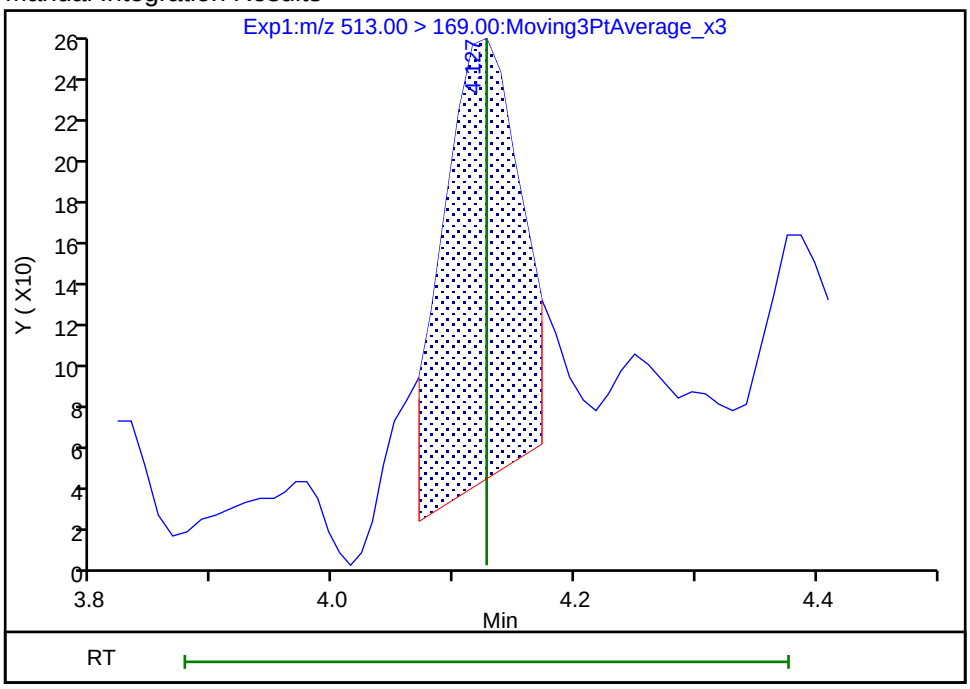
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.13
Area: 926
Amount: 0.007615
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:38:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

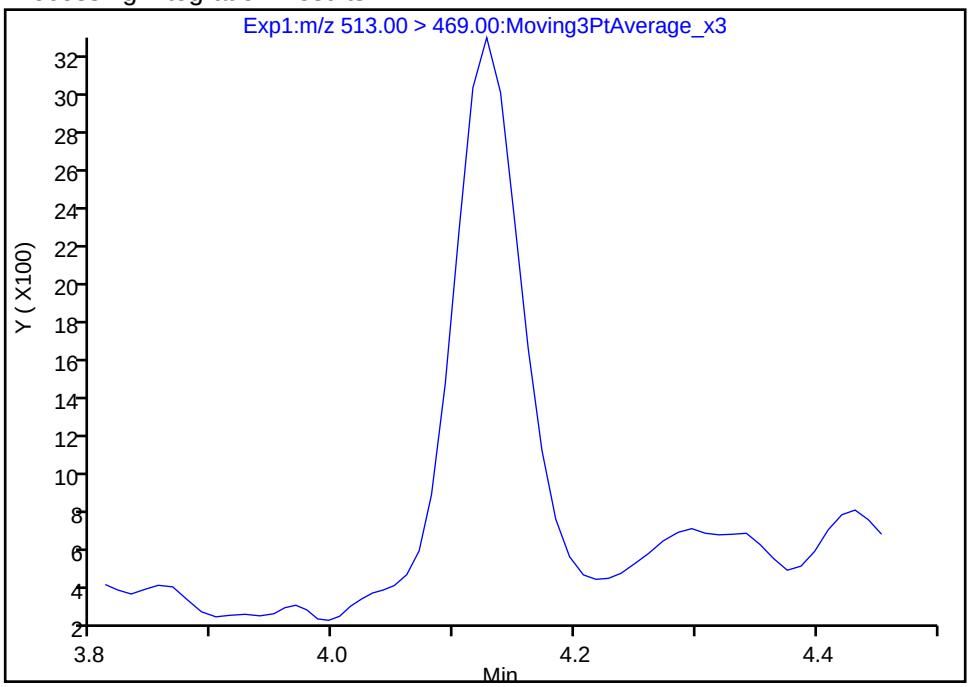
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d
Injection Date: 13-Jun-2022 17:33:32 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

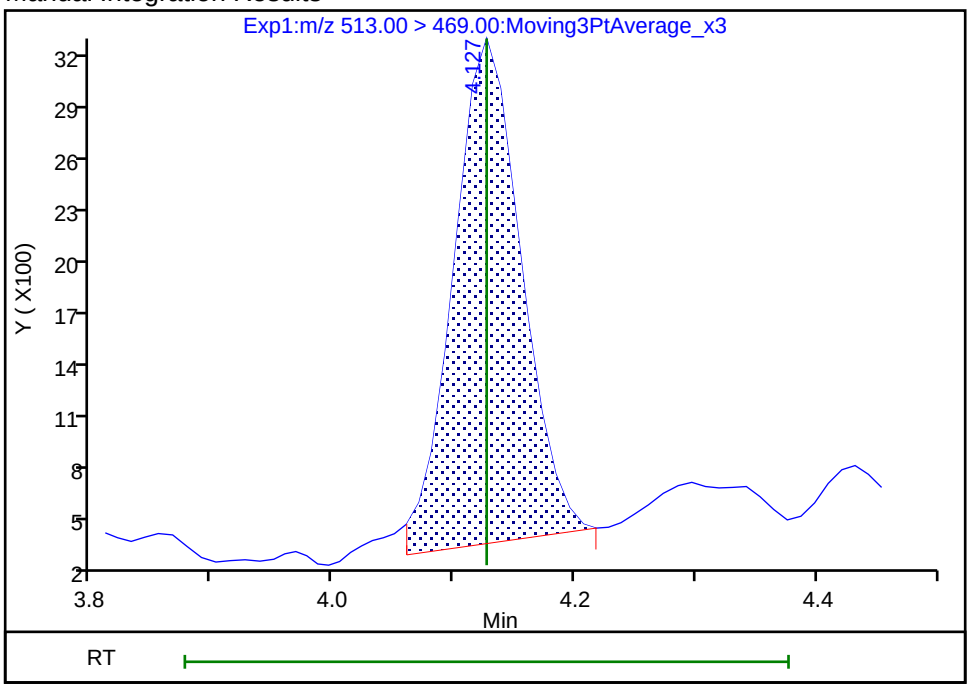
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.13
Area: 11298
Amount: 0.007615
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:38:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

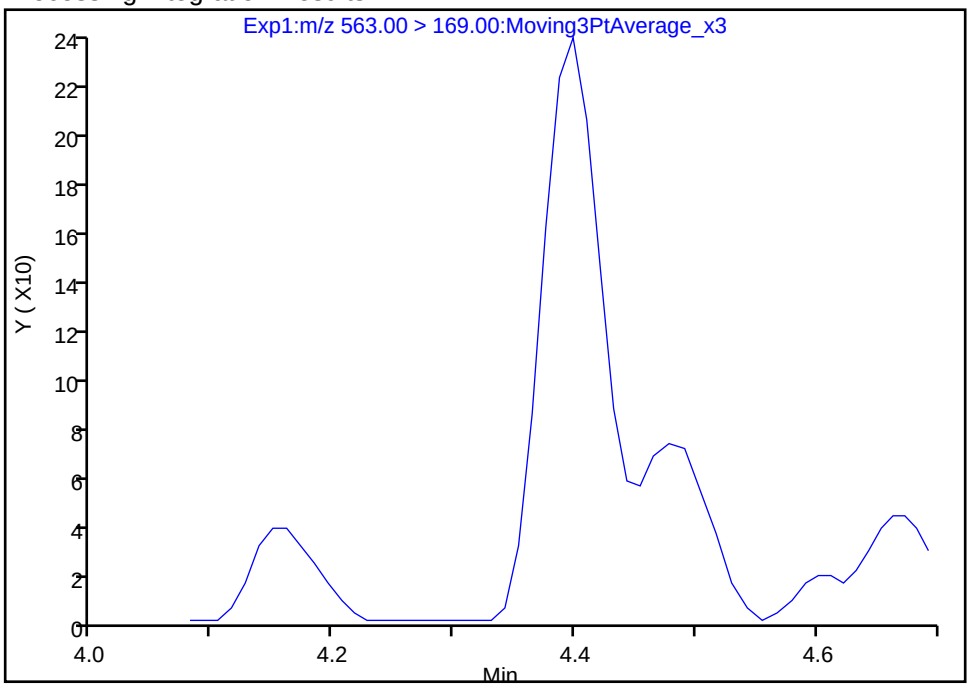
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d				
Injection Date:	13-Jun-2022 17:33:32	Instrument ID:	LC812		
Lims ID:	CCB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	1	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

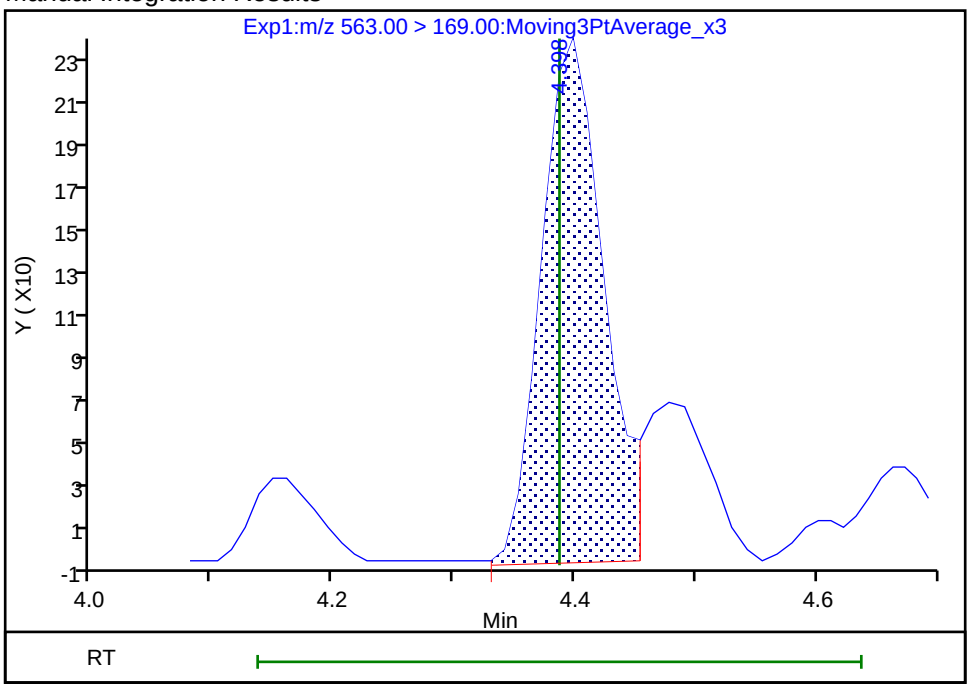
Not Detected
Expected RT: 4.39

Processing Integration Results



Manual Integration Results

RT: 4.40
Area: 841
Amount: 0.006589
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:39:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

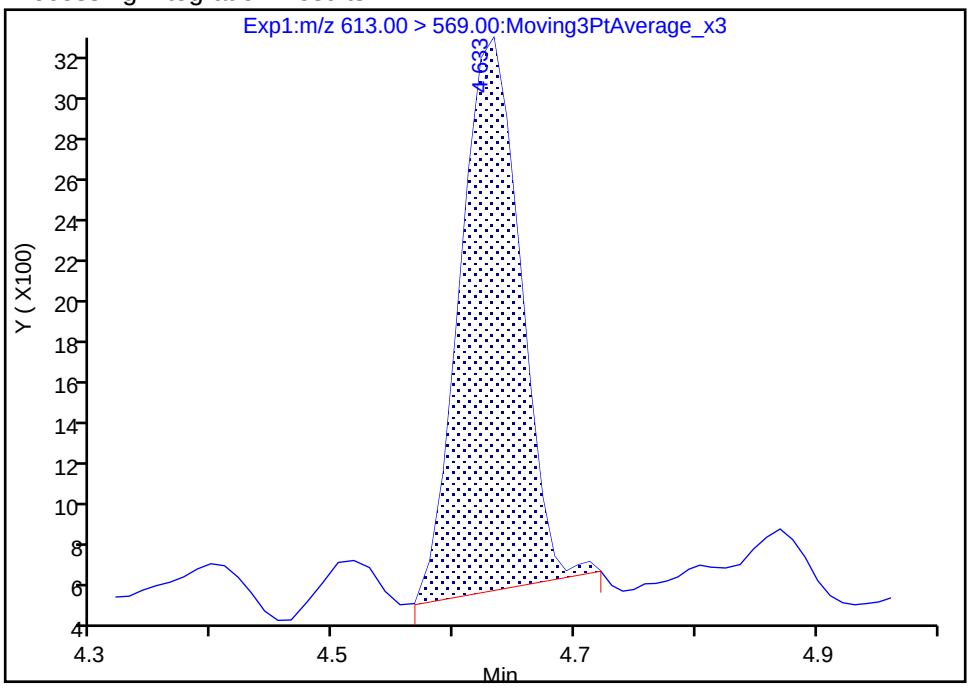
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d
Injection Date: 13-Jun-2022 17:33:32 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

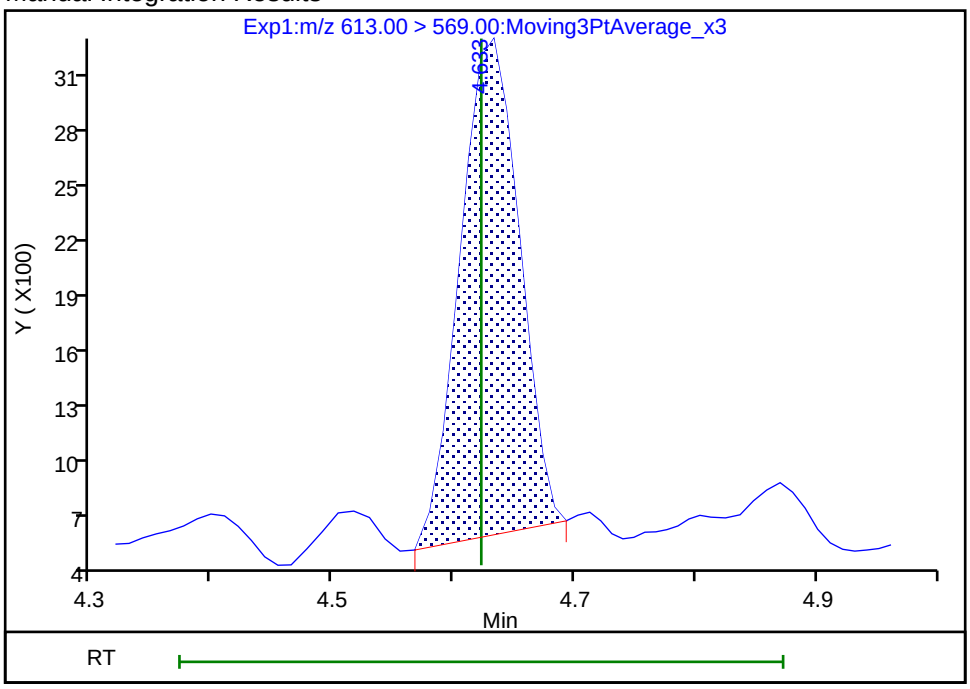
Processing Integration Results

RT: 4.63
Area: 9450
Amount: 0.008332
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 9241
Amount: 0.008215
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:39:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

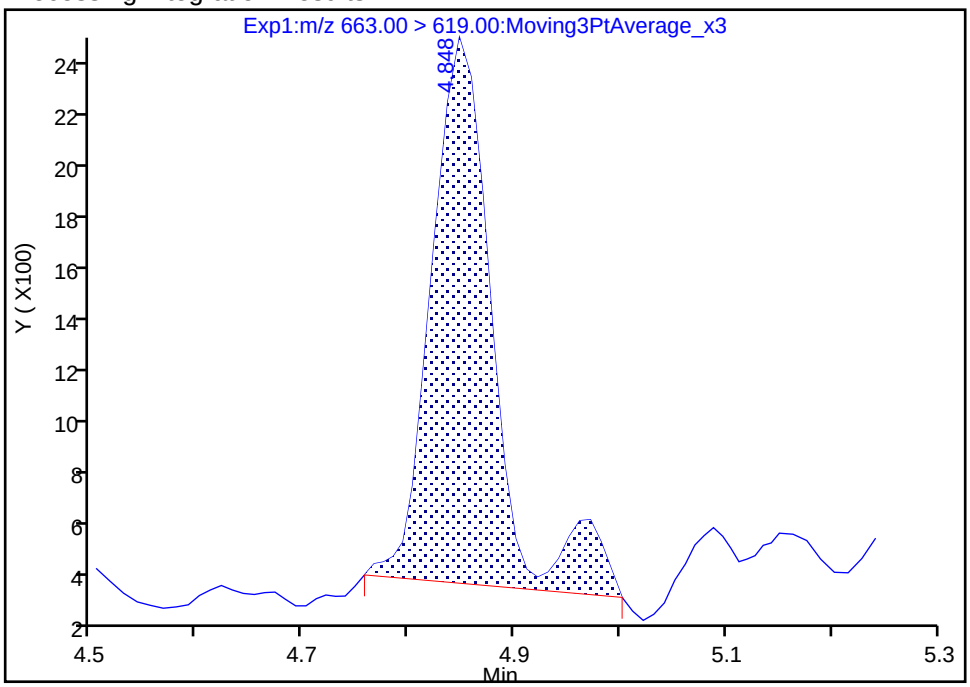
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d
Injection Date: 13-Jun-2022 17:33:32 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

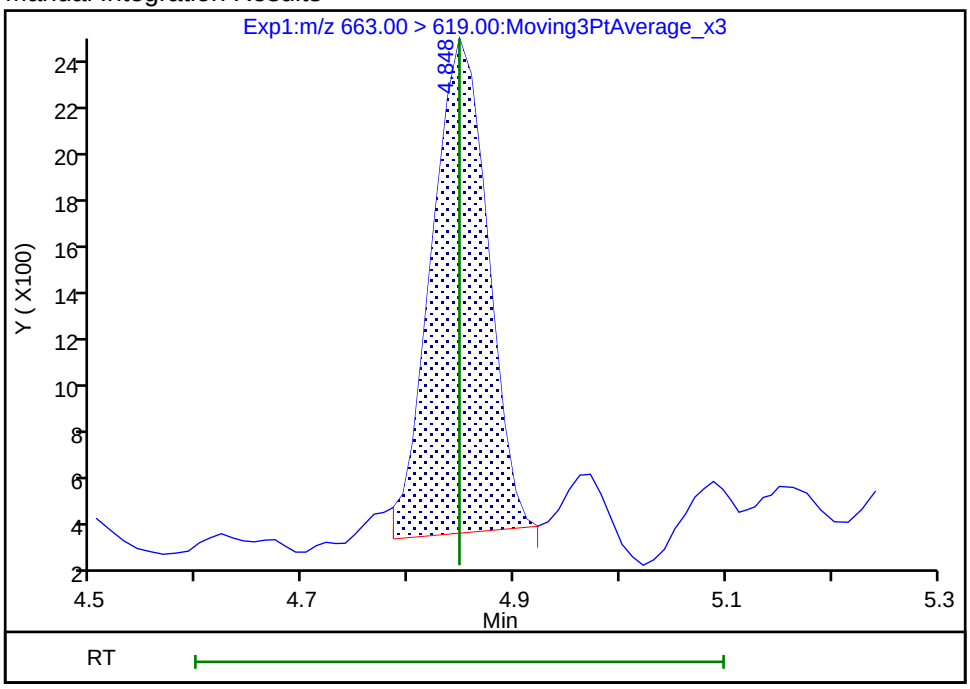
Processing Integration Results

RT: 4.85
Area: 8482
Amount: 0.008780
Amount Units: ng/ml



Manual Integration Results

RT: 4.85
Area: 7644
Amount: 0.007979
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:40:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

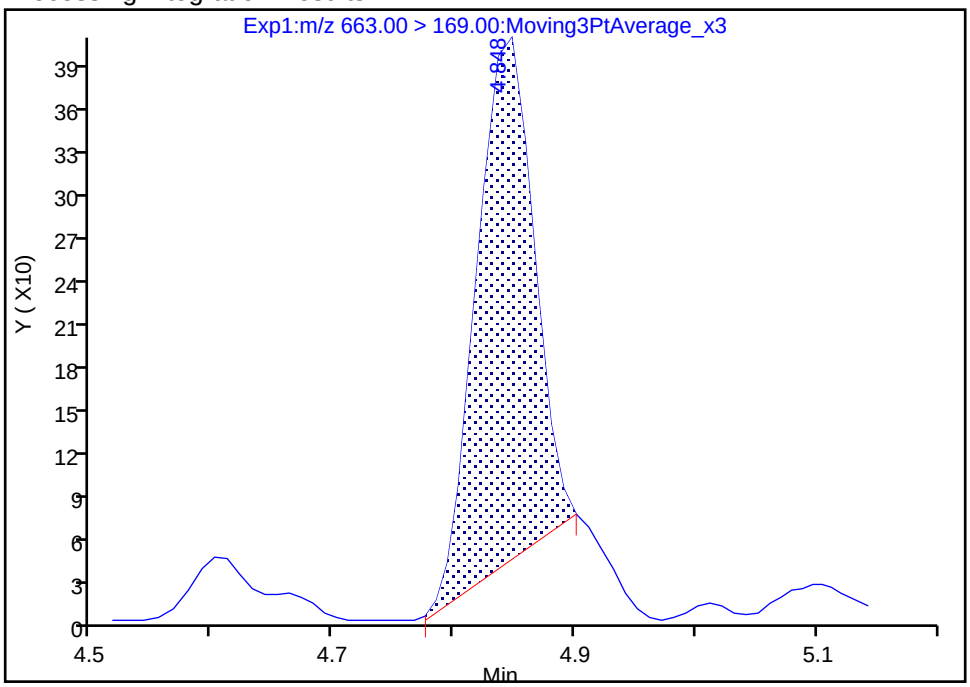
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d
Injection Date: 13-Jun-2022 17:33:32 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

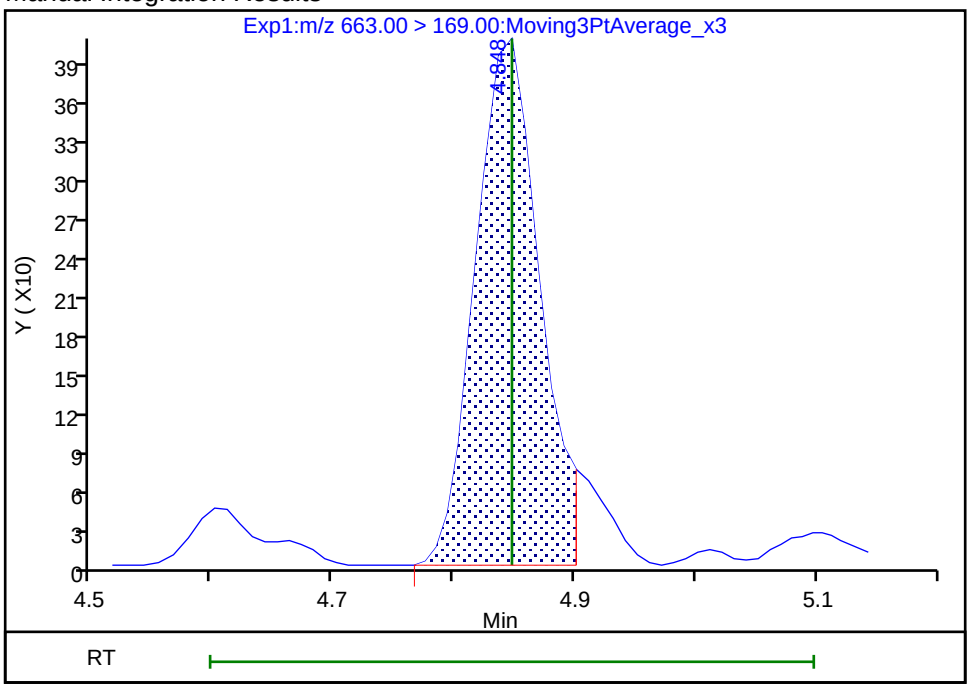
Processing Integration Results

RT: 4.85
Area: 1214
Amount: 0.008780
Amount Units: ng/ml



Manual Integration Results

RT: 4.85
Area: 1492
Amount: 0.007979
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:40:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

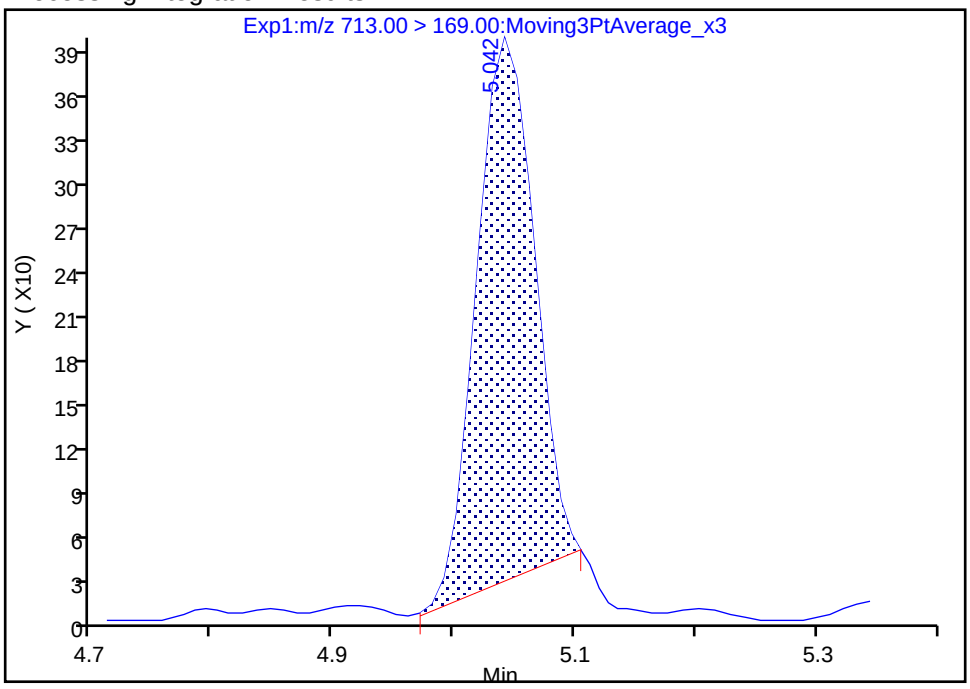
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d
Injection Date: 13-Jun-2022 17:33:32 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

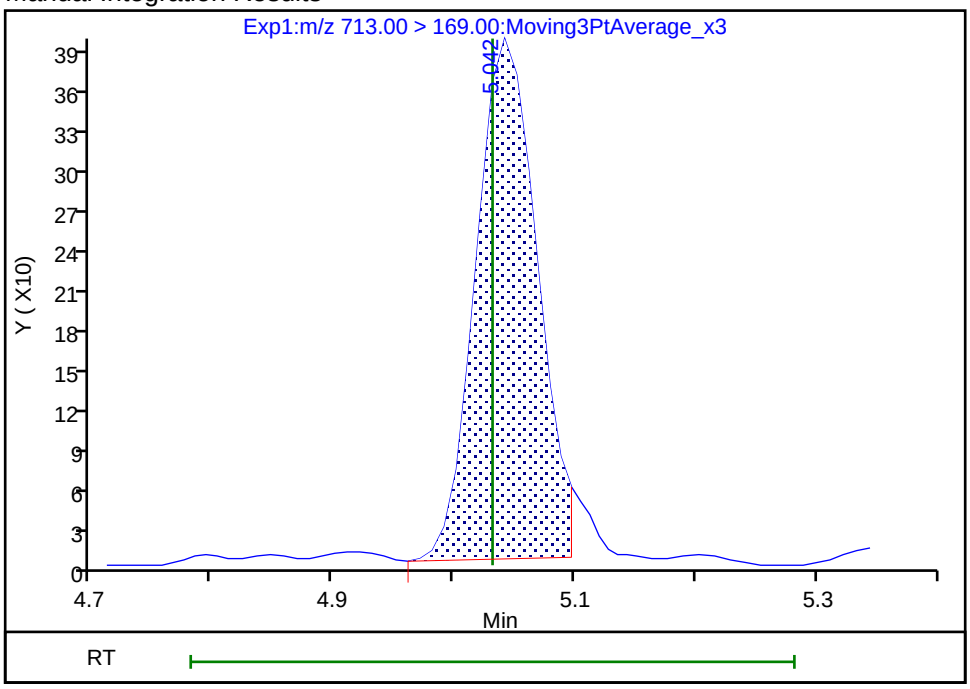
Processing Integration Results

RT: 5.04
Area: 1233
Amount: 0.008431
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 1377
Amount: 0.009506
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:40:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

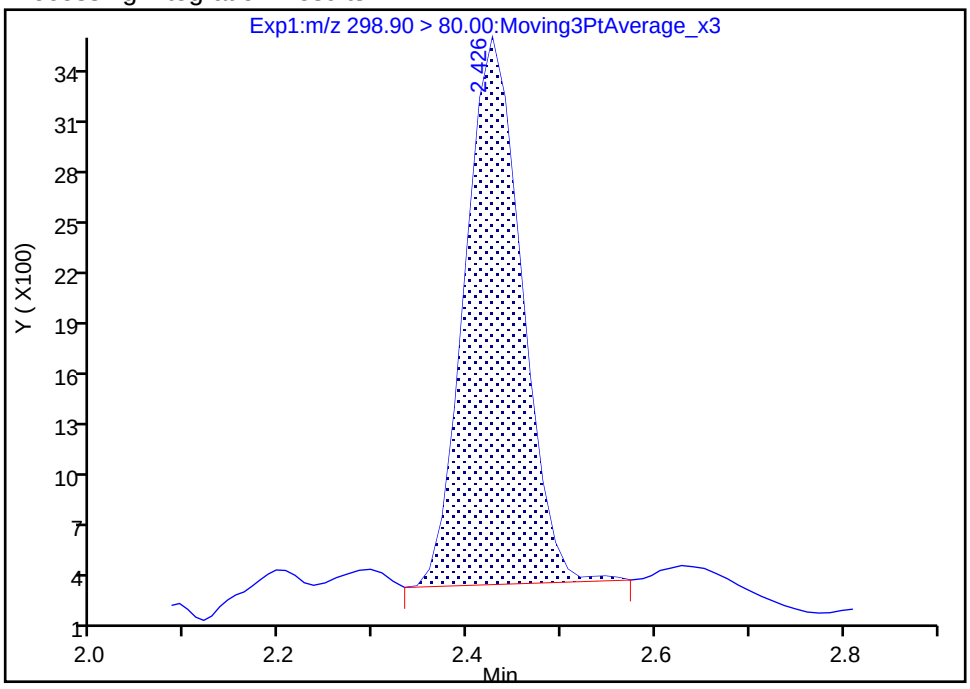
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d
Injection Date: 13-Jun-2022 17:33:32 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

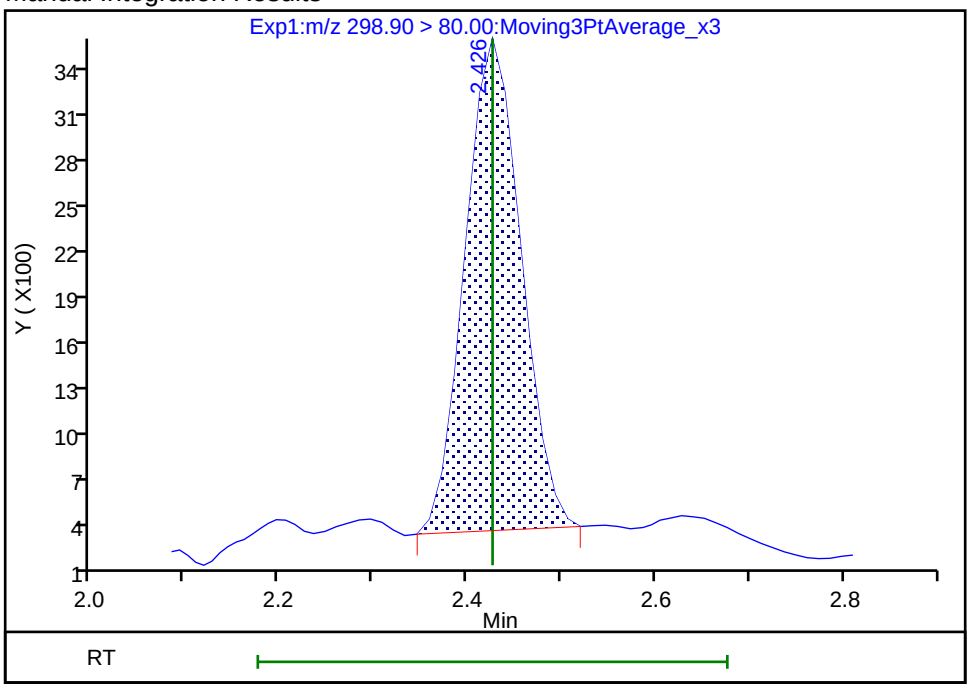
Processing Integration Results

RT: 2.43
Area: 13454
Amount: 0.007327
Amount Units: ng/ml



Manual Integration Results

RT: 2.43
Area: 13220
Amount: 0.007200
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:33:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

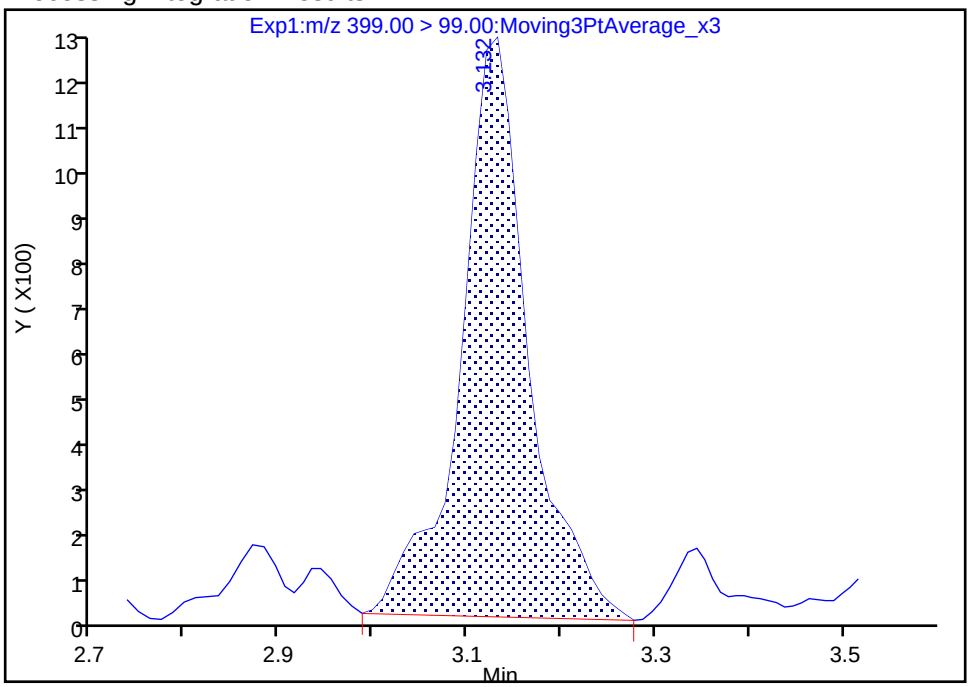
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d				
Injection Date:	13-Jun-2022 17:33:32	Instrument ID:	LC812		
Lims ID:	CCB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	1	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

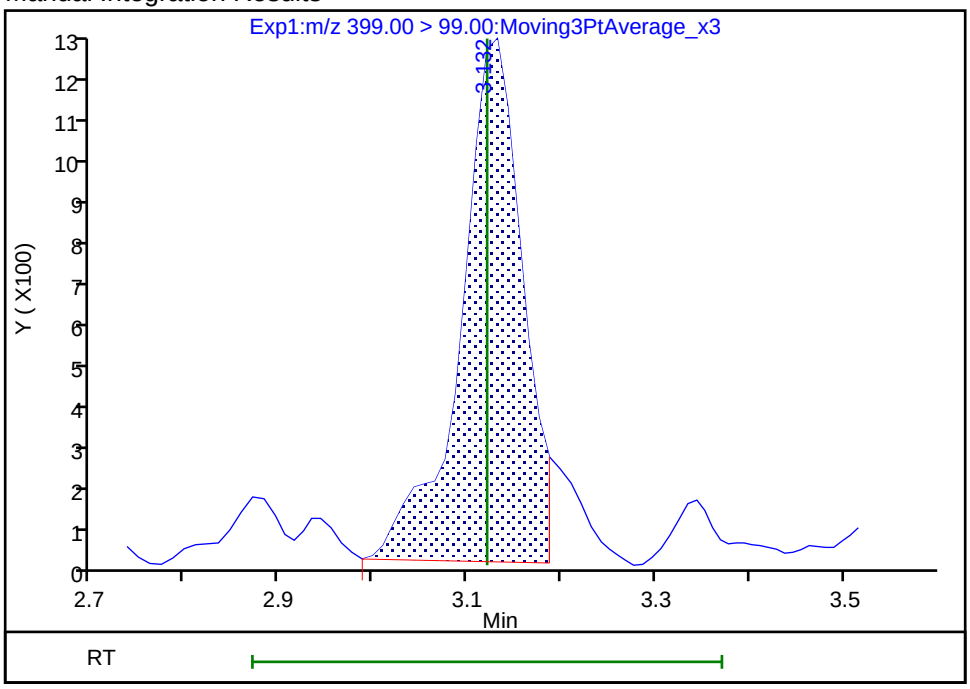
Processing Integration Results

RT: 3.13
Area: 5870
Amount: 0.010933
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 5310
Amount: 0.010945
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:34:27

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

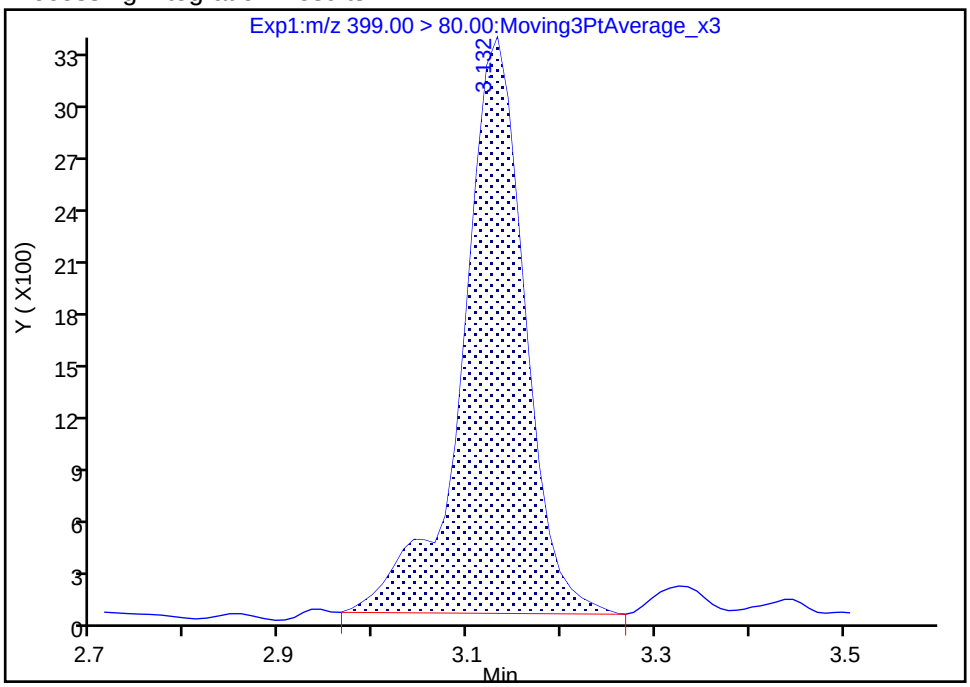
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d				
Injection Date:	13-Jun-2022 17:33:32	Instrument ID:	LC812		
Lims ID:	CCB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	1	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

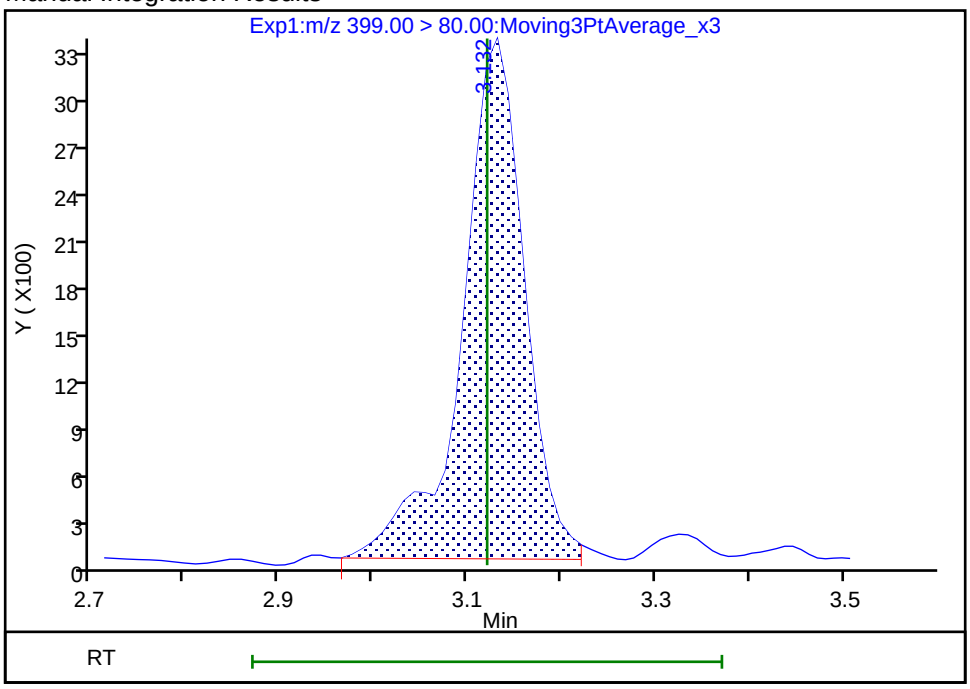
Processing Integration Results

RT: 3.13
Area: 15421
Amount: 0.010933
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 15314
Amount: 0.010945
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:34:29

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

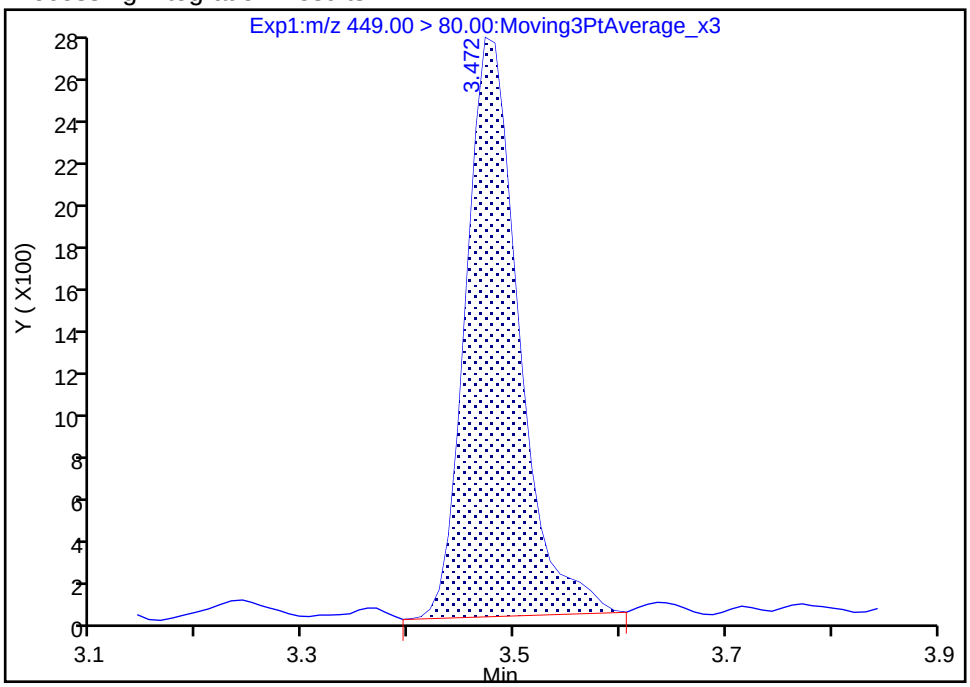
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d				
Injection Date:	13-Jun-2022 17:33:32	Instrument ID:	LC812		
Lims ID:	CCB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	1	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

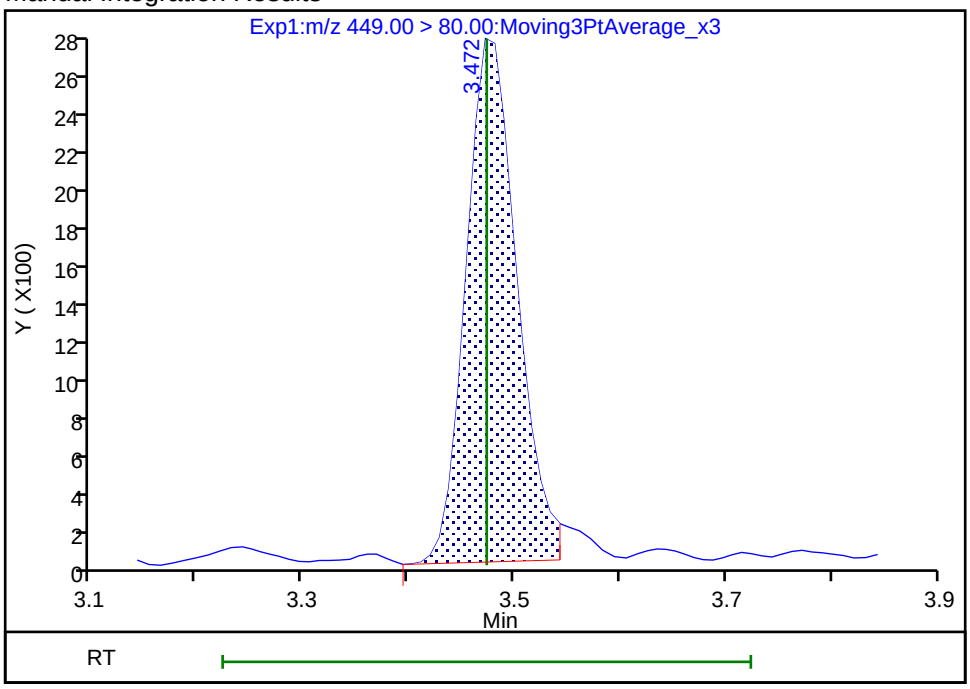
Processing Integration Results

RT: 3.47
Area: 9456
Amount: 0.008531
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 9116
Amount: 0.008243
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:35:46

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

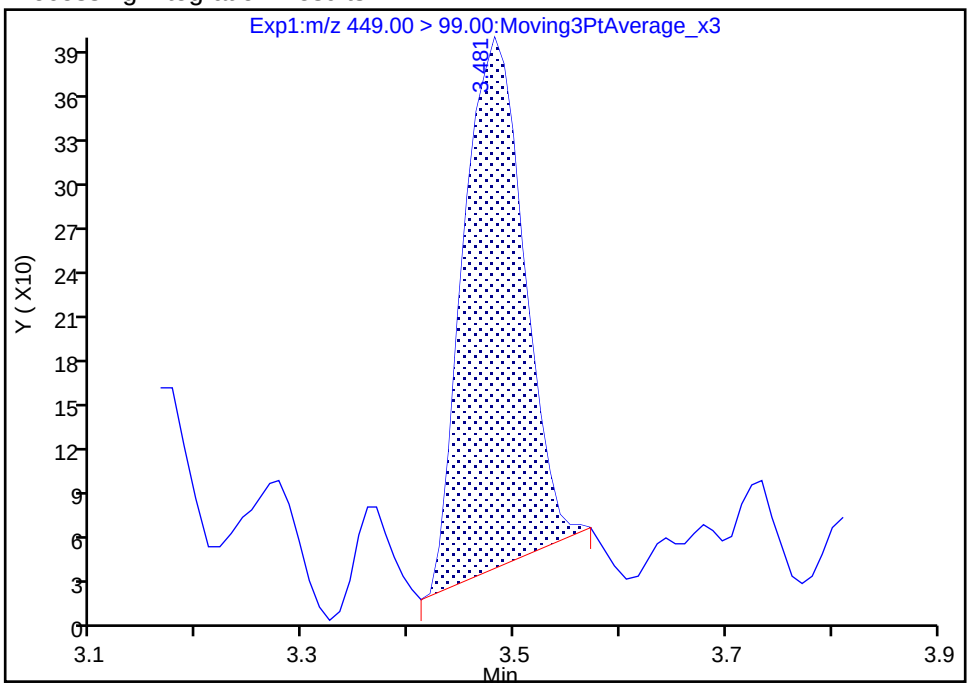
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d
Injection Date: 13-Jun-2022 17:33:32 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

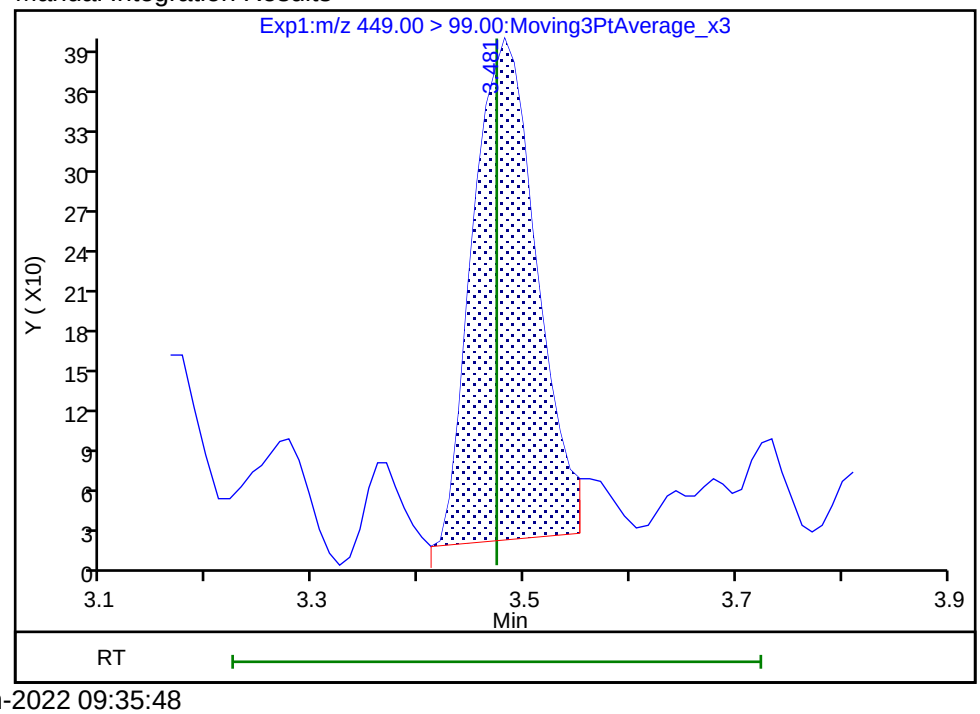
Processing Integration Results

RT: 3.48
Area: 1438
Amount: 0.008531
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 1572
Amount: 0.008243
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:35:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

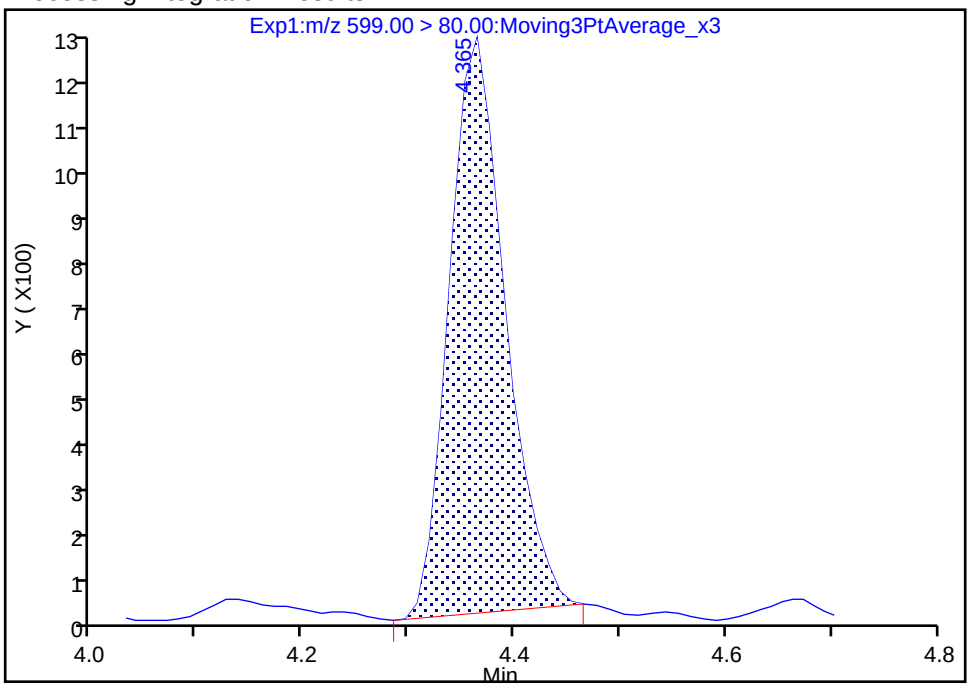
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d
Injection Date: 13-Jun-2022 17:33:32 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

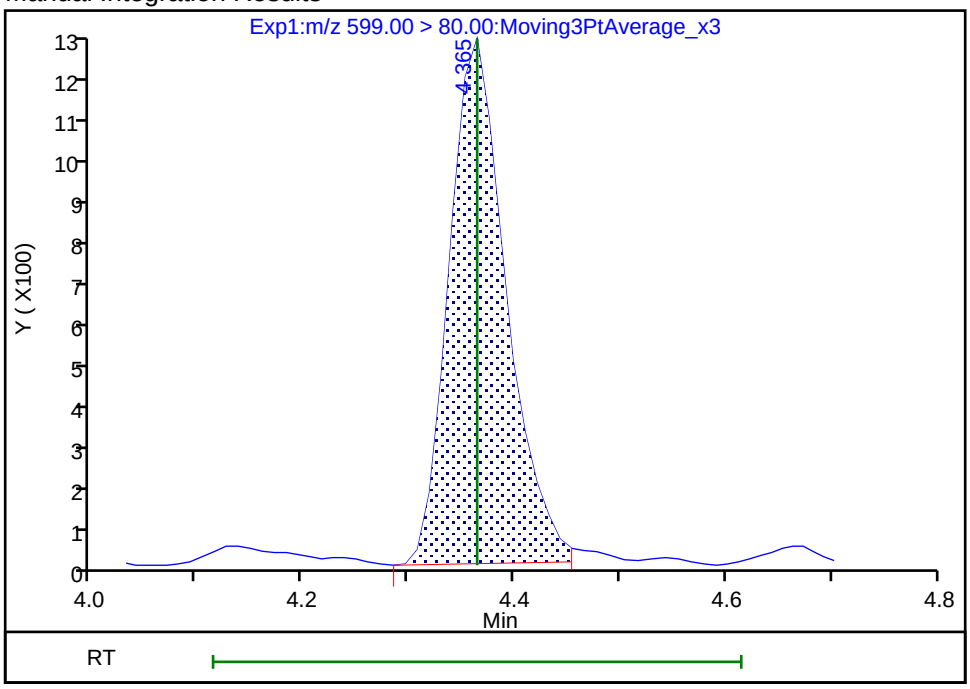
Processing Integration Results

RT: 4.36
Area: 4520
Amount: 0.007947
Amount Units: ng/ml



Manual Integration Results

RT: 4.36
Area: 4643
Amount: 0.008182
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:39:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

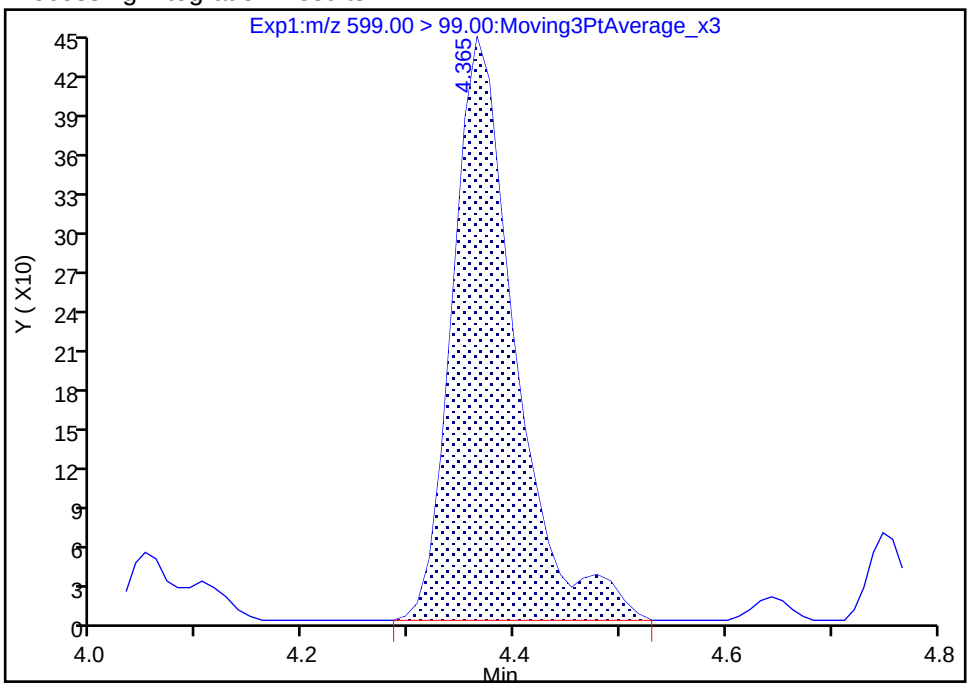
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d
Injection Date: 13-Jun-2022 17:33:32 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

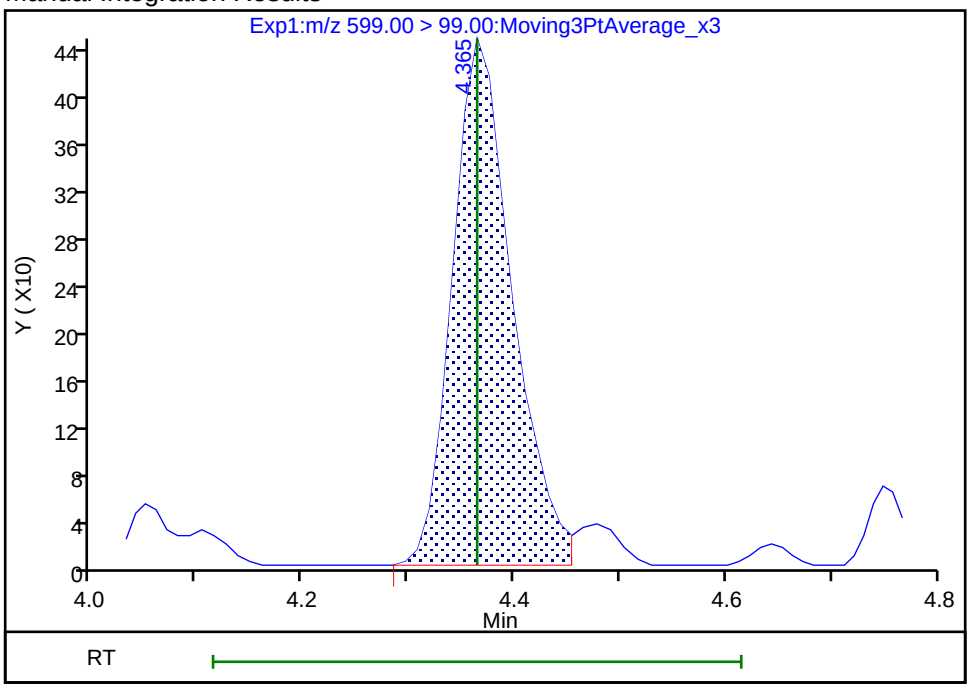
Processing Integration Results

RT: 4.36
Area: 1842
Amount: 0.007947
Amount Units: ng/ml



Manual Integration Results

RT: 4.36
Area: 1745
Amount: 0.008182
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:39:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

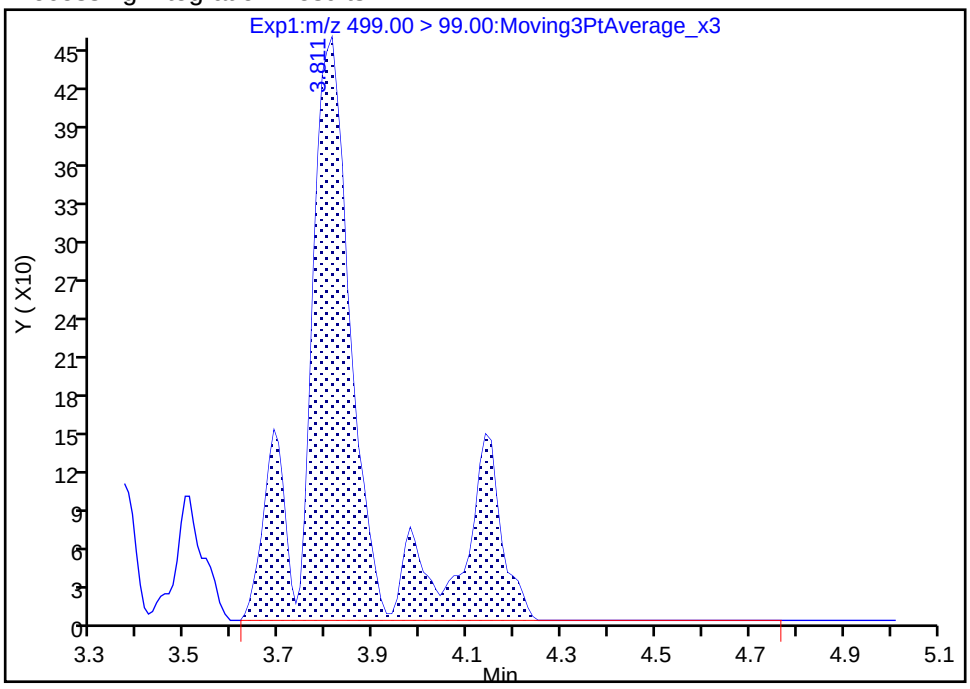
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d
Injection Date: 13-Jun-2022 17:33:32 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

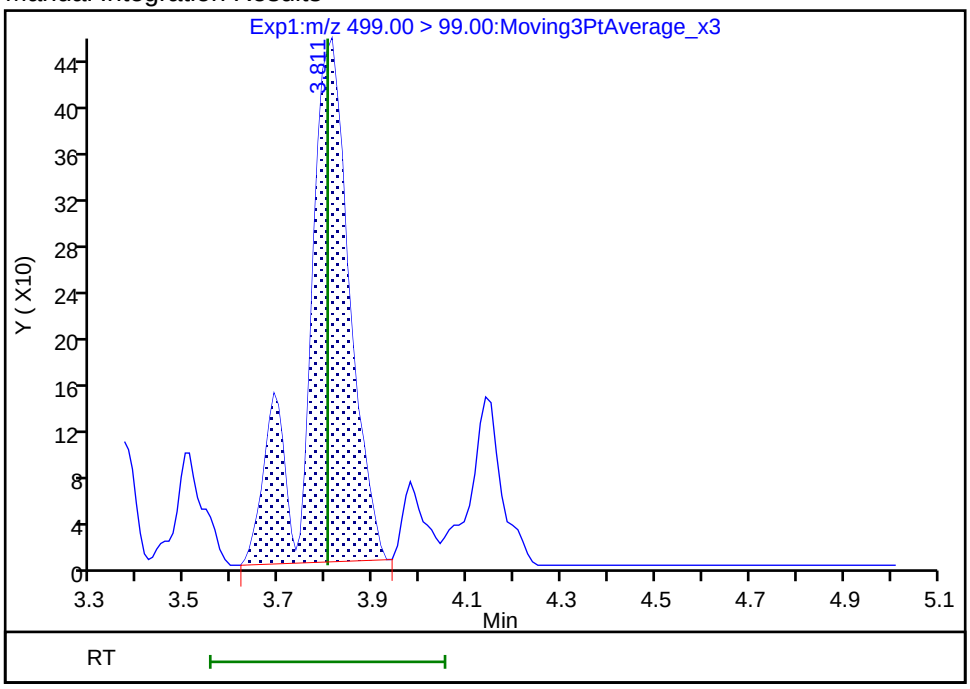
Processing Integration Results

RT: 3.81
Area: 3835
Amount: 0.019664
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 2860
Amount: 0.009220
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:36:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

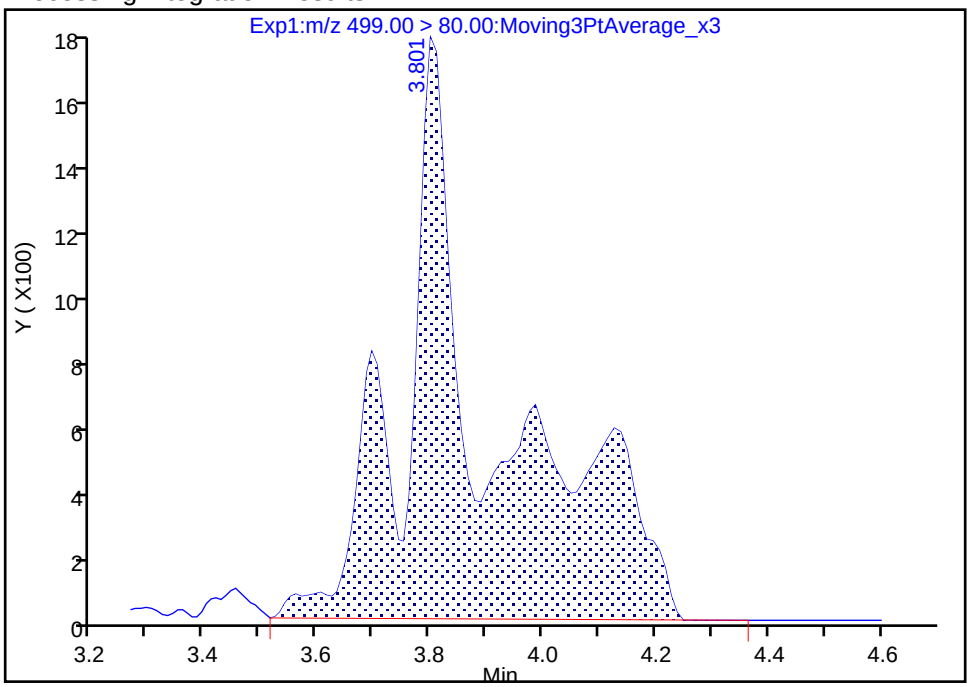
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d
Injection Date: 13-Jun-2022 17:33:32 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

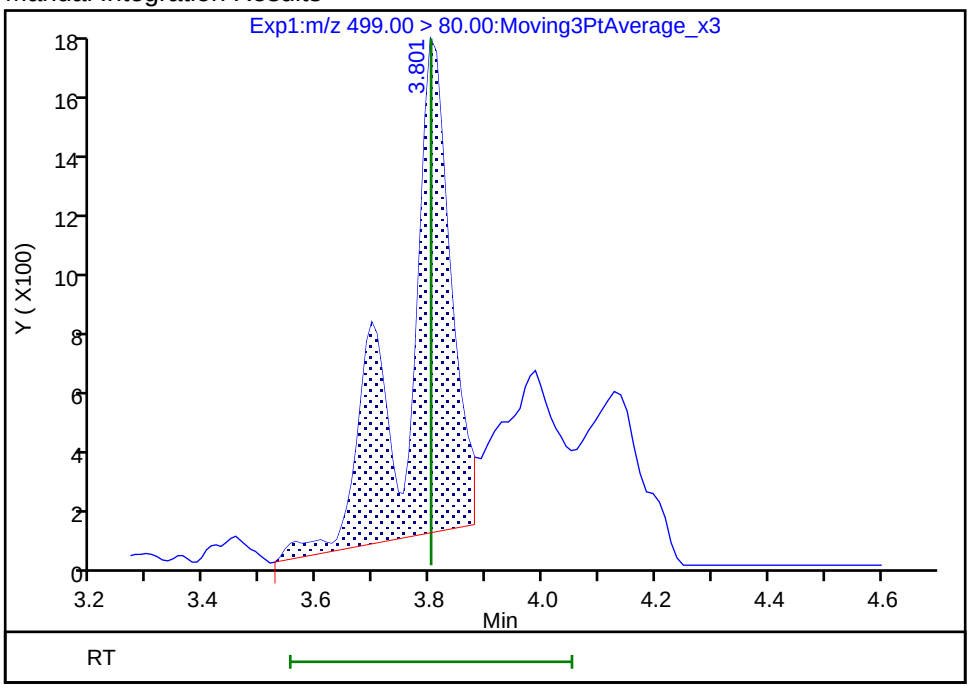
Processing Integration Results

RT: 3.80
Area: 19365
Amount: 0.019664
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 9059
Amount: 0.009220
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:05:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

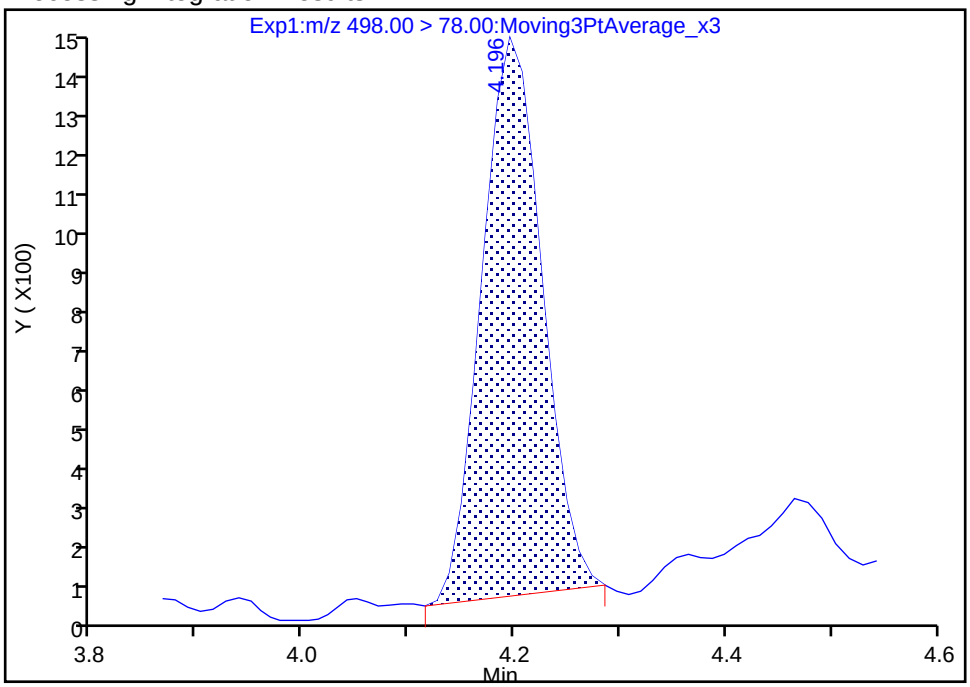
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d
Injection Date: 13-Jun-2022 17:33:32 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

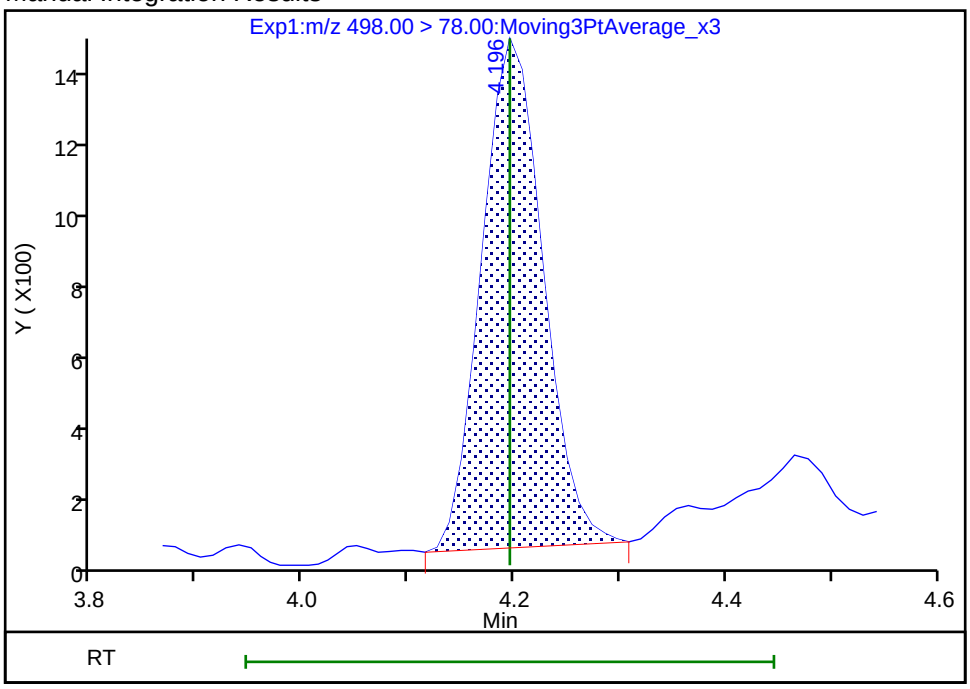
Processing Integration Results

RT: 4.20
Area: 5398
Amount: 0.003831
Amount Units: ng/ml



Manual Integration Results

RT: 4.20
Area: 5547
Amount: 0.003966
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:38:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

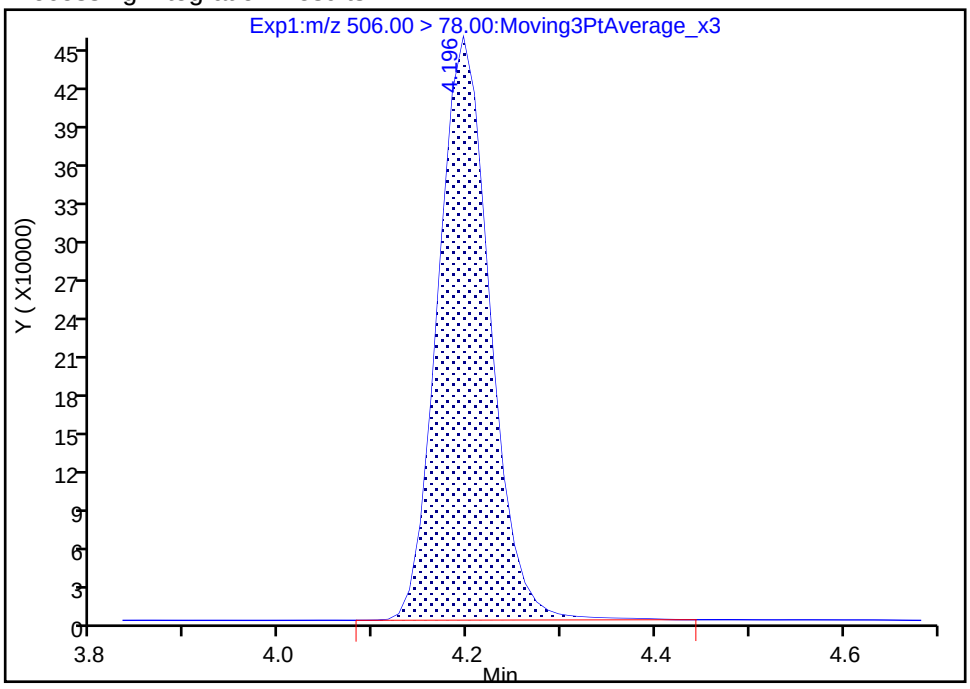
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d
Injection Date: 13-Jun-2022 17:33:32 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

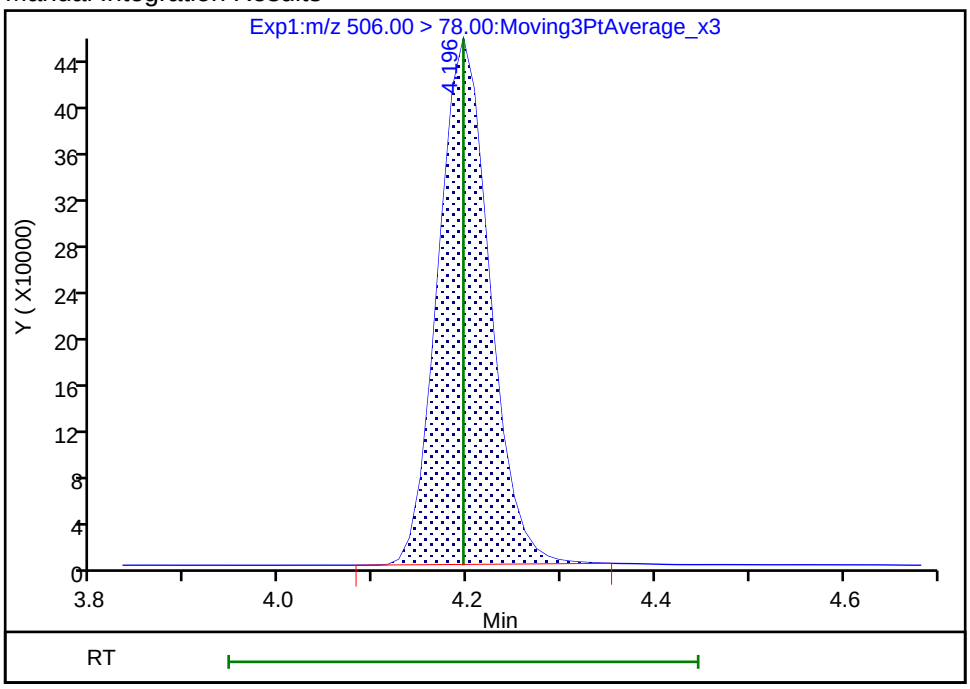
Processing Integration Results

RT: 4.20
Area: 1735658
Amount: 1.080704
Amount Units: ng/ml



Manual Integration Results

RT: 4.20
Area: 1722729
Amount: 1.072654
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:06:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

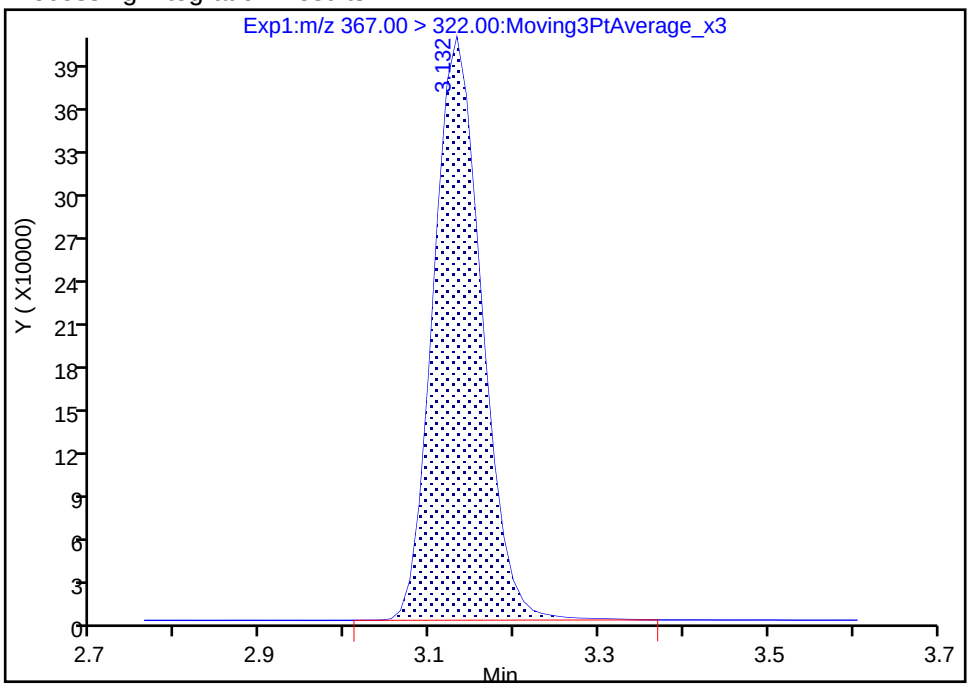
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d
Injection Date: 13-Jun-2022 17:33:32 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

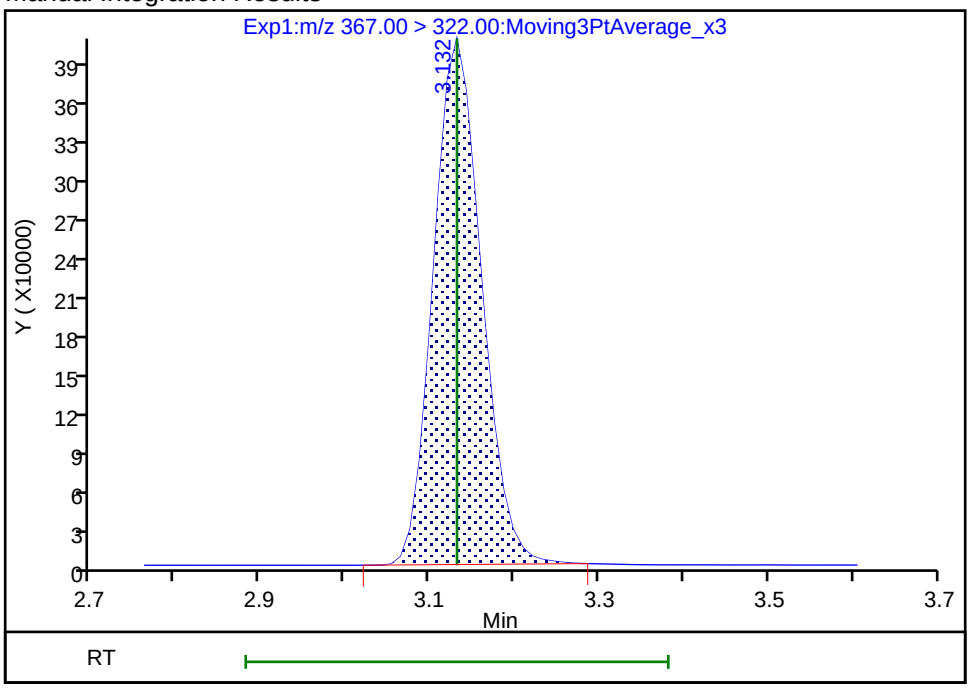
Processing Integration Results

RT: 3.13
Area: 1619985
Amount: 1.220980
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 1609680
Amount: 1.213213
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:05:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

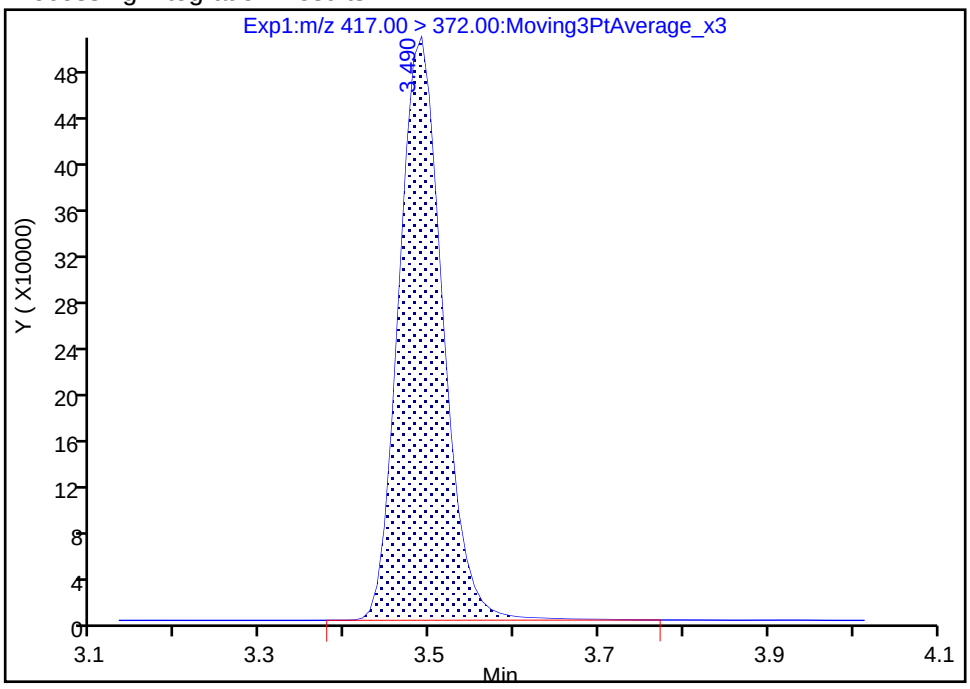
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d
Injection Date: 13-Jun-2022 17:33:32 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

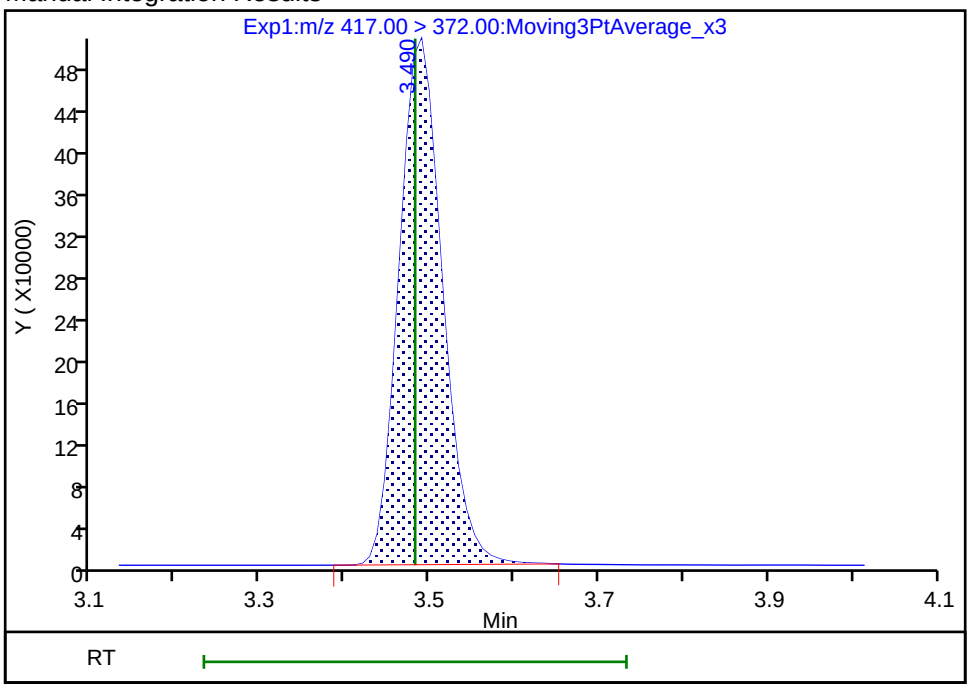
Processing Integration Results

RT: 3.49
Area: 1805886
Amount: 1.294377
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 1794604
Amount: 1.286291
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:05:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

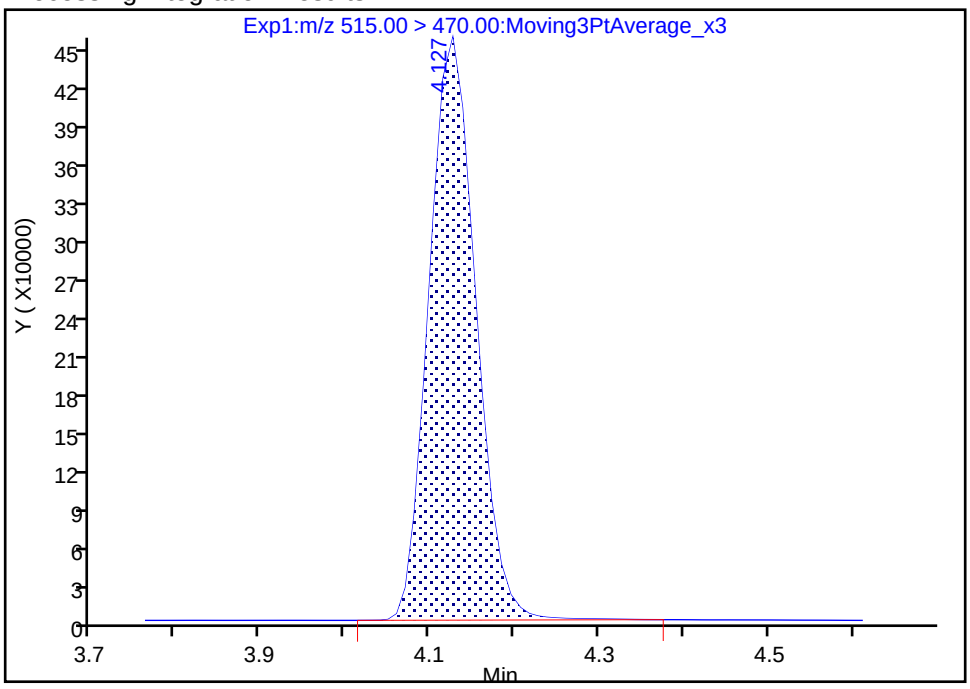
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d				
Injection Date:	13-Jun-2022 17:33:32	Instrument ID:	LC812		
Lims ID:	CCB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	1	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

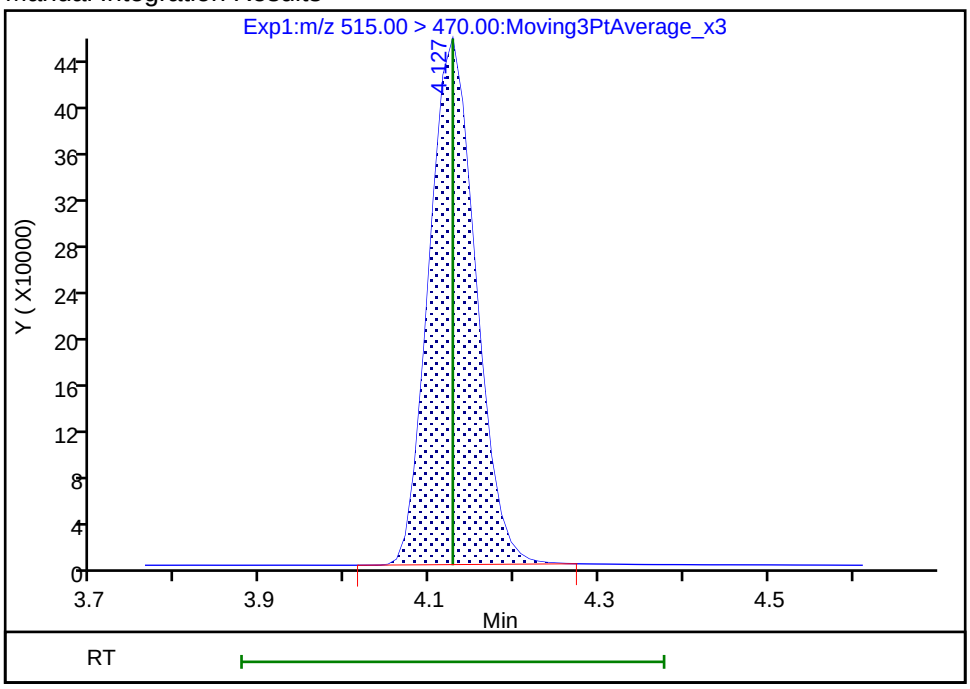
Processing Integration Results

RT: 4.13
Area: 1750169
Amount: 1.198919
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 1740817
Amount: 1.192513
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:05:55

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

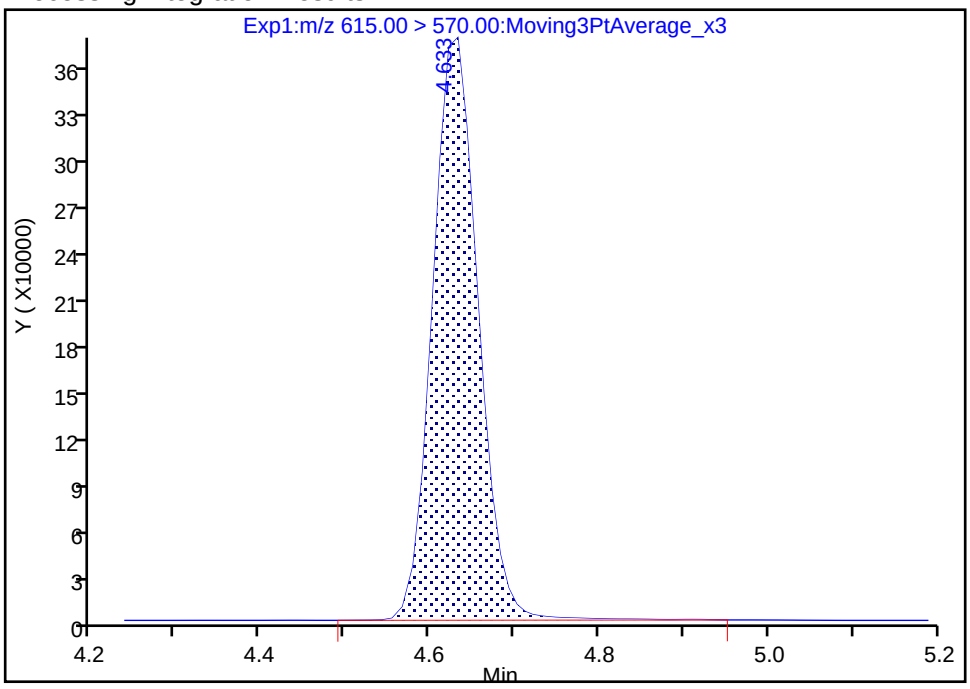
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d				
Injection Date:	13-Jun-2022 17:33:32	Instrument ID:	LC812		
Lims ID:	CCB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	1	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 36 13C2 PFDoA, CAS: STL00998

Signal: 1

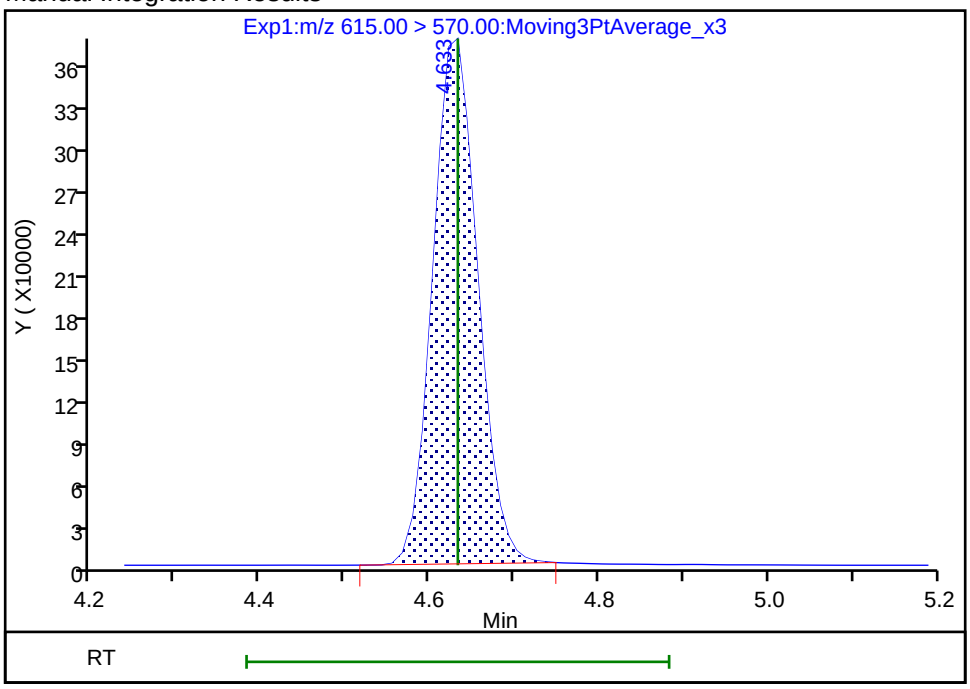
Processing Integration Results

RT: 4.63
Area: 1382771
Amount: 1.104712
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 1363339
Amount: 1.089187
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:07:00

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

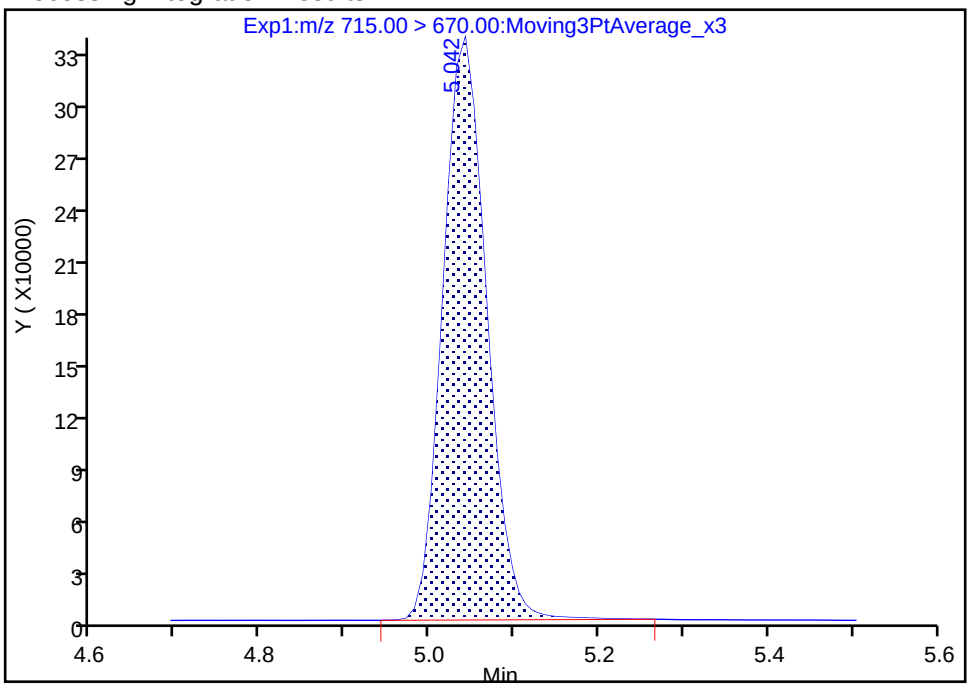
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d				
Injection Date:	13-Jun-2022 17:33:32	Instrument ID:	LC812		
Lims ID:	CCB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	1	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

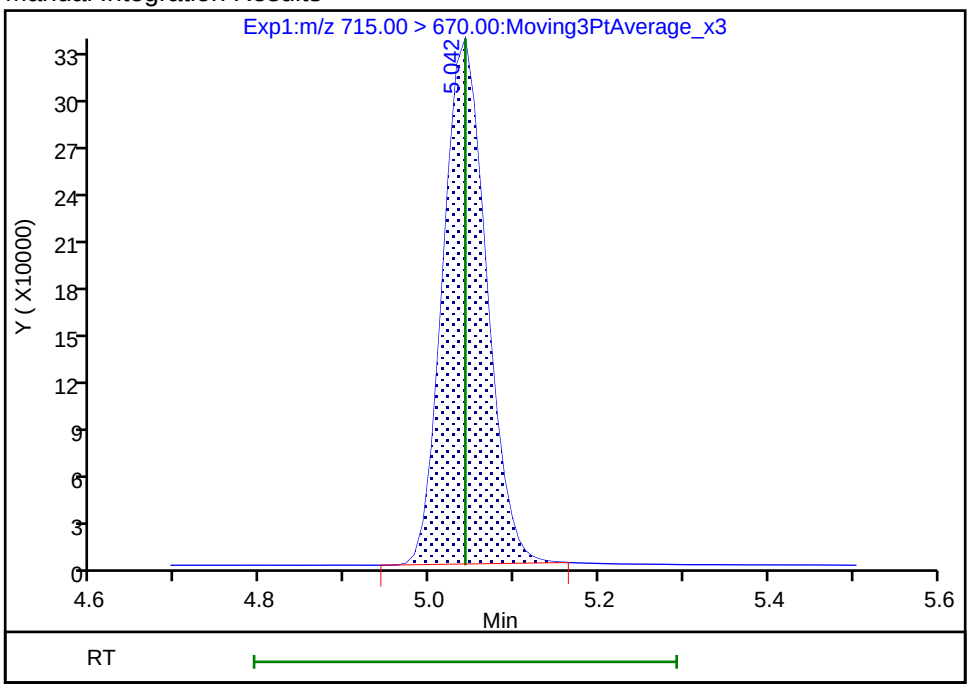
Processing Integration Results

RT: 5.04
Area: 1183133
Amount: 1.156519
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 1171816
Amount: 1.145456
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:07:12

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

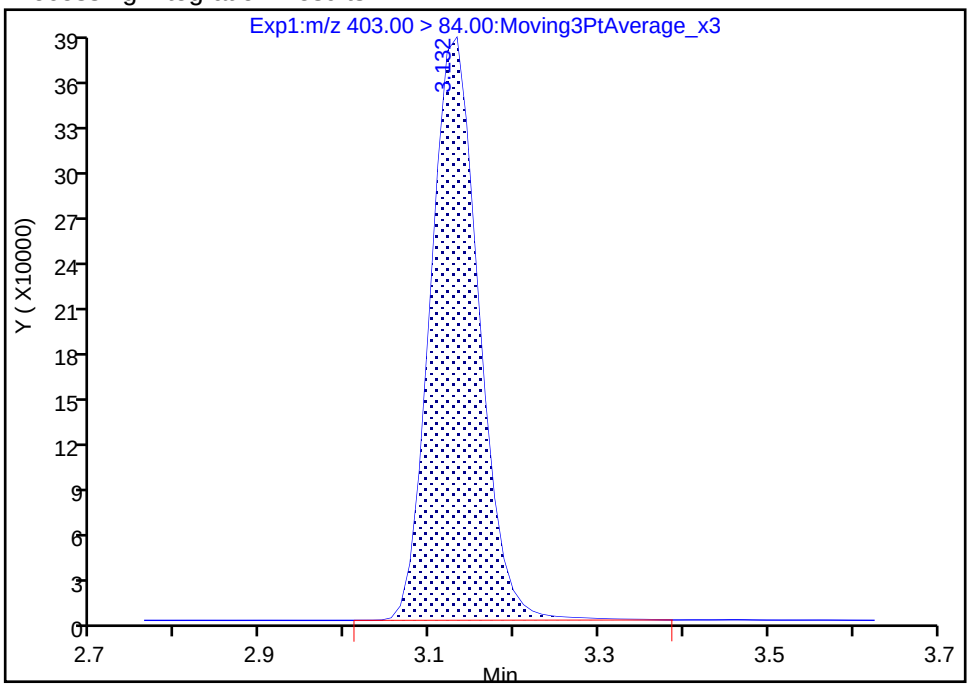
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d
Injection Date: 13-Jun-2022 17:33:32 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

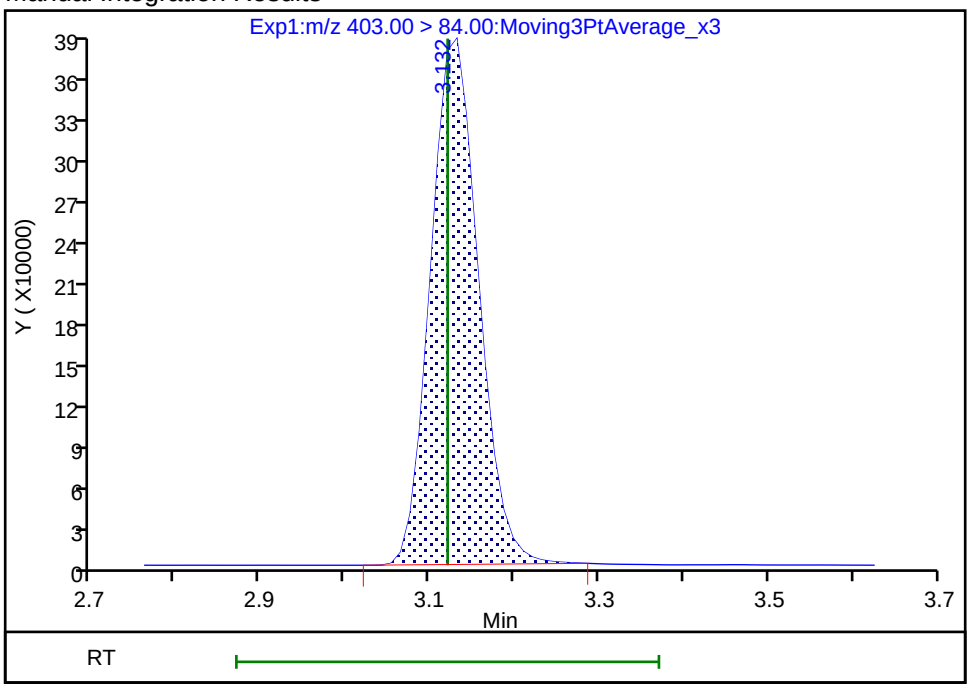
Processing Integration Results

RT: 3.13
Area: 1509042
Amount: 1.106446
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 1496874
Amount: 1.097524
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:04:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

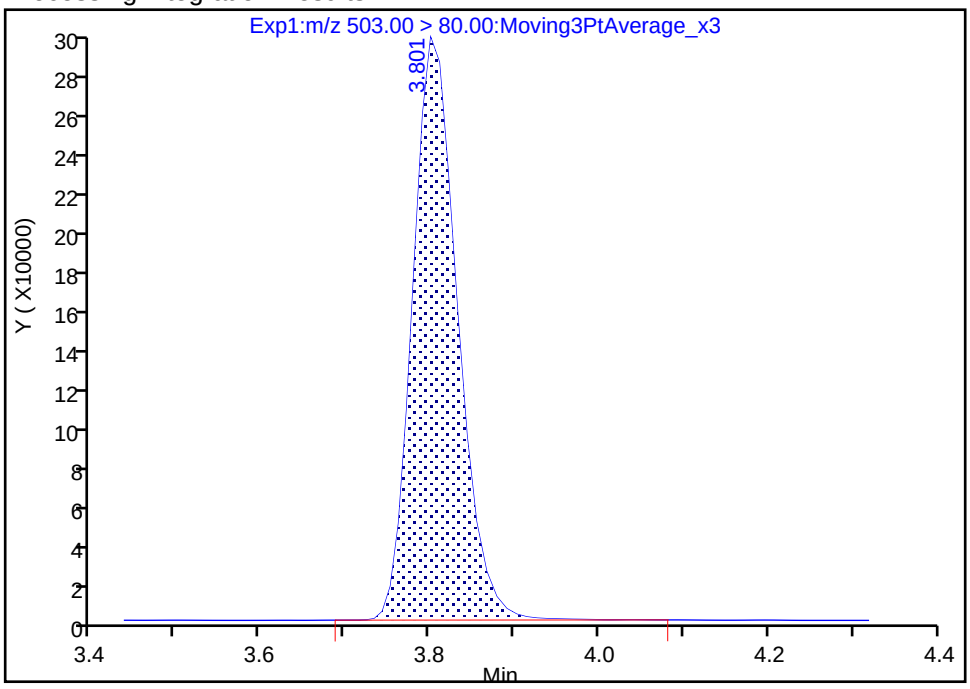
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d
Injection Date: 13-Jun-2022 17:33:32 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

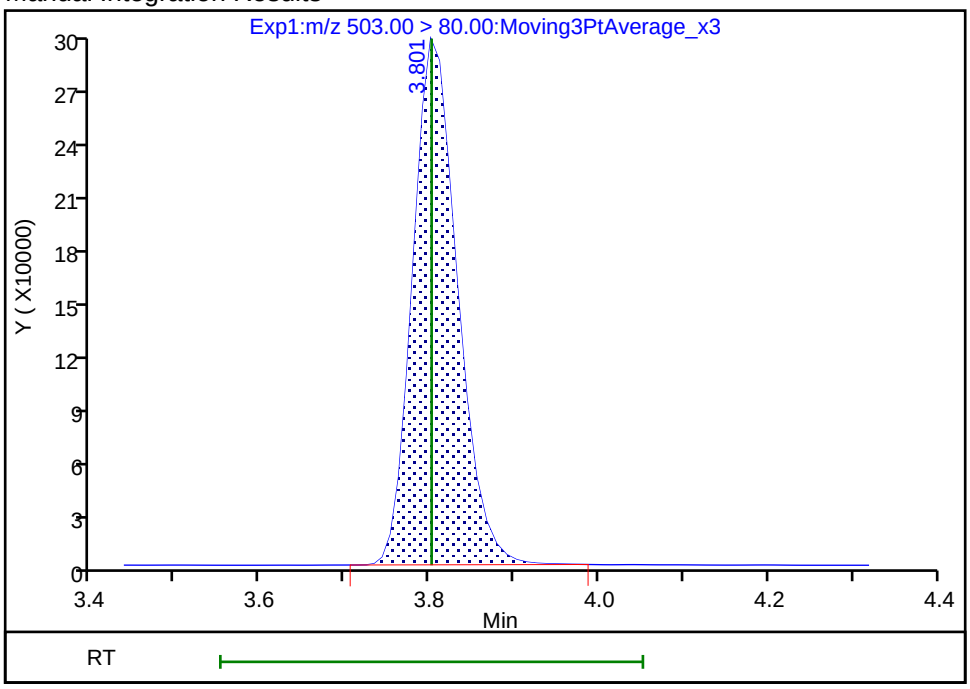
Processing Integration Results

RT: 3.80
Area: 1102008
Amount: 1.028527
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 1099509
Amount: 1.026195
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:05:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

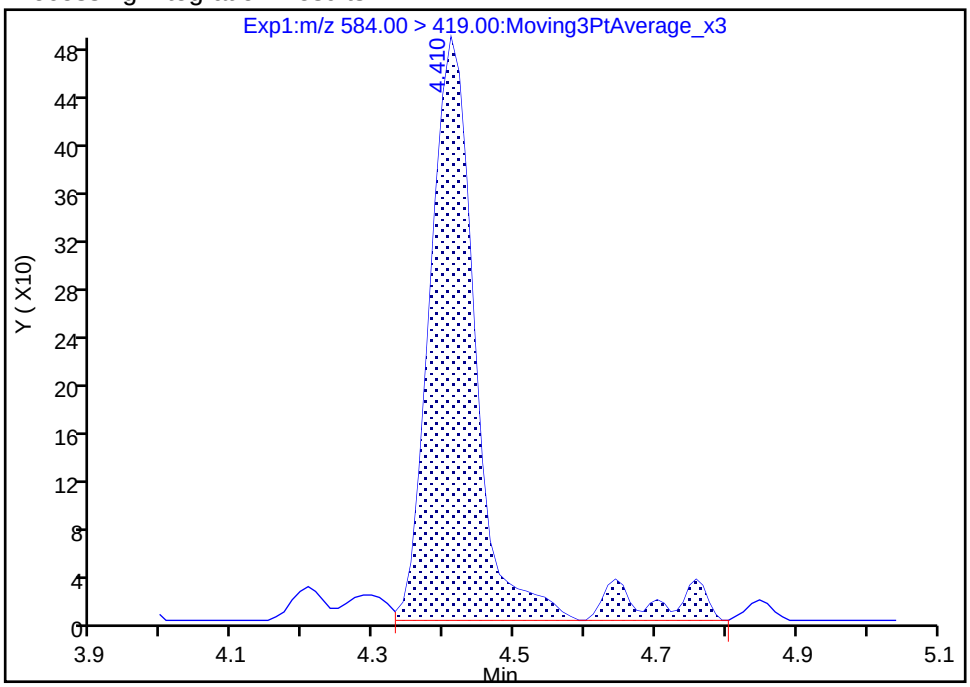
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d
Injection Date: 13-Jun-2022 17:33:32 Instrument ID: LC812
Lims ID: CCB
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

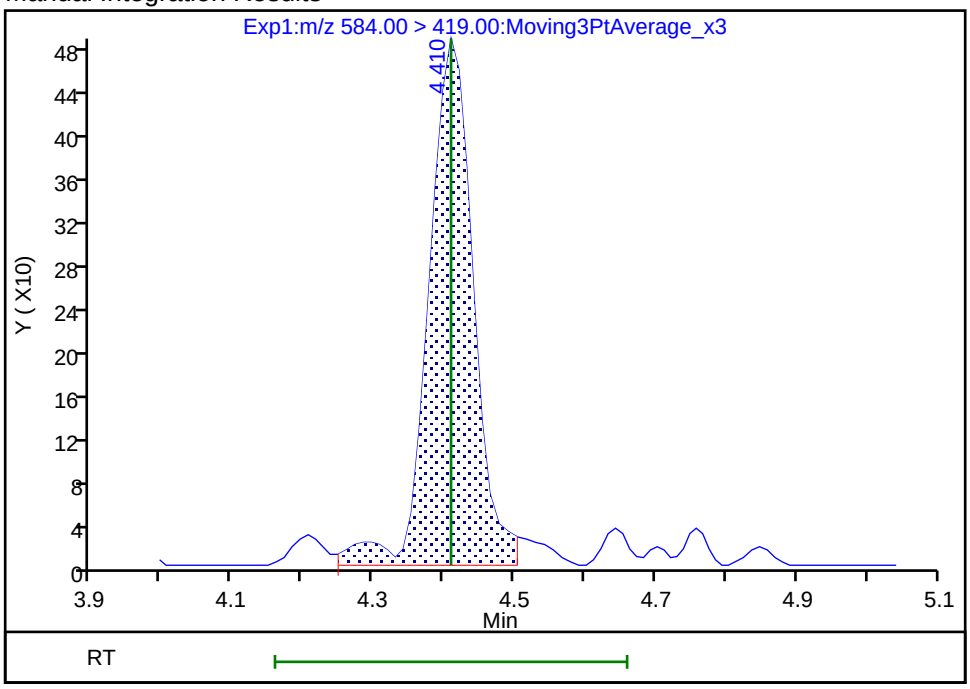
Processing Integration Results

RT: 4.41
Area: 2310
Amount: 0.011370
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 2123
Amount: 0.010449
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 09:06:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

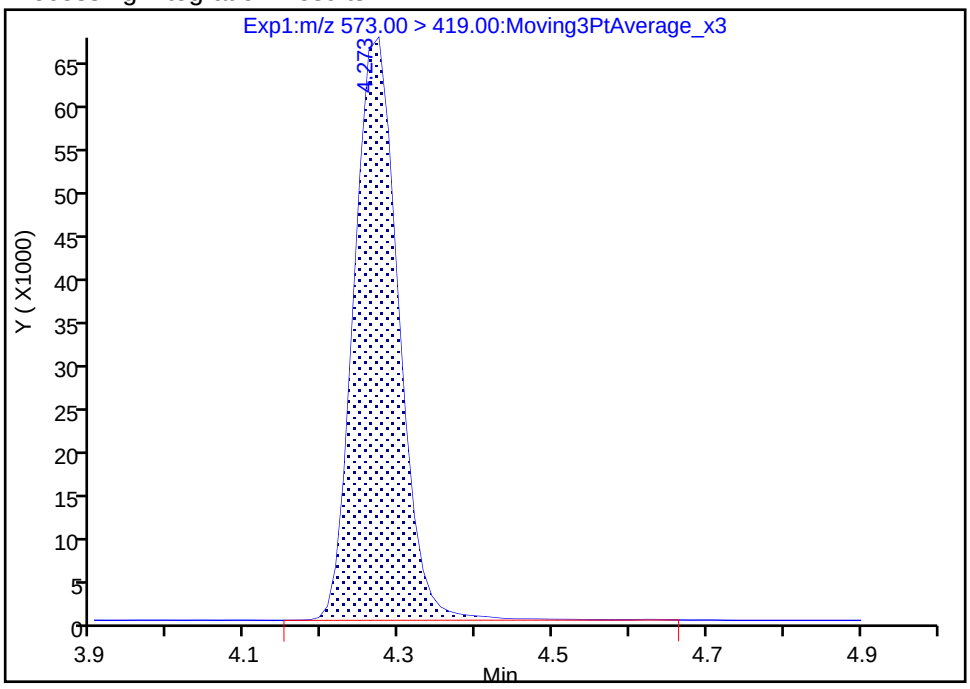
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A04.d				
Injection Date:	13-Jun-2022 17:33:32	Instrument ID:	LC812		
Lims ID:	CCB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	1	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

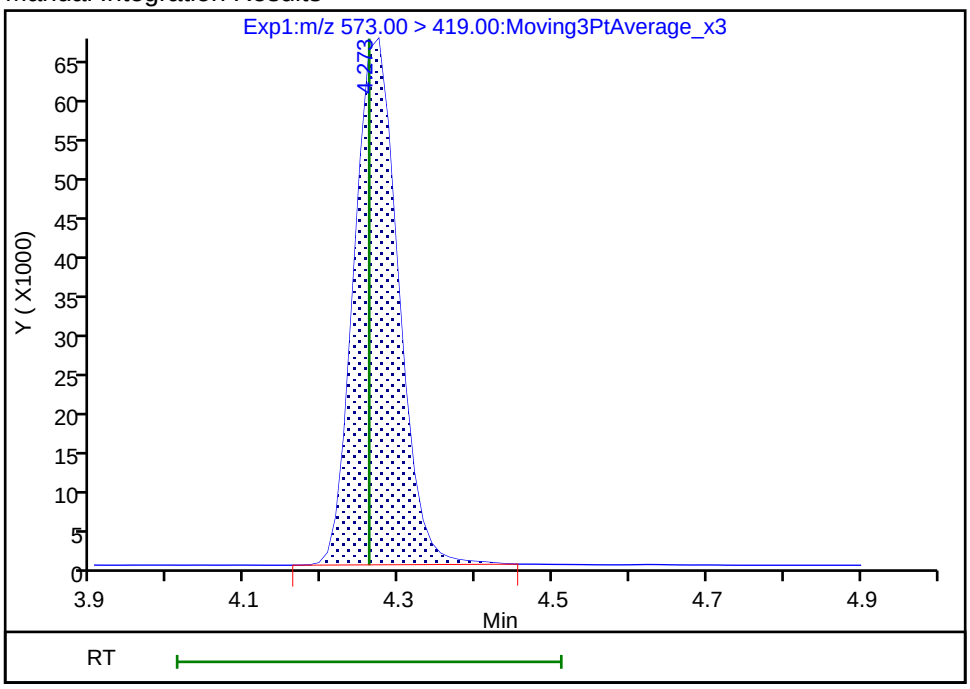
Processing Integration Results

RT: 4.27
Area: 270746
Amount: 1.397292
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 269073
Amount: 1.388658
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:32:25

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: Lab Sample ID: ICB 200-179551/11

Matrix: Water Lab File ID: PA220505ICAL11.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 05/05/2022 16:02

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 179551 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.13	
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.050	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.0161	J	0.050	
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.0169	J	0.050	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.050	
375-95-1	Perfluorononanoic acid (PFNA)	0.0188	J	0.050	
335-76-2	Perfluorodecanoic acid (PFDA)	0.0163	J	0.050	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.050	
307-55-1	Perfluorododecanoic acid (PFDoA)	0.0172	J	0.050	
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.0172	J	0.050	
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.0220	J	0.050	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.050	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.0173	J	0.050	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.0147	J	0.050	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.0130	J	0.050	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.050	
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		0.050	
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.13	
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.0461	J	0.13	
27619-97-2	6:2 FTS	ND		0.13	
39108-34-4	8:2 FTS	ND		0.050	

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: Lab Sample ID: ICB 200-179551/11

Matrix: Water Lab File ID: PA220505ICAL11.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 05/05/2022 16:02

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 179551 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	99		50-150
STL00992	13C4 PFBA	100		50-150
STL01893	13C5 PFPeA	98		50-150
STL00993	13C2 PFHxA	100		50-150
STL01892	13C4 PFHpA	106		50-150
STL00990	13C4 PFOA	101		50-150
STL00995	13C5 PFNA	99		50-150
STL00996	13C2 PFDA	100		50-150
STL00997	13C2 PFUnA	104		50-150
STL00998	13C2 PFDoA	100		50-150
STL02116	13C2 PFTeDA	104		50-150
STL02337	13C3 PFBS	101		50-150
STL00994	18O2 PFHxS	103		50-150
STL00991	13C4 PFOS	95		50-150
STL02118	d3-NMeFOSAA	98		50-150
STL02117	d5-NEtFOSAA	104		50-150
STL02279	M2-6:2 FTS	98		50-150
STL02280	M2-8:2 FTS	100		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Lims ID: ICB
Client ID:
Sample Type: ICB
Inject. Date: 05-May-2022 16:02:38 ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ICB
Misc. Info.: 200-0050718-011 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 06-May-2022 08:27:13 Calib Date: 05-May-2022 15:54:29
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1646

First Level Reviewer: deannd Date: 06-May-2022 08:01:55
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.102	2.102	0.0	1.000	21318	0.0159			4.7	M
D 1 13C4 PFBA										M
217.00 > 172.00	2.102	2.102	0.0	0.602	1780328	1.26		100	7343	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.414	2.413	0.001	0.691	1334914	1.23		98.5	4060	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.414	2.413	0.001	1.000	15976	0.0147			0.9	
D 47 13C3 PFBS										M
301.90 > 80.00	2.427	2.427	0.0	0.695	1854743	1.18		101	208396	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.440	2.440	0.0	1.006	23231	0.0134	Target=2.15		33.3	M
298.90 > 99.00	2.427	2.440	-0.013	1.000	10316		2.25(1.07-3.22)		6.7	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.738	2.738	0.0	1.000	5218	0.0172			77.8	M
D 60 M2-4:2 FTS										
329.00 > 81.00	2.738	2.738	0.0	0.784	141281	1.09		93.1	164	
D 7 13C2 PFHxA										
315.00 > 270.00	2.774	2.774	0.0	0.795	1384791	1.25		99.9	3503	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.774	2.774	0.0	1.000	19303	0.0161	Target=12.59		2.6	M
313.00 > 119.00	2.799	2.774	0.025	1.009	2228		8.66(6.29-18.88)		1.1	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.774	2.774	0.0	0.886	20120	0.0129	Target=2.96		33.4	M
349.00 > 99.00	2.774	2.774	0.0	0.886	6916		2.91(1.48-4.44)		17.1	M
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.884	2.884	0.0	0.826	255843	1.35		108	1683	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.884	2.884	0.0	1.000	4078	0.0183			54.6	M
D 11 18O2 PFHxS										M
403.00 > 84.00	3.132	3.132	0.0	0.897	1497723	1.22		103	1446	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.132	3.132	0.0	1.000	24150	0.0173	Target=3.53		65.6	M
399.00 > 99.00	3.132	3.132	0.0	1.000	6359		3.80(1.76-5.29)		8.2	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.132	3.143	-0.011	0.897	1591592	1.33		106	2958	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.132	3.143	-0.011	1.000	21786	0.0169	Target=3.75		5.5	M
363.00 > 169.00	3.132	3.143	-0.011	1.000	4450		4.90(1.87-5.62)		4.8	M
77 DONA										M
377.00 > 251.00	3.177	3.176	0.001	0.833	45746	0.0155	Target=2.77		67.7	M
377.00 > 85.00	3.177	3.176	0.001	0.833	16458		2.78(1.38-4.15)		41.2	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.483	3.482	0.001	0.914	16249	0.0147	Target=4.90		72.7	M
449.00 > 99.00	3.483	3.482	0.001	0.914	2316		7.02(2.45-7.35)		9.4	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.474	3.482	-0.008	0.997	9457	0.003865			13.0	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.483	3.482	0.001	0.998	233879	1.17		98.2	526	
D 14 13C4 PFOA										M
417.00 > 372.00	3.492	3.491	0.001	1.000	1594609	1.27		101	1709	M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.492	3.500	-0.008	1.000	24419	0.0171	Target=2.68		3.3	M
413.00 > 169.00	3.500	3.500	0.0	1.002	8298		2.94(1.34-4.02)		19.7	
* 62 13C2 PFOA										M
415.00 > 370.00	3.492	3.500	-0.008		1670380	1.25			1989	M
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.813	3.812	0.001	1.000	18466	0.0188	Target=4.47		16.6	RM
499.00 > 99.00	3.813	3.812	0.001	1.000	2558		7.22(2.24-6.71)		10.4	M
D 18 13C4 PFOS										
503.00 > 80.00	3.813	3.812	0.001	1.092	1101311	1.14		95.4	3011	
D 19 13C5 PFNA										
468.00 > 423.00	3.823	3.834	-0.011	1.095	1692661	1.24		99.1	3417	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.834	3.834	0.0	1.003	24662	0.0188	Target=7.74		3.6	M
463.00 > 169.00	3.834	3.834	0.0	1.003	3381		7.29(3.87-11.61)		32.7	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.969	3.978	-0.009	1.041	25409	0.0156			84.6	M
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.105	4.104	0.001	1.077	9044	0.0121	Target=2.49		78.9	M
549.00 > 99.00	4.105	4.104	0.001	1.077	4825		1.87(1.24-3.73)		20.8	M
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.128	4.127	0.001	1.000	22738	0.0163	Target=9.31		11.5	M
513.00 > 169.00	4.128	4.127	0.001	1.000	2205		10.31(4.65-13.96)		12.7	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										M
515.00 > 470.00	4.128	4.138	-0.010	1.182	1641277	1.25		99.8	1921	M
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.139	4.138	0.001	1.000	3832	0.0142			78.2	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.139	4.138	0.001	1.185	289979	1.20		100	886	
D 21 13C8 FOSA										M
506.00 > 78.00	4.196	4.196	0.0	1.202	1783231	1.23		98.5	2088	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.196	4.207	-0.011	1.000	21925	0.0151			44.1	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.275	4.273	0.002	1.224	213421	1.22		97.7	911	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.275	4.273	0.002	1.000	7154	0.0461			26.7	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.366	4.376	-0.010	1.145	7411	0.0130	Target=2.56		57.5	M
599.00 > 99.00	4.366	4.376	-0.010	1.145	3803		1.95(1.28-3.84)		39.1	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.400	4.399	0.001	1.000	15458	0.0136	Target=9.41		11.1	M
563.00 > 169.00	4.400	4.399	0.001	1.000	1914		8.08(4.70-14.11)		22.6	M
D 30 13C2 PFUnA										M
565.00 > 520.00	4.400	4.399	0.001	1.260	1378916	1.30		104	1904	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.411	4.410	0.001	1.263	221317	1.30		104	1520	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.411	4.410	0.001	1.000	7662	0.0461			44.6	M
66 11-Chloroeicosafluoro-3-oxaundec										M
631.00 > 451.00	4.492	4.504	-0.012	1.178	33055	0.0147			163	M
D 36 13C2 PFDoA										M
615.00 > 570.00	4.633	4.633	0.0	1.327	1408284	1.25		99.8	1769	M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.633	4.633	0.0	1.000	19931	0.0172	Target=6.95		3.3	
613.00 > 169.00	4.633	4.633	0.0	1.000	2602		7.66(3.48-10.43)		36.7	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.654	4.653	0.001	1.124	2156	0.0161			37.4	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.813	4.812	0.001	1.262	4149	0.0161	Target=0.55		61.7	M
699.00 > 99.00	4.813	4.812	0.001	1.262	6386		0.65(0.27-0.82)		76.0	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.848	4.848	0.0	1.046	16990	0.0172	Target=4.44		3.9	M
663.00 > 169.00	4.848	4.848	0.0	1.046	3741		4.54(2.22-6.66)		41.7	M
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.042	5.042	0.0	1.000	3267	0.0220	Target=0.96		53.4	M
713.00 > 219.00	5.042	5.042	0.0	1.000	2848		1.15(0.48-1.44)		63.5	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.042	5.042	0.0	1.444	1203706	1.30		104	1911	M

Report Date: 06-May-2022 08:27:28 Chrom Revision: 2.3 02-May-2022 18:31:28
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.400	5.388	0.012	1.547	1286390	1.35		108	1500	M
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.400	5.400	0.0	1.000	28244	0.0112	Target=4.90		6.6	M
813.00 > 169.00	5.400	5.400	0.0	1.000	6161		4.58(2.45-7.36)		103	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.741	5.731	0.010	1.063	12860	0.0179	Target=4.81		4.2	
913.00 > 169.00	5.741	5.731	0.010	1.063	2670		4.82(2.40-7.21)		39.7	M

QC Flag Legend

Processing Flags
R - Failed Signal Ratio Test
Review Flags
M - Manually Integrated

Reagents:

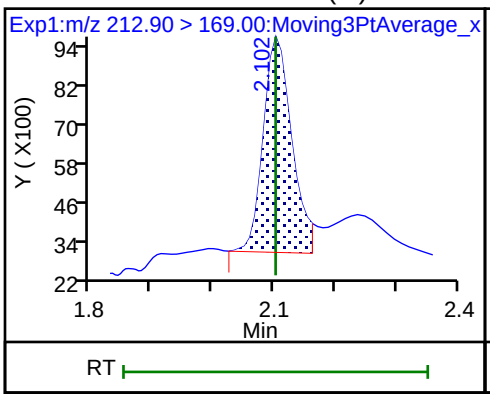
PFAS32NCBLK20_00015 Amount Added: 100.00 Units: uL

Report Date: 06-May-2022 08:27:28 Chrom Revision: 2.3 02-May-2022 18:31:28

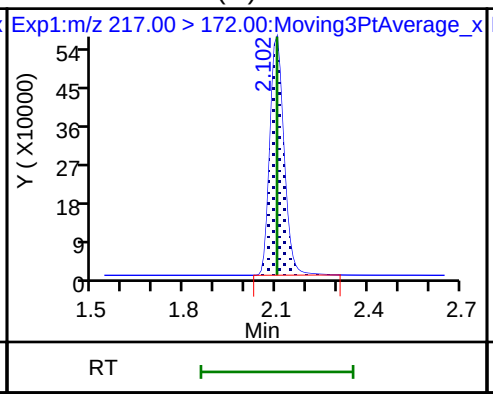
Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL

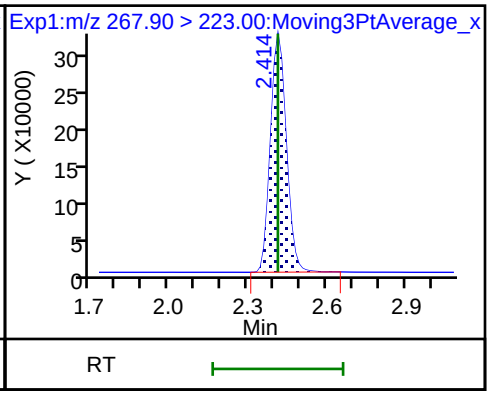
2 Perfluorobutanoic acid (M)



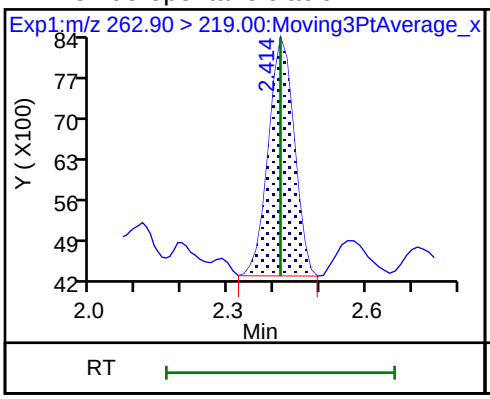
D 1 13C4 PFBA (M)



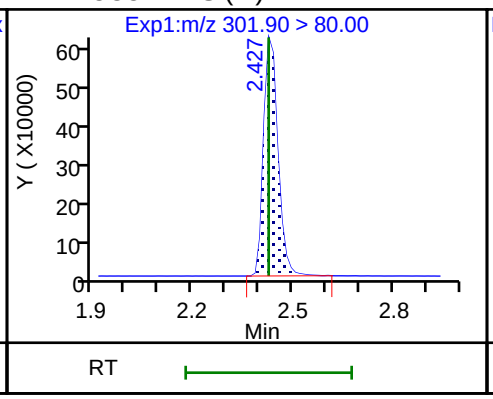
D 3 13C5 PFPeA



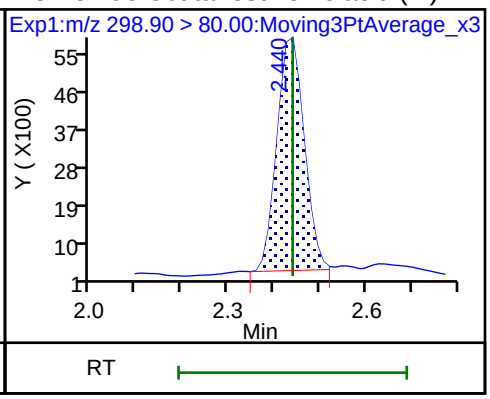
4 Perfluoropentanoic acid



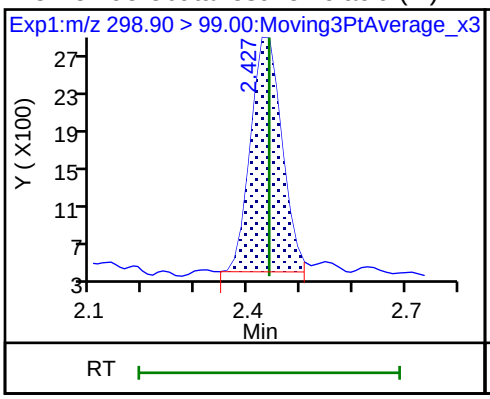
D 47 13C3 PFBS (M)



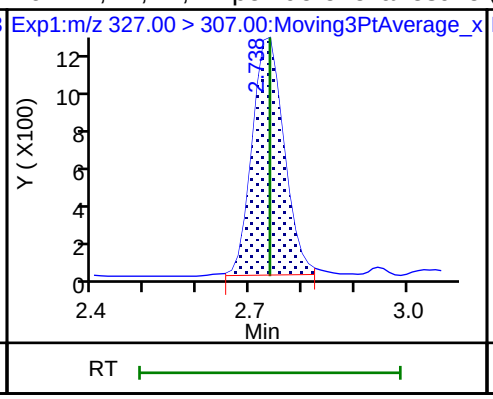
5 Perfluorobutanesulfonic acid (M)



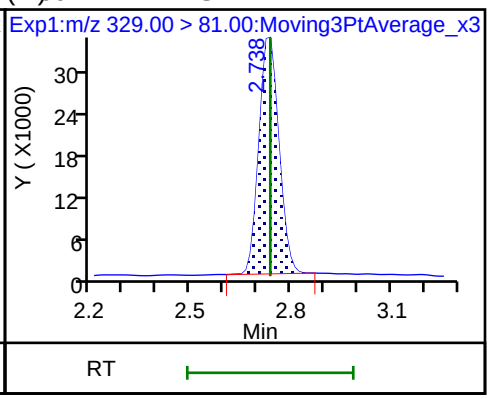
5 Perfluorobutanesulfonic acid (M)



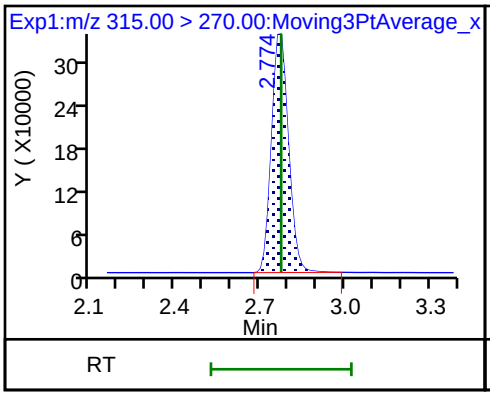
61 1H,1H,2H,2H-perfluorohexanesulfo (M)



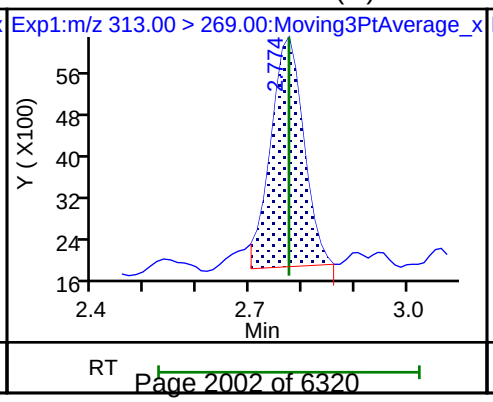
60 M2-4:2 FTS



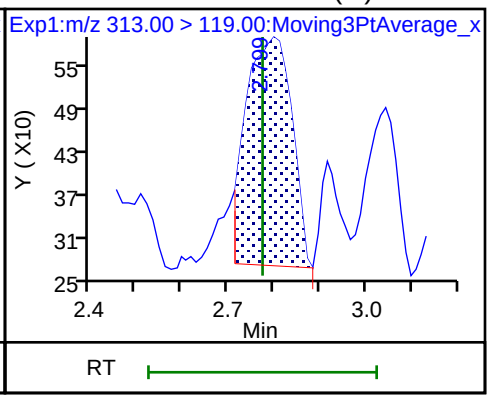
D 7 13C2 PFHxA



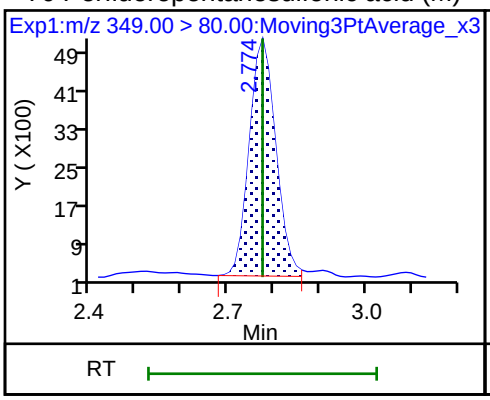
6 Perfluorohexanoic acid (M)



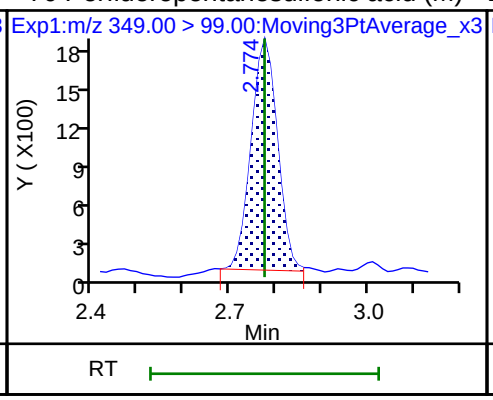
6 Perfluorohexanoic acid (M)



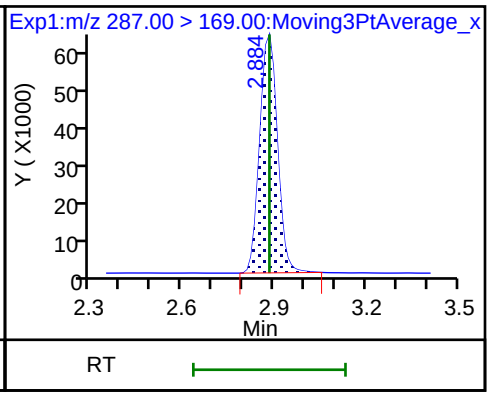
70 Perfluoropentanesulfonic acid (M)



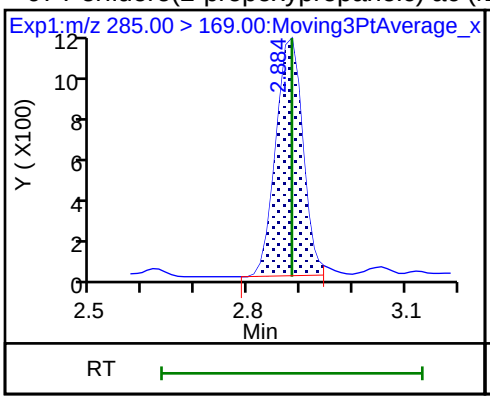
70 Perfluoropentanesulfonic acid (M)



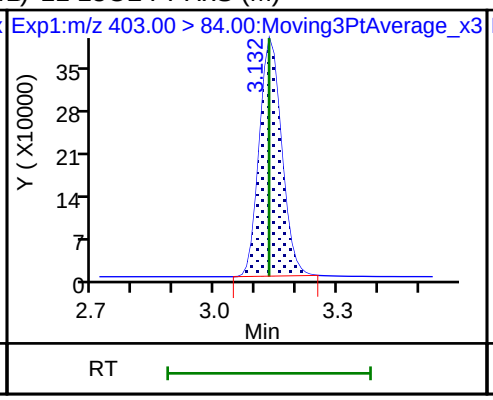
D 64 13C3 HFPO-DA



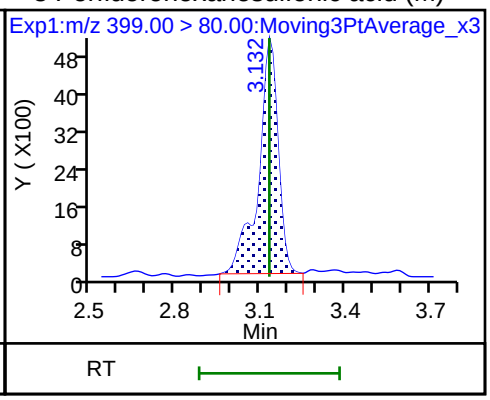
67 Perfluoro(2-propoxypropanoic) ac (M)



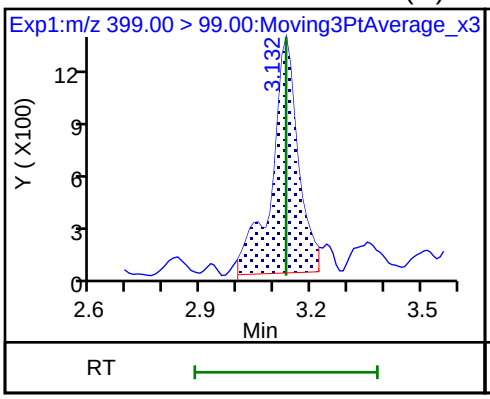
D 11 18O2 PFHxS (M)



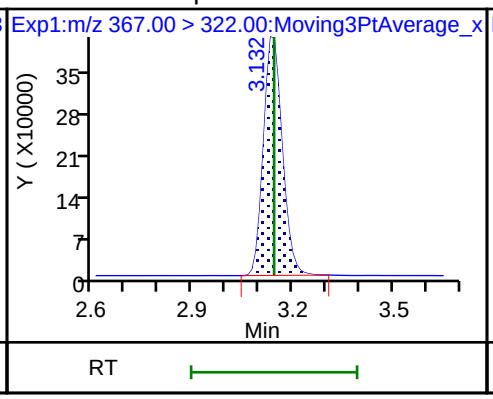
8 Perfluorohexanesulfonic acid (M)



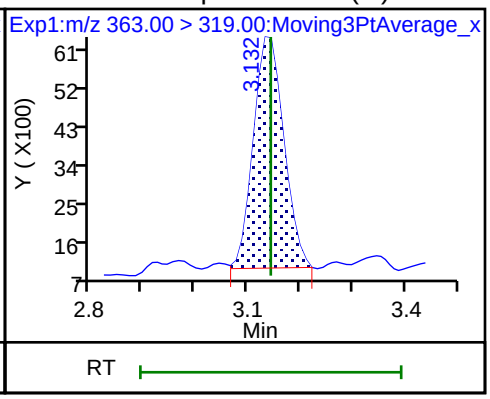
8 Perfluorohexanesulfonic acid (M)



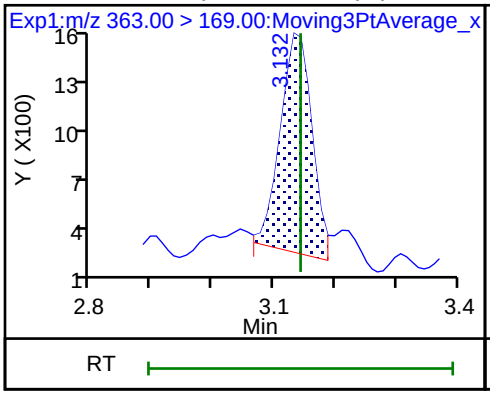
D 9 13C4 PFHpA



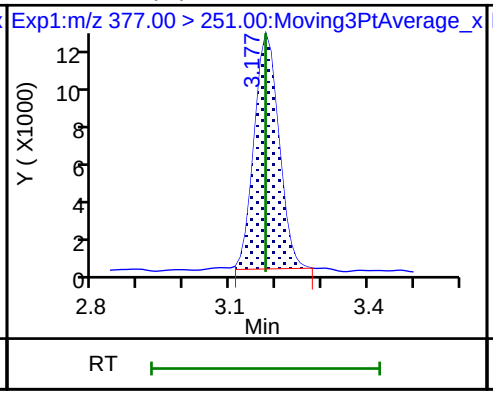
10 Perfluoroheptanoic acid (M)



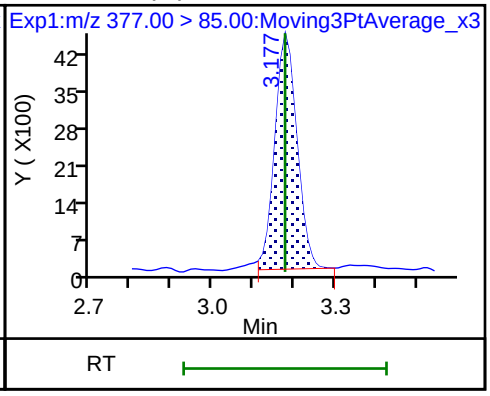
10 Perfluoroheptanoic acid (M)



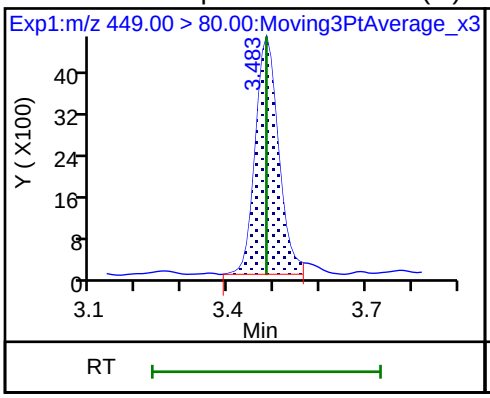
77 DONA (M)



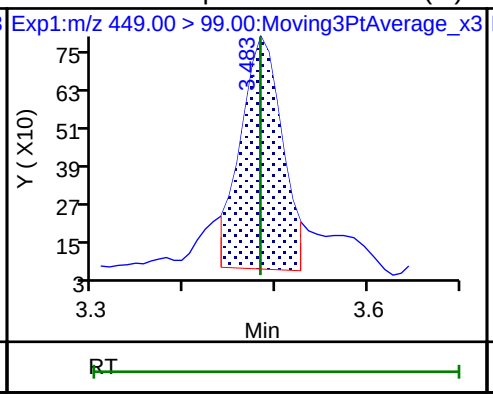
77 DONA (M)



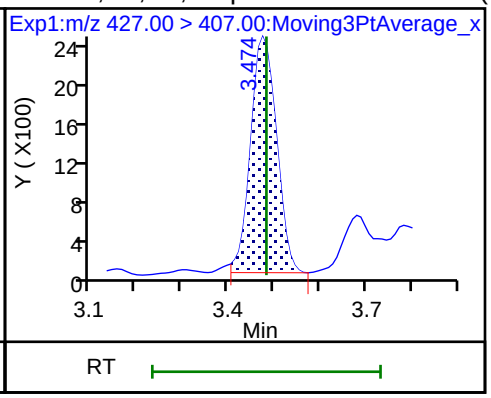
16 Perfluoroheptanesulfonic acid (M)



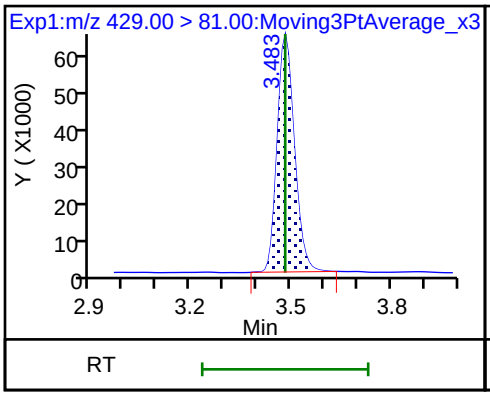
16 Perfluoroheptanesulfonic acid (M)



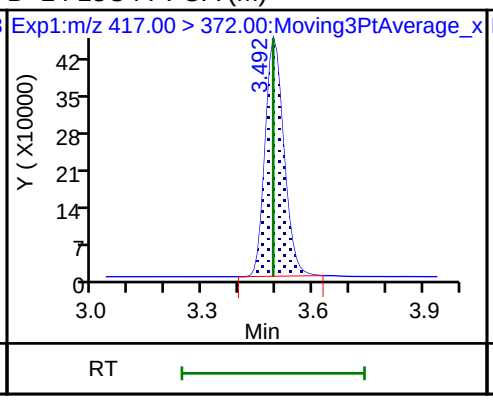
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



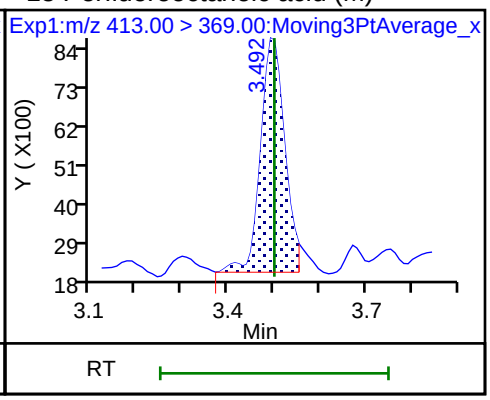
D 12 M2-6:2 FTS



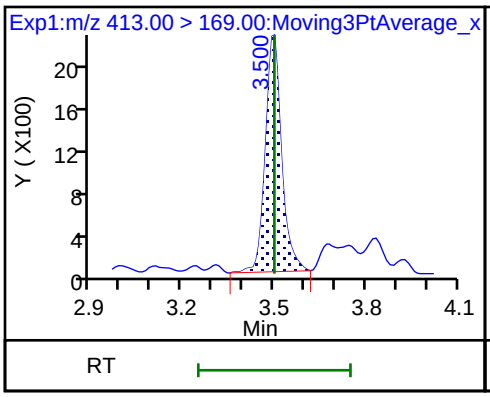
D 14 13C4 PFOA (M)



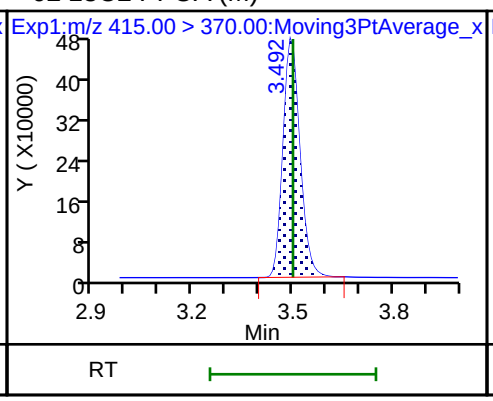
15 Perfluorooctanoic acid (M)



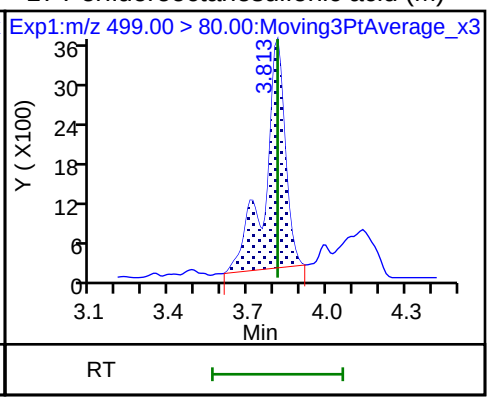
15 Perfluorooctanoic acid



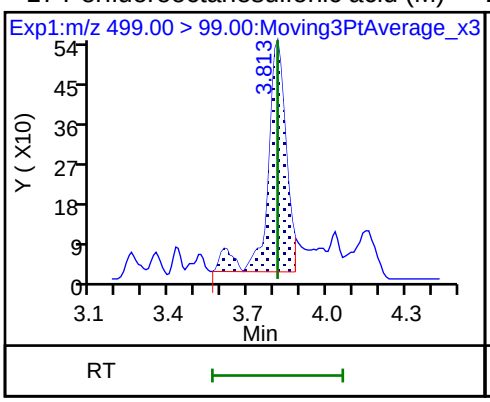
* 62 13C2 PFOA (M)



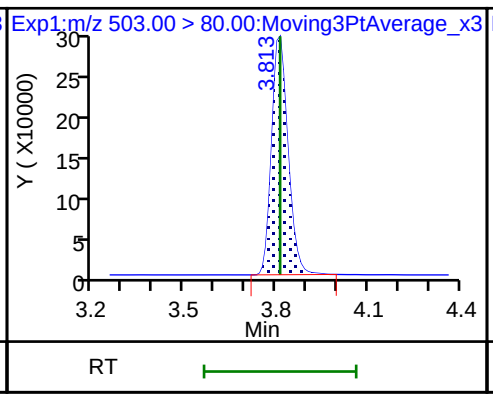
17 Perfluorooctanesulfonic acid (M)



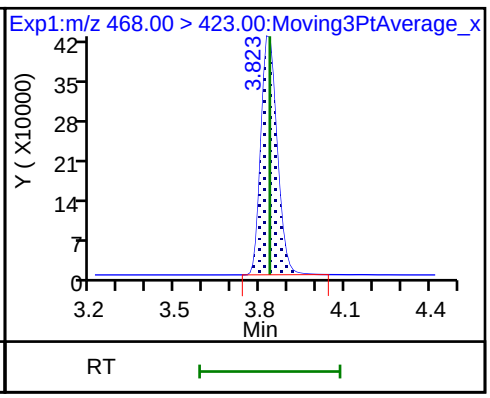
17 Perfluorooctanesulfonic acid (M)



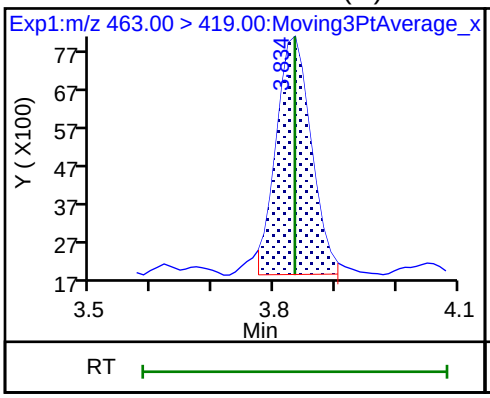
D 18 13C4 PFOS



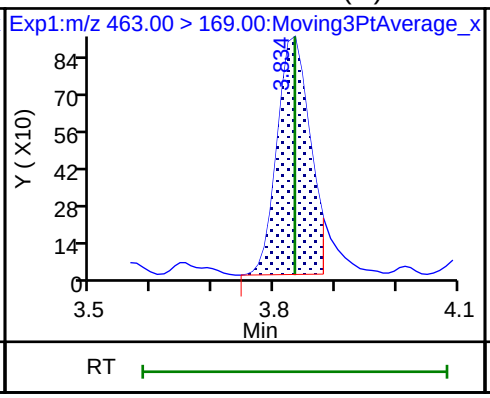
D 19 13C5 PFNA



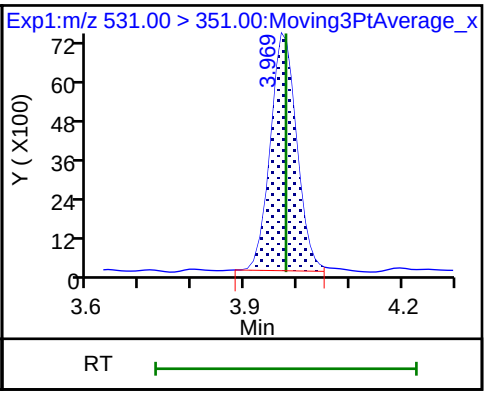
20 Perfluorononanoic acid (M)



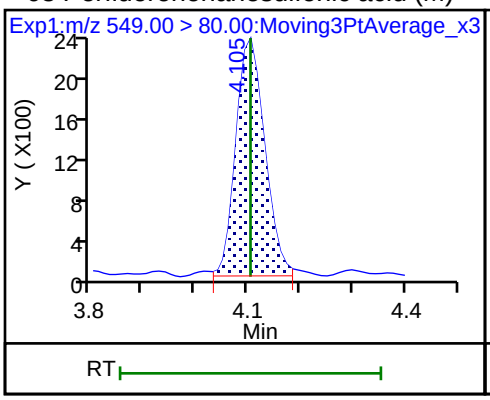
20 Perfluorononanoic acid (M)



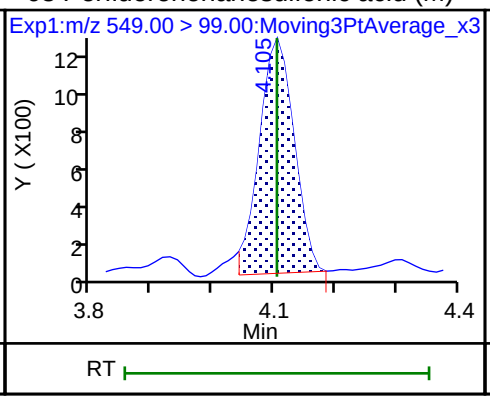
69 9-Chlorohexadecafluoro-3-oxanona (M)



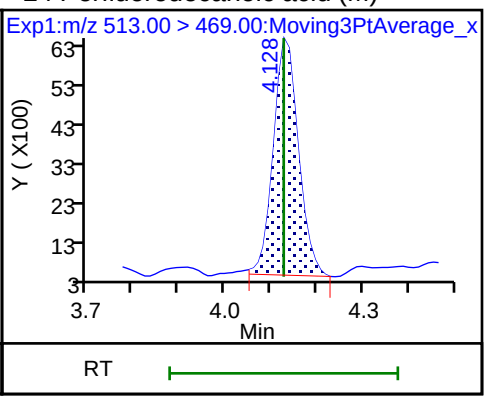
68 Perfluorononanesulfonic acid (M)



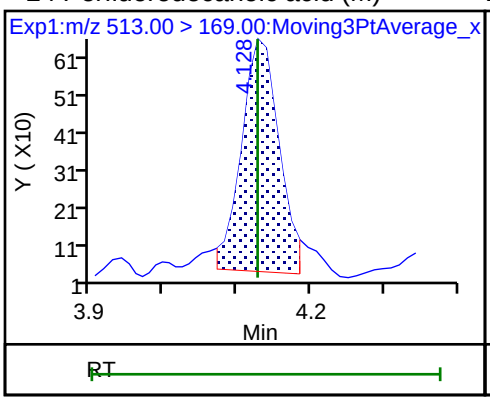
68 Perfluorononanesulfonic acid (M)



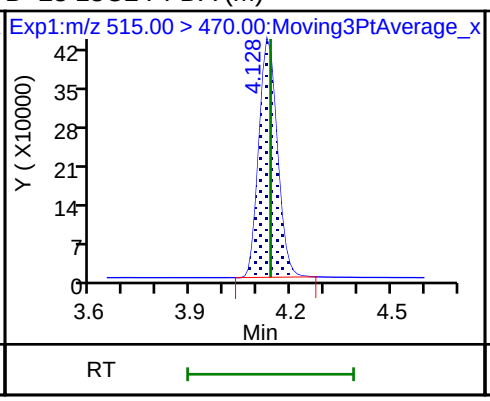
24 Perfluorodecanoic acid (M)



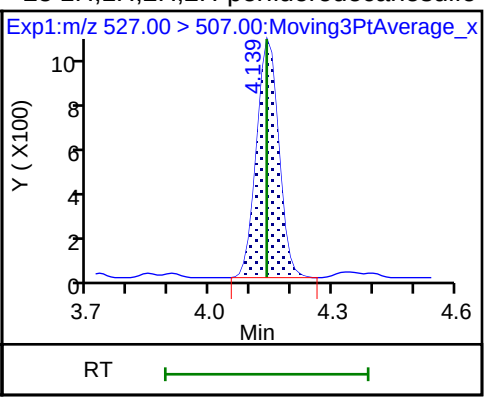
24 Perfluorodecanoic acid (M)



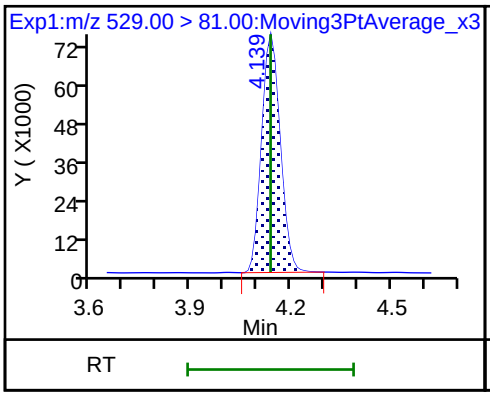
D 23 13C2 PFDA (M)



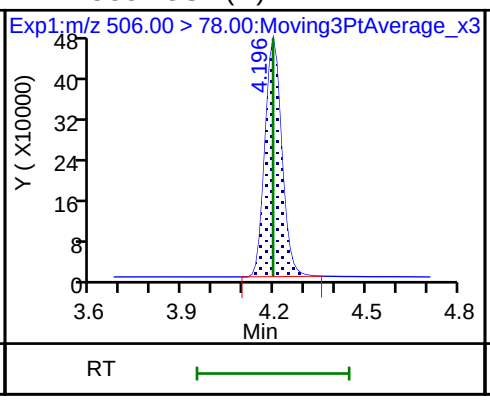
25 1H,1H,2H,2H-perfluorodecanesulfo



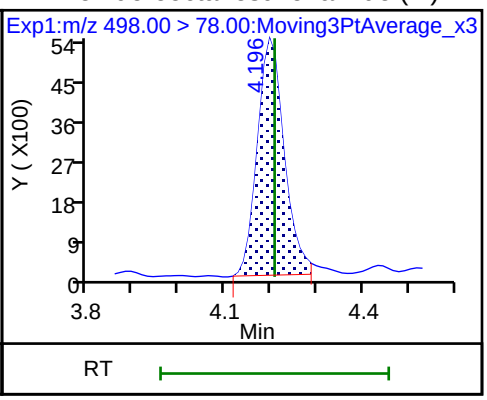
D 26 M2-8:2 FTS



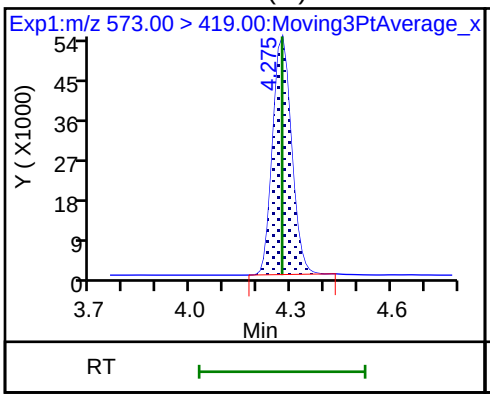
D 21 13C8 FOSA (M)



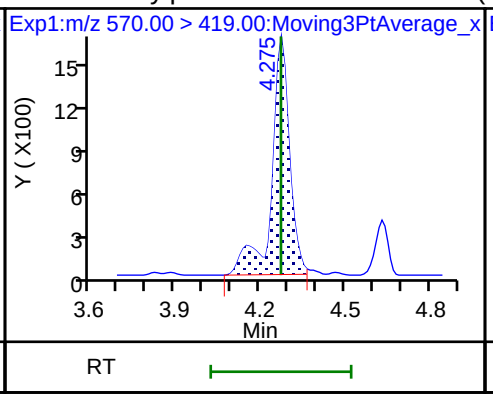
22 Perfluorooctanesulfonamide (M)



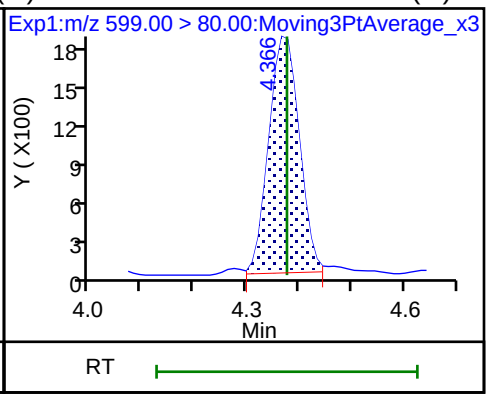
D 27 d3-NMeFOSAA (M)



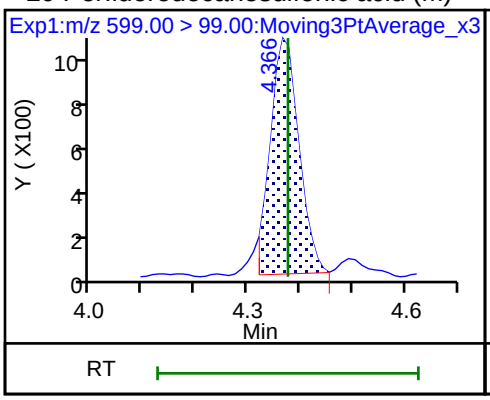
28 N-methylperfluorooctanesulfonami (M)



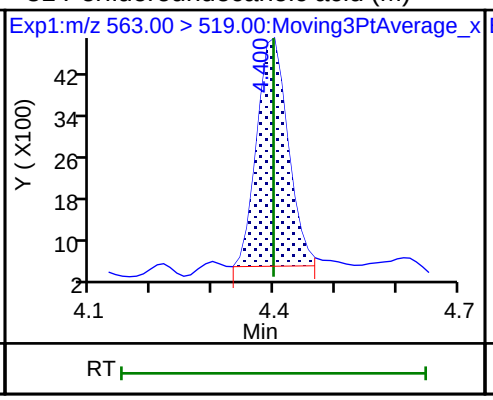
29 Perfluorodecanesulfonic acid (M)



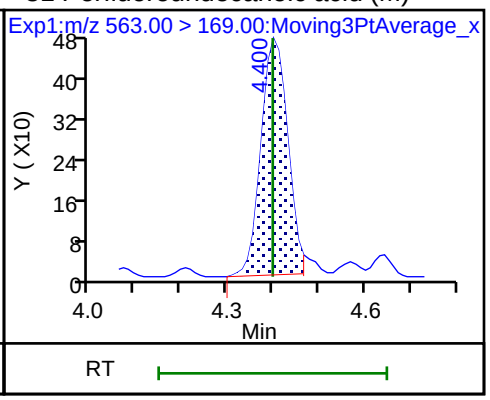
29 Perfluorodecanesulfonic acid (M)



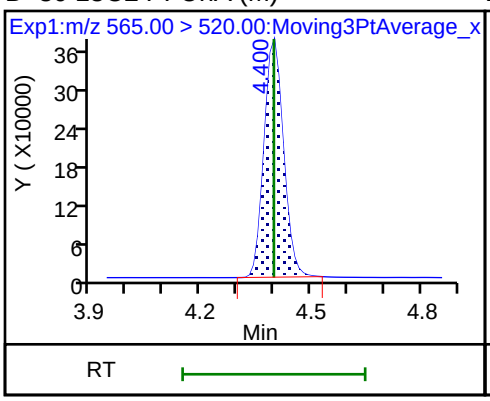
31 Perfluoroundecanoic acid (M)



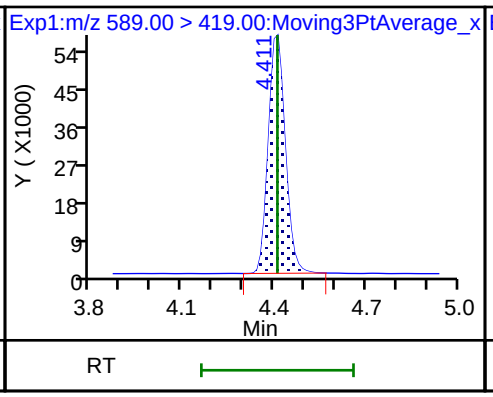
31 Perfluoroundecanoic acid (M)



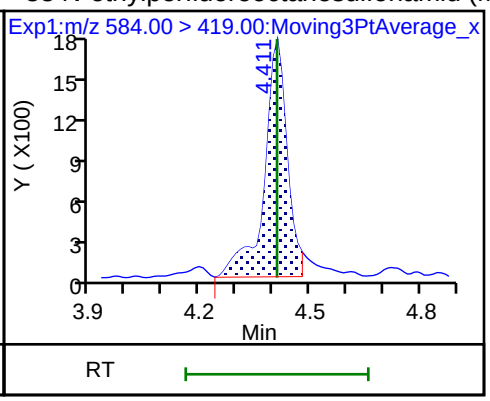
D 30 13C2 PFUnA (M)



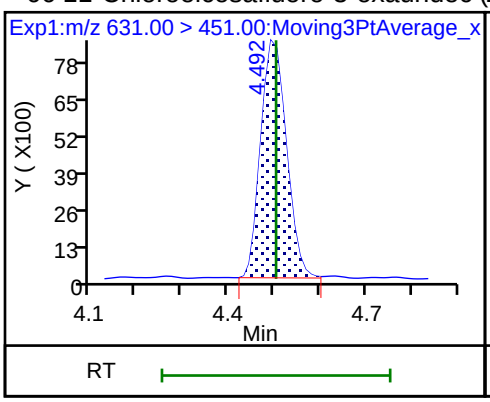
D 32 d5-NEtFOSAA



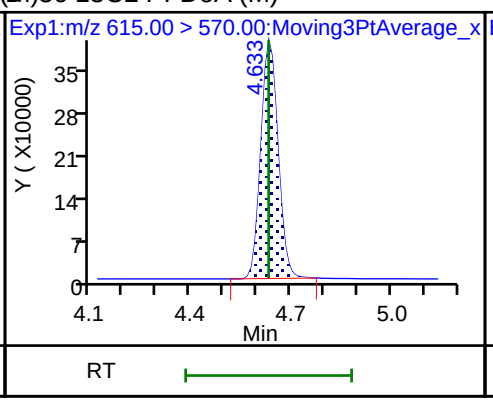
33 N-ethylperfluorooctanesulfonamid (M)



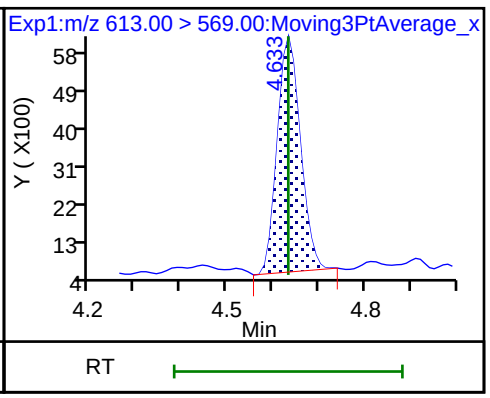
66 11-Chloroeicosafluoro-3-oxaundec (M)



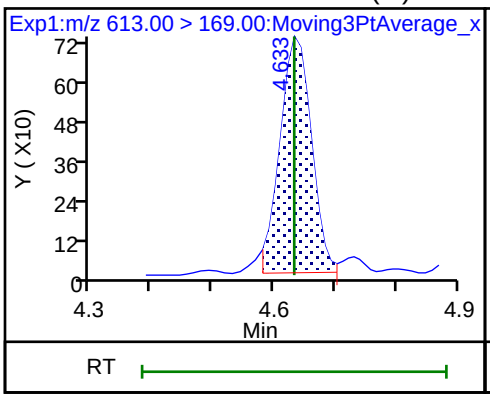
D 36 13C2 PFDoA (M)



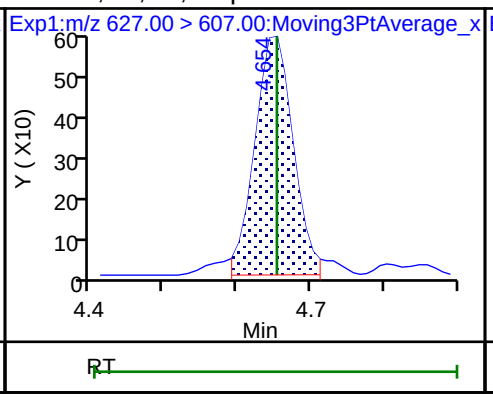
37 Perfluorododecanoic acid



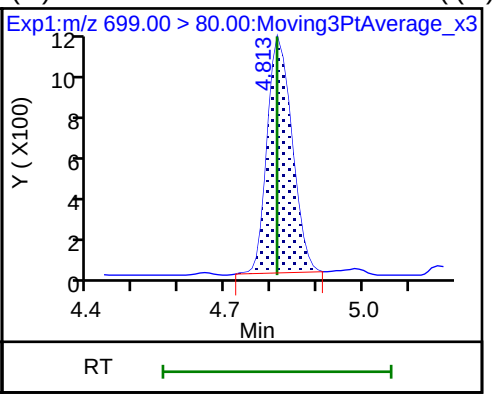
37 Perfluorododecanoic acid (M)



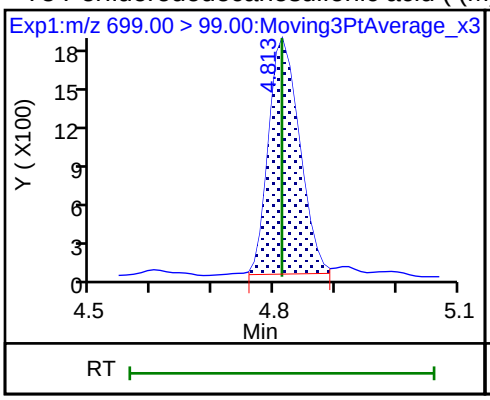
74 1H,1H,2H,2H-perfluorododecanesul (M)



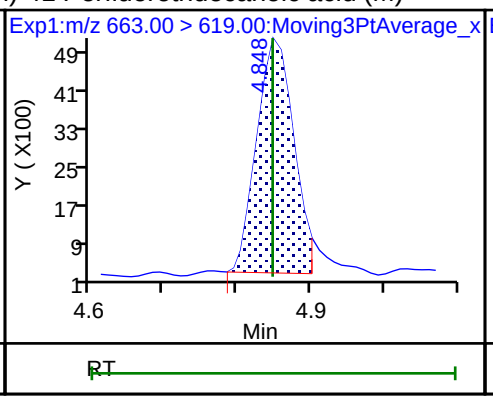
75 Perfluorododecanesulfonic acid ((M)



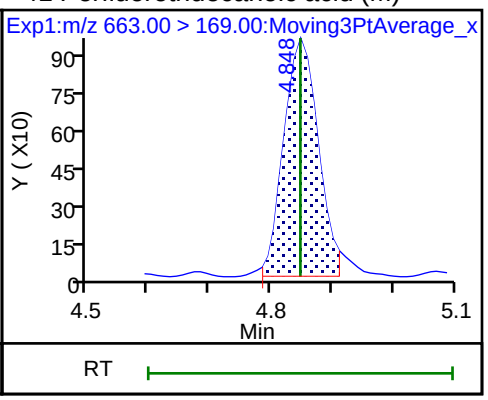
75 Perfluorododecanesulfonic acid ((M)



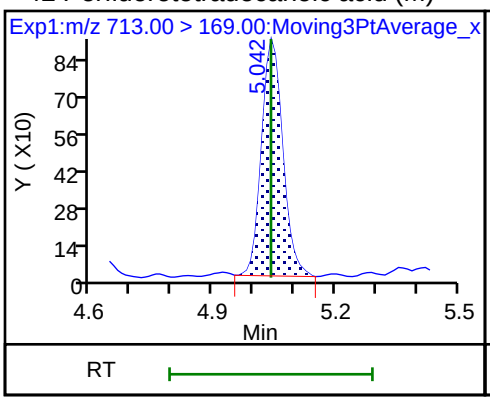
41 Perfluorotridecanoic acid (M)



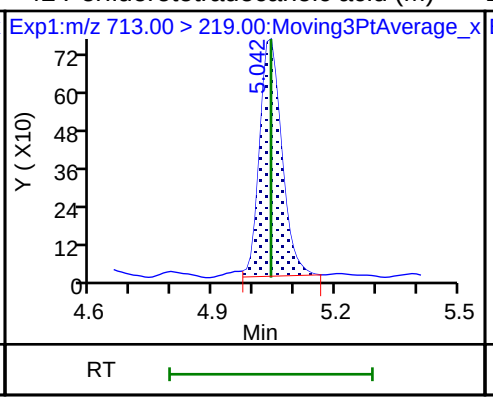
41 Perfluorotridecanoic acid (M)



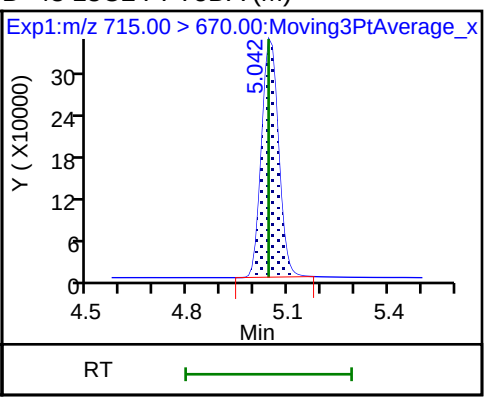
42 Perfluorotetradecanoic acid (M)



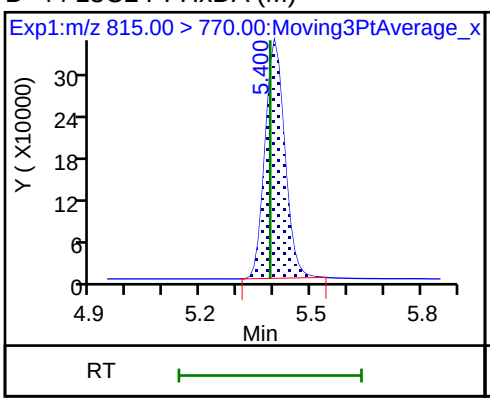
42 Perfluorotetradecanoic acid (M)



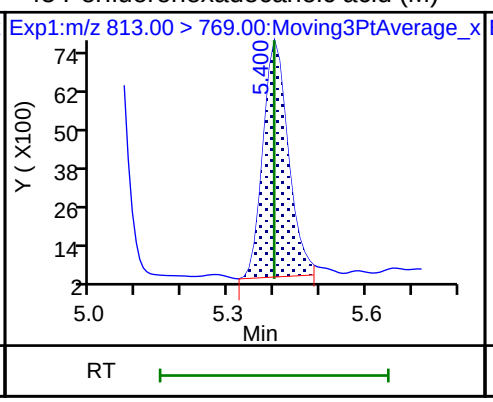
D 43 13C2 PFTeDA (M)



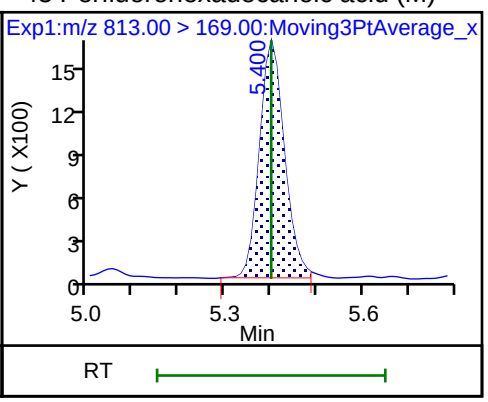
D 44 13C2 PFHxDA (M)



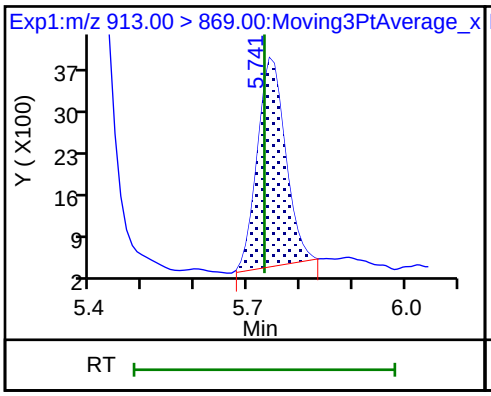
45 Perfluorohexadecanoic acid (M)



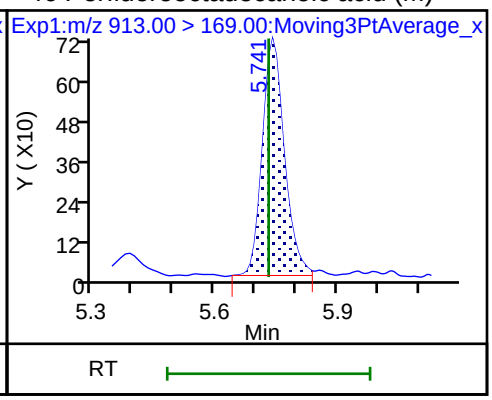
45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid (M)



Manual Integration/User Assign Peak Report

Eurofins Burlington

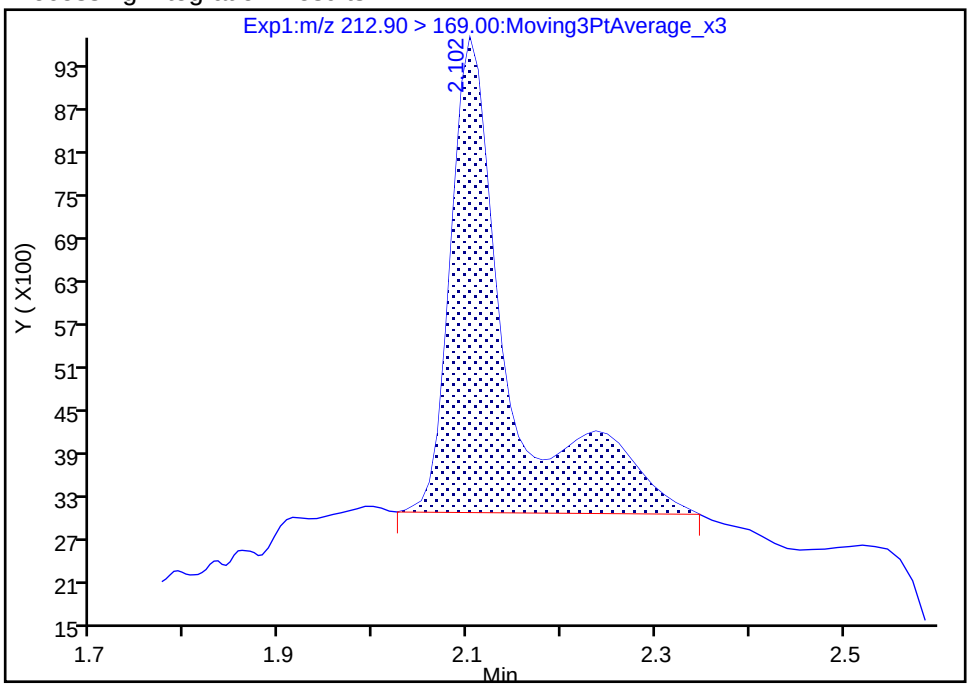
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

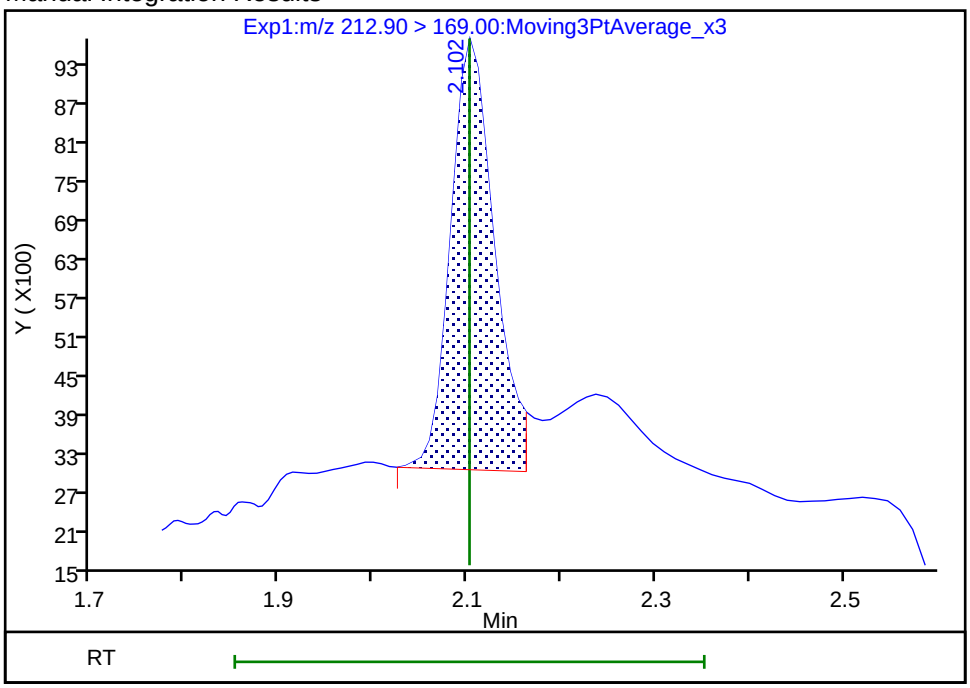
Processing Integration Results

RT: 2.10
Area: 28686
Amount: 0.021254
Amount Units: ng/ml



Manual Integration Results

RT: 2.10
Area: 21318
Amount: 0.015861
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:08:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

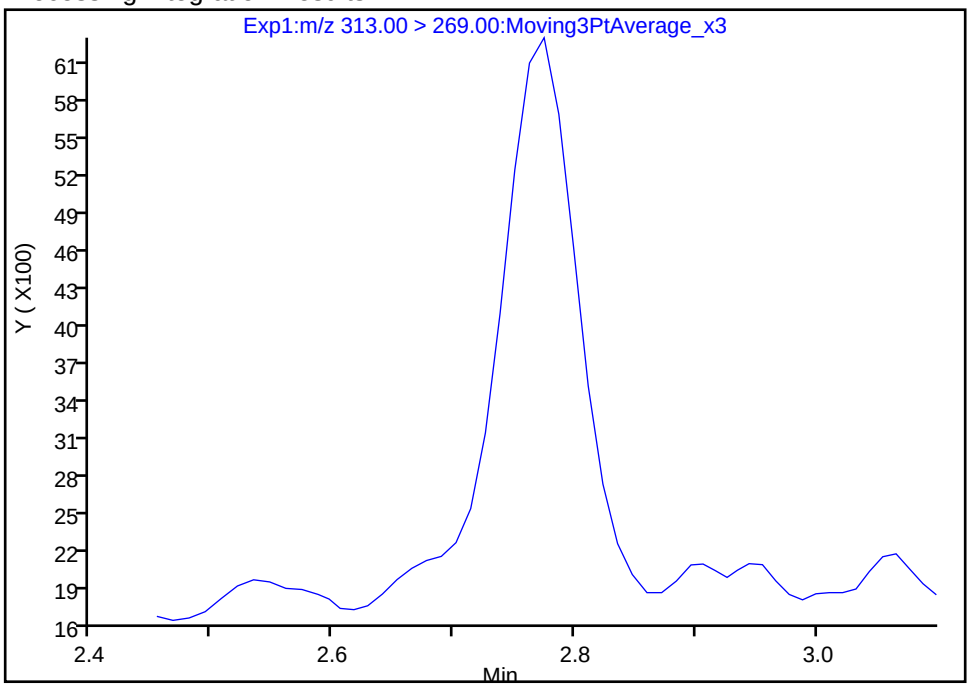
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

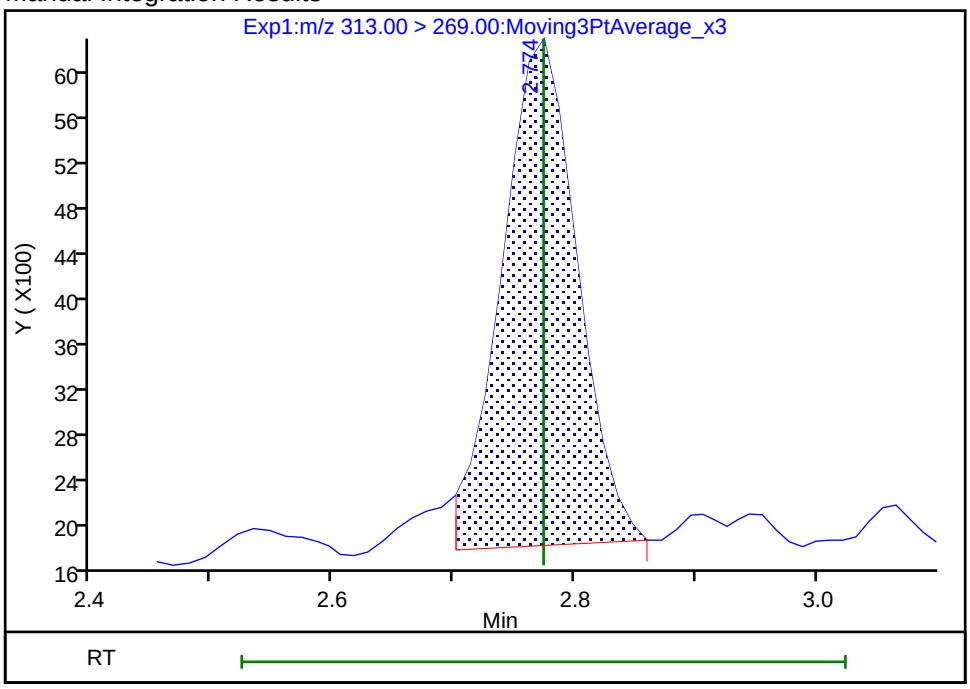
Not Detected
Expected RT: 2.77

Processing Integration Results



Manual Integration Results

RT: 2.77
Area: 19303
Amount: 0.016143
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:09:59
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Burlington

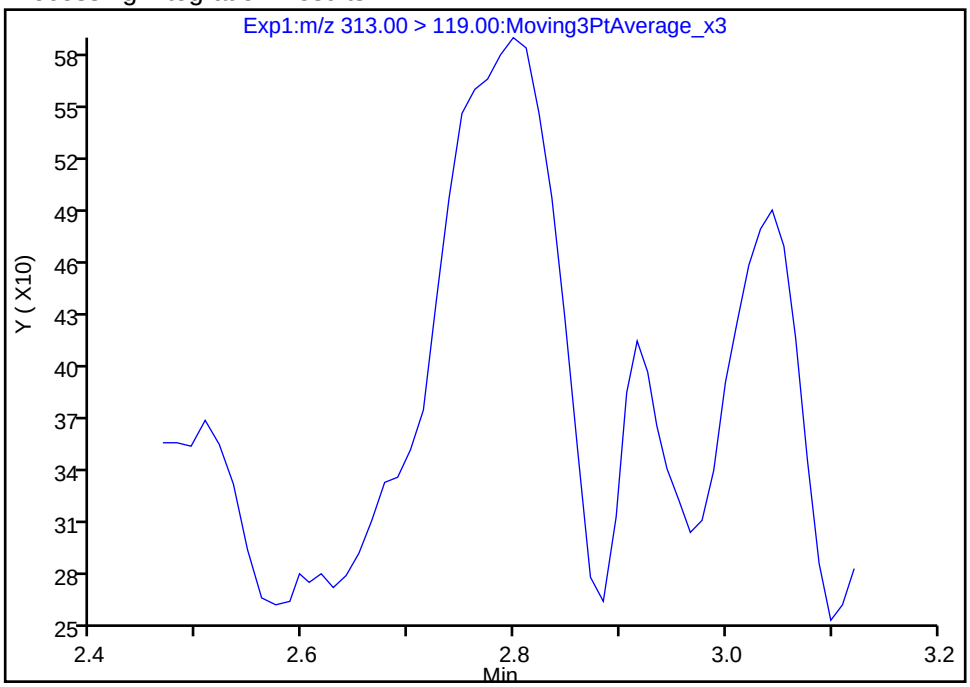
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

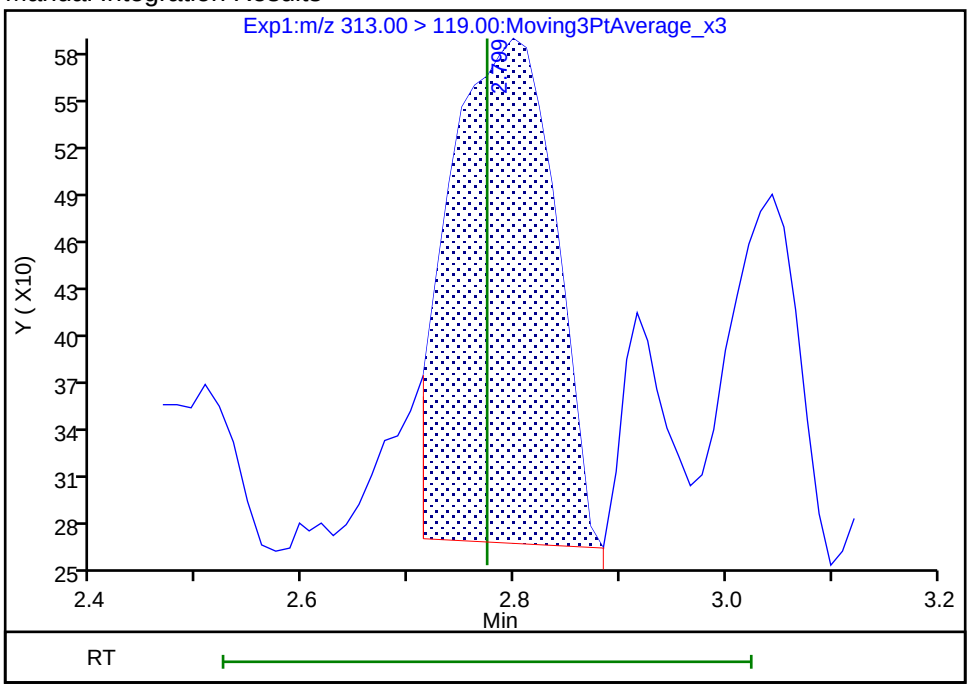
Not Detected
Expected RT: 2.77

Processing Integration Results



Manual Integration Results

RT: 2.80
Area: 2228
Amount: 0.016143
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:10:02
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Burlington

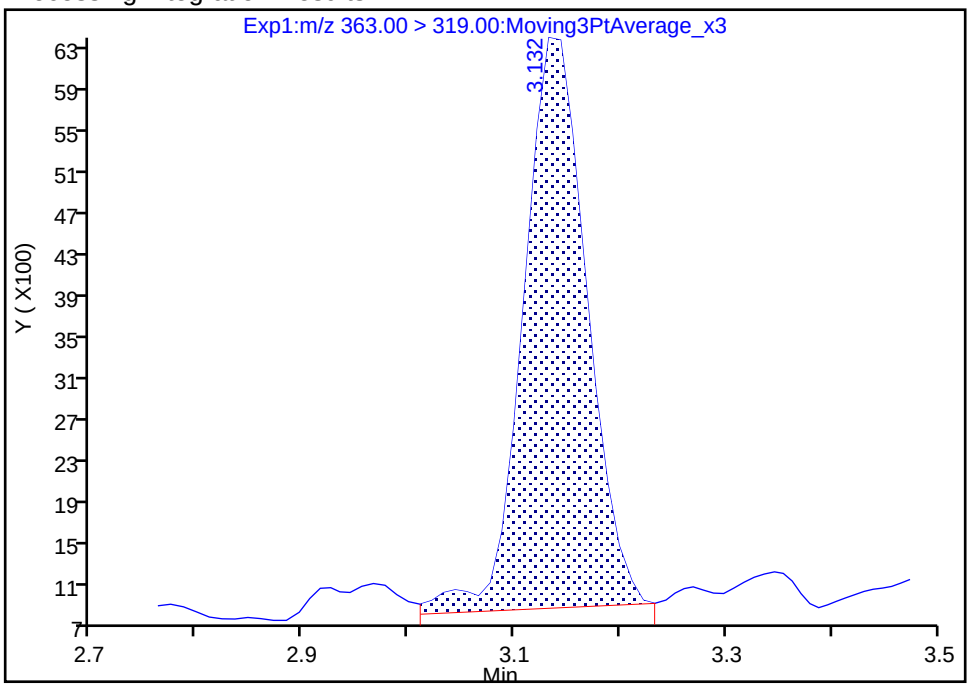
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

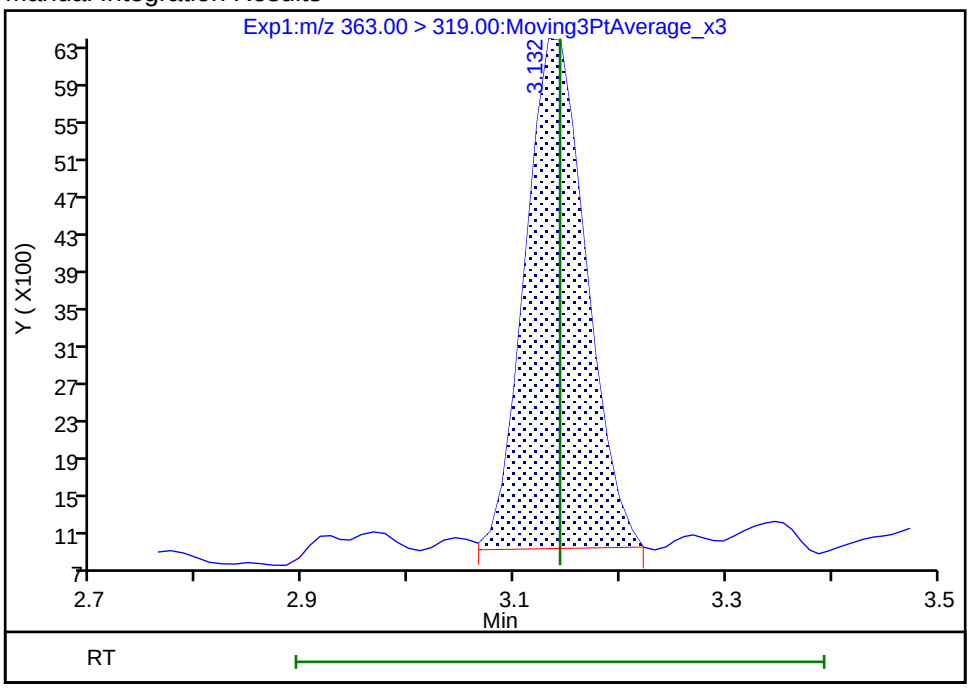
Processing Integration Results

RT: 3.13
Area: 22900
Amount: 0.017797
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 21786
Amount: 0.016931
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:11:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

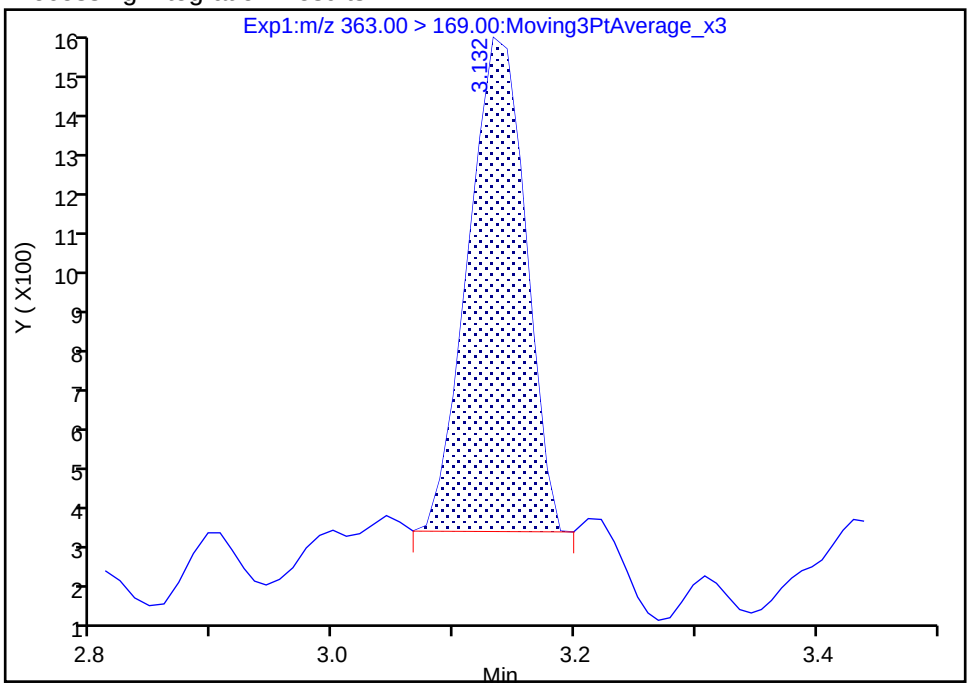
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d				
Injection Date:	05-May-2022 16:02:38	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

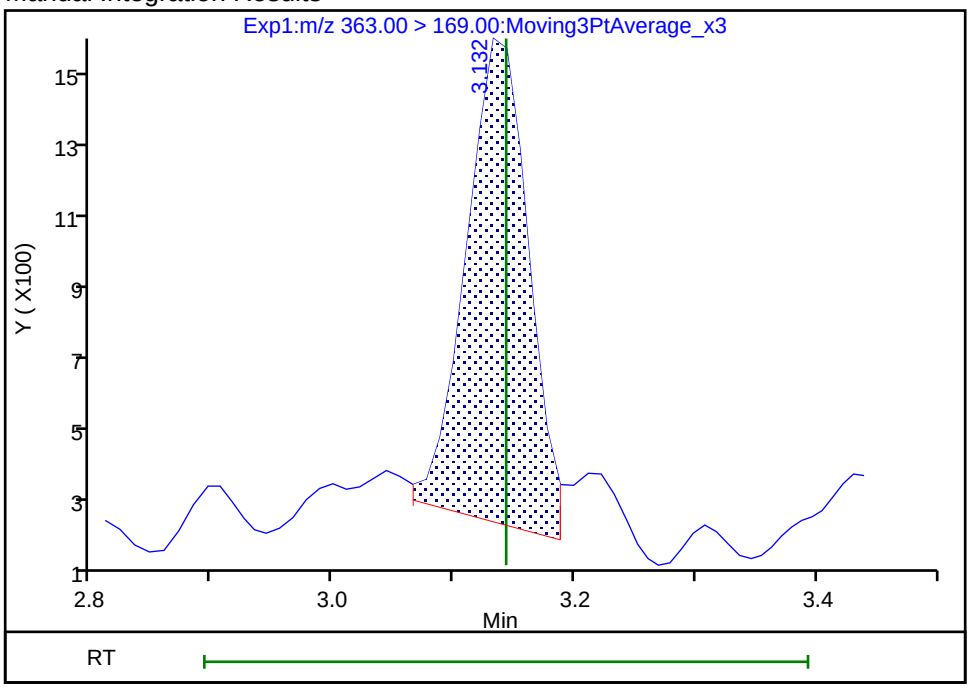
Processing Integration Results

RT: 3.13
Area: 3792
Amount: 0.017797
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 4450
Amount: 0.016931
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:11:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

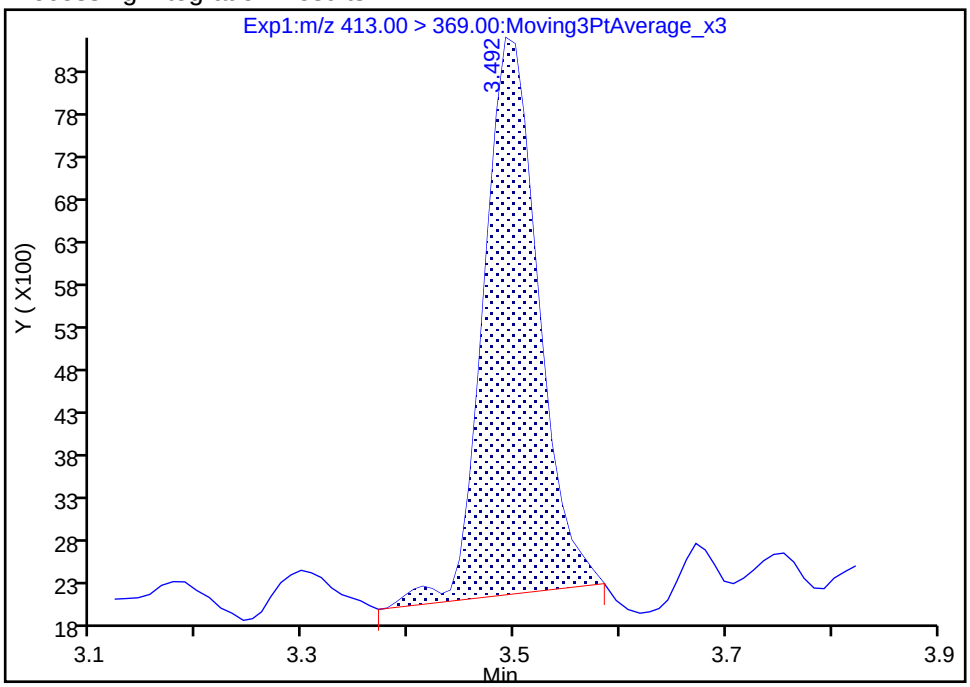
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

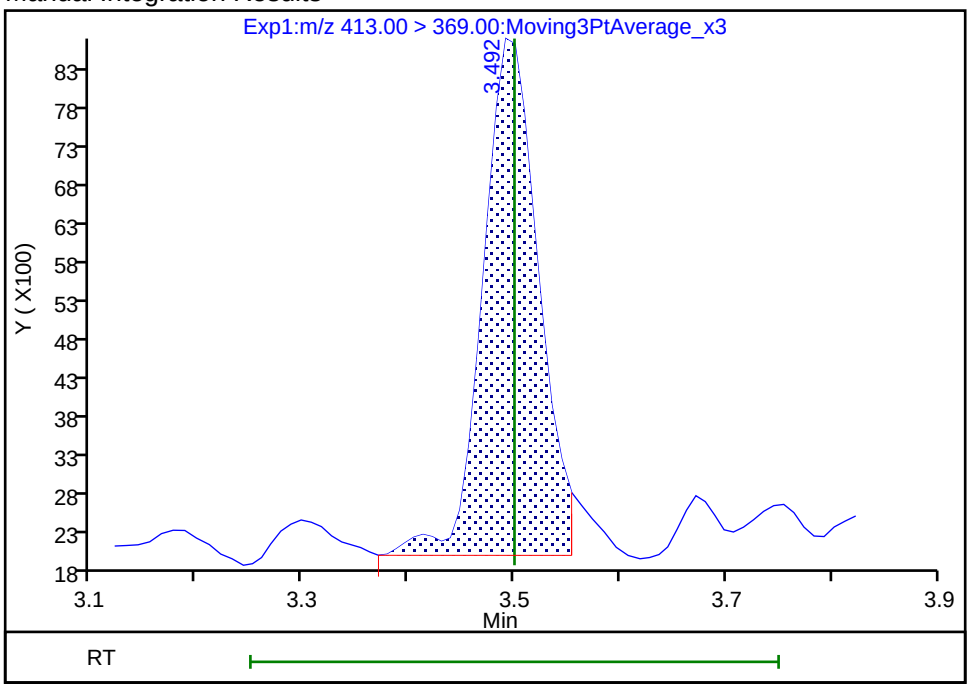
Processing Integration Results

RT: 3.49
Area: 23496
Amount: 0.016446
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 24419
Amount: 0.017092
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:12:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

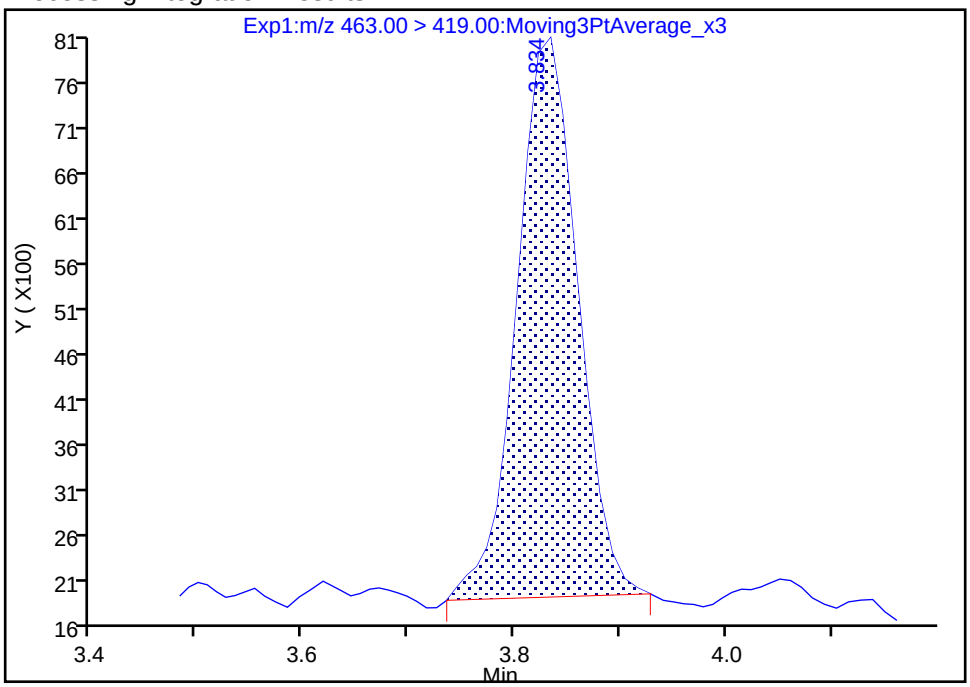
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

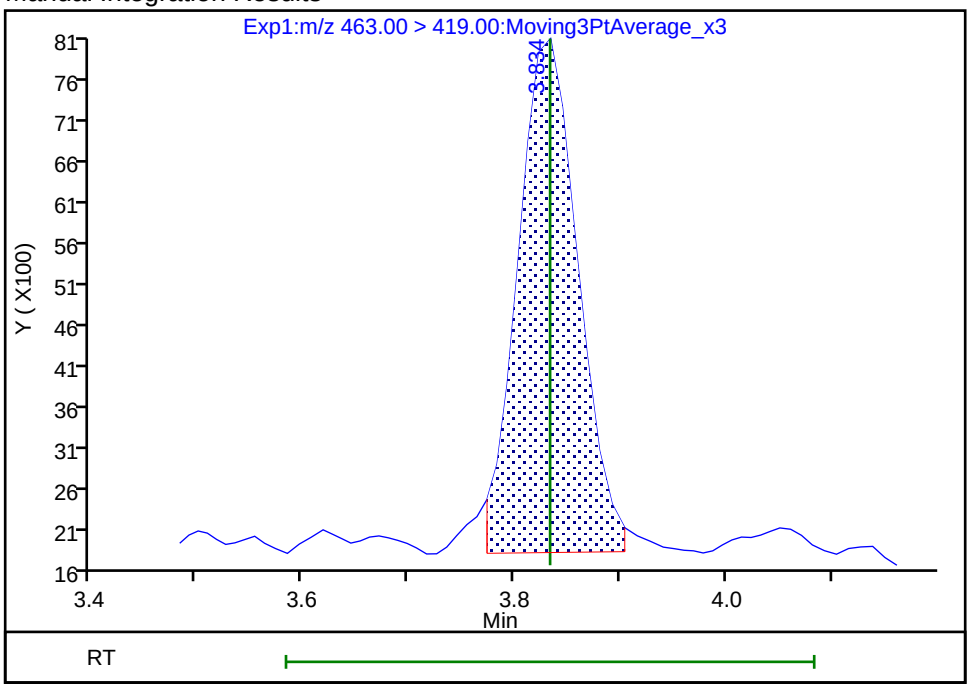
Processing Integration Results

RT: 3.83
Area: 24567
Amount: 0.018758
Amount Units: ng/ml



Manual Integration Results

RT: 3.83
Area: 24662
Amount: 0.018830
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:13:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

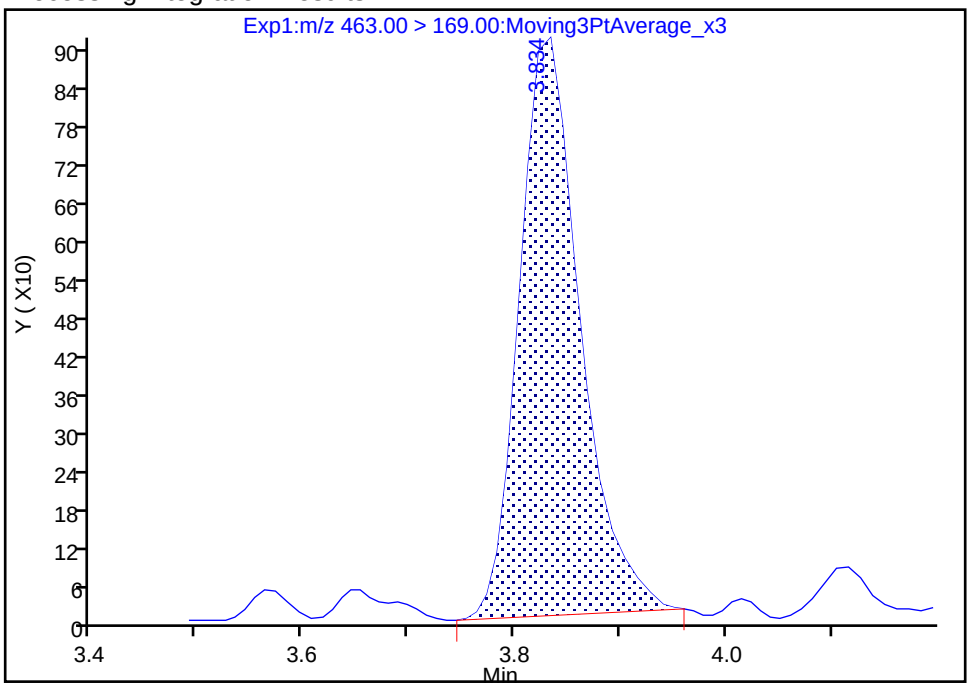
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

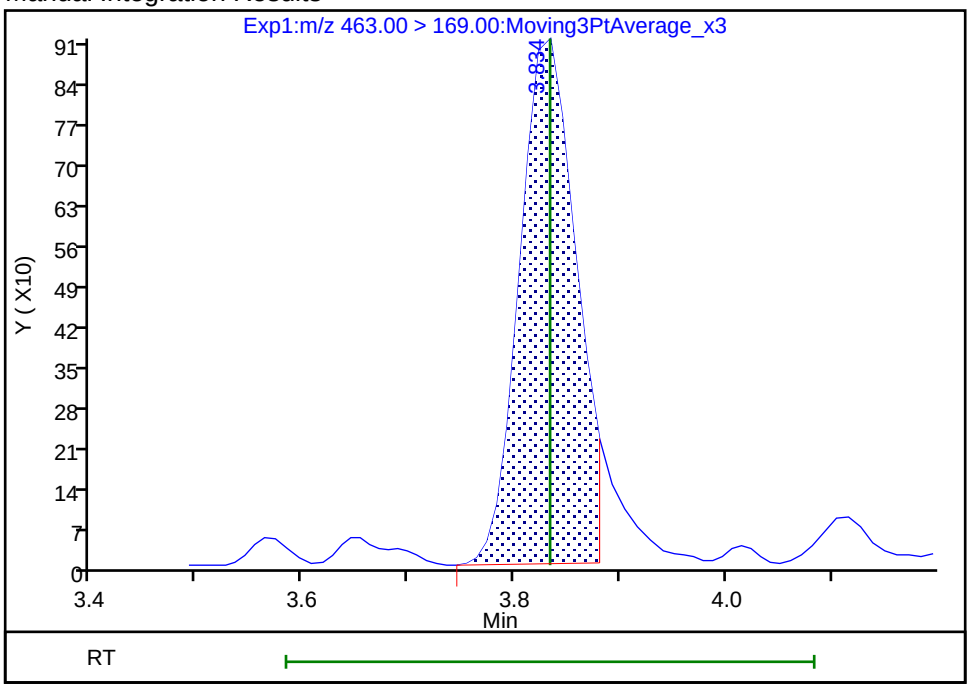
Processing Integration Results

RT: 3.83
Area: 3646
Amount: 0.018758
Amount Units: ng/ml



Manual Integration Results

RT: 3.83
Area: 3381
Amount: 0.018830
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:14:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

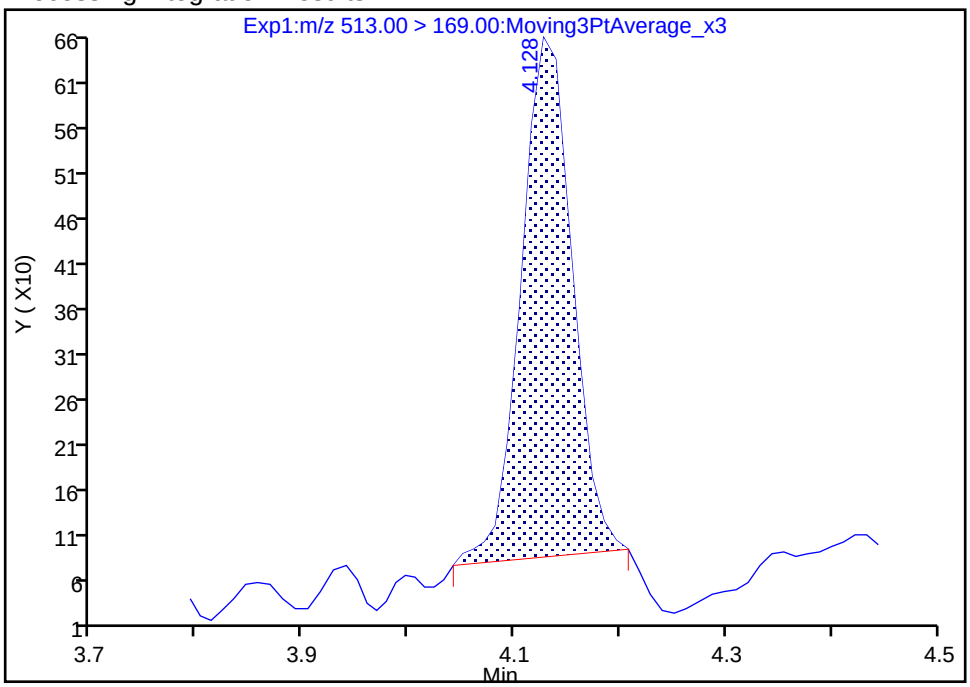
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

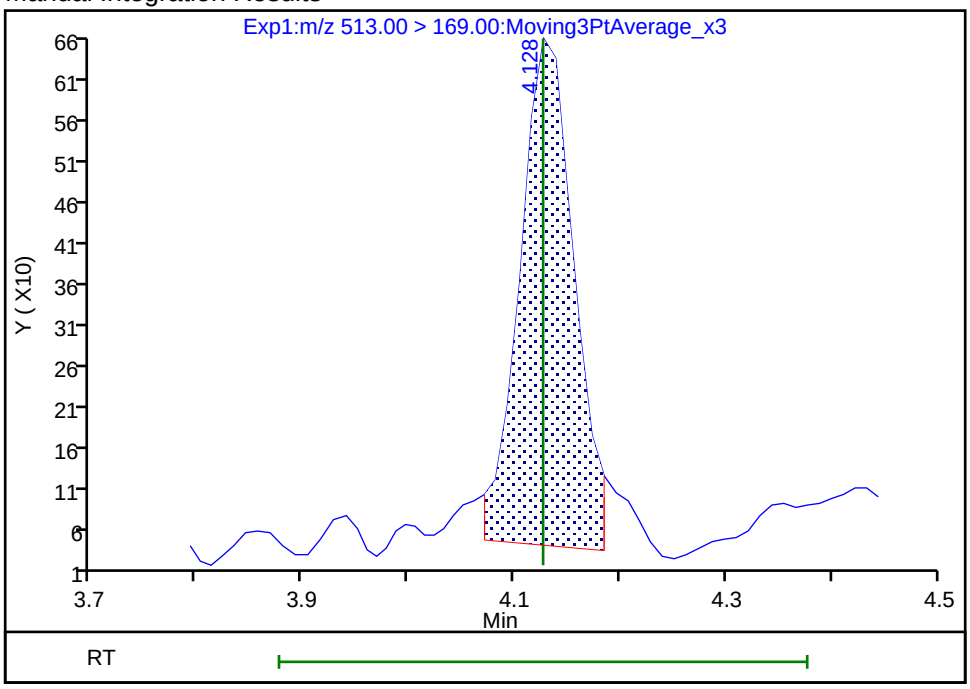
Processing Integration Results

RT: 4.13
Area: 1937
Amount: 0.015953
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 2205
Amount: 0.016255
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:15:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

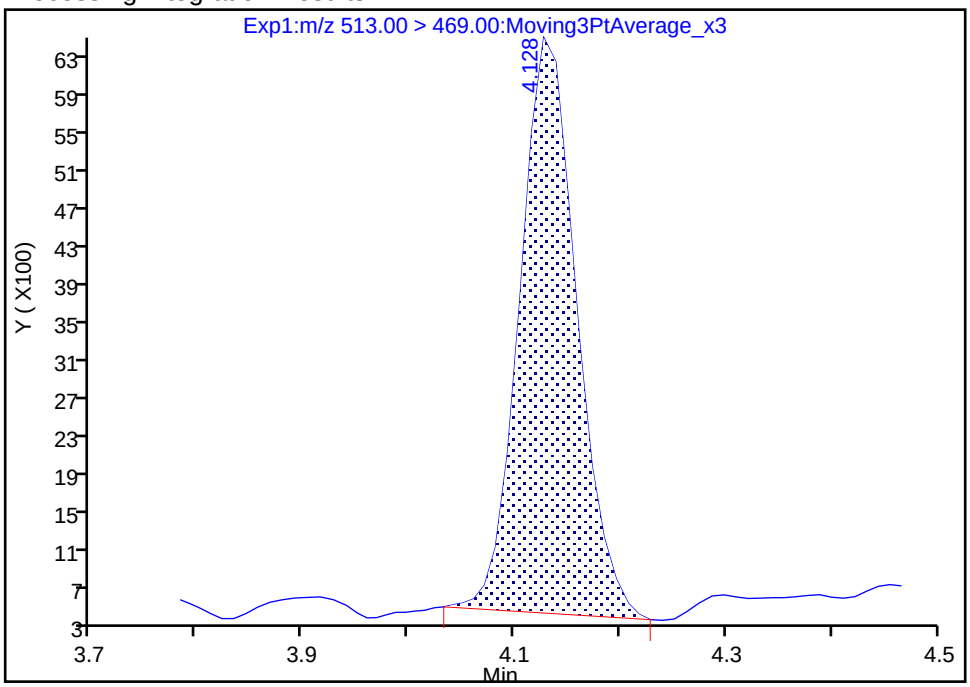
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

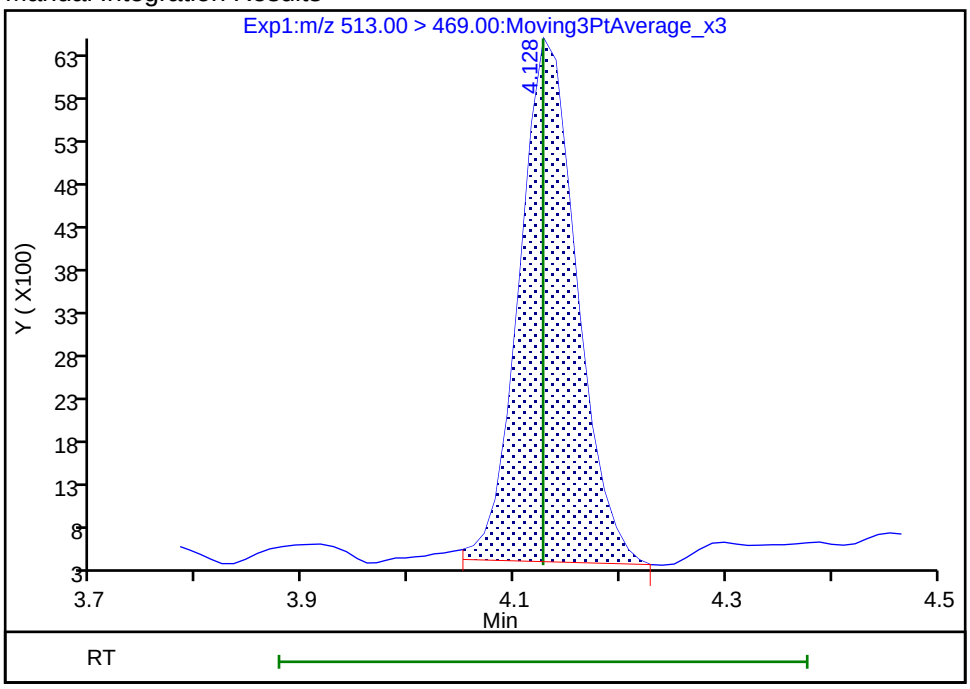
Processing Integration Results

RT: 4.13
Area: 22441
Amount: 0.015953
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 22738
Amount: 0.016255
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:15:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

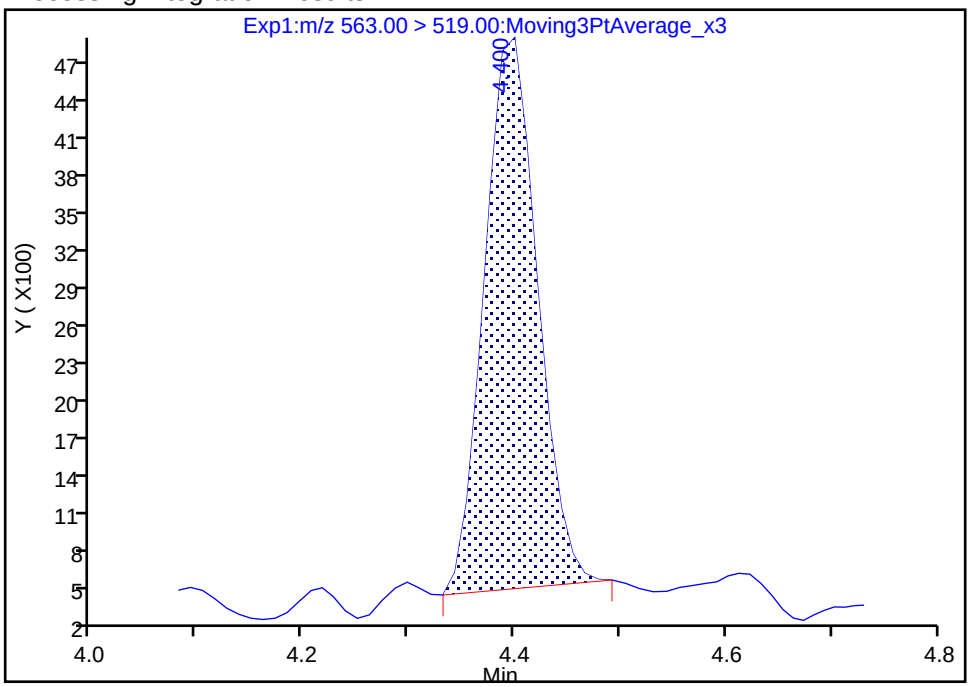
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

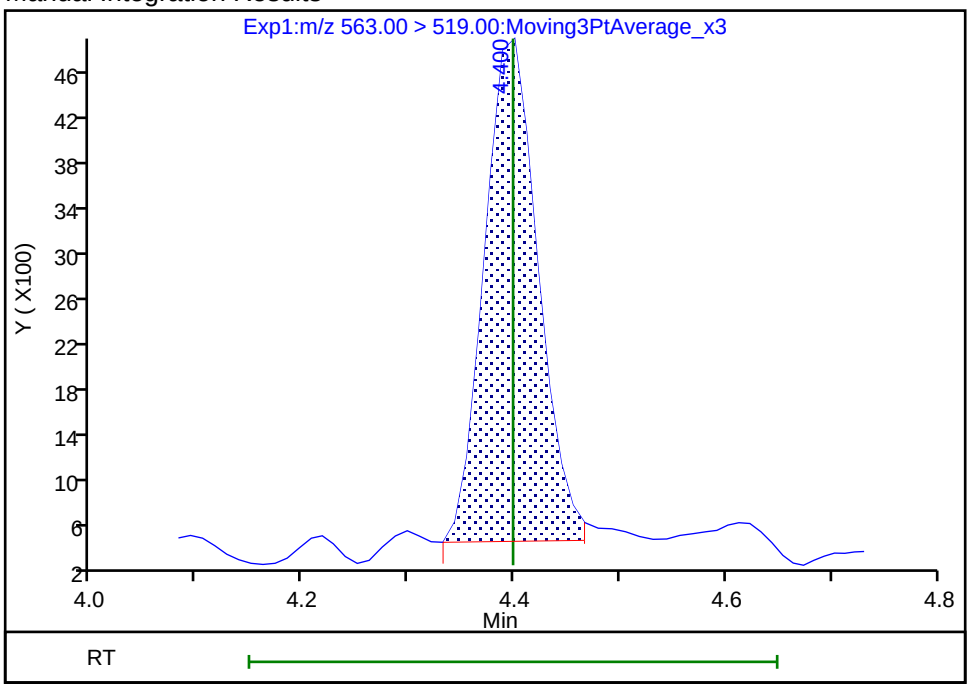
Processing Integration Results

RT: 4.40
Area: 15165
Amount: 0.013235
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 15458
Amount: 0.013597
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:16:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

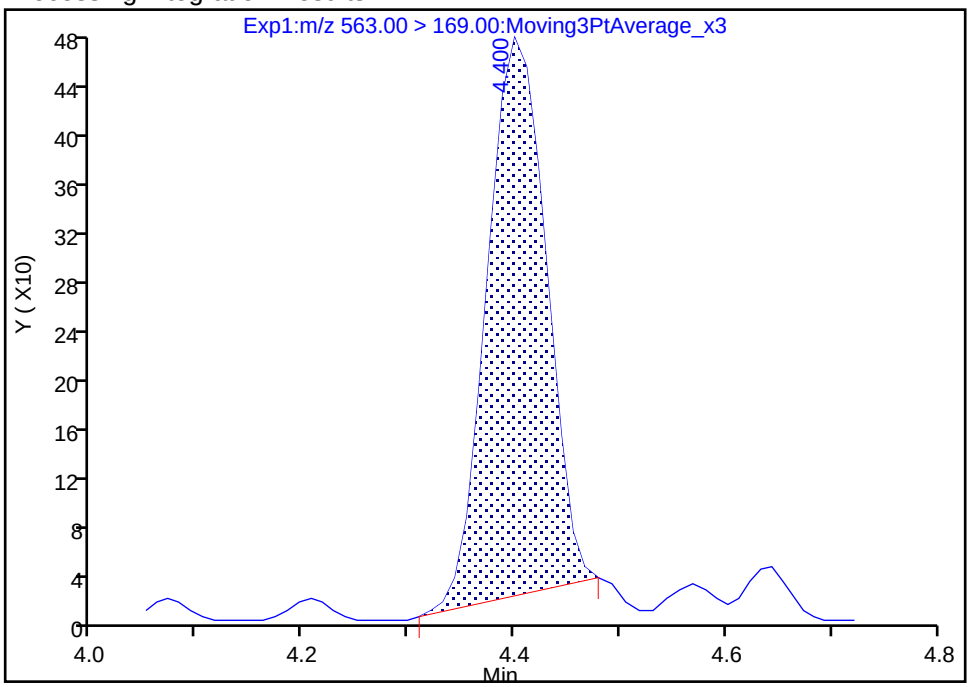
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

Processing Integration Results

RT: 4.40
Area: 1780
Amount: 0.013235
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 1914
Amount: 0.013597
Amount Units: ng/ml

Reviewer: deannd, 06-May-2022 08:16:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

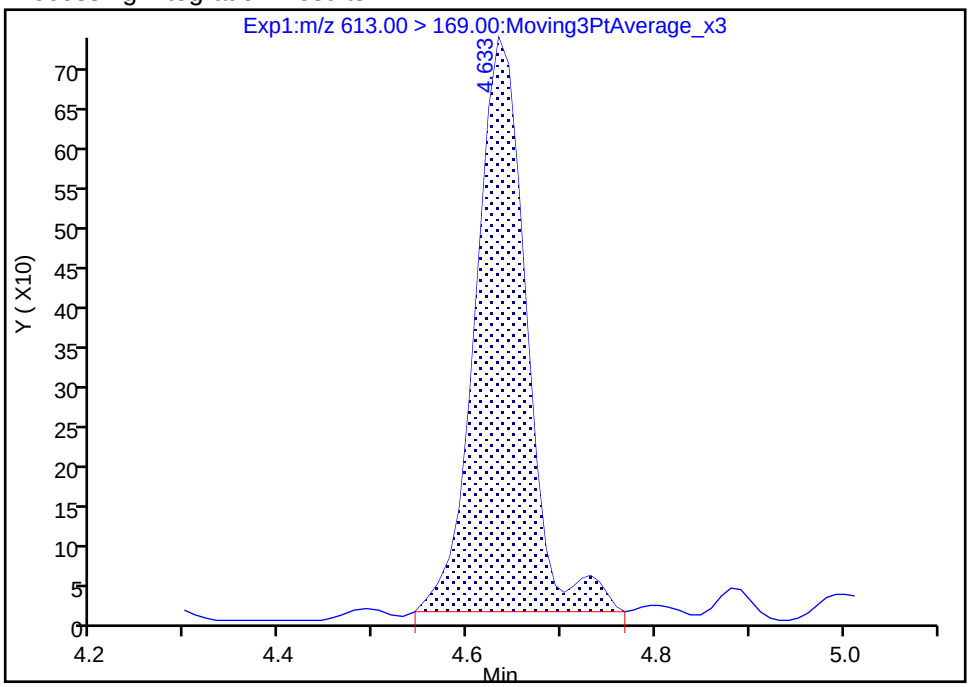
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d				
Injection Date:	05-May-2022 16:02:38	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

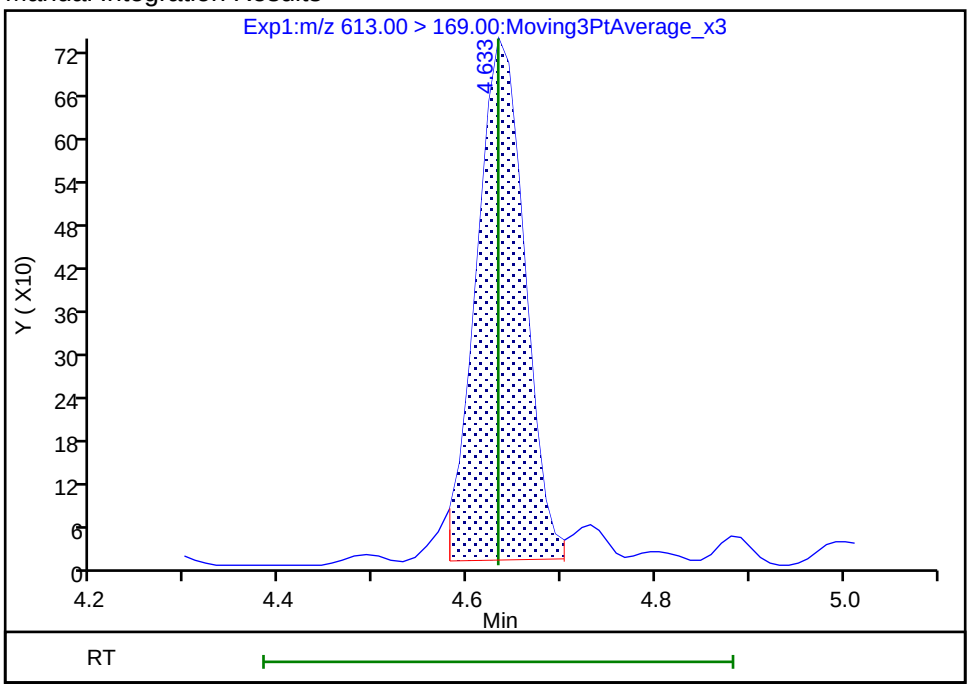
Processing Integration Results

RT: 4.63
Area: 2747
Amount: 0.017153
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 2602
Amount: 0.017153
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:17:34

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

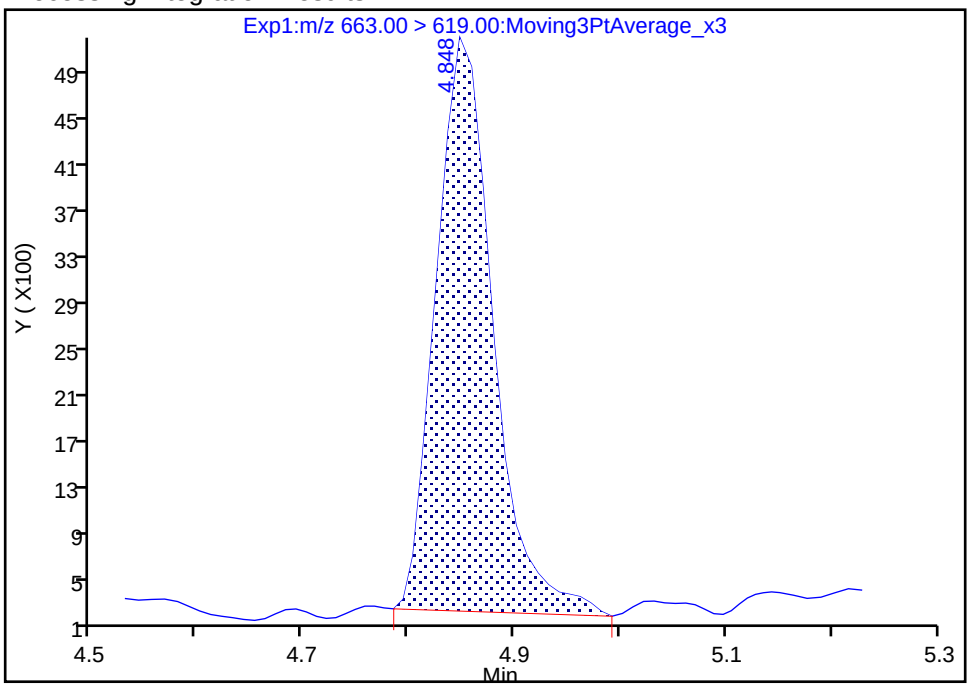
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

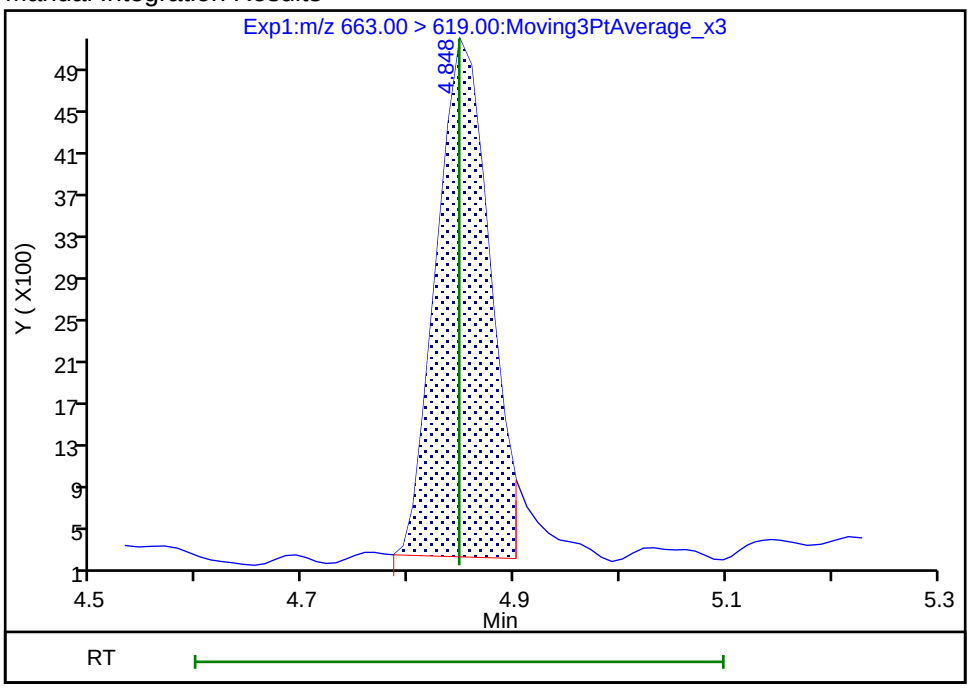
Processing Integration Results

RT: 4.85
Area: 18287
Amount: 0.018478
Amount Units: ng/ml



Manual Integration Results

RT: 4.85
Area: 16990
Amount: 0.017168
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:18:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

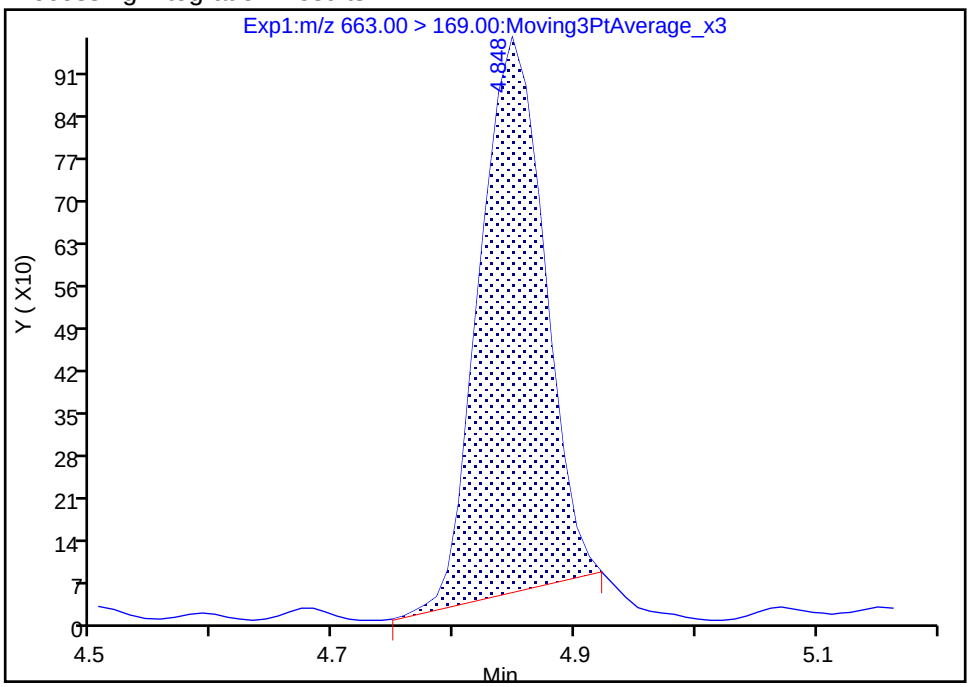
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d				
Injection Date:	05-May-2022 16:02:38	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

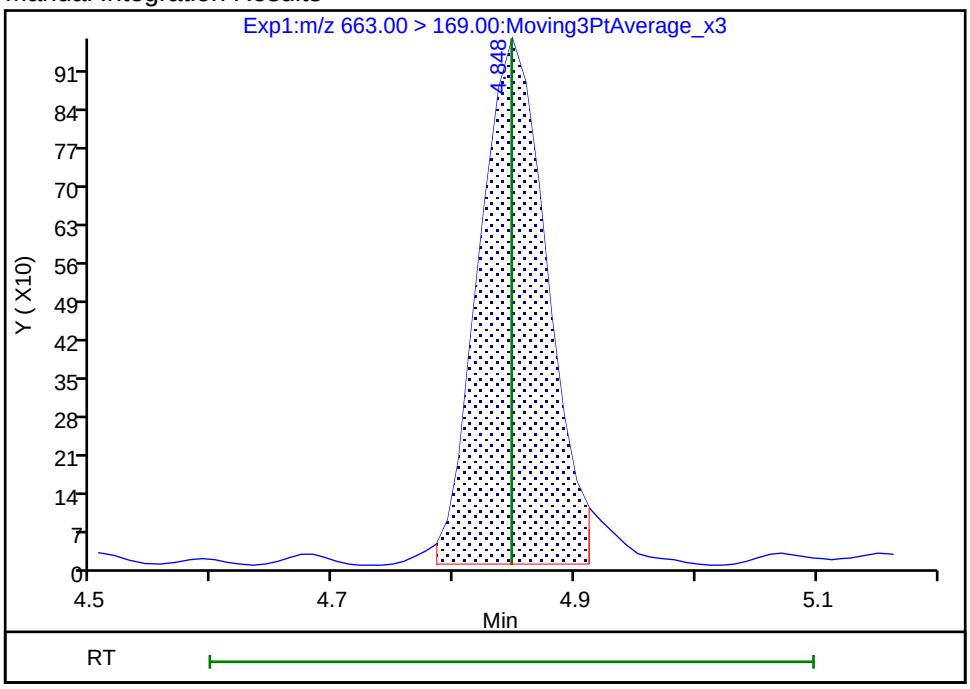
Processing Integration Results

RT: 4.85
Area: 3437
Amount: 0.018478
Amount Units: ng/ml



Manual Integration Results

RT: 4.85
Area: 3741
Amount: 0.017168
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:18:19

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

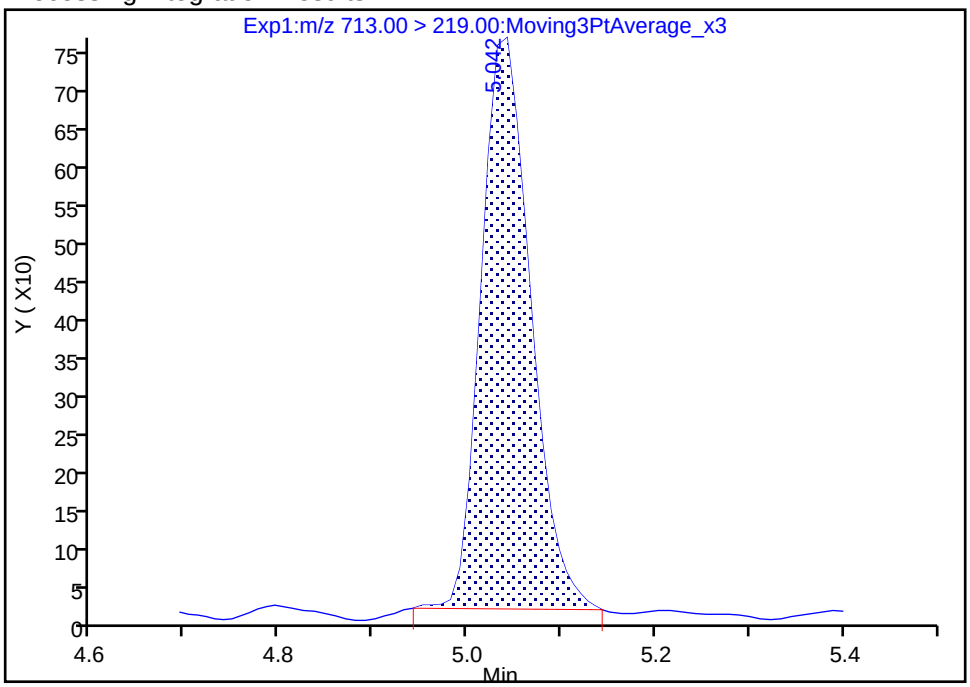
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

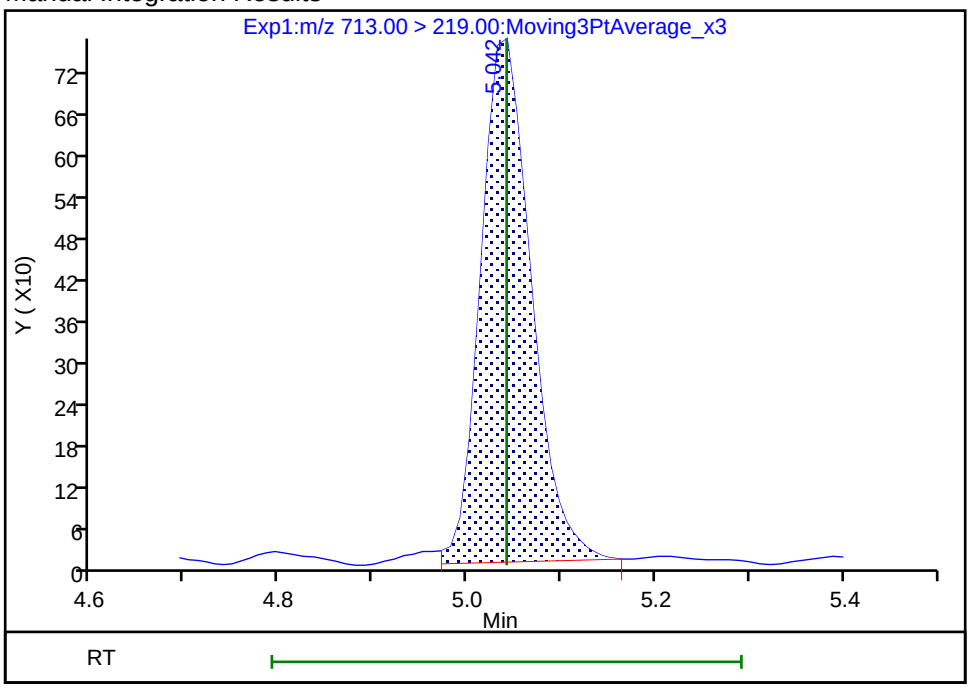
Processing Integration Results

RT: 5.04
Area: 2752
Amount: 0.020577
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 2848
Amount: 0.021957
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:18:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

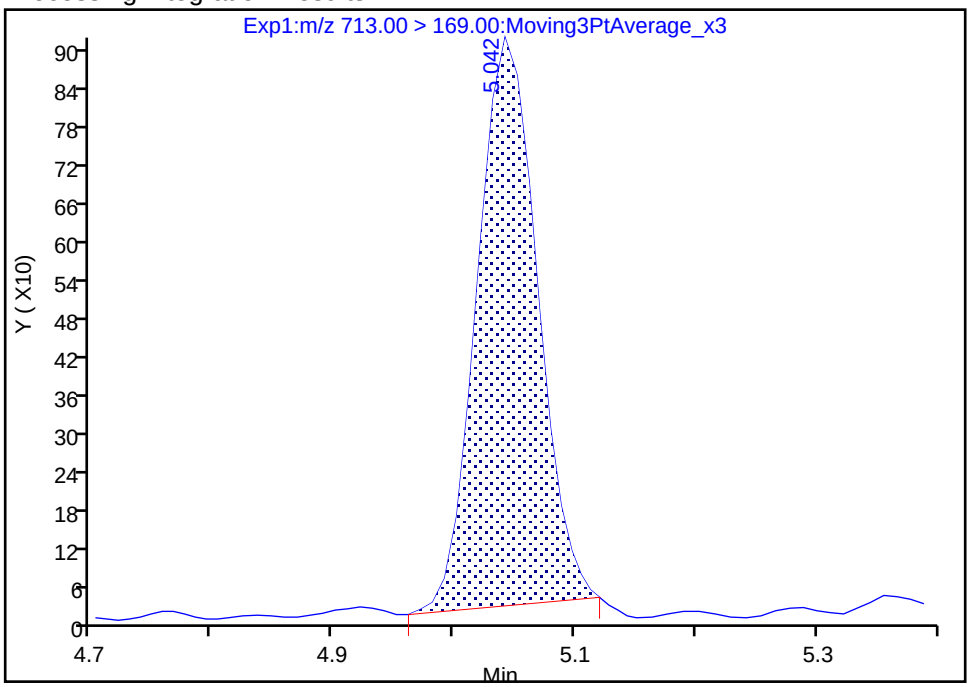
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d				
Injection Date:	05-May-2022 16:02:38	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

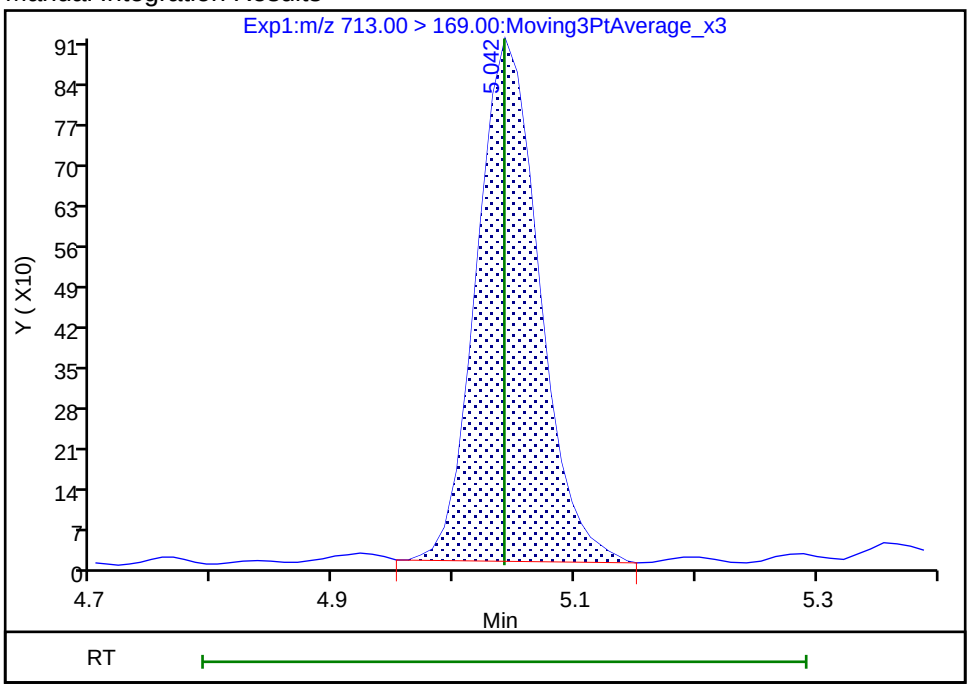
Processing Integration Results

RT: 5.04
Area: 3095
Amount: 0.020577
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 3267
Amount: 0.021957
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:18:45

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

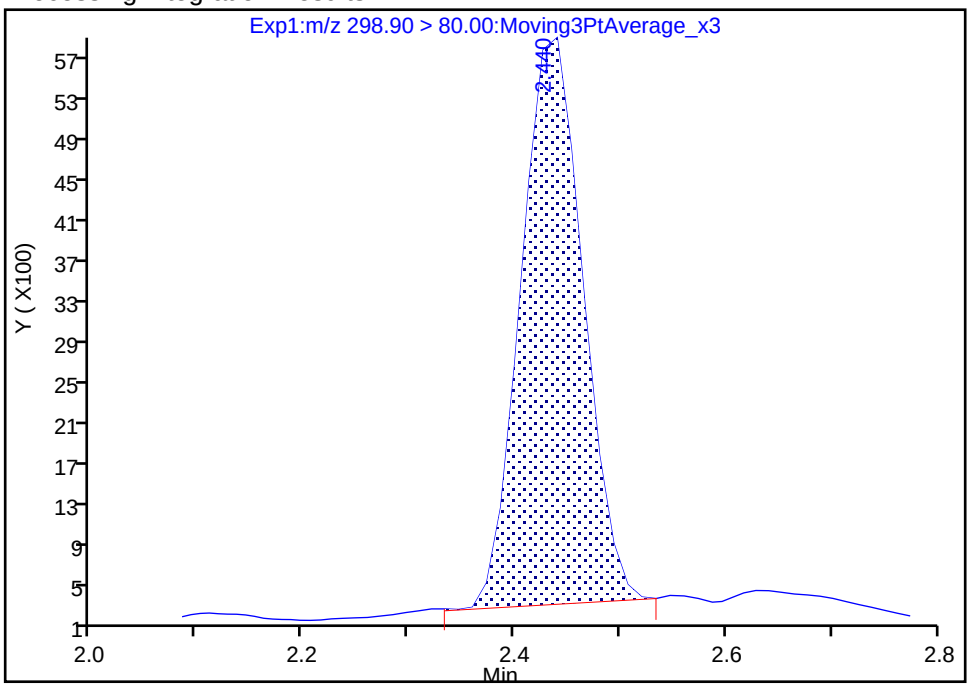
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

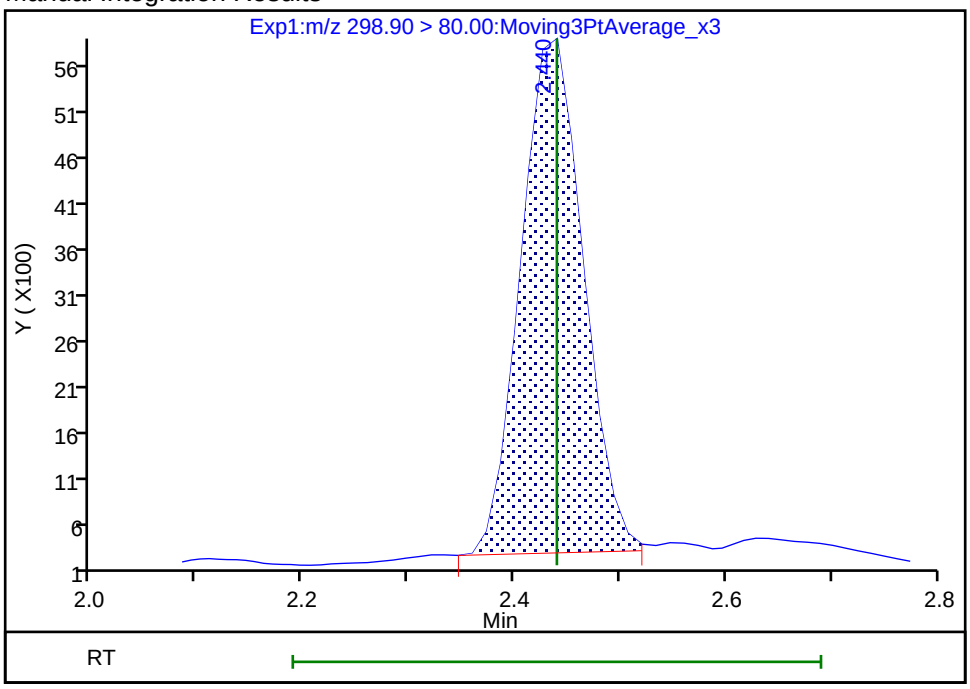
Processing Integration Results

RT: 2.44
Area: 23021
Amount: 0.013237
Amount Units: ng/ml



Manual Integration Results

RT: 2.44
Area: 23231
Amount: 0.013358
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:09:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

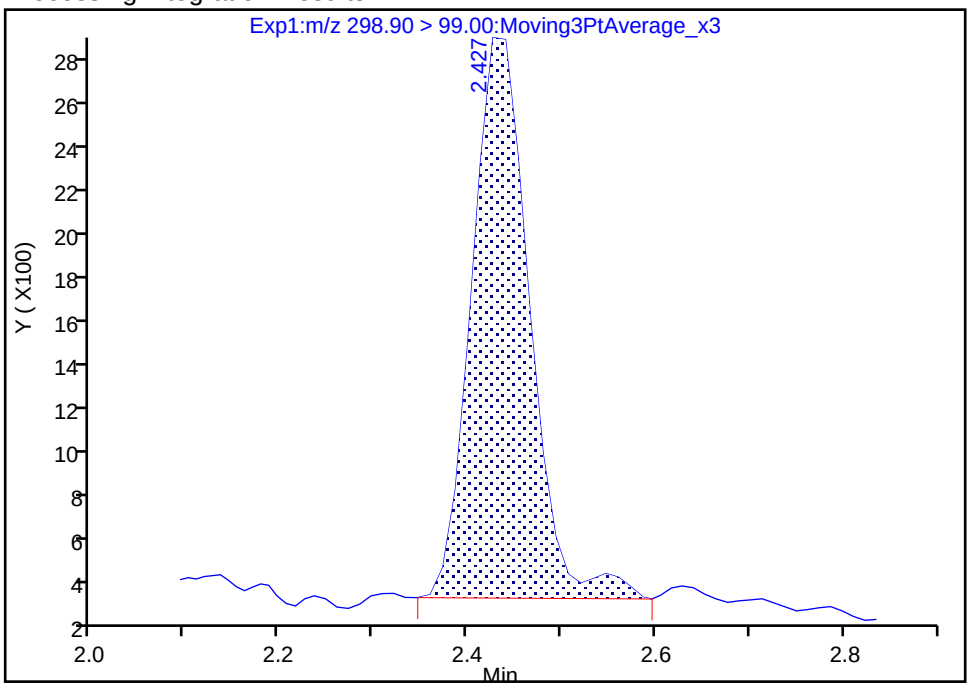
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

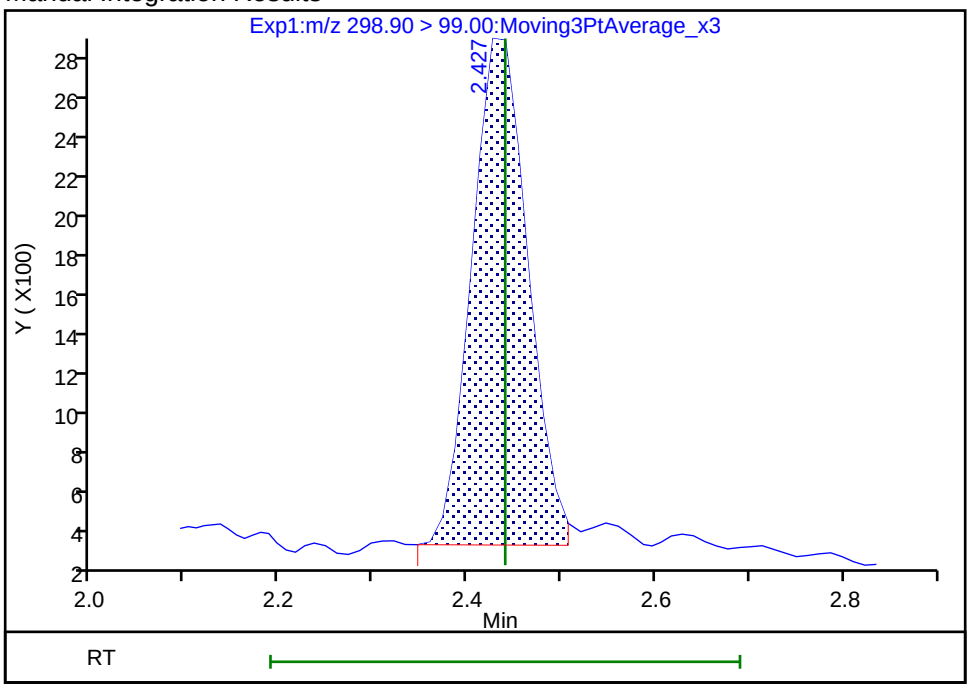
Processing Integration Results

RT: 2.43
Area: 10703
Amount: 0.013237
Amount Units: ng/ml



Manual Integration Results

RT: 2.43
Area: 10316
Amount: 0.013358
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:09:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

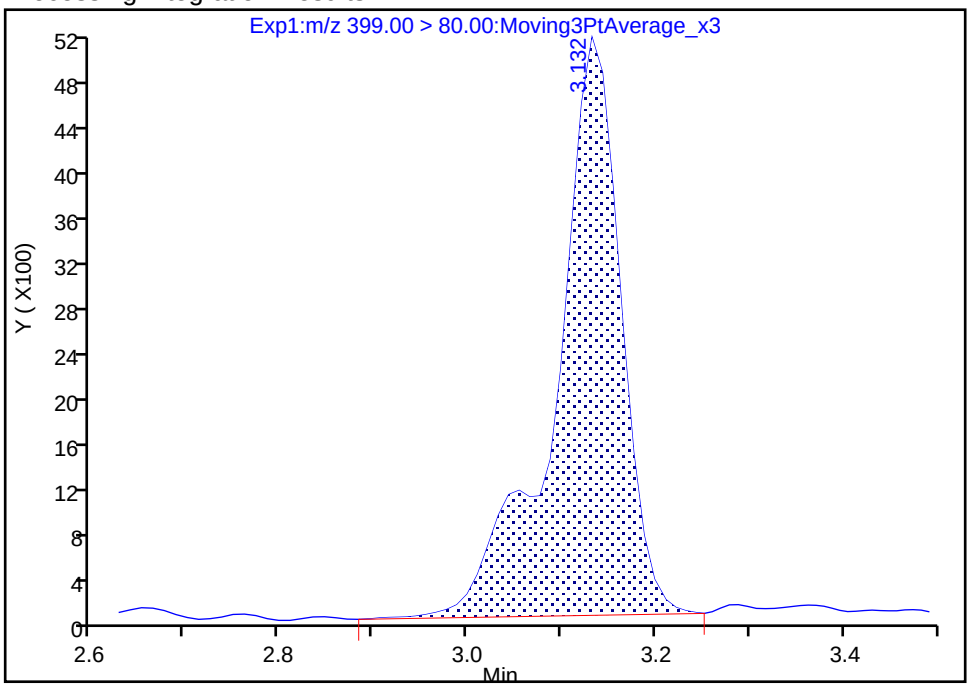
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

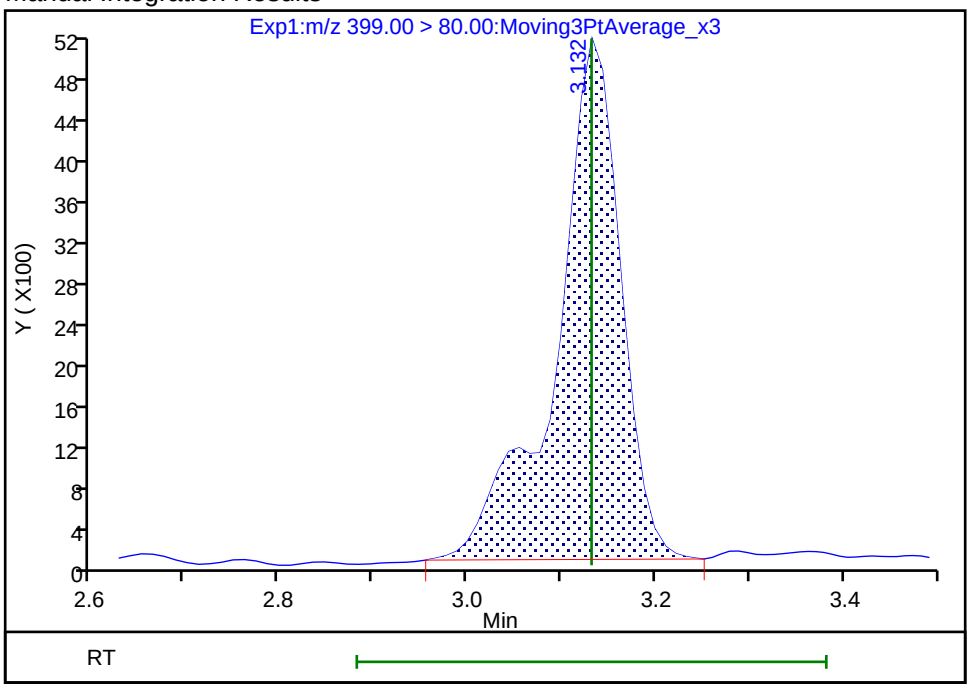
Processing Integration Results

RT: 3.13
Area: 24474
Amount: 0.017482
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 24150
Amount: 0.017251
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:11:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

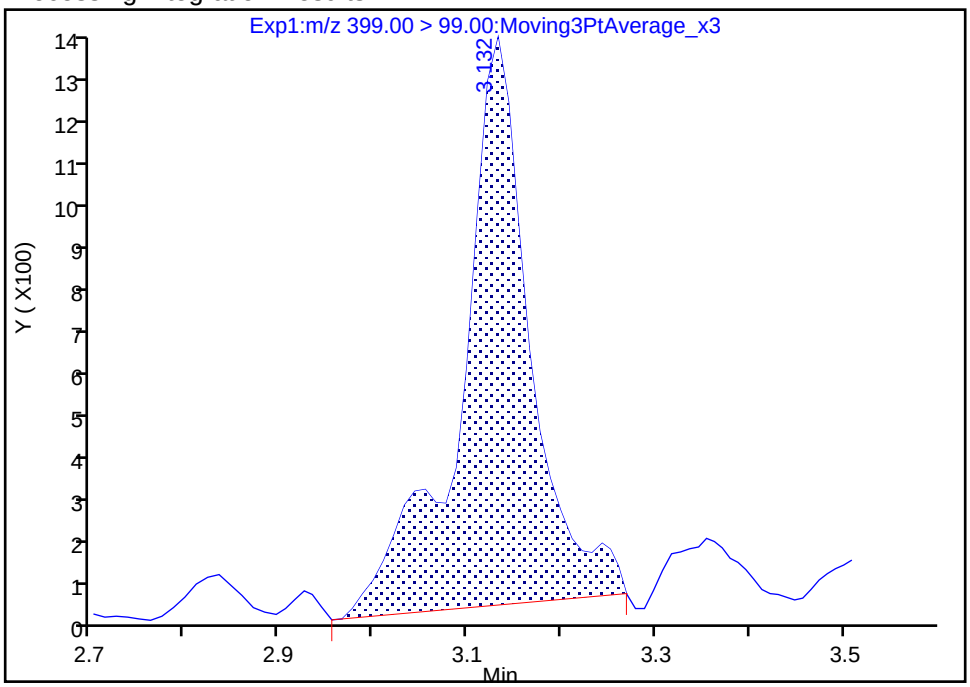
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d				
Injection Date:	05-May-2022 16:02:38	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

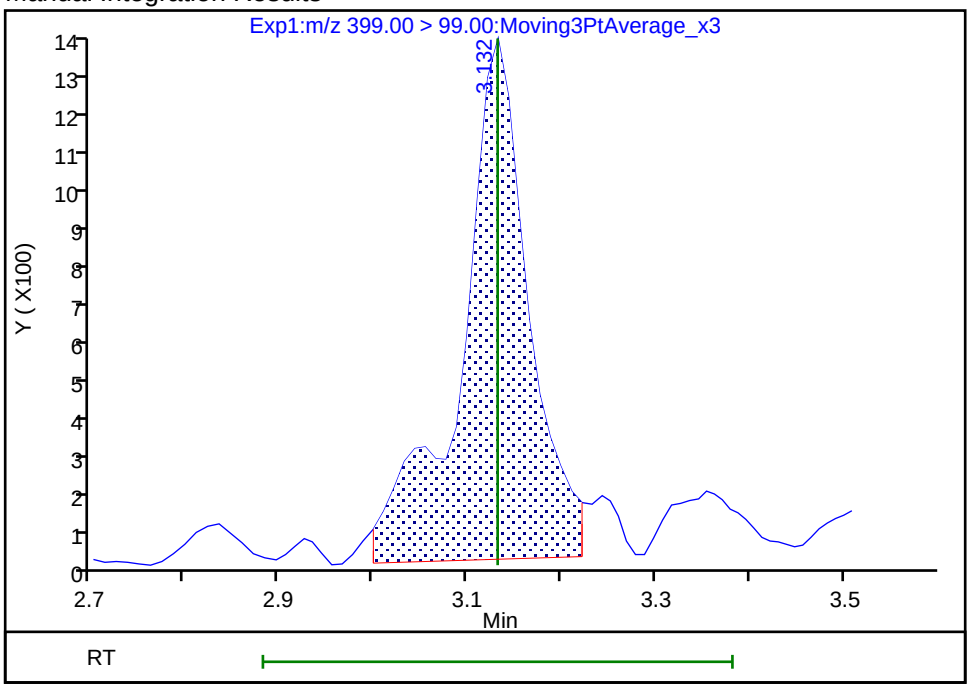
Processing Integration Results

RT: 3.13
Area: 6458
Amount: 0.017482
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 6359
Amount: 0.017251
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:11:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

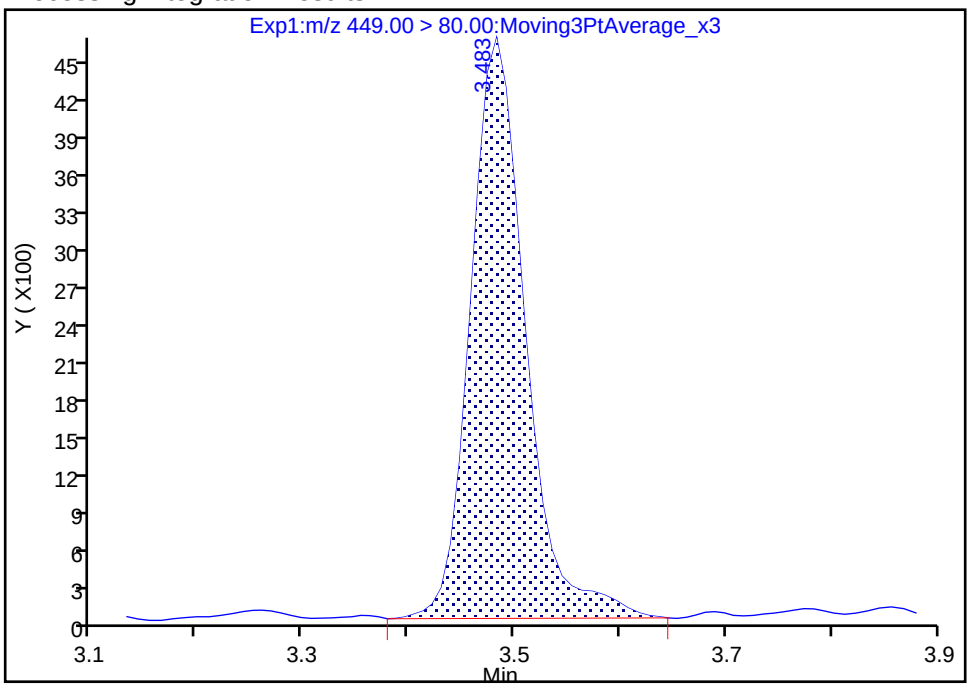
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

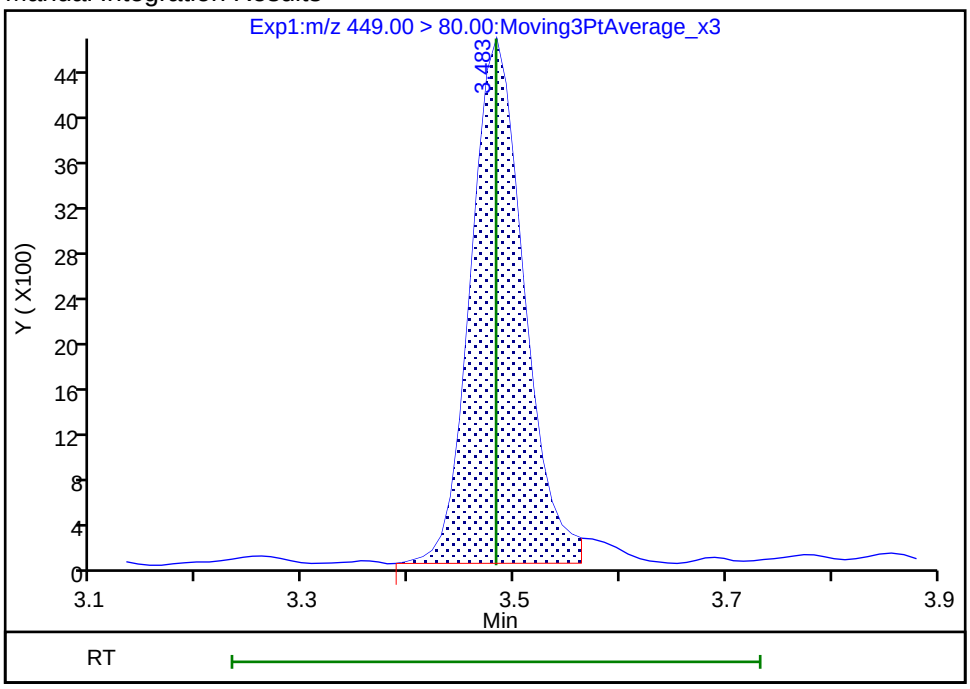
Processing Integration Results

RT: 3.48
Area: 16782
Amount: 0.015150
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 16249
Amount: 0.014669
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:12:16
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

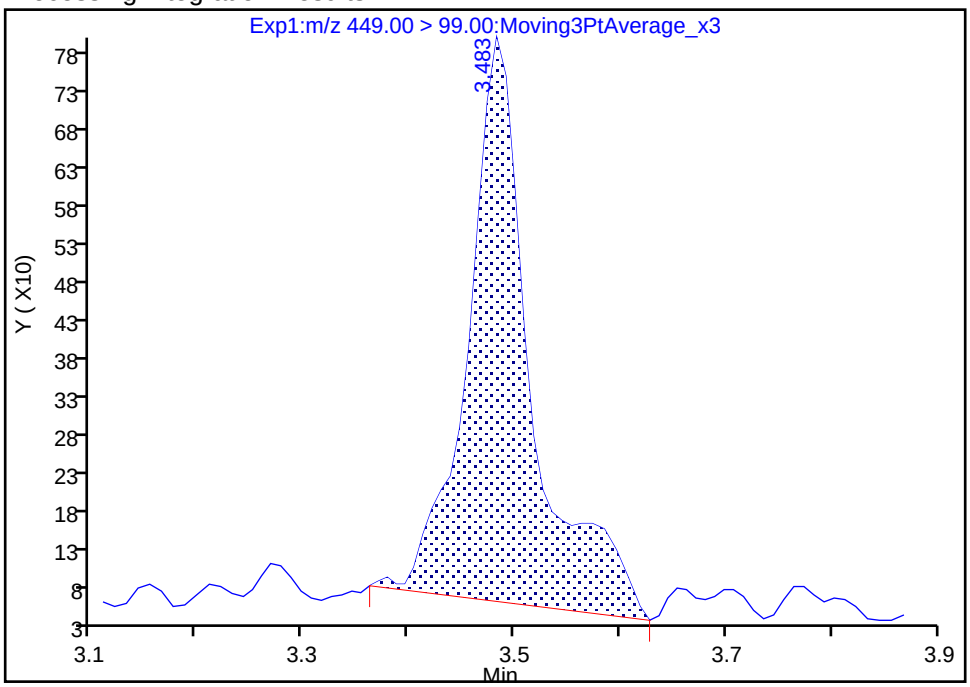
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d				
Injection Date:	05-May-2022 16:02:38	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

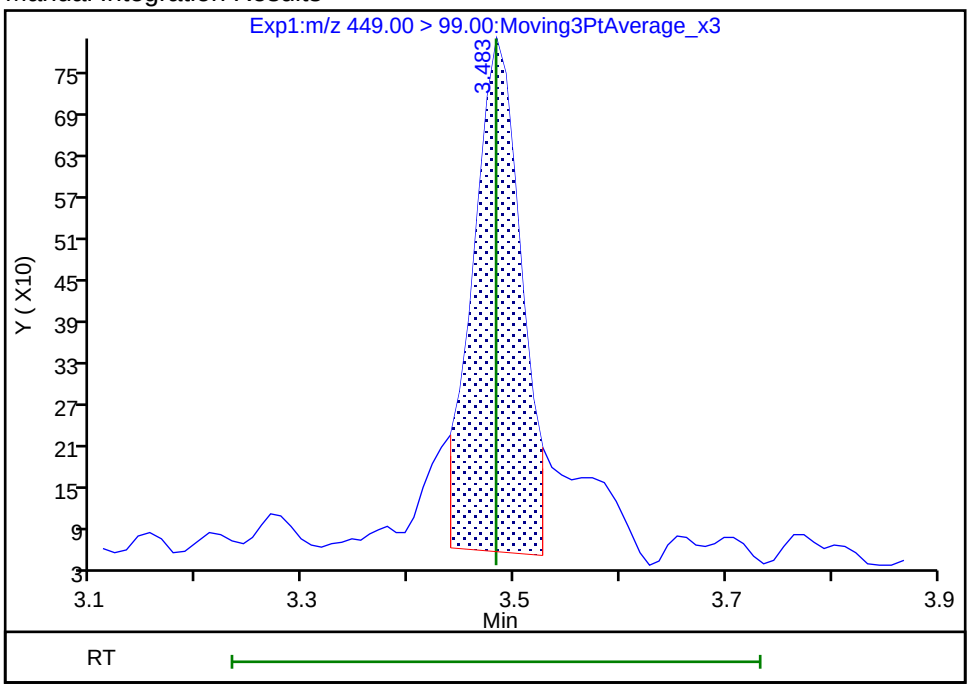
Processing Integration Results

RT: 3.48
Area: 3091
Amount: 0.015150
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 2316
Amount: 0.014669
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:12:21

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

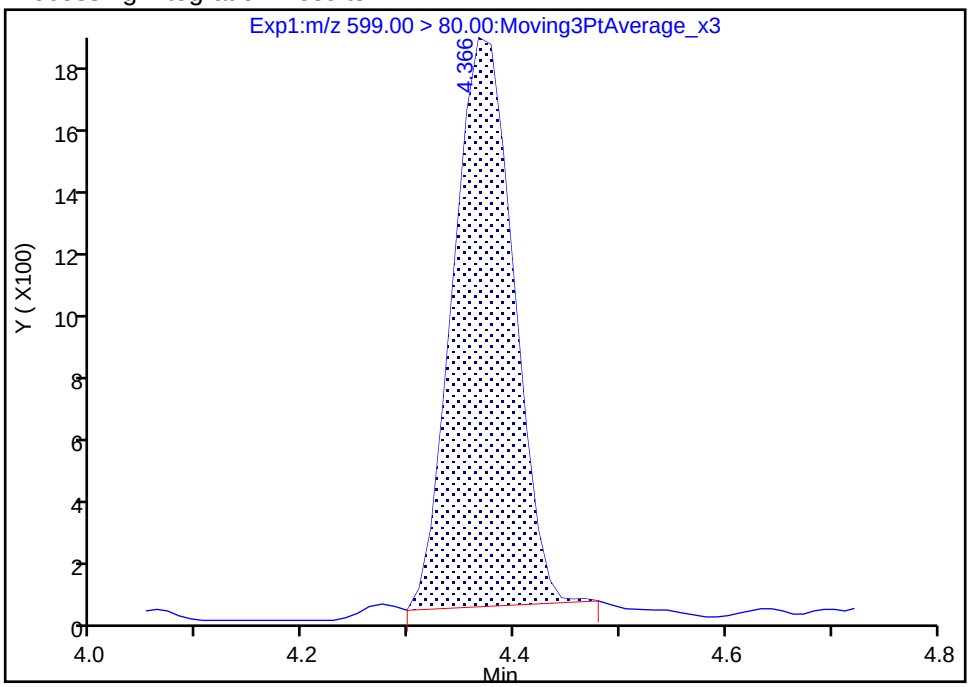
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

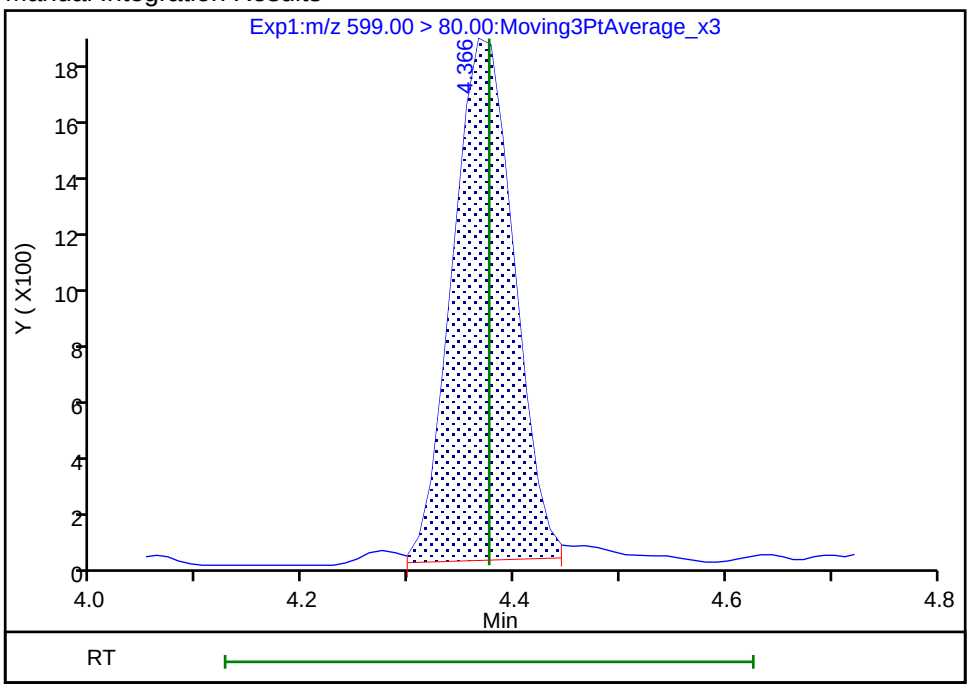
Processing Integration Results

RT: 4.37
Area: 7196
Amount: 0.012660
Amount Units: ng/ml



Manual Integration Results

RT: 4.37
Area: 7411
Amount: 0.013038
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:16:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

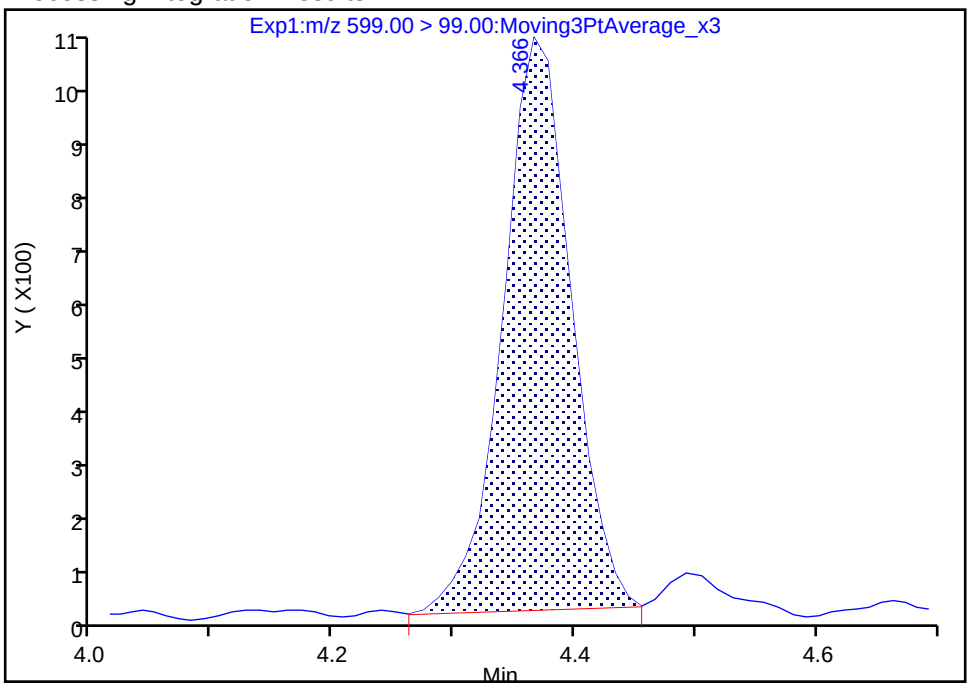
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d				
Injection Date:	05-May-2022 16:02:38	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

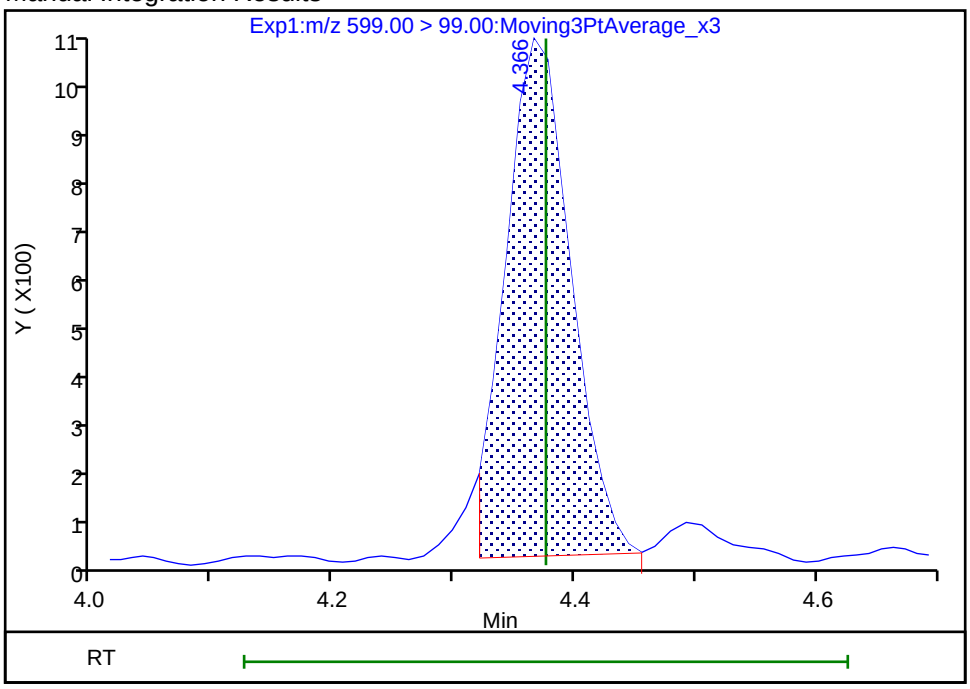
Processing Integration Results

RT: 4.37
Area: 3990
Amount: 0.012660
Amount Units: ng/ml



Manual Integration Results

RT: 4.37
Area: 3803
Amount: 0.013038
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:16:25

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

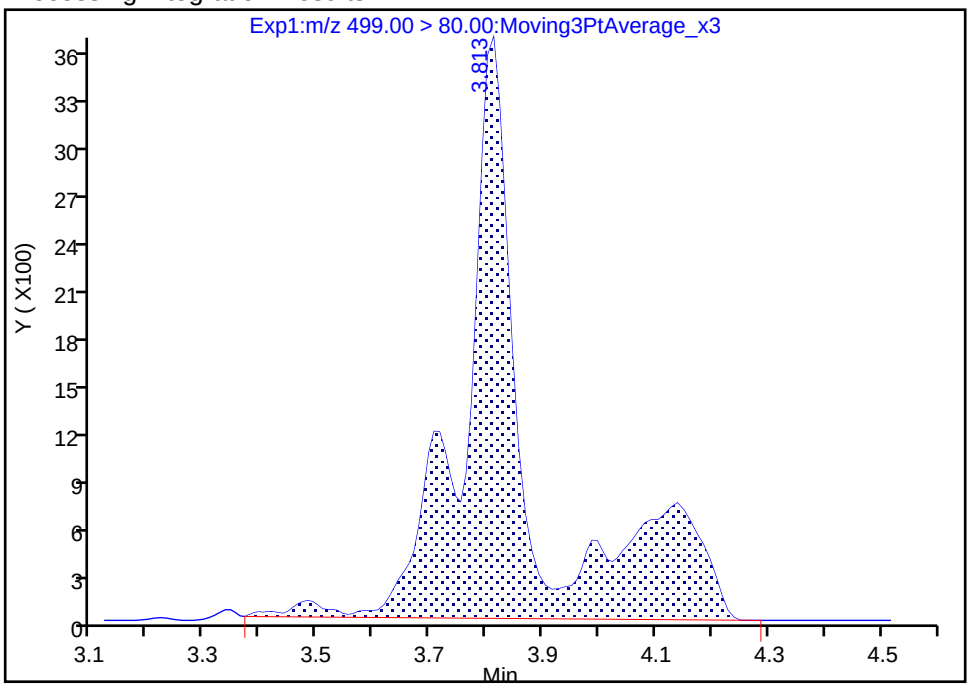
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d				
Injection Date:	05-May-2022 16:02:38	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

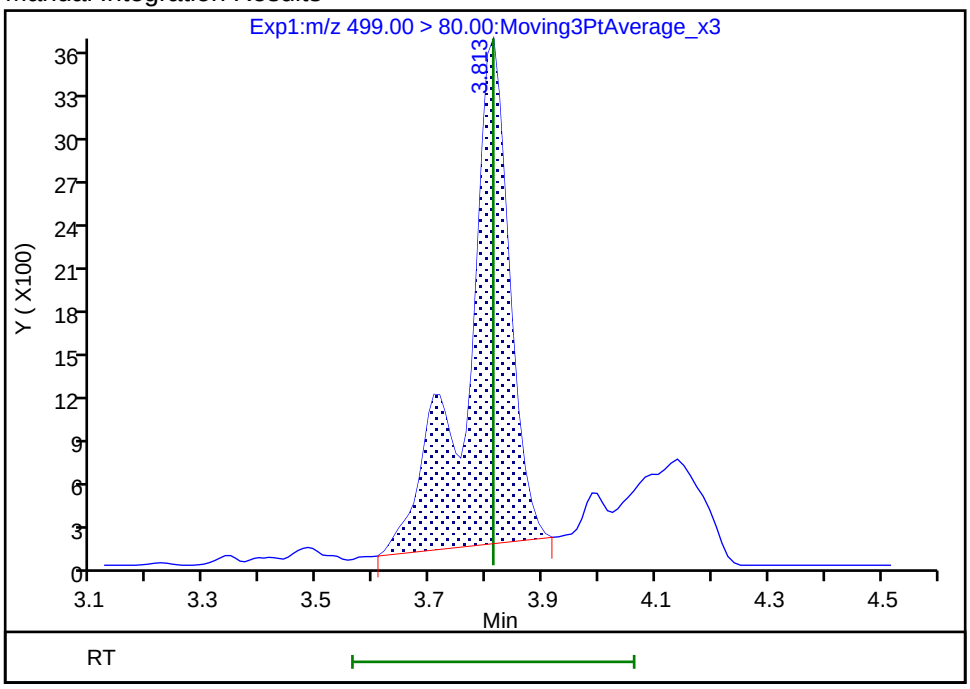
Processing Integration Results

RT: 3.81
Area: 29464
Amount: 0.029938
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 18466
Amount: 0.018763
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:01:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

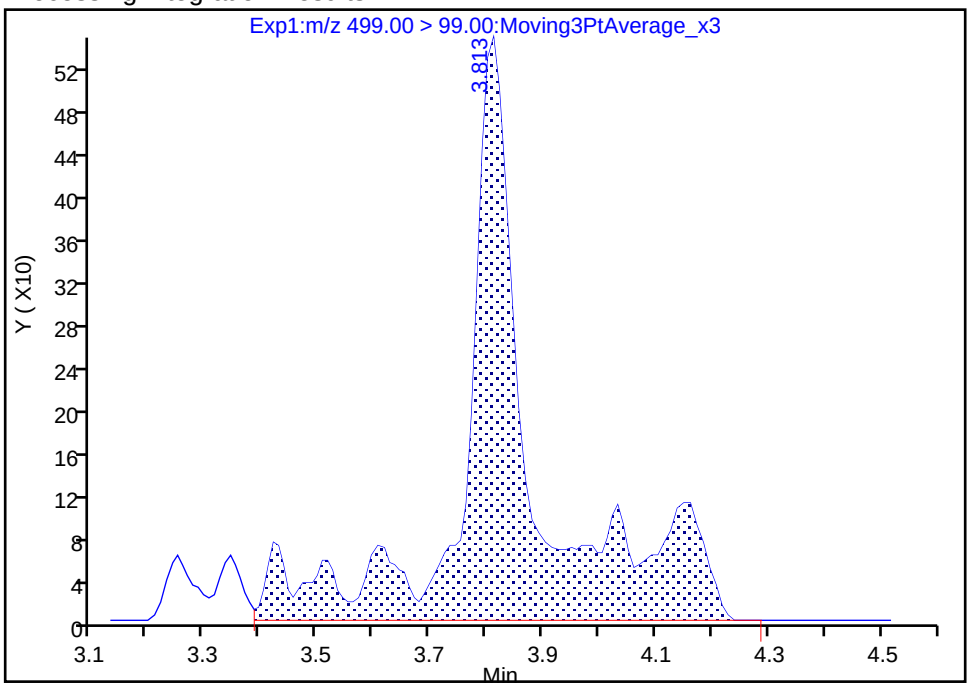
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

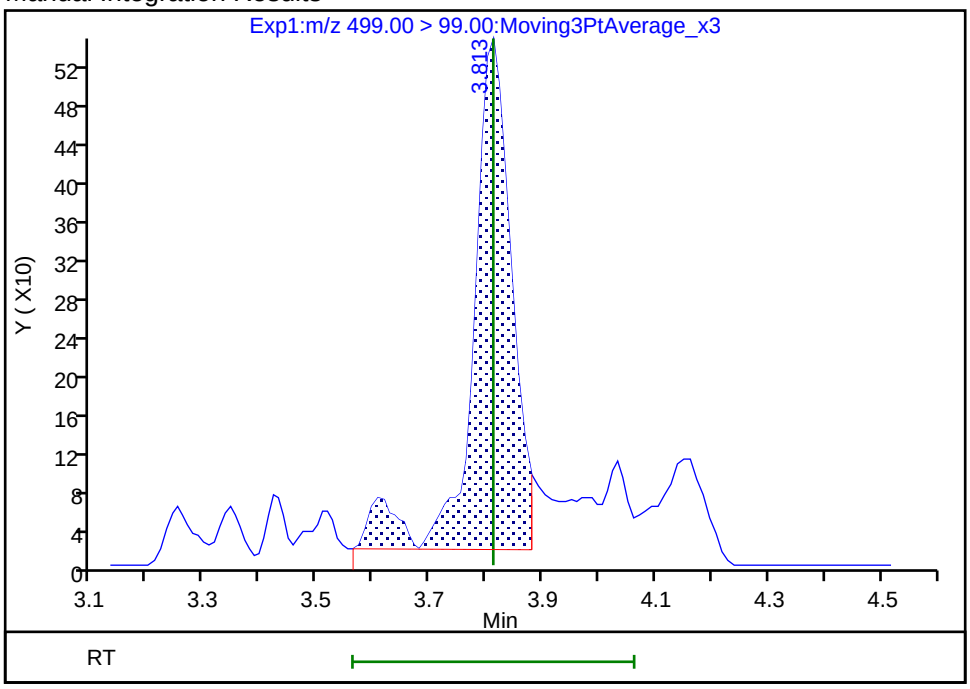
Processing Integration Results

RT: 3.81
Area: 4745
Amount: 0.029938
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 2558
Amount: 0.018763
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:13:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

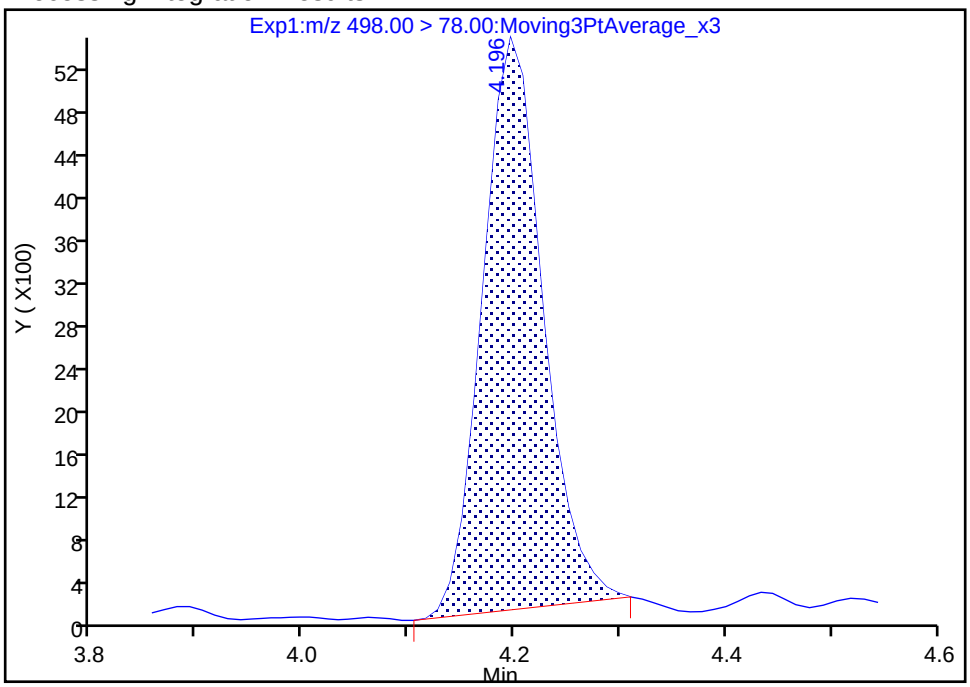
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

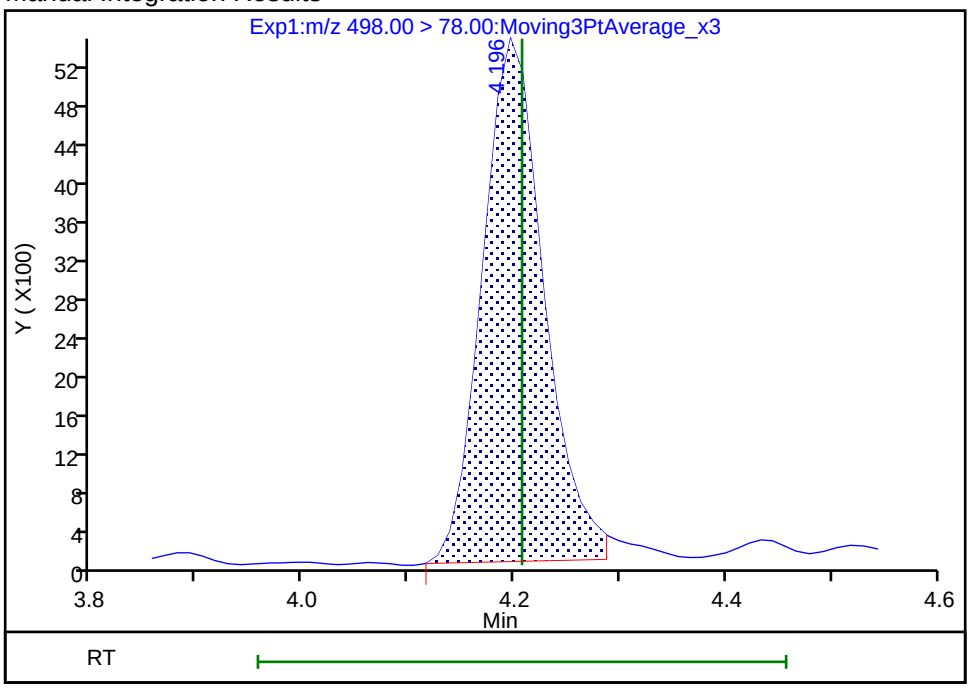
Processing Integration Results

RT: 4.20
Area: 21341
Amount: 0.014743
Amount Units: ng/ml



Manual Integration Results

RT: 4.20
Area: 21925
Amount: 0.015146
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:15:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

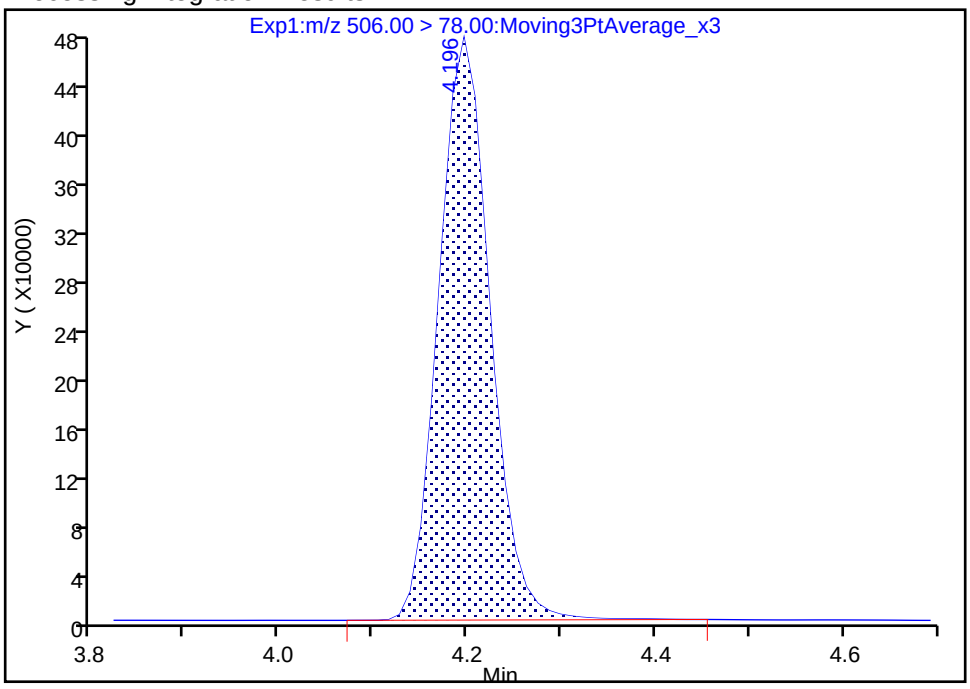
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

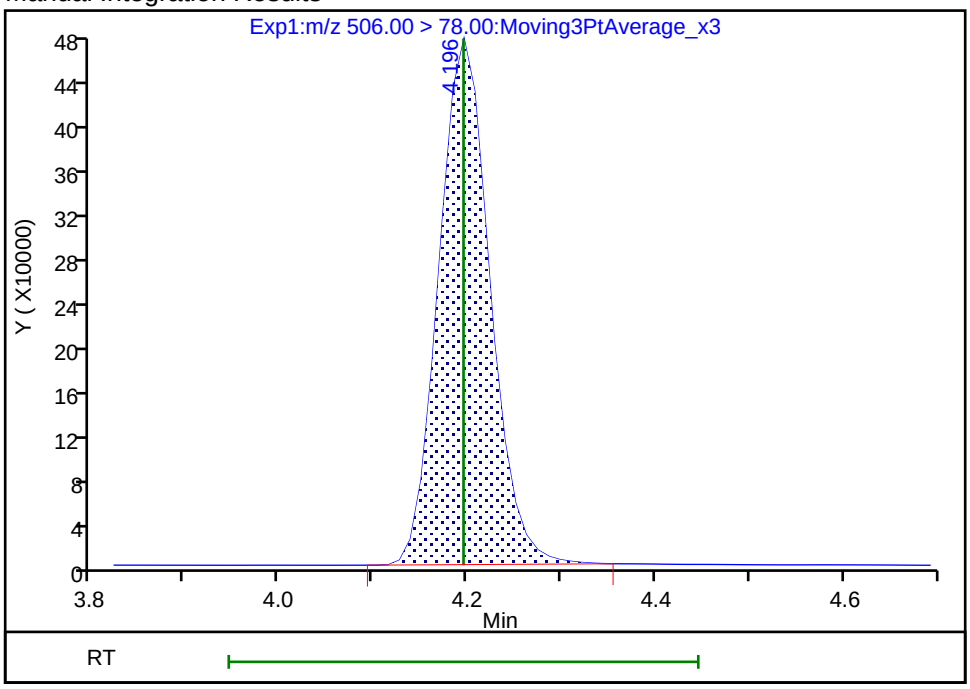
Processing Integration Results

RT: 4.20
Area: 1791746
Amount: 1.237233
Amount Units: ng/ml



Manual Integration Results

RT: 4.20
Area: 1783231
Amount: 1.231353
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:15:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

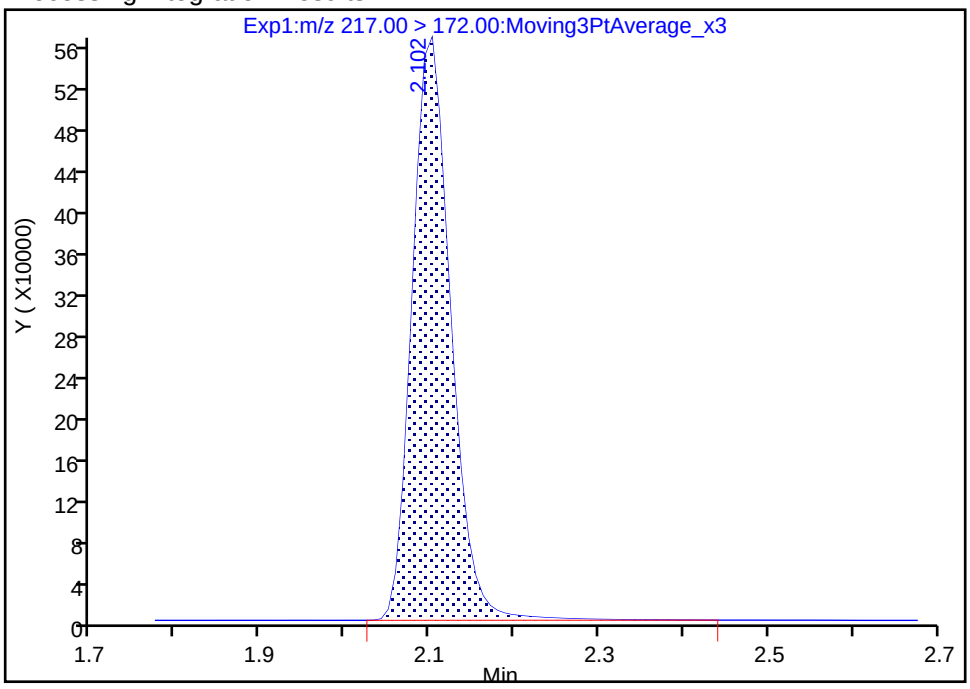
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d				
Injection Date:	05-May-2022 16:02:38	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

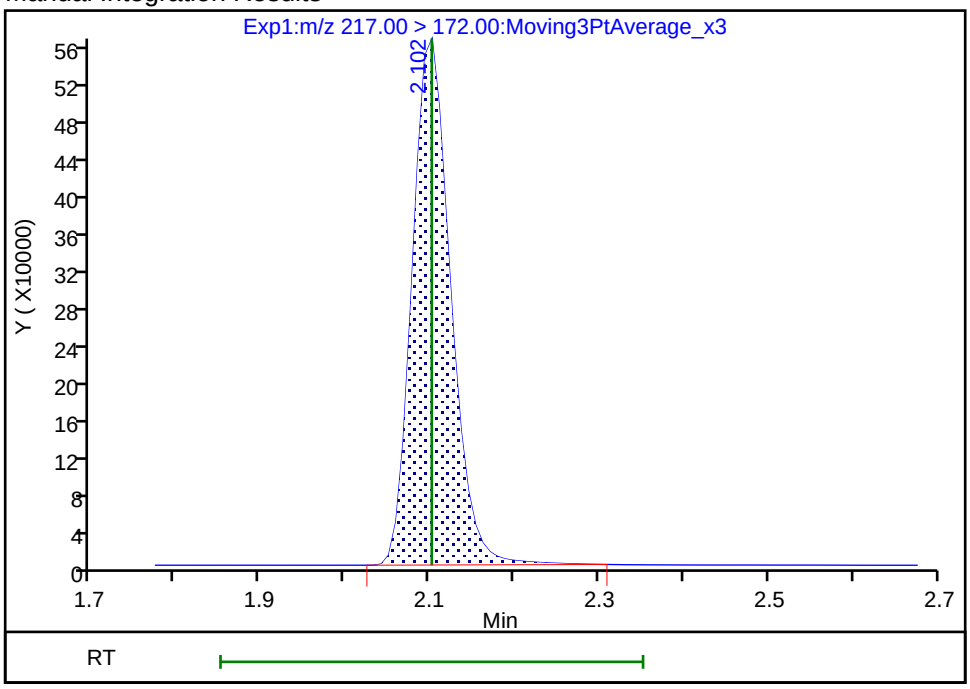
Processing Integration Results

RT: 2.10
Area: 1787731
Amount: 1.249542
Amount Units: ng/ml



Manual Integration Results

RT: 2.10
Area: 1780328
Amount: 1.255014
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:09:00

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

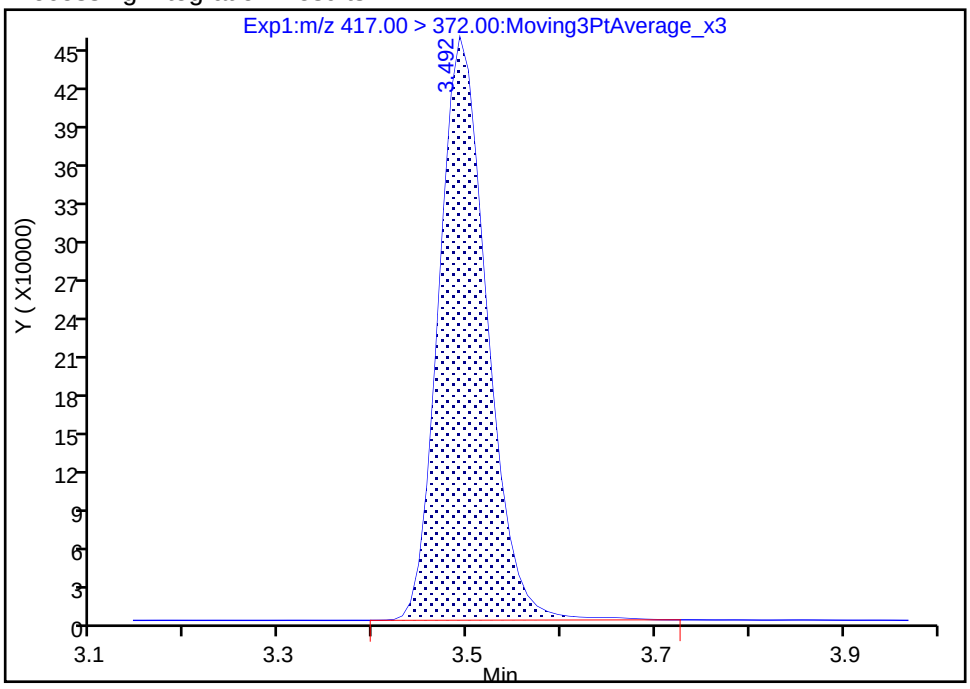
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d				
Injection Date:	05-May-2022 16:02:38	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

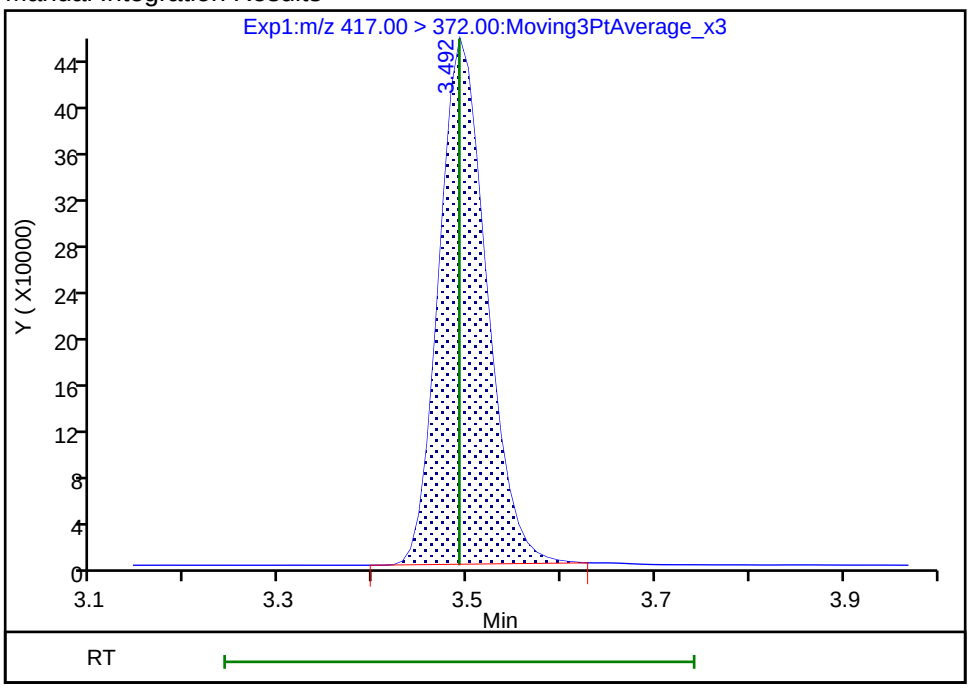
Processing Integration Results

RT: 3.49
Area: 1612060
Amount: 1.270528
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 1594609
Amount: 1.267527
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:12:37

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

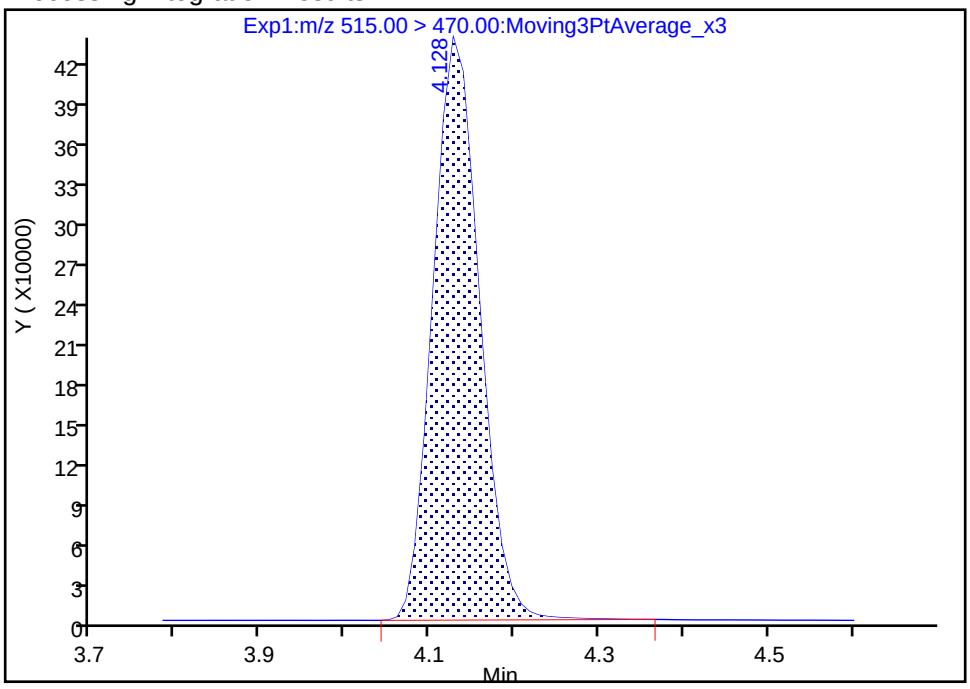
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

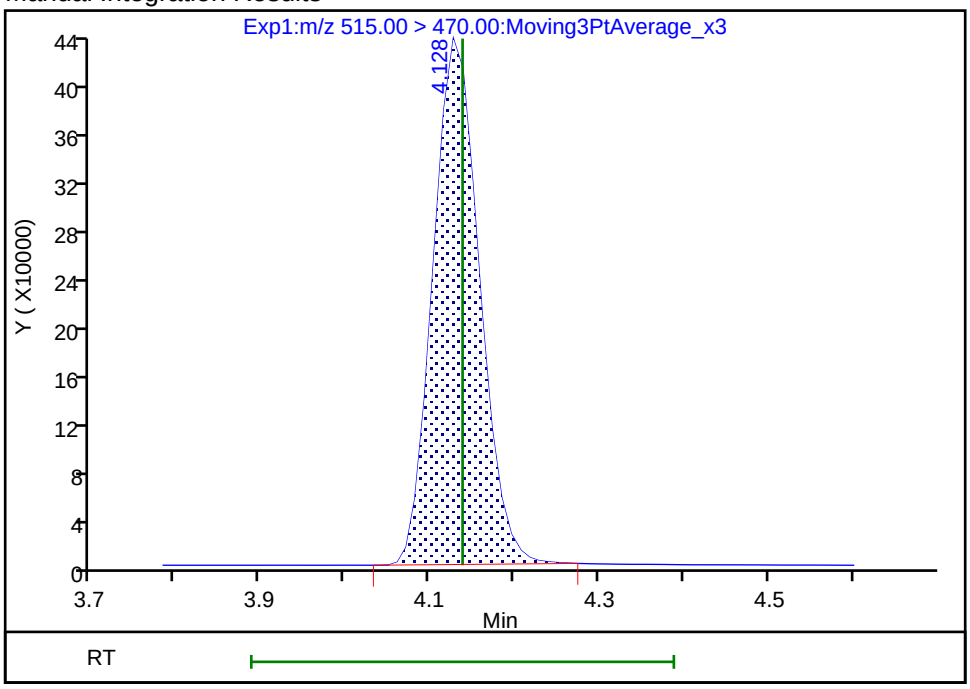
Processing Integration Results

RT: 4.13
Area: 1650484
Amount: 1.253873
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 1641277
Amount: 1.246879
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:15:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

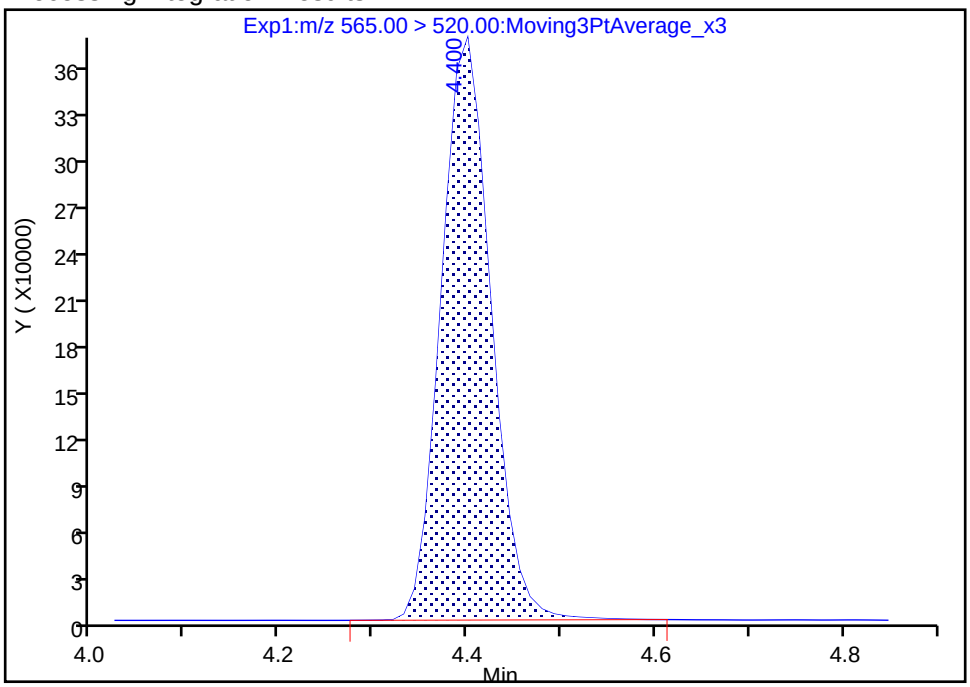
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

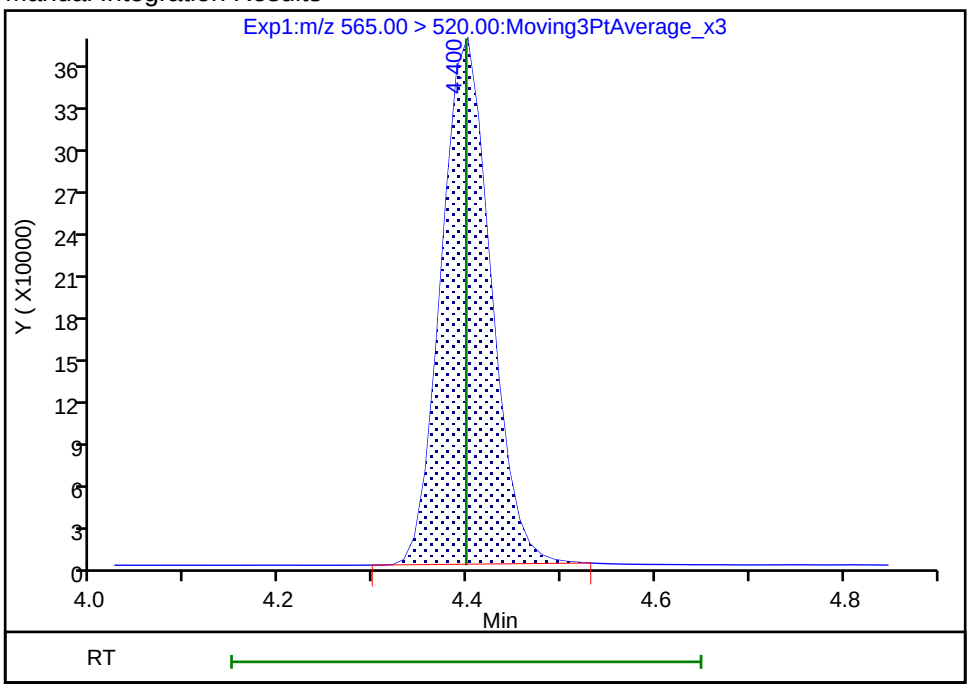
Processing Integration Results

RT: 4.40
Area: 1389753
Amount: 1.314991
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 1378916
Amount: 1.304737
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:16:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

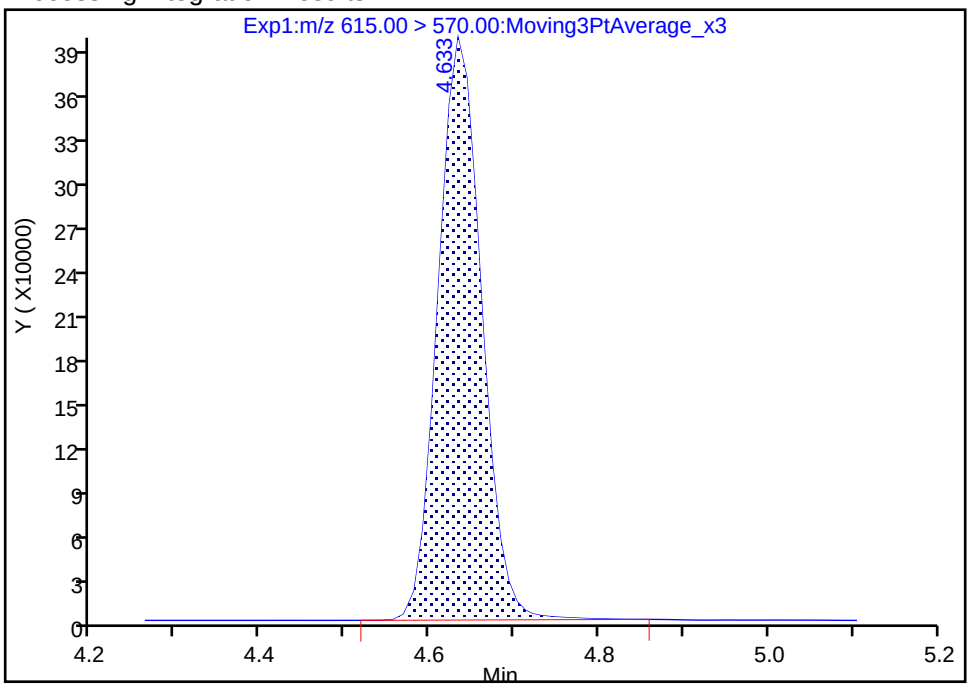
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d				
Injection Date:	05-May-2022 16:02:38	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 36 13C2 PFDoA, CAS: STL00998

Signal: 1

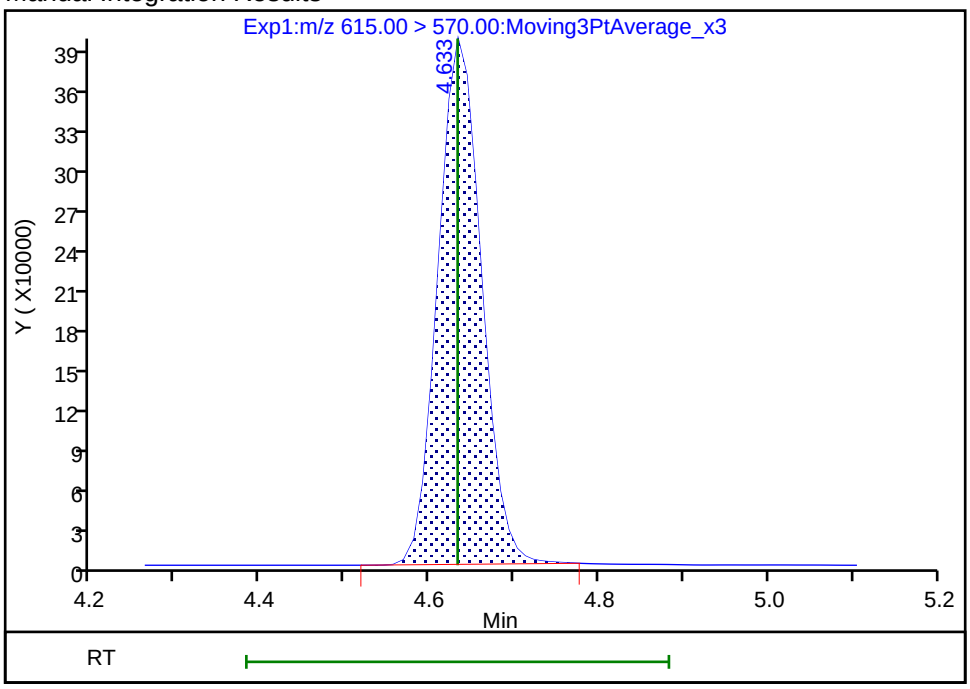
Processing Integration Results

RT: 4.63
Area: 1417450
Amount: 1.255853
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 1408284
Amount: 1.247732
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:17:20

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

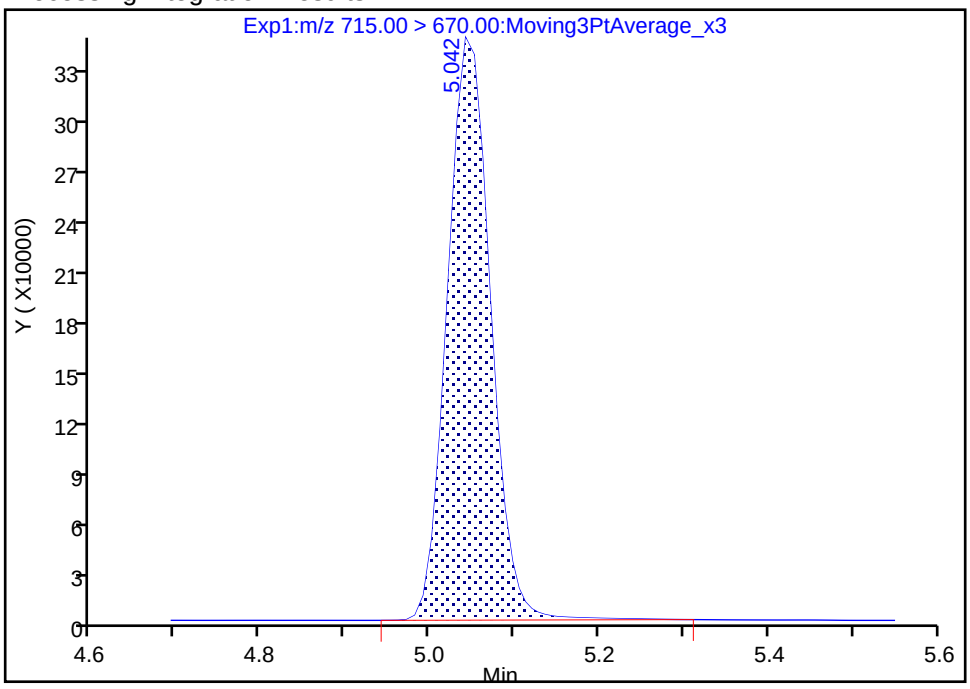
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d				
Injection Date:	05-May-2022 16:02:38	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

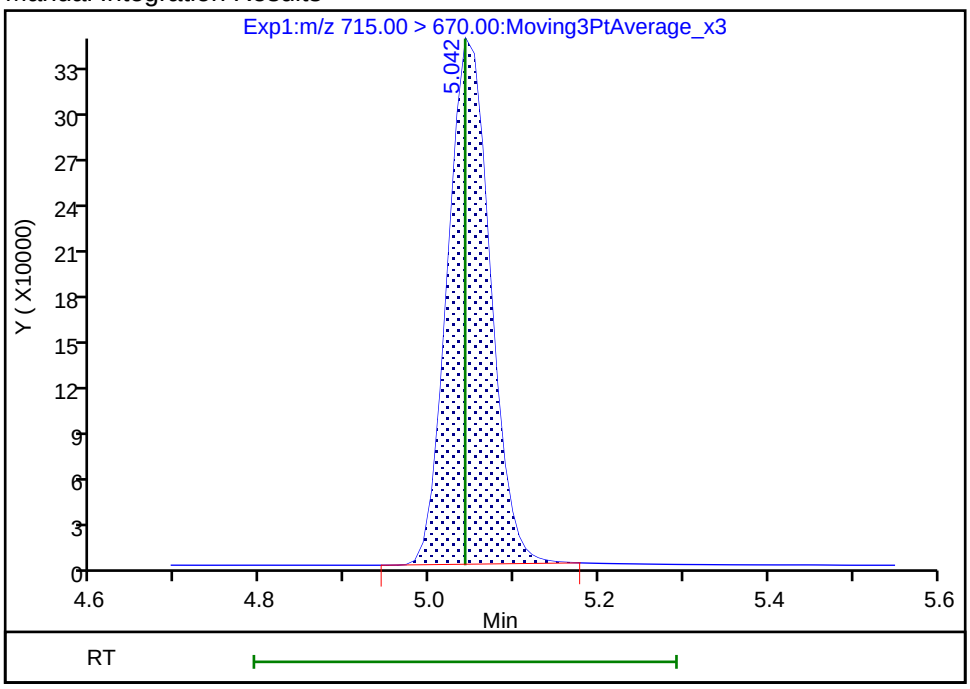
Processing Integration Results

RT: 5.04
Area: 1216814
Amount: 1.319094
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 1203706
Amount: 1.304884
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:18:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

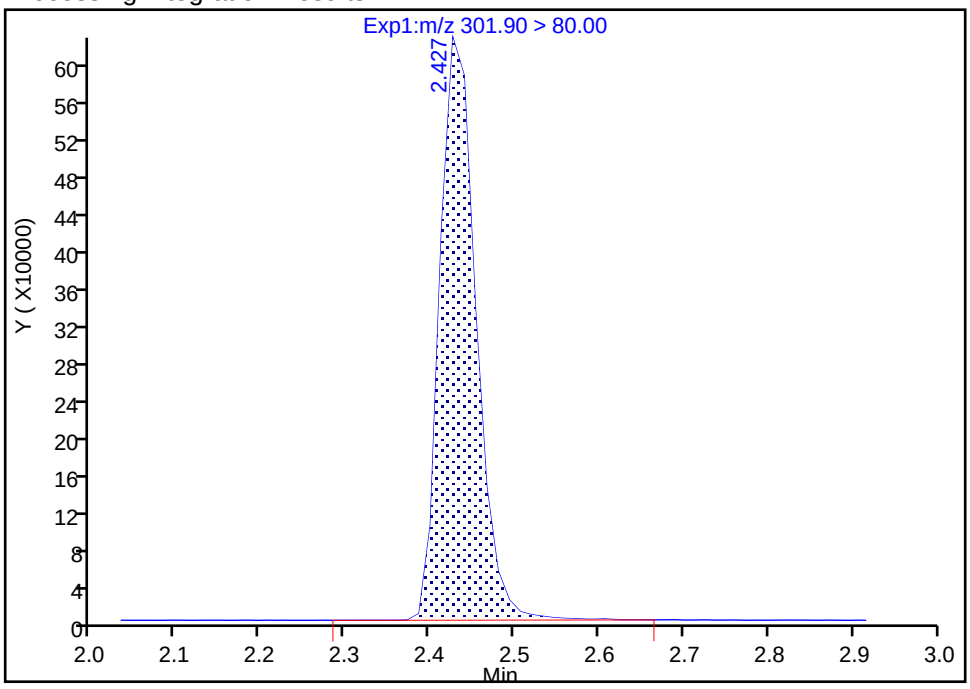
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d				
Injection Date:	05-May-2022 16:02:38	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

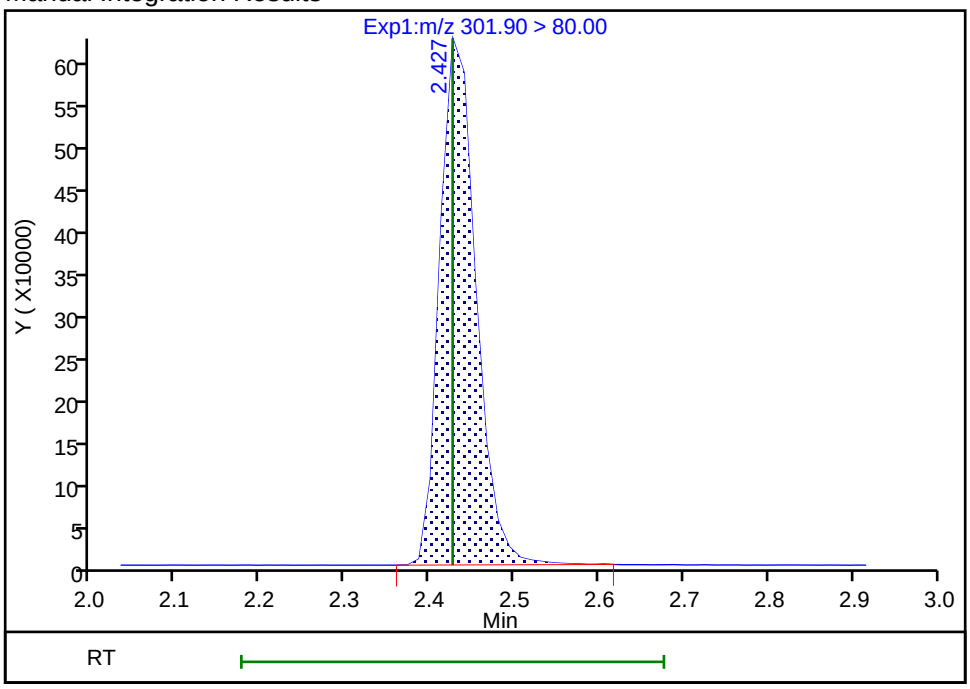
Processing Integration Results

RT: 2.43
Area: 1859289
Amount: 1.172493
Amount Units: ng/ml



Manual Integration Results

RT: 2.43
Area: 1854743
Amount: 1.179633
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:09:11

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

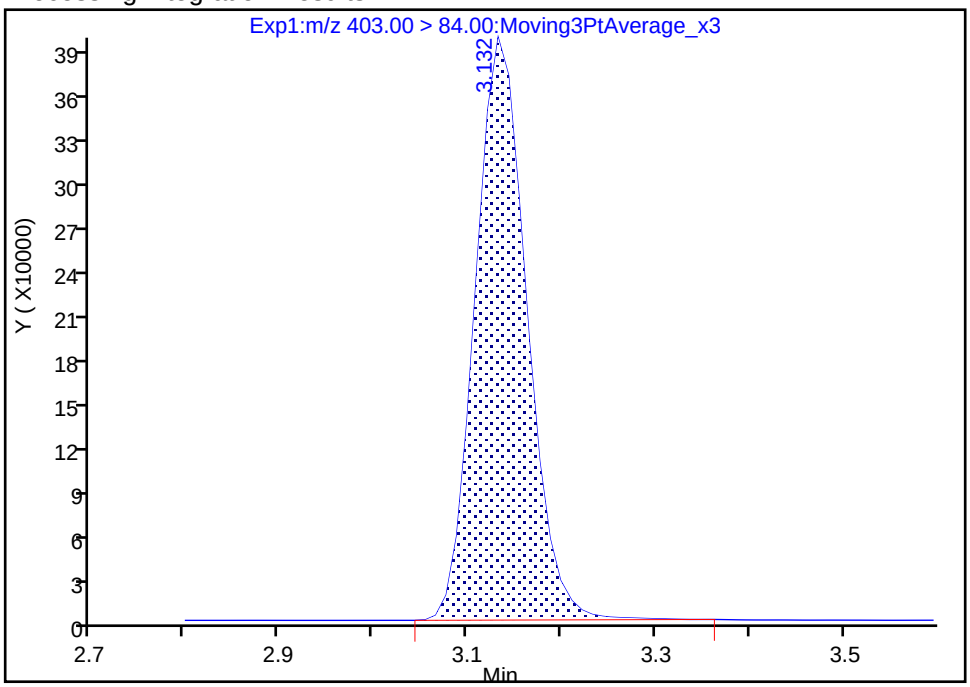
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d				
Injection Date:	05-May-2022 16:02:38	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

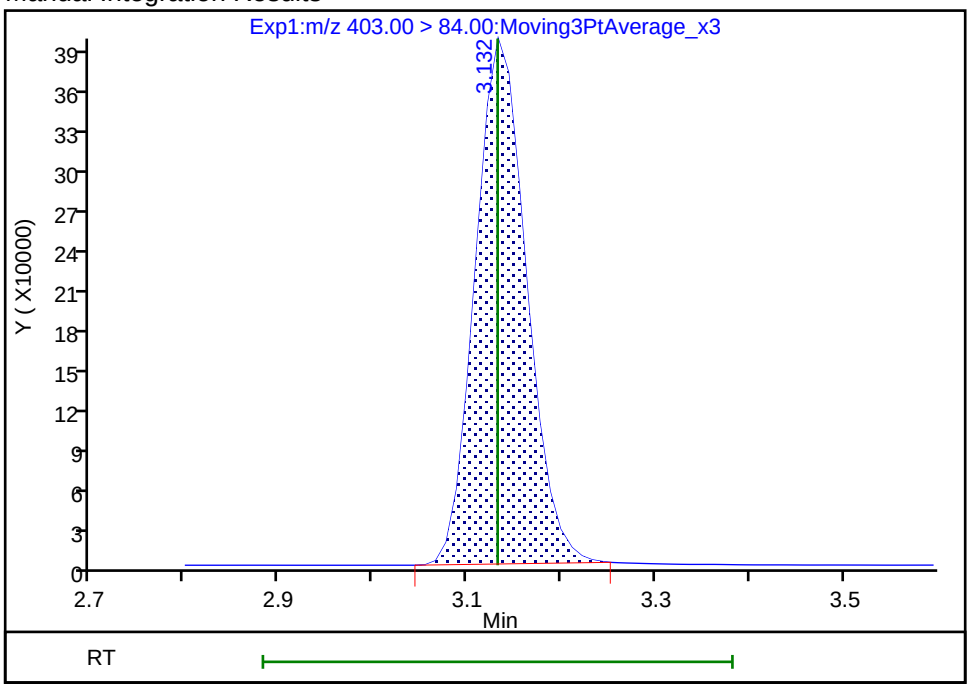
Processing Integration Results

RT: 3.13
Area: 1512783
Amount: 1.219658
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 1497723
Amount: 1.217847
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:10:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

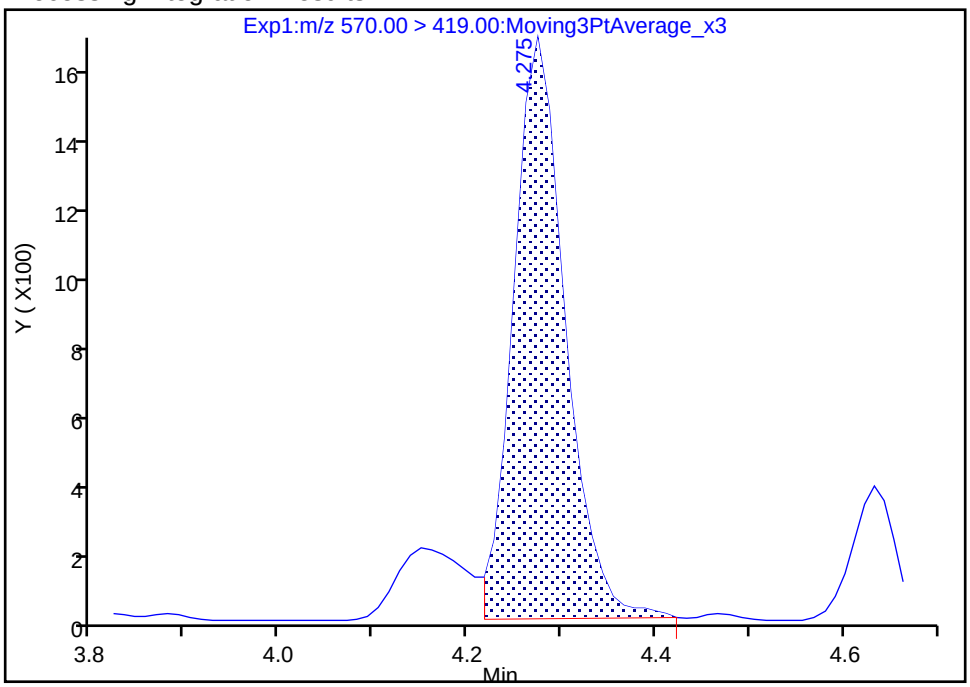
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

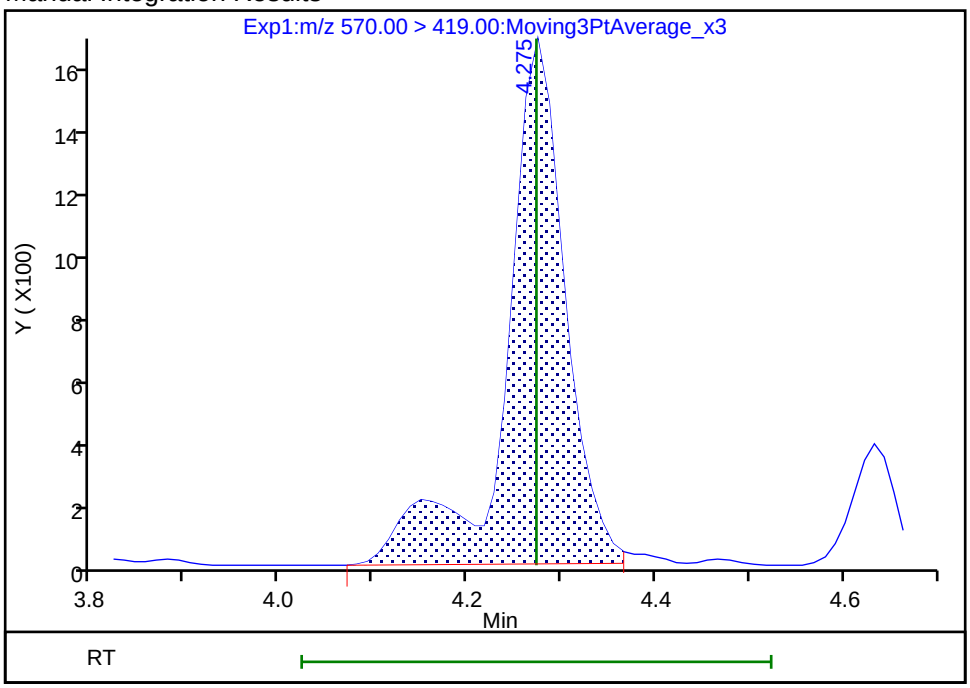
Processing Integration Results

RT: 4.27
Area: 6192
Amount: 0.039305
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 7154
Amount: 0.046074
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:00:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

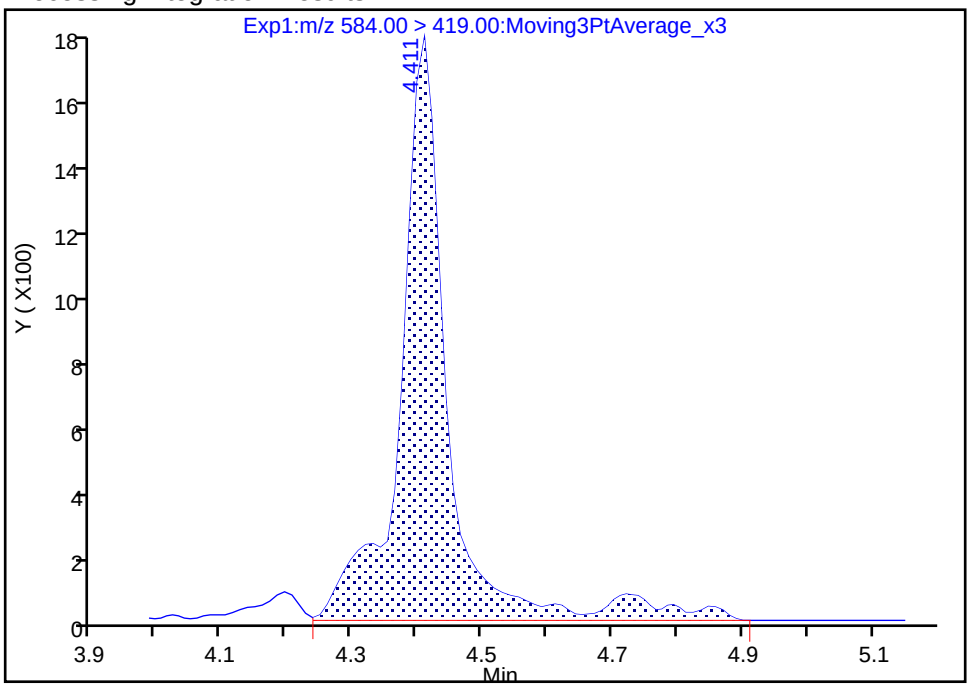
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

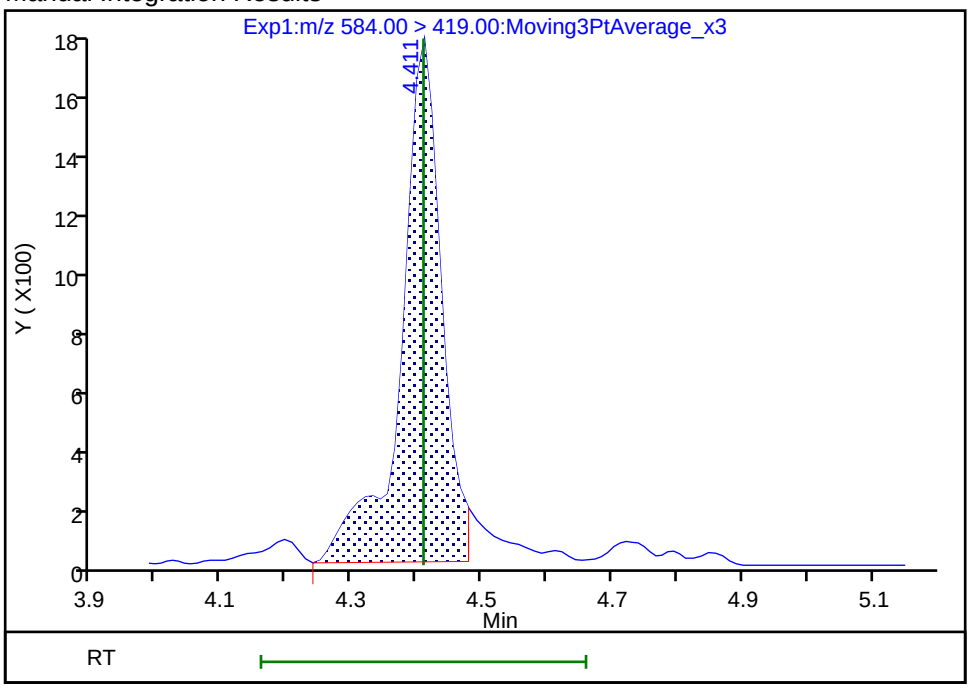
Processing Integration Results

RT: 4.41
Area: 9176
Amount: 0.055244
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 7662
Amount: 0.046129
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:17:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

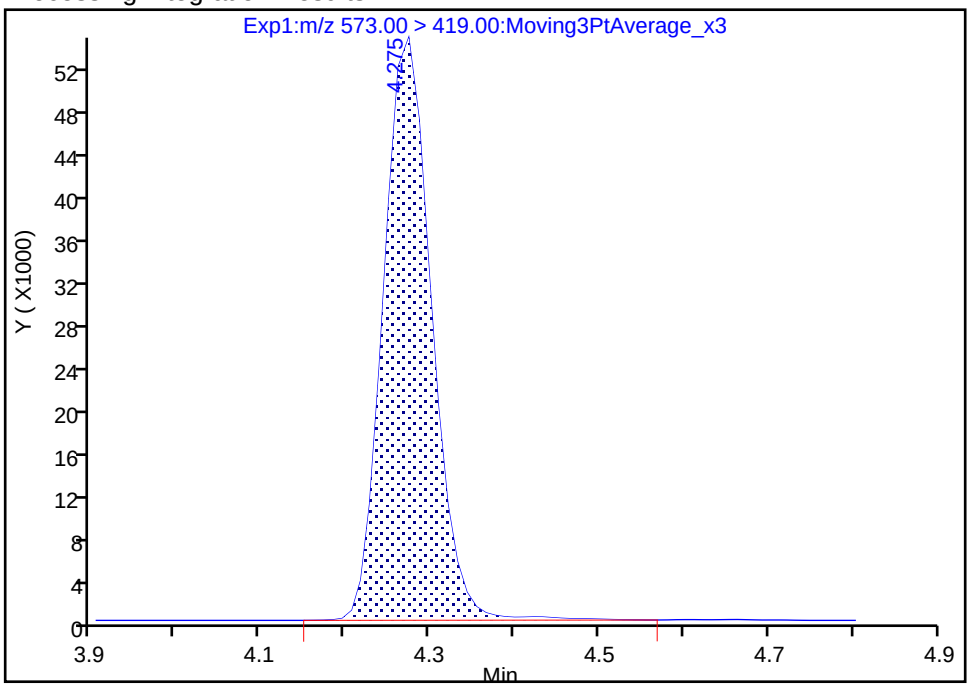
Data File:	\\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d				
Injection Date:	05-May-2022 16:02:38	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

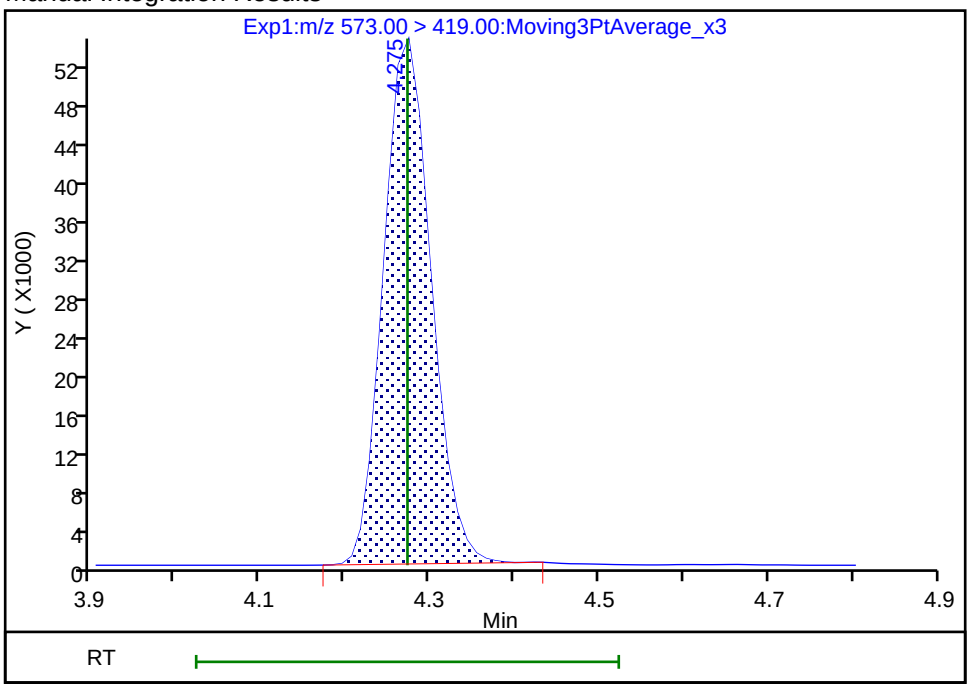
Processing Integration Results

RT: 4.27
Area: 216533
Amount: 1.239315
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 213421
Amount: 1.221504
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:16:07

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

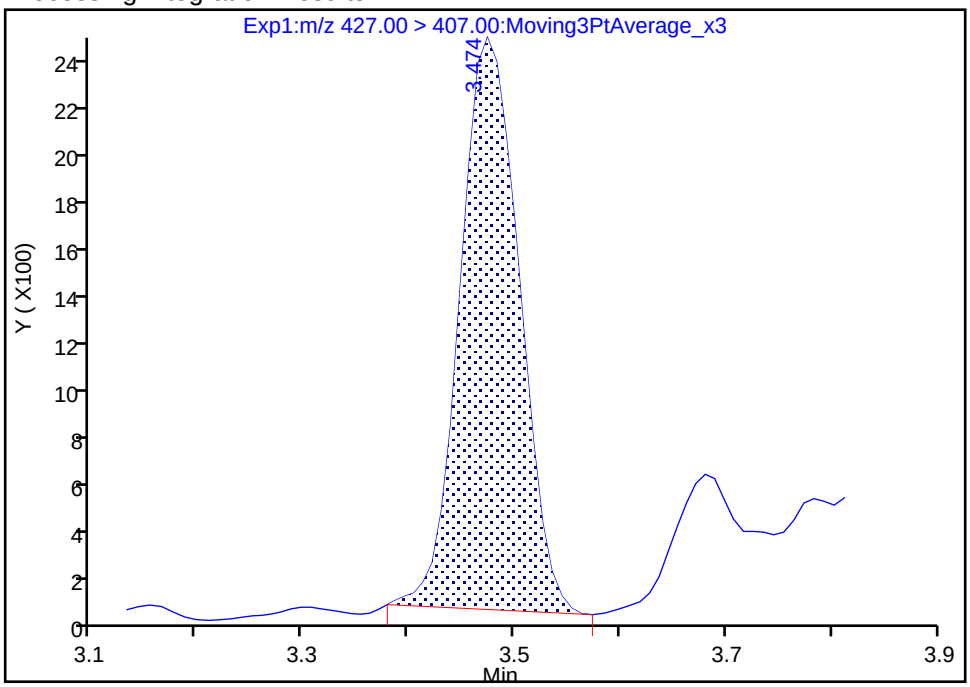
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

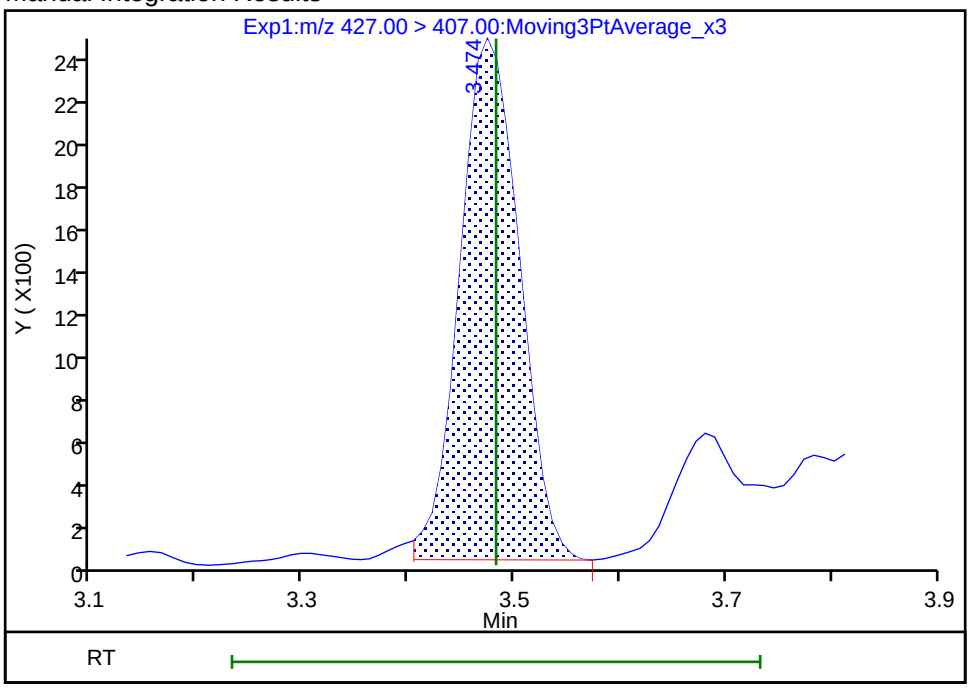
Processing Integration Results

RT: 3.47
Area: 9326
Amount: 0.003431
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 9457
Amount: 0.003865
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:12:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

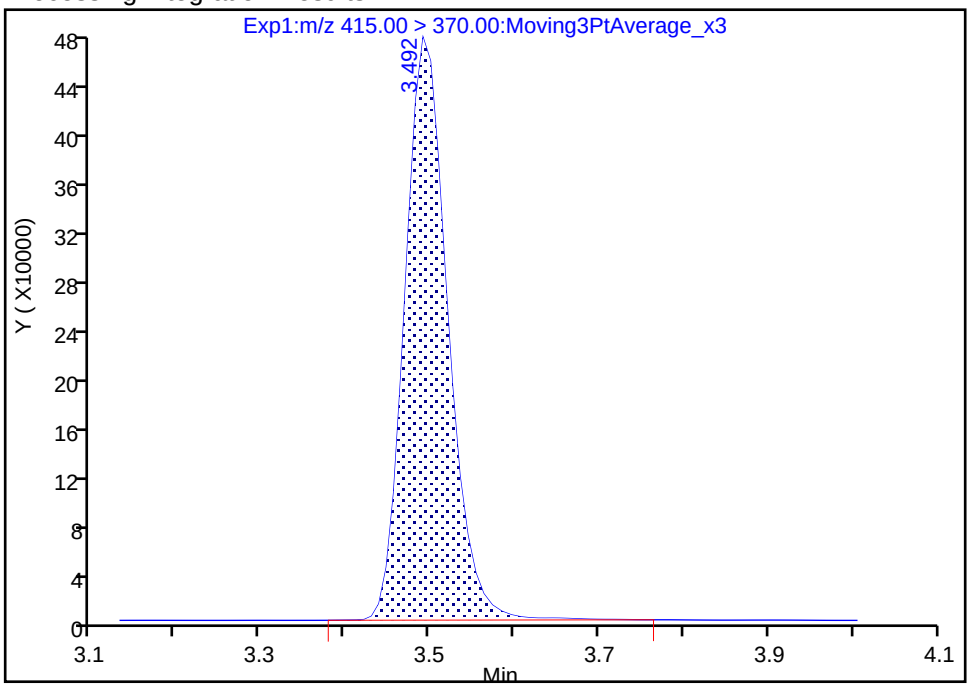
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

* 62 13C2 PFOA, CAS: STL00623

Signal: 1

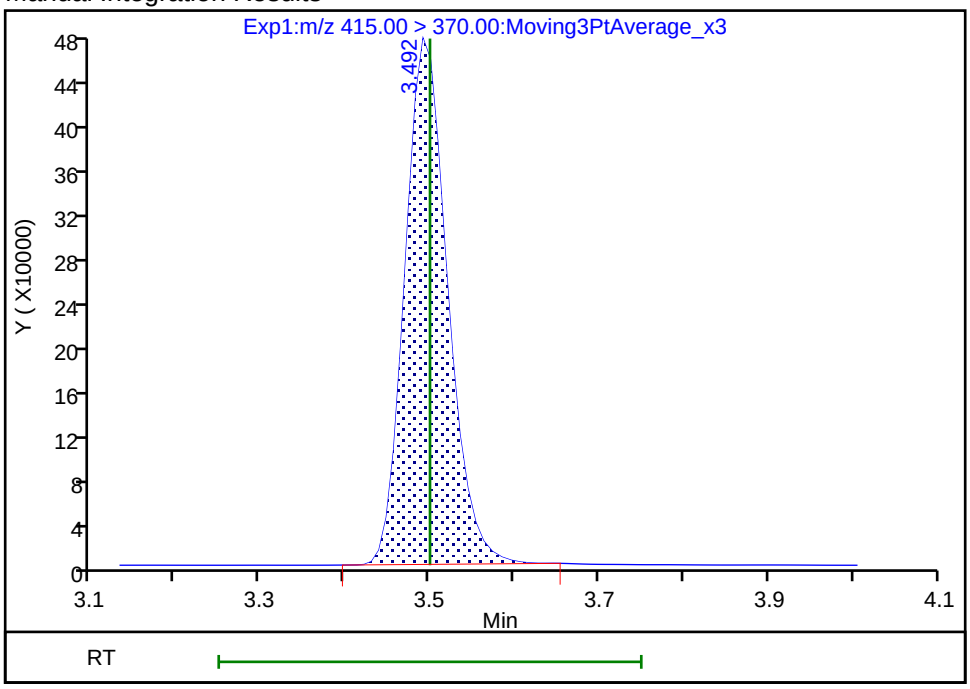
Processing Integration Results

RT: 3.49
Area: 1684671
Amount: 1.250000
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 1670380
Amount: 1.250000
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:12:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

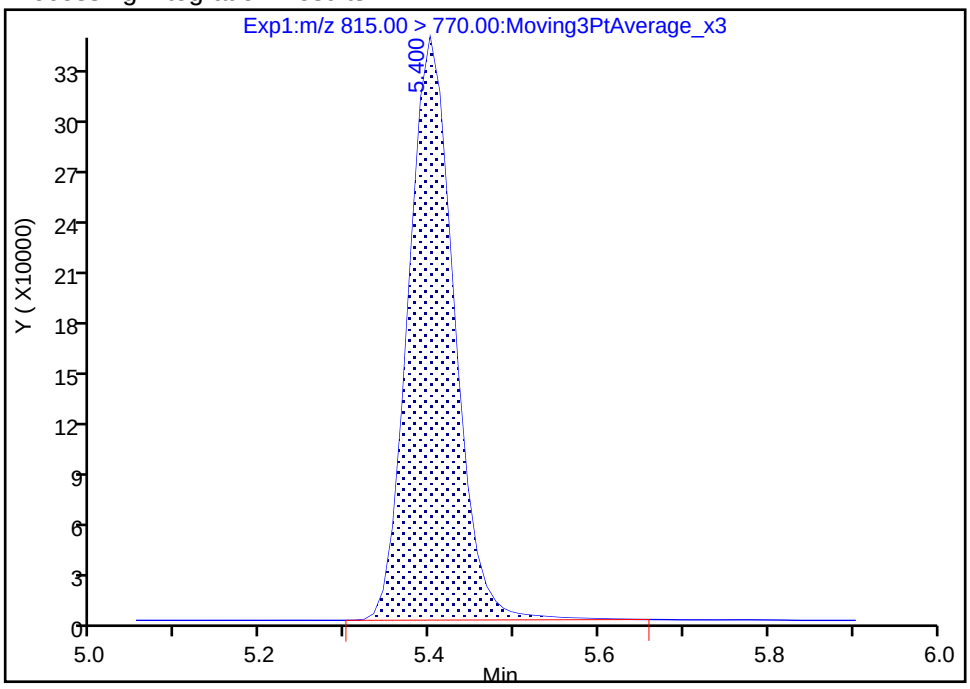
Data File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL11.d
Injection Date: 05-May-2022 16:02:38 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 44 13C2 PFHxDA, CAS: STL02115

Signal: 1

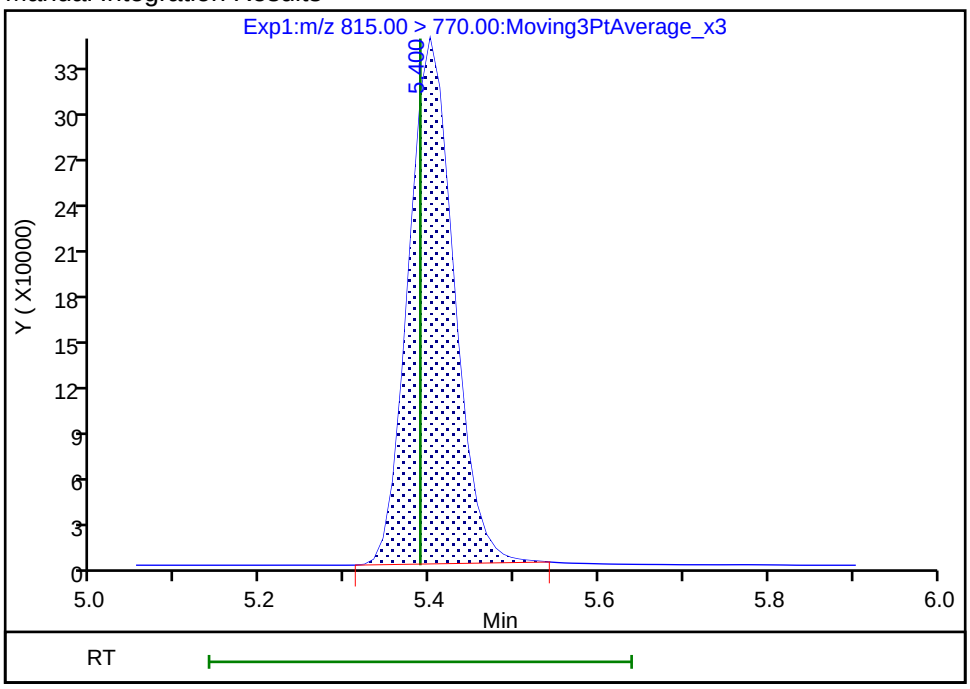
Processing Integration Results

RT: 5.40
Area: 1303283
Amount: 1.362989
Amount Units: ng/ml



Manual Integration Results

RT: 5.40
Area: 1286390
Amount: 1.345322
Amount Units: ng/ml



Reviewer: deannd, 06-May-2022 08:18:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: Lab Sample ID: LCS 200-180717/2-A

Matrix: Water Lab File ID: PA220613A07.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 06/13/2022 08:55

Sample wt/vol: 250(mL) Date Analyzed: 06/13/2022 17:58

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 180744 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
375-22-4	Perfluorobutanoic acid (PFBA)	39.9		5.0	
2706-90-3	Perfluoropentanoic acid (PFPeA)	39.8		2.0	
307-24-4	Perfluorohexanoic acid (PFHxA)	40.3		2.0	
375-85-9	Perfluoroheptanoic acid (PFHpA)	41.1		2.0	
335-67-1	Perfluorooctanoic acid (PFOA)	41.0		2.0	
375-95-1	Perfluorononanoic acid (PFNA)	41.7		2.0	
335-76-2	Perfluorodecanoic acid (PFDA)	39.2		2.0	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	41.9		2.0	
307-55-1	Perfluorododecanoic acid (PFDoA)	35.7		2.0	
72629-94-8	Perfluorotridecanoic acid (PFTriA)	39.9		2.0	
376-06-7	Perfluorotetradecanoic acid (PFTeA)	35.1		2.0	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	34.8		2.0	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	36.3		2.0	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	39.3		2.0	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	37.6		2.0	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	37.8		2.0	
754-91-6	Perfluorooctanesulfonamide (FOSA)	38.5		2.0	
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	38.4		5.0	
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	39.0		5.0	
27619-97-2	6:2 FTS	41.8		5.0	
39108-34-4	8:2 FTS	39.9		2.0	

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: Lab Sample ID: LCS 200-180717/2-A

Matrix: Water Lab File ID: PA220613A07.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 06/13/2022 08:55

Sample wt/vol: 250(mL) Date Analyzed: 06/13/2022 17:58

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 180744 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	81		50-150
STL00992	13C4 PFBA	114		50-150
STL01893	13C5 PFPeA	112		50-150
STL00993	13C2 PFHxA	105		50-150
STL01892	13C4 PFHpA	100		50-150
STL00990	13C4 PFOA	97		50-150
STL00995	13C5 PFNA	96		50-150
STL00996	13C2 PFDA	96		50-150
STL00997	13C2 PFUnA	95		50-150
STL00998	13C2 PFDoA	92		50-150
STL02116	13C2 PFTeDA	90		50-150
STL02337	13C3 PFBS	100		50-150
STL00994	18O2 PFHxS	92		50-150
STL00991	13C4 PFOS	86		50-150
STL02118	d3-NMeFOSAA	120		50-150
STL02117	d5-NEtFOSAA	117		50-150
STL02279	M2-6:2 FTS	91		50-150
STL02280	M2-8:2 FTS	93		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d
Lims ID: LCS 200-180717/2-A
Client ID:
Sample Type: LCS
Inject. Date: 13-Jun-2022 17:58:04 ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS 200-180717/2-A
Misc. Info.: 200-0051257-007 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 14-Jun-2022 14:34:58 Calib Date: 05-May-2022 15:54:29
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1636

First Level Reviewer: khanphomeea Date: 14-Jun-2022 10:04:05
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.085	2.085	0.0	0.599	2047633	1.43		114	9882	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.085	2.093	-0.008	1.000	1542588	1.00		99.8	221	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.400	0.0	0.689	1532706	1.40		112	3212	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.400	2.400	0.0	1.000	1242747	0.99		99.4	49.3	M
D 47 13C3 PFBS										
301.90 > 80.00	2.414	2.427	-0.013	0.693	1850560	1.16		100	285904	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.414	2.427	-0.013	1.000	1511055	0.8708	Target=2.15	98.5	1479	
298.90 > 99.00	2.414	2.427	-0.013	1.000	706525		2.14(1.07-3.22)		481	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.713	2.725	-0.012	0.779	145192	1.10		94.5	113	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.713	2.725	-0.012	1.000	307458	0.9847		105	1199	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.750	2.762	-0.012	0.790	1466212	1.31		105	2763	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.750	2.762	-0.012	1.000	1274424	1.01	Target=12.59	101	228	M
313.00 > 119.00	2.750	2.762	-0.012	1.000	95735		13.31(6.29-18.88)		147	
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.762	2.762	0.0	0.885	1370492	0.9716	Target=2.96	104	1270	M
349.00 > 99.00	2.762	2.762	0.0	0.885	457019		3.00(1.48-4.44)		660	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.859	2.871	-0.012	0.821	240897	1.25		100	1700	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.859	2.871	-0.012	1.000	206186	0.9804		98.0	769	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.121	3.121	0.0	0.896	1350566	1.09		91.8	1927	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.121	3.121	0.0	1.000	1145689	0.9076	Target=3.53	99.7	1390	M
399.00 > 99.00	3.121	3.121	0.0	1.000	336817		3.40(1.76-5.29)		447	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.121	3.132	-0.011	0.896	1516886	1.25		100	2408	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.121	3.132	-0.011	1.000	1259675	1.03	Target=3.75	103	307	M
363.00 > 169.00	3.121	3.132	-0.011	1.000	337207		3.74(1.87-5.62)		355	M
77 DONA										M
377.00 > 251.00	3.165	3.165	0.0	0.835	3135144	1.16	Target=2.77	123	1936	M
377.00 > 85.00	3.165	3.165	0.0	0.835	1098958		2.85(1.38-4.15)		1301	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.465	3.474	-0.009	0.914	997515	0.9824	Target=4.90	103	1673	
449.00 > 99.00	3.465	3.474	-0.009	0.914	206368		4.83(2.45-7.35)		712	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.474	3.474	0.0	0.998	219238	1.08		91.0	536	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.474	3.474	0.0	1.000	303673	1.05		110	149	M
* 62 13C2 PFOA										M
415.00 > 370.00	3.483	3.482	0.001		1689840	1.25			2131	M
D 14 13C4 PFOA										M
417.00 > 372.00	3.483	3.482	0.001	1.000	1548582	1.22		97.3	2341	M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.483	3.482	0.001	1.000	1421397	1.02	Target=2.68	102	125	M
413.00 > 169.00	3.483	3.482	0.001	1.000	520562		2.73(1.34-4.02)		922	M
D 18 13C4 PFOS										M
503.00 > 80.00	3.793	3.802	-0.009	1.089	1009479	1.03		86.4	1937	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.802	3.802	0.0	1.003	852611	0.9451	Target=4.47	102	522	M
499.00 > 99.00	3.793	3.802	-0.009	1.000	184224		4.63(2.24-6.71)		569	M
D 19 13C5 PFNA										M
468.00 > 423.00	3.812	3.822	-0.010	1.095	1658454	1.20		95.9	1776	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.812	3.822	-0.010	1.000	1336264	1.04	Target=7.74	104	311	
463.00 > 169.00	3.812	3.822	-0.010	1.000	160041		8.35(3.87-11.61)		872	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.960	3.969	-0.009	1.044	1524940	1.02		110	3130	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.093	4.093	0.0	1.079	654886	0.9585	Target=2.49	99.8	1949	
549.00 > 99.00	4.093	4.093	0.0	1.079	266818		2.45(1.24-3.73)		995	
D 23 13C2 PFDA										M
515.00 > 470.00	4.116	4.127	-0.011	1.182	1593142	1.20		95.7	2048	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.116	4.127	-0.011	1.000	1331819	0.9808	Target=9.31	98.1	555	M
513.00 > 169.00	4.116	4.127	-0.011	1.000	142608		9.34(4.65-13.96)		512	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.127	4.127	0.0	1.000	252093	1.00		104	1092	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.127	4.127	0.0	1.185	272029	1.12		93.2	906	
D 21 13C8 FOSA										M
506.00 > 78.00	4.184	4.195	-0.011	1.201	1486278	1.01		81.2	1732	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.196	4.195	0.001	1.003	1160597	0.9619		96.2	1802	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.261	4.261	0.0	1.224	265939	1.50		120	808	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.261	4.273	-0.012	1.000	185621	0.9594		95.9	424	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.365	4.365	0.0	1.151	489813	0.9401	Target=2.56	97.5	2109	
599.00 > 99.00	4.365	4.365	0.0	1.151	187267		2.62(1.28-3.84)		1647	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.388	4.387	0.001	1.000	1097916	1.05	Target=9.41	105	575	M
563.00 > 169.00	4.388	4.387	0.001	1.000	115231		9.53(4.70-14.11)		1000	
D 30 13C2 PFUnA										
565.00 > 520.00	4.388	4.387	0.001	1.260	1272434	1.19		95.2	2612	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.399	4.398	0.001	1.263	252390	1.46		117	1382	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.399	4.410	-0.011	1.000	184794	0.9756		97.6	884	M
66 11-Chloroeicosafluoro-3-oxaundec										M
631.00 > 451.00	4.491	4.491	0.0	1.184	1984560	0.9623		102	1496	M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.622	4.622	0.0	1.000	970889	0.8927	Target=6.95	89.3	140	M
613.00 > 169.00	4.622	4.622	0.0	1.000	141958		6.84(3.48-10.43)		1017	
D 36 13C2 PFDoA										M
615.00 > 570.00	4.622	4.633	-0.011	1.327	1318073	1.15		92.3	1917	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.643	4.654	-0.011	1.125	120420	0.9578		99.4	839	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.804	4.803	0.001	1.267	211465	0.8932	Target=0.55	92.3	1207	M
699.00 > 99.00	4.804	4.803	0.001	1.267	403200		0.52(0.27-0.82)		2316	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.837	4.848	-0.011	1.046	924690	1.00	Target=4.44	99.8	153	M
663.00 > 169.00	4.837	4.848	-0.011	1.046	190400		4.86(2.22-6.66)		1123	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.032	5.032	0.0	1.000	113745	0.8786	Target=0.96	87.9	1245	
713.00 > 219.00	5.032	5.032	0.0	1.000	122041		0.93(0.48-1.44)		1306	
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.032	5.042	-0.010	1.445	1047329	1.12		89.8	2471	M

Report Date: 14-Jun-2022 14:35:09 Chrom Revision: 2.3 18-May-2022 20:00:04
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.389	5.389	0.0	1.547	1165633	1.20		96.4	2500	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.389	5.400	-0.011	1.000	863883	1.04	Target=4.90	104	184	M
813.00 > 169.00	5.389	5.400	-0.011	1.000	170627		5.06(2.45-7.36)		1065	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.722	5.731	-0.009	1.062	588348	0.9057	Target=4.81	90.6	140	M
913.00 > 169.00	5.722	5.731	-0.009	1.062	110682		5.32(2.40-7.21)		478	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Report Date: 14-Jun-2022 14:35:09 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d

Injection Date: 13-Jun-2022 17:58:04 Instrument ID: LC812

Lims ID: LCS 200-180717/2-A

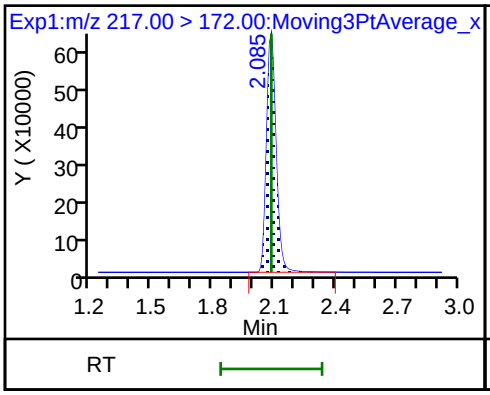
Client ID:

Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7

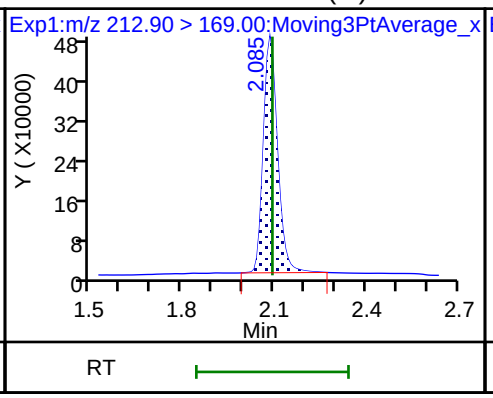
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

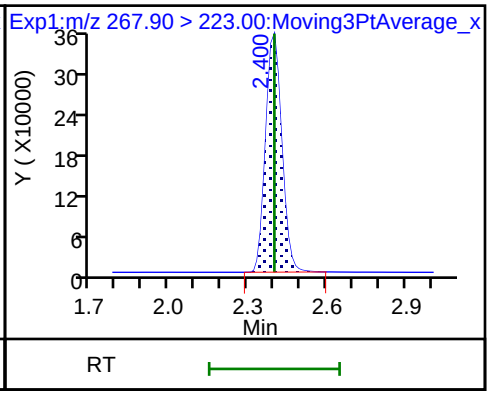
D 1 13C4 PFBA



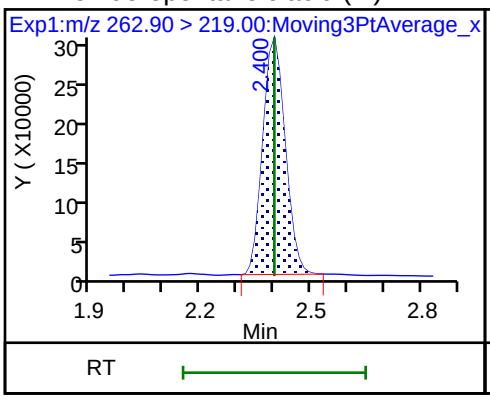
2 Perfluorobutanoic acid (M)



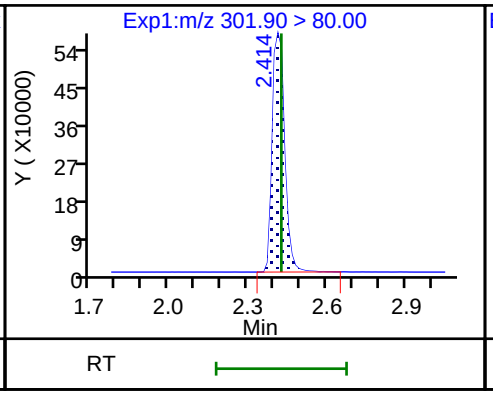
D 3 13C5 PFPeA



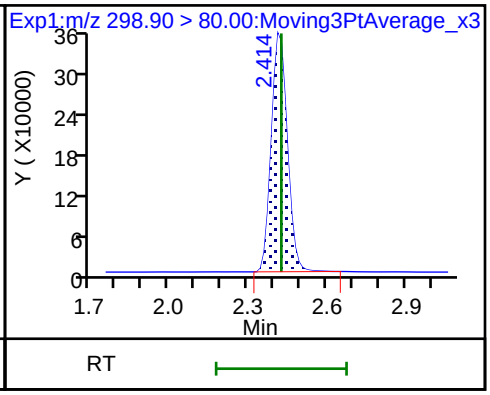
4 Perfluoropentanoic acid (M)



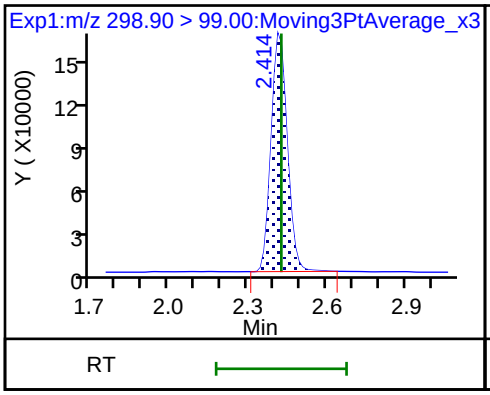
D 47 13C3 PFBS



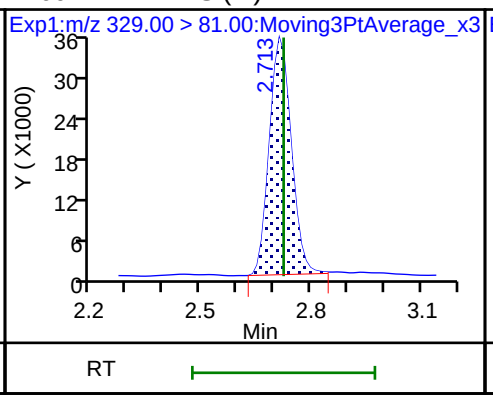
5 Perfluorobutanesulfonic acid



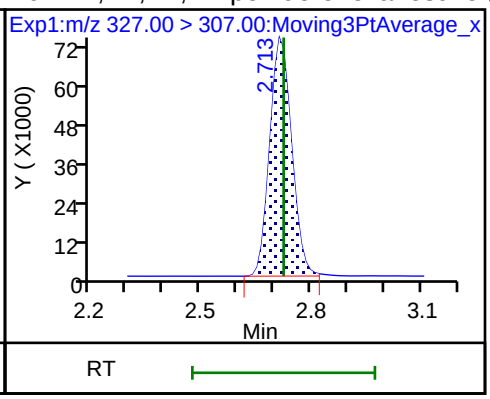
5 Perfluorobutanesulfonic acid



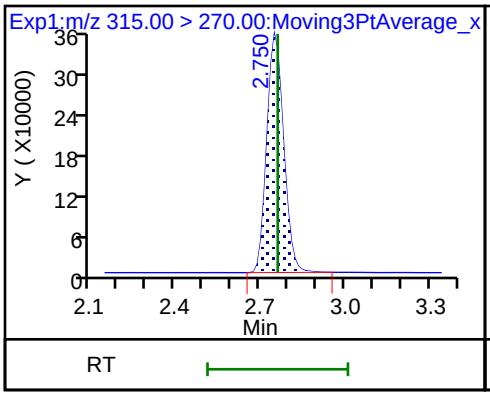
D 60 M2-4:2 FTS (M)



61 1H,1H,2H,2H-perfluorohexanesulfo (M)



D 7 13C2 PFHxA



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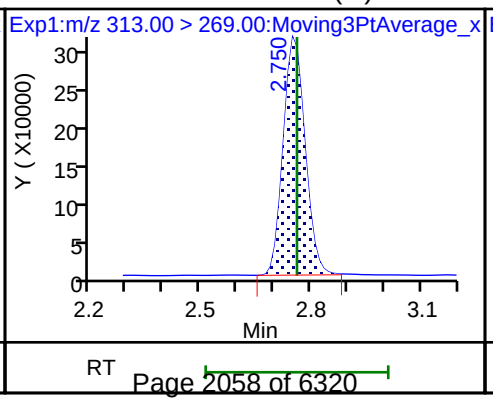
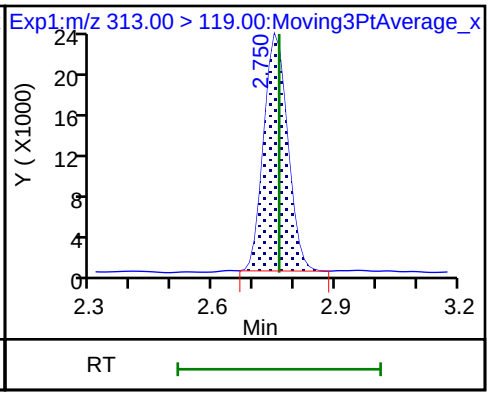
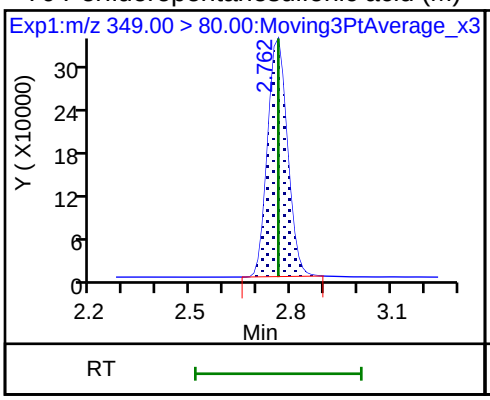


6 Perfluorohexanoic acid



70 Perfluoropentanesulfonic acid (M)



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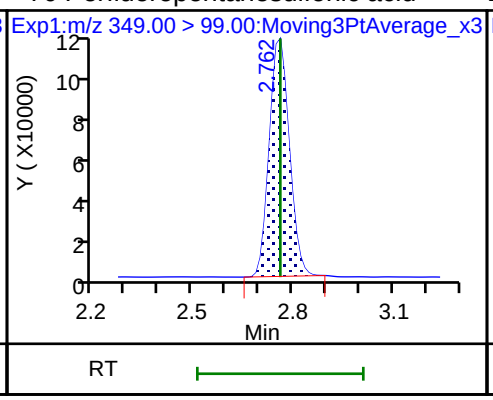
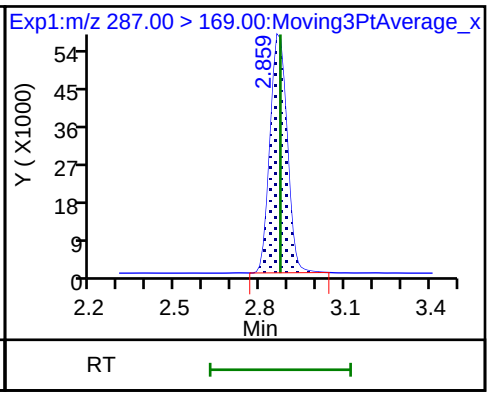
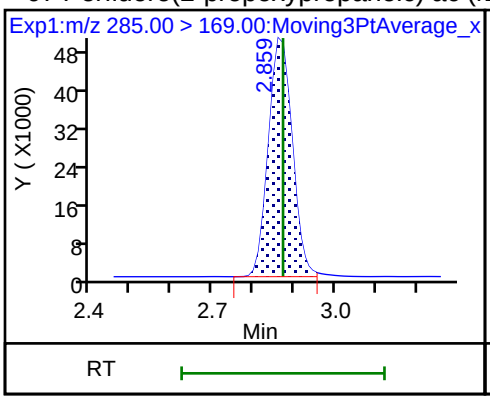


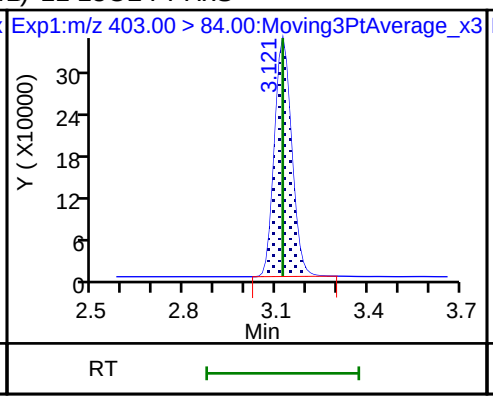
D 64 13C3 HFPO-DA



67 Perfluoro(2-propoxypropanoic) ac (M)



D 11 18O2 PFHxS



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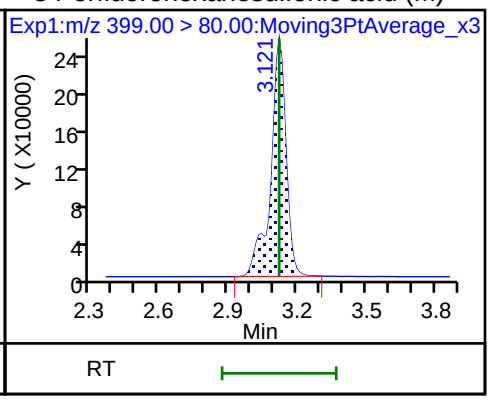

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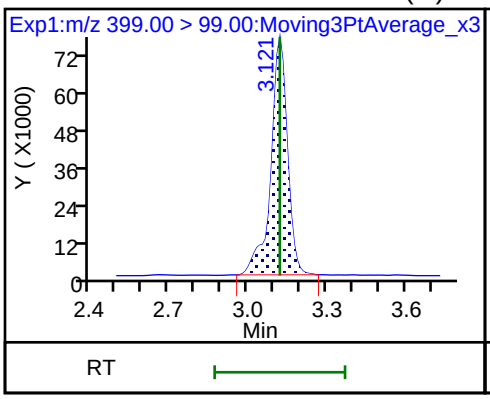
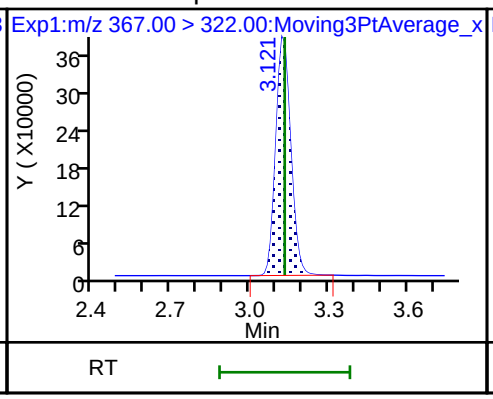
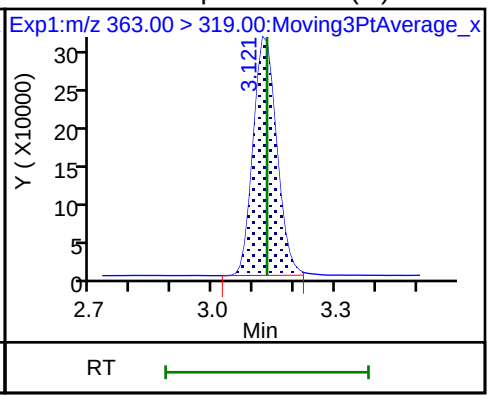


D 9 13C4 PFHpA



10 Perfluoroheptanoic acid (M)



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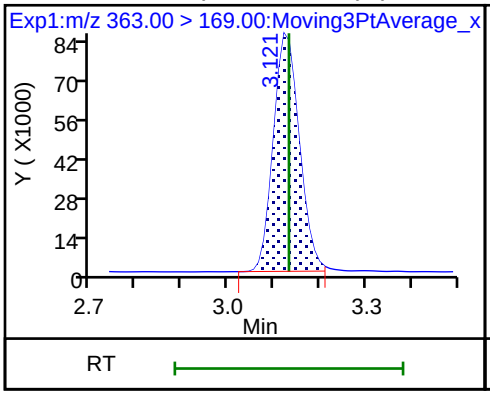
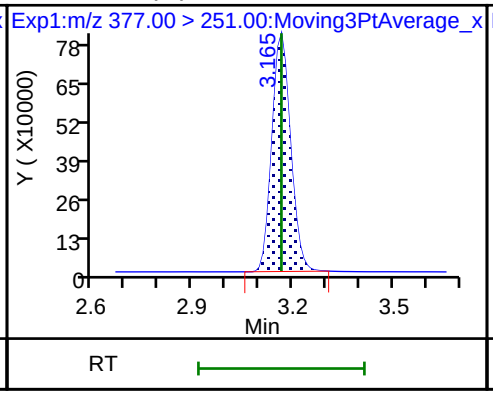


77 DONA (M)



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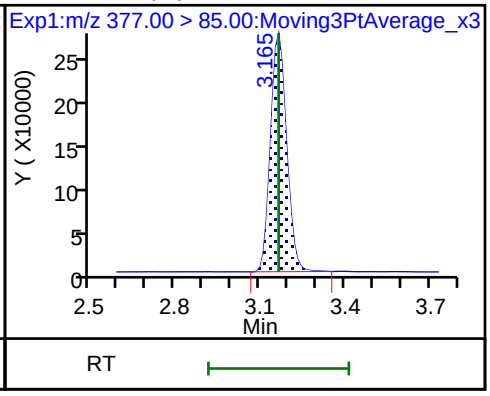
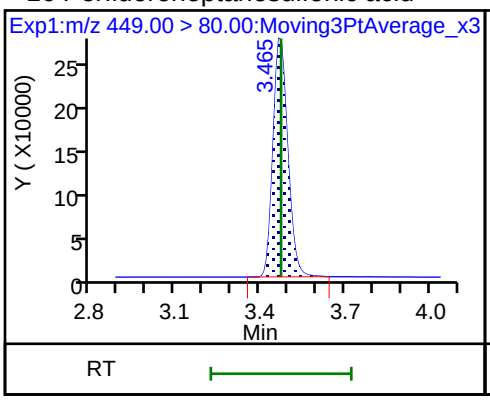
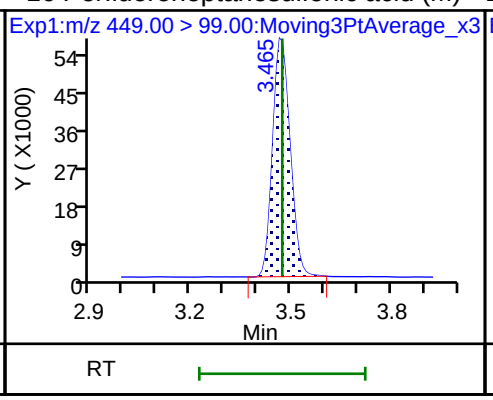


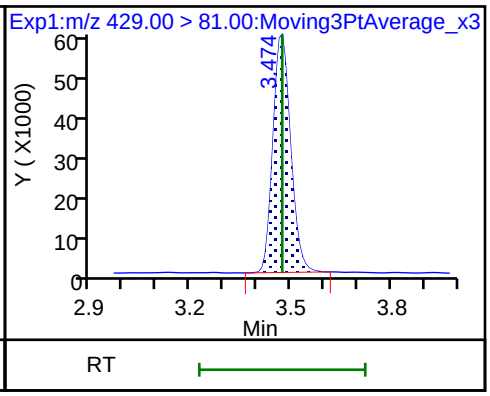
16 Perfluoroheptanesulfonic acid



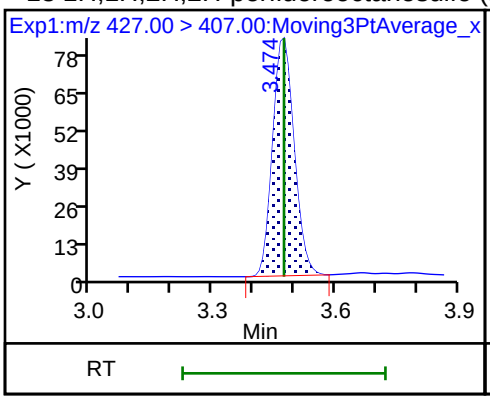
16 Perfluoroheptanesulfonic acid (M)



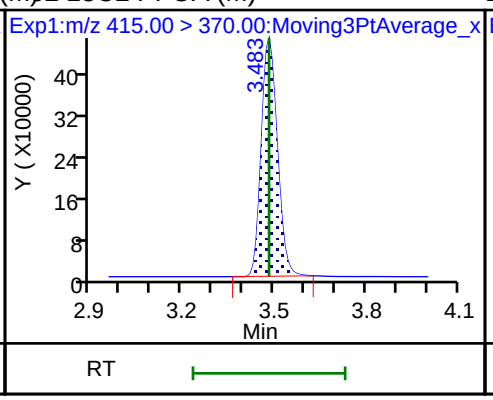
D 12 M2-6:2 FTS



13 1H,1H,2H,2H-perfluorooctanesulfo (M)



M2 13C2 PFOA (M)



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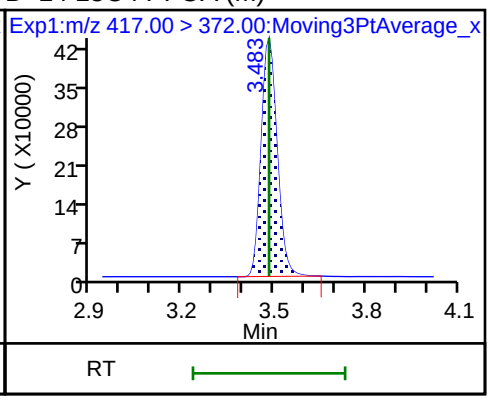
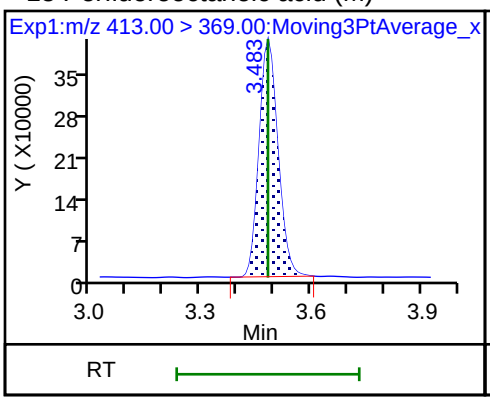
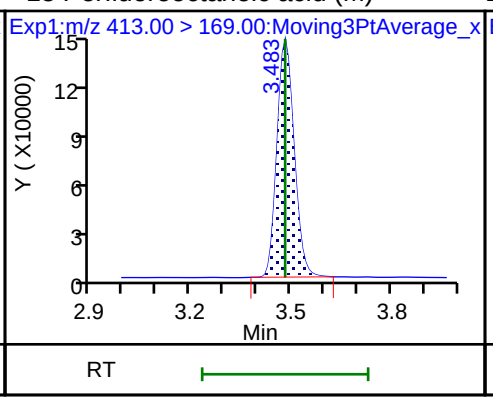


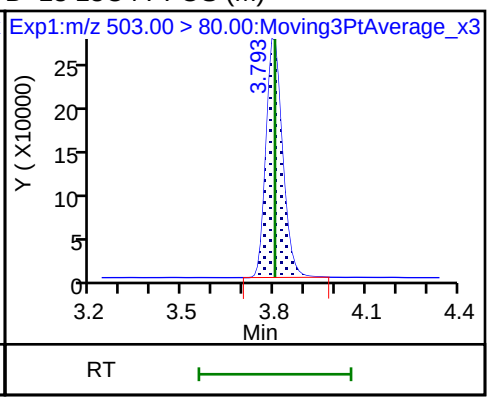
15 Perfluorooctanoic acid (M)



15 Perfluorooctanoic acid (M)



D 18 13C4 PFOS (M)



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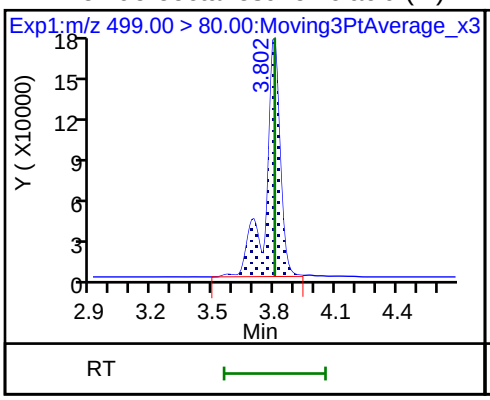

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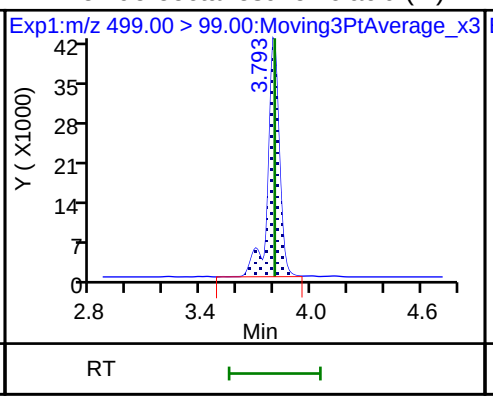
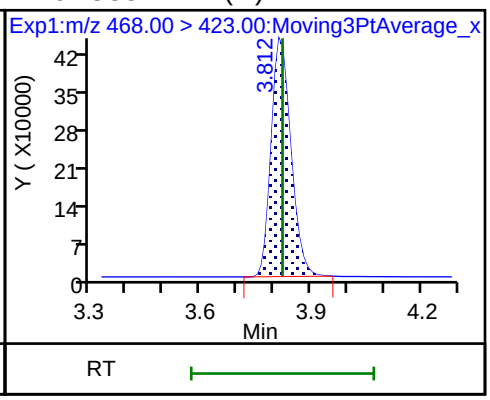
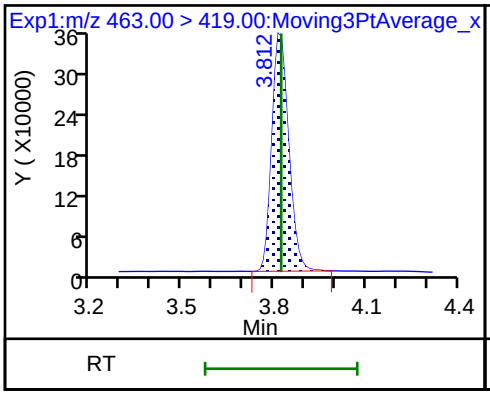


D 19 13C5 PFNA (M)



20 Perfluorononanoic acid



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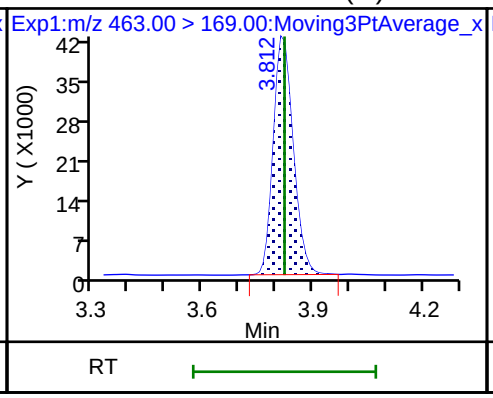
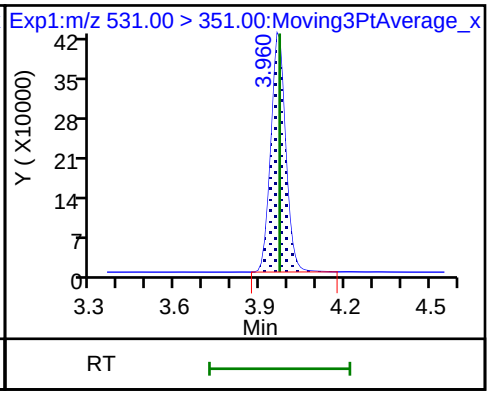
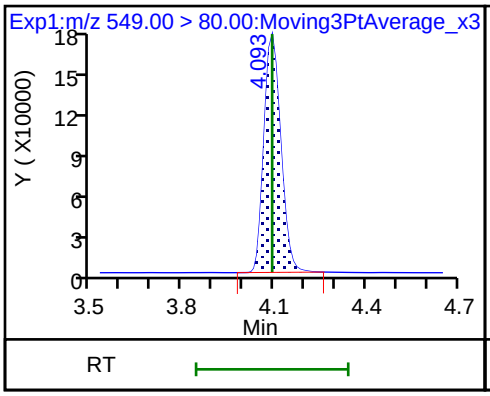


69 9-Chlorohexadecafluoro-3-oxanona (M)



68 Perfluorononanesulfonic acid



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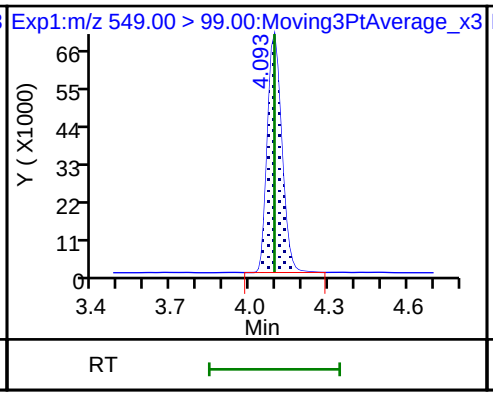
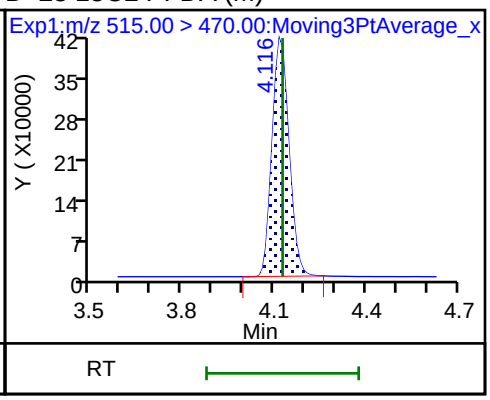
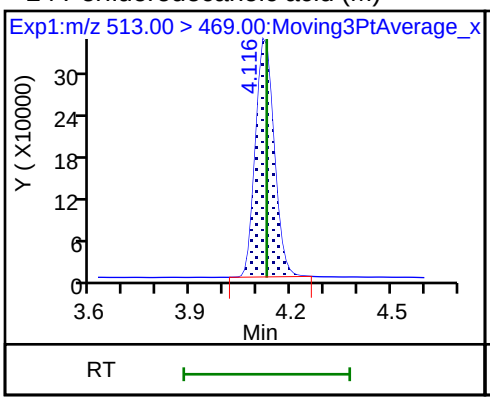


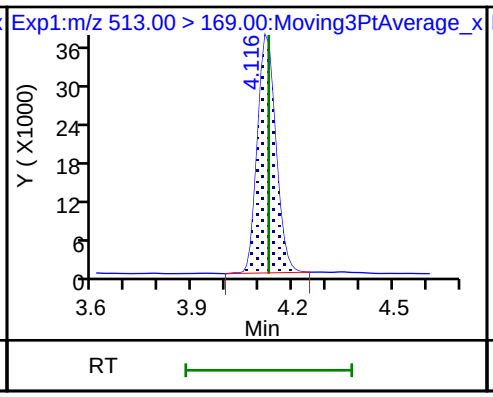
D 23 13C2 PFDA (M)



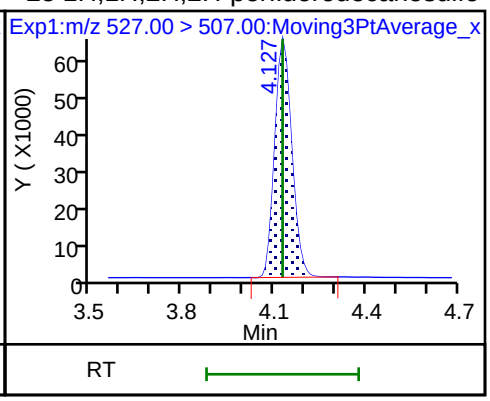
24 Perfluorodecanoic acid (M)



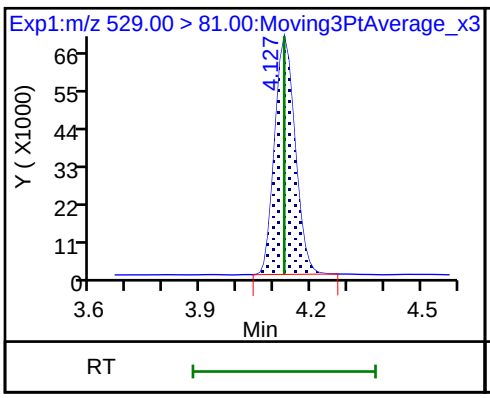
24 Perfluorodecanoic acid



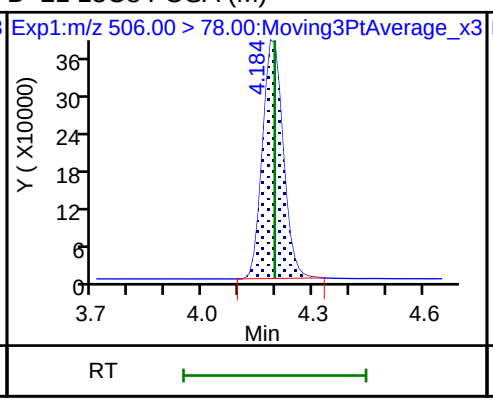
25 1H,1H,2H,2H-perfluorodecanesulfo



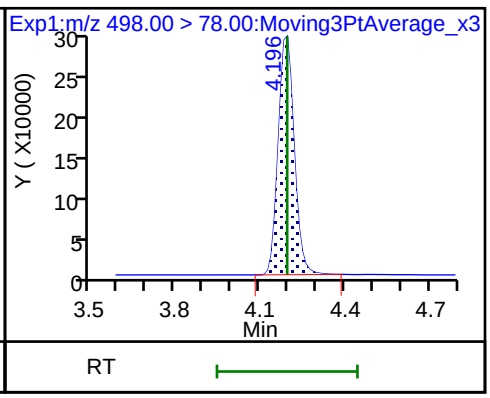
D 26 M2-8:2 FTS



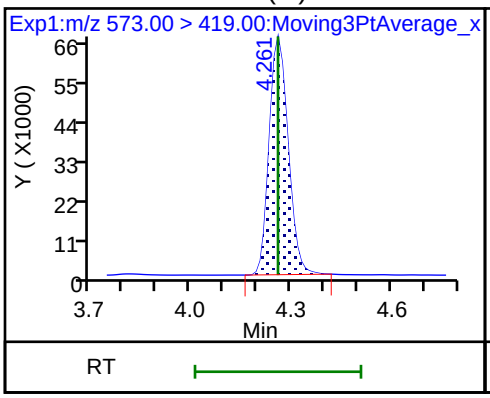
D 21 13C8 FOSA (M)



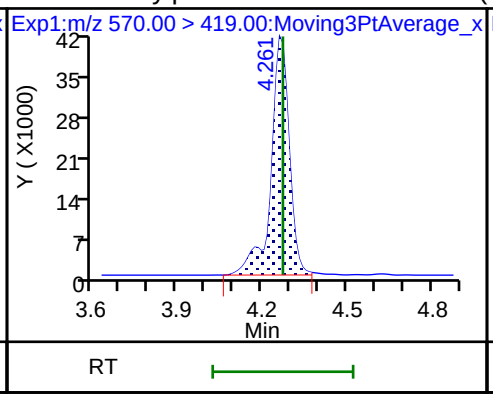
22 Perfluorooctanesulfonamide



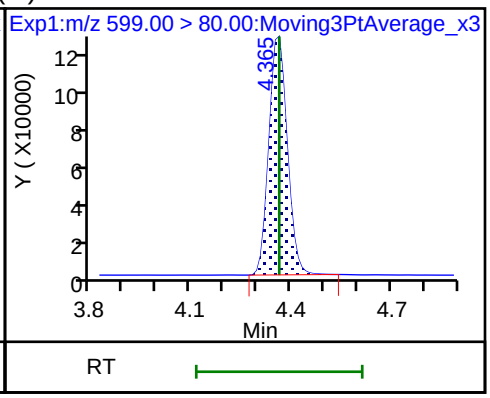
D 27 d3-NMeFOSAA (M)



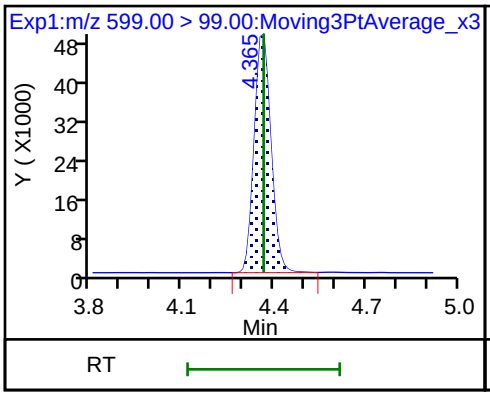
28 N-methylperfluorooctanesulfonami (M)



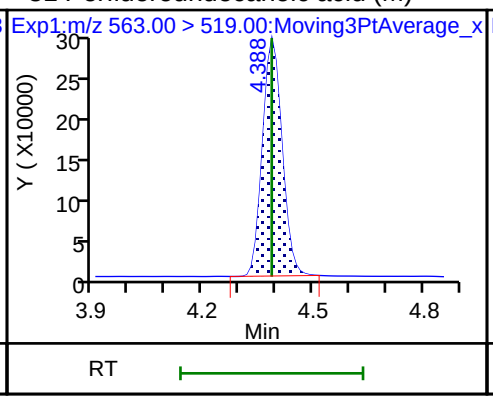
29 Perfluorodecanesulfonic acid



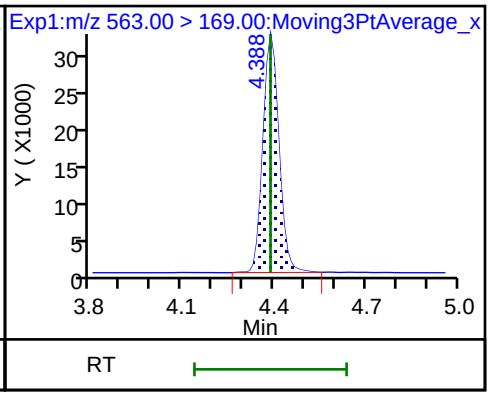
29 Perfluorodecanesulfonic acid



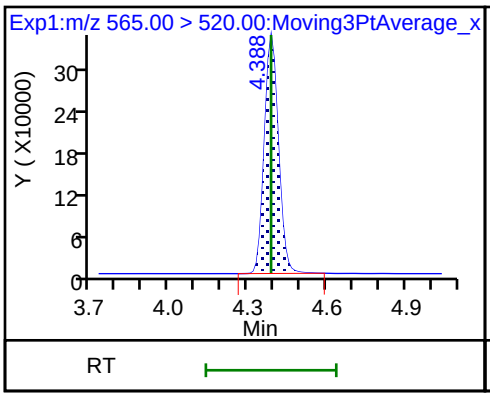
31 Perfluoroundecanoic acid (M)



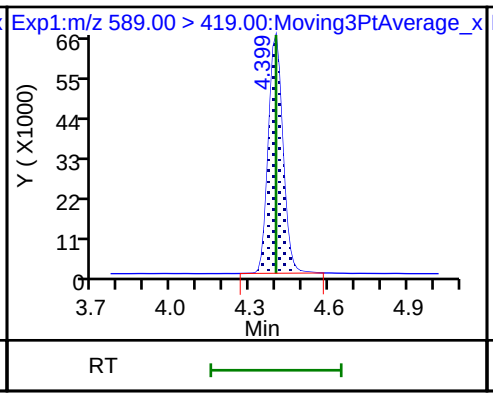
31 Perfluoroundecanoic acid



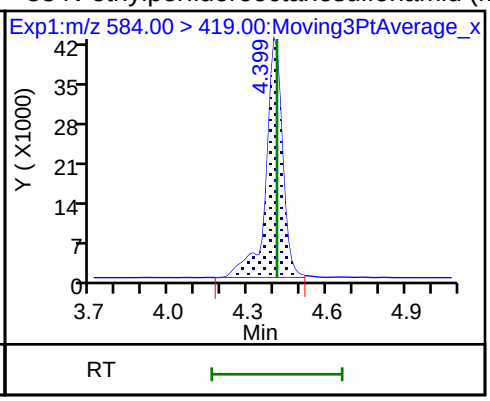
D 30 13C2 PFUnA



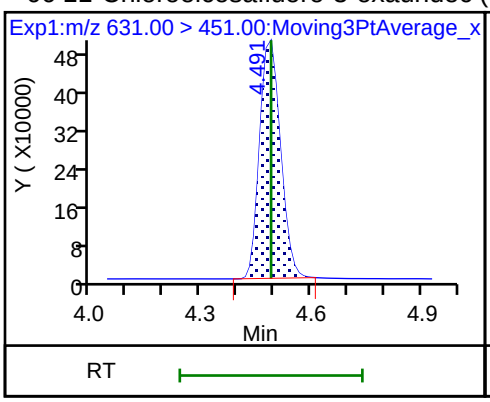
D 32 d5-NEtFOSAA



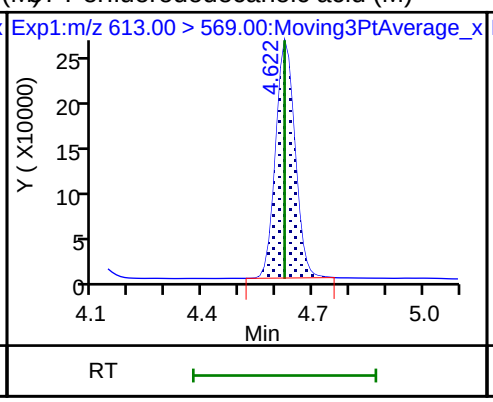
33 N-ethylperfluorooctanesulfonamid (M)



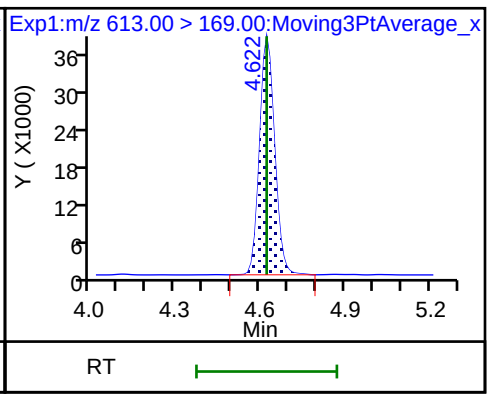
66 11-Chloroeicosafluoro-3-oxaundec (M)



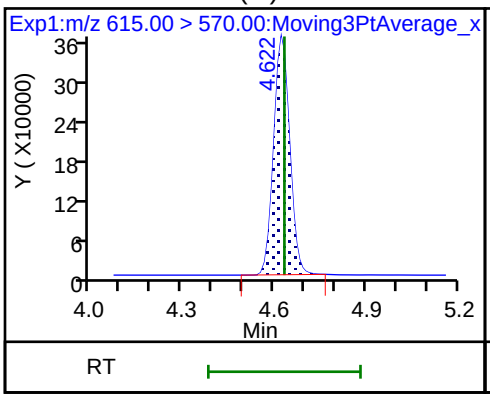
37 Perfluorododecanoic acid (M)



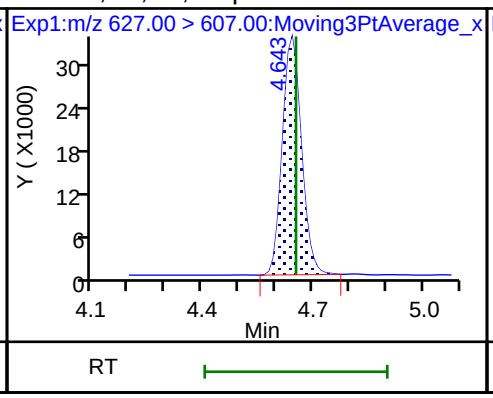
37 Perfluorododecanoic acid



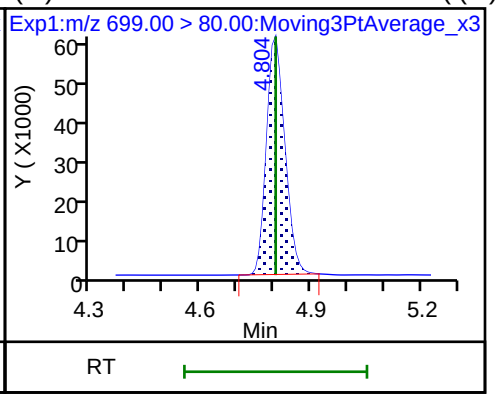
D 36 13C2 PFDoA (M)



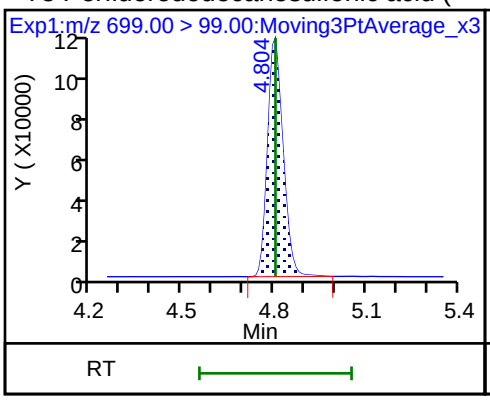
74 1H,1H,2H,2H-perfluorododecanesul (M)



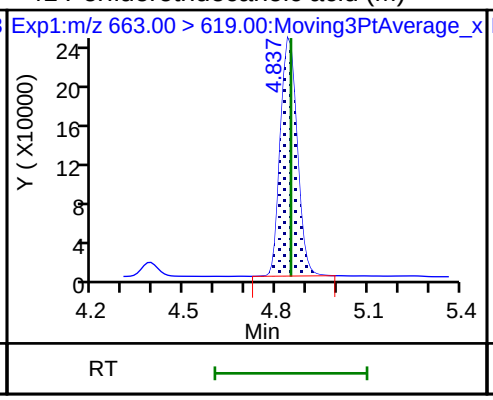
75 Perfluorododecanesulfonic acid ((M)



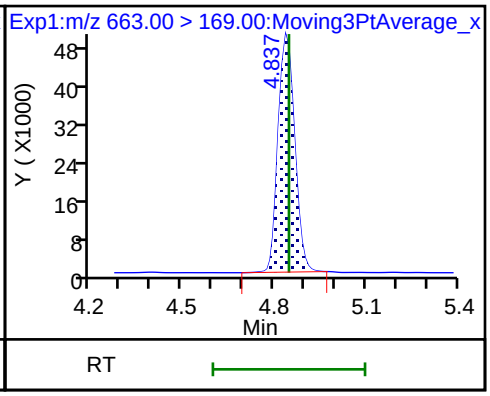
75 Perfluorododecanesulfonic acid (



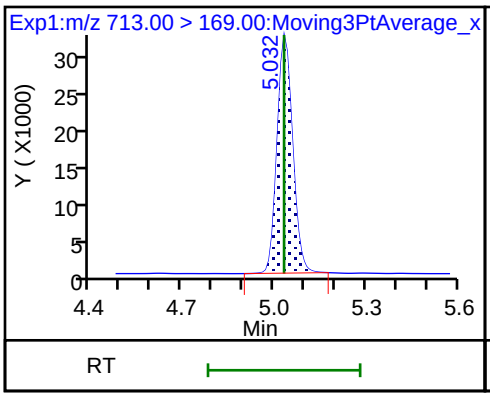
41 Perfluorotridecanoic acid (M)



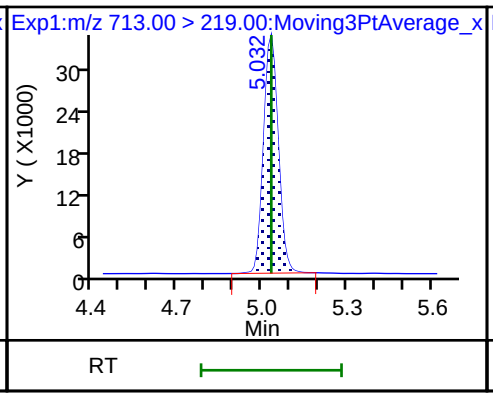
41 Perfluorotridecanoic acid



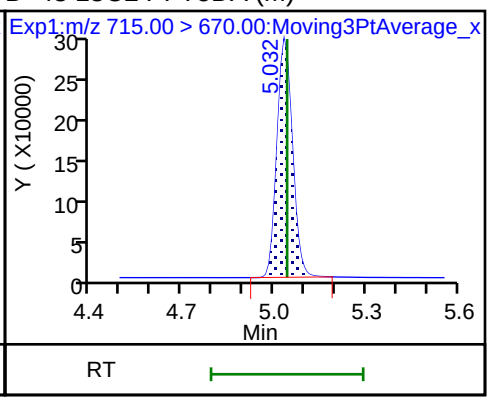
42 Perfluorotetradecanoic acid



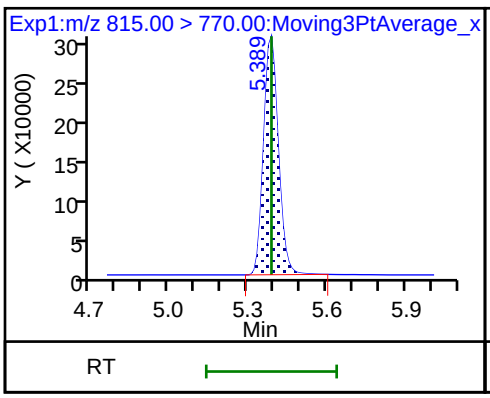
42 Perfluorotetradecanoic acid



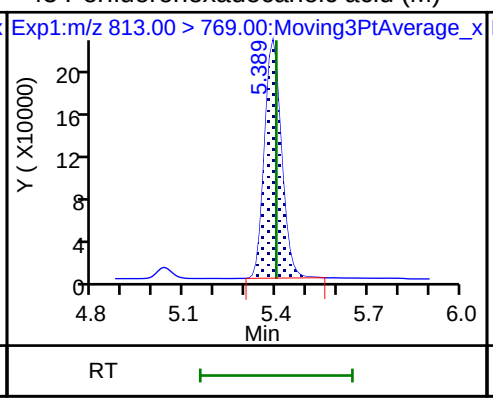
D 43 13C2 PFTeDA (M)



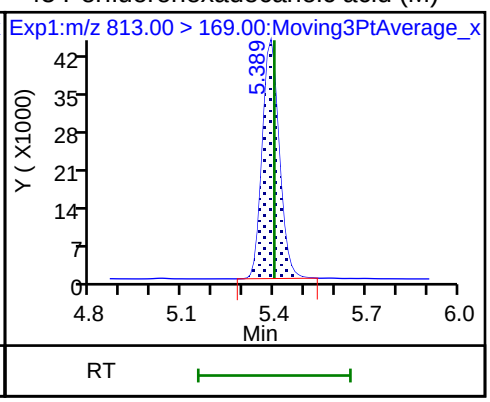
D 44 13C2 PFHxDA



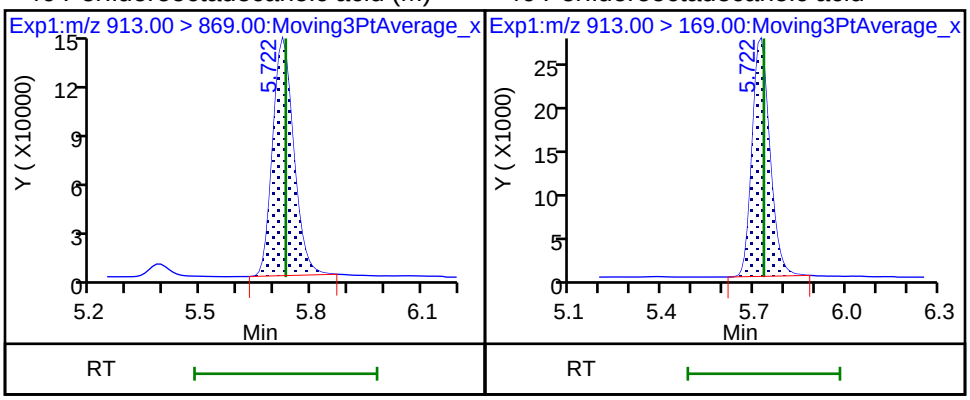
45 Perfluorohexadecanoic acid (M)



45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M) 46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins Burlington

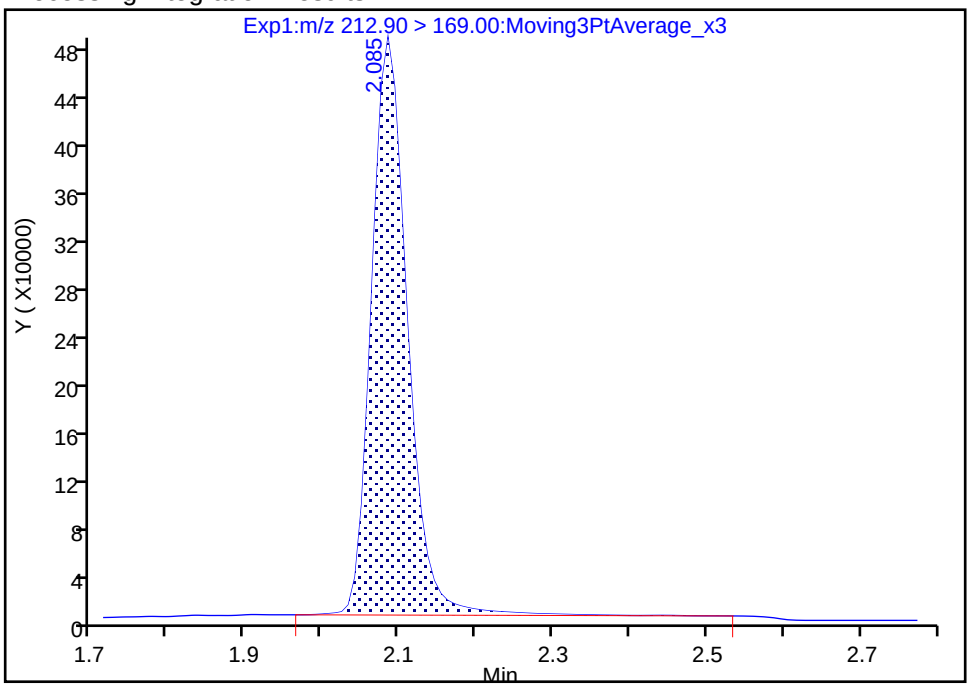
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d
Injection Date: 13-Jun-2022 17:58:04 Instrument ID: LC812
Lims ID: LCS 200-180717/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

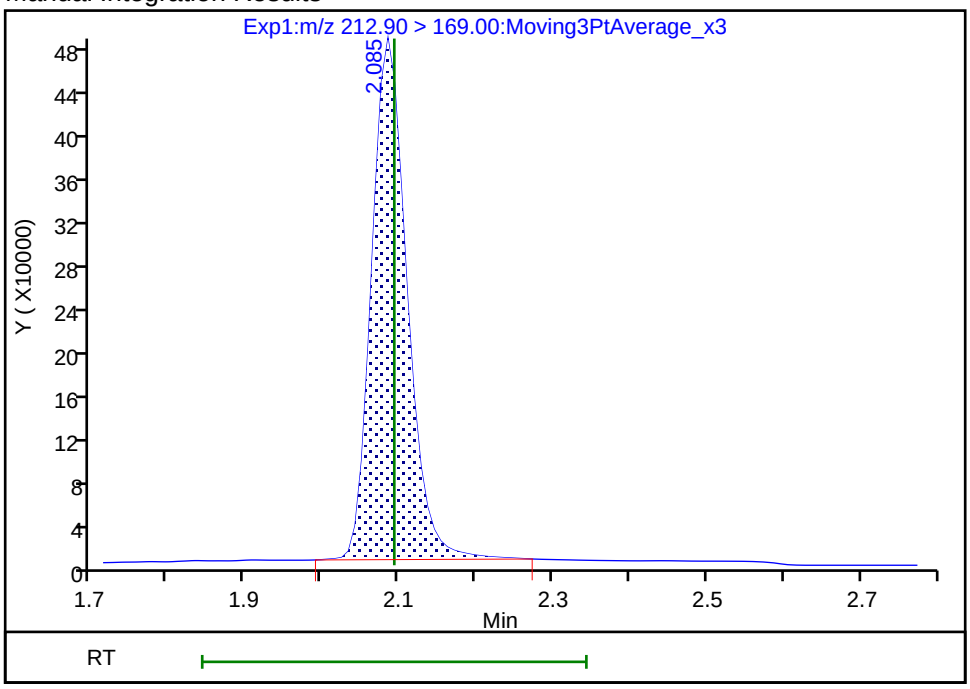
Processing Integration Results

RT: 2.09
Area: 1565732
Amount: 1.012843
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 1542588
Amount: 0.997872
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:34:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

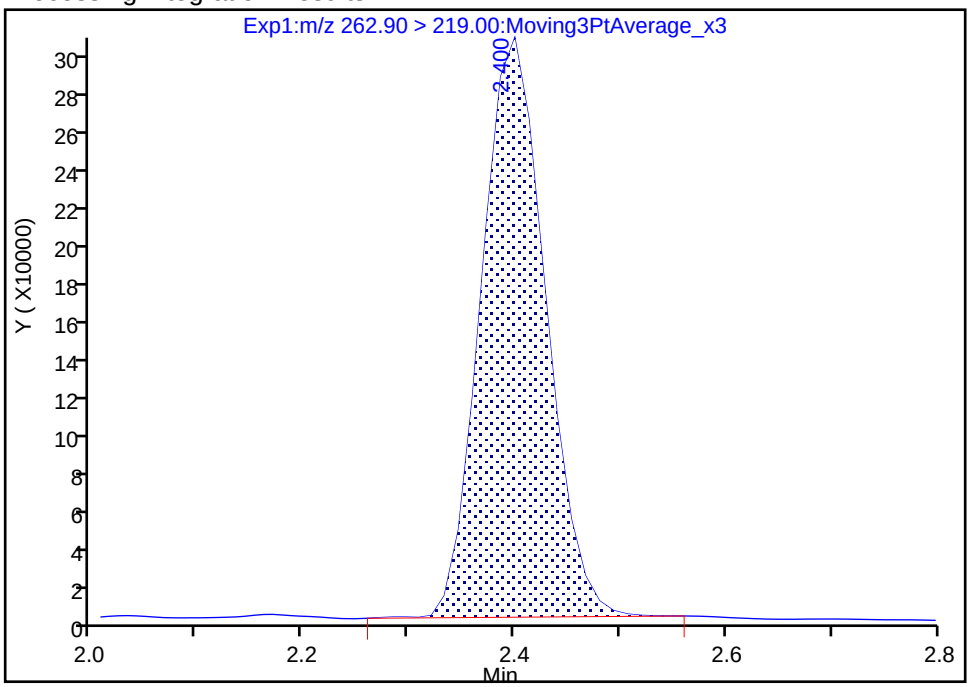
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d
Injection Date: 13-Jun-2022 17:58:04 Instrument ID: LC812
Lims ID: LCS 200-180717/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

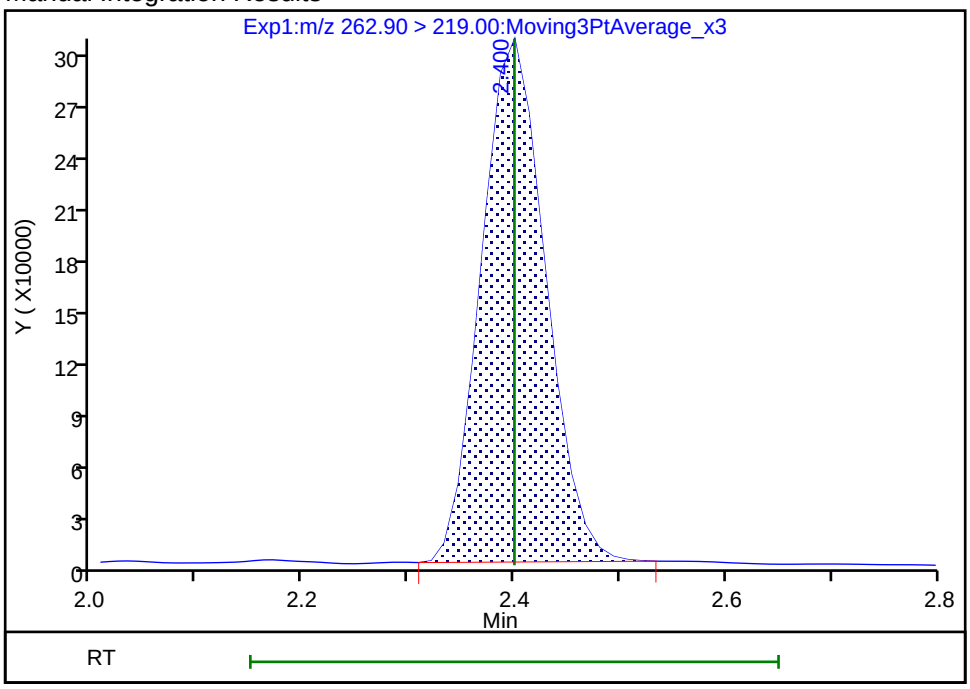
Processing Integration Results

RT: 2.40
Area: 1246562
Amount: 0.997539
Amount Units: ng/ml



Manual Integration Results

RT: 2.40
Area: 1242747
Amount: 0.994486
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:57:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

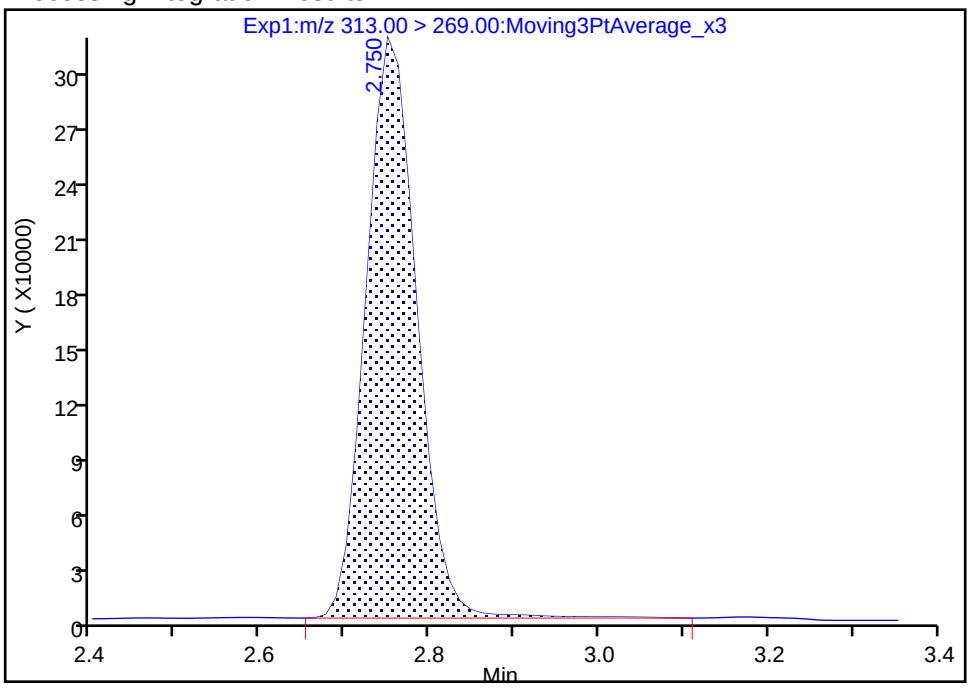
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d
Injection Date: 13-Jun-2022 17:58:04 Instrument ID: LC812
Lims ID: LCS 200-180717/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

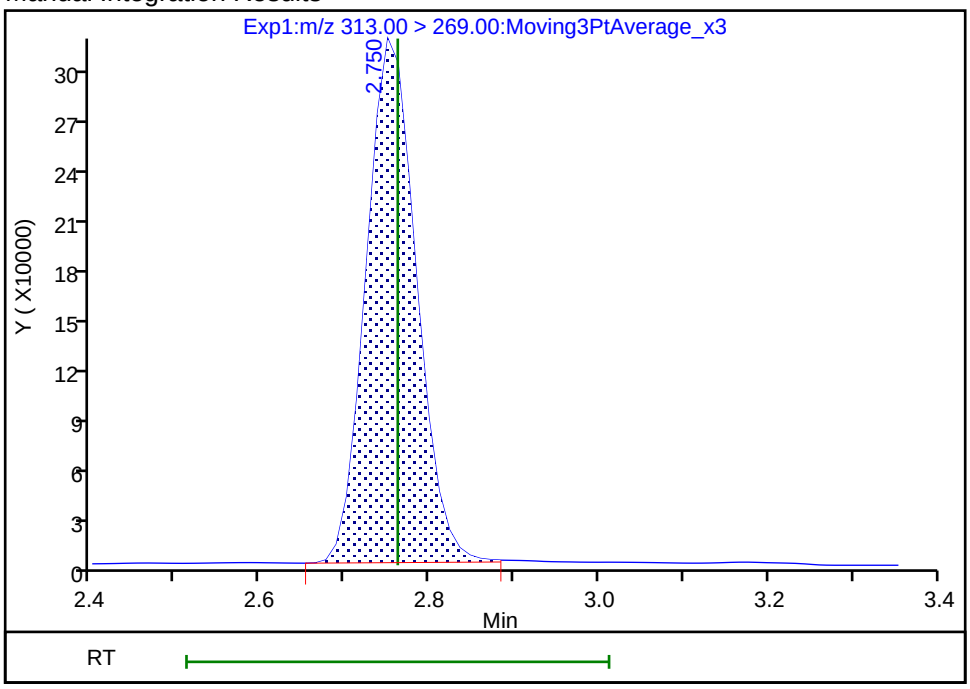
Processing Integration Results

RT: 2.75
Area: 1288957
Amount: 1.018094
Amount Units: ng/ml



Manual Integration Results

RT: 2.75
Area: 1274424
Amount: 1.006615
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 09:59:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

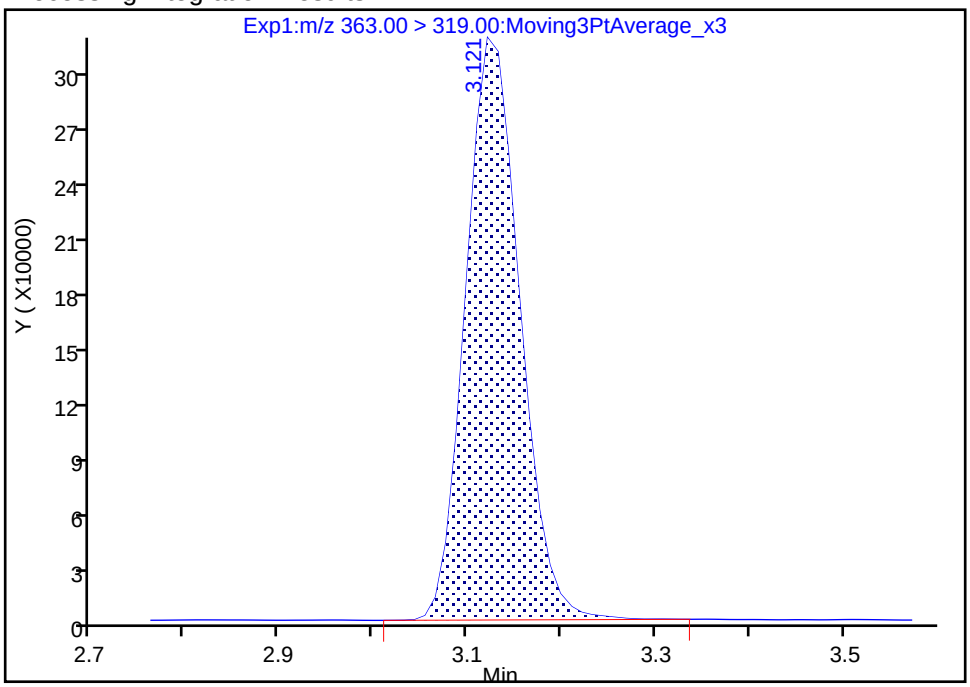
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d
Injection Date: 13-Jun-2022 17:58:04 Instrument ID: LC812
Lims ID: LCS 200-180717/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

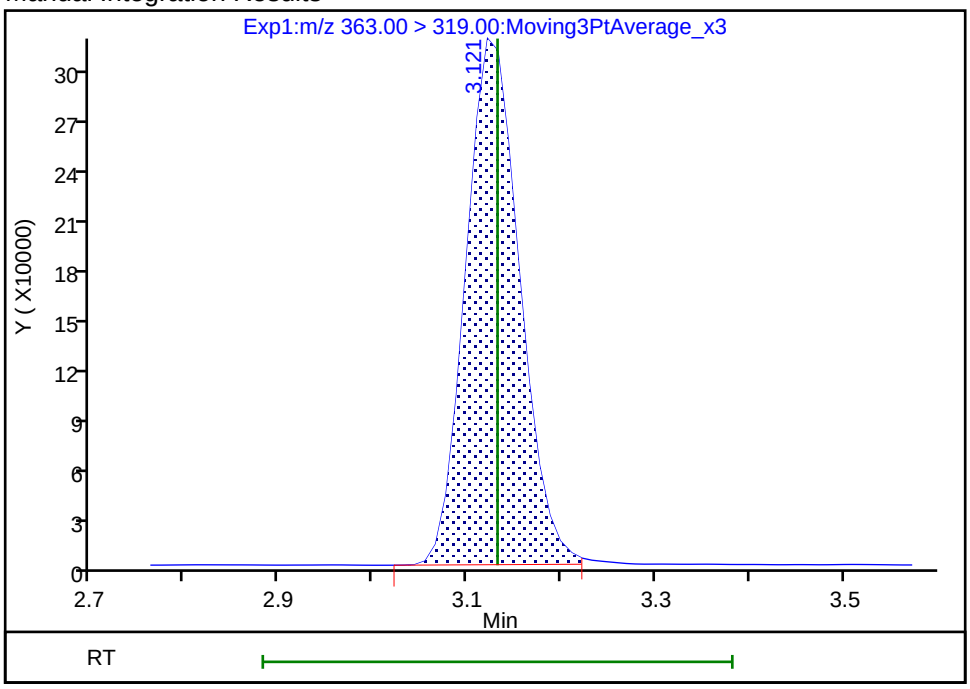
Processing Integration Results

RT: 3.12
Area: 1267370
Amount: 1.033468
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 1259675
Amount: 1.027193
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:35:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

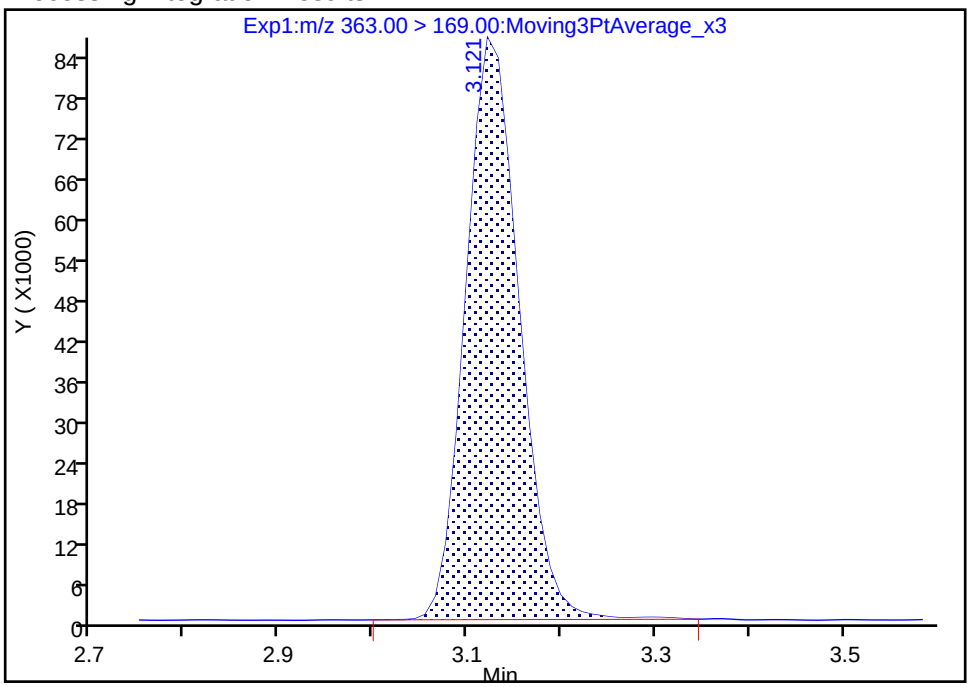
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d
Injection Date: 13-Jun-2022 17:58:04 Instrument ID: LC812
Lims ID: LCS 200-180717/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

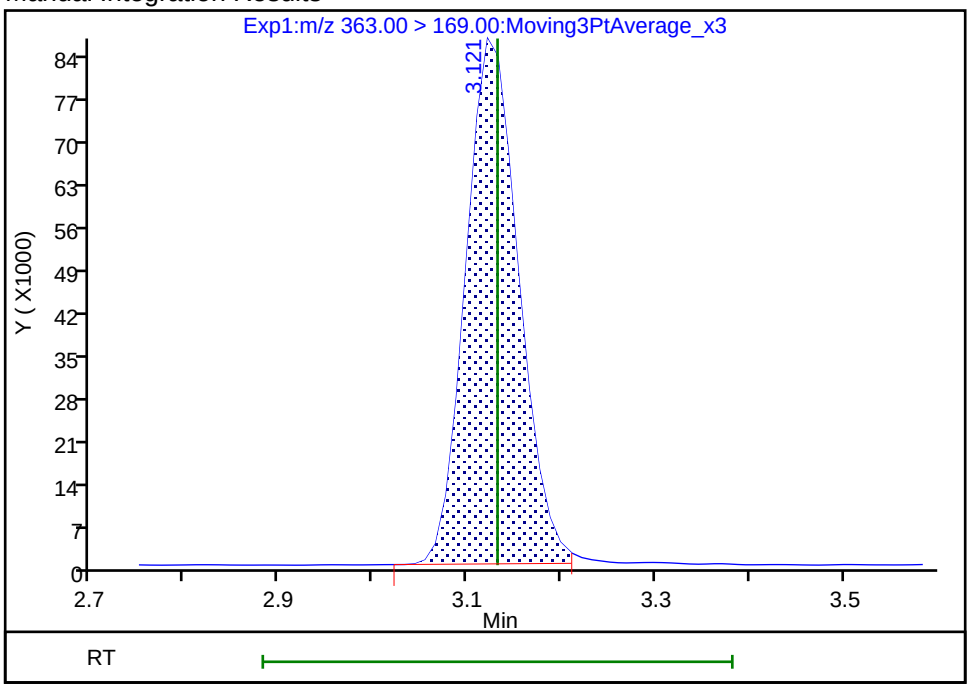
Processing Integration Results

RT: 3.12
Area: 341881
Amount: 1.033468
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 337207
Amount: 1.027193
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:35:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

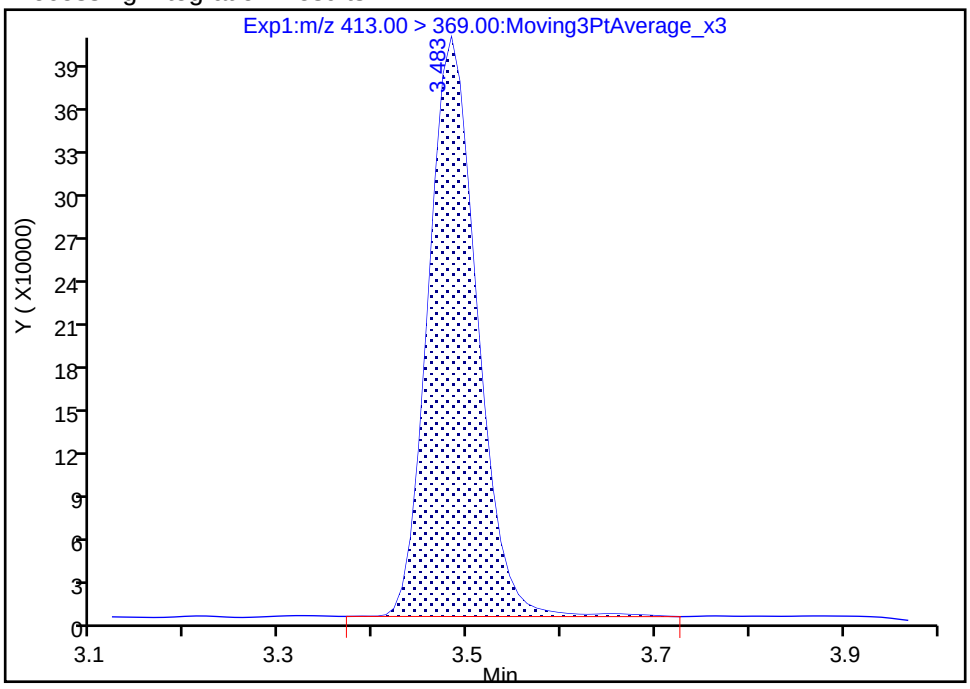
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d
Injection Date: 13-Jun-2022 17:58:04 Instrument ID: LC812
Lims ID: LCS 200-180717/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

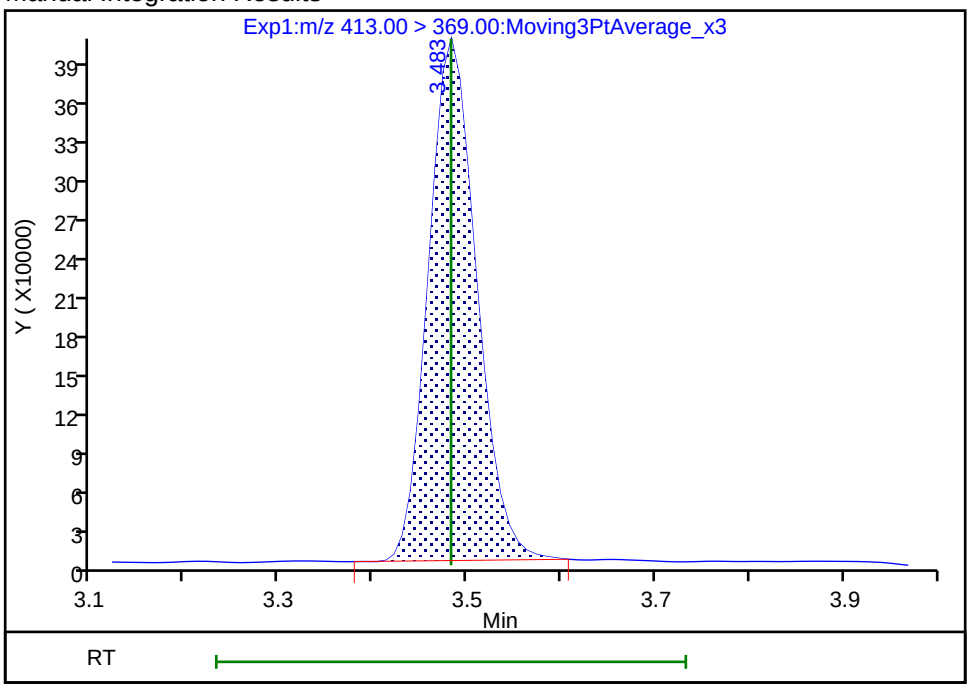
Processing Integration Results

RT: 3.48
Area: 1443589
Amount: 1.033017
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 1421397
Amount: 1.024455
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:36:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

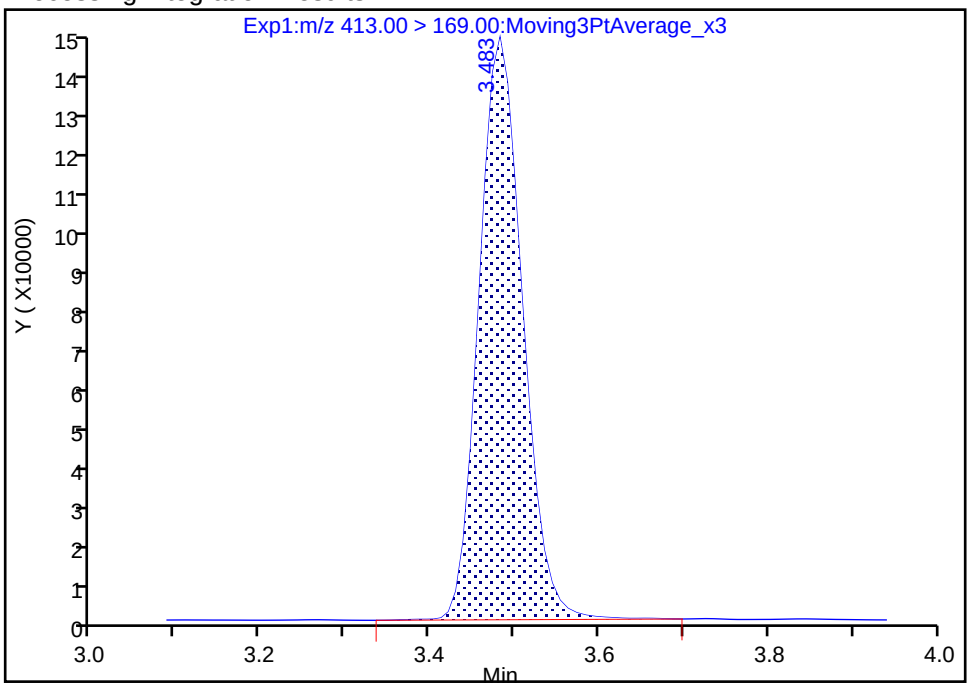
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d
Injection Date: 13-Jun-2022 17:58:04 Instrument ID: LC812
Lims ID: LCS 200-180717/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

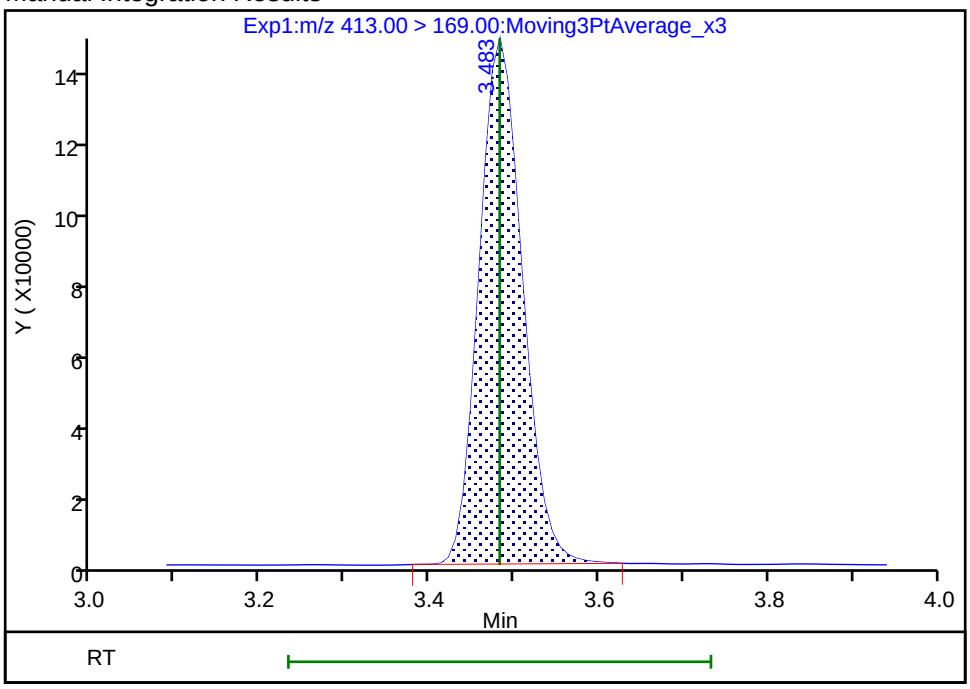
Processing Integration Results

RT: 3.48
Area: 524335
Amount: 1.033017
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 520562
Amount: 1.024455
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:36:20
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

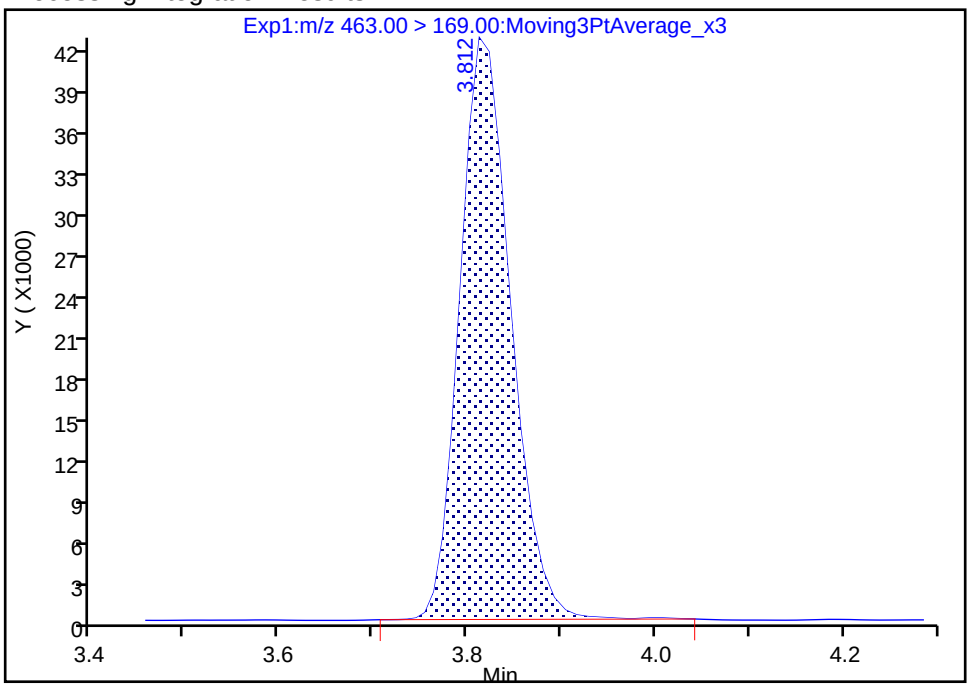
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d
Injection Date: 13-Jun-2022 17:58:04 Instrument ID: LC812
Lims ID: LCS 200-180717/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

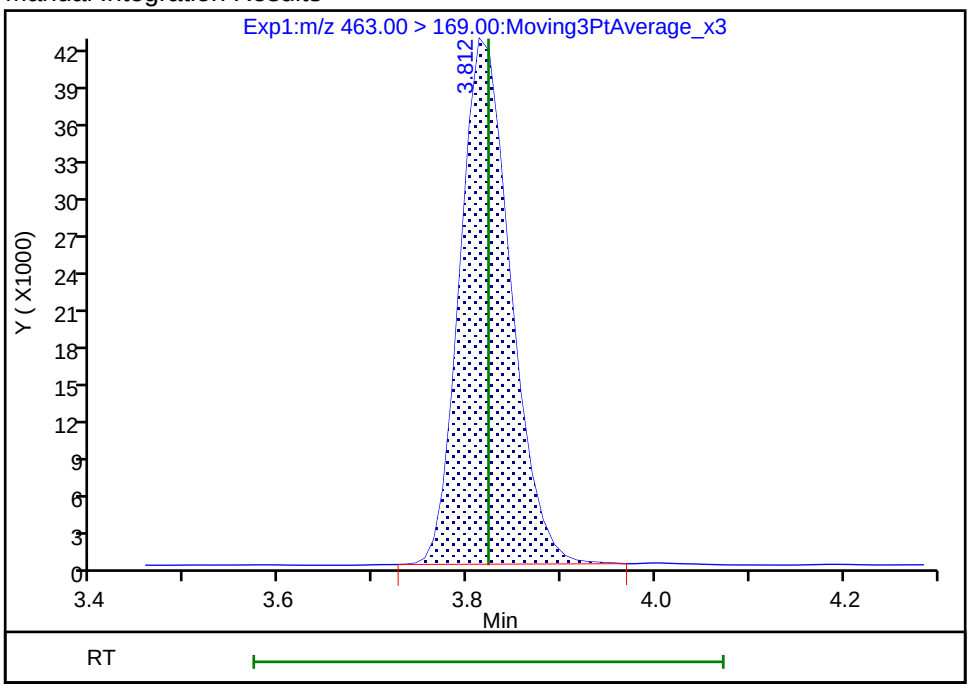
Processing Integration Results

RT: 3.81
Area: 160562
Amount: 1.035415
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 160041
Amount: 1.041333
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:02:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

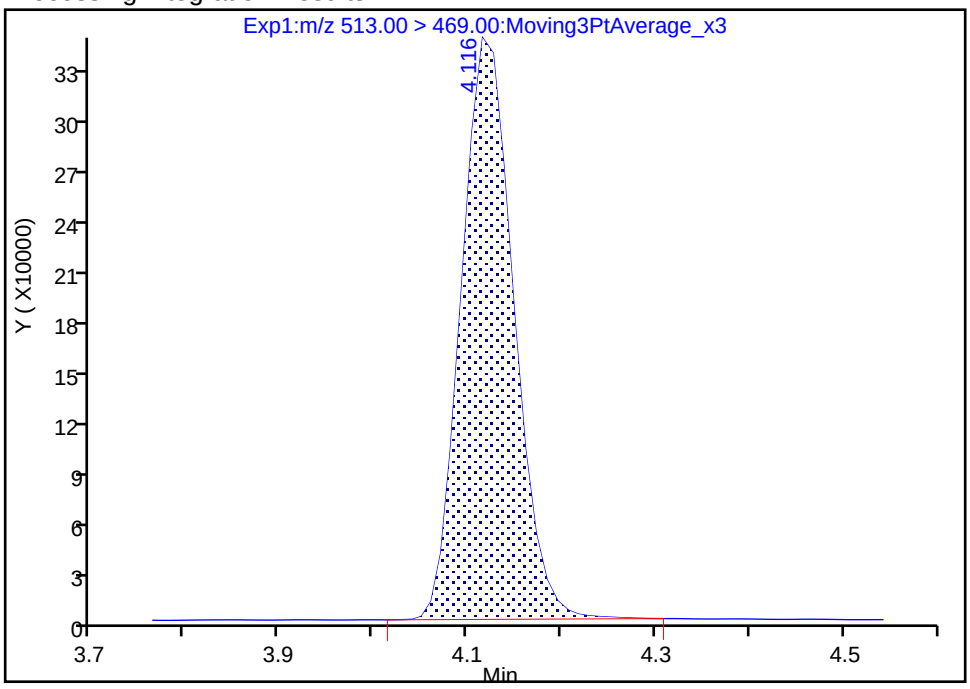
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d				
Injection Date:	13-Jun-2022 17:58:04	Instrument ID:	LC812		
Lims ID:	LCS 200-180717/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

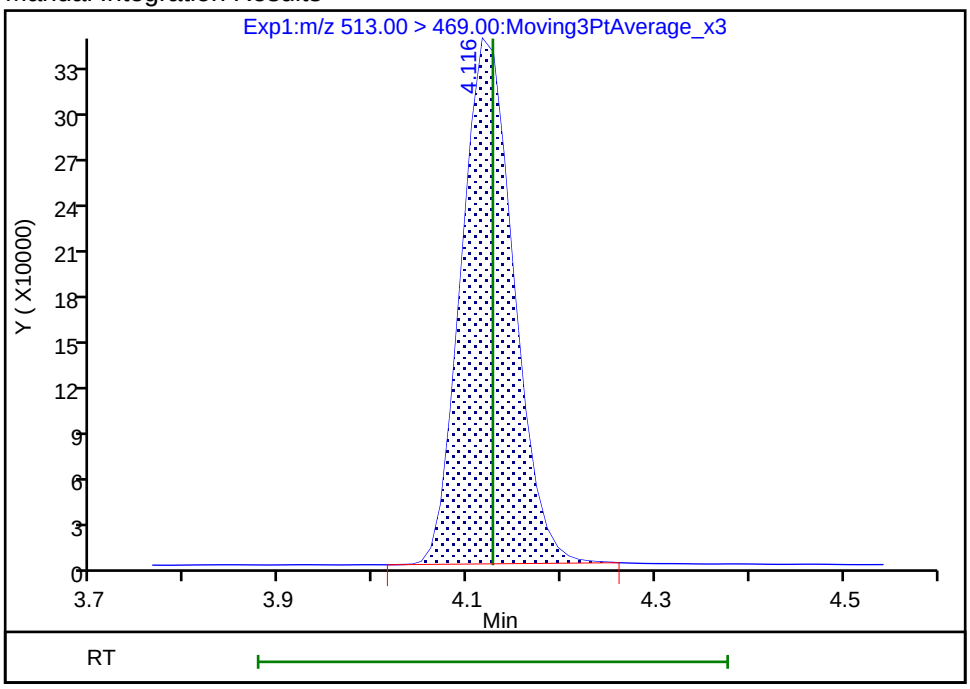
Processing Integration Results

RT: 4.12
Area: 1337939
Amount: 0.985357
Amount Units: ng/ml



Manual Integration Results

RT: 4.12
Area: 1331819
Amount: 0.980850
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:36:56

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

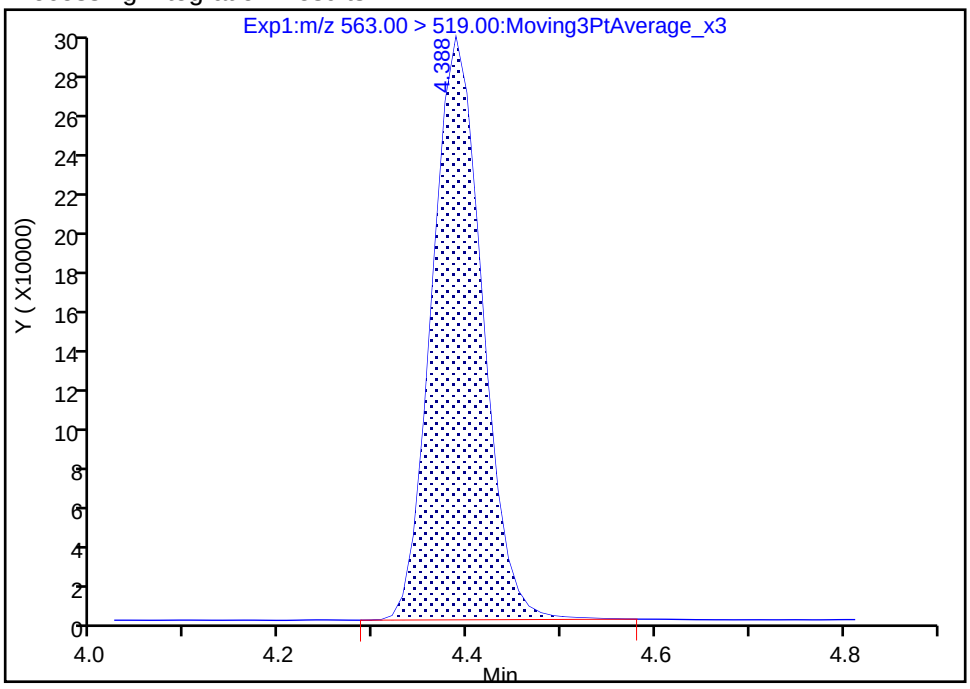
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d
Injection Date: 13-Jun-2022 17:58:04 Instrument ID: LC812
Lims ID: LCS 200-180717/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

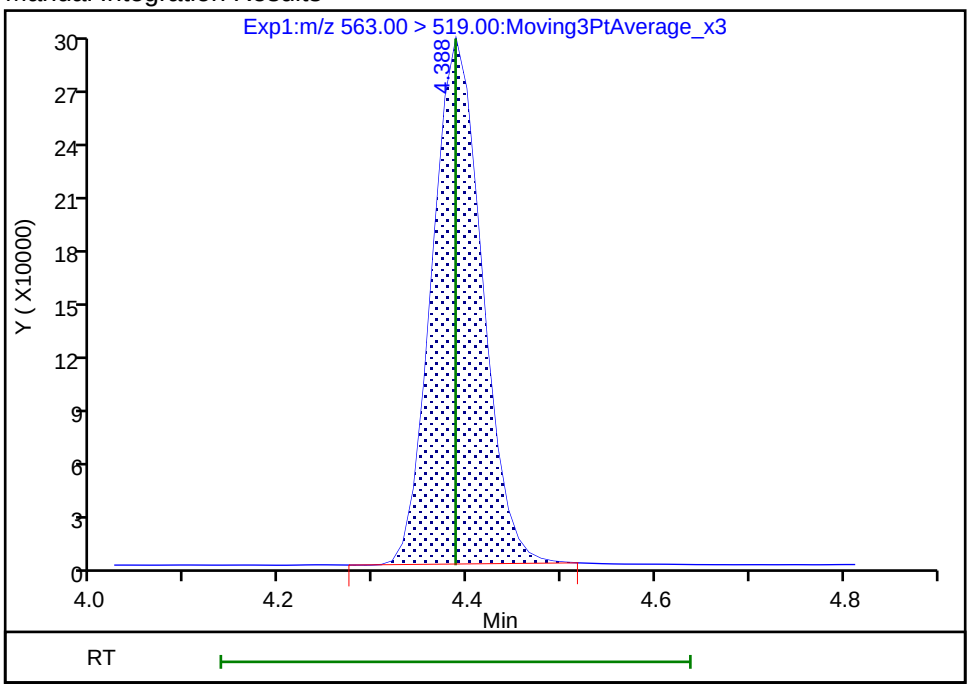
Processing Integration Results

RT: 4.39
Area: 1105643
Amount: 1.053927
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 1097916
Amount: 1.046562
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:38:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

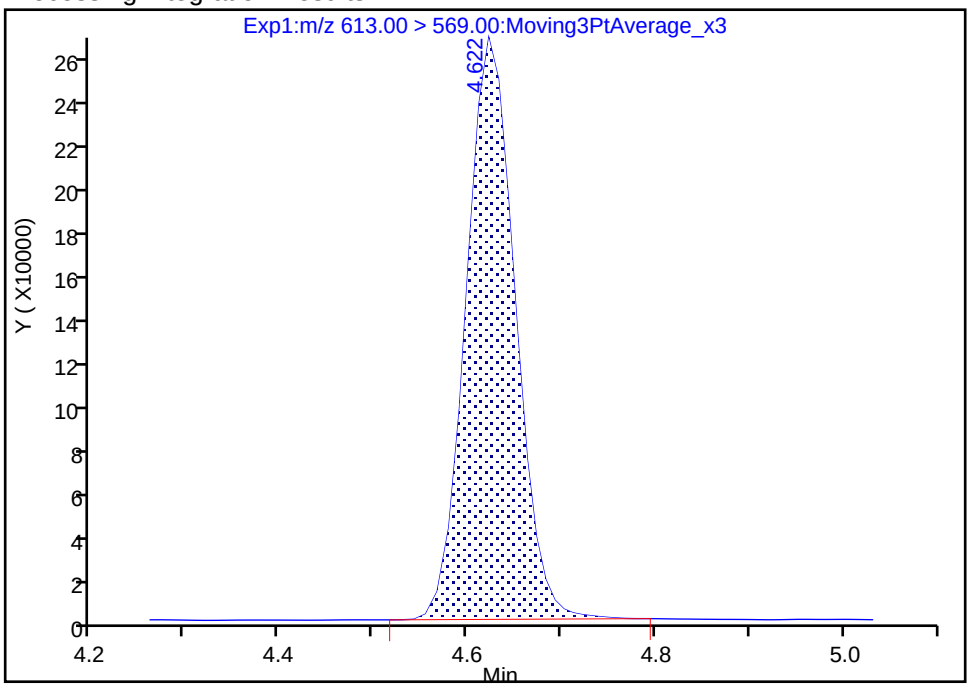
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d
Injection Date: 13-Jun-2022 17:58:04 Instrument ID: LC812
Lims ID: LCS 200-180717/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

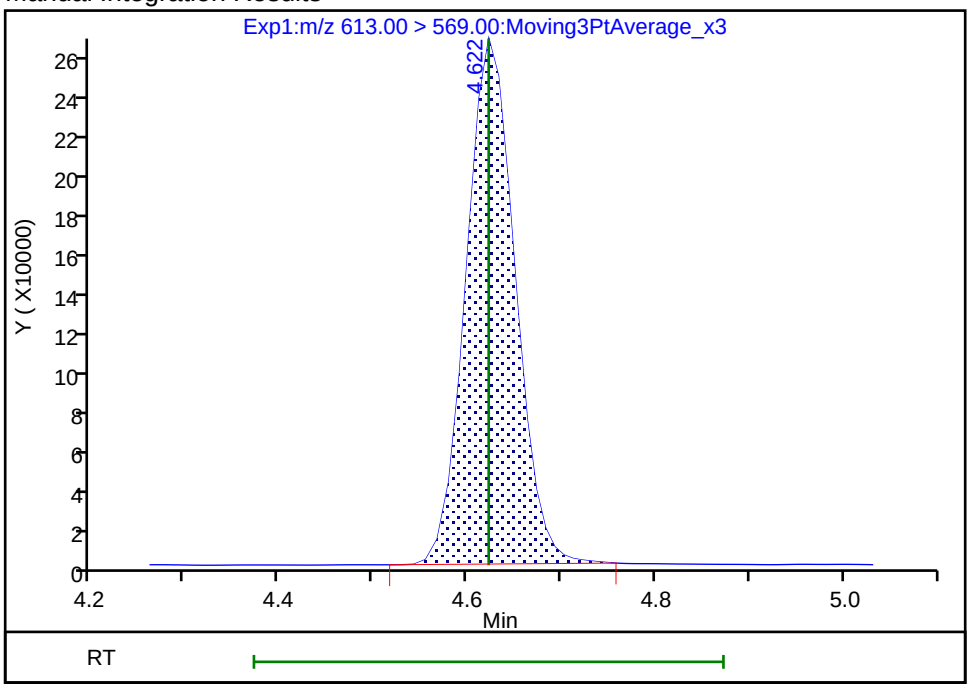
Processing Integration Results

RT: 4.62
Area: 973880
Amount: 0.889516
Amount Units: ng/ml



Manual Integration Results

RT: 4.62
Area: 970889
Amount: 0.892747
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:38:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

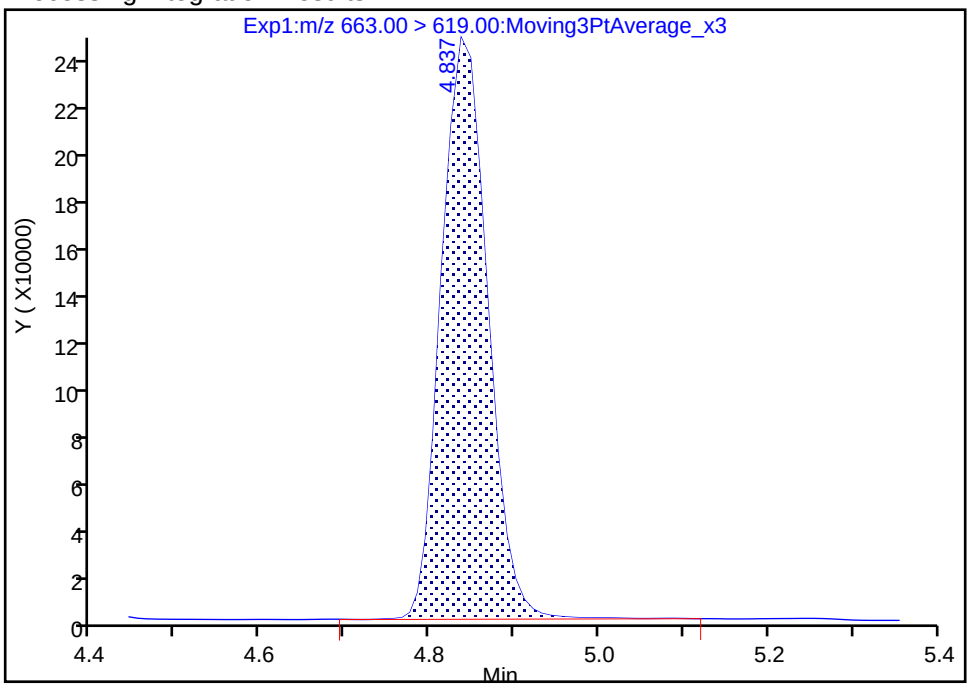
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d
Injection Date: 13-Jun-2022 17:58:04 Instrument ID: LC812
Lims ID: LCS 200-180717/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

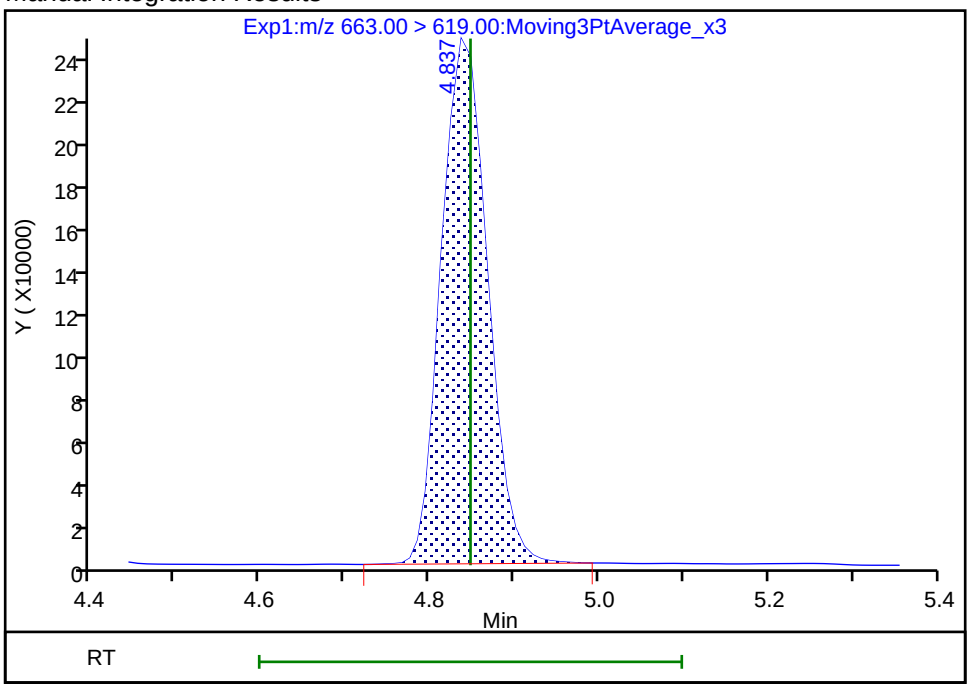
Processing Integration Results

RT: 4.84
Area: 930087
Amount: 0.997439
Amount Units: ng/ml



Manual Integration Results

RT: 4.84
Area: 924690
Amount: 0.998320
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:03:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

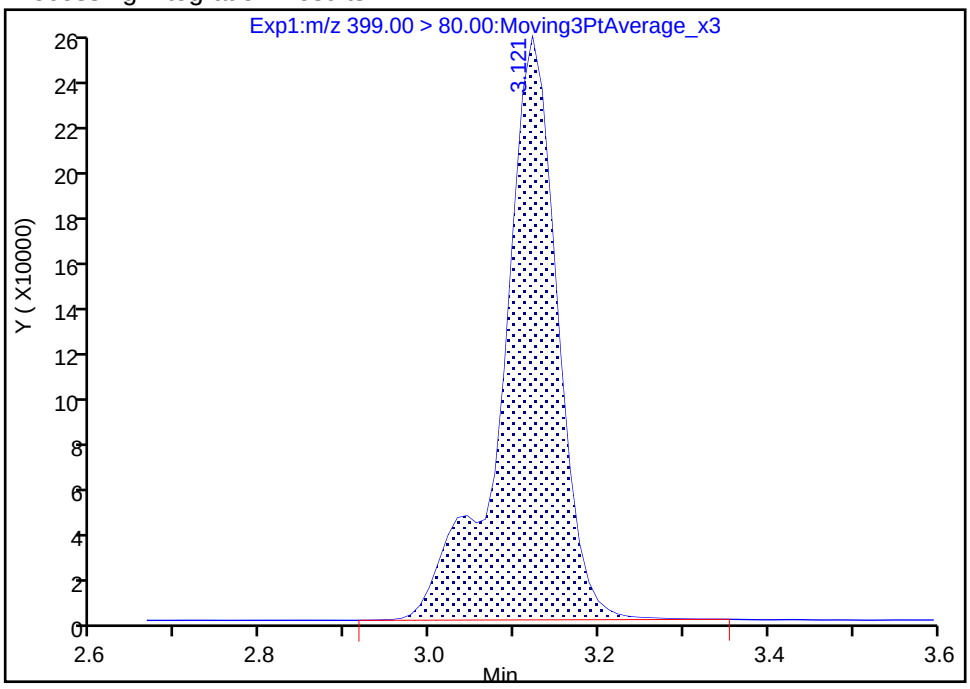
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d				
Injection Date:	13-Jun-2022 17:58:04	Instrument ID:	LC812		
Lims ID:	LCS 200-180717/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

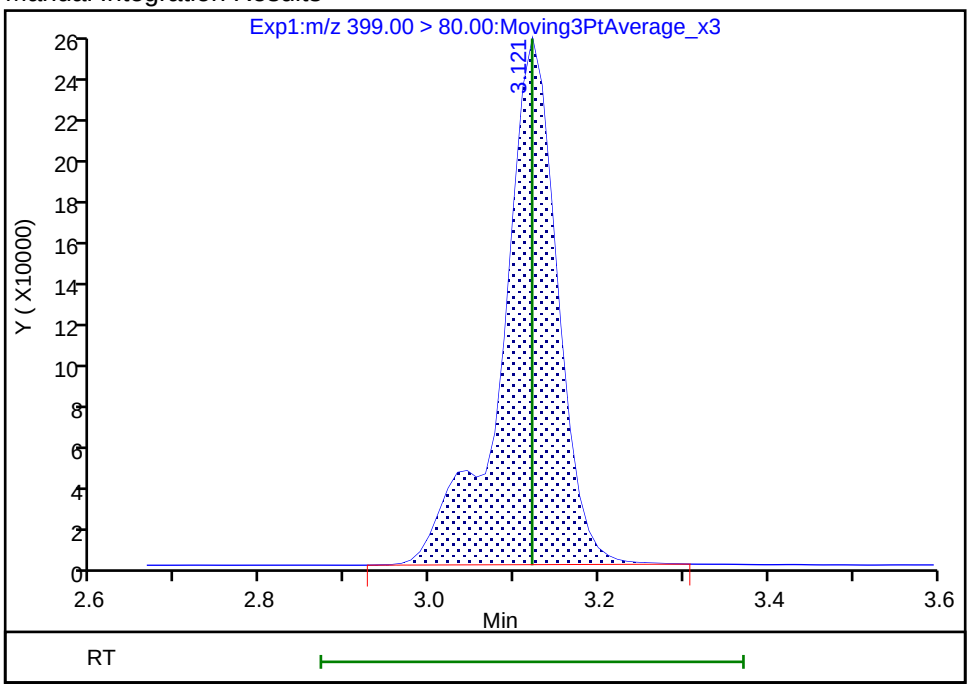
Processing Integration Results

RT: 3.12
Area: 1147413
Amount: 0.908934
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 1145689
Amount: 0.907568
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:00:14

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

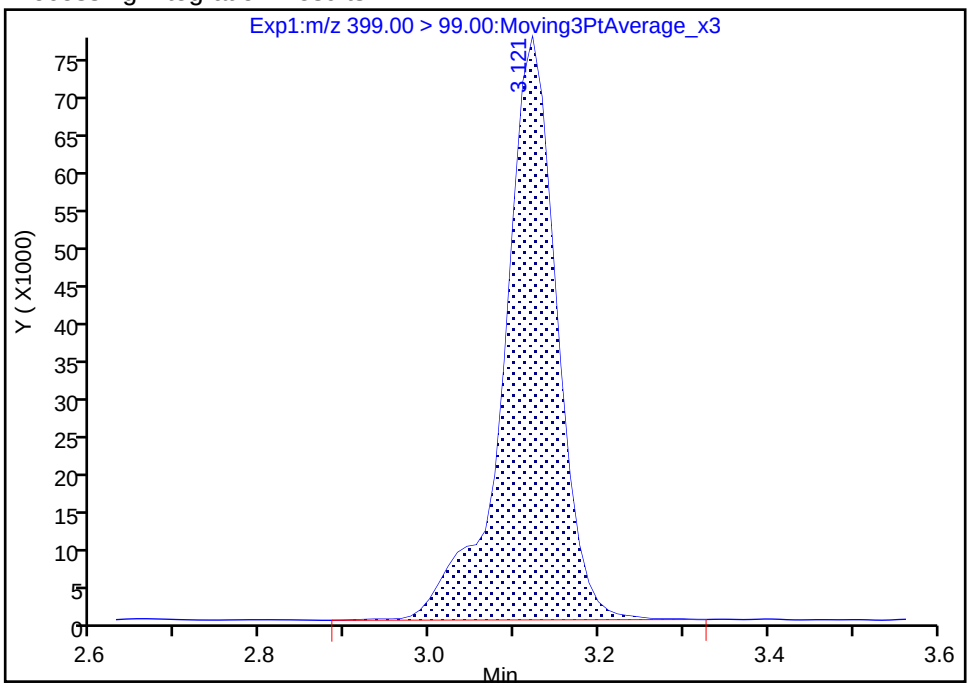
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d				
Injection Date:	13-Jun-2022 17:58:04	Instrument ID:	LC812		
Lims ID:	LCS 200-180717/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

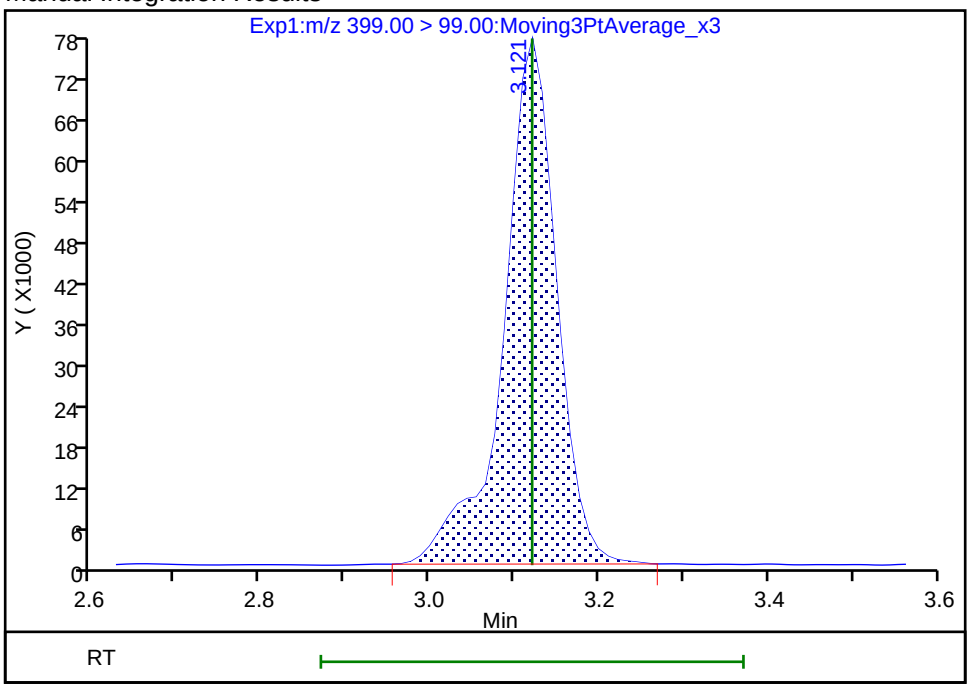
Processing Integration Results

RT: 3.12
Area: 339464
Amount: 0.908934
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 336817
Amount: 0.907568
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:00:21

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

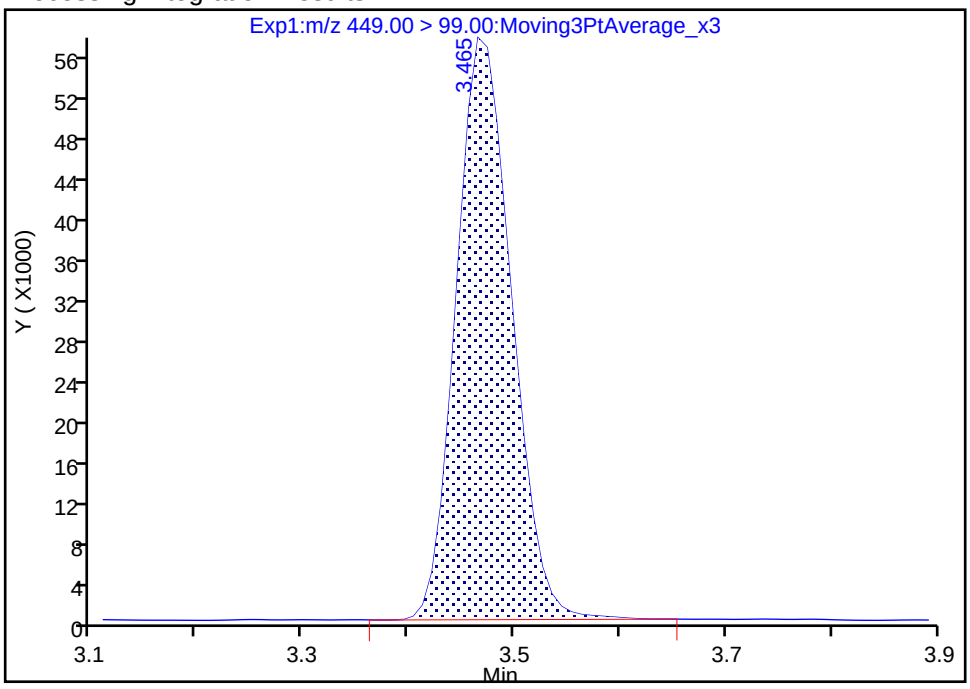
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d				
Injection Date:	13-Jun-2022 17:58:04	Instrument ID:	LC812		
Lims ID:	LCS 200-180717/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

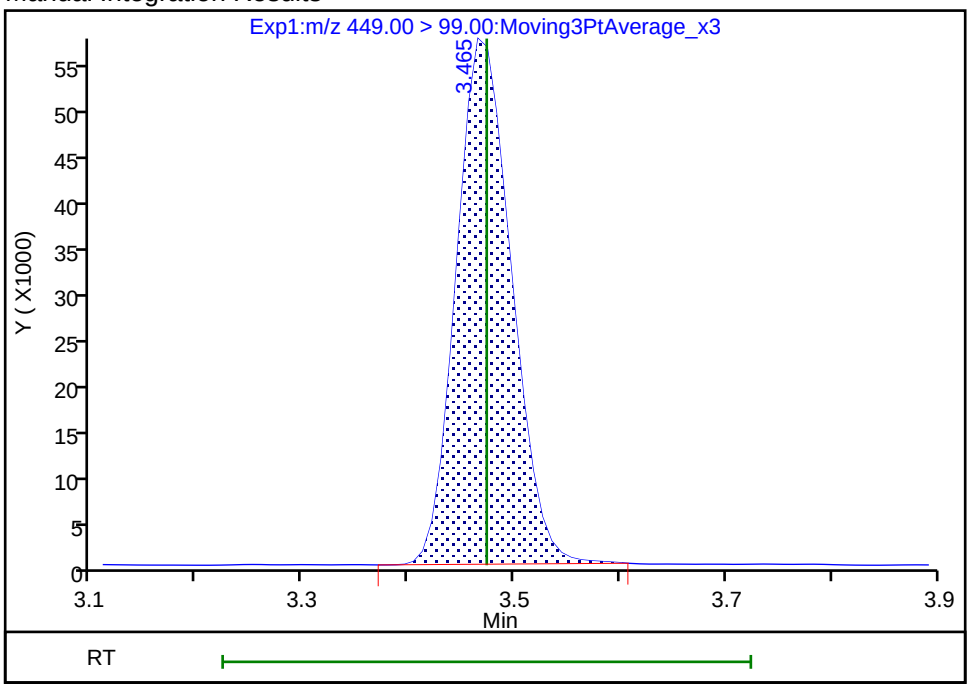
Processing Integration Results

RT: 3.47
Area: 207239
Amount: 0.981452
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 206368
Amount: 0.982411
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:35:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

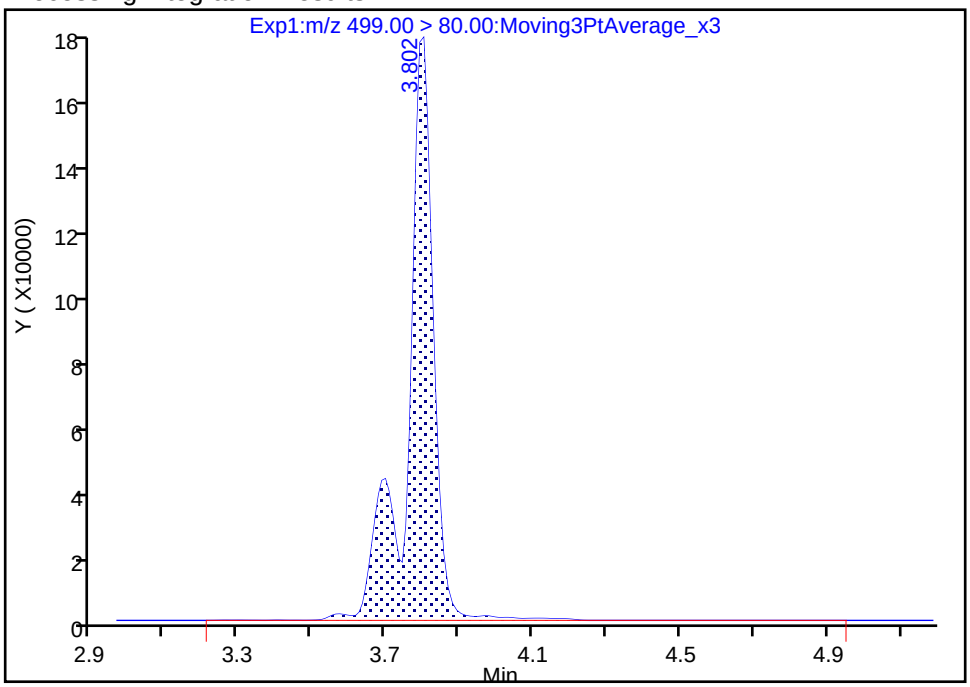
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d
Injection Date: 13-Jun-2022 17:58:04 Instrument ID: LC812
Lims ID: LCS 200-180717/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

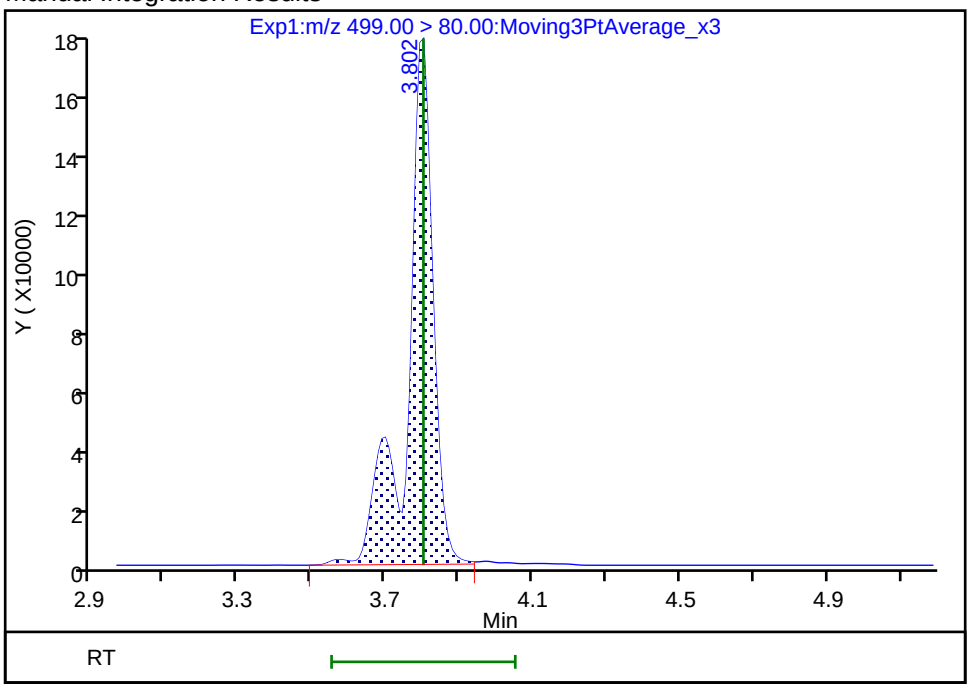
Processing Integration Results

RT: 3.80
Area: 870398
Amount: 0.963919
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 852611
Amount: 0.945143
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:01:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

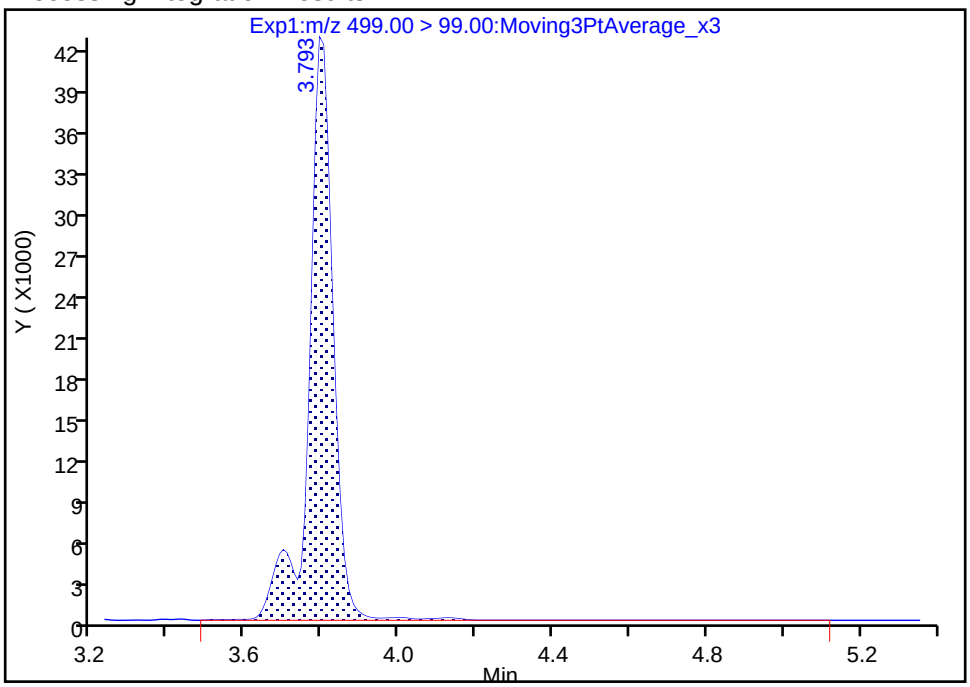
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d				
Injection Date:	13-Jun-2022 17:58:04	Instrument ID:	LC812		
Lims ID:	LCS 200-180717/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

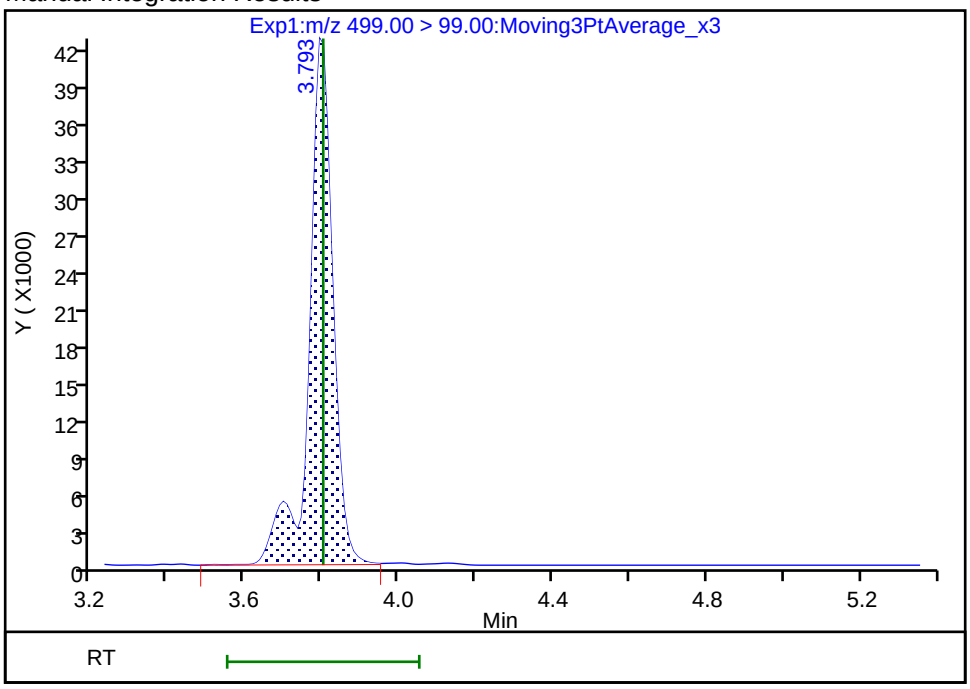
Processing Integration Results

RT: 3.79
Area: 186770
Amount: 0.963919
Amount Units: ng/ml



Manual Integration Results

RT: 3.79
Area: 184224
Amount: 0.945143
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:01:53

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

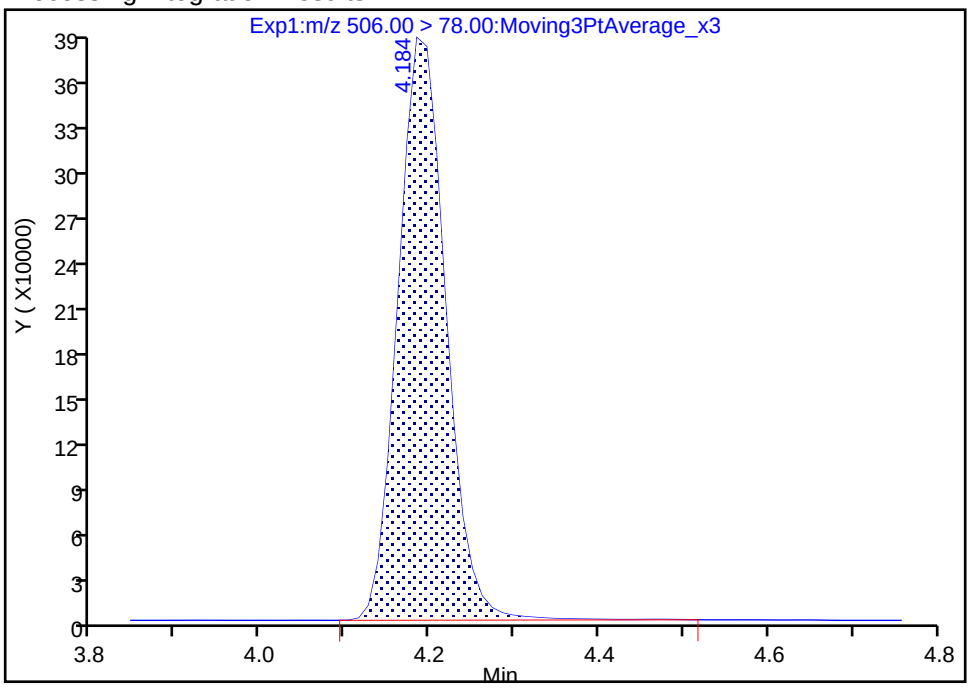
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d
Injection Date: 13-Jun-2022 17:58:04 Instrument ID: LC812
Lims ID: LCS 200-180717/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

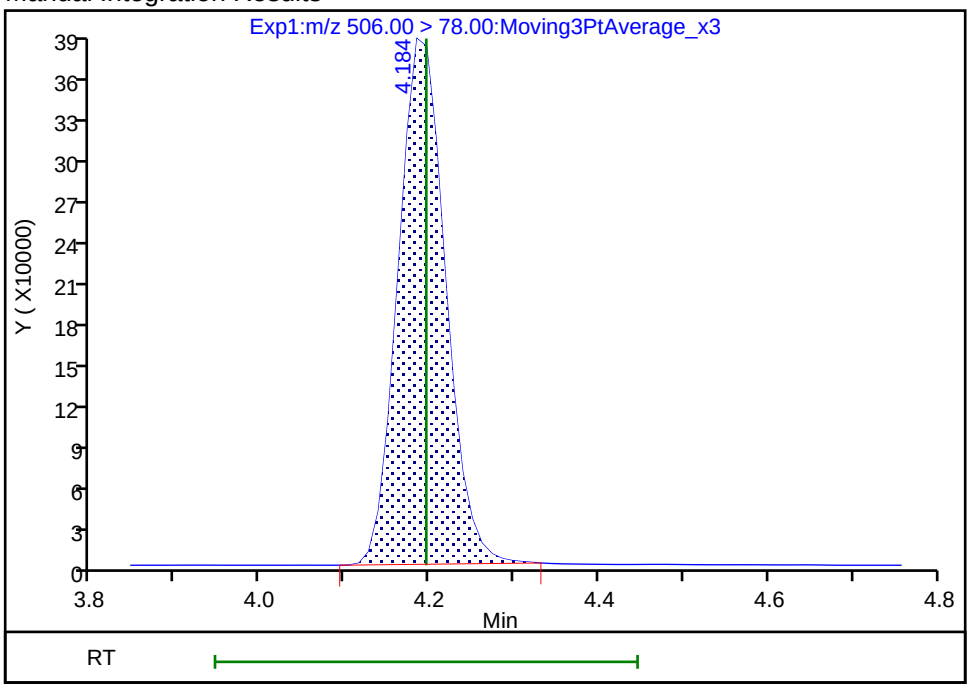
Processing Integration Results

RT: 4.18
Area: 1500995
Amount: 1.015391
Amount Units: ng/ml



Manual Integration Results

RT: 4.18
Area: 1486278
Amount: 1.014483
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:37:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

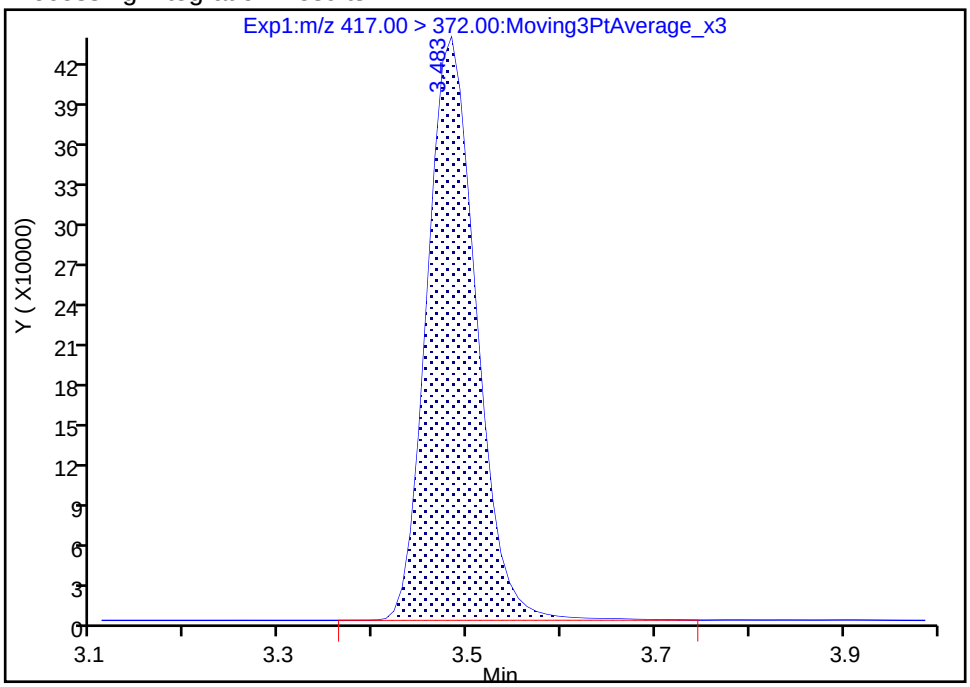
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d				
Injection Date:	13-Jun-2022 17:58:04	Instrument ID:	LC812		
Lims ID:	LCS 200-180717/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

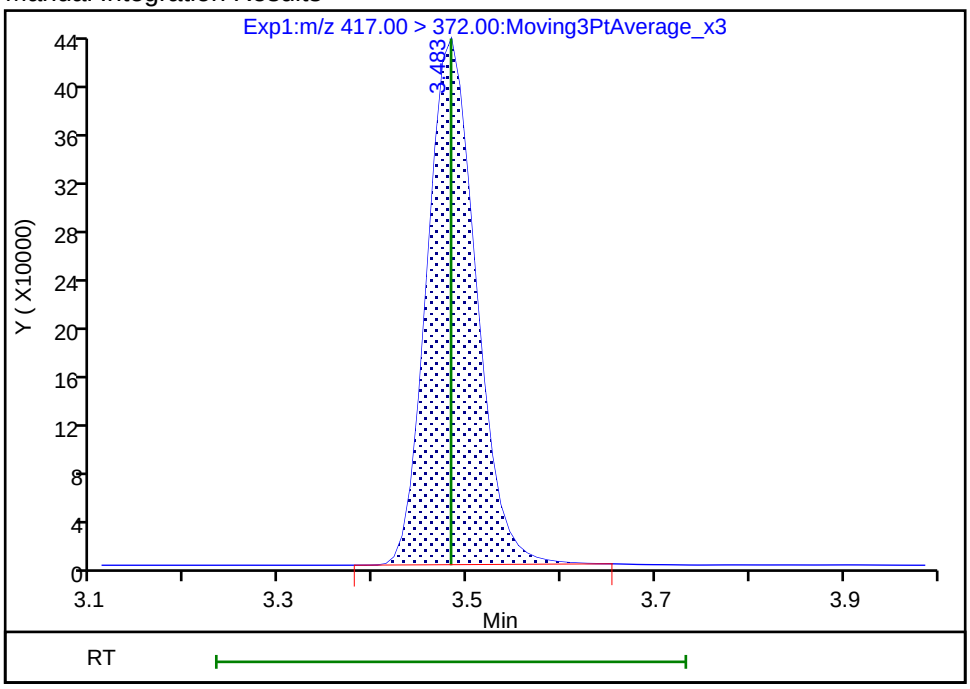
Processing Integration Results

RT: 3.48
Area: 1559724
Amount: 1.225520
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 1548582
Amount: 1.216765
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:36:10

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

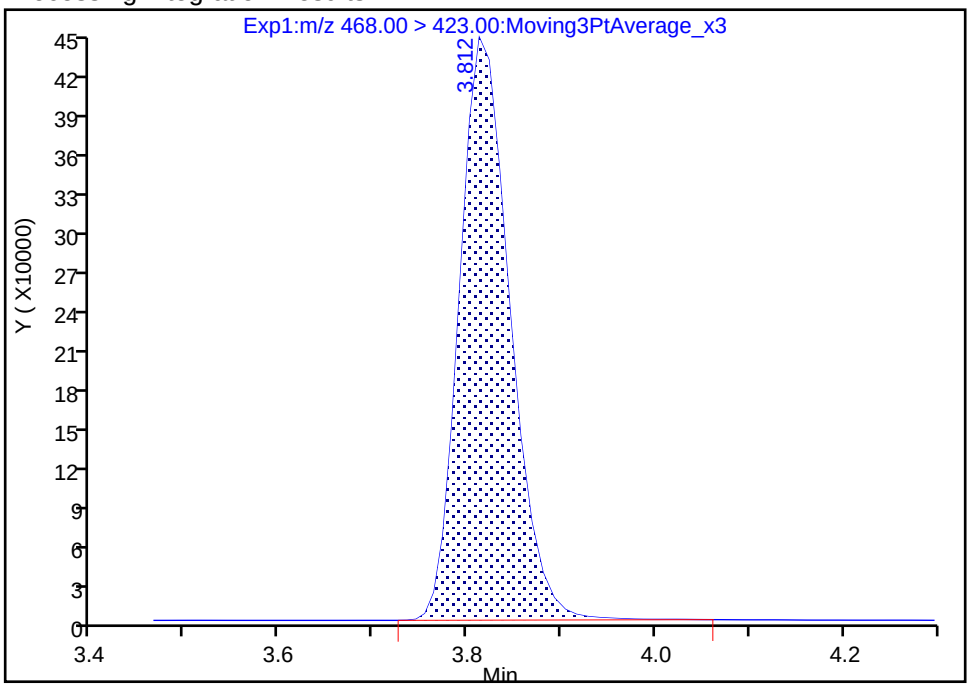
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d
Injection Date: 13-Jun-2022 17:58:04 Instrument ID: LC812
Lims ID: LCS 200-180717/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

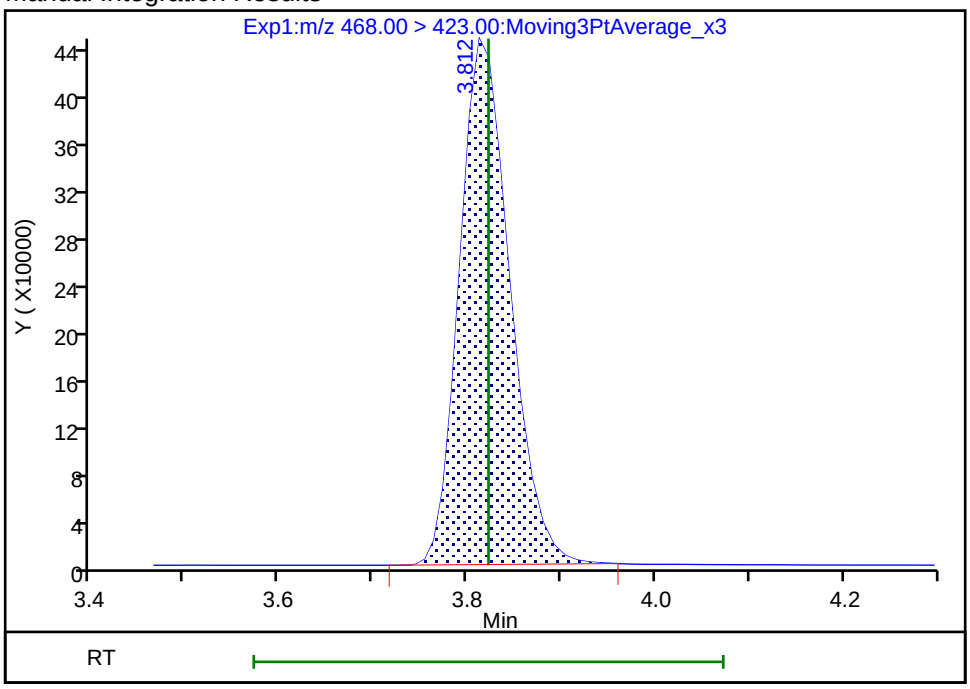
Processing Integration Results

RT: 3.81
Area: 1667933
Amount: 1.206077
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 1658454
Amount: 1.199223
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:36:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

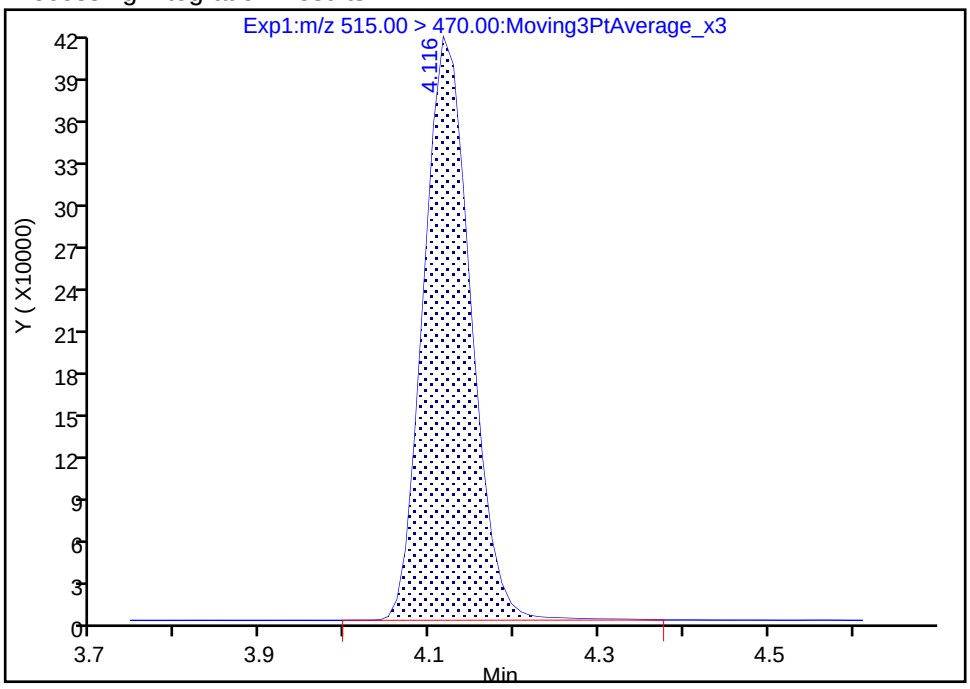
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d
Injection Date: 13-Jun-2022 17:58:04 Instrument ID: LC812
Lims ID: LCS 200-180717/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

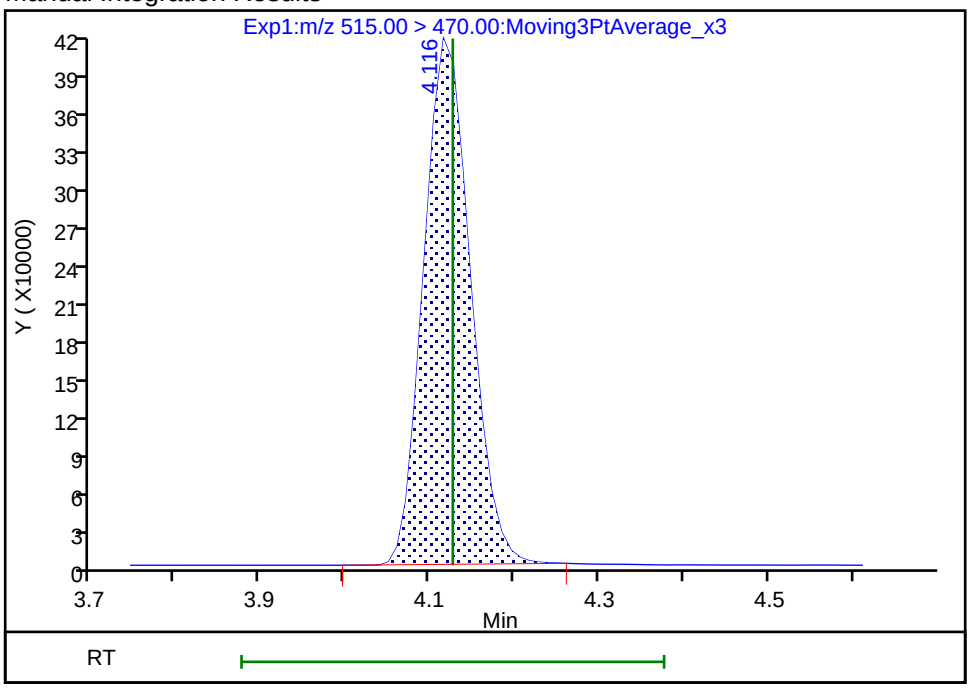
Processing Integration Results

RT: 4.12
Area: 1607416
Amount: 1.207092
Amount Units: ng/ml



Manual Integration Results

RT: 4.12
Area: 1593142
Amount: 1.196373
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:36:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

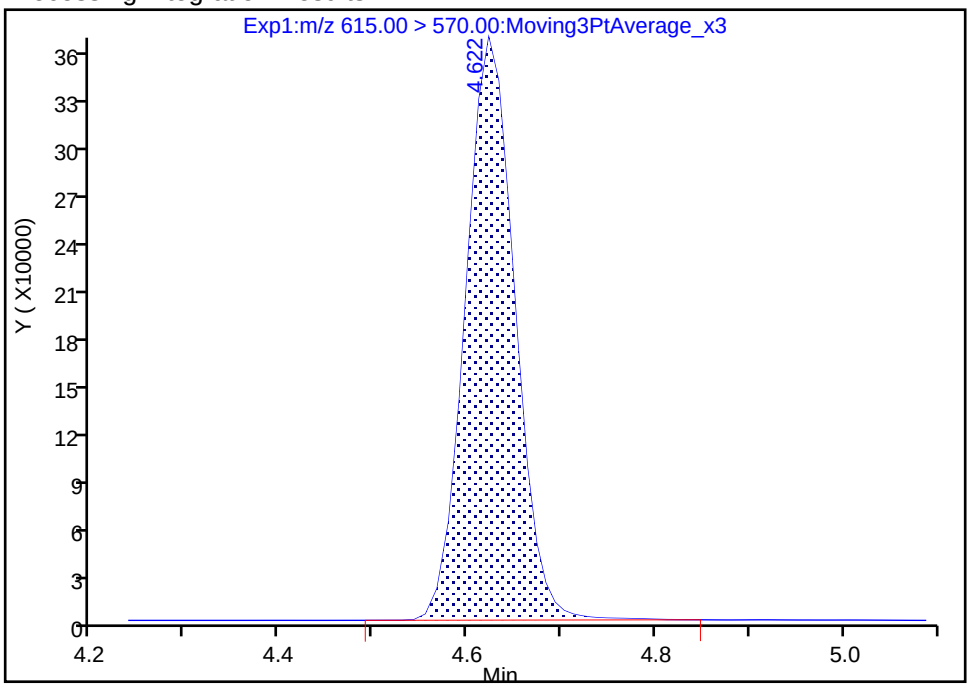
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d				
Injection Date:	13-Jun-2022 17:58:04	Instrument ID:	LC812		
Lims ID:	LCS 200-180717/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 36 13C2 PFDoA, CAS: STL00998

Signal: 1

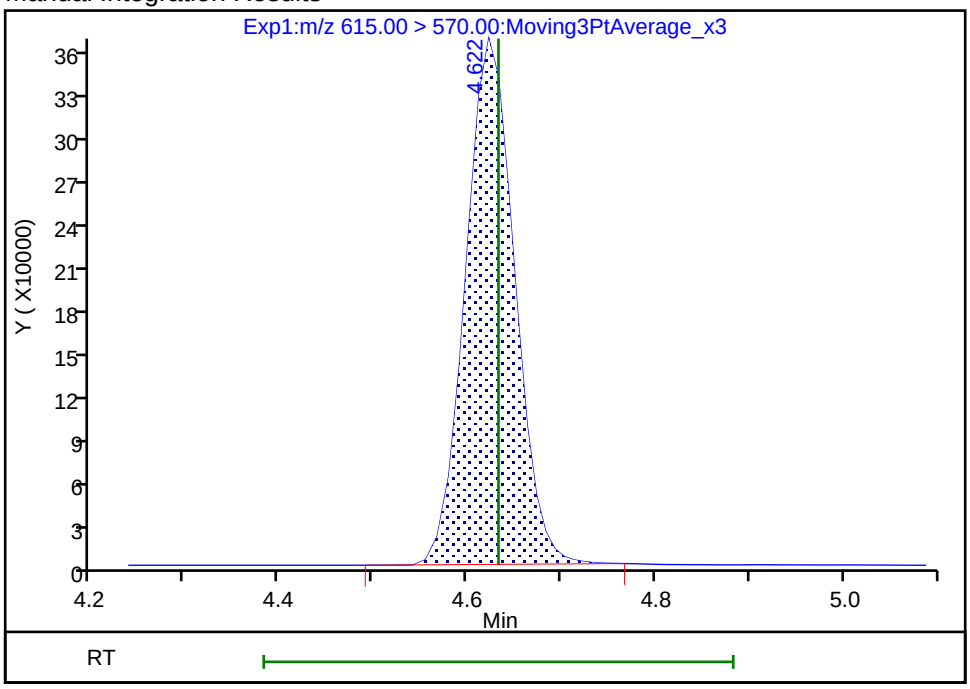
Processing Integration Results

RT: 4.62
Area: 1326937
Amount: 1.162120
Amount Units: ng/ml



Manual Integration Results

RT: 4.62
Area: 1318073
Amount: 1.154357
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:38:50

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

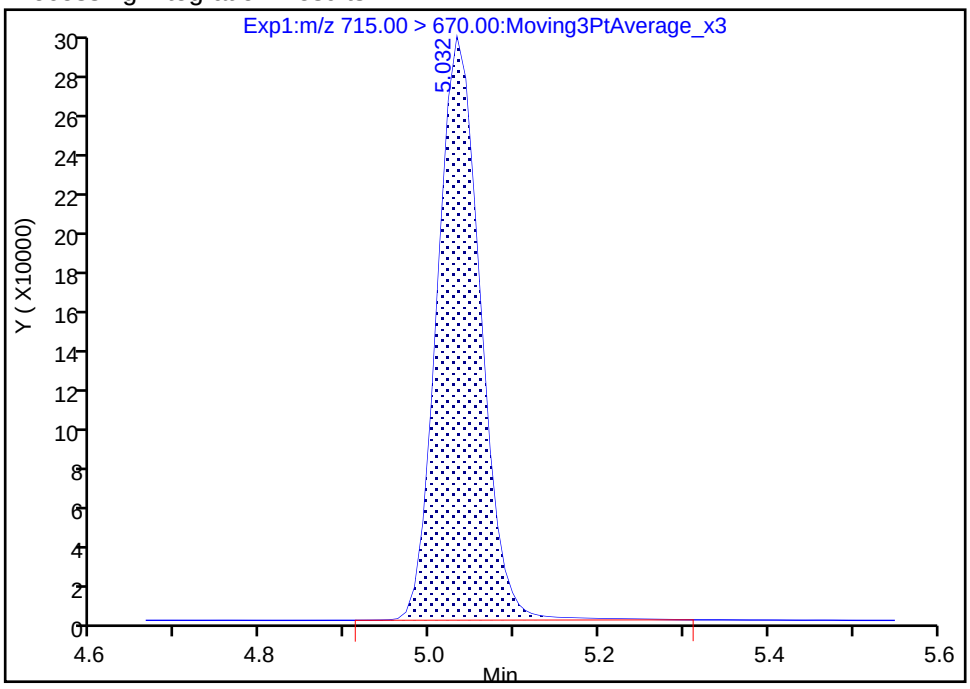
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d
Injection Date: 13-Jun-2022 17:58:04 Instrument ID: LC812
Lims ID: LCS 200-180717/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

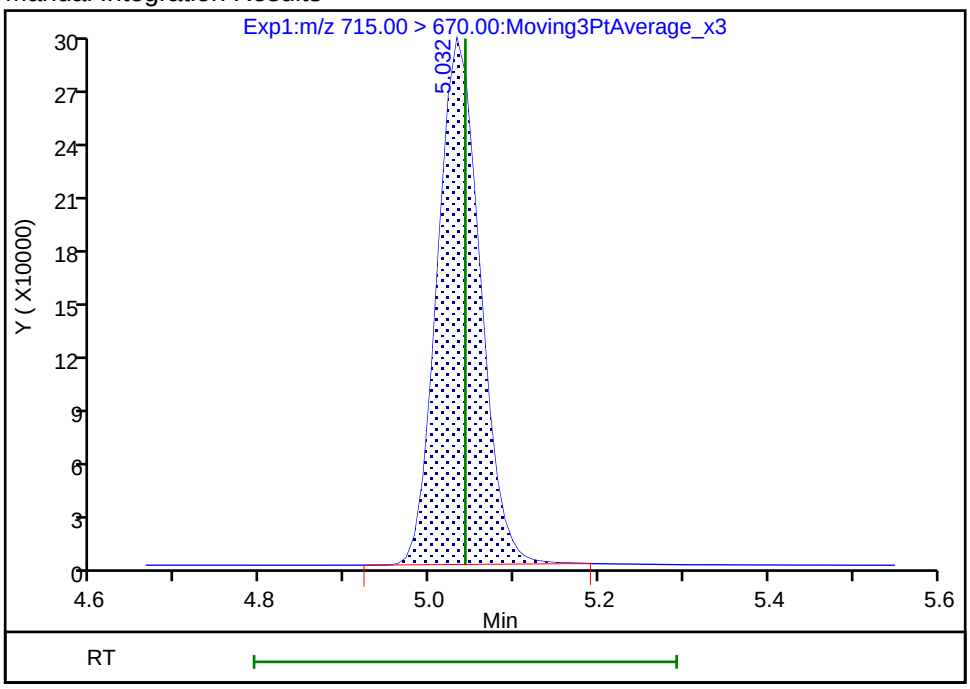
Processing Integration Results

RT: 5.03
Area: 1056036
Amount: 1.131618
Amount Units: ng/ml



Manual Integration Results

RT: 5.03
Area: 1047329
Amount: 1.122288
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:39:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

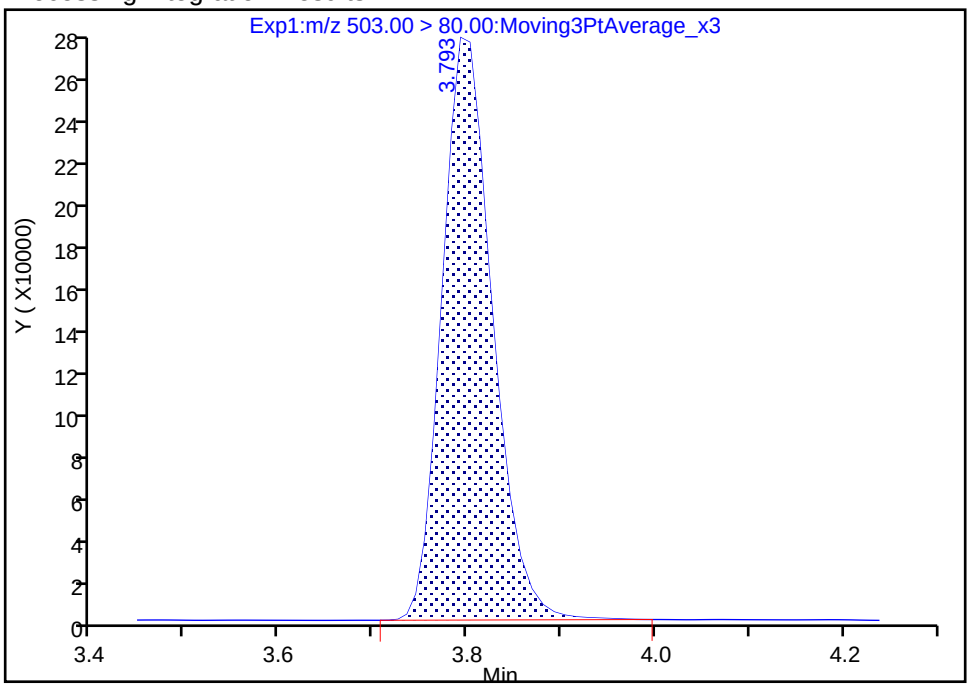
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d				
Injection Date:	13-Jun-2022 17:58:04	Instrument ID:	LC812		
Lims ID:	LCS 200-180717/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

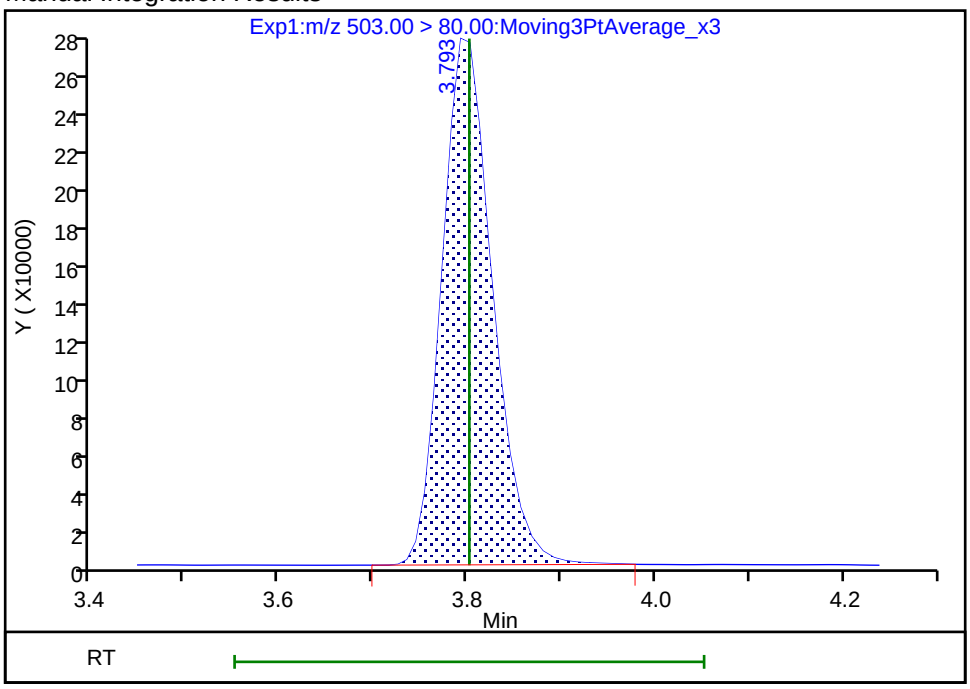
Processing Integration Results

RT: 3.79
Area: 1010465
Amount: 1.033842
Amount Units: ng/ml



Manual Integration Results

RT: 3.79
Area: 1009479
Amount: 1.032834
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:36:26

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

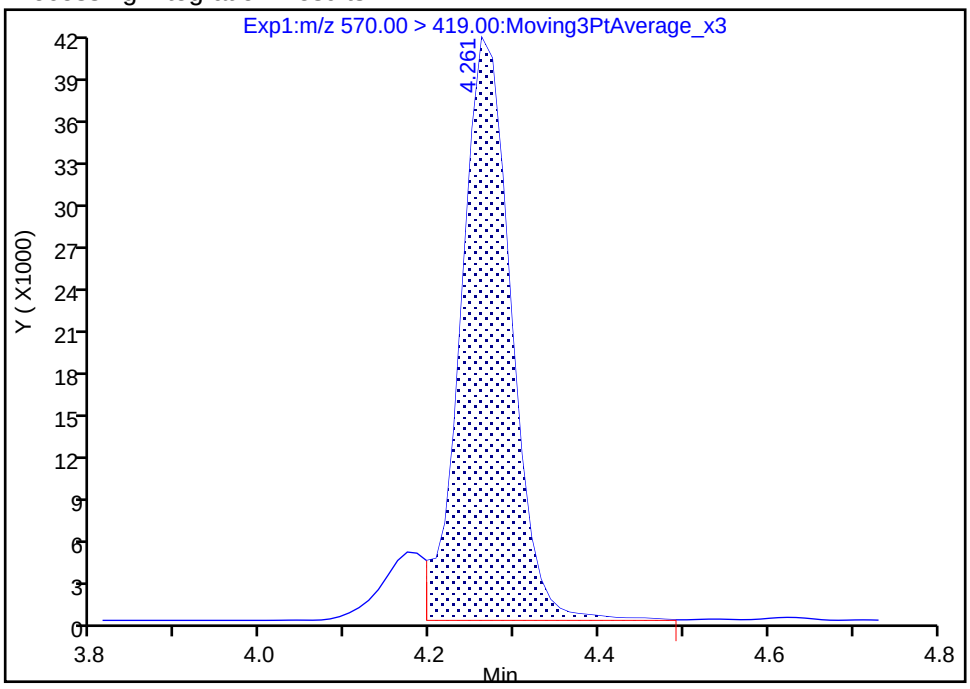
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d
Injection Date: 13-Jun-2022 17:58:04 Instrument ID: LC812
Lims ID: LCS 200-180717/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

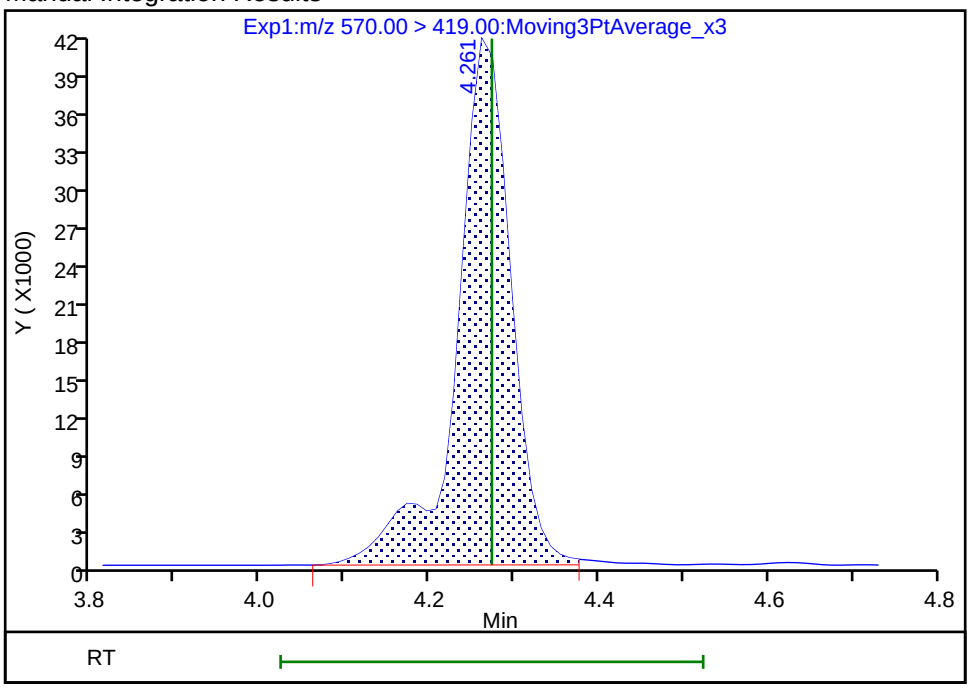
Processing Integration Results

RT: 4.26
Area: 170461
Amount: 0.874151
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 185621
Amount: 0.959381
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:37:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

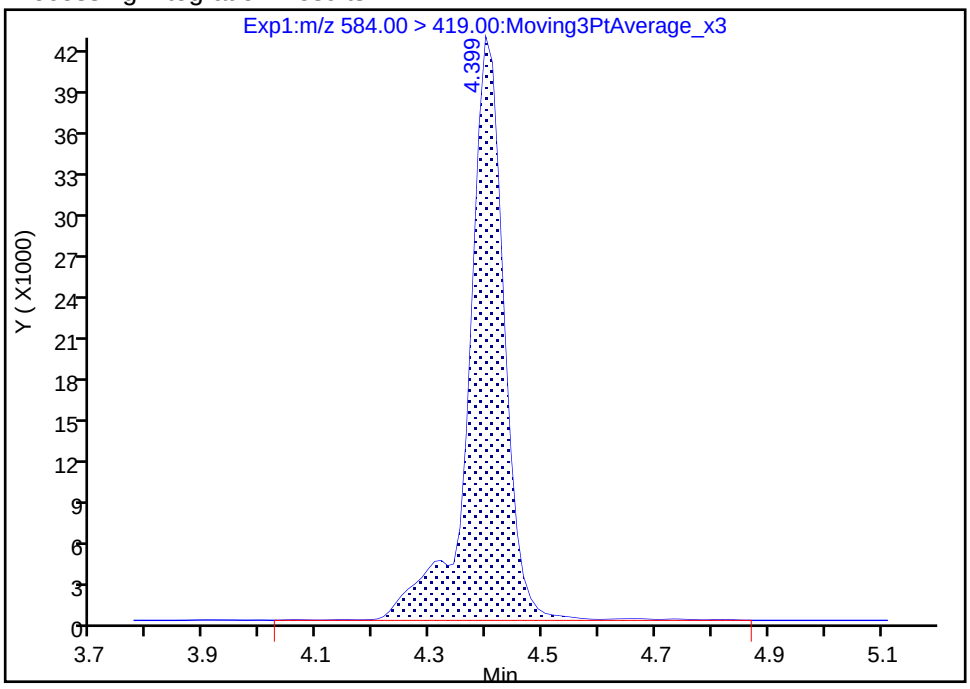
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d
Injection Date: 13-Jun-2022 17:58:04 Instrument ID: LC812
Lims ID: LCS 200-180717/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

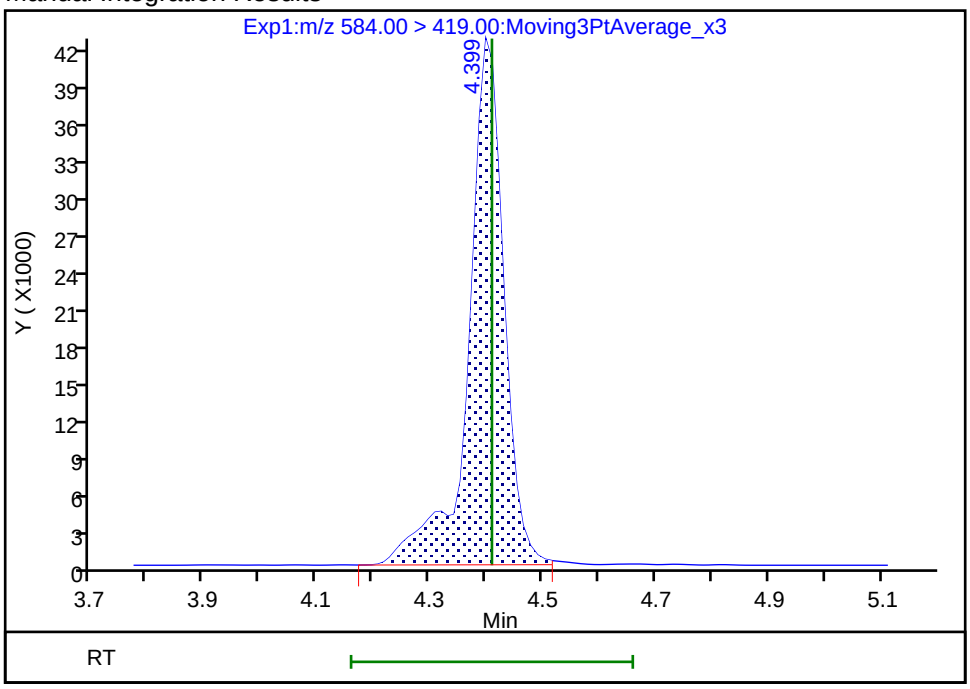
Processing Integration Results

RT: 4.40
Area: 187410
Amount: 0.989386
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 184794
Amount: 0.975575
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:02:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

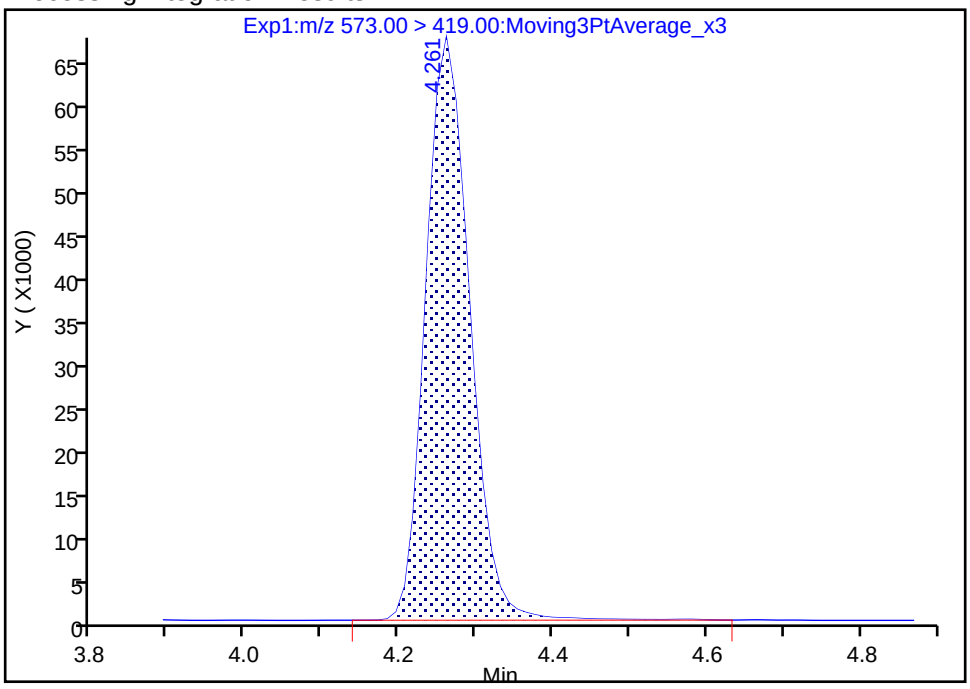
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d				
Injection Date:	13-Jun-2022 17:58:04	Instrument ID:	LC812		
Lims ID:	LCS 200-180717/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

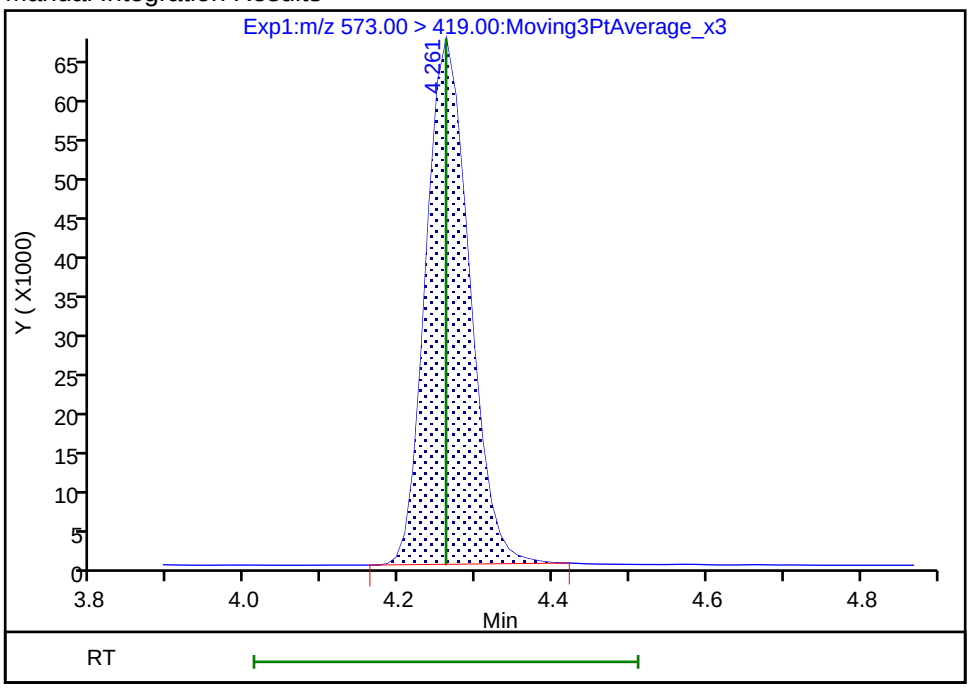
Processing Integration Results

RT: 4.26
Area: 269082
Amount: 1.508765
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 265939
Amount: 1.504560
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:37:32

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

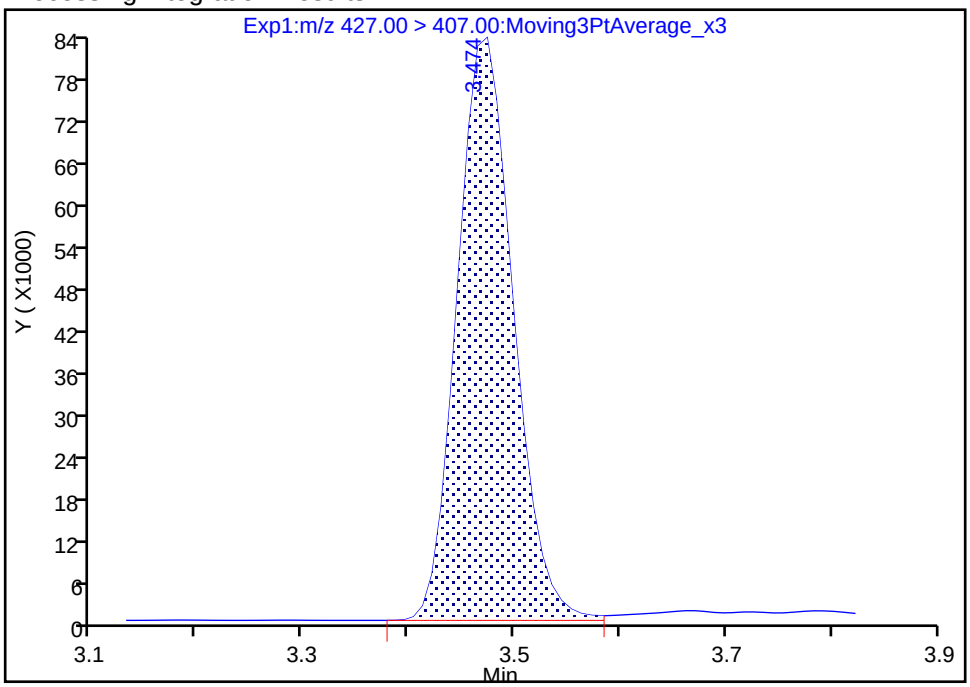
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d
Injection Date: 13-Jun-2022 17:58:04 Instrument ID: LC812
Lims ID: LCS 200-180717/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

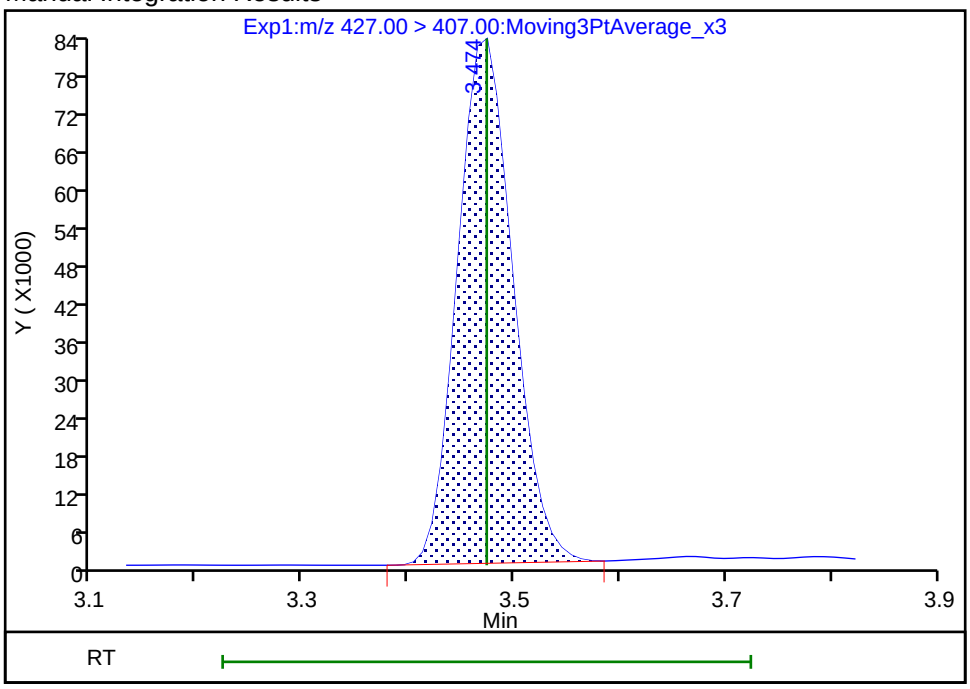
Processing Integration Results

RT: 3.47
Area: 307771
Amount: 1.059956
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 303673
Amount: 1.045477
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:35:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

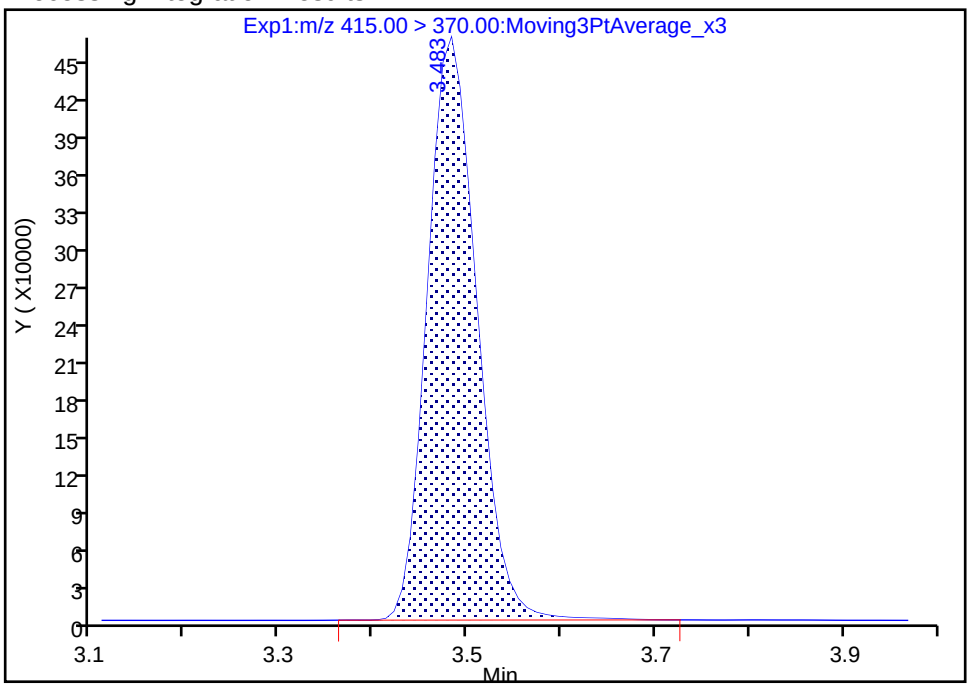
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A07.d
Injection Date: 13-Jun-2022 17:58:04 Instrument ID: LC812
Lims ID: LCS 200-180717/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

* 62 13C2 PFOA, CAS: STL00623

Signal: 1

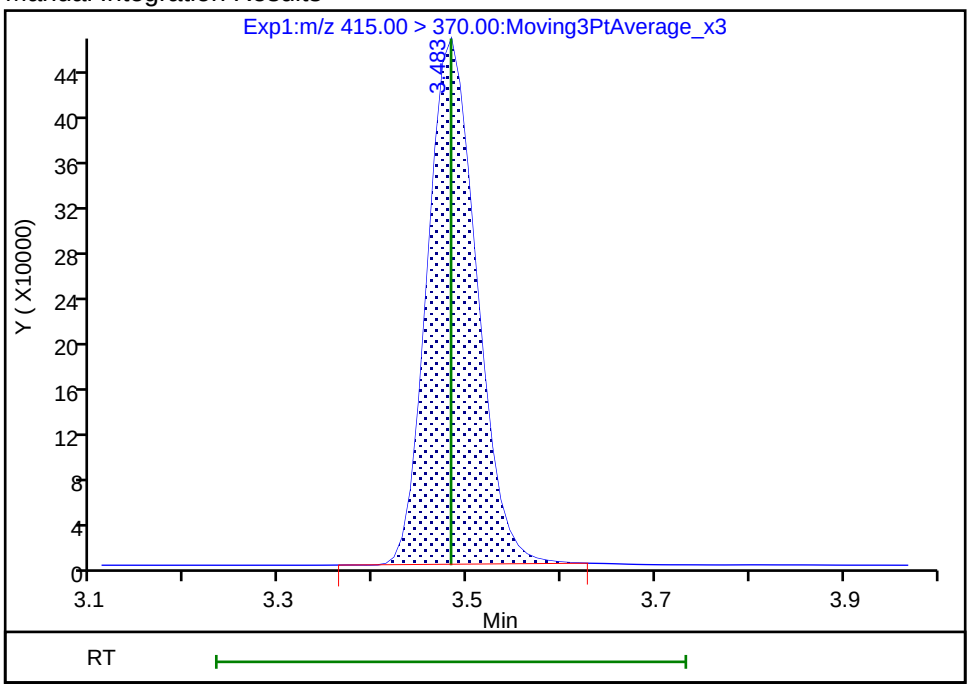
Processing Integration Results

RT: 3.48
Area: 1705046
Amount: 1.250000
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 1689840
Amount: 1.250000
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:36:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: Lab Sample ID: LCSD 200-180717/3-A

Matrix: Water Lab File ID: PA220613A08.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 06/13/2022 08:55

Sample wt/vol: 250(mL) Date Analyzed: 06/13/2022 18:06

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 180744 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
375-22-4	Perfluorobutanoic acid (PFBA)	41.2		5.0	
2706-90-3	Perfluoropentanoic acid (PFPeA)	41.3		2.0	
307-24-4	Perfluorohexanoic acid (PFHxA)	40.4		2.0	
375-85-9	Perfluoroheptanoic acid (PFHpA)	43.1		2.0	
335-67-1	Perfluorooctanoic acid (PFOA)	39.2		2.0	
375-95-1	Perfluorononanoic acid (PFNA)	42.4		2.0	
335-76-2	Perfluorodecanoic acid (PFDA)	43.0		2.0	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	43.1		2.0	
307-55-1	Perfluorododecanoic acid (PFDoA)	41.4		2.0	
72629-94-8	Perfluorotridecanoic acid (PFTriA)	41.7		2.0	
376-06-7	Perfluorotetradecanoic acid (PFTeA)	37.4		2.0	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	36.4		2.0	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	37.1		2.0	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	39.7		2.0	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	34.8		2.0	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	38.2		2.0	
754-91-6	Perfluorooctanesulfonamide (FOSA)	40.2		2.0	
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	39.4		5.0	
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	37.8		5.0	
27619-97-2	6:2 FTS	41.9		5.0	
39108-34-4	8:2 FTS	42.4		2.0	

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: Lab Sample ID: LCSD 200-180717/3-A

Matrix: Water Lab File ID: PA220613A08.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 06/13/2022 08:55

Sample wt/vol: 250(mL) Date Analyzed: 06/13/2022 18:06

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 180744 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	71		50-150
STL00992	13C4 PFBA	114		50-150
STL01893	13C5 PFPeA	107		50-150
STL00993	13C2 PFHxA	105		50-150
STL01892	13C4 PFHpA	99		50-150
STL00990	13C4 PFOA	97		50-150
STL00995	13C5 PFNA	95		50-150
STL00996	13C2 PFDA	93		50-150
STL00997	13C2 PFUnA	86		50-150
STL00998	13C2 PFDoA	77		50-150
STL02116	13C2 PFTeDA	76		50-150
STL02337	13C3 PFBS	92		50-150
STL00994	18O2 PFHxS	88		50-150
STL00991	13C4 PFOS	85		50-150
STL02118	d3-NMeFOSAA	113		50-150
STL02117	d5-NEtFOSAA	108		50-150
STL02279	M2-6:2 FTS	90		50-150
STL02280	M2-8:2 FTS	90		50-150

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d
Lims ID: LCSD 200-180717/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 13-Jun-2022 18:06:14 ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 200-180717/3-A
Misc. Info.: 200-0051257-008 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 14-Jun-2022 14:34:58 Calib Date: 05-May-2022 15:54:29
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20220505-50718.b\PA220505ICAL10.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1636

First Level Reviewer: khanphomeea Date: 14-Jun-2022 10:12:42
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	2.086	2.085	0.001	0.598	2116774	1.42		114	6687	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.094	2.093	0.001	1.004	1646060	1.03		103	236	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.404	2.400	0.004	0.689	1513670	1.33		107	3369	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.404	2.400	0.004	1.000	1273942	1.03		103	50.8	
D 47 13C3 PFBS										
301.90 > 80.00	2.418	2.427	-0.009	0.693	1757973	1.07		91.8	301059	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.418	2.427	-0.009	1.000	1500901	0.9105	Target=2.15	103	501	
298.90 > 99.00	2.418	2.427	-0.009	1.000	694844		2.16(1.07-3.22)		444	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.721	2.725	-0.005	0.780	146403	1.07		92.1	126	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.721	2.725	-0.005	1.000	317369	1.01		108	2186	
D 7 13C2 PFHxA										M
315.00 > 270.00	2.757	2.762	-0.005	0.791	1527556	1.32		105	1815	M
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.757	2.762	-0.005	1.000	1333149	1.01	Target=12.59	101	231	M
313.00 > 119.00	2.757	2.762	-0.005	1.000	103409		12.89(6.29-18.88)		149	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.769	2.762	0.007	0.886	1413433	1.01	Target=2.96	107	1651	
349.00 > 99.00	2.769	2.762	0.007	0.886	476016		2.97(1.48-4.44)		726	
D 64 13C3 HFPO-DA										
287.00 > 169.00	2.866	2.871	-0.005	0.822	250675	1.26		101	1547	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.866	2.871	-0.005	1.000	218939	1.00		100	1351	M
D 11 18O2 PFHxS										M
403.00 > 84.00	3.127	3.121	0.006	0.897	1345744	1.04		88.4	1351	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.127	3.121	0.006	1.000	1166273	0.9272	Target=3.53	102	1177	M
399.00 > 99.00	3.127	3.121	0.006	1.000	325787		3.58(1.76-5.29)		399	M
D 9 13C4 PFHpA										M
367.00 > 322.00	3.127	3.132	-0.005	0.897	1556643	1.24		99.4	2139	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.127	3.132	-0.005	1.000	1355806	1.08	Target=3.75	108	355	
363.00 > 169.00	3.127	3.132	-0.005	1.000	343564		3.95(1.87-5.62)		426	M
77 DONA										M
377.00 > 251.00	3.171	3.165	0.006	0.835	3138275	1.14	Target=2.77	121	1650	M
377.00 > 85.00	3.171	3.165	0.006	0.835	1136608		2.76(1.38-4.15)		1094	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.479	3.474	0.005	0.916	1032139	0.99	Target=4.90	104	1120	M
449.00 > 99.00	3.479	3.474	0.005	0.916	211186		4.89(2.45-7.35)		608	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.479	3.474	0.005	0.998	223770	1.06		89.7	560	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.479	3.474	0.005	1.000	310377	1.05		110	150	M
* 62 13C2 PFOA										M
415.00 > 370.00	3.487	3.482	0.005		1749467	1.25			1895	M
D 14 13C4 PFOA										M
417.00 > 372.00	3.487	3.482	0.005	1.000	1605796	1.22		97.5	1651	M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.487	3.482	0.005	1.000	1408582	0.9790	Target=2.68	97.9	118	M
413.00 > 169.00	3.487	3.482	0.005	1.000	536250		2.63(1.34-4.02)		773	M
D 18 13C4 PFOS										M
503.00 > 80.00	3.798	3.802	-0.004	1.089	1032972	1.02		85.4	2007	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.808	3.802	0.006	1.003	882314	0.9558	Target=4.47	103	680	M
499.00 > 99.00	3.798	3.802	-0.004	1.000	194079		4.55(2.24-6.71)		533	M
D 19 13C5 PFNA										M
468.00 > 423.00	3.819	3.822	-0.003	1.095	1698467	1.19		94.9	3028	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.819	3.822	-0.003	1.000	1393154	1.06	Target=7.74	106	315	
463.00 > 169.00	3.819	3.822	-0.003	1.000	186384		7.47(3.87-11.61)		1165	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.968	3.969	-0.001	1.045	1601336	1.05		113	2351	M
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.103	4.093	0.010	1.080	642172	0.9185	Target=2.49	95.7	1583	M
549.00 > 99.00	4.092	4.093	-0.001	1.077	254385		2.52(1.24-3.73)		1092	M
D 23 13C2 PFDA										M
515.00 > 470.00	4.126	4.127	-0.001	1.183	1610944	1.17		93.5	2318	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.126	4.127	-0.001	1.000	1476343	1.08	Target=9.31	108	681	
513.00 > 169.00	4.126	4.127	-0.001	1.000	150469		9.81(4.65-13.96)		614	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.137	4.127	0.010	1.000	266707	1.06		111	1212	M
D 26 M2-8:2 FTS										M
529.00 > 81.00	4.137	4.127	0.010	1.186	270577	1.07		89.5	914	M
D 21 13C8 FOSA										M
506.00 > 78.00	4.194	4.195	-0.001	1.203	1338352	0.8824		70.6	2256	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.194	4.195	-0.001	1.000	1092104	1.01		101	842	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.272	4.261	0.011	1.225	258205	1.41		113	681	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.272	4.273	-0.001	1.000	184923	0.9844		98.4	407	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.363	4.365	-0.002	1.149	463380	0.8691	Target=2.56	90.2	1211	M
599.00 > 99.00	4.363	4.365	-0.002	1.149	175786		2.64(1.28-3.84)		1018	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.397	4.387	0.010	1.000	1054061	1.08	Target=9.41	108	508	
563.00 > 169.00	4.397	4.387	0.010	1.000	107387		9.82(4.70-14.11)		1146	
D 30 13C2 PFUnA										M
565.00 > 520.00	4.397	4.387	0.010	1.261	1187893	1.07		85.9	2204	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.409	4.398	0.011	1.264	241358	1.35		108	1040	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.409	4.410	-0.001	1.000	171274	0.9455		94.6	1024	M
66 11-Chloroeicosafluoro-3-oxaundec										M
631.00 > 451.00	4.490	4.491	-0.001	1.182	1847086	0.8753		92.9	1694	M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.632	4.622	0.010	1.000	971116	1.04	Target=6.95	104	147	M
613.00 > 169.00	4.632	4.622	0.010	1.000	149461		6.50(3.48-10.43)		1313	
D 36 13C2 PFDoA										M
615.00 > 570.00	4.632	4.633	-0.001	1.328	1137115	0.9619		77.0	1758	M
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.653	4.654	-0.001	1.125	111467	0.8913		92.5	1041	
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.802	4.803	-0.001	1.264	187127	0.7724	Target=0.55	79.8	1203	
699.00 > 99.00	4.812	4.803	0.009	1.267	369862		0.51(0.27-0.82)		1988	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.847	4.848	-0.001	1.046	833943	1.04	Target=4.44	104	134	M
663.00 > 169.00	4.847	4.848	-0.001	1.046	168316		4.95(2.22-6.66)		926	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.041	5.032	0.009	1.000	106664	0.9345	Target=0.96	93.5	803	M
713.00 > 219.00	5.031	5.032	-0.001	0.998	118190		0.90(0.48-1.44)		974	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.041	5.042	-0.001	1.445	923356	0.9557		76.5	1764	M

Report Date: 14-Jun-2022 14:35:13 Chrom Revision: 2.3 18-May-2022 20:00:04
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										M
815.00 > 770.00	5.399	5.389	0.010	1.548	1091309	1.09		87.2	1495	M
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.399	5.400	-0.001	1.000	792393	1.01	Target=4.90	101	164	M
813.00 > 169.00	5.399	5.400	-0.001	1.000	157774		5.02(2.45-7.36)		1455	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.730	5.731	-0.001	1.061	568033	0.9340	Target=4.81	93.4	140	M
913.00 > 169.00	5.730	5.731	-0.001	1.061	105322		5.39(2.40-7.21)		411	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 14-Jun-2022 14:35:13 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d

Injection Date: 13-Jun-2022 18:06:14 Instrument ID: LC812

Lims ID: LCSD 200-180717/3-A

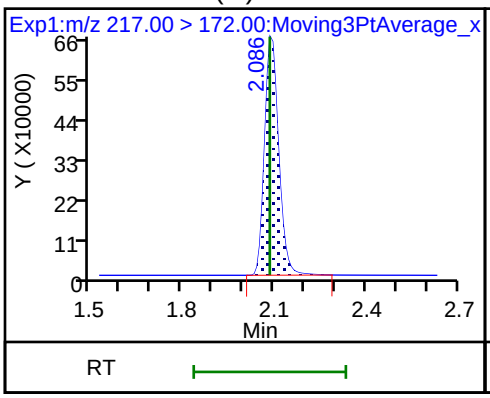
Client ID:

Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8

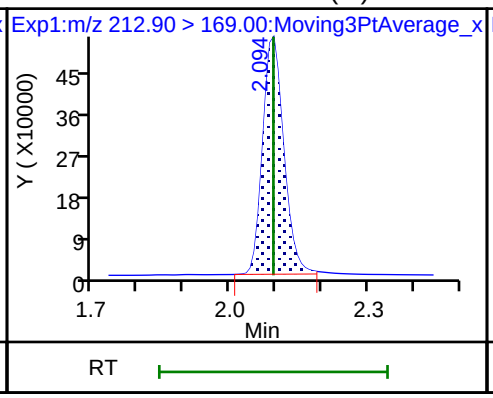
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

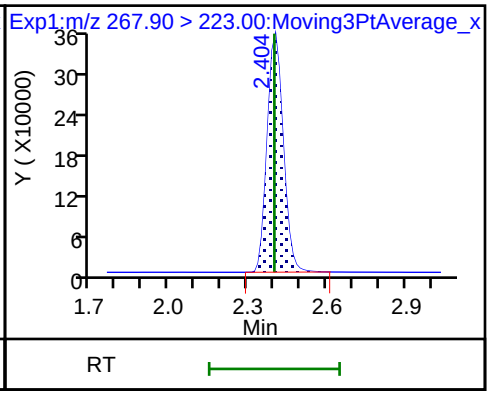
D 1 13C4 PFBA (M)



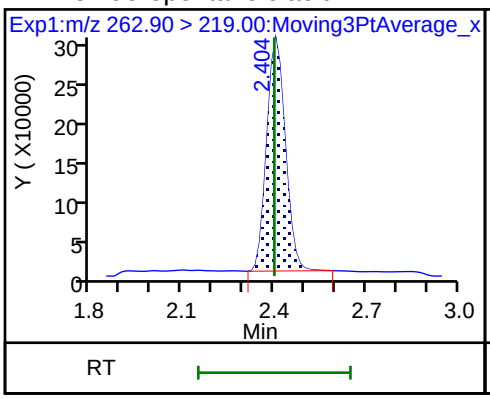
2 Perfluorobutanoic acid (M)



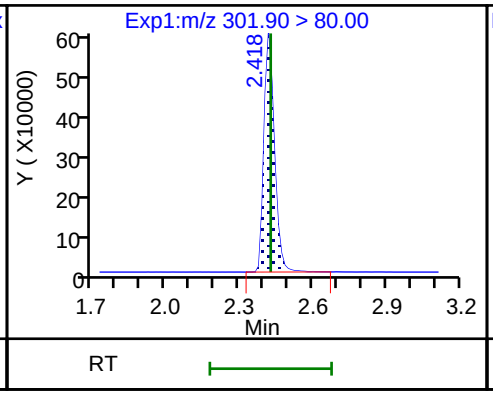
D 3 13C5 PFPeA



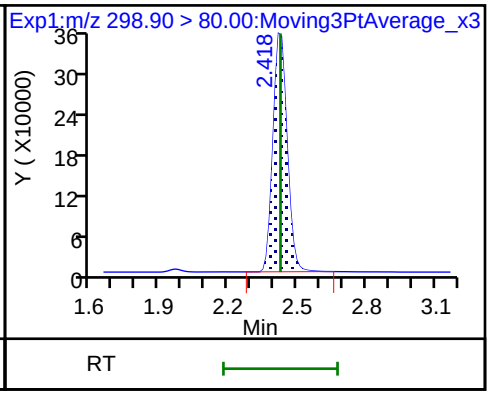
4 Perfluoropentanoic acid



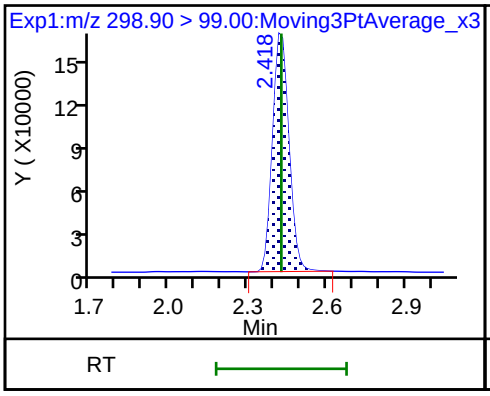
D 47 13C3 PFBS



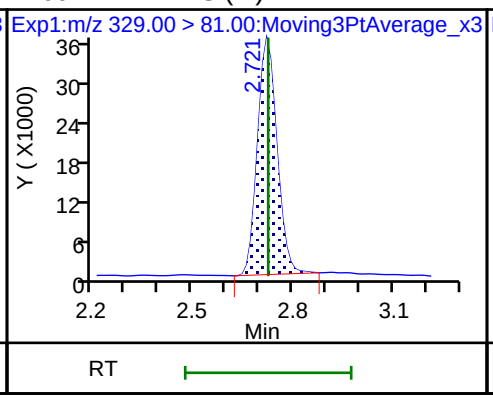
5 Perfluorobutanesulfonic acid



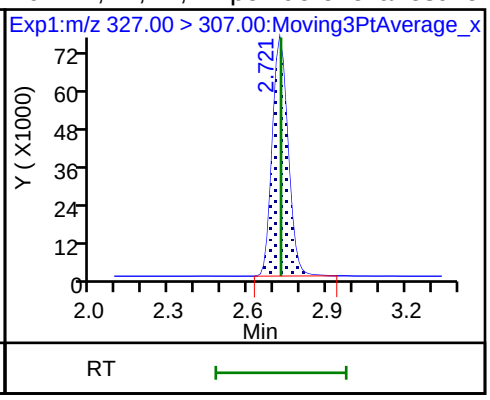
5 Perfluorobutanesulfonic acid



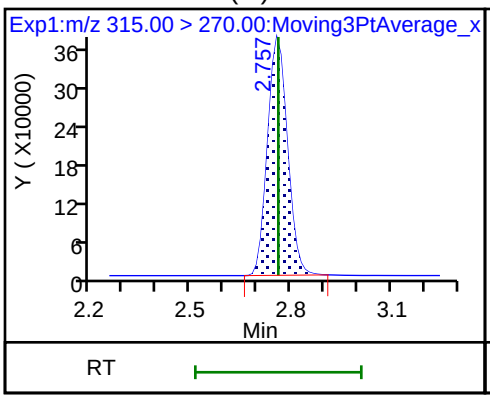
D 60 M2-4:2 FTS (M)



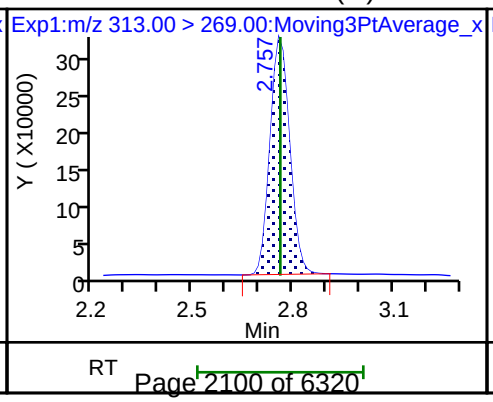
61 1H,1H,2H,2H-perfluorohexanesulfo



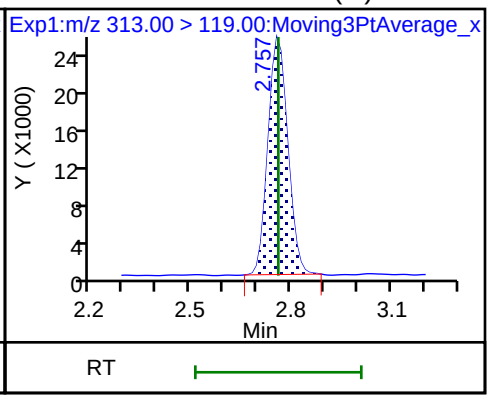
D 7 13C2 PFHxA (M)



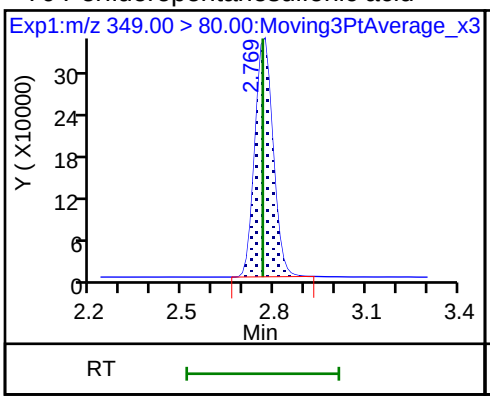
6 Perfluorohexanoic acid (M)



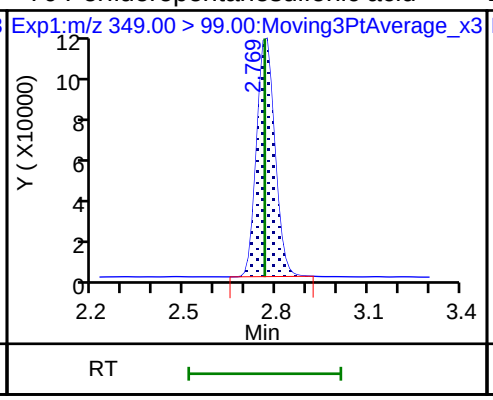
6 Perfluorohexanoic acid (M)



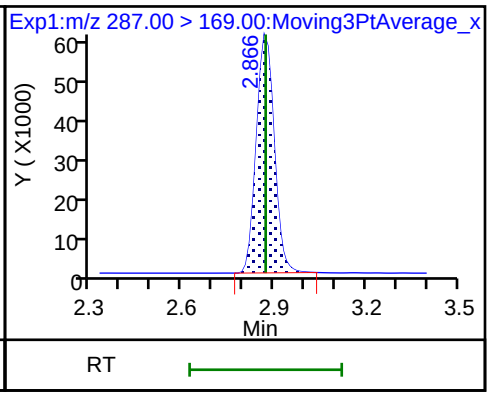
70 Perfluoropentanesulfonic acid



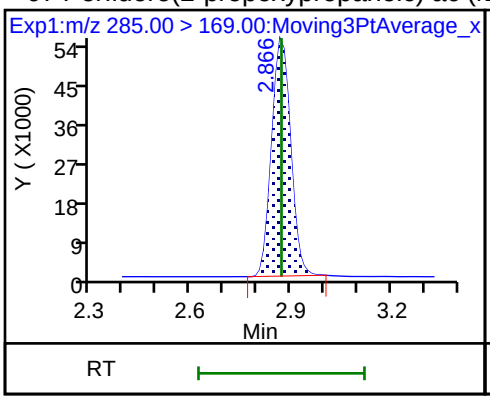
70 Perfluoropentanesulfonic acid



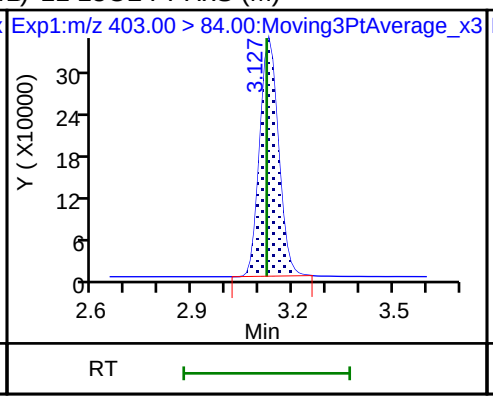
D 64 13C3 HFPO-DA



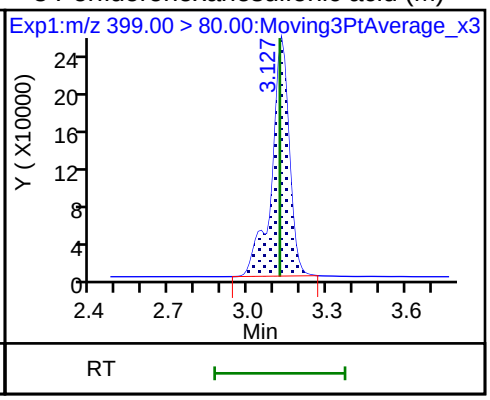
67 Perfluoro(2-propoxypropanoic) ac (M)



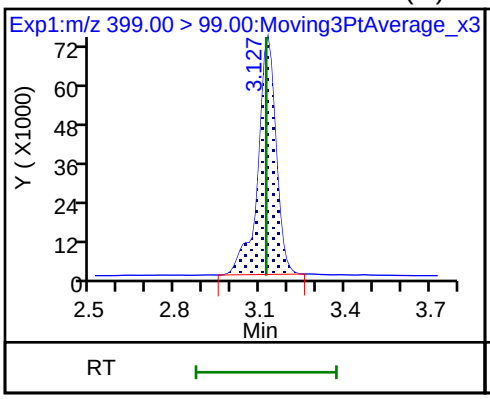
D 11 18O2 PFHxS (M)



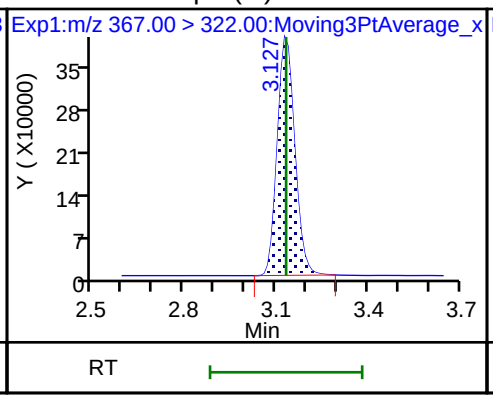
8 Perfluorohexanesulfonic acid (M)



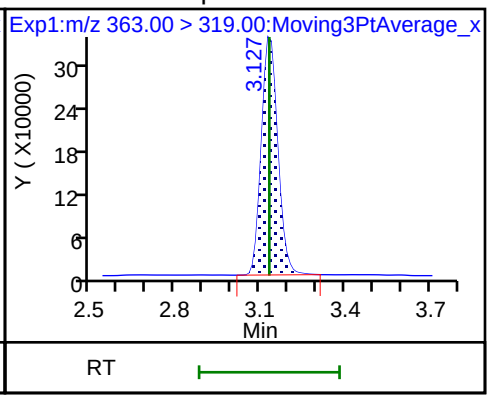
8 Perfluorohexanesulfonic acid (M)



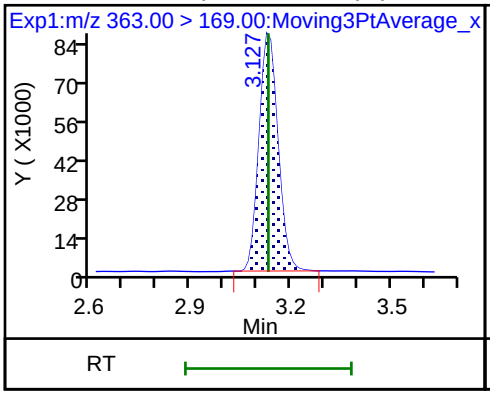
D 9 13C4 PFHpA (M)



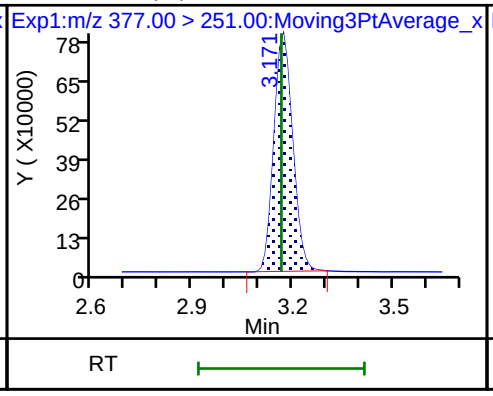
10 Perfluoroheptanoic acid



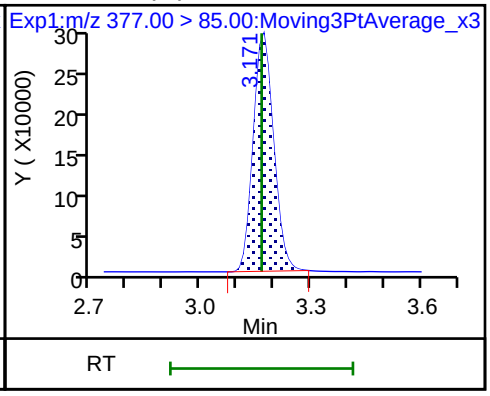
10 Perfluoroheptanoic acid (M)



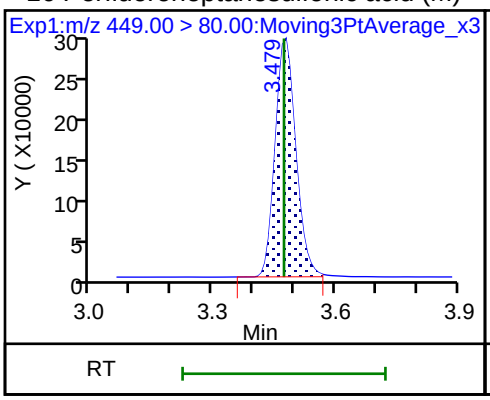
77 DONA (M)



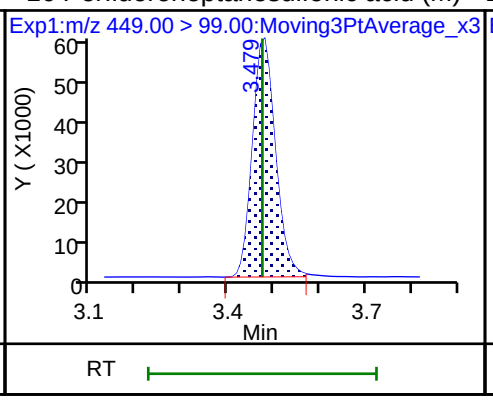
77 DONA (M)



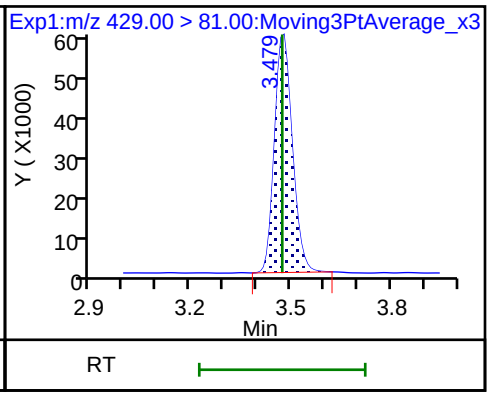
16 Perfluoroheptanesulfonic acid (M)



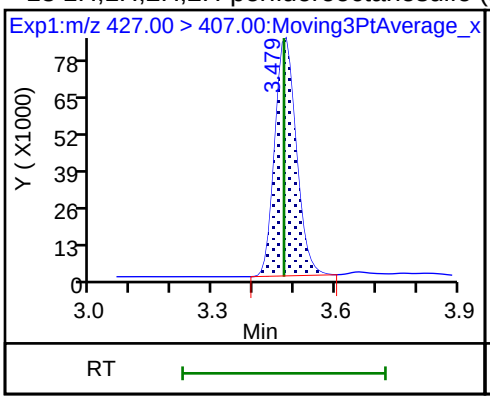
16 Perfluoroheptanesulfonic acid (M)



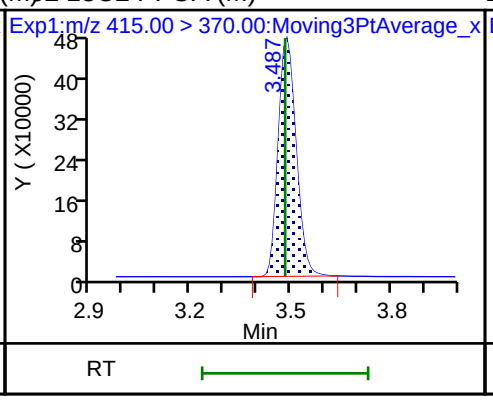
D 12 M2-6:2 FTS



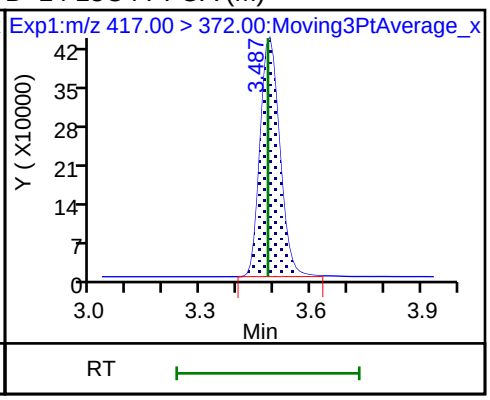
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



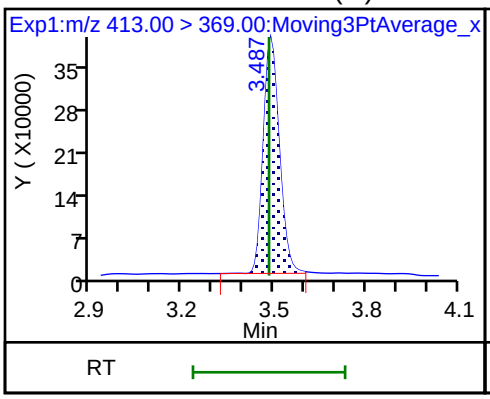
M2 13C2 PFOA (M)



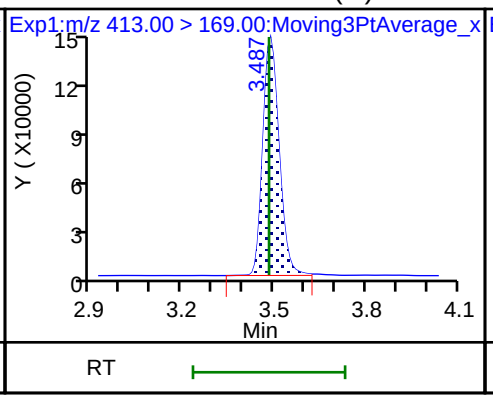
D 14 13C4 PFOA (M)



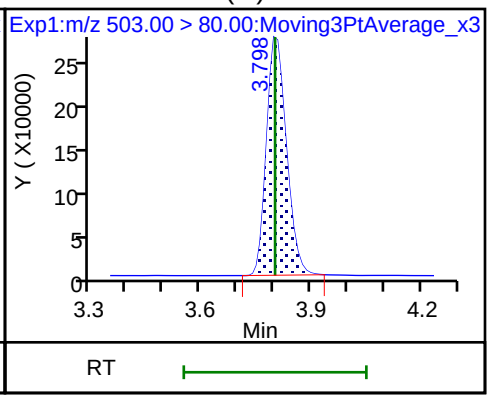
15 Perfluorooctanoic acid (M)



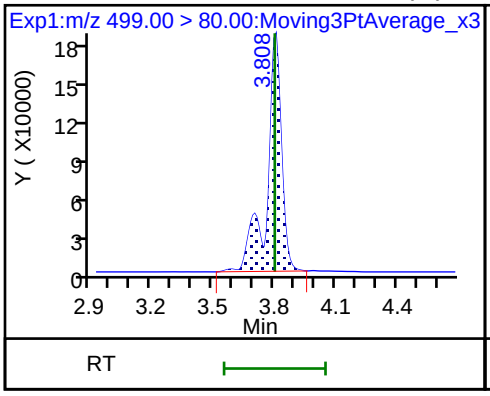
15 Perfluorooctanoic acid (M)



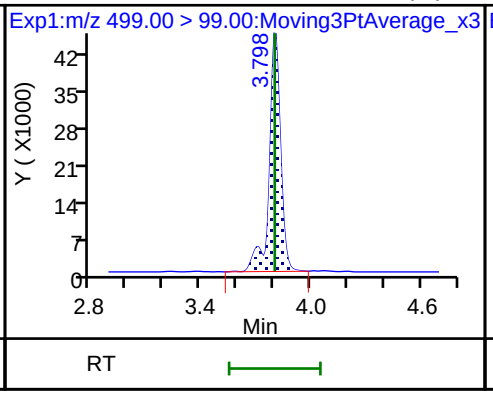
D 18 13C4 PFOS (M)



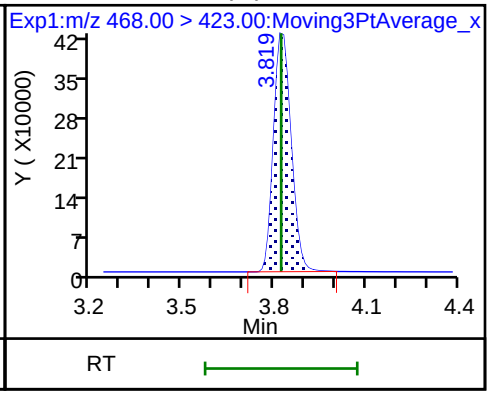
17 Perfluorooctanesulfonic acid (M)



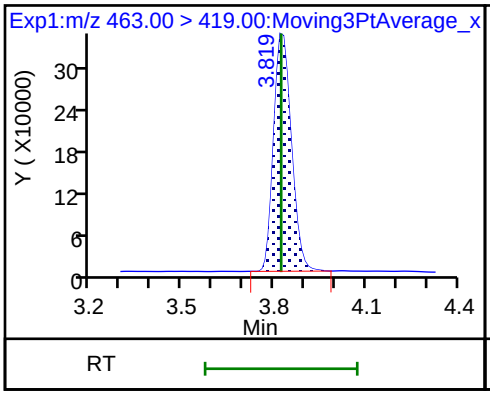
17 Perfluorooctanesulfonic acid (M)



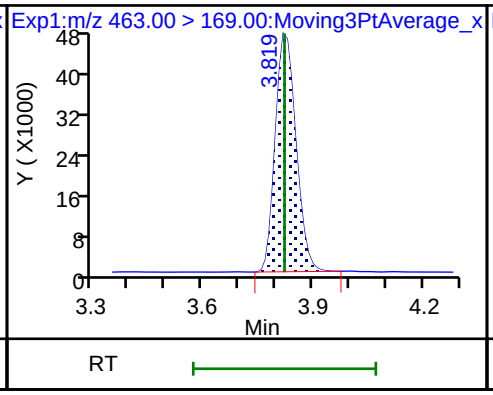
D 19 13C5 PFNA (M)



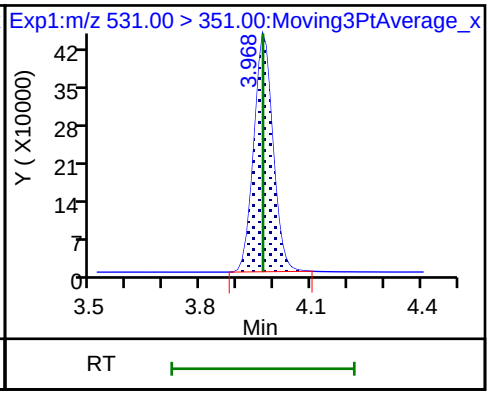
20 Perfluorononanoic acid



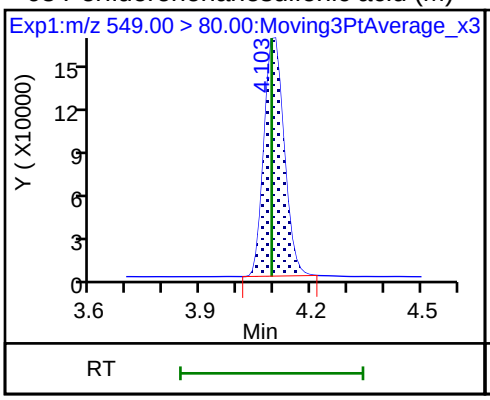
20 Perfluorononanoic acid



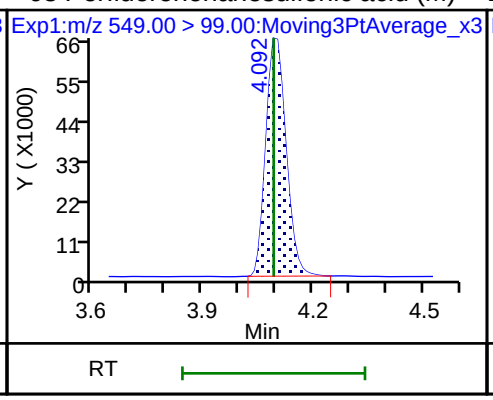
69 9-Chlorohexadecafluoro-3-oxanona (M)



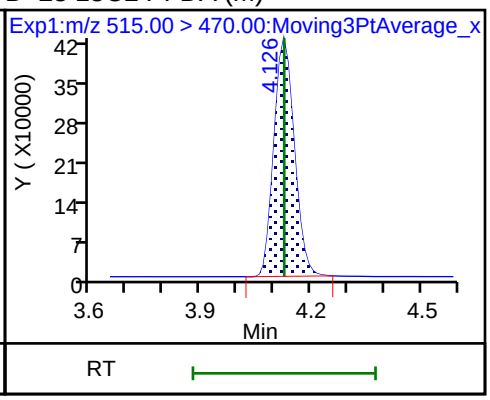
68 Perfluorononanesulfonic acid (M)



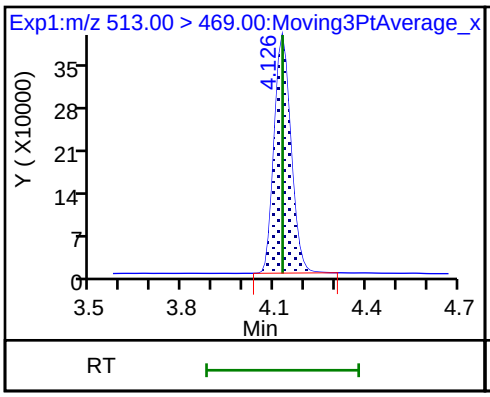
68 Perfluorononanesulfonic acid (M)



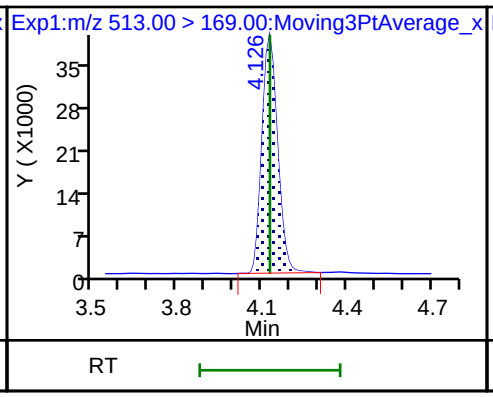
D 23 13C2 PFDA (M)



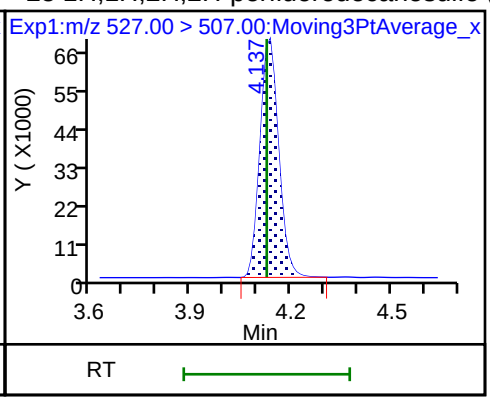
24 Perfluorodecanoic acid



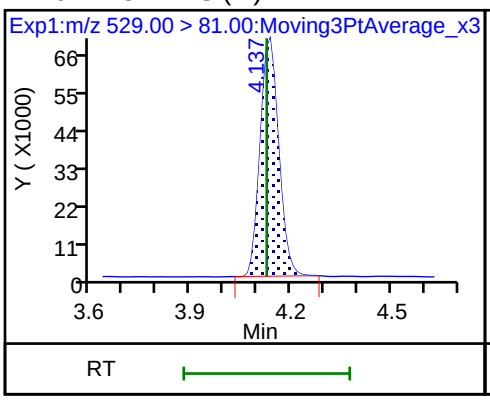
24 Perfluorodecanoic acid



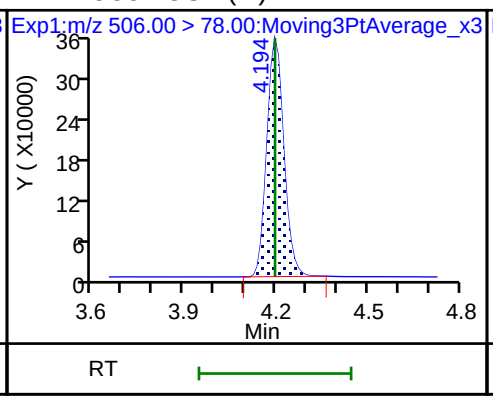
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



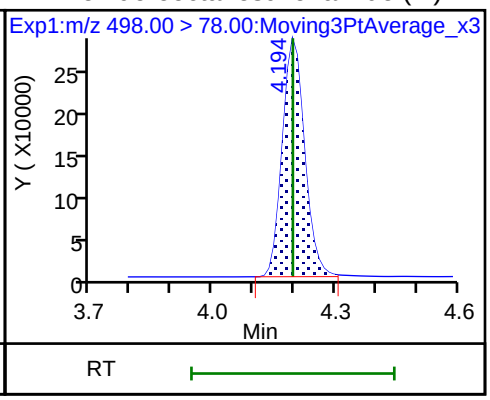
D 26 M2-8:2 FTS (M)



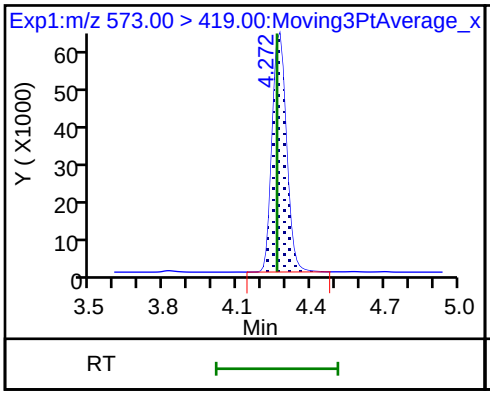
D 21 13C8 FOSA (M)



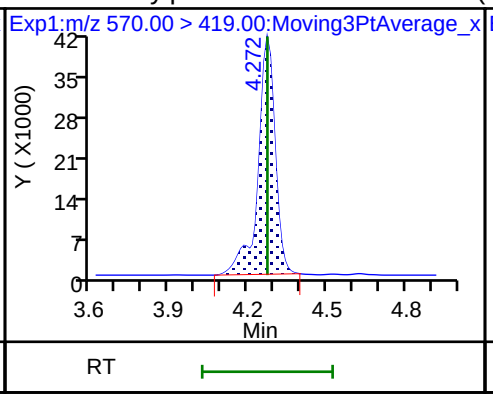
22 Perfluorooctanesulfonamide (M)



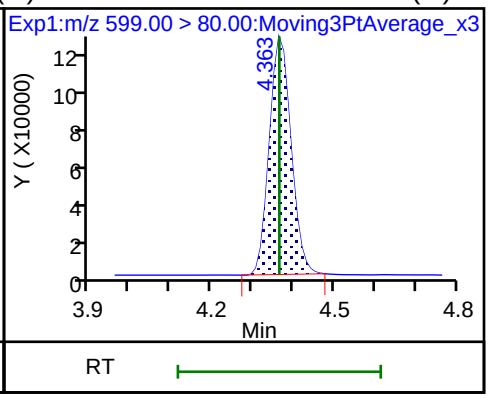
D 27 d3-NMeFOSAA



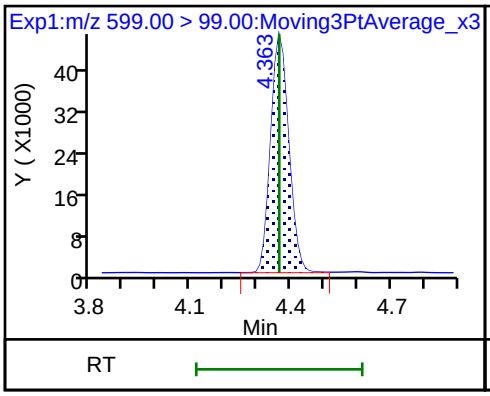
28 N-methylperfluorooctanesulfonami (M)



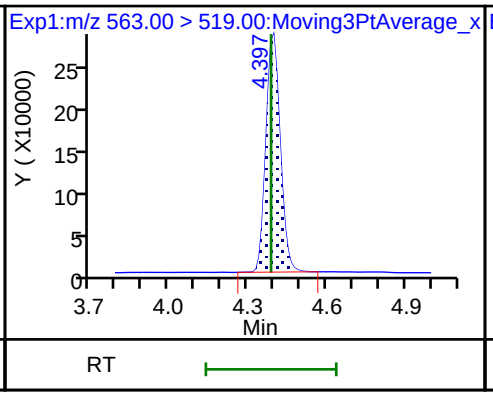
29 Perfluorodecanesulfonic acid (M)



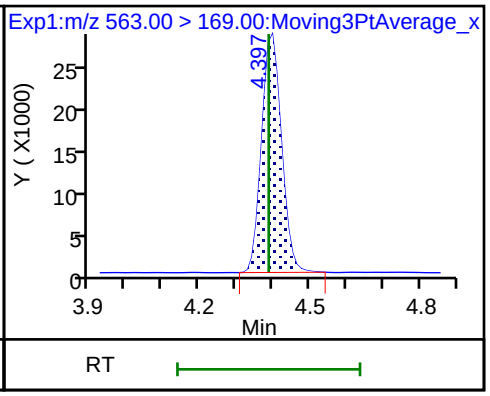
29 Perfluorodecanesulfonic acid



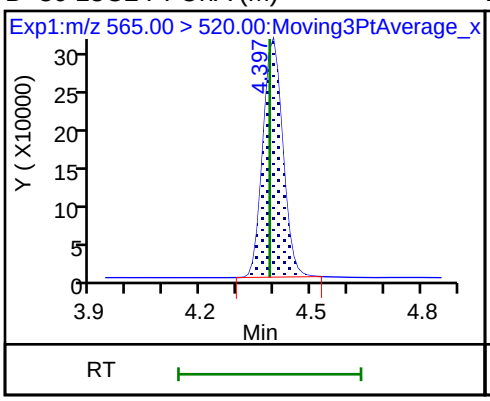
31 Perfluoroundecanoic acid



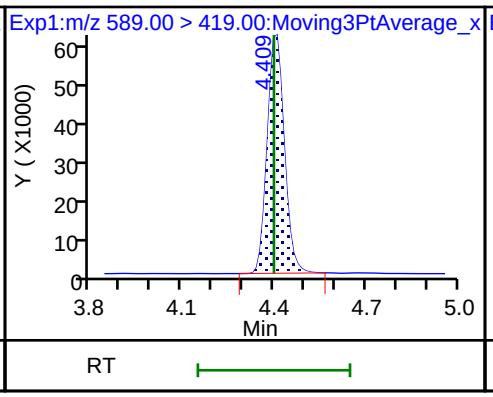
31 Perfluoroundecanoic acid



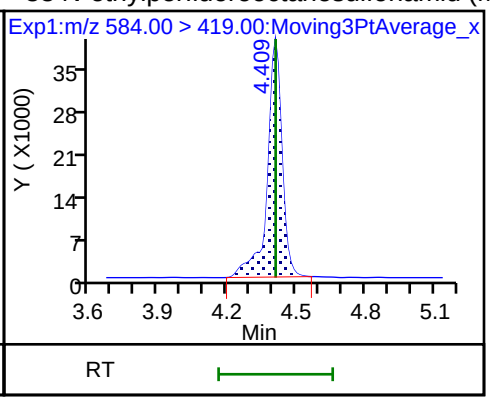
D 30 13C2 PFUnA (M)



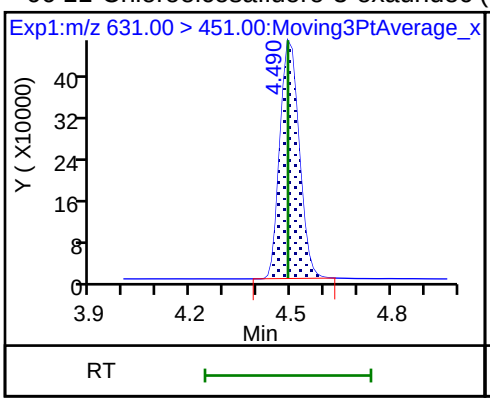
D 32 d5-NEtFOSAA



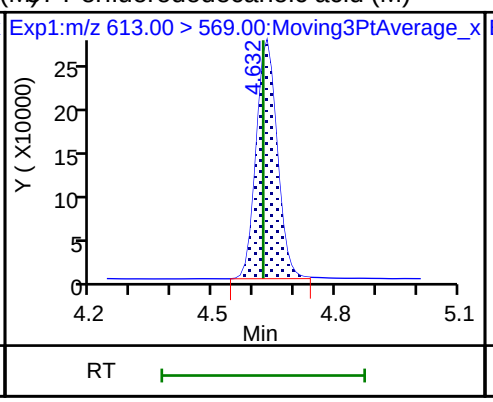
33 N-ethylperfluorooctanesulfonamid (M)



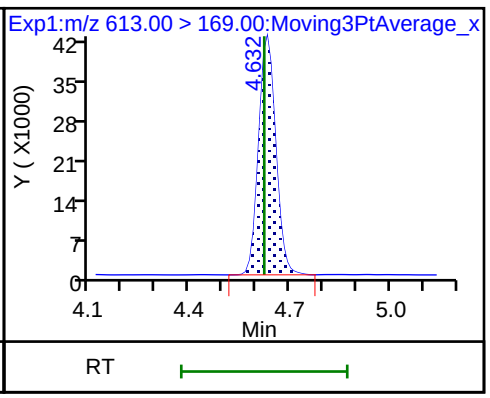
66 11-Chloroeicosafluoro-3-oxaundec (M)



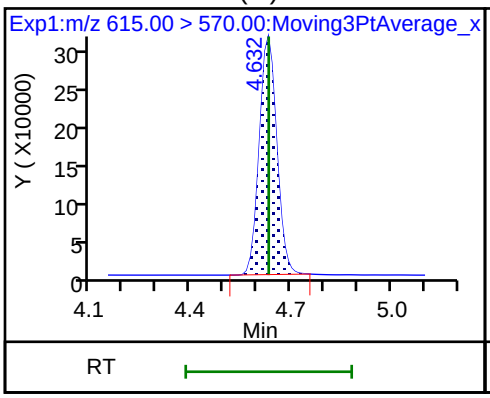
37 Perfluorododecanoic acid (M)



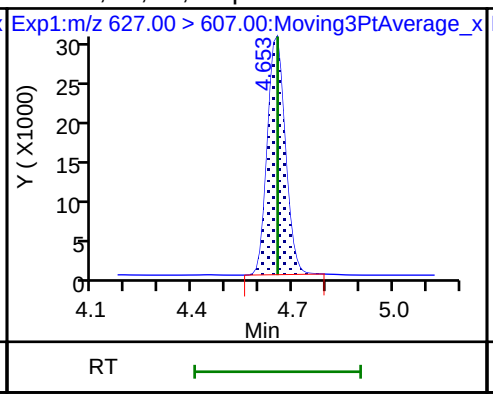
37 Perfluorododecanoic acid



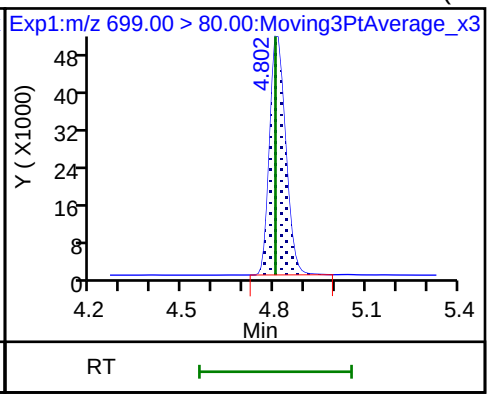
D 36 13C2 PFDoA (M)



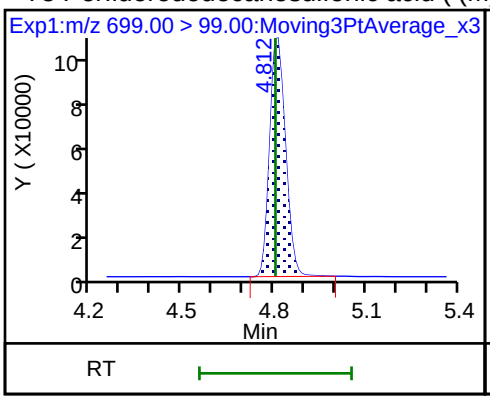
74 1H,1H,2H,2H-perfluorododecanesul



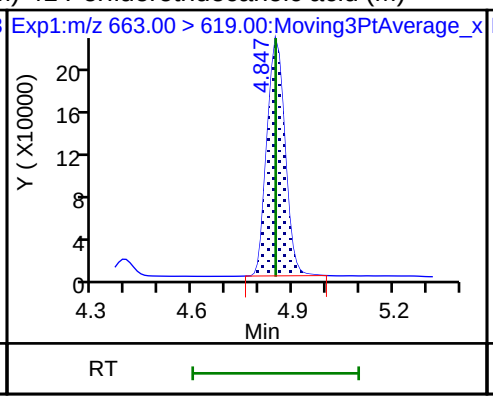
75 Perfluorododecanesulfonic acid (



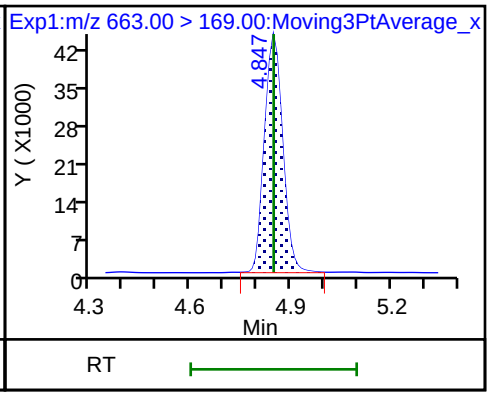
75 Perfluorododecanesulfonic acid ((M)



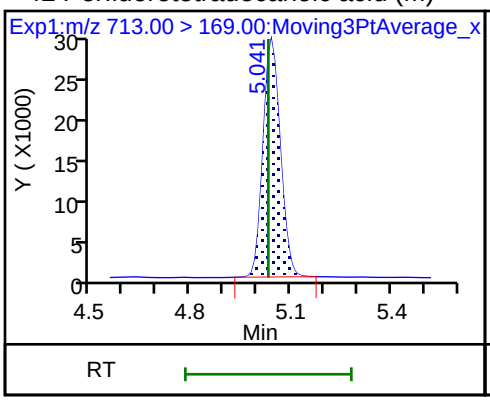
41 Perfluorotridecanoic acid (M)



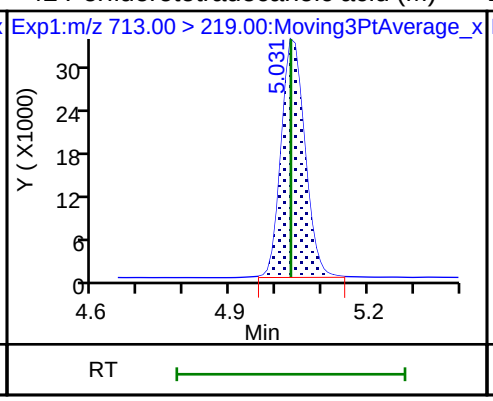
41 Perfluorotridecanoic acid



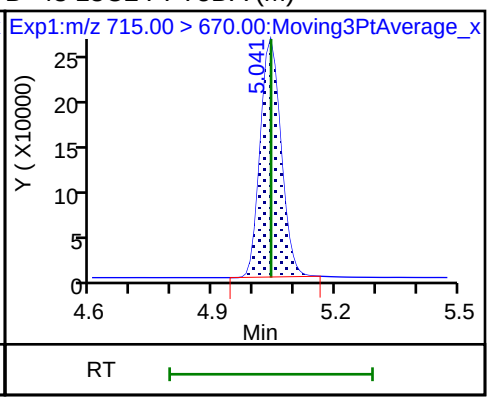
42 Perfluorotetradecanoic acid (M)



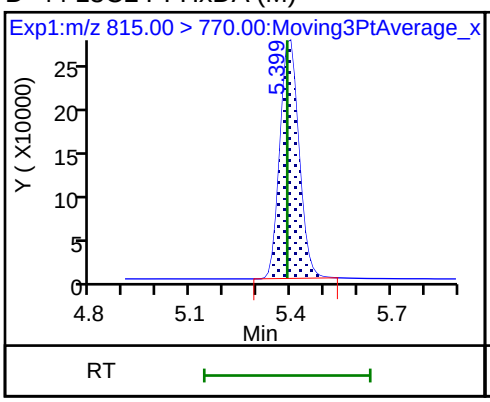
42 Perfluorotetradecanoic acid (M)



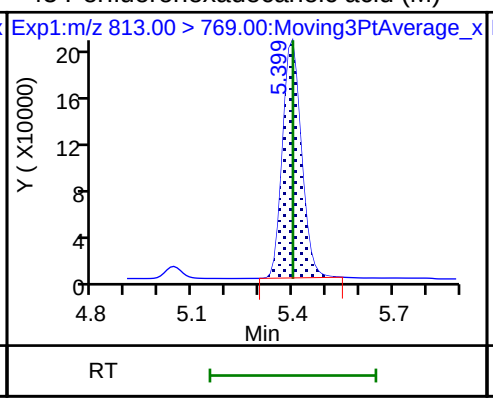
D 43 13C2 PFTeDA (M)



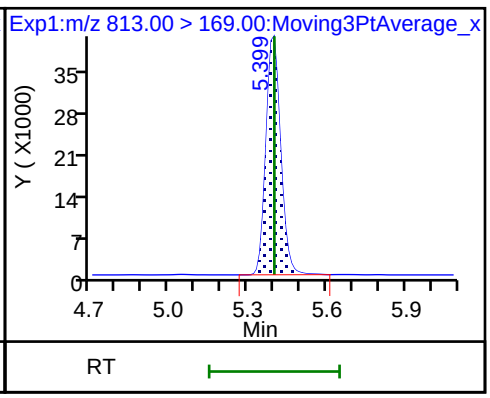
D 44 13C2 PFHxDA (M)



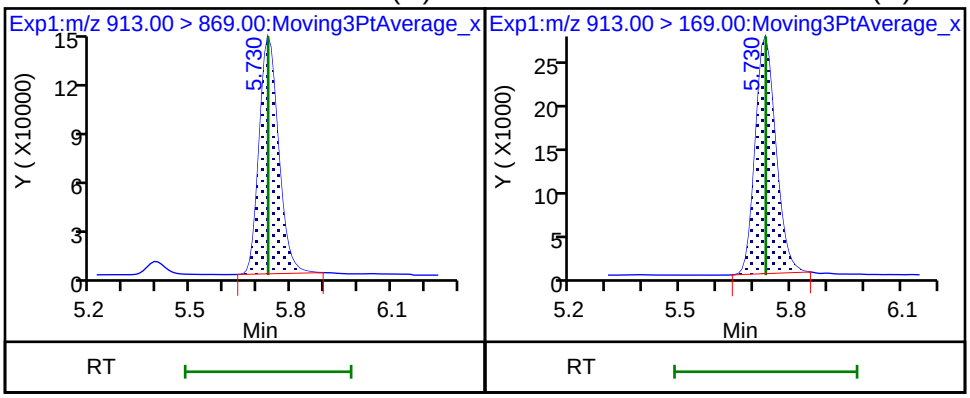
45 Perfluorohexadecanoic acid (M)



45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid (M) 46 Perfluorooctadecanoic acid (M)



Eurofins Burlington

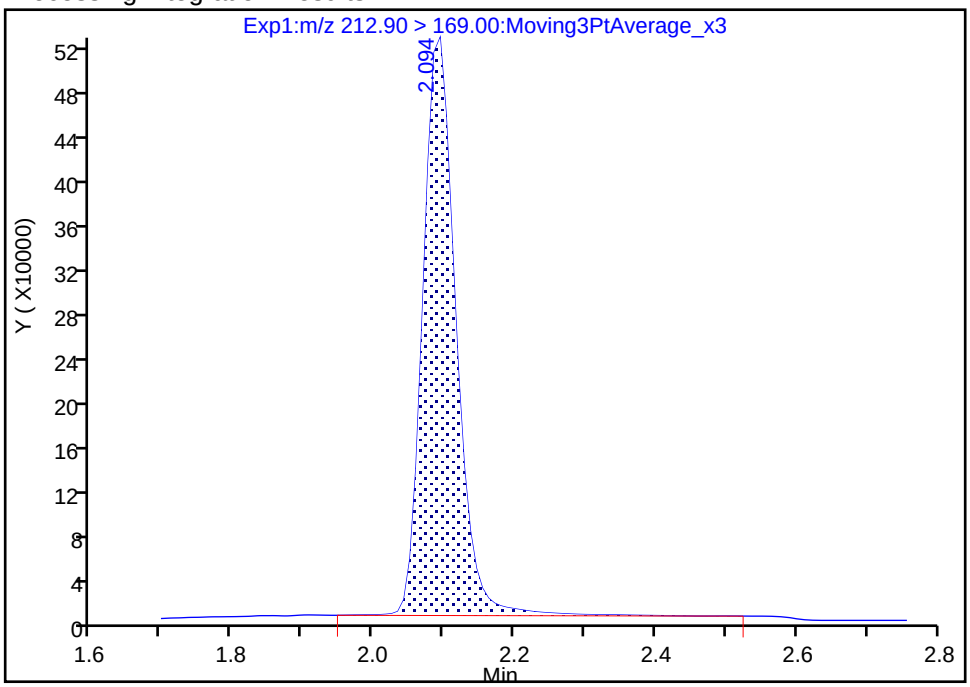
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d
Injection Date: 13-Jun-2022 18:06:14 Instrument ID: LC812
Lims ID: LCSD 200-180717/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

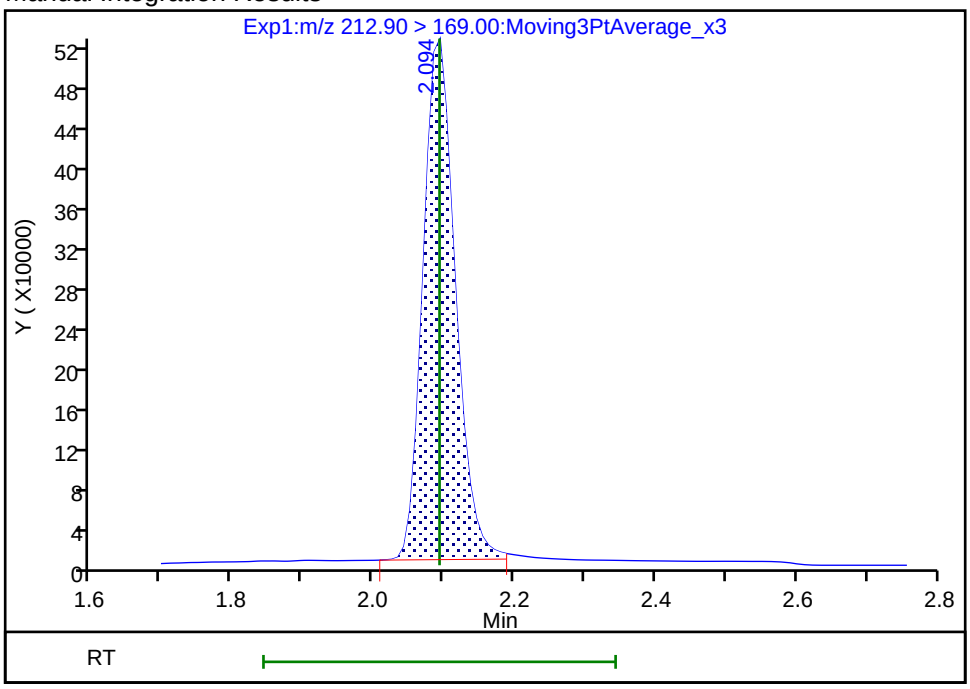
Processing Integration Results

RT: 2.09
Area: 1687644
Amount: 1.050650
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 1646060
Amount: 1.030026
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:41:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

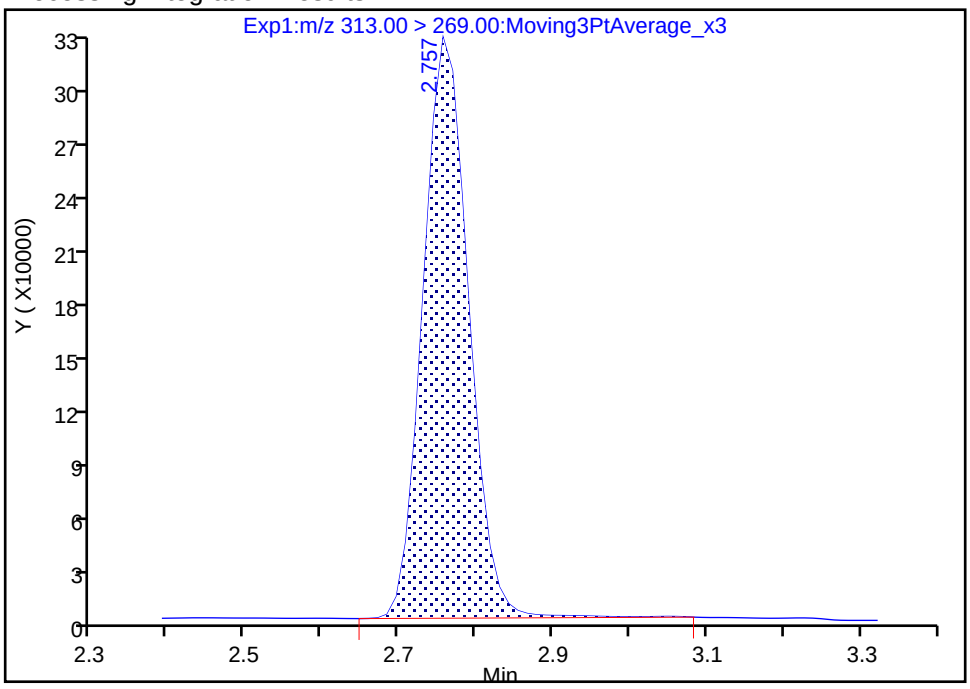
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d
Injection Date: 13-Jun-2022 18:06:14 Instrument ID: LC812
Lims ID: LCSD 200-180717/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

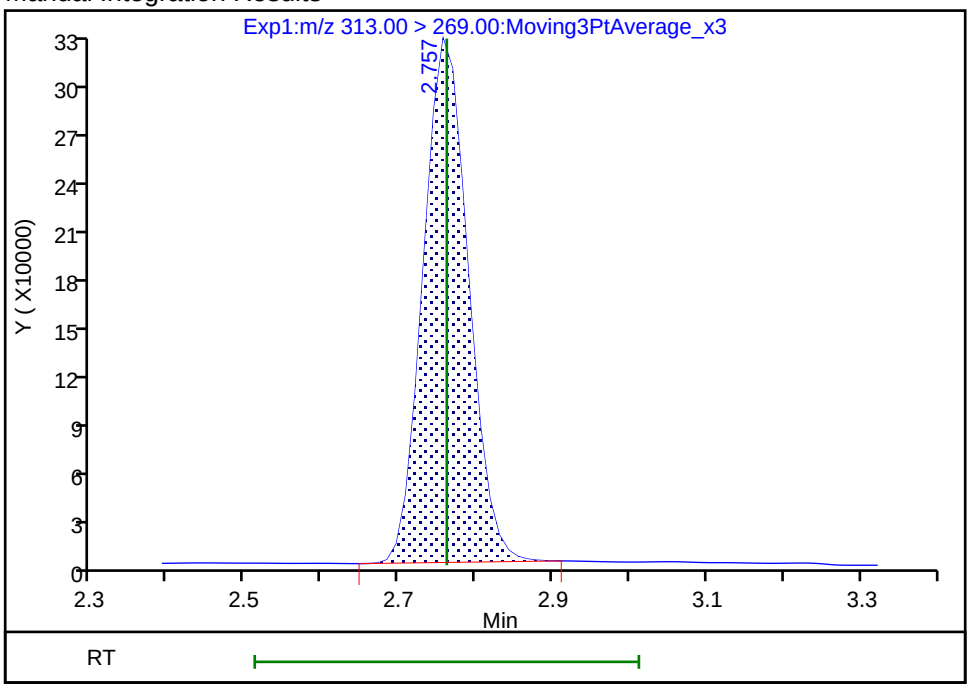
Processing Integration Results

RT: 2.76
Area: 1348310
Amount: 1.015313
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 1333149
Amount: 1.010713
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:07:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

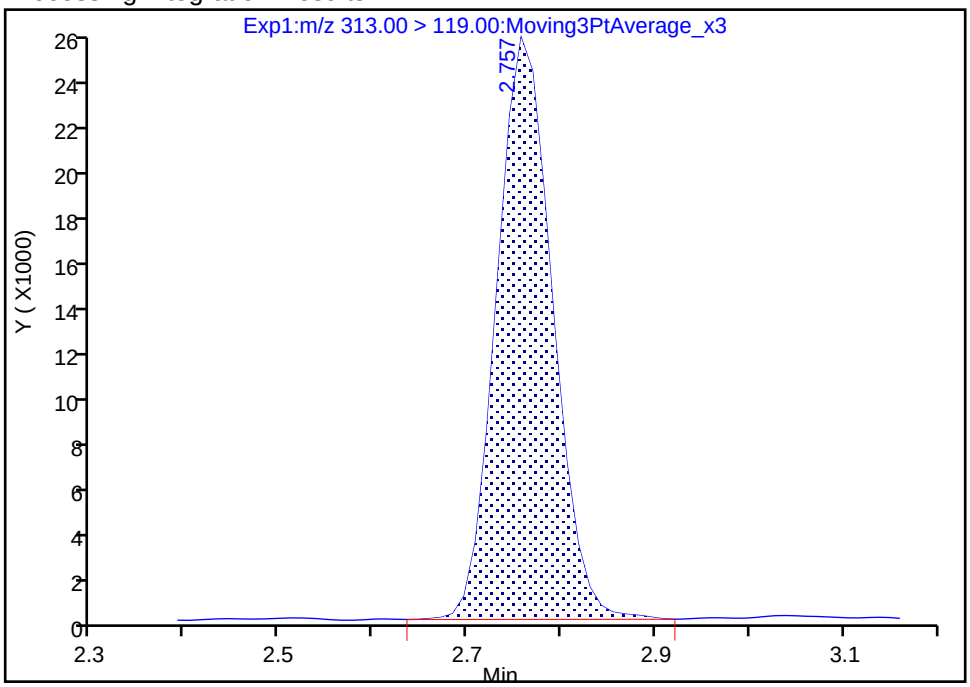
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d
Injection Date: 13-Jun-2022 18:06:14 Instrument ID: LC812
Lims ID: LCSD 200-180717/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

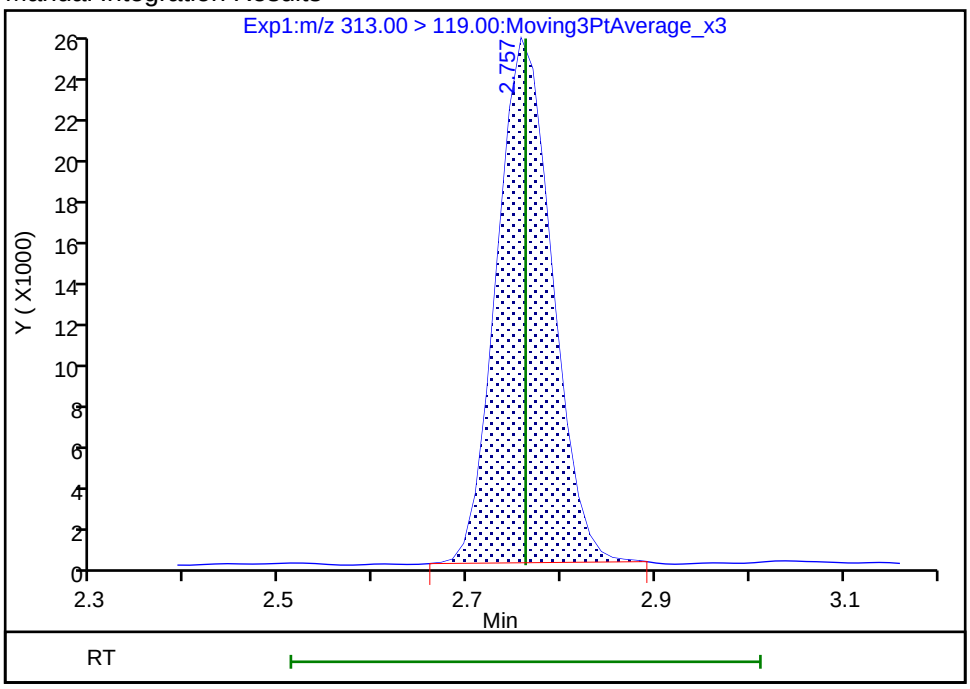
Processing Integration Results

RT: 2.76
Area: 104661
Amount: 1.015313
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 103409
Amount: 1.010713
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:41:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

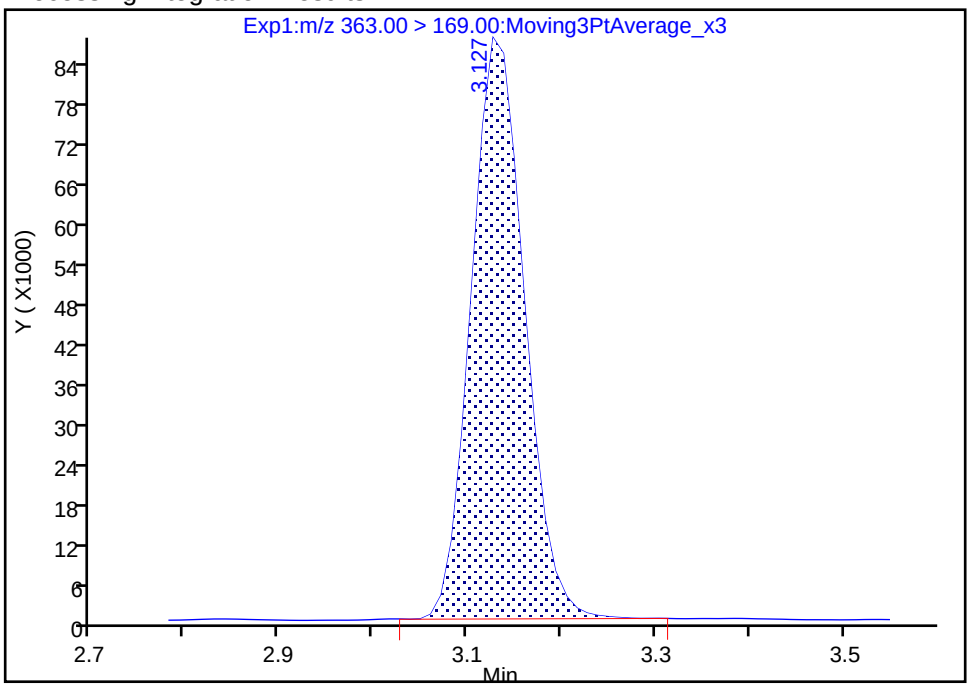
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d
Injection Date: 13-Jun-2022 18:06:14 Instrument ID: LC812
Lims ID: LCSD 200-180717/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

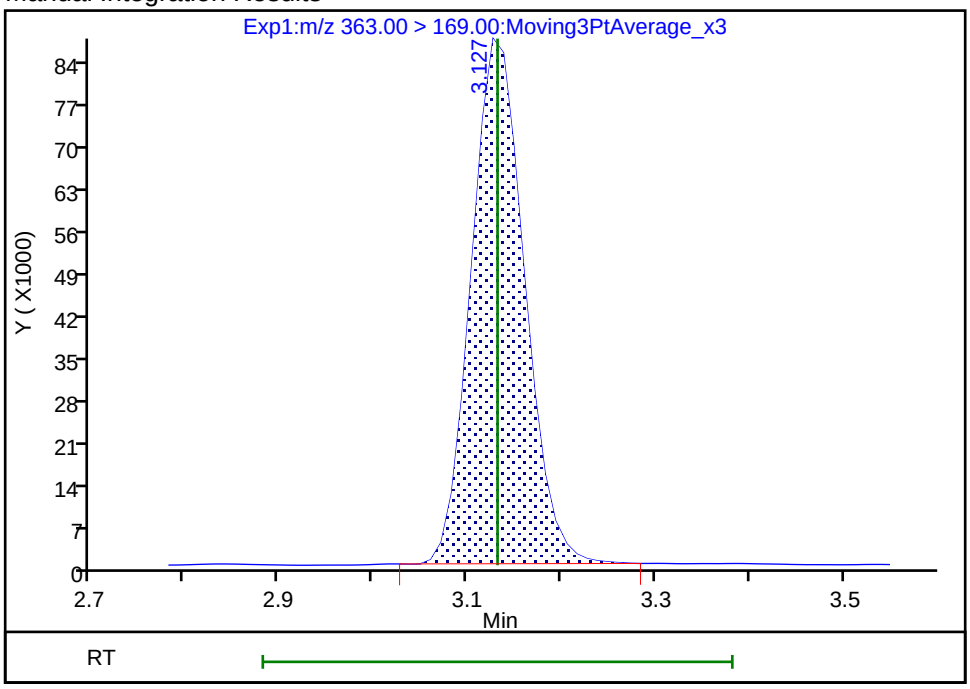
Processing Integration Results

RT: 3.13
Area: 344105
Amount: 1.077346
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 343564
Amount: 1.077346
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:42:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

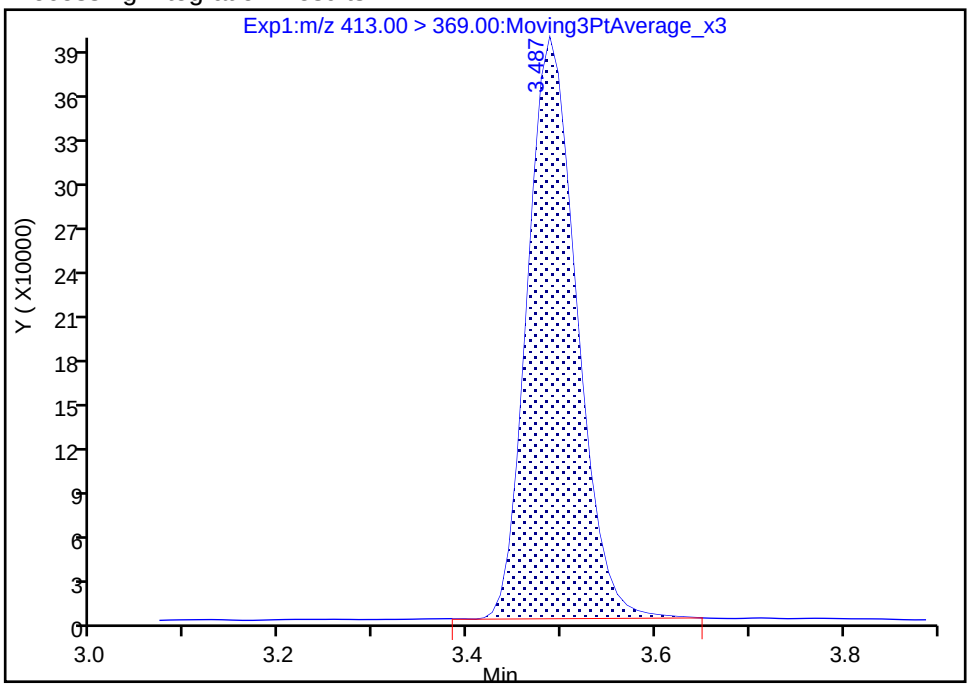
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d
Injection Date: 13-Jun-2022 18:06:14 Instrument ID: LC812
Lims ID: LCSD 200-180717/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

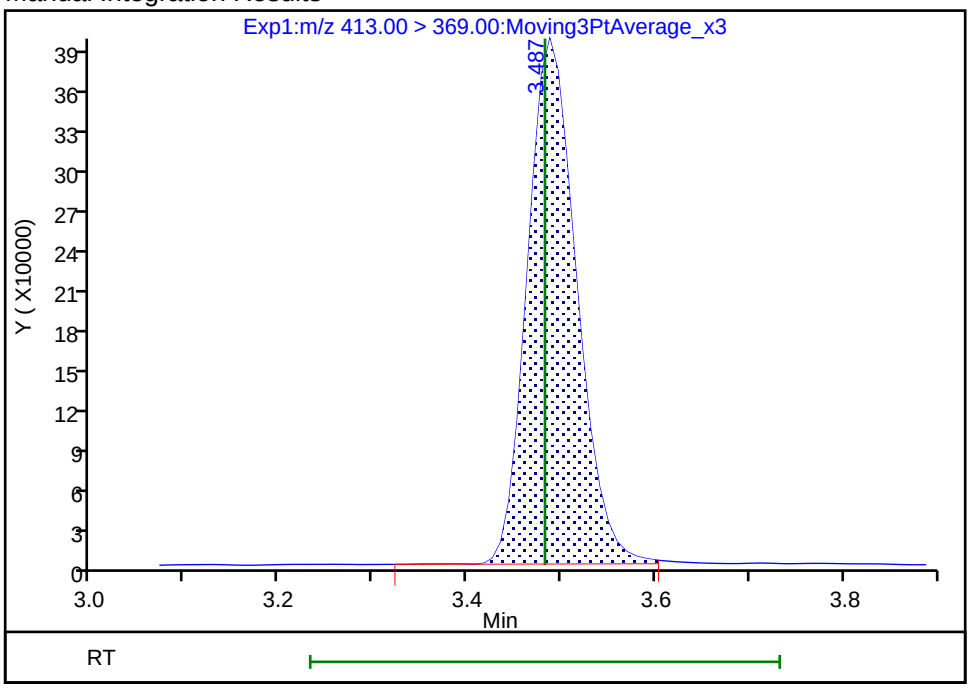
Processing Integration Results

RT: 3.49
Area: 1408103
Amount: 0.978714
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 1408582
Amount: 0.979047
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:08:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

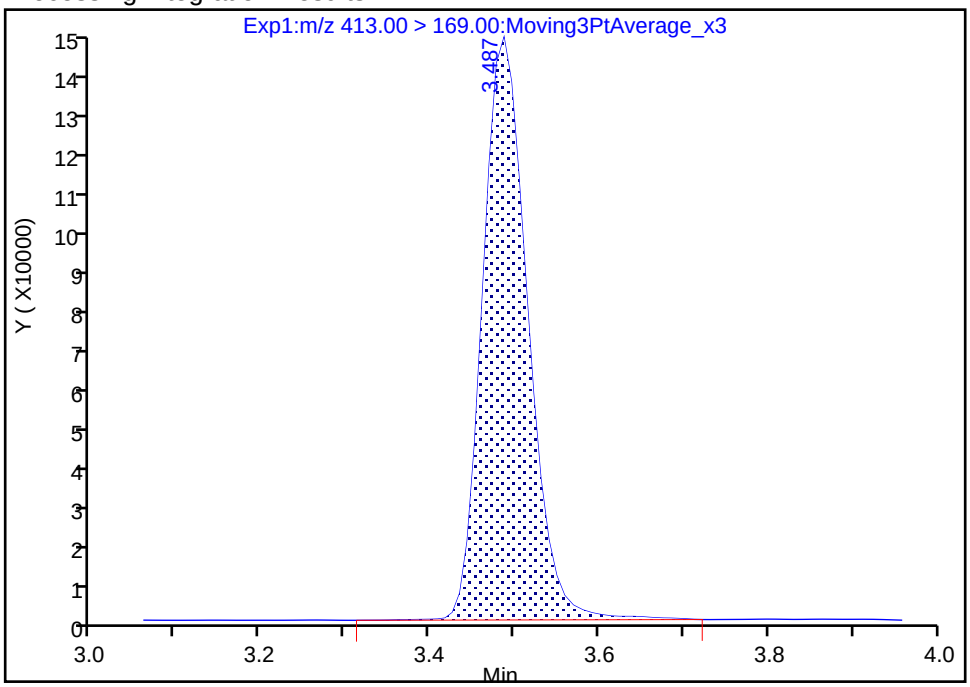
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d				
Injection Date:	13-Jun-2022 18:06:14	Instrument ID:	LC812		
Lims ID:	LCSD 200-180717/3-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

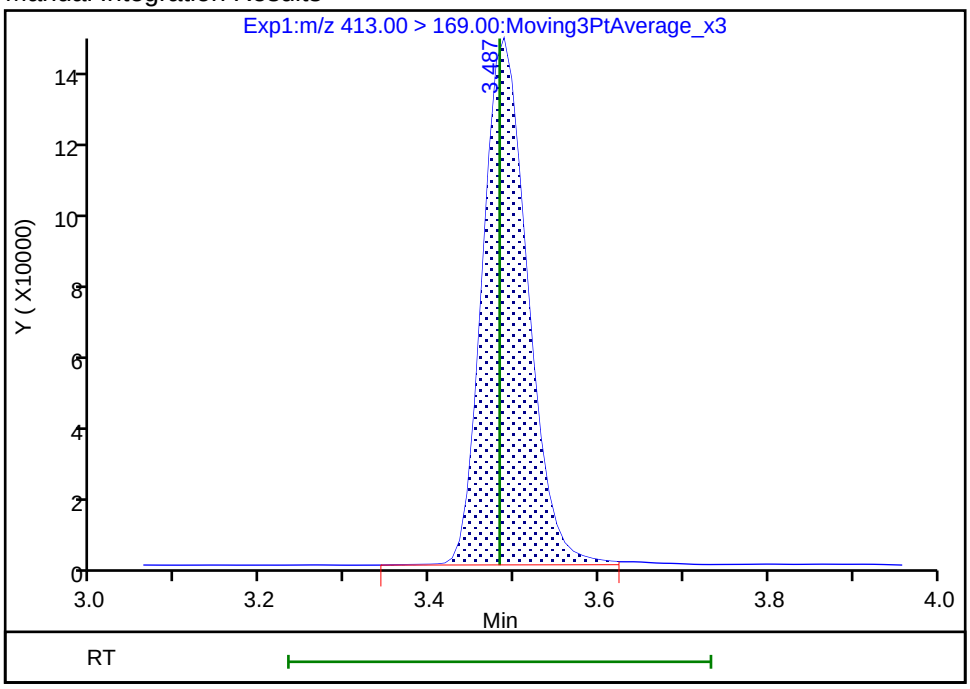
Processing Integration Results

RT: 3.49
Area: 538834
Amount: 0.978714
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 536250
Amount: 0.979047
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:09:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

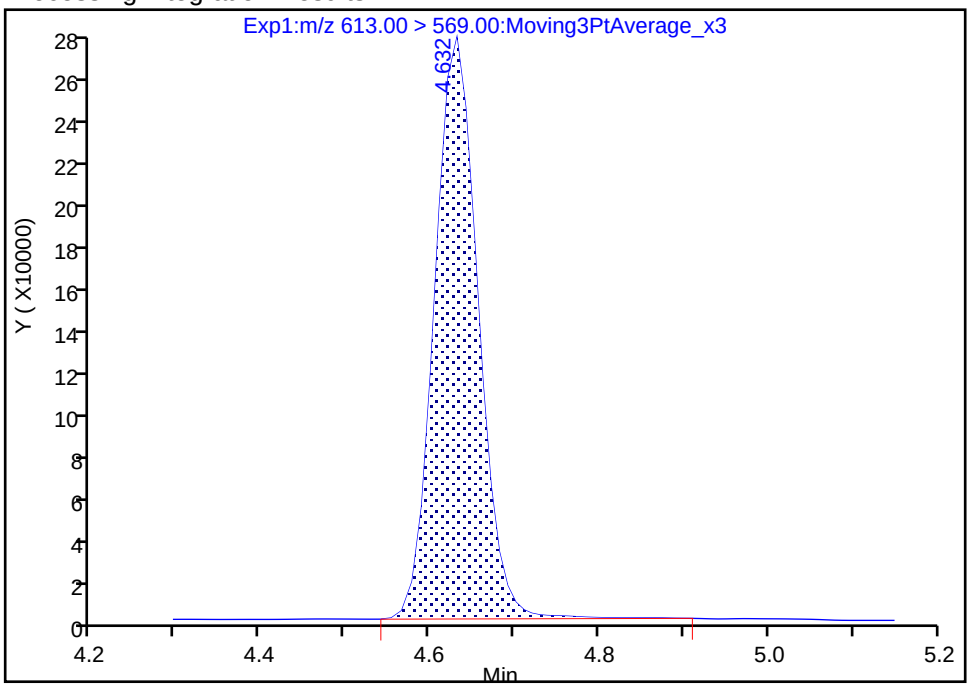
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d
Injection Date: 13-Jun-2022 18:06:14 Instrument ID: LC812
Lims ID: LCSD 200-180717/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

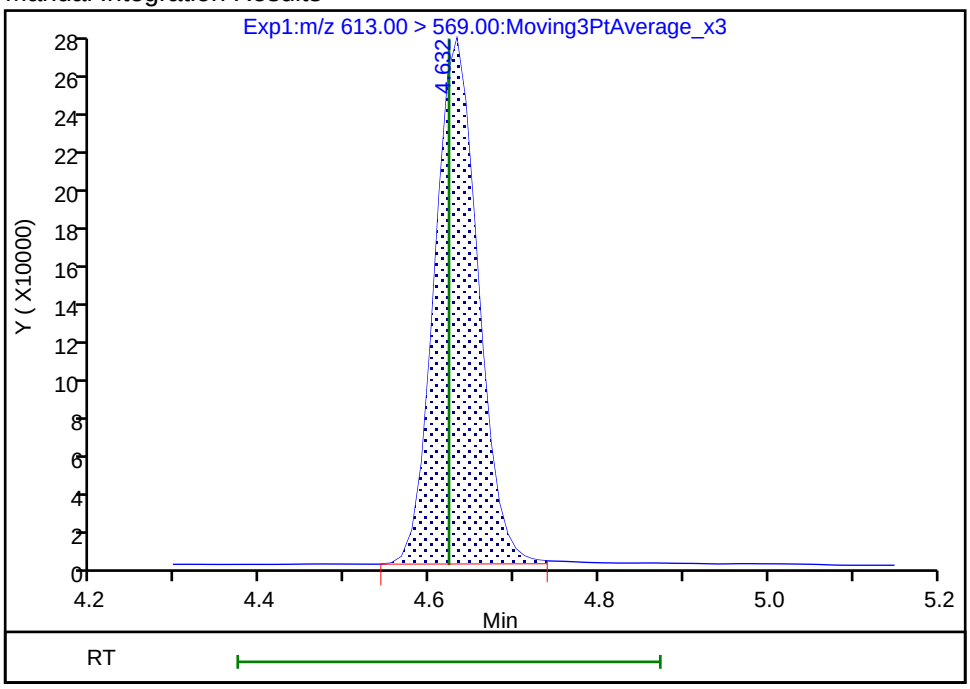
Processing Integration Results

RT: 4.63
Area: 976325
Amount: 1.027969
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 971116
Amount: 1.035059
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:11:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

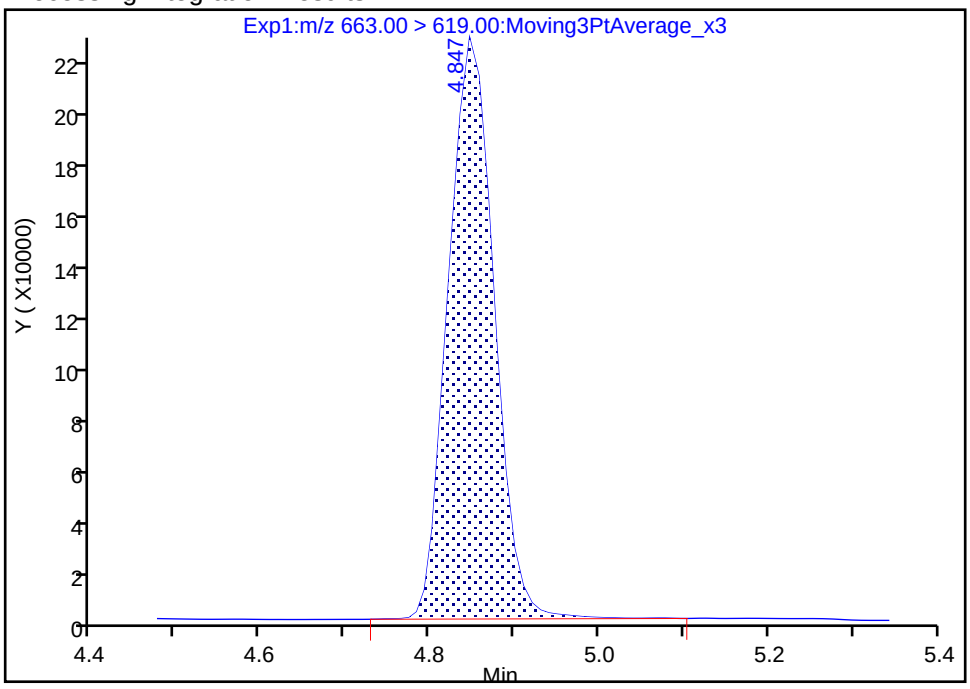
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d				
Injection Date:	13-Jun-2022 18:06:14	Instrument ID:	LC812		
Lims ID:	LCSD 200-180717/3-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

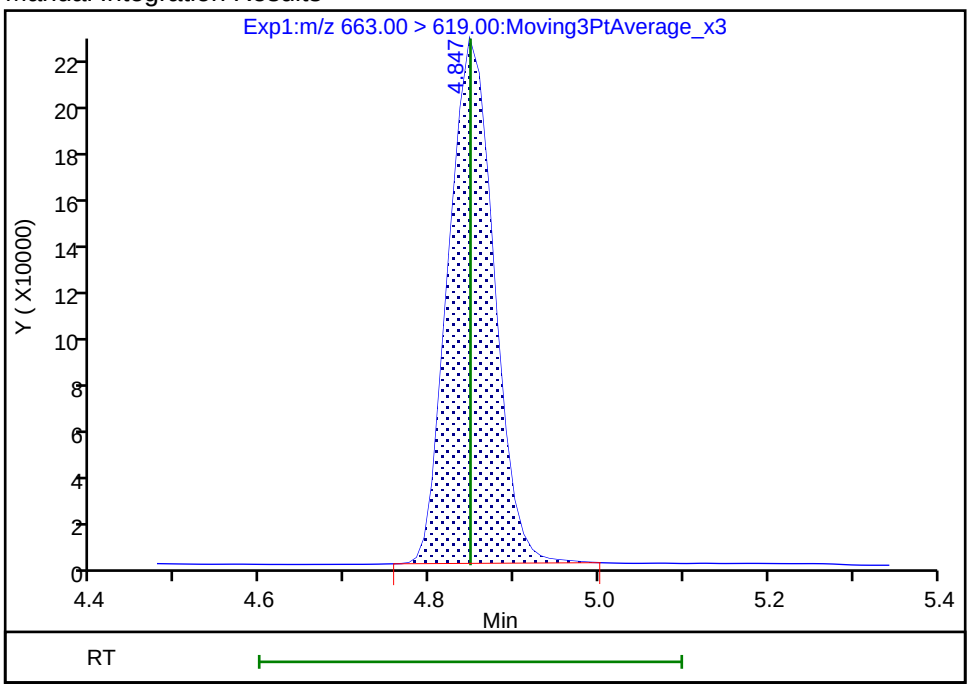
Processing Integration Results

RT: 4.85
Area: 839608
Amount: 1.037951
Amount Units: ng/ml



Manual Integration Results

RT: 4.85
Area: 833943
Amount: 1.043626
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:11:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

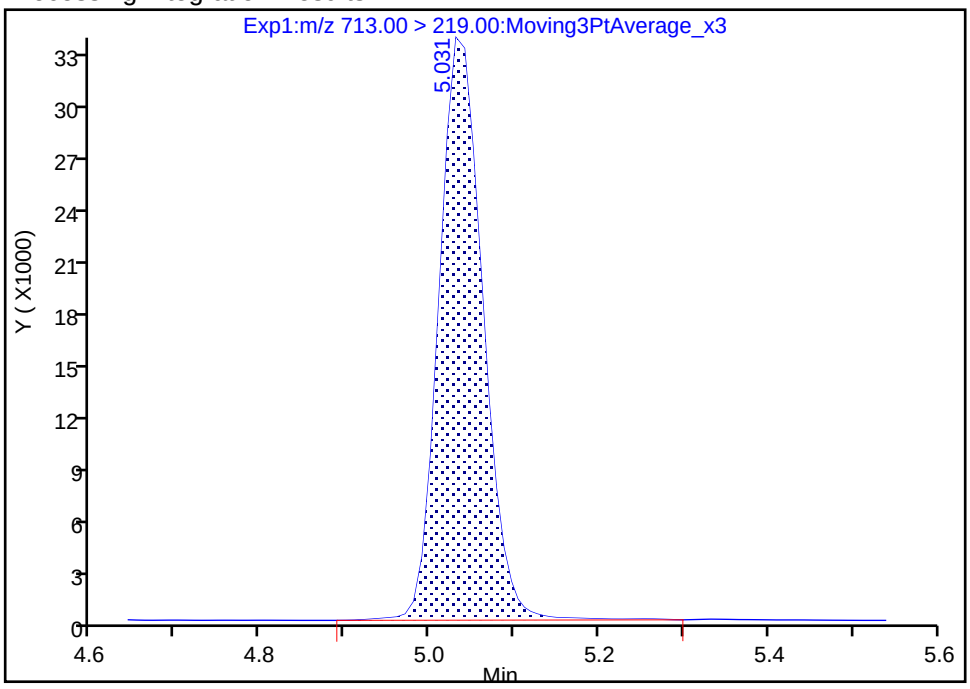
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d
Injection Date: 13-Jun-2022 18:06:14 Instrument ID: LC812
Lims ID: LCSD 200-180717/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

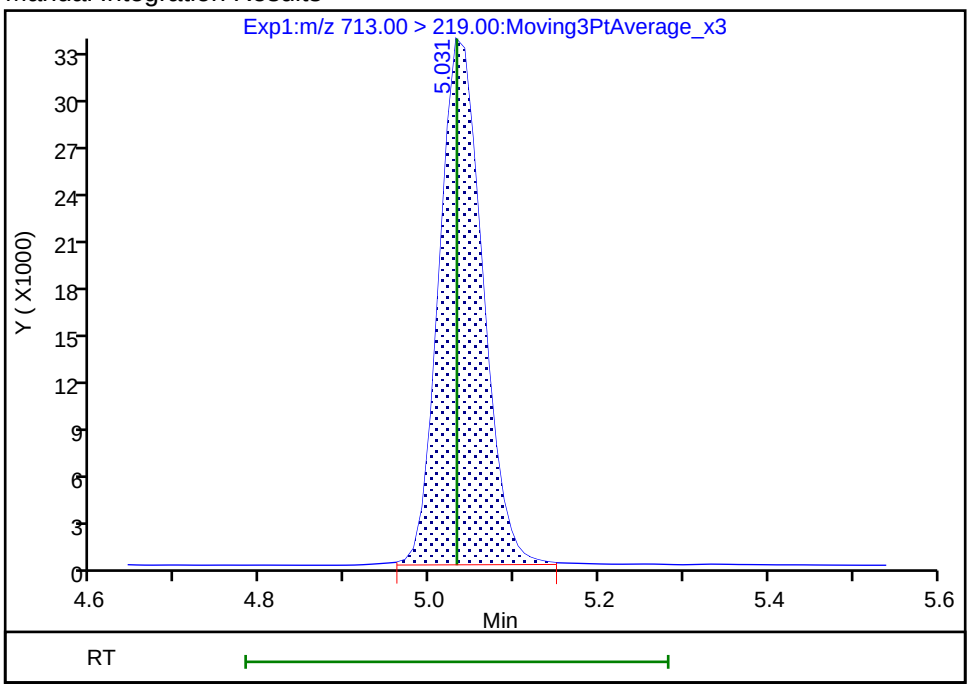
Processing Integration Results

RT: 5.03
Area: 119175
Amount: 0.923619
Amount Units: ng/ml



Manual Integration Results

RT: 5.03
Area: 118190
Amount: 0.934511
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:12:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

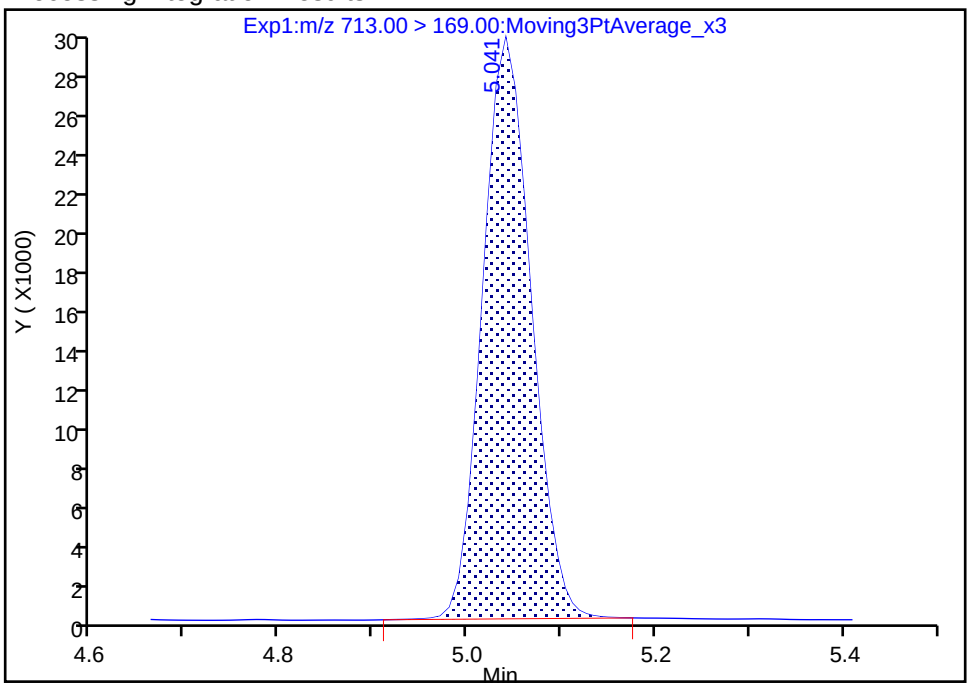
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d				
Injection Date:	13-Jun-2022 18:06:14	Instrument ID:	LC812		
Lims ID:	LCSD 200-180717/3-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

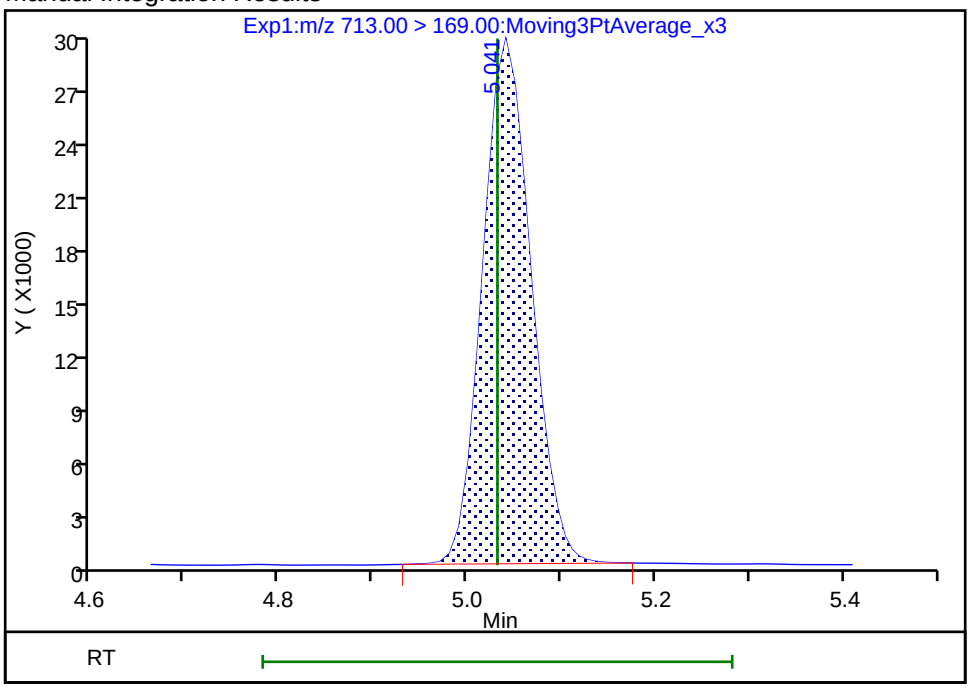
Processing Integration Results

RT: 5.04
Area: 106756
Amount: 0.923619
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 106664
Amount: 0.934511
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:12:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

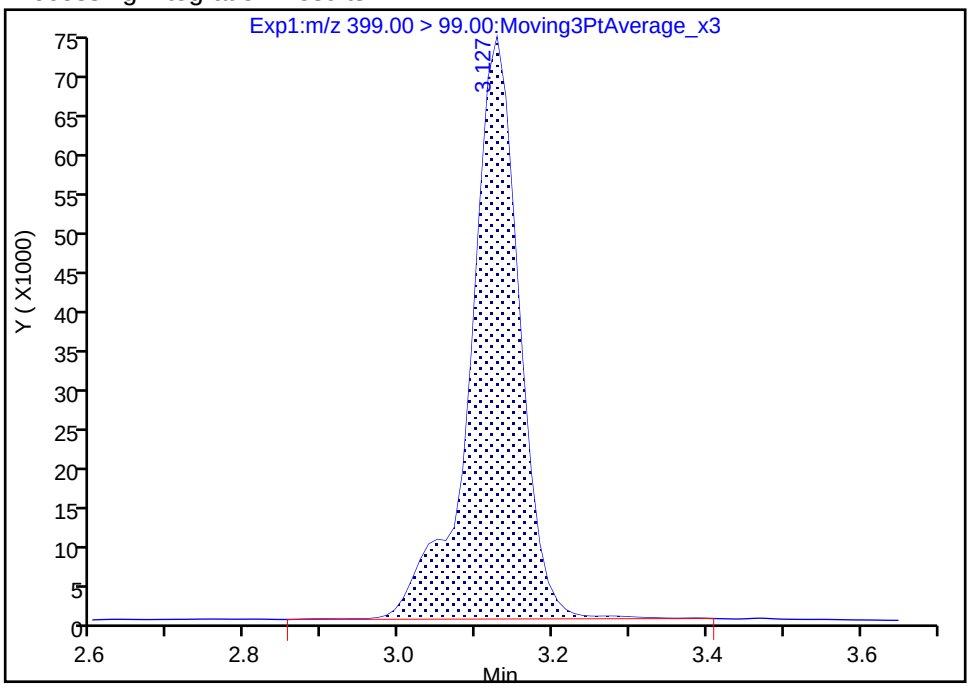
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d
Injection Date: 13-Jun-2022 18:06:14 Instrument ID: LC812
Lims ID: LCSD 200-180717/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

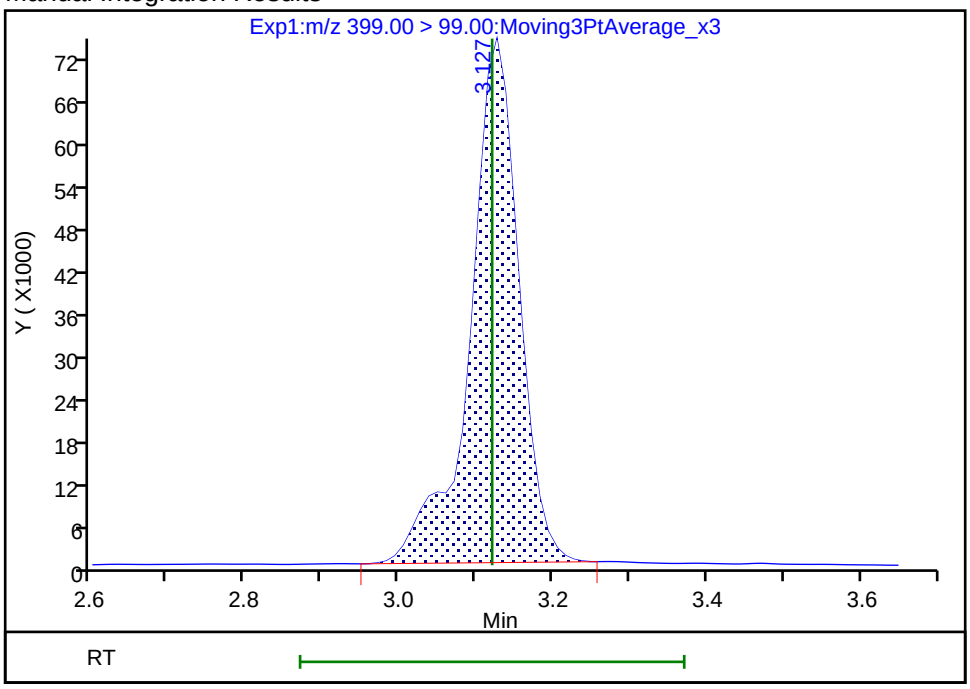
Processing Integration Results

RT: 3.13
Area: 330710
Amount: 0.928898
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 325787
Amount: 0.927184
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:08:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

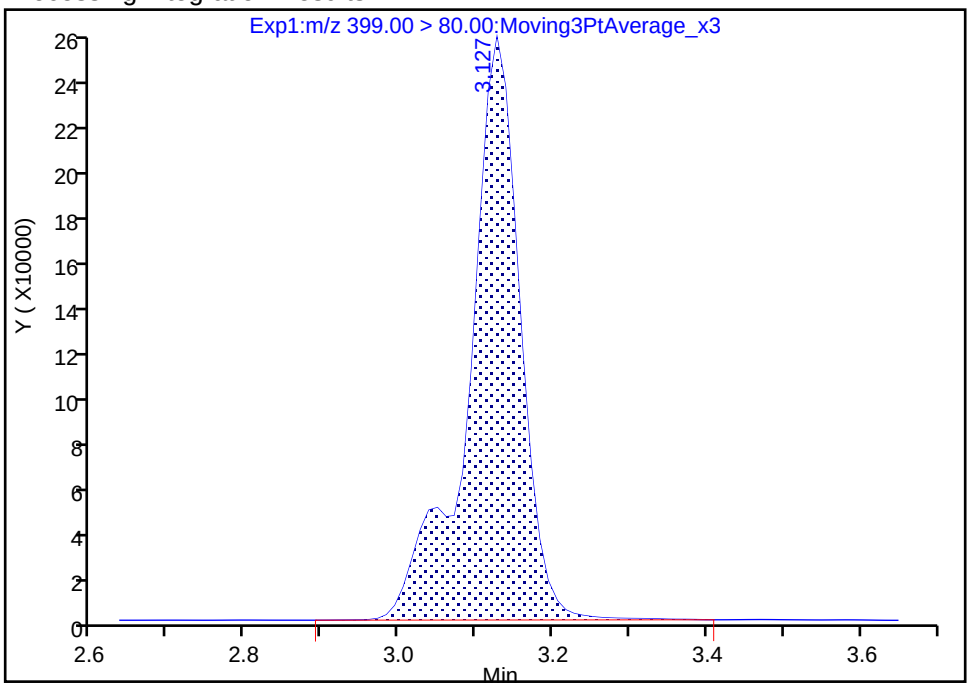
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d
Injection Date: 13-Jun-2022 18:06:14 Instrument ID: LC812
Lims ID: LCSD 200-180717/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

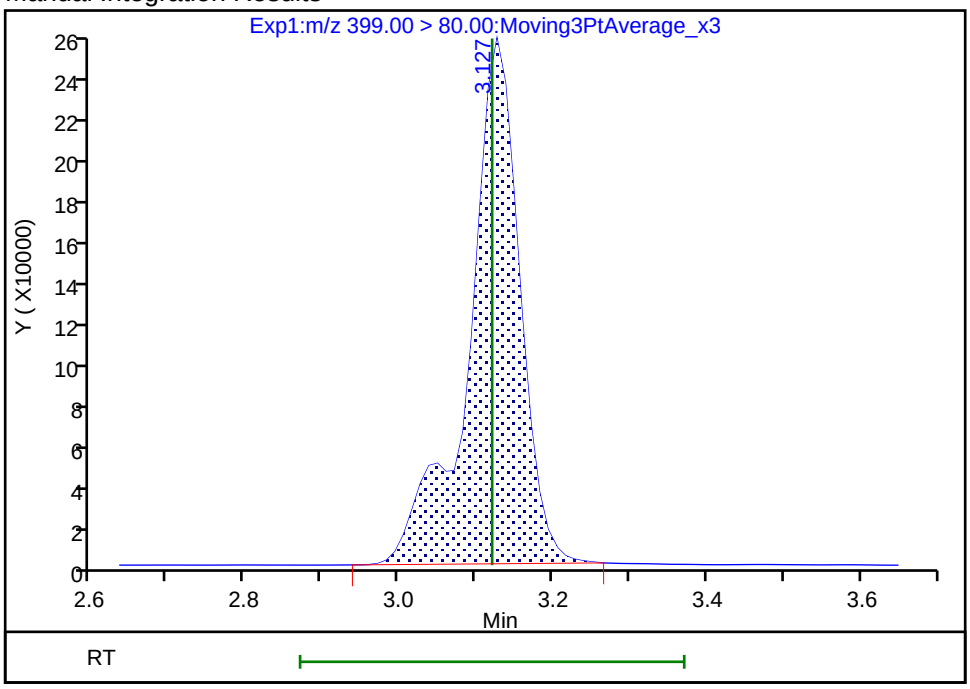
Processing Integration Results

RT: 3.13
Area: 1179250
Amount: 0.928898
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 1166273
Amount: 0.927184
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:42:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

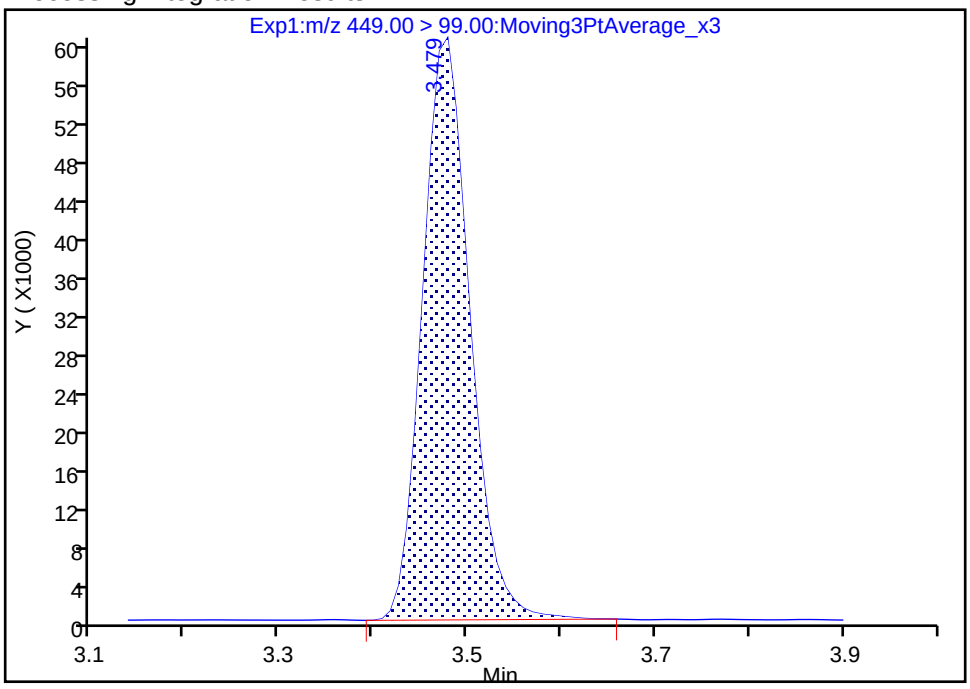
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d				
Injection Date:	13-Jun-2022 18:06:14	Instrument ID:	LC812		
Lims ID:	LCSD 200-180717/3-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

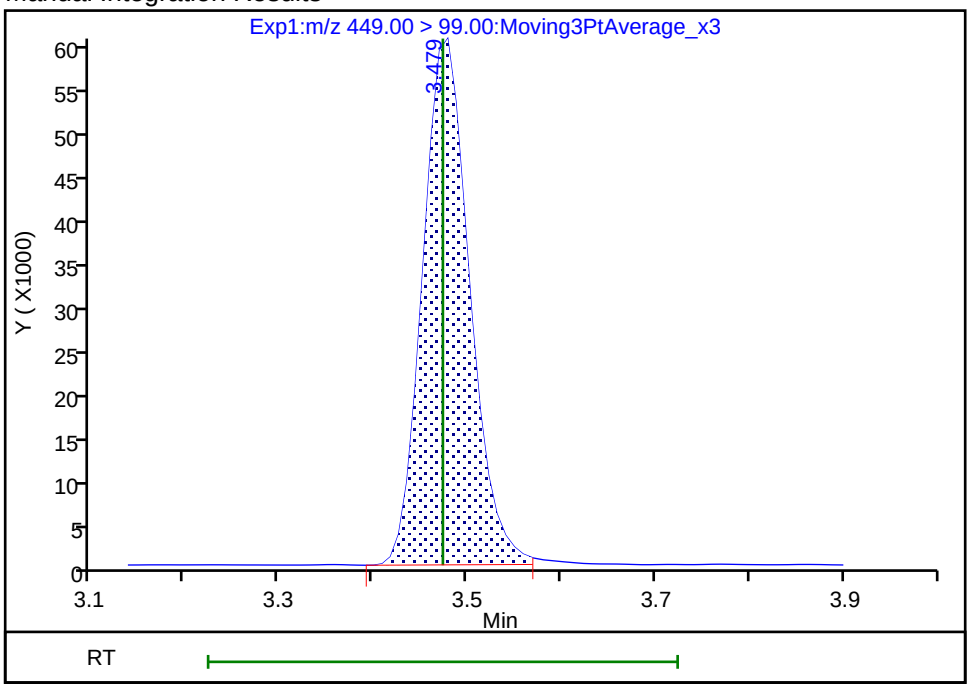
Processing Integration Results

RT: 3.48
Area: 212430
Amount: 0.989456
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 211186
Amount: 0.993392
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:42:34

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

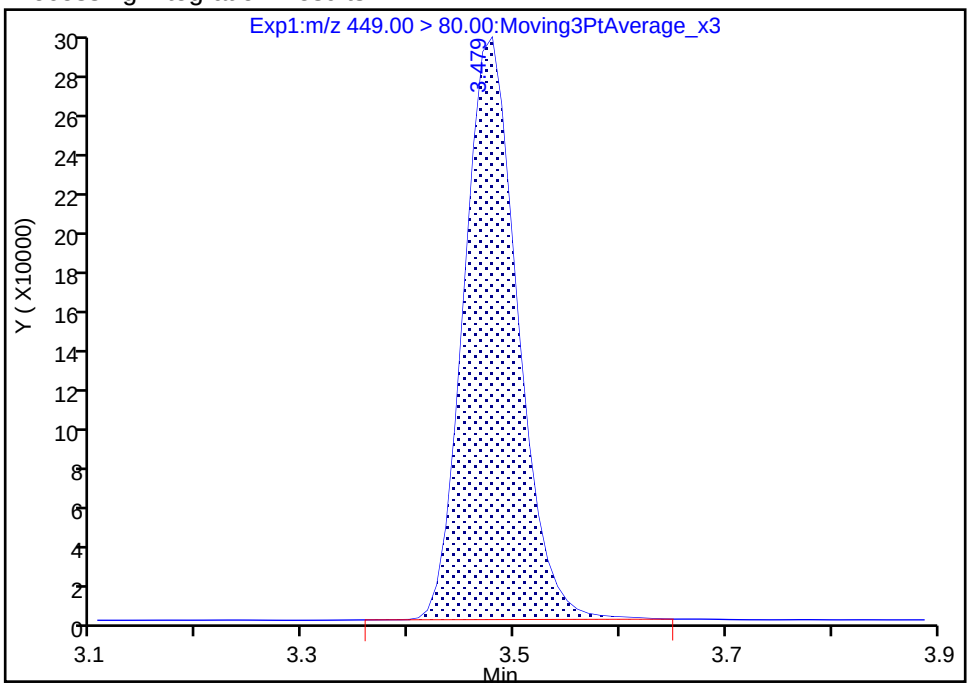
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d
Injection Date: 13-Jun-2022 18:06:14 Instrument ID: LC812
Lims ID: LCSD 200-180717/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

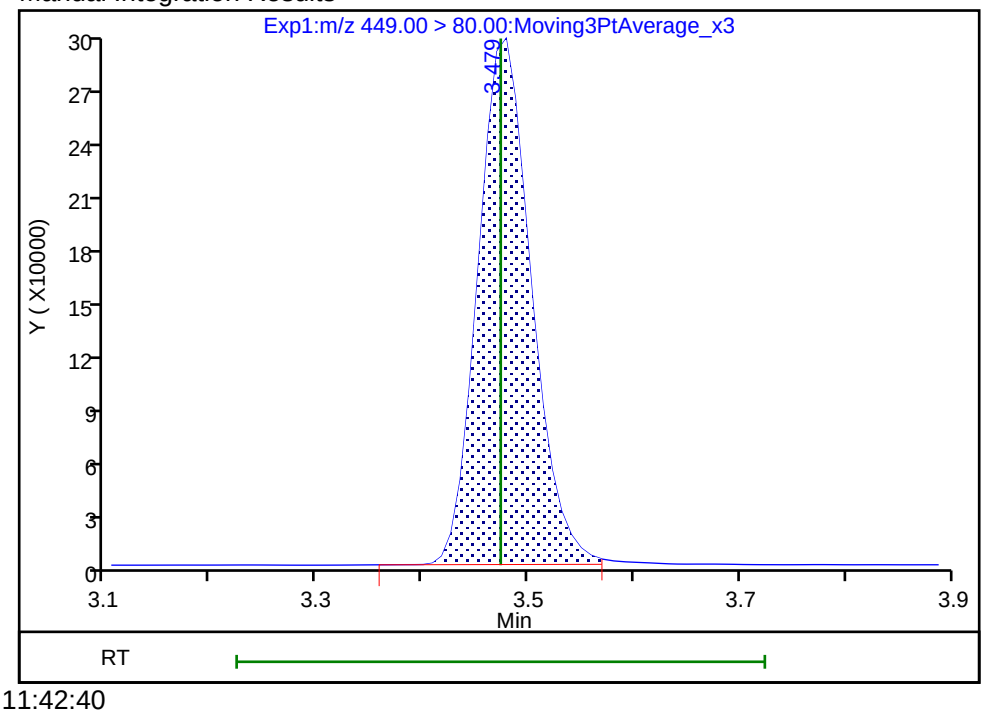
Processing Integration Results

RT: 3.48
Area: 1036841
Amount: 0.989456
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 1032139
Amount: 0.993392
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:42:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

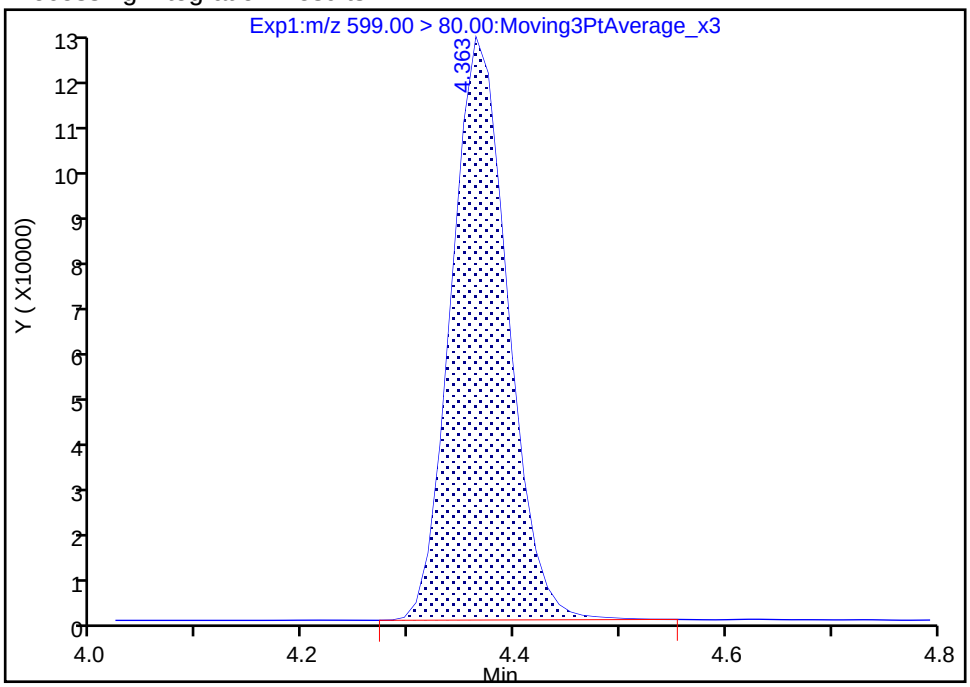
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d				
Injection Date:	13-Jun-2022 18:06:14	Instrument ID:	LC812		
Lims ID:	LCSD 200-180717/3-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

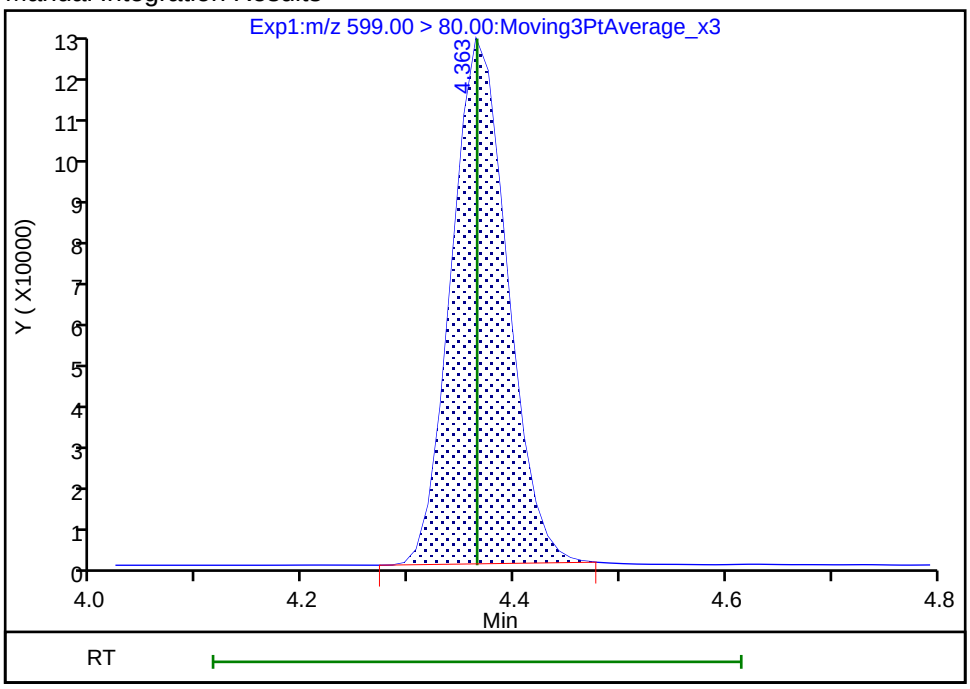
Processing Integration Results

RT: 4.36
Area: 467760
Amount: 0.877365
Amount Units: ng/ml



Manual Integration Results

RT: 4.36
Area: 463380
Amount: 0.869150
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:44:02

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

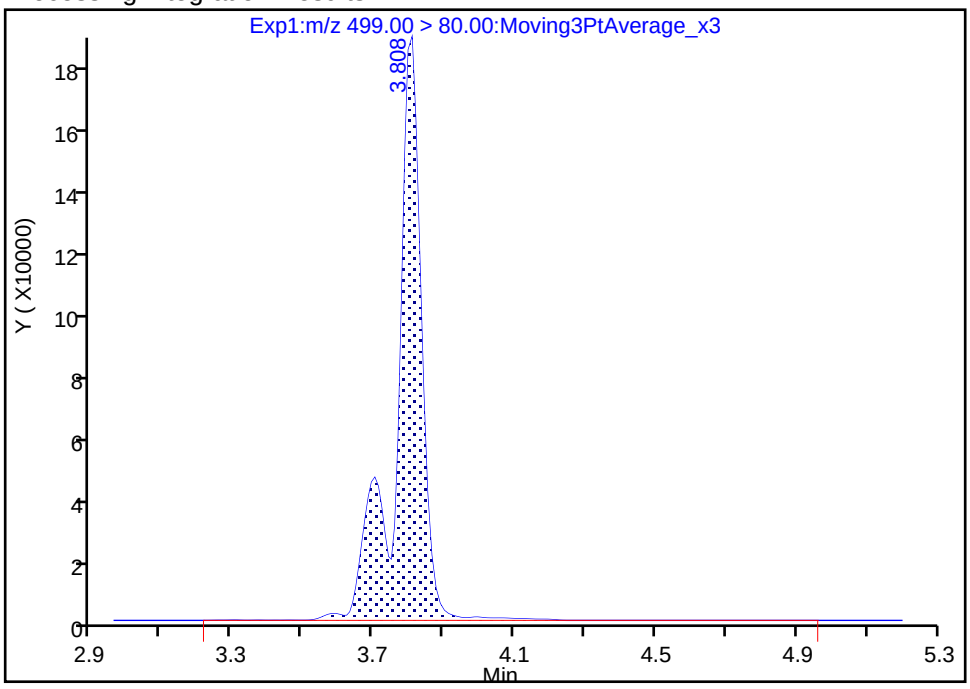
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d				
Injection Date:	13-Jun-2022 18:06:14	Instrument ID:	LC812		
Lims ID:	LCSD 200-180717/3-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

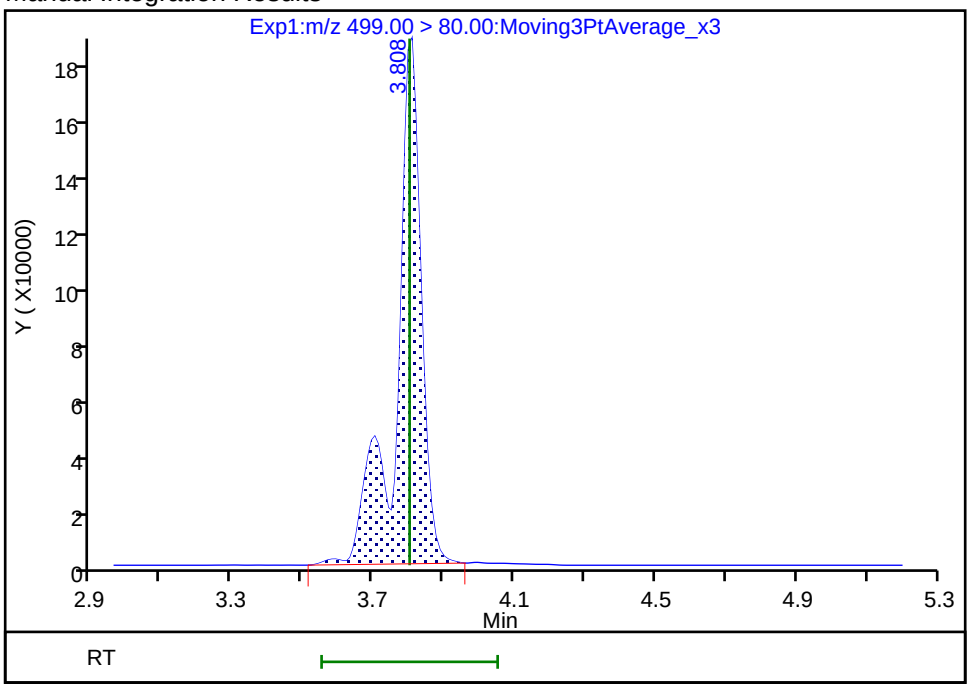
Processing Integration Results

RT: 3.81
Area: 902257
Amount: 0.969143
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 882314
Amount: 0.955825
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:09:22

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

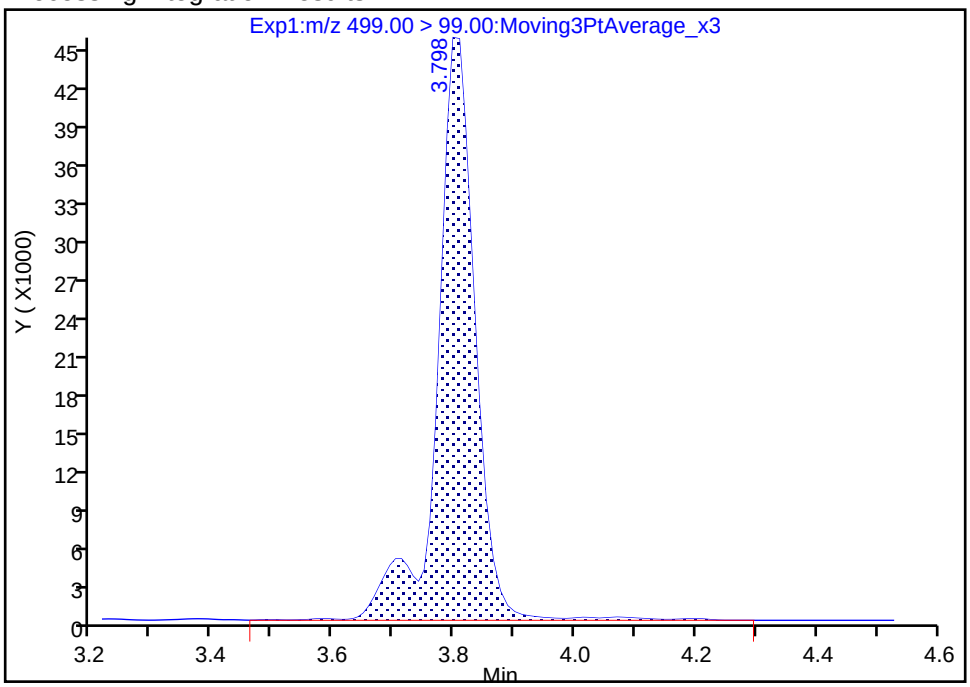
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d
Injection Date: 13-Jun-2022 18:06:14 Instrument ID: LC812
Lims ID: LCSD 200-180717/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

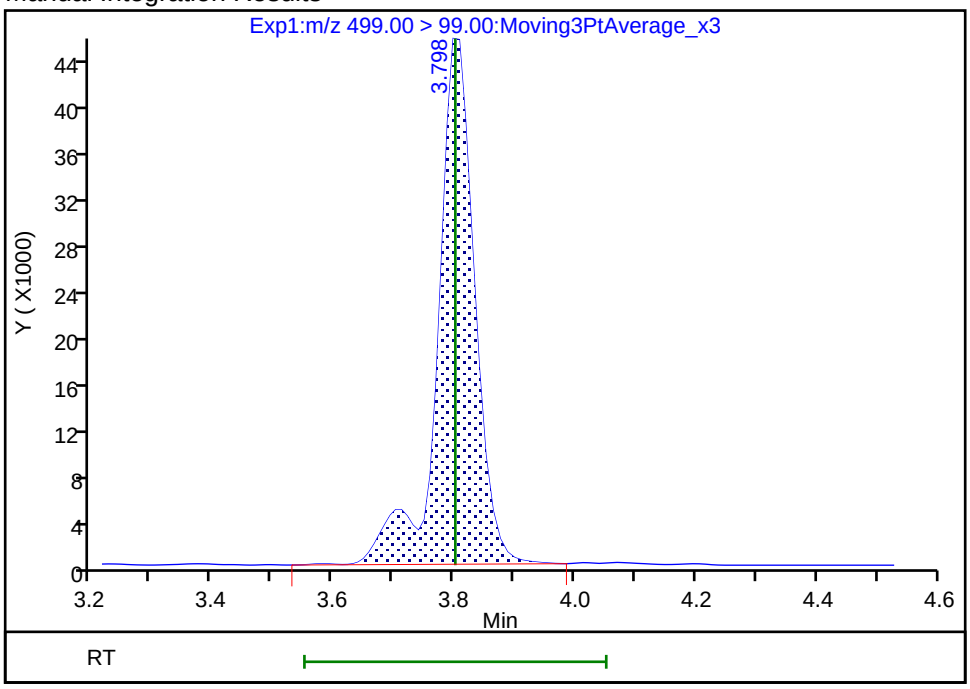
Processing Integration Results

RT: 3.80
Area: 198202
Amount: 0.969143
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 194079
Amount: 0.955825
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:09:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

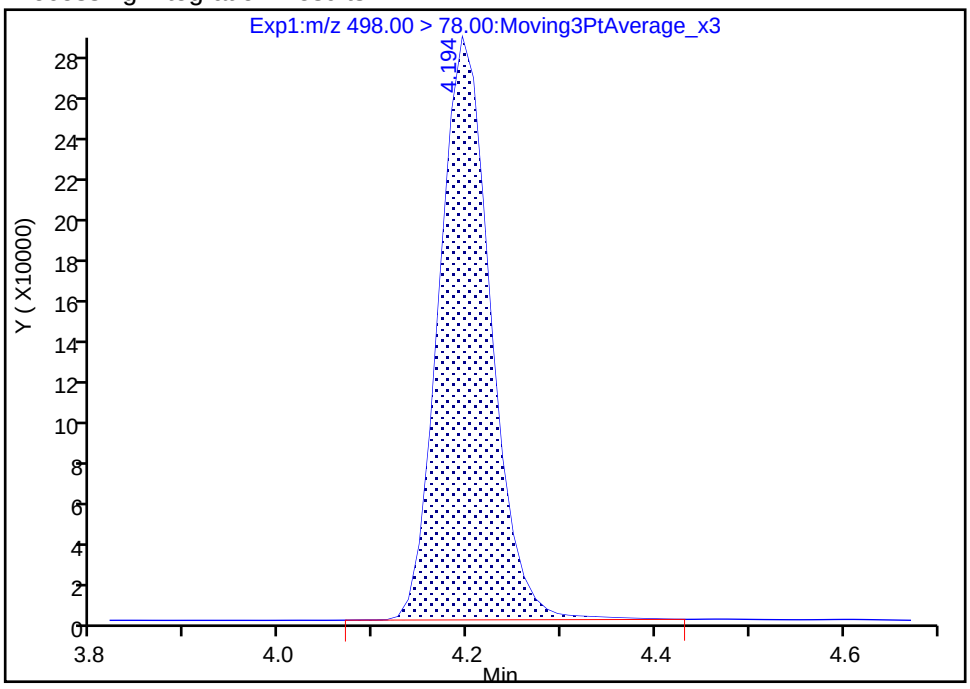
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d
Injection Date: 13-Jun-2022 18:06:14 Instrument ID: LC812
Lims ID: LCSD 200-180717/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

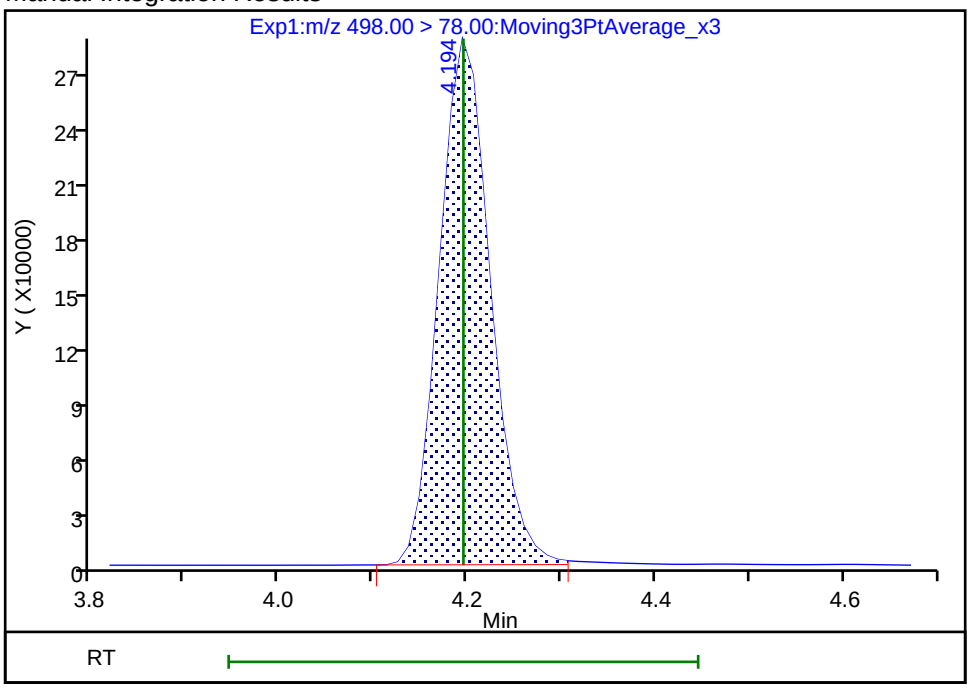
Processing Integration Results

RT: 4.19
Area: 1098277
Amount: 1.005268
Amount Units: ng/ml



Manual Integration Results

RT: 4.19
Area: 1092104
Amount: 1.005214
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:10:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

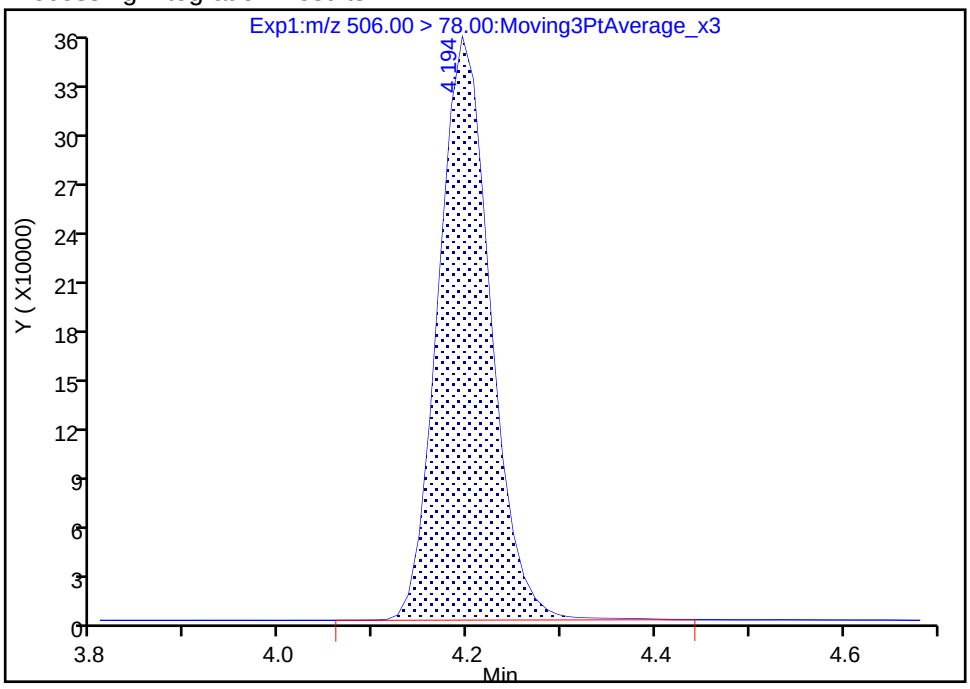
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d				
Injection Date:	13-Jun-2022 18:06:14	Instrument ID:	LC812		
Lims ID:	LCSD 200-180717/3-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

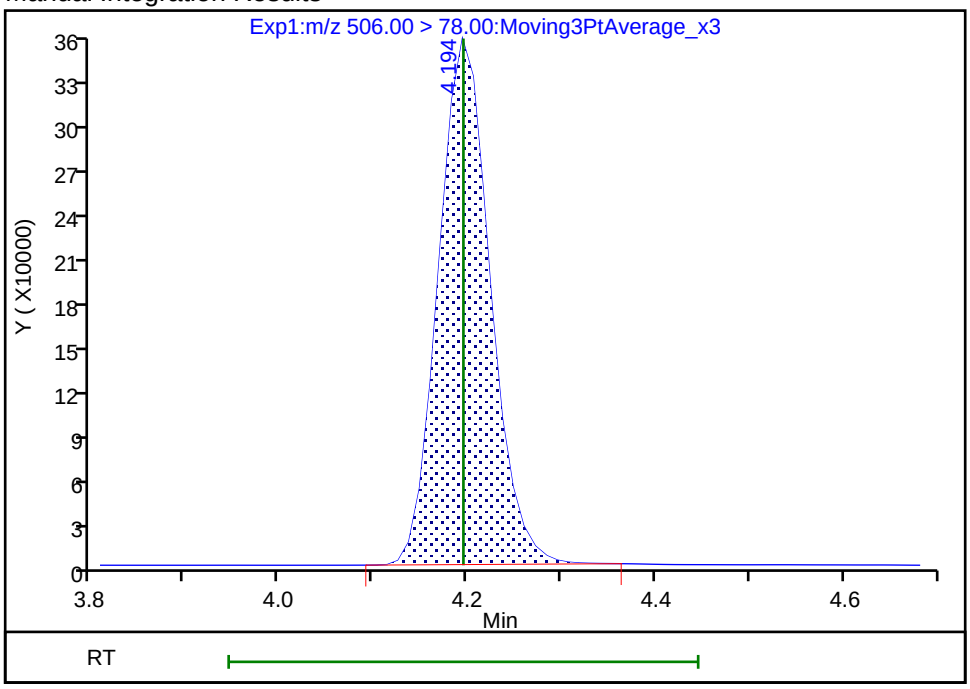
Processing Integration Results

RT: 4.19
Area: 1345845
Amount: 0.887319
Amount Units: ng/ml



Manual Integration Results

RT: 4.19
Area: 1338352
Amount: 0.882379
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:43:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

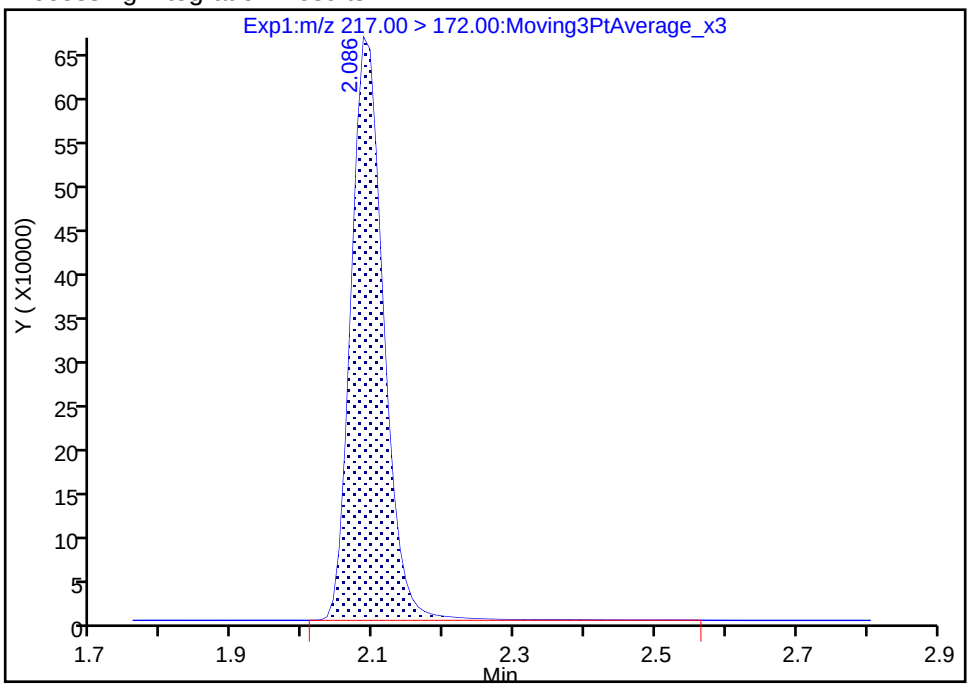
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d
Injection Date: 13-Jun-2022 18:06:14 Instrument ID: LC812
Lims ID: LCSD 200-180717/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

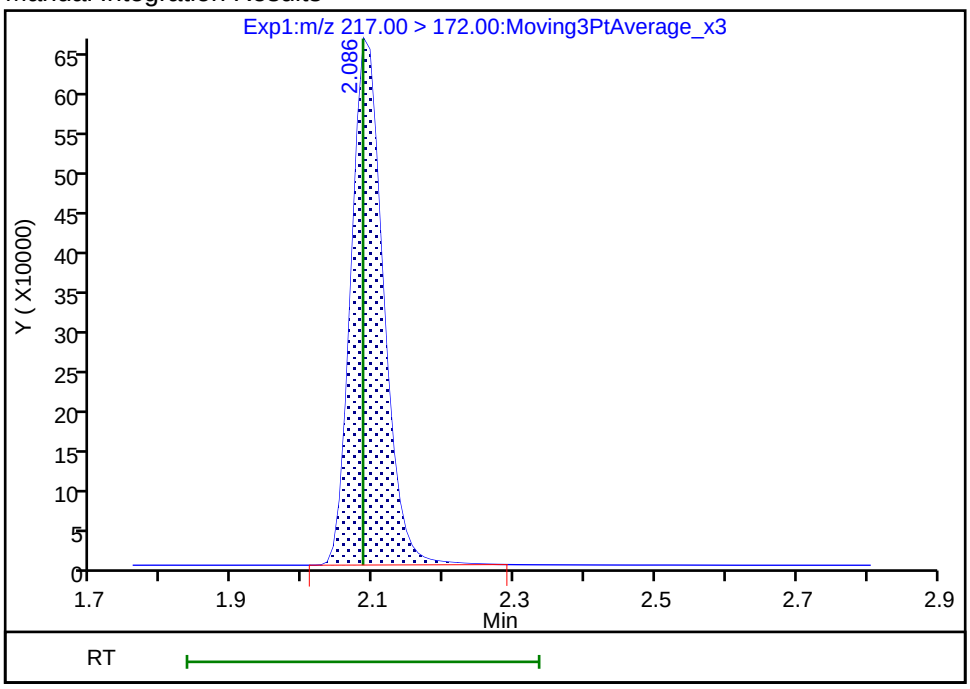
Processing Integration Results

RT: 2.09
Area: 2127647
Amount: 1.423982
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 2116774
Amount: 1.424730
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:41:06
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

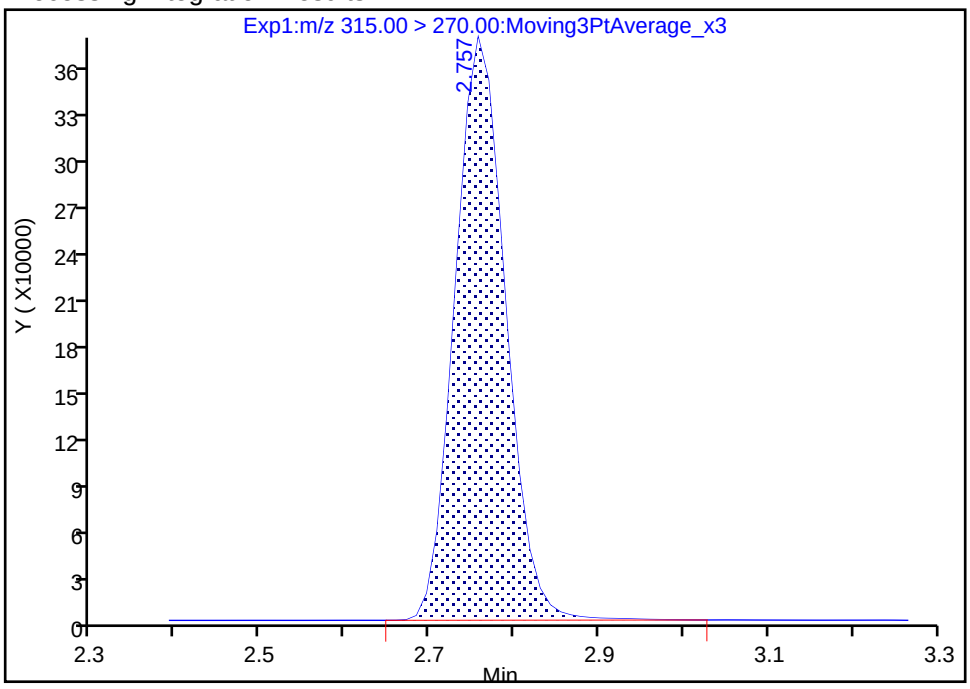
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d				
Injection Date:	13-Jun-2022 18:06:14	Instrument ID:	LC812		
Lims ID:	LCSD 200-180717/3-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

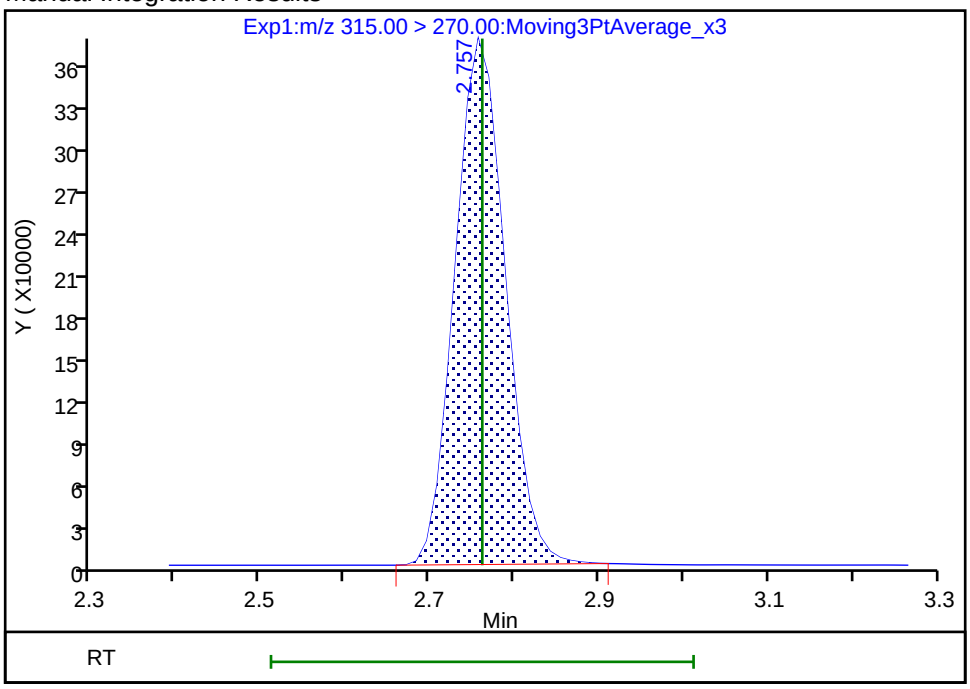
Processing Integration Results

RT: 2.76
Area: 1537928
Amount: 1.316805
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 1527556
Amount: 1.315333
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:41:37

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

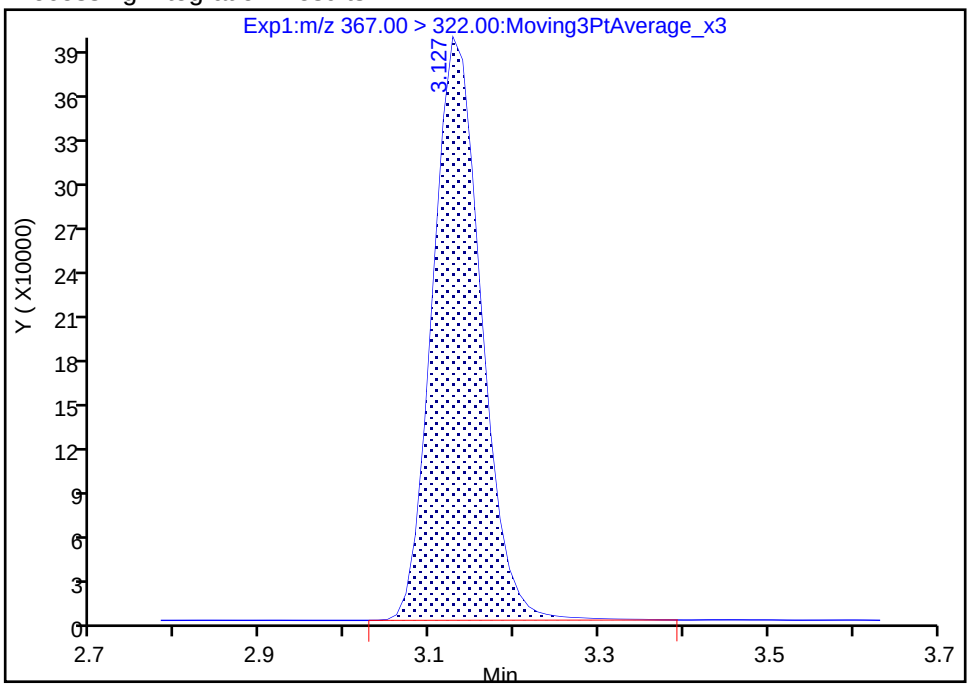
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d
Injection Date: 13-Jun-2022 18:06:14 Instrument ID: LC812
Lims ID: LCSD 200-180717/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

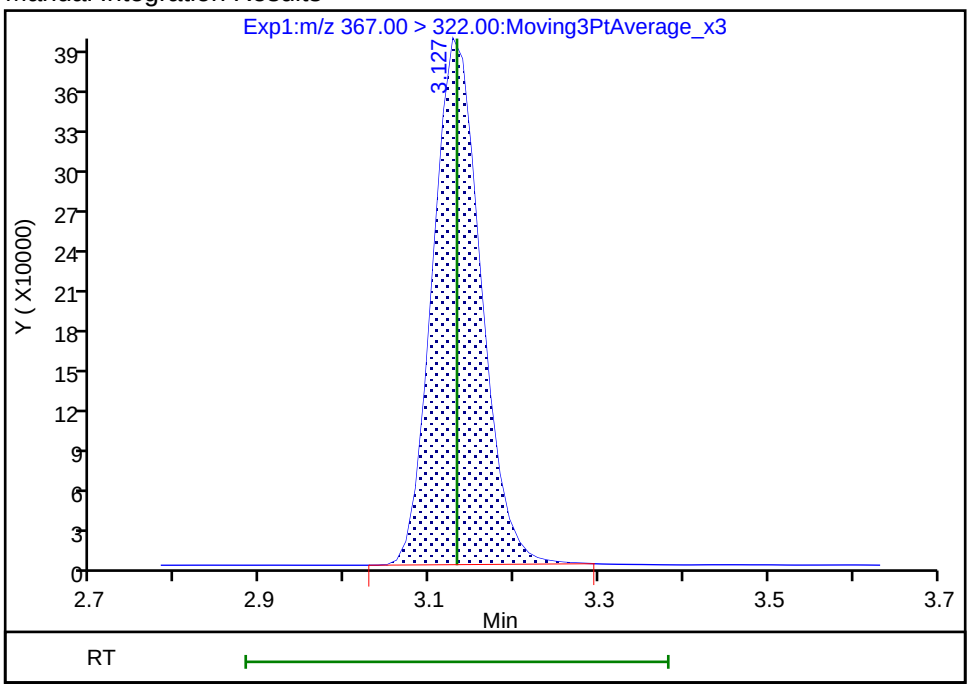
Processing Integration Results

RT: 3.13
Area: 1566430
Amount: 1.243075
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 1556643
Amount: 1.242306
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:42:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

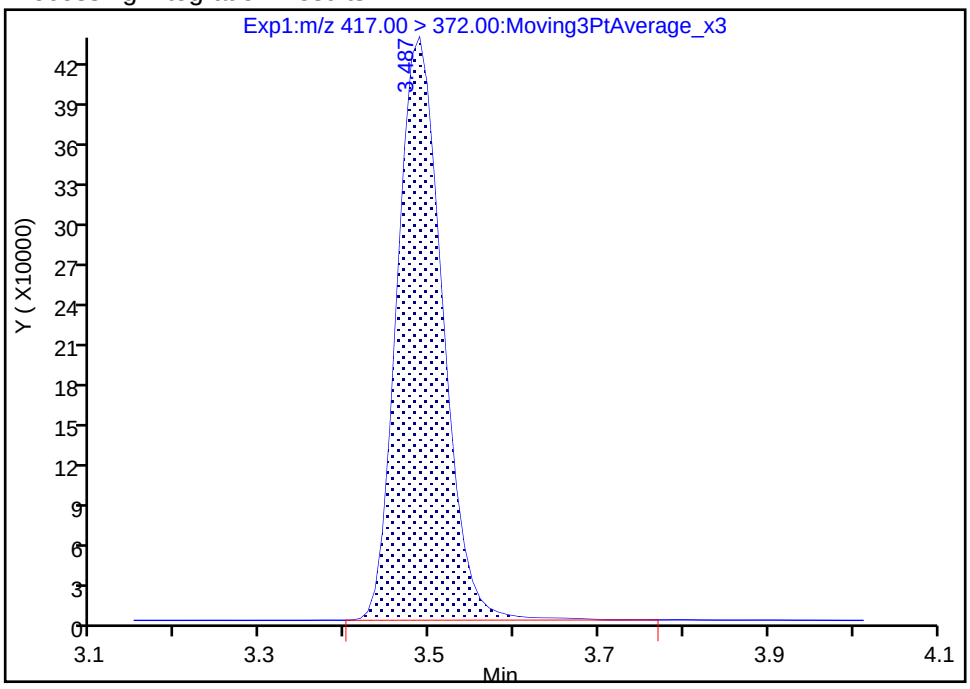
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d				
Injection Date:	13-Jun-2022 18:06:14	Instrument ID:	LC812		
Lims ID:	LCSD 200-180717/3-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

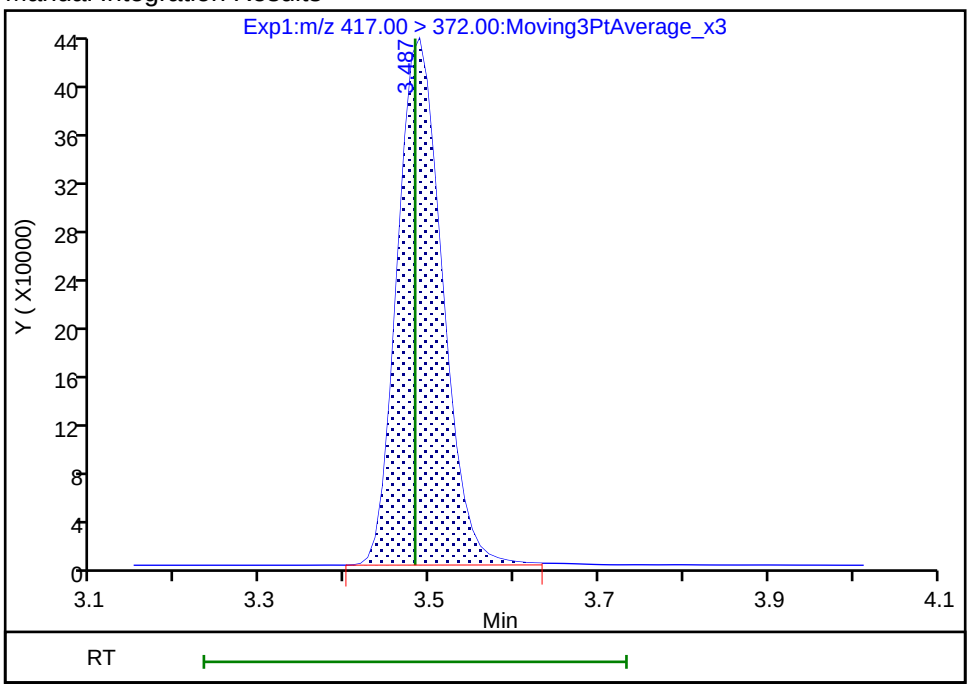
Processing Integration Results

RT: 3.49
Area: 1610349
Amount: 1.215288
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 1605796
Amount: 1.218717
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:05:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

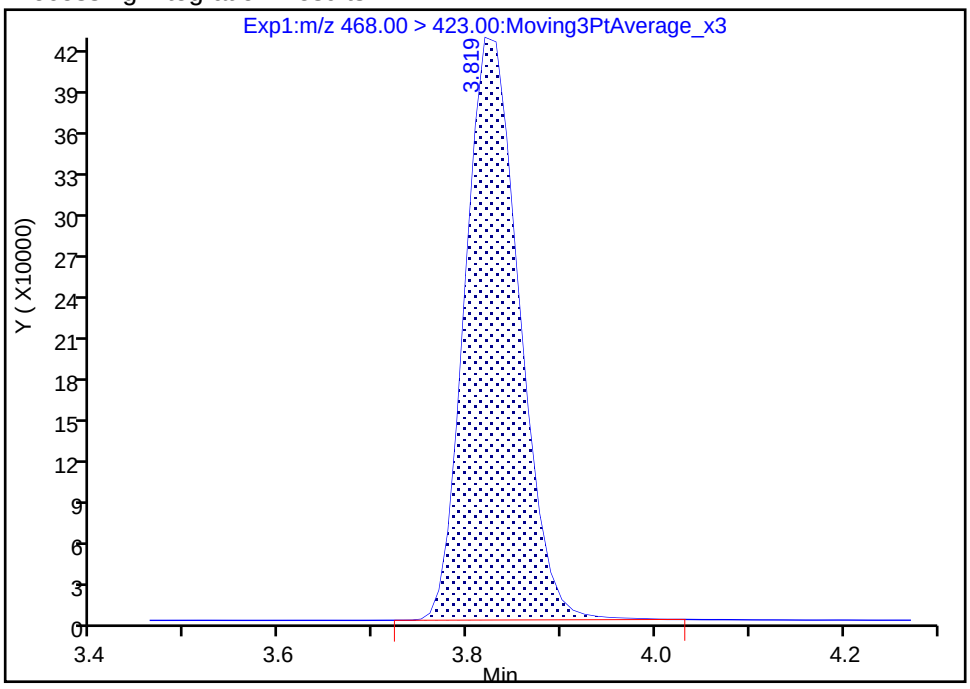
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d				
Injection Date:	13-Jun-2022 18:06:14	Instrument ID:	LC812		
Lims ID:	LCSD 200-180717/3-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

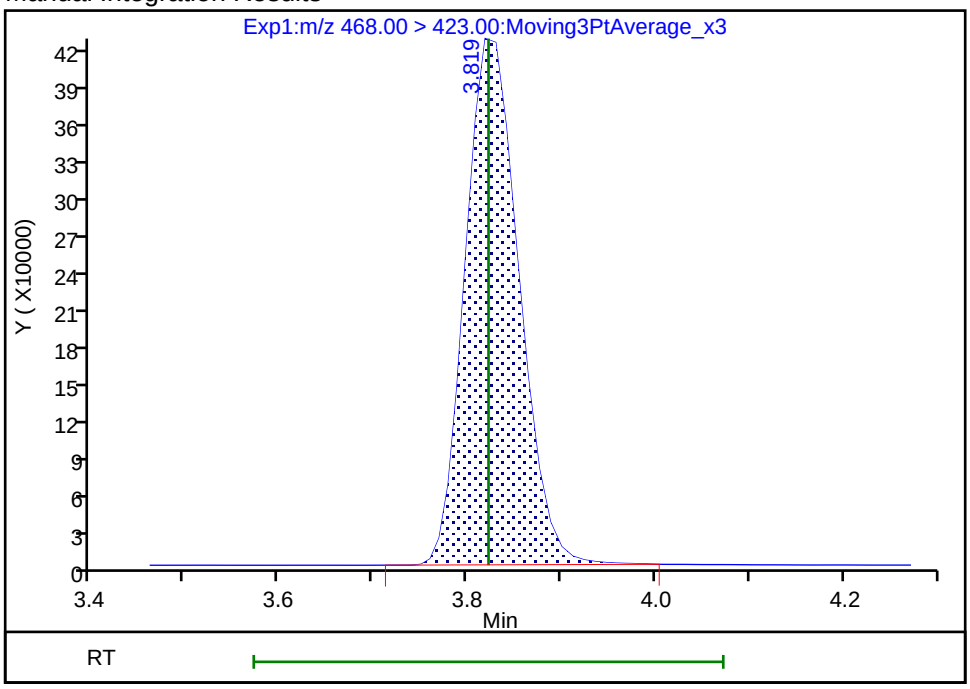
Processing Integration Results

RT: 3.82
Area: 1700078
Amount: 1.187422
Amount Units: ng/ml



Manual Integration Results

RT: 3.82
Area: 1698467
Amount: 1.186297
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:43:22

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

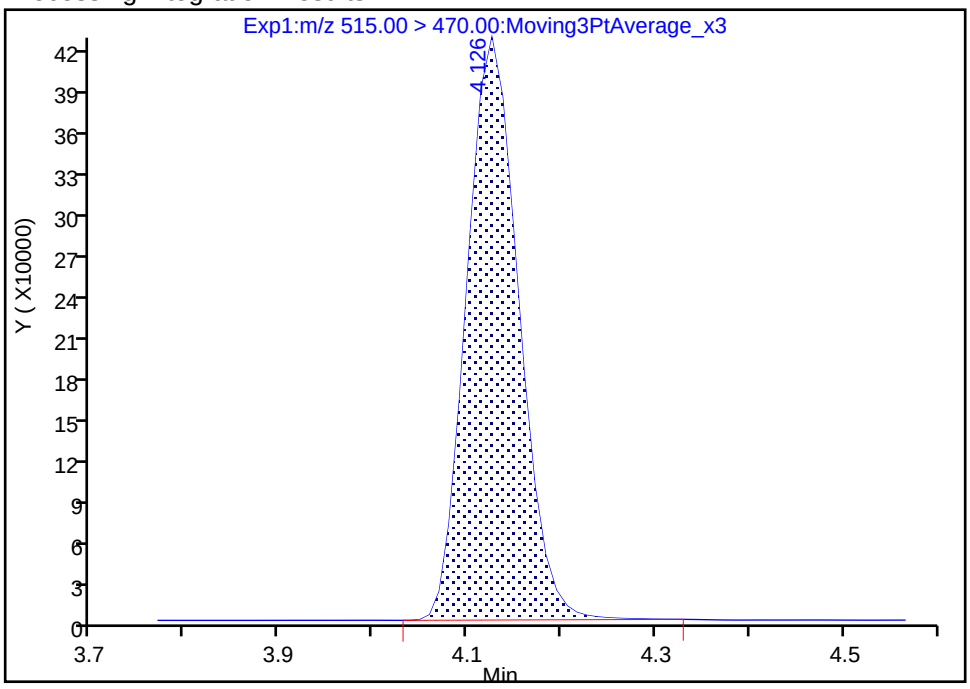
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d				
Injection Date:	13-Jun-2022 18:06:14	Instrument ID:	LC812		
Lims ID:	LCSD 200-180717/3-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

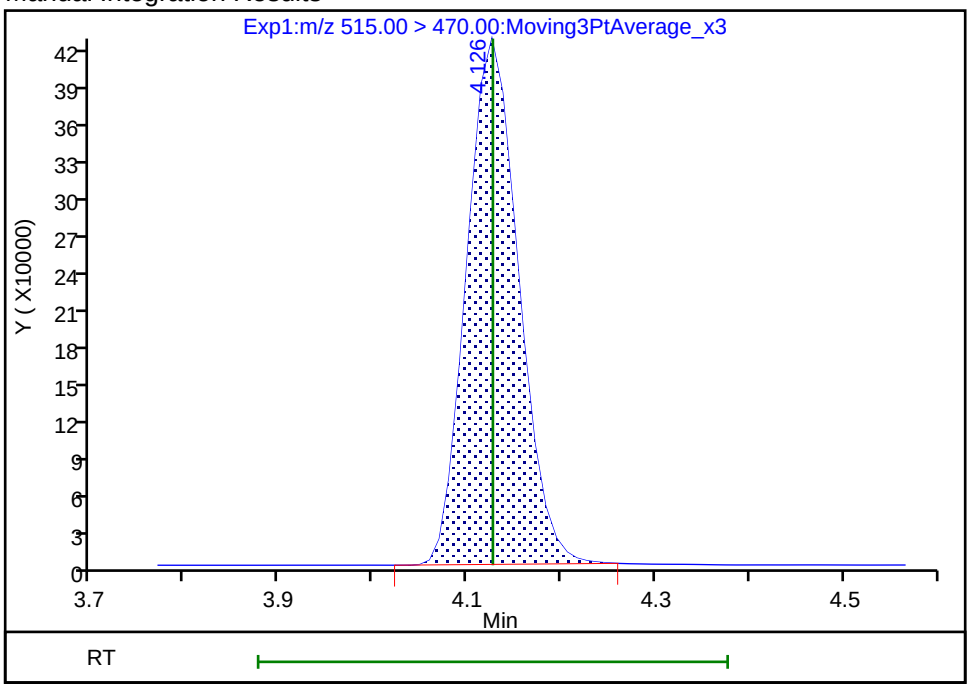
Processing Integration Results

RT: 4.13
Area: 1619199
Amount: 1.174497
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 1610944
Amount: 1.168510
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:43:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

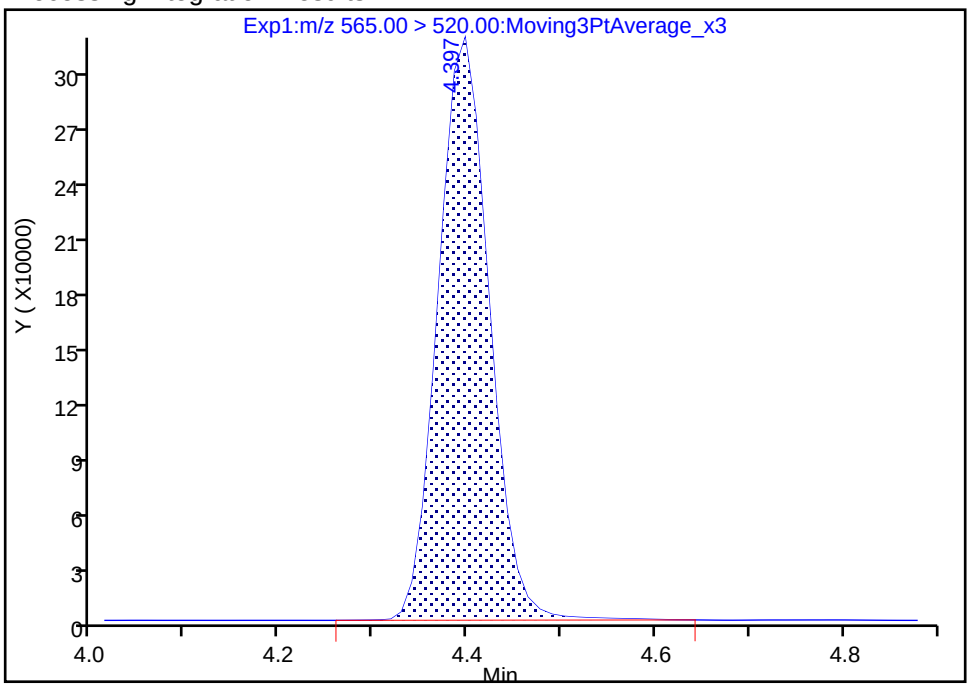
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d				
Injection Date:	13-Jun-2022 18:06:14	Instrument ID:	LC812		
Lims ID:	LCSD 200-180717/3-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

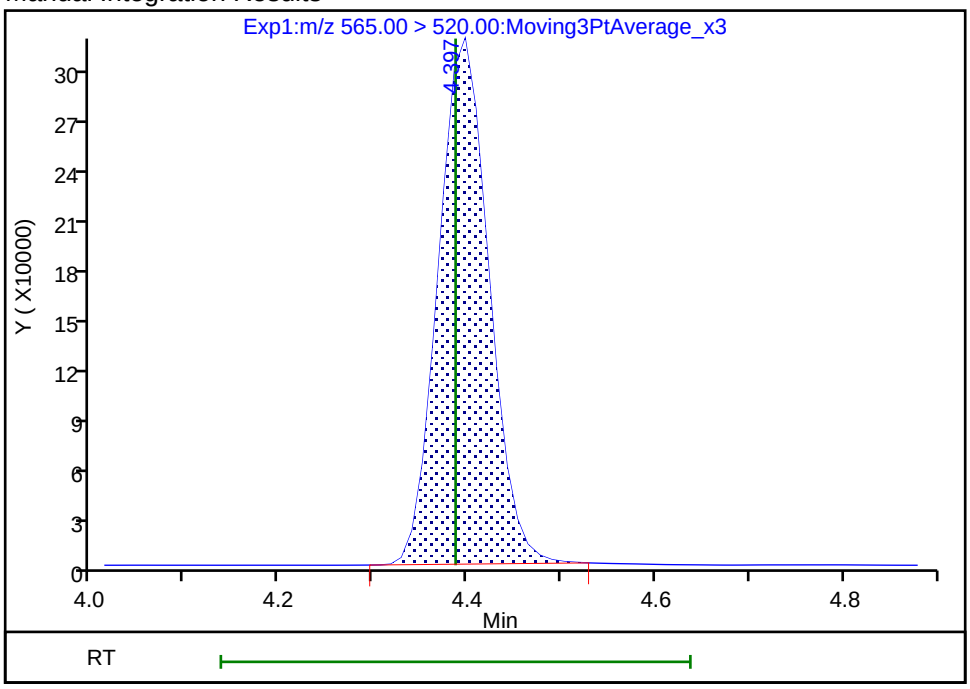
Processing Integration Results

RT: 4.40
Area: 1200693
Amount: 1.084743
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 1187893
Amount: 1.073179
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:44:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

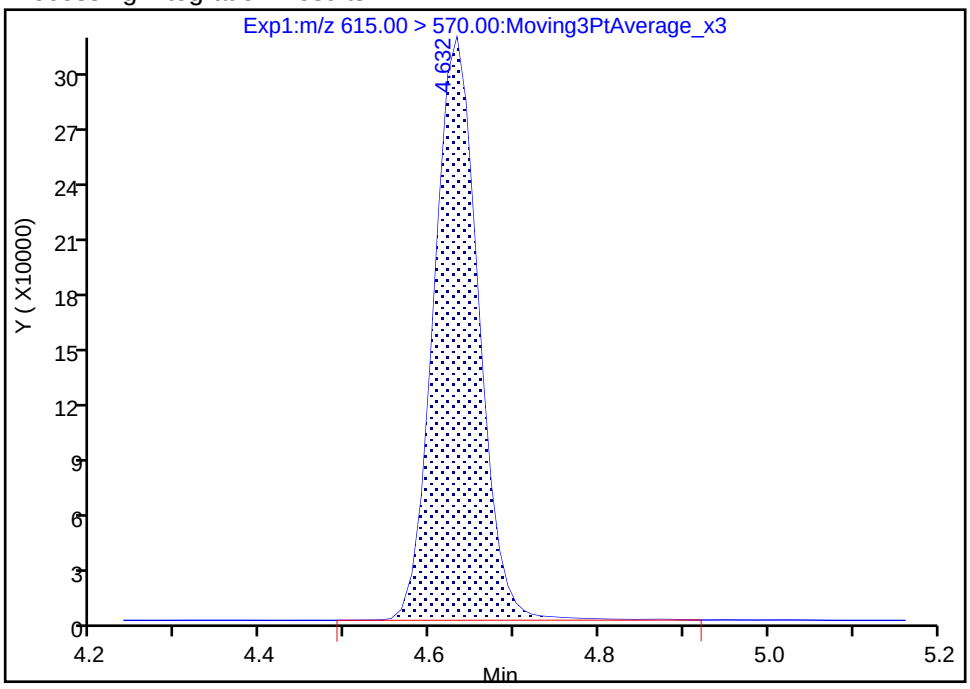
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d
Injection Date: 13-Jun-2022 18:06:14 Instrument ID: LC812
Lims ID: LCSD 200-180717/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 36 13C2 PFDoA, CAS: STL00998

Signal: 1

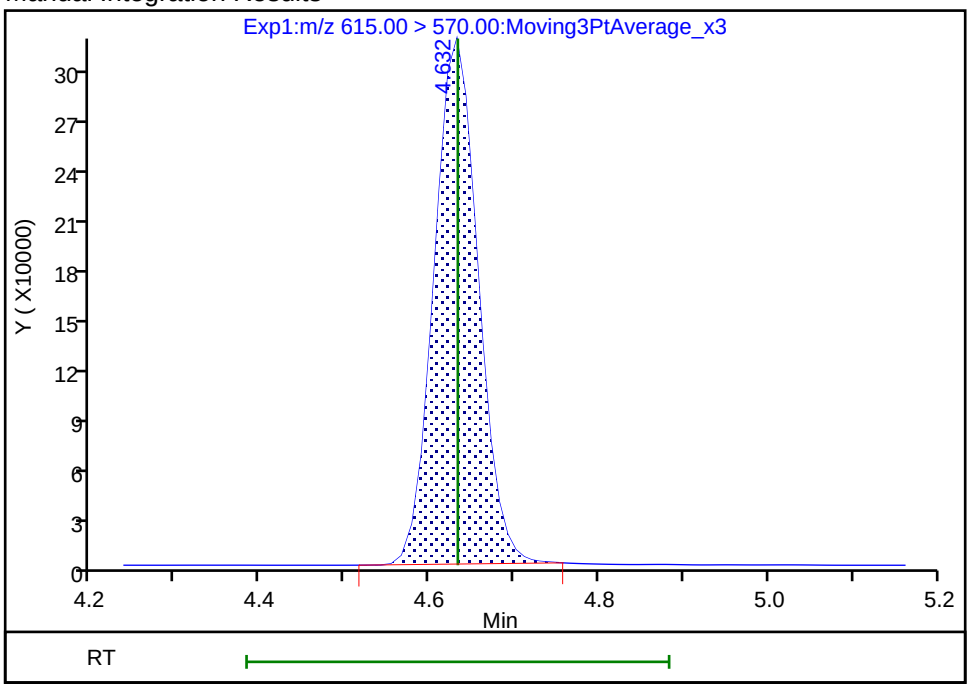
Processing Integration Results

RT: 4.63
Area: 1151099
Amount: 0.973763
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 1137115
Amount: 0.961934
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:44:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

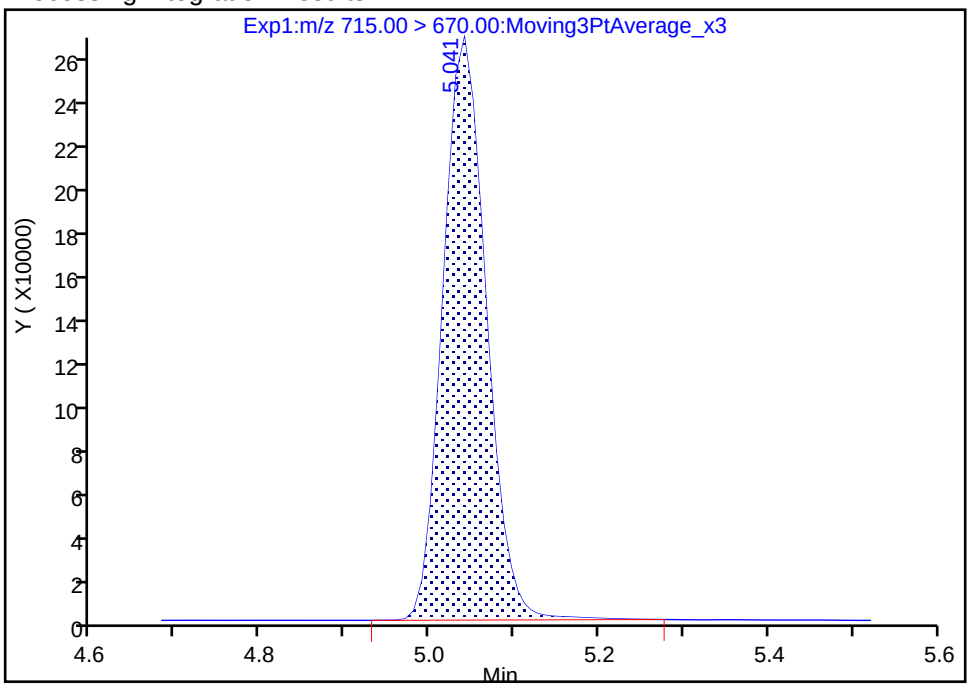
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d
Injection Date: 13-Jun-2022 18:06:14 Instrument ID: LC812
Lims ID: LCSD 200-180717/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

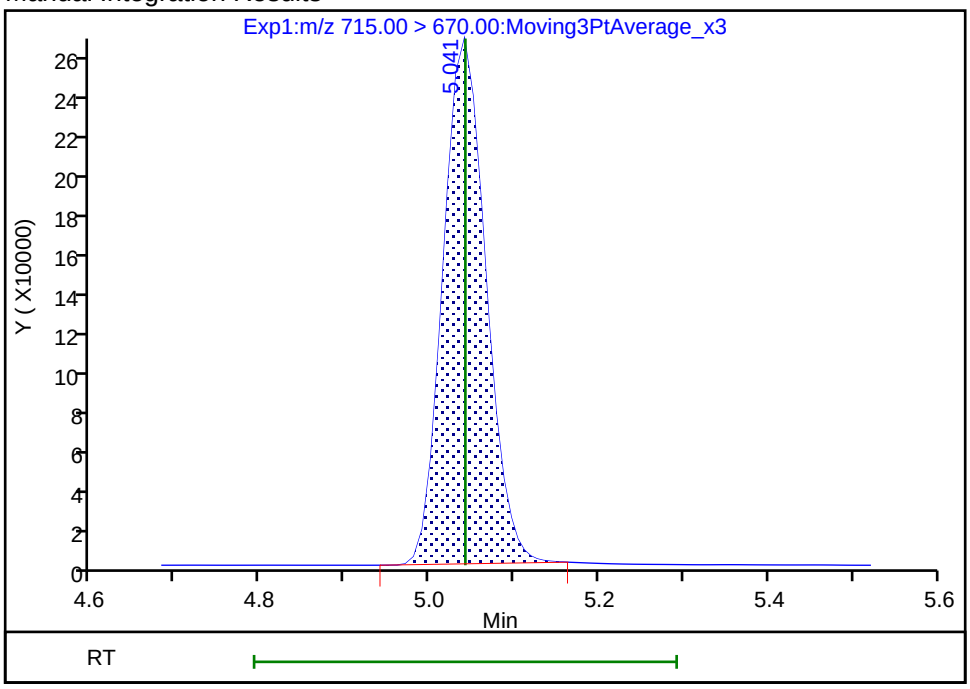
Processing Integration Results

RT: 5.04
Area: 935051
Amount: 0.967824
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 923356
Amount: 0.955719
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:44:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

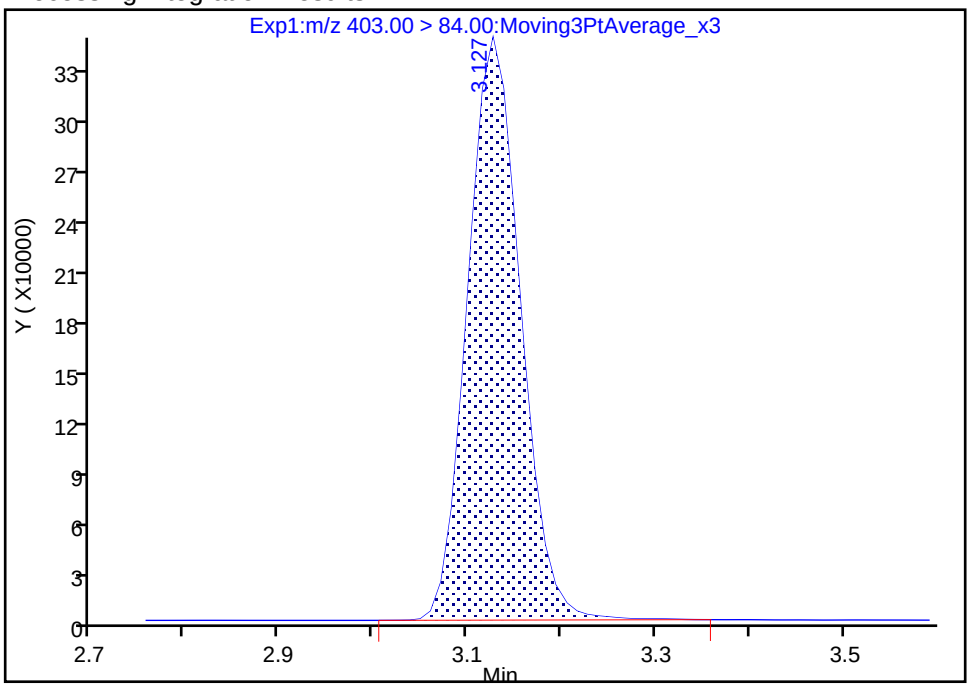
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d
Injection Date: 13-Jun-2022 18:06:14 Instrument ID: LC812
Lims ID: LCSD 200-180717/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

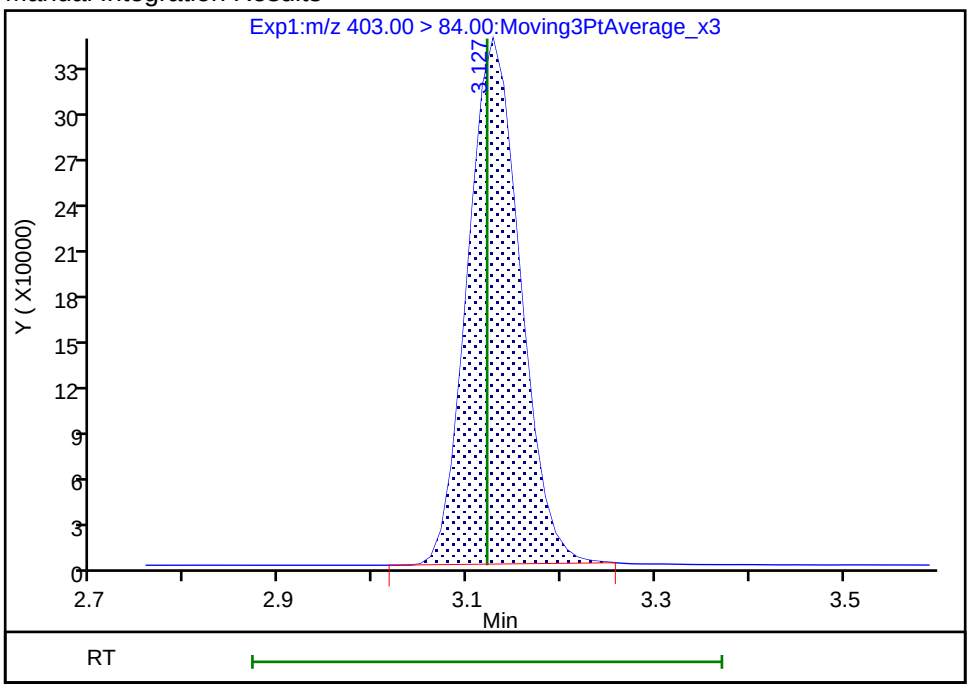
Processing Integration Results

RT: 3.13
Area: 1358207
Amount: 1.048536
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 1345744
Amount: 1.044800
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:41:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

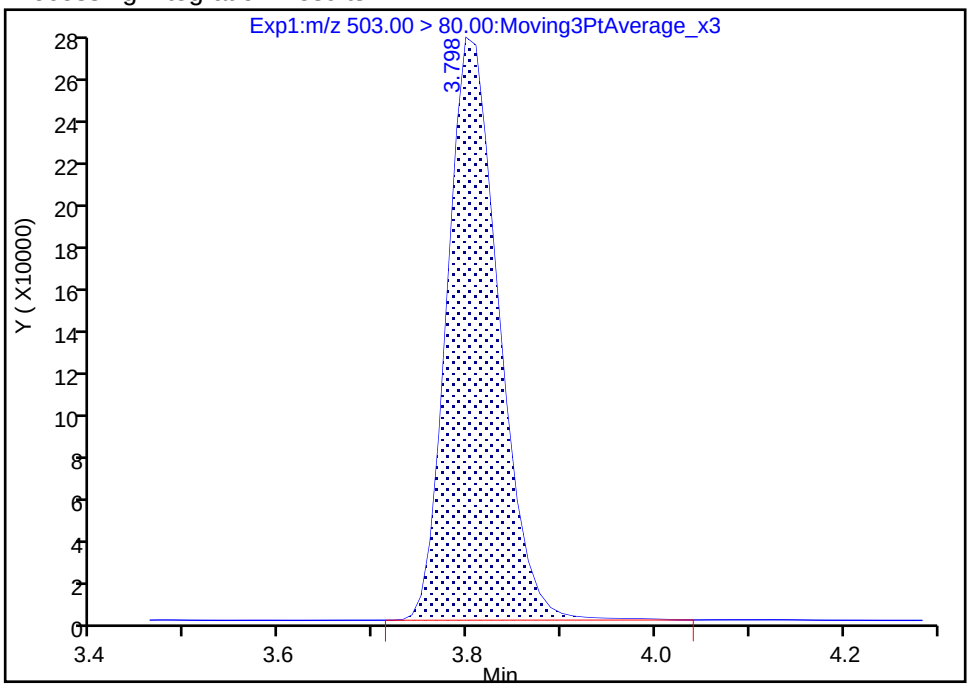
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d				
Injection Date:	13-Jun-2022 18:06:14	Instrument ID:	LC812		
Lims ID:	LCSD 200-180717/3-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

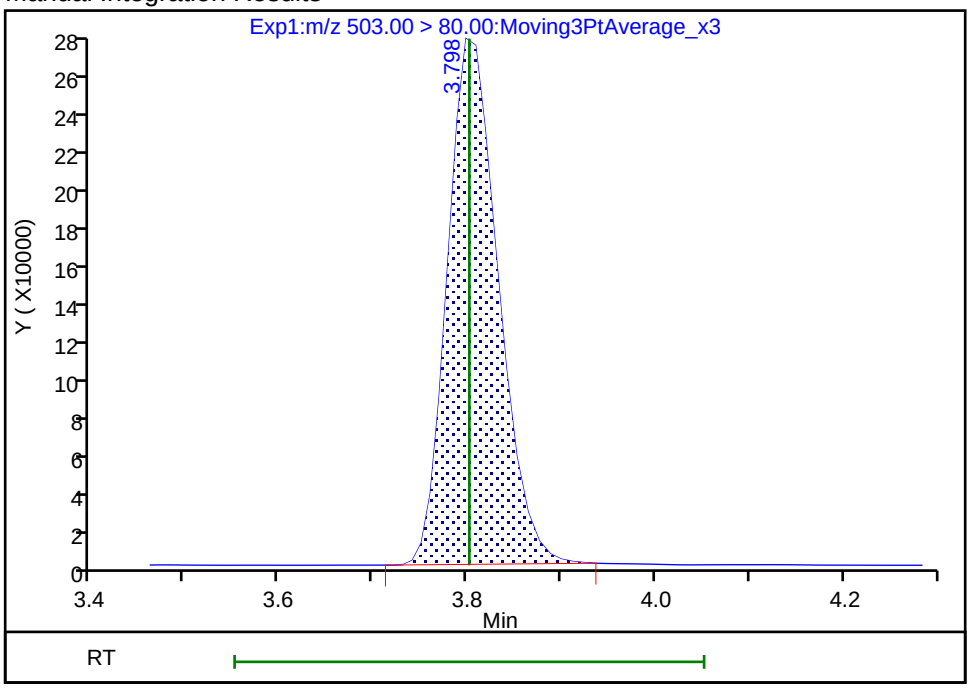
Processing Integration Results

RT: 3.80
Area: 1041805
Amount: 1.029578
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 1032972
Amount: 1.020849
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:43:05

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

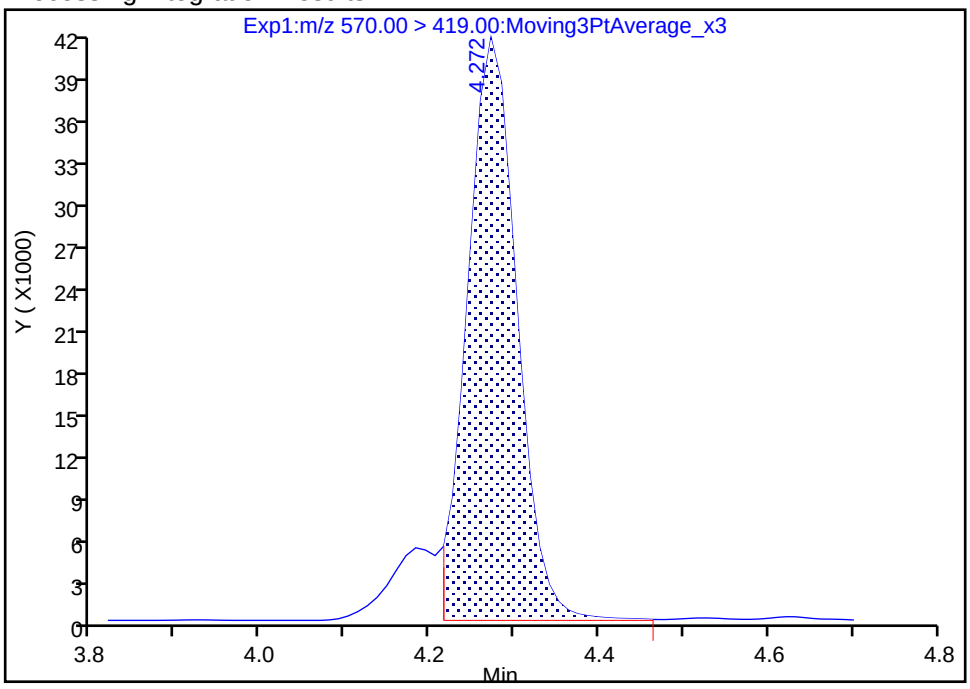
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d				
Injection Date:	13-Jun-2022 18:06:14	Instrument ID:	LC812		
Lims ID:	LCSD 200-180717/3-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

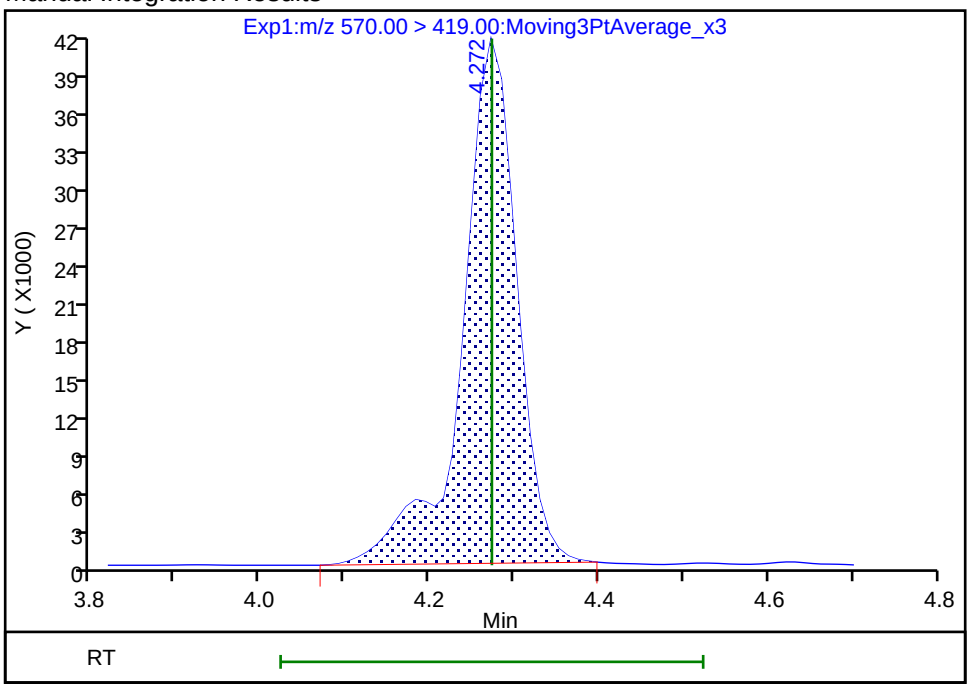
Processing Integration Results

RT: 4.27
Area: 166476
Amount: 0.886203
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 184923
Amount: 0.984402
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:43:57

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Burlington

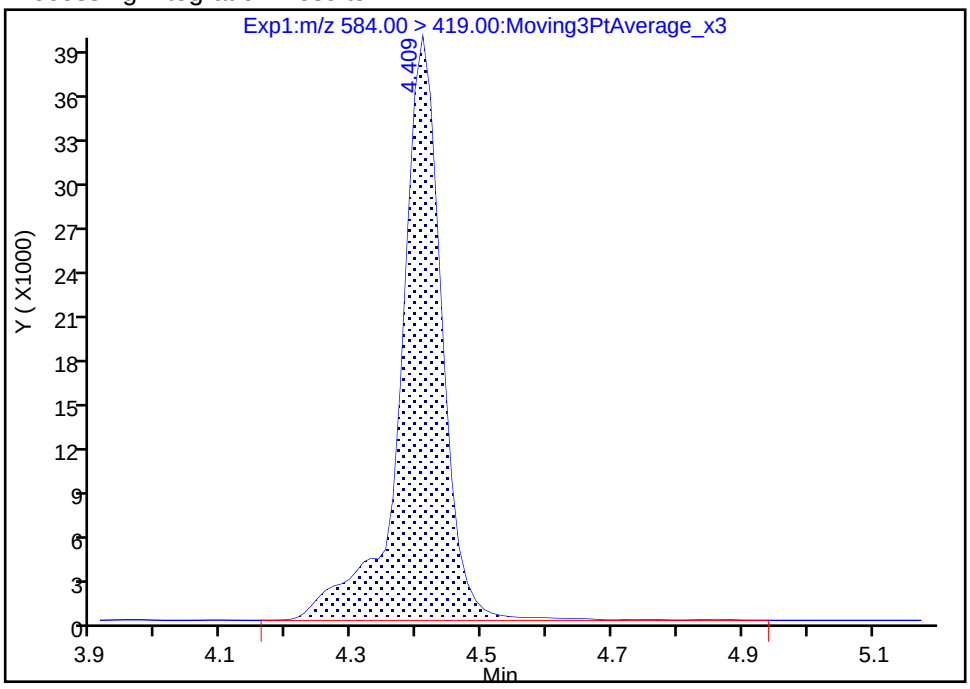
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d
Injection Date: 13-Jun-2022 18:06:14 Instrument ID: LC812
Lims ID: LCSD 200-180717/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

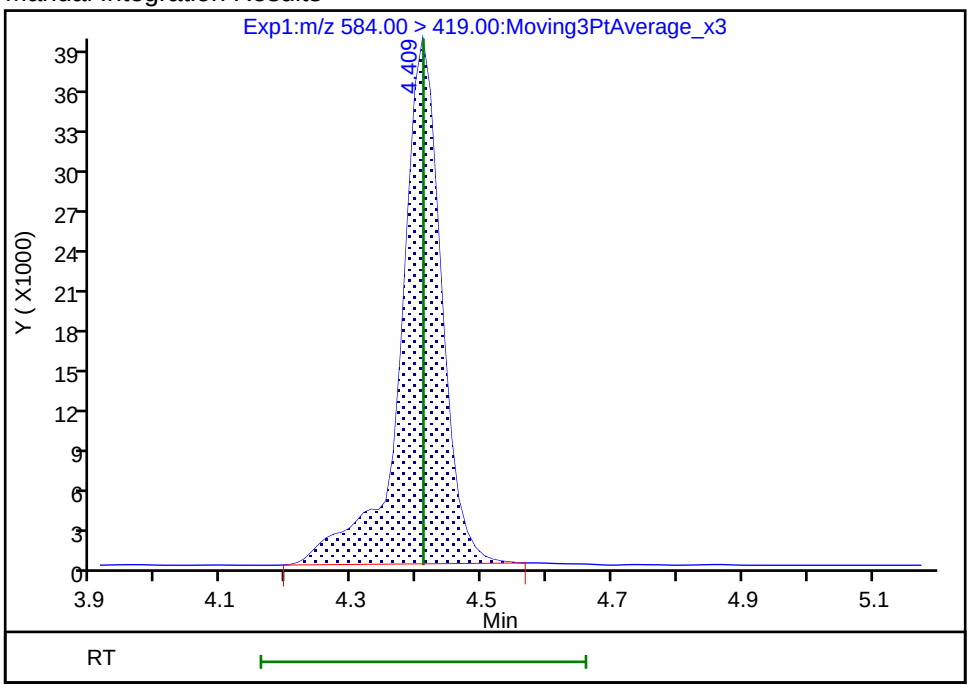
Processing Integration Results

RT: 4.41
Area: 174544
Amount: 0.963581
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 171274
Amount: 0.945529
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:44:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

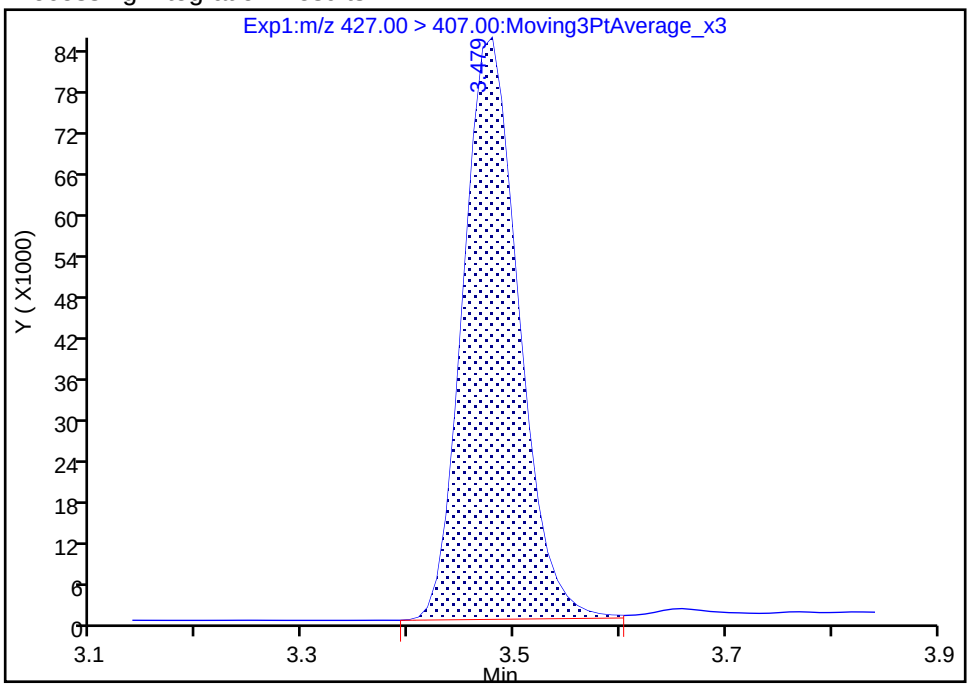
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d				
Injection Date:	13-Jun-2022 18:06:14	Instrument ID:	LC812		
Lims ID:	LCSD 200-180717/3-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

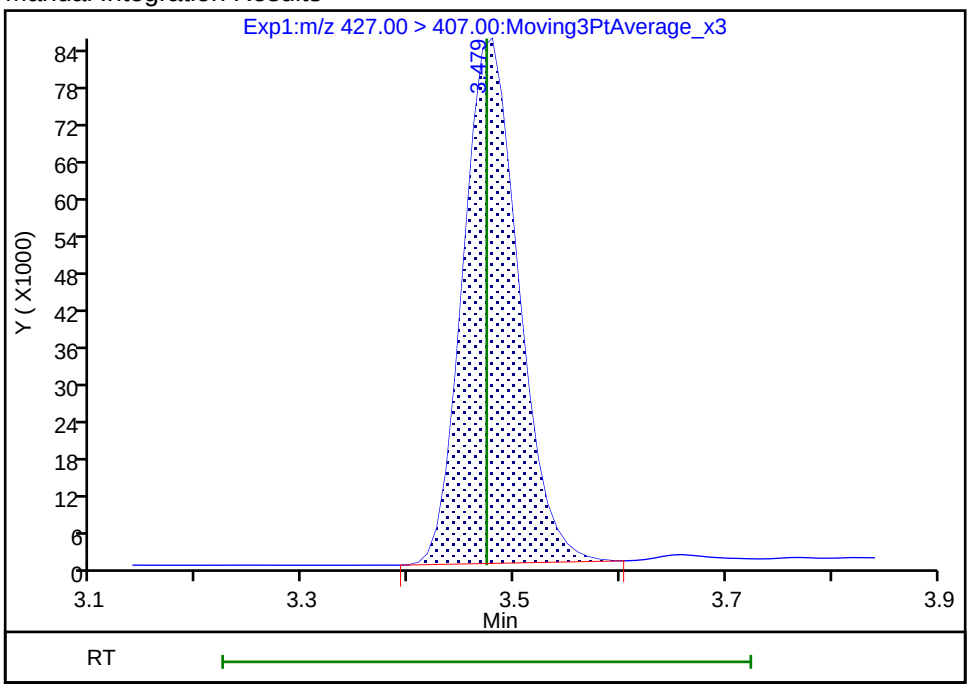
Processing Integration Results

RT: 3.48
Area: 312715
Amount: 1.055047
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 310377
Amount: 1.046954
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:42:50

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

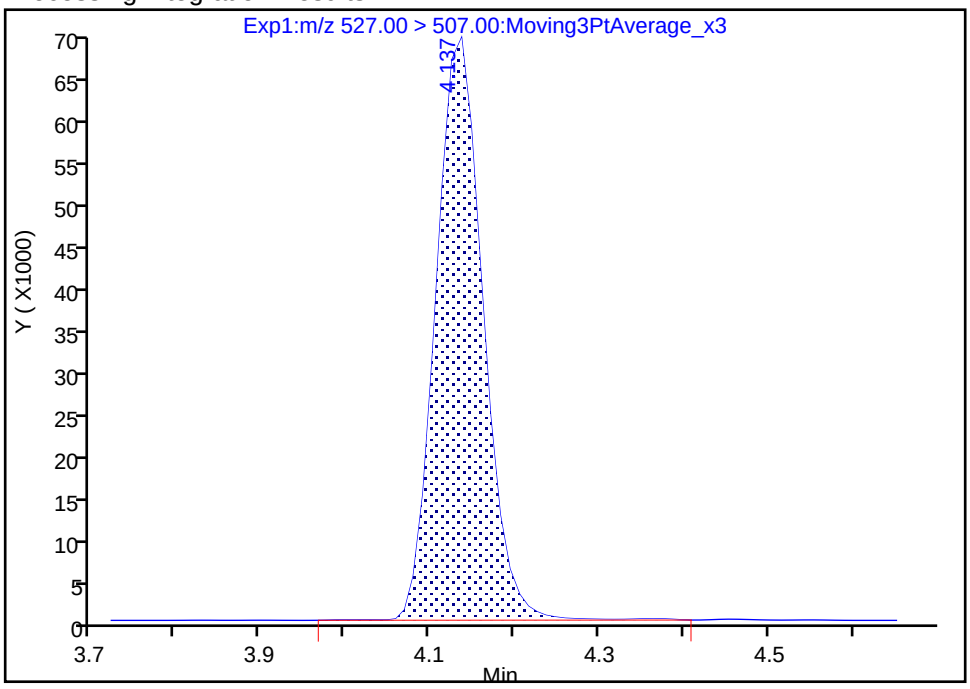
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d				
Injection Date:	13-Jun-2022 18:06:14	Instrument ID:	LC812		
Lims ID:	LCSD 200-180717/3-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

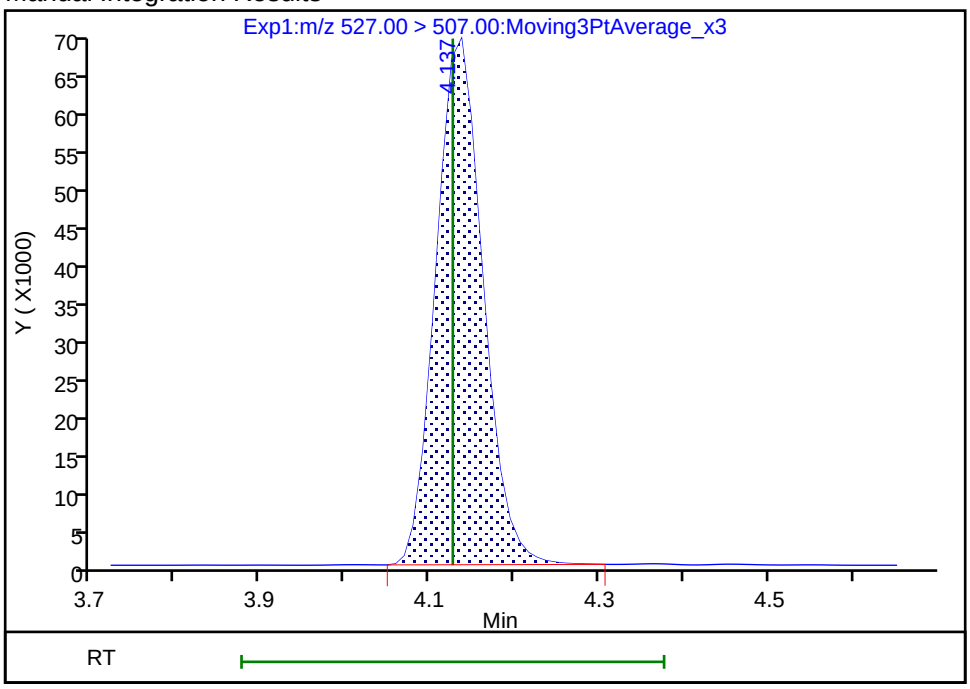
Processing Integration Results

RT: 4.14
Area: 268331
Amount: 1.057523
Amount Units: ng/ml



Manual Integration Results

RT: 4.14
Area: 266707
Amount: 1.060454
Amount Units: ng/ml



Reviewer: khanphomeea, 14-Jun-2022 10:10:31

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

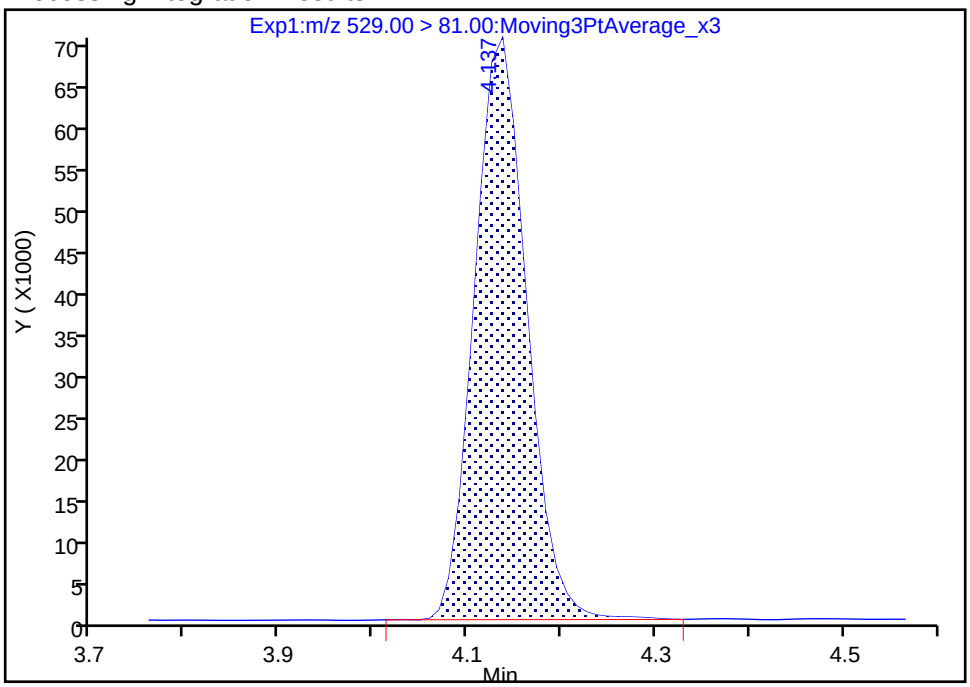
Data File:	\\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d				
Injection Date:	13-Jun-2022 18:06:14	Instrument ID:	LC812		
Lims ID:	LCSD 200-180717/3-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 26 M2-8:2 FTS, CAS: STL02280

Signal: 1

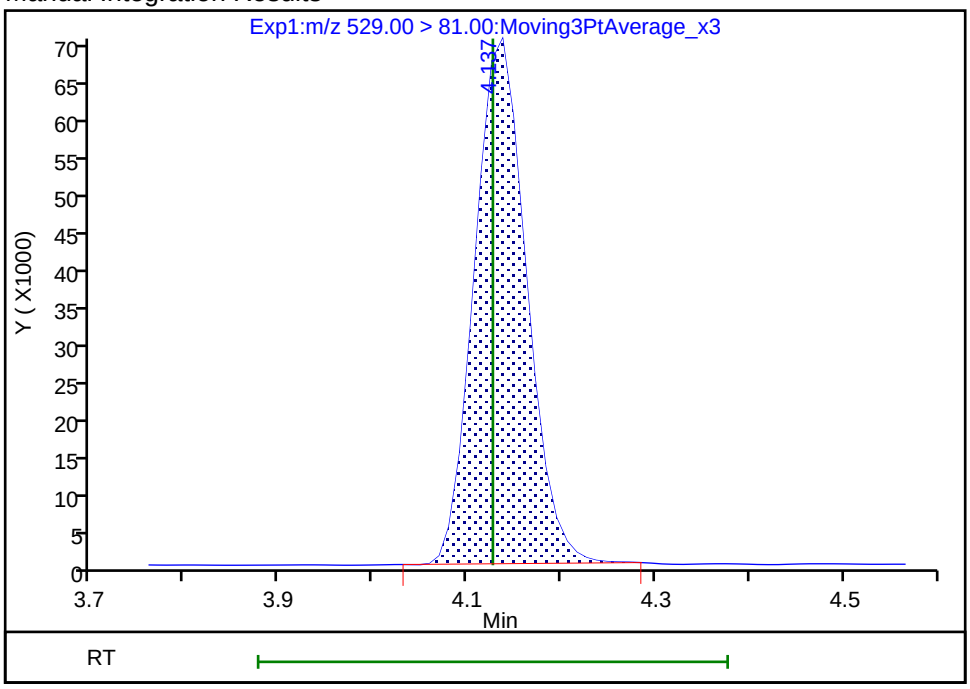
Processing Integration Results

RT: 4.14
Area: 272979
Amount: 1.081691
Amount Units: ng/ml



Manual Integration Results

RT: 4.14
Area: 270577
Amount: 1.072173
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:43:45

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Burlington

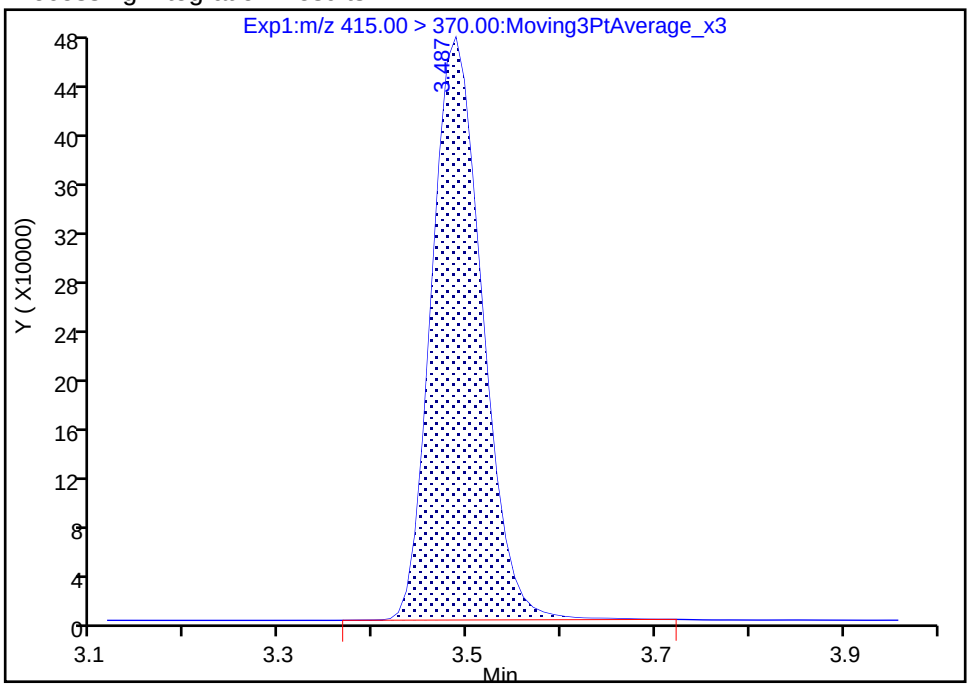
Data File: \\chromfs\Burlington\ChromData\LC812\20220613-51257.b\PA220613A08.d
Injection Date: 13-Jun-2022 18:06:14 Instrument ID: LC812
Lims ID: LCSD 200-180717/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

* 62 13C2 PFOA, CAS: STL00623

Signal: 1

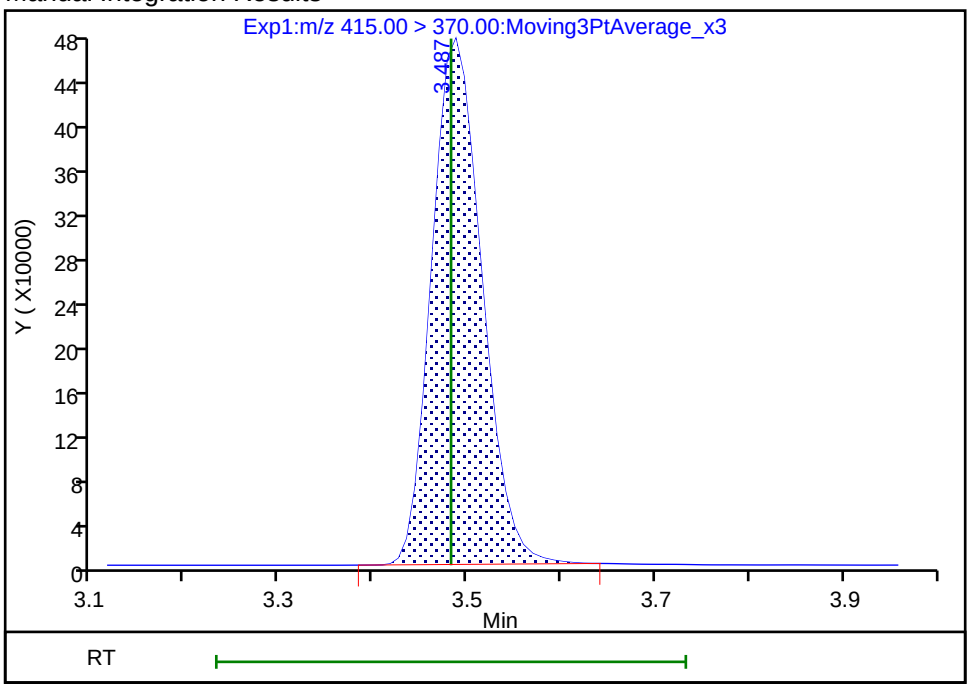
Processing Integration Results

RT: 3.49
Area: 1759377
Amount: 1.250000
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 1749467
Amount: 1.250000
Amount Units: ng/ml



Reviewer: deannd, 14-Jun-2022 11:42:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: LC812 Start Date: 05/05/2022 14:40

Analysis Batch Number: 179551 End Date: 05/05/2022 16:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/05/2022 14:40	1		C-18 4.6(mm)
ZZZZZ		05/05/2022 14:49	1		C-18 4.6(mm)
ZZZZZ		05/05/2022 14:57	1		C-18 4.6(mm)
ZZZZZ		05/05/2022 15:05	1		C-18 4.6(mm)
IC 200-179551/5		05/05/2022 15:13	1	PA220505ICAL05.d	C-18 4.6(mm)
IC 200-179551/6		05/05/2022 15:21	1	PA220505ICAL06.d	C-18 4.6(mm)
IC 200-179551/7		05/05/2022 15:29	1	PA220505ICAL07.d	C-18 4.6(mm)
ICIS 200-179551/8		05/05/2022 15:38	1	PA220505ICAL08.d	C-18 4.6(mm)
IC 200-179551/9		05/05/2022 15:46	1	PA220505ICAL09.d	C-18 4.6(mm)
IC 200-179551/10		05/05/2022 15:54	1	PA220505ICAL10.d	C-18 4.6(mm)
ICB 200-179551/11		05/05/2022 16:02	1	PA220505ICAL11.d	C-18 4.6(mm)
ICV 200-179551/12		05/05/2022 16:10	1	PA220505ICAL12.d	C-18 4.6(mm)
ZZZZZ		05/05/2022 16:18	1		C-18 4.6(mm)

537 (modified)

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: LC812 Start Date: 06/13/2022 17:09

Analysis Batch Number: 180744 End Date: 06/13/2022 21:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/13/2022 17:09	1		C-18 4.6(mm)
ZZZZZ		06/13/2022 17:17	1		C-18 4.6(mm)
ZZZZZ		06/13/2022 17:25	1		C-18 4.6(mm)
CCB 200-180744/4		06/13/2022 17:33	1	PA220613A04.d	C-18 4.6(mm)
CCVLIS 200-180744/5		06/13/2022 17:41	1	PA220613A05.d	C-18 4.6(mm)
MB 200-180717/1-A		06/13/2022 17:49	1	PA220613A06.d	C-18 4.6(mm)
LCS 200-180717/2-A		06/13/2022 17:58	1	PA220613A07.d	C-18 4.6(mm)
LCSD 200-180717/3-A		06/13/2022 18:06	1	PA220613A08.d	C-18 4.6(mm)
ZZZZZ		06/13/2022 18:14	1		C-18 4.6(mm)
ZZZZZ		06/13/2022 18:22	1		C-18 4.6(mm)
ZZZZZ		06/13/2022 18:30	1		C-18 4.6(mm)
ZZZZZ		06/13/2022 18:38	1		C-18 4.6(mm)
ZZZZZ		06/13/2022 18:47	1		C-18 4.6(mm)
480-198722-1	CD-1	06/13/2022 18:55	1	PA220613A14.d	C-18 4.6(mm)
480-198722-2	CD-1RA	06/13/2022 19:03	1	PA220613A15.d	C-18 4.6(mm)
480-198722-3	MW-1B	06/13/2022 19:11	1	PA220613A16.d	C-18 4.6(mm)
CCV 200-180744/17		06/13/2022 19:19	1	PA220613A17.d	C-18 4.6(mm)
480-198818-1	MW-1A	06/13/2022 19:27	1	PA220613A18.d	C-18 4.6(mm)
480-198818-2	MW-2A	06/13/2022 19:36	1	PA220613A19.d	C-18 4.6(mm)
480-198818-3	MW-2B	06/13/2022 19:44	1	PA220613A20.d	C-18 4.6(mm)
480-198818-4	MW-6A	06/13/2022 19:52	1	PA220613A21.d	C-18 4.6(mm)
480-198818-5	MW-6B	06/13/2022 20:00	1	PA220613A22.d	C-18 4.6(mm)
ZZZZZ		06/13/2022 20:08	50		C-18 4.6(mm)
ZZZZZ		06/13/2022 20:17	1		C-18 4.6(mm)
ZZZZZ		06/13/2022 20:25	1		C-18 4.6(mm)
ZZZZZ		06/13/2022 20:33	1		C-18 4.6(mm)
ZZZZZ		06/13/2022 20:41	1		C-18 4.6(mm)
CCV 200-180744/32		06/13/2022 21:22	1	PA220613A32.d	C-18 4.6(mm)

537 (modified)

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 179551 Batch Start Date: 05/05/22 14:40 Batch Analyst: Dean, Nathan

Batch Method: 537 (modified) Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCPFAS28NCICV 00008	PFAS32NCBLK20 00015	PFAS32NCIC1 00011	PFAS32NCIC2 00010	PFAS32NCIC3 00012	PFAS32NCIC4 00030
IC 200-179551/5		537 (modified)				100 uL			
IC 200-179551/6		537 (modified)					100 uL		
IC 200-179551/7		537 (modified)						100 uL	
ICIS 200-179551/8		537 (modified)							100 uL
IC 200-179551/9		537 (modified)							
IC 200-179551/10		537 (modified)							
ICB 200-179551/11		537 (modified)			100 uL				
ICV 200-179551/12		537 (modified)		100 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFAS32NCIC5 00025	PFAS32NCIC6 00010				
IC 200-179551/5		537 (modified)							
IC 200-179551/6		537 (modified)							
IC 200-179551/7		537 (modified)							
ICIS 200-179551/8		537 (modified)							
IC 200-179551/9		537 (modified)		100 uL					
IC 200-179551/10		537 (modified)			100 uL				
ICB 200-179551/11		537 (modified)							
ICV 200-179551/12		537 (modified)							

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 179551 Batch Start Date: 05/05/22 14:40 Batch Analyst: Dean, Nathan

Batch Method: 537 (modified) Batch End Date:

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 180717 Batch Start Date: 06/13/22 08:55 Batch Analyst: Dean, Nathan

Batch Method: 3535 Batch End Date: 06/13/22 15:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	LCPFC32MTXStk 00044	LCPFIDA21_spk 00002
MB 200-180717/1		3535, 537 (modified)		250 g	0 g	250 mL	10 mL		100 uL
LCS 200-180717/2		3535, 537 (modified)		250 g	0 g	250 mL	10 mL	25 uL	100 uL
LCSD 200-180717/3		3535, 537 (modified)		250 g	0 g	250 mL	10 mL	25 uL	100 uL
480-198722-C-1	CD-1	3535, 537 (modified)	T	312.86 g	27.50 g	285.4 mL	10 mL		100 uL
480-198722-C-2	CD-1RA	3535, 537 (modified)	T	292.84 g	27.40 g	265.4 mL	10 mL		100 uL
480-198722-C-3	MW-1B	3535, 537 (modified)	T	302.00 g	26.54 g	275.5 mL	10 mL		100 uL
480-198818-D-1	MW-1A	3535, 537 (modified)	T	299.74 g	27.36 g	272.4 mL	10 mL		100 uL
480-198818-C-2	MW-2A	3535, 537 (modified)	T	316.21 g	27.40 g	288.8 mL	10 mL		100 uL
480-198818-C-3	MW-2B	3535, 537 (modified)	T	322.08 g	27.42 g	294.7 mL	10 mL		100 uL
480-198818-C-4	MW-6A	3535, 537 (modified)	T	301.30 g	27.37 g	273.9 mL	10 mL		100 uL
480-198818-D-5	MW-6B	3535, 537 (modified)	T	309.98 g	27.39 g	282.6 mL	10 mL		100 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFAS21 IS Stk 00044	AnalysisComment				
MB 200-180717/1		3535, 537 (modified)		100 uL					
LCS 200-180717/2		3535, 537 (modified)		100 uL					
LCSD 200-180717/3		3535, 537 (modified)		100 uL					
480-198722-C-1	CD-1	3535, 537 (modified)	T	100 uL	280.70 g of sample extracted. Remaining sediment discarded.				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 180717 Batch Start Date: 06/13/22 08:55 Batch Analyst: Dean, Nathan

Batch Method: 3535 Batch End Date: 06/13/22 15:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFAS21 IS Stk 00044	AnalysisComment				
480-198722-C-2	CD-1RA	3535, 537 (modified)	T	100 uL	262.86 g of sample extracted. Remaining sediment discarded.				
480-198722-C-3	MW-1B	3535, 537 (modified)	T	100 uL					
480-198818-D-1	MW-1A	3535, 537 (modified)	T	100 uL					
480-198818-C-2	MW-2A	3535, 537 (modified)	T	100 uL	286.86 g of sample extracted. Remaining sediment discarded.				
480-198818-C-3	MW-2B	3535, 537 (modified)	T	100 uL					
480-198818-C-4	MW-6A	3535, 537 (modified)	T	100 uL	271.14 g of sample extracted. Remaining sediment discarded.				
480-198818-D-5	MW-6B	3535, 537 (modified)	T	100 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PFAS BATCH WORKSHEET

Lab Name: Eurofins Burlington Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 180717 Batch Start Date: 06/13/22 08:55 Batch Analyst: Dean, Nathan

Batch Method: 3535 Batch End Date: 06/13/22 15:45

Batch Notes	
SPE Cartridge Type	Strata PFAS (WAX/GBC) 500mg/50mg/6mg
SPE Cartridge Lot ID	Sorbent Lot: W0928/1252 Prod Lot: D02434
Balance ID	M02926
Manifold ID	IDA 1&2
Pipette/Syringe/Dispenser ID	QH77727
Solvent Name	Methanol (0.3% NH4OH)
Solvent Lot #	1608690
Rinse Solvent Name	30% MeOH
Rinse Solvent Lot	1603022
Analyst ID - Spike Analyst	NDD
Analyst ID - Spike Witness Analyst	KFW
Batch Comment	IDA:D MTX:A IS:A

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG No.: 198720

Project: Towslee LF Baseline Q2 2022

Client Sample ID	Lab Sample ID
CD-1	480-198720-1
CD-1RA	480-198720-2
MW-1B	480-198720-3
DUP CD-1RA	480-198720-4
MW-1A	480-198813-1
MW-2A	480-198813-2
MW-2B	480-198813-3
MW-3A	480-198813-4
MW-3B	480-198813-5
MW-4A	480-198813-6
MW-5A	480-198813-7
MW-6A	480-198813-8
MW-6B	480-198813-9
MW-7A	480-198813-10

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CD-1 | Lab Sample ID: 480-198720-1

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG ID.: 198720

Matrix: Water | Date Sampled: 06/06/2022 13:20

Reporting Basis: WET | Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	9.6	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.45	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	92.8	0.50		mg/L			1	6010C
7440-47-3	Chromium	0.015	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	0.0058	0.0040		mg/L			1	6010C
7440-50-8	Copper	0.043	0.010		mg/L			1	6010C
7439-89-6	Iron	11.2	0.050		mg/L			1	6010C
7439-92-1	Lead	0.010	0.010		mg/L			1	6010C
7439-95-4	Magnesium	15.8	0.20		mg/L			1	6010C
7439-96-5	Manganese	5.5	0.0030		mg/L			1	6010C
7440-02-0	Nickel	0.015	0.010		mg/L			1	6010C
7440-09-7	Potassium	3.2	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	4.3	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	0.012	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.054	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00040		mg/L			1	7470A
	Hardness as calcium carbonate	297	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: CD-1 | Lab Sample ID: 480-198720-1

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG ID.: 198720

Matrix: Water | Date Sampled: 06/06/2022 13:20

Reporting Basis: WET | Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.066	0.0020		mg/L		^2	1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	40.6	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	ND	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	9.5	0.20		mg/L			1	6010C
7439-96-5	Manganese	ND	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	1.6	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	4.0	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CD-1RA
Lab Sample ID: 480-198720-2
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/06/2022 12:10
Reporting Basis: WET
Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	5.8	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.22	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	49.4	0.50		mg/L			1	6010C
7440-47-3	Chromium	0.0074	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	7.2	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	12.6	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.56	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	2.3	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	5.2	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	0.0084	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.015	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00040		mg/L			1	7470A
	Hardness as calcium carbonate	175	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: CD-1RA
Lab Sample ID: 480-198720-2
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/06/2022 12:10
Reporting Basis: WET
Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.15	0.0020		mg/L		^2	1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	41.5	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	ND	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	9.9	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.14	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	0.70	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	4.6	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-1B
Lab Sample ID: 480-198720-3
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/06/2022 14:40
Reporting Basis: WET
Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	1.5	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.24	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	34.4	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	1.2	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	8.2	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.61	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	0.81	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	8.5	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.011	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	120	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DUP CD-1RA
Lab Sample ID: 480-198720-4
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/06/2022 12:10
Reporting Basis: WET
Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	5.3	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.22	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	50.1	0.50		mg/L			1	6010C
7440-47-3	Chromium	0.0068	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	6.6	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	12.6	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.56	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	2.2	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	5.3	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	0.0074	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.014	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	177	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: DUP CD-1RA
Lab Sample ID: 480-198720-4
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/06/2022 12:10
Reporting Basis: WET
Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.15	0.0020		mg/L		^2	1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	43.4	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	ND	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	10.1	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.14	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	0.71	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	4.8	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-1A
Lab Sample ID: 480-198813-1
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 10:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.39	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.068	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.020	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	45.8	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.37	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	10.6	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.038	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	0.96	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	11.1	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	158	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-2A
Lab Sample ID: 480-198813-2
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 10:45
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	5.4	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.50	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.21	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	75.8	0.50		mg/L			1	6010C
7440-47-3	Chromium	0.0080	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	0.0050	0.0040		mg/L			1	6010C
7440-50-8	Copper	0.010	0.010		mg/L			1	6010C
7439-89-6	Iron	9.7	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	17.1	0.20		mg/L			1	6010C
7439-96-5	Manganese	10.6	0.0030		mg/L			1	6010C
7440-02-0	Nickel	0.010	0.010		mg/L			1	6010C
7440-09-7	Potassium	9.8	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	12.7	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	0.0094	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.017	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	260	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-2A
Lab Sample ID: 480-198813-2
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 10:45
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.47	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.23	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	96.8	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	ND	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	19.7	0.20		mg/L			1	6010C
7439-96-5	Manganese	12.2	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	9.9	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	15.3	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-2B
Lab Sample ID: 480-198813-3
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 11:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.31	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	1.0	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.17	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	166	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.51	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	36.1	0.20		mg/L			1	6010C
7439-96-5	Manganese	4.6	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	1.9	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	37.0	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.012	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	563	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-3A
Lab Sample ID: 480-198813-4
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 08:30
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.38	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.37	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	48.0	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.39	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	10.0	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.31	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	1.3	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	5.6	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	161	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-3B
Lab Sample ID: 480-198813-5
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 08:45
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.19	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.030	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	43.4	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.065	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	13.0	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.028	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	0.96	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	7.1	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	162	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-4A
Lab Sample ID: 480-198813-6
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 09:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.88	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.054	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	106	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.072	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	23.3	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.48	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	1.2	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	13.0	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	359	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-5A
Lab Sample ID: 480-198813-7
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 09:30
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.41	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.55	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	37.6	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.27	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	10.8	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.083	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	0.87	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	8.1	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	138	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-6A
Lab Sample ID: 480-198813-8
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 11:55
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	45.3	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	0.062	0.015		mg/L			1	6010C
7440-39-3	Barium	1.3	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	0.0023	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.032	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	72.1	0.50		mg/L			1	6010C
7440-47-3	Chromium	0.068	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	0.074	0.0040		mg/L			1	6010C
7440-50-8	Copper	0.082	0.010		mg/L			1	6010C
7439-89-6	Iron	80.3	0.050		mg/L			1	6010C
7439-92-1	Lead	0.030	0.010		mg/L			1	6010C
7439-95-4	Magnesium	22.4	0.20		mg/L			1	6010C
7439-96-5	Manganese	6.9	0.0030		mg/L			1	6010C
7440-02-0	Nickel	0.092	0.010		mg/L			1	6010C
7440-09-7	Potassium	9.4	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	28.7	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	0.060	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.15	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00040		mg/L			1	7470A
	Hardness as calcium carbonate	272	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-6A
Lab Sample ID: 480-198813-8
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 11:55
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.20	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.26	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	72.1	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.18	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	10.5	0.20		mg/L			1	6010C
7439-96-5	Manganese	1.0	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	2.4	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	29.9	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-6B
Lab Sample ID: 480-198813-9
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 12:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.27	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.30	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	49.5	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.24	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	11.5	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.035	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	1.0	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	35.5	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.012	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	171	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-7A
Lab Sample ID: 480-198813-10
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 13:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	3.9	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.24	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.16	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	92.5	0.50		mg/L			1	6010C
7440-47-3	Chromium	0.0047	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	4.9	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	18.8	0.20		mg/L			1	6010C
7439-96-5	Manganese	4.7	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	2.8	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	29.5	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	0.0055	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.018	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	309	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-7A
Lab Sample ID: 480-198813-10
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 13:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.21	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.17	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	99.1	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	ND	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	19.0	0.20		mg/L			1	6010C
7439-96-5	Manganese	4.4	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	2.0	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	32.0	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-66-6	Zinc	0.010	0.010		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

ICV Source: MEI_MSS_ICV_00109 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00241

Analyte	ICV 480-629561/5 06/09/2022 12:24				CCV 480-629561/18 06/10/2022 00:36				CCV 480-629561/22 06/10/2022 01:22			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	36.44		37.5	97	50.77		50.0	102	50.16		50.0	100
Antimony	0.772		0.750	103	1.01		1.00	101	1.00		1.00	100
Arsenic	0.755		0.750	101	1.03		1.00	103	1.02		1.00	102
Barium	0.746		0.750	99	1.04		1.00	104	1.02		1.00	102
Beryllium	0.755		0.750	101	1.03		1.00	103	1.01		1.00	101
Boron	0.780		0.750	104	1.06		1.00	106	1.04		1.00	104
Cadmium	0.748		0.750	100	1.04		1.00	104	1.03		1.00	103
Calcium	36.99		37.5	99	51.18		50.0	102	50.64		50.0	101
Chromium	0.762		0.750	102	1.02		1.00	102	1.01		1.00	101
Cobalt	0.739		0.750	99	1.03		1.00	103	1.02		1.00	102
Copper	0.751		0.750	100	1.02		1.00	102	1.01		1.00	101
Iron	37.51		37.5	100	52.63		50.0	105	52.07		50.0	104
Lead	0.743		0.750	99	1.04		1.00	104	1.03		1.00	103
Magnesium	37.09		37.5	99	51.00		50.0	102	50.72		50.0	101
Manganese	0.772		0.750	103	1.04		1.00	104	1.03		1.00	103
Nickel	0.749		0.750	100	1.03		1.00	103	1.02		1.00	102
Potassium	36.37		37.5	97	52.58		50.0	105	51.81		50.0	104
Selenium	0.773		0.750	103	1.02		1.00	102	1.01		1.00	101
Silver	0.756		0.750	101	0.997		1.00	100	0.995		1.00	100
Sodium	36.30		37.5	97	51.92		50.0	104	51.16		50.0	102
Thallium	0.763		0.750	102	1.05		1.00	105	1.03		1.00	103
Vanadium	0.757		0.750	101	1.03		1.00	103	1.02		1.00	102
Zinc	0.754		0.750	101	1.08		1.00	108	1.07		1.00	107

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

ICV Source: MEI_MSS_ICV_00109 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00241

Analyte	CCV 480-629561/34 06/10/2022 02:08				CCV 480-629561/46 06/10/2022 02:54							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	51.86		50.0	104	52.29		50.0	105				
Antimony	1.03		1.00	103	1.05		1.00	105				
Arsenic	1.04		1.00	104	1.05		1.00	105				
Barium	1.04		1.00	104	1.04		1.00	104				
Beryllium	1.03		1.00	103	1.04		1.00	104				
Boron	1.06		1.00	106	1.06		1.00	106				
Cadmium	1.05		1.00	105	1.05		1.00	105				
Calcium	52.27		50.0	105	52.72		50.0	105				
Chromium	1.04		1.00	104	1.05		1.00	105				
Cobalt	1.04		1.00	104	1.04		1.00	104				
Copper	1.04		1.00	104	1.05		1.00	105				
Iron	53.36		50.0	107	53.63		50.0	107				
Lead	1.05		1.00	105	1.05		1.00	105				
Magnesium	52.39		50.0	105	52.83		50.0	106				
Manganese	1.06		1.00	106	1.06		1.00	106				
Nickel	1.05		1.00	105	1.05		1.00	105				
Potassium	53.02		50.0	106	53.50		50.0	107				
Selenium	1.04		1.00	104	1.05		1.00	105				
Silver	1.02		1.00	102	1.04		1.00	104				
Sodium	52.32		50.0	105	52.76		50.0	106				
Thallium	1.05		1.00	105	1.06		1.00	106				
Vanadium	1.05		1.00	105	1.06		1.00	106				
Zinc	1.08		1.00	108	1.09		1.00	109				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

ICV Source: MEI_10_CCVL_00447 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00447

Analyte	ICVL 480-629561/7 06/09/2022 12:31				CCVL 480-629561/20 06/10/2022 00:44				CCVL 480-629561/24 06/10/2022 01:30			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	ND		0.200	87	0.178	J	0.200	89	0.187	J	0.200	93
Antimony	ND		0.0200	87	0.0172	J	0.0200	86	0.0202		0.0200	101
Arsenic	ND		0.0150	81	0.0125	J	0.0150	83	0.0136	J	0.0150	91
Barium	0.00211		0.00200	106	0.00207		0.00200	104	0.00209		0.00200	105
Beryllium	0.00206		0.00200	103	0.00205		0.00200	103	0.00202		0.00200	101
Boron	ND		0.0200	97	0.0186	J	0.0200	93	0.0187	J	0.0200	93
Cadmium	0.00211		0.00200	106	0.00194	J	0.00200	97	0.00189	J	0.00200	95
Calcium	0.506		0.500	101	0.490	J	0.500	98	0.500		0.500	100
Chromium	ND		0.00400	91	0.00326	J	0.00400	82	0.00335	J	0.00400	84
Cobalt	ND		0.00400	96	0.00370	J	0.00400	93	0.00381	J	0.00400	95
Copper	0.0111		0.0100	111	0.0102		0.0100	102	0.0105		0.0100	105
Iron	0.0506		0.0500	101	0.0497	J	0.0500	99	0.0510		0.0500	102
Lead	ND		0.0100	88	0.00891	J	0.0100	89	0.0101		0.0100	101
Magnesium	ND		0.200	100	0.189	J	0.200	95	0.192	J	0.200	96
Manganese	0.00336		0.00300	112	0.00288	J	0.00300	96	0.00307		0.00300	102
Nickel	ND		0.0100	98	0.00917	J	0.0100	92	0.00953	J	0.0100	95
Potassium	0.515		0.500	103	0.486	J	0.500	97	0.463	J	0.500	93
Selenium	ND		0.0250	84	0.0207	J	0.0250	83	0.0190	J	0.0250	76
Silver	ND		0.00600	83	0.00501	J	0.00600	84	0.00505	J	0.00600	84
Sodium	ND		1.01	96	0.992	J	1.01	98	0.991	J	1.01	98
Thallium	0.0209		0.0200	104	0.0210		0.0200	105	0.0205		0.0200	102
Vanadium	ND		0.00500	93	0.00456	J	0.00500	91	0.00465	J	0.00500	93
Zinc	ND		0.0100	77	0.00733	J	0.0100	73	0.00737	J	0.0100	74

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

ICV Source: MEI_10_CCVL_00447 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00447

Analyte	CCVL 480-629561/36 06/10/2022 02:15				CCVL 480-629561/48 06/10/2022 03:01							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.173	J	0.200	86	0.167	J	0.200	84				
Antimony	0.0186	J	0.0200	93	0.0196	J	0.0200	98				
Arsenic	0.0118	J	0.0150	79	0.0135	J	0.0150	90				
Barium	0.00207		0.00200	104	0.00206		0.00200	103				
Beryllium	0.00199	J	0.00200	100	0.00200		0.00200	100				
Boron	0.0188	J	0.0200	94	0.0188	J	0.0200	94				
Cadmium	0.00210		0.00200	105	0.00194	J	0.00200	97				
Calcium	0.498	J	0.500	100	0.499	J	0.500	100				
Chromium	0.00366	J	0.00400	92	0.00362	J	0.00400	91				
Cobalt	0.00389	J	0.00400	97	0.00380	J	0.00400	95				
Copper	0.0104		0.0100	104	0.0106		0.0100	106				
Iron	0.0498	J	0.0500	100	0.0518		0.0500	104				
Lead	0.00954	J	0.0100	95	0.00923	J	0.0100	92				
Magnesium	0.192	J	0.200	96	0.194	J	0.200	97				
Manganese	0.00289	J	0.00300	96	0.00298	J	0.00300	99				
Nickel	0.00943	J	0.0100	94	0.00967	J	0.0100	97				
Potassium	0.503		0.500	101	0.476	J	0.500	95				
Selenium	0.0192	J	0.0250	77	0.0184	J	0.0250	73				
Silver	0.00485	J	0.00600	81	0.00560	J	0.00600	93				
Sodium	0.977	J	1.01	97	0.963	J	1.01	96				
Thallium	0.0207		0.0200	103	0.0214		0.0200	107				
Vanadium	0.00456	J	0.00500	91	0.00477	J	0.00500	95				
Zinc	0.00701	J	0.0100	70								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

ICV Source: MEI_MSS_ICV_00109 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00241

Analyte	ICV 480-629768/5 06/10/2022 12:21				CCV 480-629768/23 06/10/2022 14:47				CCV 480-629768/30 06/10/2022 15:38			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Zinc	0.751		0.750	100	1.03		1.00	103	1.05		1.00	105
Aluminum	36.58		37.5	98	47.85		50.0	96	49.39		50.0	99
Antimony	0.766		0.750	102	0.947		1.00	95	0.979		1.00	98
Arsenic	0.761		0.750	101	0.977		1.00	98	1.01		1.00	101
Barium	0.750		0.750	100	0.999		1.00	100	1.03		1.00	103
Beryllium	0.757		0.750	101	0.980		1.00	98	1.01		1.00	101
Boron	0.778		0.750	104	1.01		1.00	101	1.05		1.00	105
Cadmium	0.746		0.750	99	0.995		1.00	100	1.03		1.00	103
Calcium	37.05		37.5	99	48.47		50.0	97	49.72		50.0	99
Chromium	0.761		0.750	101	0.949		1.00	95	0.982		1.00	98
Cobalt	0.742		0.750	99	0.995		1.00	100	1.03		1.00	103
Copper	0.745		0.750	99	0.952		1.00	95	0.992		1.00	99
Iron	37.44		37.5	100	50.05		50.0	100	51.46		50.0	103
Lead	0.745		0.750	99	0.991		1.00	99	1.02		1.00	102
Magnesium	36.78		37.5	98	47.57		50.0	95	48.87		50.0	98
Manganese	0.766		0.750	102	0.977		1.00	98	1.01		1.00	101
Nickel	0.748		0.750	100	0.979		1.00	98	1.01		1.00	101
Potassium	36.46		37.5	97	48.88		50.0	98	50.57		50.0	101
Selenium	0.768		0.750	102	0.964		1.00	96	0.994		1.00	99
Silver	0.754		0.750	101	0.926		1.00	93	0.963		1.00	96
Sodium	36.45		37.5	97	48.94		50.0	98	50.43		50.0	101
Thallium	0.762		0.750	102	0.997		1.00	100	1.03		1.00	103
Vanadium	0.750		0.750	100	0.963		1.00	96	0.998		1.00	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

ICV Source: MEI_10_CCVL_00449 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00449

Analyte	ICVL 480-629768/7 06/10/2022 12:29				CCVL 480-629768/25 06/10/2022 14:59				CCVL 480-629768/32 06/10/2022 15:45			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Zinc	ND		0.0100	78	0.00790	J	0.0100	79	0.00854	J	0.0100	85
Aluminum	ND		0.200	89	0.187	J	0.200	94	0.178	J	0.200	89
Antimony	ND		0.0200	84	0.0161	J	0.0200	80	0.0155	J	0.0200	78
Arsenic	0.0155		0.0150	104	0.0132	J	0.0150	88	0.0129	J	0.0150	86
Barium	0.00209		0.00200	105	0.00213		0.00200	107	0.00214		0.00200	107
Beryllium	0.00204		0.00200	102	0.00205		0.00200	103	0.00202		0.00200	101
Boron	0.0203		0.0200	102	0.0192	J	0.0200	96	0.0196	J	0.0200	98
Cadmium	ND		0.00200	94	0.00187	J	0.00200	94	0.00182	J	0.00200	91
Calcium	0.506		0.500	101	0.497	J	0.500	99	0.483	J	0.500	97
Chromium	0.00429		0.00400	107	0.00403		0.00400	101	0.00410		0.00400	103
Cobalt	ND		0.00400	96	0.00386	J	0.00400	97	0.00385	J	0.00400	96
Copper	ND		0.0100	99	0.00964	J	0.0100	96	0.00938	J	0.0100	94
Iron	0.0500		0.0500	100	0.0498	J	0.0500	100	0.0492	J	0.0500	98
Lead	ND		0.0100	99	0.0106		0.0100	106	0.0103		0.0100	103
Magnesium	ND		0.200	98	0.182	J	0.200	91	0.185	J	0.200	92
Manganese	0.00340		0.00300	113	0.00325		0.00300	108	0.00329		0.00300	110
Nickel	ND		0.0100	97	0.00945	J	0.0100	95	0.00961	J	0.0100	96
Potassium	0.522		0.500	104	0.437	J	0.500	87	0.474	J	0.500	95
Selenium	ND		0.0250	93	0.0206	J	0.0250	82	0.0218	J	0.0250	87
Silver	ND		0.00600	92	0.00602		0.00600	100	0.00649		0.00600	108
Sodium	ND		1.01	96	0.984	J	1.01	98	1.00		1.01	99
Thallium	ND		0.0200	95	0.0198	J	0.0200	99	0.0194	J	0.0200	97
Vanadium	ND		0.00500	96	0.00445	J	0.00500	89	0.00483	J	0.00500	97

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

ICV Source: MEI_MSS_ICV_00110 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00242

Analyte	ICV 480-630098/5 06/14/2022 11:56				CCV 480-630098/18 06/14/2022 16:42				CCV 480-630098/26 06/14/2022 17:28			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	37.82		37.5	101	50.80		50.0	102	50.29		50.0	101
Aluminum	36.77		37.5	98	50.14		50.0	100	49.08		50.0	98
Antimony	0.697		0.750	93	0.996		1.00	100	0.996		1.00	100
Arsenic	0.742		0.750	99	0.992		1.00	99	0.995		1.00	99
Barium	0.742		0.750	99	0.996		1.00	100	0.966		1.00	97
Beryllium	0.752		0.750	100	1.01		1.00	101	0.988		1.00	99
Boron	0.777		0.750	104	1.02		1.00	102	1.03		1.00	103
Cadmium	0.745		0.750	99	1.00		1.00	100	1.00		1.00	100
Calcium	37.28		37.5	99	50.07		50.0	100	49.15		50.0	98
Chromium	0.758		0.750	101	1.02		1.00	102	1.01		1.00	101
Cobalt	0.738		0.750	98	0.993		1.00	99	0.992		1.00	99
Copper	0.741		0.750	99	1.01		1.00	101	1.02		1.00	102
Lead	0.743		0.750	99	1.00		1.00	100	1.00		1.00	100
Magnesium	37.42		37.5	100	49.93		50.0	100	50.23		50.0	100
Manganese	0.762		0.750	102	1.01		1.00	101	1.02		1.00	102
Nickel	0.742		0.750	99	0.998		1.00	100	1.01		1.00	101
Potassium	36.82		37.5	98	49.96		50.0	100	49.10		50.0	98
Selenium	0.760		0.750	101	0.996		1.00	100	1.01		1.00	101
Silver	0.750		0.750	100	1.00		1.00	100	1.01		1.00	101
Sodium	36.72		37.5	98	49.83		50.0	100	48.47		50.0	97
Thallium	0.762		0.750	102	1.01		1.00	101	1.02		1.00	102
Vanadium	0.745		0.750	99	1.01		1.00	101	1.02		1.00	102
Zinc	0.758		0.750	101	1.02		1.00	102	1.02		1.00	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

ICV Source: MEI_10_CCVL_00449 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00449

Analyte	ICVL 480-630098/7 06/14/2022 12:04				CCVL 480-630098/20 06/14/2022 16:49				CCVL 480-630098/28 06/14/2022 17:35			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	ND		0.0500	99	0.0514		0.0500	103	0.0510		0.0500	102
Aluminum	0.218		0.200	109	0.223		0.200	111	0.213		0.200	107
Antimony	0.0238		0.0200	119	0.0196	J	0.0200	98	0.0185	J	0.0200	93
Arsenic	0.0163		0.0150	109	0.0146	J	0.0150	97	0.0163		0.0150	109
Barium	0.00210		0.00200	105	0.00211		0.00200	106	0.00213		0.00200	107
Beryllium	0.00206		0.00200	103	0.00197	J	0.00200	99	0.00209		0.00200	105
Boron	ND		0.0200	98	0.0192	J	0.0200	96	0.0196	J	0.0200	98
Cadmium	ND		0.00200	97	0.00203		0.00200	102	0.00208		0.00200	104
Calcium	0.502		0.500	100	0.498	J	0.500	100	0.503		0.500	101
Chromium	ND		0.00400	92	0.00375	J	0.00400	94	0.00315	J	0.00400	79
Cobalt	ND		0.00400	99	0.00390	J	0.00400	98	0.00394	J	0.00400	99
Copper	ND		0.0100	99	0.0109		0.0100	109	0.0104		0.0100	104
Lead	ND		0.0100	95	0.0109		0.0100	109	0.00985	J	0.0100	99
Magnesium	ND		0.200	96	0.194	J	0.200	97	0.195	J	0.200	98
Manganese	0.00314		0.00300	105	0.00347		0.00300	116	0.00339		0.00300	113
Nickel	ND		0.0100	97	0.00962	J	0.0100	96	0.00953	J	0.0100	95
Potassium	ND		0.500	89	0.482	J	0.500	96	0.450	J	0.500	90
Selenium	0.0253		0.0250	101	0.0238	J	0.0250	95	0.0227	J	0.0250	91
Silver	0.00606		0.00600	101	0.00609		0.00600	102	0.00555	J	0.00600	93
Sodium	ND		1.01	96	0.964	J	1.01	96	0.967	J	1.01	96
Thallium	0.0202		0.0200	101	0.0213		0.0200	107	0.0215		0.0200	108
Vanadium	ND		0.00500	94	0.00445	J	0.00500	89	0.00500		0.00500	100
Zinc	ND		0.0100	86	0.00881	J	0.0100	88	0.00942	J	0.0100	94

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

ICV Source: MEI_MSS_ICV_00109 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00240

Analyte	ICV 480-629955/5 06/13/2022 14:49				CCV 480-629955/18 06/13/2022 18:05				CCV 480-629955/24 06/13/2022 18:51			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	35.77		37.5	95	47.98		50.0	96	47.51		50.0	95
Antimony	0.755		0.750	101	0.970		1.00	97	0.968		1.00	97
Arsenic	0.742		0.750	99	0.977		1.00	98	0.979		1.00	98
Barium	0.737		0.750	98	0.970		1.00	97	0.962		1.00	96
Beryllium	0.744		0.750	99	0.973		1.00	97	0.962		1.00	96
Boron	0.766		0.750	102	0.998		1.00	100	0.992		1.00	99
Cadmium	0.733		0.750	98	0.974		1.00	97	0.972		1.00	97
Calcium	35.97		37.5	96	48.02		50.0	96	47.48		50.0	95
Chromium	0.753		0.750	100	1.00		1.00	100	0.998		1.00	100
Cobalt	0.728		0.750	97	0.962		1.00	96	0.965		1.00	96
Copper	0.729		0.750	97	0.967		1.00	97	0.959		1.00	96
Iron	36.56		37.5	97	48.44		50.0	97	48.30		50.0	97
Lead	0.730		0.750	97	0.966		1.00	97	0.970		1.00	97
Magnesium	36.05		37.5	96	49.47		50.0	99	49.74		50.0	99
Manganese	0.752		0.750	100	0.988		1.00	99	0.976		1.00	98
Nickel	0.735		0.750	98	0.972		1.00	97	0.974		1.00	97
Potassium	34.83		37.5	93	47.94		50.0	96	47.00		50.0	94
Selenium	0.757		0.750	101	0.982		1.00	98	0.978		1.00	98
Silver	0.737		0.750	98	0.959		1.00	96	0.967		1.00	97
Sodium	35.14		37.5	94	47.88		50.0	96	47.22		50.0	94
Thallium	0.751		0.750	100	0.993		1.00	99	0.988		1.00	99
Vanadium	0.739		0.750	99	0.972		1.00	97	0.972		1.00	97
Zinc	0.738		0.750	98	1.00		1.00	100	1.00		1.00	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

ICV Source: MEI_MSS_ICV_00109 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00240

Analyte	CCV 480-629955/36 06/13/2022 19:38				CCV 480-629955/48 06/13/2022 20:25				CCV 480-629955/56 06/13/2022 21:11			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	47.85		50.0	96	47.34		50.0	95	47.48		50.0	95
Antimony	0.960		1.00	96	0.958		1.00	96	0.957		1.00	96
Arsenic	0.972		1.00	97	0.970		1.00	97	0.968		1.00	97
Barium	0.967		1.00	97	0.959		1.00	96	0.959		1.00	96
Beryllium	0.973		1.00	97	0.960		1.00	96	0.963		1.00	96
Boron	0.991		1.00	99	0.985		1.00	99	0.983		1.00	98
Cadmium	0.968		1.00	97	0.965		1.00	96	0.965		1.00	96
Calcium	48.02		50.0	96	47.41		50.0	95	47.57		50.0	95
Chromium	1.01		1.00	101	1.00		1.00	100	1.00		1.00	100
Cobalt	0.959		1.00	96	0.959		1.00	96	0.958		1.00	96
Copper	0.958		1.00	96	0.954		1.00	95	0.958		1.00	96
Iron	48.42		50.0	97	48.04		50.0	96	48.10		50.0	96
Lead	0.963		1.00	96	0.964		1.00	96	0.964		1.00	96
Magnesium	49.64		50.0	99	49.80		50.0	100	49.80		50.0	100
Manganese	0.987		1.00	99	0.982		1.00	98	0.983		1.00	98
Nickel	0.971		1.00	97	0.971		1.00	97	0.968		1.00	97
Potassium	47.76		50.0	96	46.92		50.0	94	47.18		50.0	94
Selenium	0.980		1.00	98	0.975		1.00	97	0.977		1.00	98
Silver	0.953		1.00	95	0.959		1.00	96	0.959		1.00	96
Sodium	47.77		50.0	96	47.16		50.0	94	47.30		50.0	95
Thallium	0.992		1.00	99	0.986		1.00	99	0.987		1.00	99
Vanadium	0.969		1.00	97	0.969		1.00	97	0.971		1.00	97
Zinc	1.01		1.00	101	1.01		1.00	101	1.01		1.00	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

ICV Source: MEI_10_CCVL_00449 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00449

Analyte	ICVL 480-629955/7 06/13/2022 14:56				CCVL 480-629955/20 06/13/2022 18:12				CCVL 480-629955/26 06/13/2022 18:59			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	ND		0.200	96	0.203		0.200	101	0.190	J	0.200	95
Antimony	ND		0.0200	90	0.0188	J	0.0200	94	0.0188	J	0.0200	94
Arsenic	ND		0.0150	77	0.0136	J	0.0150	90	0.0145	J	0.0150	97
Barium	0.00210		0.00200	105	0.00215		0.00200	108	0.00214		0.00200	107
Beryllium	0.00213		0.00200	107	0.00204		0.00200	102	0.00214		0.00200	107
Boron	ND		0.0200	99	0.0202		0.0200	101	0.0195	J	0.0200	98
Cadmium	0.00209		0.00200	105	0.00210		0.00200	105	0.00197	J	0.00200	99
Calcium	ND		0.500	99	0.493	J	0.500	99	0.487	J	0.500	97
Chromium	ND		0.00400	100	0.00413		0.00400	103	0.00362	J	0.00400	91
Cobalt	ND		0.00400	97	0.00393	J	0.00400	98	0.00389	J	0.00400	97
Copper	0.0122		0.0100	122	0.0119		0.0100	119	0.0128		0.0100	128
Iron	ND		0.0500	79	0.0385	J	0.0500	77	0.0407	J	0.0500	81
Lead	ND		0.0100	91	0.00989	J	0.0100	99	0.00951	J	0.0100	95
Magnesium	0.200		0.200	100	0.200		0.200	100	0.197	J	0.200	99
Manganese	0.00306		0.00300	102	0.00321		0.00300	107	0.00318		0.00300	106
Nickel	ND		0.0100	94	0.00980	J	0.0100	98	0.00966	J	0.0100	97
Potassium	ND		0.500	89	0.453	J	0.500	91	0.408	J	0.500	82
Selenium	0.0250		0.0250	100	0.0210	J	0.0250	84	0.0249	J	0.0250	100
Silver	ND		0.00600	90	0.00536	J	0.00600	89	0.00544	J	0.00600	91
Sodium	ND		1.01	89	0.913	J	1.01	91	0.921	J	1.01	91
Thallium	ND		0.0200	97	0.0212		0.0200	106	0.0198	J	0.0200	99
Vanadium	ND		0.00500	90	0.00495	J	0.00500	99	0.00513		0.00500	103
Zinc	ND		0.0100	86	0.00828	J	0.0100	83	0.00820	J	0.0100	82

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

ICV Source: MEI_10_CCVL_00449 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00449

Analyte	CCVL 480-629955/38 06/13/2022 19:45				CCVL 480-629955/50 06/13/2022 20:32				CCVL 480-629955/58 06/13/2022 21:19			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.189	J	0.200	94	0.179	J	0.200	90	0.198	J	0.200	99
Antimony	0.0183	J	0.0200	92	0.0171	J	0.0200	86	0.0170	J	0.0200	85
Arsenic	0.0138	J	0.0150	92	0.0135	J	0.0150	90	0.0149	J	0.0150	99
Barium	0.00220		0.00200	110	0.00220		0.00200	110	0.00205		0.00200	103
Beryllium	0.00206		0.00200	103	0.00209		0.00200	105	0.00198	J	0.00200	99
Boron	0.0197	J	0.0200	99	0.0190	J	0.0200	95	0.0183	J	0.0200	92
Cadmium	0.00198	J	0.00200	99	0.00211		0.00200	106	0.00191	J	0.00200	96
Calcium	0.499	J	0.500	100	0.492	J	0.500	98	0.471	J	0.500	94
Chromium	0.00423		0.00400	106	0.00390	J	0.00400	98	0.00377	J	0.00400	94
Cobalt	0.00396	J	0.00400	99	0.00375	J	0.00400	94	0.00365	J	0.00400	91
Copper	0.0118		0.0100	118	0.0128		0.0100	128	0.0127		0.0100	127
Iron	0.0388	J	0.0500	78	0.0381	J	0.0500	76				
Lead	0.00870	J	0.0100	87	0.00905	J	0.0100	91	0.00924	J	0.0100	92
Magnesium	0.207		0.200	103	0.203		0.200	102	0.189	J	0.200	94
Manganese	0.00332		0.00300	111	0.00331		0.00300	110	0.00302		0.00300	101
Nickel	0.00961	J	0.0100	96	0.00961	J	0.0100	96	0.00921	J	0.0100	92
Potassium	0.481	J	0.500	96	0.417	J	0.500	83	0.388	J	0.500	78
Selenium	0.0237	J	0.0250	95	0.0254		0.0250	102	0.0245	J	0.0250	98
Silver	0.00548	J	0.00600	91	0.00551	J	0.00600	92	0.00525	J	0.00600	88
Sodium	0.918	J	1.01	91	0.914	J	1.01	91	0.886	J	1.01	88
Thallium	0.0196	J	0.0200	98	0.0206		0.0200	103	0.0191	J	0.0200	96
Vanadium	0.00535		0.00500	107	0.00466	J	0.00500	93	0.00468	J	0.00500	94
Zinc	0.00879	J	0.0100	88	0.00835	J	0.0100	84	0.00740	J	0.0100	74

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

ICV Source: MEI_MSS_ICV_00110 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00242

Analyte	ICV 480-630310/5 06/15/2022 11:00				CCV 480-630310/18 06/15/2022 12:40				CCV 480-630310/30 06/15/2022 13:26			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	37.22		37.5	99	50.08		50.0	100	50.25		50.0	101
Antimony	0.771		0.750	103	1.01		1.00	101	1.01		1.00	101
Arsenic	0.758		0.750	101	1.01		1.00	101	1.01		1.00	101
Barium	0.748		0.750	100	1.00		1.00	100	1.00		1.00	100
Beryllium	0.761		0.750	101	1.00		1.00	100	1.00		1.00	100
Boron	0.790		0.750	105	1.03		1.00	103	1.04		1.00	104
Cadmium	0.754		0.750	101	1.00		1.00	100	1.02		1.00	102
Calcium	37.60		37.5	100	49.97		50.0	100	50.17		50.0	100
Chromium	0.772		0.750	103	1.01		1.00	101	1.02		1.00	102
Cobalt	0.744		0.750	99	0.987		1.00	99	1.00		1.00	100
Copper	0.749		0.750	100	1.00		1.00	100	1.01		1.00	101
Iron	38.09		37.5	102	50.80		50.0	102	50.68		50.0	101
Lead	0.750		0.750	100	0.989		1.00	99	1.00		1.00	100
Magnesium	38.04		37.5	101	50.54		50.0	101	50.64		50.0	101
Manganese	0.776		0.750	103	1.01		1.00	101	1.02		1.00	102
Nickel	0.752		0.750	100	0.992		1.00	99	1.00		1.00	100
Potassium	36.24		37.5	97	48.96		50.0	98	49.14		50.0	98
Selenium	0.783		0.750	104	1.02		1.00	102	1.03		1.00	103
Silver	0.766		0.750	102	1.02		1.00	102	1.01		1.00	101
Sodium	36.53		37.5	97	49.55		50.0	99	49.74		50.0	99
Thallium	0.767		0.750	102	1.00		1.00	100	1.01		1.00	101
Vanadium	0.760		0.750	101	1.01		1.00	101	1.02		1.00	102
Zinc	0.775		0.750	103	1.01		1.00	101	1.02		1.00	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

ICV Source: MEI_MSS_ICV_00110 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00242

Analyte	CCV 480-630310/36 06/15/2022 14:12											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	48.94		50.0	98								
Antimony	1.00		1.00	100								
Arsenic	1.01		1.00	101								
Barium	0.999		1.00	100								
Beryllium	0.993		1.00	99								
Boron	1.04		1.00	104								
Cadmium	1.00		1.00	100								
Calcium	48.62		50.0	97								
Chromium	1.02		1.00	102								
Cobalt	0.981		1.00	98								
Copper	1.00		1.00	100								
Iron	49.11		50.0	98								
Lead	0.980		1.00	98								
Magnesium	50.40		50.0	101								
Manganese	1.01		1.00	101								
Nickel	0.989		1.00	99								
Potassium	48.85		50.0	98								
Selenium	1.02		1.00	102								
Silver	1.00		1.00	100								
Sodium	49.26		50.0	99								
Thallium	1.01		1.00	101								
Vanadium	1.02		1.00	102								
Zinc	0.999		1.00	100								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

ICV Source: MEI_10_CCVL_00449 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00449

Analyte	ICVL 480-630310/7 06/15/2022 11:08				CCVL 480-630310/20 06/15/2022 12:48				CCVL 480-630310/32 06/15/2022 13:34			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	ND		0.200	83	0.175	J	0.200	87	0.190	J	0.200	95
Antimony	ND		0.0200	96	0.0176	J	0.0200	88	0.0197	J	0.0200	98
Arsenic	ND		0.0150	99	0.0144	J	0.0150	96	0.0133	J	0.0150	88
Barium	0.00221		0.00200	111	0.00210		0.00200	105	0.00212		0.00200	106
Beryllium	0.00210		0.00200	105	0.00190	J	0.00200	95	0.00203		0.00200	102
Boron	0.0208		0.0200	104	0.0196	J	0.0200	98	0.0198	J	0.0200	99
Cadmium	ND		0.00200	97	0.00196	J	0.00200	98	0.00191	J	0.00200	96
Calcium	ND		0.500	99	0.491	J	0.500	98	0.492	J	0.500	98
Chromium	0.00435		0.00400	109	0.00390	J	0.00400	98	0.00370	J	0.00400	93
Cobalt	ND		0.00400	92	0.00374	J	0.00400	94	0.00358	J	0.00400	90
Copper	0.0106		0.0100	106	0.00982	J	0.0100	98	0.0103		0.0100	103
Iron	0.0547		0.0500	109	0.0480	J	0.0500	96	0.0487	J	0.0500	97
Lead	ND		0.0100	91	0.00898	J	0.0100	90	0.00836	J	0.0100	84
Magnesium	0.200		0.200	100	0.197	J	0.200	98	0.190	J	0.200	95
Manganese	0.00334		0.00300	111	0.00325		0.00300	108	0.00318		0.00300	106
Nickel	ND		0.0100	97	0.00943	J	0.0100	94	0.00907	J	0.0100	91
Potassium	ND		0.500	75	0.448	J	0.500	90	0.504		0.500	101
Selenium	ND		0.0250	87	0.0262		0.0250	105	0.0239	J	0.0250	96
Silver	ND		0.00600	86	0.00524	J	0.00600	87	0.00539	J	0.00600	90
Sodium	ND		1.01	92	0.927	J	1.01	92	0.936	J	1.01	93
Thallium	ND		0.0200	98	0.0191	J	0.0200	96	0.0194	J	0.0200	97
Vanadium	0.00519		0.00500	104	0.00497	J	0.00500	99	0.00473	J	0.00500	95
Zinc	0.0104		0.0100	104	0.0106		0.0100	106	0.0102		0.0100	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

ICV Source: MEI_10_CCVL_00449 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00449

Analyte	CCVL 480-630310/38 06/15/2022 14:20											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.193	J	0.200	97								
Antimony	0.0204		0.0200	102								
Arsenic	0.0151		0.0150	101								
Barium	0.00212		0.00200	106								
Beryllium	0.00192	J	0.00200	96								
Boron	0.0201		0.0200	100								
Cadmium	0.00193	J	0.00200	97								
Calcium	0.490	J	0.500	98								
Chromium	0.00448		0.00400	112								
Cobalt	0.00364	J	0.00400	91								
Copper	0.0116		0.0100	116								
Iron	0.0460	J	0.0500	92								
Lead	0.00861	J	0.0100	86								
Magnesium	0.195	J	0.200	98								
Manganese	0.00321		0.00300	107								
Nickel	0.00943	J	0.0100	94								
Potassium	0.443	J	0.500	89								
Selenium	0.0224	J	0.0250	89								
Silver	0.00617		0.00600	103								
Sodium	0.927	J	1.01	92								
Thallium	0.0193	J	0.0200	96								
Vanadium	0.00489	J	0.00500	98								
Zinc	0.0107		0.0100	107								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

ICV Source: MEH_HG1_WKG_02858 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02858

Analyte	ICV 480-629668/7 06/10/2022 16:14				ICVL 480-629668/9 06/10/2022 16:17				CCV 480-629668/10 06/10/2022 16:18			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00301		0.00300	100	ND		0.000200	85	0.00186		0.00200	93

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

ICV Source: MEH_HG1_WKG_02858 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02858

Analyte	CCV 480-629668/22 06/10/2022 16:34				CCV 480-629668/34 06/10/2022 16:50				CCVL 480-629668/88 06/10/2022 18:00			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00183		0.00200	92	0.00182		0.00200	91	0.000150	J	0.000200	75

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

ICV Source: MEH_HG1_WKG_02859 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02859

Analyte	ICV 480-629882/7 06/13/2022 14:19				ICVL 480-629882/9 06/13/2022 14:22				CCV 480-629882/10 06/13/2022 14:23			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00305		0.00300	102	ND		0.000200	95	0.00209		0.00200	105

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

ICV Source: MEH_HG1_WKG_02859 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02859

Analyte	CCV 480-629882/22 06/13/2022 14:39				CCV 480-629882/34 06/13/2022 14:55				CCVL 480-629882/84 06/13/2022 16:00			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00209		0.00200	105	0.00208		0.00200	104	0.000180	J	0.000200	90

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

ICV Source: MEH_HG1_WKG_02860 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02860

Analyte	ICV 480-630021/8 06/14/2022 13:43				ICVL 480-630021/10 06/14/2022 13:45				CCV 480-630021/11 06/14/2022 13:47			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00312		0.00300	104	0.000230		0.000200	115	0.00218		0.00200	109

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

ICV Source: MEH_HG1_WKG_02860 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02860

Analyte	CCV 480-630021/23 06/14/2022 14:04				CCV 480-630021/35 06/14/2022 14:20				CCVL 480-630021/97 06/14/2022 15:41			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00214		0.00200	107	0.00214		0.00200	107	0.000220		0.000200	110

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Concentration Units: mg/L

Analyte	RL	ICB 480-629561/6 06/09/2022 12:27		CCB 480-629561/19 06/10/2022 00:40		CCB 480-629561/23 06/10/2022 01:26		CCB 480-629561/35 06/10/2022 02:11	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND		ND		ND		ND	
Antimony	0.020	ND		ND		ND		ND	
Arsenic	0.015	ND		ND		ND		ND	
Barium	0.0020	ND		ND		ND		ND	
Beryllium	0.0020	ND		ND		ND		ND	
Boron	0.020	ND		ND		ND		ND	
Cadmium	0.0020	ND		ND		ND		ND	
Calcium	0.50	ND		ND		ND		ND	
Chromium	0.0040	ND		ND		ND		ND	
Cobalt	0.0040	ND		ND		ND		ND	
Copper	0.010	ND		ND		ND		ND	
Iron	0.050	ND		ND		ND		ND	
Lead	0.010	ND		ND		ND		ND	
Magnesium	0.20	ND		ND		ND		ND	
Manganese	0.0030	ND		ND		ND		ND	
Nickel	0.010	ND		ND		ND		ND	
Potassium	0.50	ND		ND		ND		ND	
Selenium	0.025	ND		ND		ND		ND	
Silver	0.0060	ND		ND		ND		ND	
Sodium	1.0	ND		ND		ND		ND	
Thallium	0.020	ND		ND		ND		ND	
Vanadium	0.0050	ND		ND		ND		ND	
Zinc	0.010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Concentration Units: mg/L

Analyte	RL	CCB 480-629561/47 06/10/2022 02:57							
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND							
Antimony	0.020	ND							
Arsenic	0.015	ND							
Barium	0.0020	ND							
Beryllium	0.0020	ND							
Boron	0.020	ND							
Cadmium	0.0020	ND							
Calcium	0.50	ND							
Chromium	0.0040	ND							
Cobalt	0.0040	ND							
Copper	0.010	ND							
Iron	0.050	ND							
Lead	0.010	ND							
Magnesium	0.20	ND							
Manganese	0.0030	ND							
Nickel	0.010	ND							
Potassium	0.50	ND							
Selenium	0.025	ND							
Silver	0.0060	ND							
Sodium	1.0	ND							
Thallium	0.020	ND							
Vanadium	0.0050	ND							
Zinc	0.010	ND							

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Concentration Units: mg/L

Analyte	RL	ICB 480-629768/6 06/10/2022 12:25		CCB 480-629768/24 06/10/2022 14:51		CCB 480-629768/31 06/10/2022 15:41			
		Found	C	Found	C	Found	C	Found	C
Zinc	0.010	ND		ND		ND			
Aluminum	0.20	ND		ND		ND			
Antimony	0.020	ND		ND		ND			
Arsenic	0.015	ND		ND		ND			
Barium	0.0020	ND		ND		ND			
Beryllium	0.0020	ND		ND		ND			
Boron	0.020	ND		ND		ND			
Cadmium	0.0020	ND		ND		ND			
Calcium	0.50	ND		ND		ND			
Chromium	0.0040	ND		ND		ND			
Cobalt	0.0040	ND		ND		ND			
Copper	0.010	ND		ND		ND			
Iron	0.050	ND		ND		ND			
Lead	0.010	ND		ND		ND			
Magnesium	0.20	ND		ND		ND			
Manganese	0.0030	ND		ND		ND			
Nickel	0.010	ND		ND		ND			
Potassium	0.50	ND		ND		ND			
Selenium	0.025	ND		ND		ND			
Silver	0.0060	ND		ND		ND			
Sodium	1.0	ND		ND		ND			
Thallium	0.020	ND		ND		ND			
Vanadium	0.0050	ND		ND		ND			

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Concentration Units: mg/L

Analyte	RL	ICB 480-630098/6 06/14/2022 12:00		CCB 480-630098/19 06/14/2022 16:45		CCB 480-630098/27 06/14/2022 17:31			
		Found	C	Found	C	Found	C	Found	C
Iron	0.050	ND		ND		ND			
Aluminum	0.20	ND		ND		ND			
Antimony	0.020	0.0102	J	ND		ND			
Arsenic	0.015	ND		ND		ND			
Barium	0.0020	ND		ND		ND			
Beryllium	0.0020	ND		ND		ND			
Boron	0.020	ND		ND		ND			
Cadmium	0.0020	ND		ND		ND			
Calcium	0.50	ND		ND		ND			
Chromium	0.0040	ND		ND		ND			
Cobalt	0.0040	ND		ND		ND			
Copper	0.010	ND		ND		ND			
Lead	0.010	ND		ND		ND			
Magnesium	0.20	ND		ND		ND			
Manganese	0.0030	ND		ND		ND			
Nickel	0.010	ND		ND		ND			
Potassium	0.50	ND		ND		ND			
Selenium	0.025	ND		ND		ND			
Silver	0.0060	ND		ND		ND			
Sodium	1.0	ND		ND		ND			
Thallium	0.020	ND		ND		ND			
Vanadium	0.0050	ND		ND		ND			
Zinc	0.010	ND		ND		ND			

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Concentration Units: mg/L

Analyte	RL	ICB 480-629955/6 06/13/2022 14:53		CCB 480-629955/19 06/13/2022 18:08		CCB 480-629955/25 06/13/2022 18:55		CCB 480-629955/37 06/13/2022 19:41	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND		ND		ND		ND	
Antimony	0.020	ND		ND		ND		ND	
Arsenic	0.015	ND		ND		ND		ND	
Barium	0.0020	ND		ND		ND		ND	
Beryllium	0.0020	ND		ND		ND		ND	
Boron	0.020	ND		ND		ND		ND	
Cadmium	0.0020	ND		ND		ND		ND	
Calcium	0.50	ND		ND		ND		ND	
Chromium	0.0040	ND		ND		ND		ND	
Cobalt	0.0040	ND		ND		ND		ND	
Copper	0.010	0.00228	J	0.00228	J	0.00281	J	0.00232	J
Iron	0.050	ND		ND		ND		ND	
Lead	0.010	ND		ND		ND		ND	
Magnesium	0.20	ND		ND		ND		ND	
Manganese	0.0030	ND		ND		ND		ND	
Nickel	0.010	ND		ND		ND		ND	
Potassium	0.50	ND		ND		ND		ND	
Selenium	0.025	ND		ND		ND		ND	
Silver	0.0060	ND		ND		ND		ND	
Sodium	1.0	ND		ND		ND		ND	
Thallium	0.020	ND		ND		ND		ND	
Vanadium	0.0050	ND		ND		ND		ND	
Zinc	0.010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Concentration Units: mg/L

Analyte	RL	CCB 480-629955/49 06/13/2022 20:28		CCB 480-629955/57 06/13/2022 21:15					
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND		ND					
Antimony	0.020	ND		ND					
Arsenic	0.015	ND		ND					
Barium	0.0020	ND		ND					
Beryllium	0.0020	ND		ND					
Boron	0.020	ND		ND					
Cadmium	0.0020	ND		ND					
Calcium	0.50	ND		ND					
Chromium	0.0040	ND		ND					
Cobalt	0.0040	ND		ND					
Copper	0.010	0.00223	J	0.00250	J				
Iron	0.050	ND		ND					
Lead	0.010	ND		ND					
Magnesium	0.20	ND		ND					
Manganese	0.0030	ND		ND					
Nickel	0.010	ND		ND					
Potassium	0.50	ND		ND					
Selenium	0.025	ND		ND					
Silver	0.0060	ND		ND					
Sodium	1.0	ND		ND					
Thallium	0.020	ND		ND					
Vanadium	0.0050	ND		ND					
Zinc	0.010	ND		ND					

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Concentration Units: mg/L

Analyte	RL	ICB 480-630310/6 06/15/2022 11:04		CCB 480-630310/19 06/15/2022 12:44		CCB 480-630310/31 06/15/2022 13:30		CCB 480-630310/37 06/15/2022 14:16	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND		ND		ND		ND	
Antimony	0.020	ND		ND		ND		ND	
Arsenic	0.015	ND		ND		ND		ND	
Barium	0.0020	ND		0.00264		ND		ND	
Beryllium	0.0020	ND		ND		ND		ND	
Boron	0.020	ND		ND		ND		ND	
Cadmium	0.0020	ND		ND		ND		ND	
Calcium	0.50	ND		ND		ND		ND	
Chromium	0.0040	ND		0.00267	J	ND		ND	
Cobalt	0.0040	ND		ND		ND		ND	
Copper	0.010	ND		ND		ND		ND	
Iron	0.050	ND		ND		ND		ND	
Lead	0.010	ND		ND		ND		ND	
Magnesium	0.20	ND		0.137	J	ND		ND	
Manganese	0.0030	ND		0.00230	J	ND		ND	
Nickel	0.010	ND		ND		ND		ND	
Potassium	0.50	ND		ND		ND		ND	
Selenium	0.025	ND		ND		ND		ND	
Silver	0.0060	ND		0.00182	J	ND		ND	
Sodium	1.0	ND		ND		ND		ND	
Thallium	0.020	ND		ND		ND		ND	
Vanadium	0.0050	ND		0.00229	J	ND		ND	
Zinc	0.010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Concentration Units: mg/L

Analyte	RL	ICB 480-629668/8 06/10/2022 16:16		CCB 480-629668/11 06/10/2022 16:20		CCB 480-629668/23 06/10/2022 16:35		CCB 480-629668/35 06/10/2022 16:51	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Concentration Units: mg/L

Analyte	RL	ICB 480-629882/8 06/13/2022 14:21		CCB 480-629882/11 06/13/2022 14:25		CCB 480-629882/23 06/13/2022 14:40		CCB 480-629882/35 06/13/2022 14:56	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Concentration Units: mg/L

Analyte	RL	ICB 480-630021/9 06/14/2022 13:44		CCB 480-630021/12 06/14/2022 13:48		CCB 480-630021/24 06/14/2022 14:06		CCB 480-630021/36 06/14/2022 14:21	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Concentration Units: mg/L Lab Sample ID: MB 480-629262/1-A

Instrument Code: ICAP1 Batch No.: 629561

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	ND			6010C
7440-36-0	Antimony	ND			6010C
7440-38-2	Arsenic	ND			6010C
7440-39-3	Barium	ND			6010C
7440-41-7	Beryllium	ND			6010C
7440-42-8	Boron	ND			6010C
7440-43-9	Cadmium	ND			6010C
7440-70-2	Calcium	ND			6010C
7440-47-3	Chromium	ND			6010C
7440-48-4	Cobalt	ND			6010C
7440-50-8	Copper	ND			6010C
7439-89-6	Iron	ND			6010C
7439-92-1	Lead	ND			6010C
7439-95-4	Magnesium	ND			6010C
7439-96-5	Manganese	ND			6010C
7440-02-0	Nickel	ND			6010C
7440-09-7	Potassium	ND			6010C
7782-49-2	Selenium	ND			6010C
7440-22-4	Silver	ND			6010C
7440-23-5	Sodium	ND			6010C
7440-28-0	Thallium	ND			6010C
7440-62-2	Vanadium	ND			6010C
7440-66-6	Zinc	ND			6010C

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Concentration Units: mg/L Lab Sample ID: MB 480-629664/1-A

Instrument Code: ICAP2 Batch No.: 629955

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	ND			6010C
7440-36-0	Antimony	ND			6010C
7440-38-2	Arsenic	ND			6010C
7440-39-3	Barium	ND			6010C
7440-41-7	Beryllium	ND			6010C
7440-42-8	Boron	ND			6010C
7440-43-9	Cadmium	ND			6010C
7440-70-2	Calcium	ND			6010C
7440-47-3	Chromium	ND			6010C
7440-48-4	Cobalt	ND			6010C
7440-50-8	Copper	ND			6010C
7439-89-6	Iron	ND			6010C
7439-92-1	Lead	ND			6010C
7439-95-4	Magnesium	ND			6010C
7439-96-5	Manganese	ND			6010C
7440-02-0	Nickel	ND			6010C
7440-09-7	Potassium	ND			6010C
7782-49-2	Selenium	ND			6010C
7440-22-4	Silver	ND			6010C
7440-23-5	Sodium	ND			6010C
7440-28-0	Thallium	ND			6010C
7440-62-2	Vanadium	ND			6010C
7440-66-6	Zinc	ND			6010C

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Concentration Units: mg/L Lab Sample ID: MB 480-629787/1-B

Instrument Code: ICAP2 Batch No.: 630310

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	ND			6010C
7440-36-0	Antimony	ND			6010C
7440-38-2	Arsenic	ND			6010C
7440-39-3	Barium	ND			6010C
7440-41-7	Beryllium	ND			6010C
7440-42-8	Boron	ND			6010C
7440-43-9	Cadmium	ND			6010C
7440-70-2	Calcium	ND			6010C
7440-47-3	Chromium	ND			6010C
7440-48-4	Cobalt	ND			6010C
7440-50-8	Copper	ND			6010C
7439-89-6	Iron	ND			6010C
7439-92-1	Lead	ND			6010C
7439-95-4	Magnesium	ND			6010C
7439-96-5	Manganese	ND			6010C
7440-02-0	Nickel	ND			6010C
7440-09-7	Potassium	ND			6010C
7782-49-2	Selenium	ND			6010C
7440-22-4	Silver	ND			6010C
7440-23-5	Sodium	ND			6010C
7440-28-0	Thallium	ND			6010C
7440-62-2	Vanadium	ND			6010C
7440-66-6	Zinc	ND			6010C

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Concentration Units: mg/L Lab Sample ID: MB 480-629607/1-A

Instrument Code: LEEMAN5 Batch No.: 629668

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Concentration Units: mg/L Lab Sample ID: MB 480-629751/1-A

Instrument Code: LEEMAN5 Batch No.: 629882

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Concentration Units: mg/L Lab Sample ID: MB 480-629787/1-C

Instrument Code: LEEMAN5 Batch No.: 630021

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: ICSA 480-629561/8 Instrument ID: ICAP1

Lab File ID: I1060922B-11.asc ICS Source: MEI_MSS_ICSA_00041

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500**	**495**	**99**
Antimony		**-0.0059**	
Arsenic		**-0.0047**	
Barium	**0.0120**	**0.0078**	
Beryllium		**0.0000**	
Boron		**-0.0002**	
Cadmium		**-0.0003**	
Calcium	**500**	**469**	**94**
Chromium		**0.0012**	
Cobalt		**-0.0008**	
Copper		**-0.0053**	
Iron	**200**	**189**	**94**
Lead		**-0.0025**	
Magnesium	**500**	**510**	**102**
Manganese		**-0.0006**	
Nickel		**0.0008**	
Potassium		**0.175**	
Selenium		**-0.0059**	
Silver		**-0.0016**	
Sodium		**0.107**	
Thallium		**0.0019**	
Vanadium		**0.0010**	
Zinc		**-0.0008**	
Lithium		*0.0084*	
Molybdenum		*-0.0016*	
Silicon		*-0.0456*	
Sulfur		*0.225*	
Tin		*-0.0041*	
Titanium		*0.0019*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: ICSAB 480-629561/9 Instrument ID: ICAP1

Lab File ID: I1060922B-11.asc ICS Source: MEI_MSS_ICSAB_00036

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**500**	**489**	**98**
Antimony	**0.500**	**0.480**	**96**
Arsenic	**0.500**	**0.502**	**100**
Barium	**0.513**	**0.514**	**100**
Beryllium	**0.250**	**0.245**	**98**
Boron	**5.00**	**4.70**	**94**
Cadmium	**0.500**	**0.511**	**102**
Calcium	**500**	**465**	**93**
Chromium	**0.500**	**0.487**	**97**
Cobalt	**0.500**	**0.496**	**99**
Copper	**0.500**	**0.524**	**105**
Iron	**200**	**187**	**94**
Lead	**0.500**	**0.488**	**98**
Magnesium	**500**	**503**	**101**
Manganese	**0.501**	**0.496**	**99**
Nickel	**0.501**	**0.488**	**97**
Potassium	**5.00**	**5.26**	**105**
Selenium	**0.500**	**0.496**	**99**
Silver	**0.500**	**0.525**	**105**
Sodium	**5.00**	**5.21**	**104**
Thallium	**0.500**	**0.490**	**98**
Vanadium	**0.500**	**0.493**	**99**
Zinc	**0.501**	**0.453**	**90**
Lithium		*0.0079*	
Molybdenum	*0.500*	*0.485*	*97*
Silicon	*5.00*	*4.83*	*97*
Strontium	*0.500*	*0.501*	*100*
Sulfur		*0.223*	
Tin	*0.500*	*0.486*	*97*
Titanium	*0.500*	*0.499*	*100*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: ICSA 480-629768/8 Instrument ID: ICAP1

Lab File ID: I1061022B-4.asc ICS Source: MEI_MSS_ICSA_00041

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Zinc		**-0.0015**	
Aluminum	*500*	*483*	*97*
Antimony		*-0.0047*	
Arsenic		*-0.0004*	
Barium	*0.0120*	*0.0077*	
Beryllium		*0.0000*	
Boron		*0.0009*	
Cadmium		*-0.0002*	
Calcium	*500*	*457*	*91*
Chromium		*0.0015*	
Cobalt		*-0.0007*	
Copper		*-0.0062*	
Iron	*200*	*183*	*91*
Lead		*-0.0047*	
Lithium		*0.0063*	
Magnesium	*500*	*488*	*98*
Manganese		*-0.0008*	
Molybdenum		*-0.0021*	
Nickel		*0.0005*	
Potassium		*0.348*	
Selenium		*0.0015*	
Silicon		*-0.0355*	
Silver		*0.0004*	
Sodium		*0.111*	
Sulfur		*0.206*	
Thallium		*0.0038*	
Tin		*-0.0028*	
Titanium		*0.0020*	
Vanadium		*0.0011*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: ICSAB 480-629768/9 Instrument ID: ICAP1

Lab File ID: I1061022B-4.asc ICS Source: MEI_MSS_ICSAB_00036

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Zinc	**0.501**	**0.456**	**91**
Aluminum	*500*	*491*	*98*
Antimony	*0.500*	*0.477*	*95*
Arsenic	*0.500*	*0.504*	*101*
Barium	*0.513*	*0.526*	*103*
Beryllium	*0.250*	*0.248*	*99*
Boron	*5.00*	*4.77*	*95*
Cadmium	*0.500*	*0.515*	*103*
Calcium	*500*	*465*	*93*
Chromium	*0.500*	*0.487*	*97*
Cobalt	*0.500*	*0.503*	*101*
Copper	*0.500*	*0.520*	*104*
Iron	*200*	*189*	*94*
Lead	*0.500*	*0.492*	*98*
Lithium		*0.0075*	
Magnesium	*500*	*499*	*100*
Manganese	*0.501*	*0.495*	*99*
Molybdenum	*0.500*	*0.487*	*97*
Nickel	*0.501*	*0.489*	*98*
Potassium	*5.00*	*5.28*	*106*
Selenium	*0.500*	*0.496*	*99*
Silicon	*5.00*	*4.88*	*98*
Silver	*0.500*	*0.521*	*104*
Sodium	*5.00*	*5.27*	*105*
Strontium	*0.500*	*0.504*	*101*
Sulfur		*0.210*	
Thallium	*0.500*	*0.498*	*100*
Tin	*0.500*	*0.493*	*99*
Titanium	*0.500*	*0.499*	*100*
Vanadium	*0.500*	*0.492*	*98*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: ICSA 480-630098/8 Instrument ID: ICAP1

Lab File ID: I1061422A-4.asc ICS Source: MEI_MSS_ICSA_00041

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Iron	**200**	**182**	**91**
Aluminum	*500*	*484*	*97*
Antimony		*0.0069*	
Arsenic		*0.0027*	
Barium	*0.0120*	*0.0076*	
Beryllium		*0.0000*	
Boron		*0.0010*	
Cadmium		*-0.0002*	
Calcium	*500*	*451*	*90*
Chromium		*0.0006*	
Cobalt		*-0.0006*	
Copper		*-0.0063*	
Lead		*-0.0047*	
Lithium		*0.0057*	
Magnesium	*500*	*486*	*97*
Manganese		*-0.0009*	
Molybdenum		*-0.0025*	
Nickel		*-0.0001*	
Potassium		*0.225*	
Selenium		*-0.0038*	
Silicon		*-0.0397*	
Silver		*0.0003*	
Sodium		*0.0846*	
Sulfur		*0.207*	
Thallium		*0.0014*	
Tin		*-0.0029*	
Titanium		*0.0019*	
Vanadium		*0.0005*	
Zinc		*-0.0008*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: ICSAB 480-630098/9 Instrument ID: ICAP1

Lab File ID: I1061422A-4.asc ICS Source: MEI_MSS_ICSAB_00036

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Iron	**200**	**189**	**94**
Aluminum	*500*	*500*	*100*
Antimony	*0.500*	*0.496*	*99*
Arsenic	*0.500*	*0.507*	*101*
Barium	*0.513*	*0.525*	*102*
Beryllium	*0.250*	*0.253*	*101*
Boron	*5.00*	*4.78*	*96*
Cadmium	*0.500*	*0.516*	*103*
Calcium	*500*	*471*	*94*
Chromium	*0.500*	*0.500*	*100*
Cobalt	*0.500*	*0.499*	*100*
Copper	*0.500*	*0.530*	*106*
Lead	*0.500*	*0.485*	*97*
Lithium		*0.0065*	
Magnesium	*500*	*499*	*100*
Manganese	*0.501*	*0.497*	*99*
Molybdenum	*0.500*	*0.489*	*98*
Nickel	*0.501*	*0.484*	*97*
Potassium	*5.00*	*5.37*	*107*
Selenium	*0.500*	*0.496*	*99*
Silicon	*5.00*	*4.86*	*97*
Silver	*0.500*	*0.528*	*106*
Sodium	*5.00*	*5.34*	*107*
Strontium	*0.500*	*0.509*	*102*
Sulfur		*0.201*	
Thallium	*0.500*	*0.492*	*98*
Tin	*0.500*	*0.485*	*97*
Titanium	*0.500*	*0.509*	*102*
Vanadium	*0.500*	*0.497*	*99*
Zinc	*0.501*	*0.456*	*91*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: ICSA 480-629955/8 Instrument ID: ICAP2

Lab File ID: I2061322A-2.asc ICS Source: MEI_MSS_ICSA_00041

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500**	**489**	**98**
Antimony		**0.0018**	
Arsenic		**-0.0012**	
Barium	**0.0120**	**0.0077**	
Beryllium		**-0.0001**	
Boron		**-0.0014**	
Cadmium		**0.0000**	
Calcium	**500**	**462**	**92**
Chromium		**0.0013**	
Cobalt		**0.0000**	
Copper		**0.0035**	
Iron	**200**	**184**	**92**
Lead		**0.0010**	
Magnesium	**500**	**507**	**101**
Manganese		**-0.0006**	
Nickel		**0.0010**	
Potassium		**-0.0326**	
Selenium		**-0.0015**	
Silver		**-0.0004**	
Sodium		**0.0295**	
Thallium		**-0.0034**	
Vanadium		**0.0008**	
Zinc		**-0.0019**	
Lithium		*-0.0065*	
Molybdenum		*-0.0017*	
Silicon		*-0.0273*	
Sulfur		*-0.0624*	
Tin		*-0.0023*	
Titanium		*0.0022*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: ICSAB 480-629955/9 Instrument ID: ICAP2

Lab File ID: I2061322A-2.asc ICS Source: MEI_MSS_ICSAB_00036

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**500**	**477**	**95**
Antimony	**0.500**	**0.466**	**93**
Arsenic	**0.500**	**0.485**	**97**
Barium	**0.513**	**0.499**	**97**
Beryllium	**0.250**	**0.240**	**96**
Boron	**5.00**	**4.60**	**92**
Cadmium	**0.500**	**0.490**	**98**
Calcium	**500**	**451**	**90**
Chromium	**0.500**	**0.476**	**95**
Cobalt	**0.500**	**0.479**	**96**
Copper	**0.500**	**0.506**	**101**
Iron	**200**	**178**	**89**
Lead	**0.500**	**0.474**	**95**
Magnesium	**500**	**491**	**98**
Manganese	**0.501**	**0.474**	**95**
Nickel	**0.501**	**0.466**	**93**
Potassium	**5.00**	**4.95**	**99**
Selenium	**0.500**	**0.475**	**95**
Silver	**0.500**	**0.507**	**101**
Sodium	**5.00**	**4.91**	**98**
Thallium	**0.500**	**0.469**	**94**
Vanadium	**0.500**	**0.474**	**95**
Zinc	**0.501**	**0.433**	**87**
Lithium		*-0.0074*	
Molybdenum	*0.500*	*0.471*	*94*
Silicon	*5.00*	*4.69*	*94*
Strontium	*0.500*	*0.479*	*96*
Sulfur		*-0.0542*	
Tin	*0.500*	*0.467*	*93*
Titanium	*0.500*	*0.481*	*96*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: ICSA 480-630310/8 Instrument ID: ICAP2

Lab File ID: I2061522A-1.asc ICS Source: MEI_MSS_ICSA_00041

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500**	**491**	**98**
Antimony		**0.0006**	
Arsenic		**-0.0029**	
Barium	**0.0120**	**0.0078**	
Beryllium		**-0.0001**	
Boron		**-0.0017**	
Cadmium		**0.0000**	
Calcium	**500**	**459**	**92**
Chromium		**0.0007**	
Cobalt		**-0.0002**	
Copper		**0.0012**	
Iron	**200**	**183**	**92**
Lead		**-0.0010**	
Magnesium	**500**	**510**	**102**
Manganese		**-0.0001**	
Nickel		**0.0009**	
Potassium		**0.0800**	
Selenium		**0.0007**	
Silver		**-0.0005**	
Sodium		**0.0599**	
Thallium		**-0.0052**	
Vanadium		**-0.0027**	
Zinc		**0.0012**	
Lithium		*-0.0051*	
Molybdenum		*-0.0018*	
Silicon		*-0.0208*	
Sulfur		*-0.0665*	
Tin		*-0.0009*	
Titanium		*0.0019*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Lab Sample ID: ICSAB 480-630310/9 Instrument ID: ICAP2

Lab File ID: I2061522A-1.asc ICS Source: MEI_MSS_ICSAB_00036

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**500**	**485**	**97**
Antimony	**0.500**	**0.476**	**95**
Arsenic	**0.500**	**0.490**	**98**
Barium	**0.513**	**0.512**	**100**
Beryllium	**0.250**	**0.241**	**96**
Boron	**5.00**	**4.63**	**93**
Cadmium	**0.500**	**0.497**	**99**
Calcium	**500**	**453**	**91**
Chromium	**0.500**	**0.479**	**96**
Cobalt	**0.500**	**0.489**	**98**
Copper	**0.500**	**0.517**	**103**
Iron	**200**	**182**	**91**
Lead	**0.500**	**0.481**	**96**
Magnesium	**500**	**498**	**100**
Manganese	**0.501**	**0.477**	**95**
Nickel	**0.501**	**0.473**	**95**
Potassium	**5.00**	**4.97**	**99**
Selenium	**0.500**	**0.485**	**97**
Silver	**0.500**	**0.521**	**104**
Sodium	**5.00**	**4.99**	**100**
Thallium	**0.500**	**0.473**	**95**
Vanadium	**0.500**	**0.480**	**96**
Zinc	**0.501**	**0.446**	**89**
Lithium		*-0.0036*	
Molybdenum	*0.500*	*0.471*	*94*
Silicon	*5.00*	*4.78*	*96*
Strontium	*0.500*	*0.489*	*98*
Sulfur		*-0.0597*	
Tin	*0.500*	*0.478*	*96*
Titanium	*0.500*	*0.493*	*99*

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: CD-1RA MS | Lab ID: 480-198720-2 MS

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water | Concentration Units: mg/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	9.54		ND		10.0	95	75-125		6010C
Antimony	0.216		ND		0.200	108	75-125		6010C
Arsenic	0.213		ND		0.200	106	75-125		6010C
Barium	0.355		0.15		0.200	102	75-125		6010C
Beryllium	0.212		ND		0.200	106	75-125		6010C
Boron	0.203		ND		0.200	97	75-125		6010C
Cadmium	0.205		ND		0.200	103	75-125		6010C
Calcium	51.50		41.5		10.0	100	75-125	4	6010C
Chromium	0.208		ND		0.200	104	75-125		6010C
Cobalt	0.202		ND		0.200	101	75-125		6010C
Copper	0.210		ND		0.200	105	75-125		6010C
Iron	10.37		ND		10.0	104	75-125		6010C
Lead	0.204		ND		0.200	102	75-125		6010C
Magnesium	20.50		9.9		10.0	106	75-125		6010C
Manganese	0.340		0.14		0.200	102	75-125		6010C
Nickel	0.197		ND		0.200	99	75-125		6010C
Potassium	9.51		0.70		10.0	88	75-125		6010C
Selenium	0.206		ND		0.200	103	75-125		6010C
Silver	0.0494		ND		0.0500	99	75-125		6010C
Sodium	13.53		4.6		10.0	89	75-125		6010C
Thallium	0.205		ND		0.200	102	75-125		6010C
Vanadium	0.207		ND		0.200	103	75-125		6010C
Zinc	0.210		ND		0.200	103	75-125		6010C

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: DUP CD-1RA MS
Lab ID: 480-198720-4 MS
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG No.: 198720
Matrix: Water
Concentration Units: mg/L
% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.00682		ND		0.00667	102	80-120		7470A

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MW-1A MS
Lab ID: 480-198813-1 MS
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG No.: 198720
Matrix: Water
Concentration Units: mg/L
% Solids:

Analyte	SSR C		Sample Result (SR) C		Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.00692		ND		0.00667	104	80-120		7470A

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MW-2B MS | Lab ID: 480-198813-3 MS

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water | Concentration Units: mg/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	9.93		0.31		10.0	96	75-125		6010C
Antimony	0.190		ND		0.200	95	75-125		6010C
Arsenic	0.191		ND		0.200	96	75-125		6010C
Barium	1.22		1.0		0.200	93	75-125	4	6010C
Beryllium	0.195		ND		0.200	97	75-125		6010C
Boron	0.362		0.17		0.200	96	75-125		6010C
Cadmium	0.186		ND		0.200	93	75-125		6010C
Calcium	176.5		166		10.0	104	75-125	4	6010C
Chromium	0.189		ND		0.200	95	75-125		6010C
Cobalt	0.189		ND		0.200	93	75-125		6010C
Copper	0.190		ND		0.200	93	75-125		6010C
Iron	9.71		0.51		10.0	92	75-125		6010C
Lead	0.189		ND		0.200	95	75-125		6010C
Magnesium	45.82		36.1		10.0	98	75-125		6010C
Manganese	4.86		4.6		0.200	112	75-125	4	6010C
Nickel	0.188		ND		0.200	91	75-125		6010C
Potassium	11.41		1.9		10.0	95	75-125		6010C
Selenium	0.189		ND		0.200	95	75-125		6010C
Silver	0.0465		ND		0.0500	93	75-125		6010C
Sodium	46.53		37.0		10.0	95	75-125		6010C
Thallium	0.189		ND		0.200	94	75-125		6010C
Vanadium	0.185		ND		0.200	92	75-125		6010C
Zinc	0.194		0.012		0.200	91	75-125		6010C

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: CD-1RA MSD | Lab ID: 480-198720-2 MSD

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water | Concentration Units: mg/L

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	10.39		10.0	104	75-125	9	20		6010C
Antimony	0.210		0.200	105	75-125	3	20		6010C
Arsenic	0.205		0.200	103	75-125	4	20		6010C
Barium	0.372		0.200	110	75-125	5	20		6010C
Beryllium	0.205		0.200	103	75-125	3	20		6010C
Boron	0.222		0.200	106	75-125	9	20		6010C
Cadmium	0.200		0.200	100	75-125	3	20		6010C
Calcium	51.68		10.0	102	75-125	0	20	4	6010C
Chromium	0.200		0.200	100	75-125	4	20		6010C
Cobalt	0.196		0.200	98	75-125	3	20		6010C
Copper	0.203		0.200	102	75-125	3	20		6010C
Iron	10.03		10.0	100	75-125	3	20		6010C
Lead	0.197		0.200	98	75-125	4	20		6010C
Magnesium	20.03		10.0	102	75-125	2	20		6010C
Manganese	0.340		0.200	102	75-125	0	20		6010C
Nickel	0.191		0.200	96	75-125	3	20		6010C
Potassium	10.46		10.0	97	75-125	10	20		6010C
Selenium	0.202		0.200	101	75-125	2	20		6010C
Silver	0.0497		0.0500	99	75-125	1	20		6010C
Sodium	14.53		10.0	99	75-125	7	20		6010C
Thallium	0.198		0.200	99	75-125	4	20		6010C
Vanadium	0.199		0.200	100	75-125	4	20		6010C
Zinc	0.221		0.200	108	75-125	5	20		6010C

SDR = Sample Duplicate Result

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

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: DUP CD-1RA MSD
Lab ID: 480-198720-4 MSD
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG No.: 198720
Matrix: Water
Concentration Units: mg/L
% Solids:

Analyte	(SDR) C		Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.00698		0.00667	105	80-120	2	20		7470A

SDR = Sample Duplicate Result

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

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MW-1A MSD
Lab ID: 480-198813-1 MSD
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG No.: 198720
Matrix: Water
Concentration Units: mg/L
% Solids:

Analyte	(SDR) C		Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.00695		0.00667	104	80-120	0	20		7470A

SDR = Sample Duplicate Result

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

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MW-2B MSD | Lab ID: 480-198813-3 MSD

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water | Concentration Units: mg/L

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	10.05		10.0	97	75-125	1	20		6010C
Antimony	0.199		0.200	99	75-125	5	20		6010C
Arsenic	0.200		0.200	100	75-125	4	20		6010C
Barium	1.26		0.200	112	75-125	3	20	4	6010C
Beryllium	0.199		0.200	99	75-125	2	20		6010C
Boron	0.374		0.200	103	75-125	3	20		6010C
Cadmium	0.192		0.200	96	75-125	3	20		6010C
Calcium	176.5		10.0	104	75-125	0	20	4	6010C
Chromium	0.194		0.200	97	75-125	2	20		6010C
Cobalt	0.195		0.200	96	75-125	3	20		6010C
Copper	0.196		0.200	96	75-125	3	20		6010C
Iron	9.91		10.0	94	75-125	2	20		6010C
Lead	0.194		0.200	97	75-125	3	20		6010C
Magnesium	47.30		10.0	112	75-125	3	20		6010C
Manganese	4.98		0.200	169	75-125	2	20	4	6010C
Nickel	0.192		0.200	94	75-125	3	20		6010C
Potassium	11.66		10.0	97	75-125	2	20		6010C
Selenium	0.196		0.200	98	75-125	3	20		6010C
Silver	0.0472		0.0500	94	75-125	1	20		6010C
Sodium	47.94		10.0	109	75-125	3	20		6010C
Thallium	0.195		0.200	97	75-125	3	20		6010C
Vanadium	0.189		0.200	95	75-125	2	20		6010C
Zinc	0.198		0.200	93	75-125	2	20		6010C

SDR = Sample Duplicate Result

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

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: CD-1RA PDS | Lab ID: 480-198720-2 PDS

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water | Concentration Units: mg/L

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	10.40		ND		10.0	104	80-120		6010C
Antimony	0.224		ND		0.200	112	80-120		6010C
Arsenic	0.219		ND		0.200	109	80-120		6010C
Barium	0.367		0.15		0.200	108	80-120		6010C
Beryllium	0.216		ND		0.200	108	80-120		6010C
Boron	0.220		ND		0.200	105	80-120		6010C
Cadmium	0.209		ND		0.200	105	80-120		6010C
Calcium	50.41		41.5		10.0	89	80-120		6010C
Chromium	0.217		ND		0.200	108	80-120		6010C
Cobalt	0.206		ND		0.200	103	80-120		6010C
Copper	0.216		ND		0.200	108	80-120		6010C
Iron	10.55		ND		10.0	106	80-120		6010C
Lead	0.207		ND		0.200	103	80-120		6010C
Magnesium	20.46		9.9		10.0	106	80-120		6010C
Manganese	0.346		0.14		0.200	105	80-120		6010C
Nickel	0.201		ND		0.200	101	80-120		6010C
Potassium	10.14		0.70		10.0	94	80-120		6010C
Selenium	0.210		ND		0.200	105	80-120		6010C
Silver	0.0526		ND		0.0500	105	80-120		6010C
Sodium	14.15		4.6		10.0	96	80-120		6010C
Thallium	0.214		ND		0.200	107	80-120		6010C
Vanadium	0.211		ND		0.200	105	80-120		6010C
Zinc	0.216		ND		0.200	105	80-120		6010C

SSR = Spiked Sample Result

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

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: MW-2B PDS | Lab ID: 480-198813-3 PDS

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water | Concentration Units: mg/L

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	10.28		0.31		10.0	100	80-120		6010C
Antimony	0.213		ND		0.200	106	80-120		6010C
Arsenic	0.208		ND		0.200	104	80-120		6010C
Barium	1.19		1.0		0.200	79	80-120	W	6010C
Beryllium	0.209		ND		0.200	105	80-120		6010C
Boron	0.367		0.17		0.200	99	80-120		6010C
Cadmium	0.201		ND		0.200	100	80-120		6010C
Calcium	170.9		166		10.0	NC	80-120		6010C
Chromium	0.208		ND		0.200	104	80-120		6010C
Cobalt	0.204		ND		0.200	100	80-120		6010C
Copper	0.207		ND		0.200	101	80-120		6010C
Iron	10.34		0.51		10.0	98	80-120		6010C
Lead	0.203		ND		0.200	101	80-120		6010C
Magnesium	45.66		36.1		10.0	96	80-120		6010C
Manganese	4.73		4.6		0.200	NC	80-120		6010C
Nickel	0.203		ND		0.200	99	80-120		6010C
Potassium	11.64		1.9		10.0	97	80-120		6010C
Selenium	0.200		ND		0.200	100	80-120		6010C
Silver	0.0497		ND		0.0500	99	80-120		6010C
Sodium	45.54		37.0		10.0	85	80-120		6010C
Thallium	0.208		ND		0.200	104	80-120		6010C
Vanadium	0.201		ND		0.200	101	80-120		6010C
Zinc	0.210		0.012		0.200	99	80-120		6010C

SSR = Spiked Sample Result

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

FORM VB - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-629262/2-A

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

Sample Matrix: Water LCS Source: MED_02_W2_00069

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	10.0	9.99		100	80	120		6010C
Antimony	0.200	0.205		102	80	120		6010C
Arsenic	0.200	0.203		102	80	120		6010C
Barium	0.200	0.212		106	80	120		6010C
Beryllium	0.200	0.208		104	80	120		6010C
Boron	0.200	0.202		101	80	120		6010C
Cadmium	0.200	0.200		100	80	120		6010C
Calcium	10.0	10.13		101	80	120		6010C
Chromium	0.200	0.202		101	80	120		6010C
Cobalt	0.200	0.201		101	80	120		6010C
Copper	0.200	0.207		103	80	120		6010C
Iron	10.0	10.35		104	80	120		6010C
Lead	0.200	0.201		101	80	120		6010C
Magnesium	10.0	10.39		104	80	120		6010C
Manganese	0.200	0.208		104	80	120		6010C
Nickel	0.200	0.197		99	80	120		6010C
Potassium	10.0	10.16		101	80	120		6010C
Selenium	0.200	0.192		96	80	120		6010C
Silver	0.0500	0.0483		97	80	120		6010C
Sodium	10.0	10.01		100	80	120		6010C
Thallium	0.200	0.205		103	80	120		6010C
Vanadium	0.200	0.201		101	80	120		6010C
Zinc	0.200	0.202		101	80	120		6010C

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-629664/2-A

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

Sample Matrix: Water LCS Source: MED_02_W2_00070

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	10.0	9.30		93	80	120		6010C
Antimony	0.200	0.185		93	80	120		6010C
Arsenic	0.200	0.183		91	80	120		6010C
Barium	0.200	0.200		100	80	120		6010C
Beryllium	0.200	0.187		94	80	120		6010C
Boron	0.200	0.193		96	80	120		6010C
Cadmium	0.200	0.179		89	80	120		6010C
Calcium	10.0	8.82		88	80	120		6010C
Chromium	0.200	0.186		93	80	120		6010C
Cobalt	0.200	0.177		89	80	120		6010C
Copper	0.200	0.182		91	80	120		6010C
Iron	10.0	9.01		90	80	120		6010C
Lead	0.200	0.176		88	80	120		6010C
Magnesium	10.0	9.41		94	80	120		6010C
Manganese	0.200	0.184		92	80	120		6010C
Nickel	0.200	0.175		87	80	120		6010C
Potassium	10.0	8.85		88	80	120		6010C
Selenium	0.200	0.185		92	80	120		6010C
Silver	0.0500	0.0457		91	80	120		6010C
Sodium	10.0	8.87		89	80	120		6010C
Thallium	0.200	0.185		92	80	120		6010C
Vanadium	0.200	0.178		89	80	120		6010C
Zinc	0.200	0.178		89	80	120		6010C

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - DISSOLVED

Lab ID: LCS 480-629787/2-B

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

Sample Matrix: Water LCS Source: MED_02_W2_00070

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	10.0	10.23		102	80	120		6010C
Antimony	0.200	0.203		102	80	120		6010C
Arsenic	0.200	0.197		98	80	120		6010C
Barium	0.200	0.215		107	80	120		6010C
Beryllium	0.200	0.205		102	80	120		6010C
Boron	0.200	0.203		101	80	120		6010C
Cadmium	0.200	0.195		97	80	120		6010C
Calcium	10.0	9.82		98	80	120		6010C
Chromium	0.200	0.201		101	80	120		6010C
Cobalt	0.200	0.193		96	80	120		6010C
Copper	0.200	0.201		100	80	120		6010C
Iron	10.0	10.09		101	80	120		6010C
Lead	0.200	0.192		96	80	120		6010C
Magnesium	10.0	10.21		102	80	120		6010C
Manganese	0.200	0.201		100	80	120		6010C
Nickel	0.200	0.189		94	80	120		6010C
Potassium	10.0	9.49		95	80	120		6010C
Selenium	0.200	0.193		97	80	120		6010C
Silver	0.0500	0.0478		96	80	120		6010C
Sodium	10.0	9.58		96	80	120		6010C
Thallium	0.200	0.195		98	80	120		6010C
Vanadium	0.200	0.198		99	80	120		6010C
Zinc	0.200	0.200		100	80	120		6010C

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-629607/2-A

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

Sample Matrix: Water LCS Source: MEH_HG1_WKG_02858

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.00667	0.00687		103	80	120		7470A

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-629751/2-A

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

Sample Matrix: Water LCS Source: MEH_HG1_WKG_02859

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.00667	0.00687		103	80	120		7470A

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - DISSOLVED

Lab ID: LCS 480-629787/2-C

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

Sample Matrix: Water LCS Source: MEH_HG1_WKG_02860

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.00667	0.00708		106	80	120		7470A

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

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - DISSOLVED

Lab ID: 480-198720-2

SDG No: 198720

Lab Name: Eurofins Buffalo Job No: 480-198720-1

Matrix: Water Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	ND		ND		NC		6010C
Antimony	ND		ND		NC		6010C
Arsenic	ND		ND		NC		6010C
Barium	0.15		0.153		1.2		6010C
Beryllium	ND		ND		NC		6010C
Boron	ND		ND		NC		6010C
Cadmium	ND		ND		NC		6010C
Calcium	41.5		42.06		1.3		6010C
Chromium	ND		ND		NC		6010C
Cobalt	ND		ND		NC		6010C
Copper	ND		ND		NC		6010C
Iron	ND		ND		NC		6010C
Lead	ND		ND		NC		6010C
Magnesium	9.9		10.0		1.3		6010C
Manganese	0.14		0.139		1.9		6010C
Nickel	ND		ND		NC		6010C
Potassium	0.70		ND		NC		6010C
Selenium	ND		ND		NC		6010C
Silver	ND		ND		NC		6010C
Sodium	4.6		ND		NC		6010C
Thallium	ND		ND		NC		6010C
Vanadium	ND		ND		NC		6010C
Zinc	ND		ND		NC		6010C

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

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-198813-3

SDG No: 198720

Lab Name: Eurofins Buffalo Job No: 480-198720-1

Matrix: Water Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	0.31		ND		NC		6010C
Antimony	ND		ND		NC		6010C
Arsenic	ND		ND		NC		6010C
Barium	1.0		1.10		6.6		6010C
Beryllium	ND		ND		NC		6010C
Boron	0.17		0.165		2.0		6010C
Cadmium	ND		ND		NC		6010C
Calcium	166		168.0		1.2		6010C
Chromium	ND		ND		NC		6010C
Cobalt	ND		ND		NC		6010C
Copper	ND		ND		NC		6010C
Iron	0.51		0.476		6.2		6010C
Lead	ND		ND		NC		6010C
Magnesium	36.1		37.29		3.4		6010C
Manganese	4.6		4.82		3.9		6010C
Nickel	ND		ND		NC		6010C
Potassium	1.9		ND		NC		6010C
Selenium	ND		ND		NC		6010C
Silver	ND		ND		NC		6010C
Sodium	37.0		35.28		4.7		6010C
Thallium	ND		ND		NC		6010C
Vanadium	ND		ND		NC		6010C
Zinc	0.012		ND		NC		6010C

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

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - DISSOLVED

Lab ID: 480-198720-4

SDG No: 198720

Lab Name: Eurofins Buffalo Job No: 480-198720-1

Matrix: Water Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury	ND		ND		NC		7470A

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

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-198813-1

SDG No: 198720

Lab Name: Eurofins Buffalo Job No: 480-198720-1

Matrix: Water Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury	ND		ND		NC		7470A

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: ICAP1

Method: 6010C MDL Date: 07/17/2013 11:47

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Boron	208.959	0.02	0.004
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.200	0.01	0.0015

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: ICAP1

Method: 6010C XMDL Date: 07/17/2013 11:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Boron	208.959	0.02	0.004
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.2	0.01	0.0015

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: ICAP2

Method: 6010C MDL Date: 07/17/2013 11:47

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Boron	208.959	0.02	0.004
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.200	0.01	0.0015

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: ICAP2

Method: 6010C XMDL Date: 07/17/2013 11:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Boron	208.959	0.02	0.004
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.2	0.01	0.0015

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: ICAP2

Method: 6010C MDL Date: 07/17/2013 11:47

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Boron	208.959	0.02	0.004
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.200	0.01	0.0015

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: ICAP2

Method: 6010C XMDL Date: 07/17/2013 11:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Boron	208.959	0.02	0.004
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.2	0.01	0.0015

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: LEEMAN5

Method: 7470A MDL Date: 06/21/2021 17:21

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury	253.7	0.0002	0.000043

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: LEEMAN5

Method: 7470A XMDL Date: 06/21/2021 17:23

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury	253.7	0.0002	0.000043

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: LEEMAN5

Method: 7470A MDL Date: 06/21/2021 17:21

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury	253.7	0.0002	0.000043

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: LEEMAN5

Method: 7470A XMDL Date: 06/21/2021 17:23

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury	253.7	0.0002	0.000043

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2340B MDL Date: 08/28/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Hardness as calcium carbonate		0.5	0.1

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2340B XMDL Date: 08/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Hardness as calcium carbonate		0.5	0.1

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG No.: 198720

ICP-AES Instrument ID: ICAP1 Date: 04/14/2022

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Ce	Co	Cr	Cu	Fe	K
Aluminum	308.215														
Antimony	206.833											0.005976		0.000013	
Arsenic	189.042		-0.00003300									-0.011195			
Barium	455.403														
Beryllium	313.042														
Boron	208.959														
Cadmium	228.802			0.003343										0.000001	
Calcium	317.933														
Chromium	267.716		0.000013											-0.000007	
Cobalt	228.616														
Copper	327.396							0.000008							
Iron	259.940														
Lead	220.353		-0.000031										0.000143	0.000041	
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610		0.000006											0.000003	
Molybdenum	202.030														
Nickel	231.604													0.000010	
Potassium	766.490														
Selenium	196.090		-0.000019												
Silicon	288.158														
Silver	328.068									-0.006683					
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034		-0.0010639												
Thallium	190.856										0.004598				
Tin	189.989														
Titanium	334.904														
Vanadium	292.402													0.00002	

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG No.: 198720

ICP-AES Instrument ID: ICAP1 Date: 04/14/2022

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Ce	Co	Cr	Cu	Fe	K
Zinc	206.200											-0.001456			

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG No.: 198720

ICP-AES Instrument ID: ICAP1 Date: 04/14/2022

Analyte	Wave Length	Li	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti
Aluminum	308.215														
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042														-0.001025
Boron	208.959				0.002541										
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716			0.000064											
Cobalt	228.616				-0.001081										0.001734
Copper	327.396														
Iron	259.940														
Lead	220.353				-0.001520							0.000018			
Lithium	670.784														
Magnesium	279.079			-0.003583											
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090			0.000315											
Silicon	288.158														
Silver	328.068			0.000072											
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856			0.000597											
Tin	189.989														
Titanium	334.904				.01185109										
Vanadium	292.402				0.012980										0.000492
Zinc	206.200														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG No.: 198720

ICP-AES Instrument ID: ICAP1 Date: 04/14/2022

Analyte	Wave Length	Tl	V	Zn											
Aluminum	308.215														
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042														
Boron	208.959														
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616														
Copper	327.396														
Iron	259.940														
Lead	220.353														
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090														
Silicon	288.158														
Silver	328.068														
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856		0.002141												
Tin	189.989														
Titanium	334.904														
Vanadium	292.402														
Zinc	206.200														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG No.: 198720

ICP-AES Instrument ID: ICAP2 Date: 03/12/2020

Analyte	Wave Length	Al	As	B	Ca	Ce	Co	Cr	Cu	Fe	Mg	Mn	Mo	S	Si
Aluminum	308.215														
Antimony	206.833	-0.000007						0.010493		-0.000007					
Arsenic	189.042							-0.003		-0.000017					
Barium	455.403														
Beryllium	313.042														
Boron	208.959												0.031758		
Cadmium	228.802		0.003547							-0.000007					
Calcium	317.933														
Chromium	267.716	-0.000004								-0.000004		0.000150			
Cobalt	228.616	0.000012											0.000776		
Copper	327.396				0.000024										
Iron	259.940														
Lead	220.353	-0.000057							0.000881	0.000029			-0.001918		0.003267
Lithium	670.784				0.00009										
Magnesium	279.079											-0.003351			
Manganese	257.610	0.000005								0.000003					
Molybdenum	202.030														
Nickel	231.604									0.000020					
Potassium	766.490														
Selenium	196.090									0.000015		0.000390			
Silicon	288.158														
Silver	328.068					-0.003915				-0.000005		0.000025			
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856						0.003145					0.000390165			
Tin	189.989														
Titanium	334.904												0.000971565		

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG No.: 198720

ICP-AES Instrument ID: ICAP2 Date: 03/12/2020

Analyte	Wave Length	Al	As	B	Ca	Ce	Co	Cr	Cu	Fe	Mg	Mn	Mo	S	Si
Vanadium	292.402									0.000035917			-0.010240		
Zinc	206.200							-0.001388							

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG No.: 198720

ICP-AES Instrument ID: ICAP2 Date: 03/12/2020

Analyte	Wave Length	Ti	V	Zn											
Aluminum	308.215		0.296448												
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042														
Boron	208.959														
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616	0.002076													
Copper	327.396	-0.001581													
Iron	259.940														
Lead	220.353														
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090														
Silicon	288.158														
Silver	328.068														
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856		-0.0062377	0.000229											
Tin	189.989														
Titanium	334.904														
Vanadium	292.402	0.000388													
Zinc	206.200														

X-IN

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins Buffalo Job No: 480-198720-1

SDG No.: 198720

Instrument ID: ICAP1 Date: 08/01/2019 09:58

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Aluminum	15	600	6010C
Antimony	15	10	6010C
Arsenic	15	5	6010C
Barium	15	10	6010C
Beryllium	15	25	6010C
Boron	15	20	6010C
Cadmium	15	5	6010C
Calcium	15	1000	6010C
Chromium	15	10	6010C
Cobalt	15	20	6010C
Copper	15	25	6010C
Iron	15	600	6010C
Lead	15	120	6010C
Magnesium	15	500	6010C
Manganese	15	50	6010C
Nickel	15	10	6010C
Potassium	15	600	6010C
Selenium	15	60	6010C
Silver	15	3	6010C
Sodium	15	1000	6010C
Thallium	15	20	6010C
Vanadium	15	5	6010C
Zinc	15	20	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins Buffalo Job No: 480-198720-1

SDG No.: 198720

Instrument ID: ICAP2 Date: 08/01/2019 10:00

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Aluminum	15	600	6010C
Antimony	15	10	6010C
Arsenic	15	5	6010C
Barium	15	10	6010C
Beryllium	15	25	6010C
Boron	15	20	6010C
Cadmium	15	5	6010C
Calcium	15	1000	6010C
Chromium	15	10	6010C
Cobalt	15	20	6010C
Copper	15	25	6010C
Iron	15	600	6010C
Lead	15	120	6010C
Magnesium	15	500	6010C
Manganese	15	50	6010C
Nickel	15	10	6010C
Potassium	15	600	6010C
Selenium	15	60	6010C
Silver	15	3	6010C
Sodium	15	1000	6010C
Thallium	15	20	6010C
Vanadium	15	5	6010C
Zinc	15	20	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins Buffalo Job No: 480-198720-1

SDG No.: 198720

Instrument ID: LEEMAN5 Date: 10/09/2018 16:19

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury	10	20	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-629262/1-A	06/09/2022 13:09	629262		50	50
LCS 480-629262/2-A	06/09/2022 13:09	629262		50	50
480-198720-1	06/09/2022 13:09	629262		50	50
480-198720-2	06/09/2022 13:09	629262		50	50
480-198720-3	06/09/2022 13:09	629262		50	50
480-198720-4	06/09/2022 13:09	629262		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-629664/1-A	06/13/2022 08:21	629664		50	50
LCS 480-629664/2-A	06/13/2022 08:21	629664		50	50
480-198813-1	06/13/2022 08:21	629664		50	50
480-198813-2	06/13/2022 08:21	629664		50	50
480-198813-3	06/13/2022 08:21	629664		50	50
480-198813-3 MS	06/13/2022 08:21	629664		50	50
480-198813-3 MSD	06/13/2022 08:21	629664		50	50
480-198813-4	06/13/2022 08:21	629664		50	50
480-198813-5	06/13/2022 08:21	629664		50	50
480-198813-6	06/13/2022 08:21	629664		50	50
480-198813-7	06/13/2022 08:21	629664		50	50
480-198813-8	06/13/2022 08:21	629664		50	50
480-198813-9	06/13/2022 08:21	629664		50	50
480-198813-10	06/13/2022 08:21	629664		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-629787/1-B	06/14/2022 09:55	629816		50	50
LCS 480-629787/2-B	06/14/2022 09:55	629816		50	50
480-198720-1	06/14/2022 09:55	629816		50	50
480-198720-2	06/14/2022 09:55	629816		50	50
480-198720-2 MS	06/14/2022 09:55	629816		50	50
480-198720-2 MSD	06/14/2022 09:55	629816		50	50
480-198720-4	06/14/2022 09:55	629816		50	50
480-198813-2	06/14/2022 09:55	629816		50	50
480-198813-8	06/14/2022 09:55	629816		50	50
480-198813-10	06/14/2022 09:55	629816		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-629607/1-A	06/10/2022 12:25	629607		30	50
LCS 480-629607/2-A	06/10/2022 12:25	629607		30	50
480-198720-1	06/10/2022 12:25	629607		15	50
480-198720-2	06/10/2022 12:25	629607		15	50
480-198720-3	06/10/2022 12:25	629607		30	50
480-198720-4	06/10/2022 12:25	629607		30	50

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-629751/1-A	06/13/2022 10:37	629751		30	50
LCS 480-629751/2-A	06/13/2022 10:37	629751		30	50
480-198813-1	06/13/2022 10:37	629751		30	50
480-198813-1 MS	06/13/2022 10:37	629751		30	50
480-198813-1 MSD	06/13/2022 10:37	629751		30	50
480-198813-2	06/13/2022 10:37	629751		30	50
480-198813-3	06/13/2022 10:37	629751		30	50
480-198813-4	06/13/2022 10:37	629751		30	50
480-198813-5	06/13/2022 10:37	629751		30	50
480-198813-6	06/13/2022 10:37	629751		30	50
480-198813-7	06/13/2022 10:37	629751		30	50
480-198813-8	06/13/2022 10:37	629751		15	50
480-198813-9	06/13/2022 10:37	629751		30	50
480-198813-10	06/13/2022 10:37	629751		30	50

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-629787/1-C	06/14/2022 10:39	629926		30	50
LCS 480-629787/2-C	06/14/2022 10:39	629926		30	50
480-198720-1	06/14/2022 10:39	629926		30	50
480-198720-2	06/14/2022 10:39	629926		30	50
480-198720-4	06/14/2022 10:39	629926		30	50
480-198720-4 MS	06/14/2022 10:39	629926		30	50
480-198720-4 MSD	06/14/2022 10:39	629926		30	50
480-198813-2	06/14/2022 10:39	629926		30	50
480-198813-8	06/14/2022 10:39	629926		30	50
480-198813-10	06/14/2022 10:39	629926		30	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: ICAP1 Method: 6010C

Start Date: 06/09/2022 12:09 End Date: 06/10/2022 03:01

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se
ICIS 480-629561/1	1		12:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-629561/2			12:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-629561/3			12:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-629561/4			12:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 480-629561/5	1		12:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 480-629561/6	1		12:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 480-629561/7	1		12:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 480-629561/8	1		12:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 480-629561/9	1		12:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			12:43																				
ZZZZZZ			12:47																				
ZZZZZZ			12:51																				
ZZZZZZ			12:55																				
ZZZZZZ			12:59																				
CCV 480-629561/15			13:03																				
CCB 480-629561/16			13:06																				
CCVL 480-629561/17			13:10																				
CCV 480-629561/18	1		00:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-629561/19	1		00:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-629561/20	1		00:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 480-629262/1-A	1	T	01:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-629561/22	1		01:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-629561/23	1		01:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-629561/24	1		01:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 480-629262/2-A	1	T	01:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			01:37																				
ZZZZZZ			01:41																				
ZZZZZZ			01:45																				
ZZZZZZ			01:49																				
ZZZZZZ			01:52																				
ZZZZZZ			01:56																				
ZZZZZZ			02:00																				
ZZZZZZ			02:04																				
CCV 480-629561/34	1		02:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-629561/35	1		02:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-629561/36	1		02:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			02:19																				
ZZZZZZ			02:23																				
ZZZZZZ			02:27																				
ZZZZZZ			02:31																				
ZZZZZZ			02:34																				
480-198720-1	1	T	02:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: ICAP1 Method: 6010C

Start Date: 06/09/2022 12:09 End Date: 06/10/2022 03:01

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se
480-198720-2	1	T	02:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-198720-3	1	T	02:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-198720-4	1	T	02:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-629561/46	1		02:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-629561/47	1		02:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-629561/48	1		03:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: ICAP1 Method: 6010C

Start Date: 06/09/2022 12:09 End Date: 06/10/2022 03:01

Lab Sample ID	D/F	Type	Time	Analytes																			
				Tl	V	Zn																	
ICIS 480-629561/1	1		12:09	X	X	X																	
IC 480-629561/2			12:13	X	X	X																	
IC 480-629561/3			12:16	X	X	X																	
IC 480-629561/4			12:20	X	X	X																	
ICV 480-629561/5	1		12:24	X	X	X																	
ICB 480-629561/6	1		12:27	X	X	X																	
ICVL 480-629561/7	1		12:31	X	X	X																	
ICSA 480-629561/8	1		12:35	X	X	X																	
ICSAB 480-629561/9	1		12:39	X	X	X																	
ZZZZZZ			12:43																				
ZZZZZZ			12:47																				
ZZZZZZ			12:51																				
ZZZZZZ			12:55																				
ZZZZZZ			12:59																				
CCV 480-629561/15			13:03																				
CCB 480-629561/16			13:06																				
CCVL 480-629561/17			13:10																				
CCV 480-629561/18	1		00:36	X	X	X																	
CCB 480-629561/19	1		00:40	X	X	X																	
CCVL 480-629561/20	1		00:44	X	X	X																	
MB 480-629262/1-A	1	T	01:18	X	X	X																	
CCV 480-629561/22	1		01:22	X	X	X																	
CCB 480-629561/23	1		01:26	X	X	X																	
CCVL 480-629561/24	1		01:30	X	X	X																	
LCS 480-629262/2-A	1	T	01:33	X	X	X																	
ZZZZZZ			01:37																				
ZZZZZZ			01:41																				
ZZZZZZ			01:45																				
ZZZZZZ			01:49																				
ZZZZZZ			01:52																				
ZZZZZZ			01:56																				
ZZZZZZ			02:00																				
ZZZZZZ			02:04																				
CCV 480-629561/34	1		02:08	X	X	X																	
CCB 480-629561/35	1		02:11	X	X	X																	
CCVL 480-629561/36	1		02:15	X	X	X																	
ZZZZZZ			02:19																				
ZZZZZZ			02:23																				
ZZZZZZ			02:27																				
ZZZZZZ			02:31																				
ZZZZZZ			02:34																				
480-198720-1	1	T	02:38	X	X																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: ICAP1 Method: 6010C

Start Date: 06/09/2022 12:09 End Date: 06/10/2022 03:01

Lab Sample ID	D / F	Type	Time	Analytes																			
				Tl	V	Zn																	
480-198720-2	1	T	02:42	X	X																		
480-198720-3	1	T	02:46	X	X																		
480-198720-4	1	T	02:50	X	X																		
CCV 480-629561/46	1		02:54	X	X	X																	
CCB 480-629561/47	1		02:57	X	X	X																	
CCVL 480-629561/48	1		03:01	X	X																		

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: ICAP1 Method: 6010C

Start Date: 06/10/2022 12:06 End Date: 06/10/2022 15:45

Lab Sample ID	D / F	Type	Time	Analytes																				
				Zn																				
ICIS 480-629768/1	1		12:06	X																				
IC 480-629768/2			12:10	X																				
IC 480-629768/3			12:14	X																				
IC 480-629768/4			12:18	X																				
ICV 480-629768/5	1		12:21	X																				
ICB 480-629768/6	1		12:25	X																				
ICVL 480-629768/7	1		12:29	X																				
ICSA 480-629768/8	1		12:33	X																				
ICSAB 480-629768/9	1		12:37	X																				
ZZZZZZ			12:40																					
ZZZZZZ			12:45																					
ZZZZZZ			12:48																					
ZZZZZZ			12:52																					
ZZZZZZ			12:56																					
CCV 480-629768/15			13:00																					
CCB 480-629768/16			13:04																					
CCVL 480-629768/17			13:08																					
ZZZZZZ			13:39																					
ZZZZZZ			13:43																					
CCV 480-629768/20			13:46																					
CCB 480-629768/21			13:50																					
CCVL 480-629768/22			13:54																					
CCV 480-629768/23	1		14:47	X																				
CCB 480-629768/24	1		14:51	X																				
CCVL 480-629768/25	1		14:59	X																				
480-198720-1	1	T	15:03	X																				
480-198720-2	1	T	15:07	X																				
480-198720-3	1	T	15:11	X																				
480-198720-4	1	T	15:14	X																				
CCV 480-629768/30	1		15:38	X																				
CCB 480-629768/31	1		15:41	X																				
CCVL 480-629768/32	1		15:45	X																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: ICAP1 Method: 6010C

Start Date: 06/14/2022 11:41 End Date: 06/14/2022 17:35

Lab Sample ID	D / F	Type	Time	Analytes																			
				Fe																			
ICIS 480-630098/1	1		11:41	X																			
IC 480-630098/2			11:45	X																			
IC 480-630098/3			11:49	X																			
IC 480-630098/4			11:52	X																			
ICV 480-630098/5	1		11:56	X																			
ICB 480-630098/6	1		12:00	X																			
ICVL 480-630098/7	1		12:04	X																			
ICSA 480-630098/8	1		12:07	X																			
ICSAB 480-630098/9	1		12:11	X																			
ZZZZZZ			12:15																				
ZZZZZZ			12:19																				
ZZZZZZ			12:23																				
ZZZZZZ			12:27																				
ZZZZZZ			12:31																				
CCV 480-630098/15			12:35																				
CCB 480-630098/16			12:39																				
CCVL 480-630098/17			13:00																				
CCV 480-630098/18	1		16:42	X																			
CCB 480-630098/19	1		16:45	X																			
CCVL 480-630098/20	1		16:49	X																			
480-198813-9	1	T	16:57	X																			
480-198813-10	1	T	17:01	X																			
ZZZZZZ			17:05																				
ZZZZZZ			17:08																				
ZZZZZZ			17:12																				
CCV 480-630098/26	1		17:28	X																			
CCB 480-630098/27	1		17:31	X																			
CCVL 480-630098/28	1		17:35	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: ICAP2 Method: 6010C

Start Date: 06/13/2022 14:34 End Date: 06/13/2022 21:19

Lab Sample ID	D/F	Type	Time	Analytes																		
				Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se
ICIS 480-629955/1	1		14:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-629955/2			14:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-629955/3			14:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-629955/4			14:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 480-629955/5	1		14:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 480-629955/6	1		14:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 480-629955/7	1		14:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 480-629955/8	1		15:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 480-629955/9	1		15:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			15:08																				
ZZZZZZ			15:12																				
ZZZZZZ			15:16																				
ZZZZZZ			15:20																				
ZZZZZZ			15:24																				
CCV 480-629955/15			15:28																				
CCB 480-629955/16			15:32																				
CCVL 480-629955/17			15:53																				
CCV 480-629955/18	1		18:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-629955/19	1		18:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-629955/20	1		18:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 480-629664/1-A	1	T	18:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 480-629664/2-A	1	T	18:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			18:47																				
CCV 480-629955/24	1		18:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-629955/25	1		18:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-629955/26	1		18:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			19:03																				
ZZZZZZ			19:06																				
ZZZZZZ			19:10																				
ZZZZZZ			19:14																				
ZZZZZZ			19:18																				
ZZZZZZ			19:22																				
480-198813-1	1	T	19:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-198813-2	1	T	19:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-198813-3	1	T	19:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-629955/36	1		19:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-629955/37	1		19:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-629955/38	1		19:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-198813-3 SD	5	T	19:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-198813-3 PDS	1	T	19:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-198813-3 MS	1	T	19:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-198813-3 MSD	1	T	20:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: ICAP2 Method: 6010C

Start Date: 06/13/2022 14:34 End Date: 06/13/2022 21:19

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se
480-198813-4	1	T	20:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-198813-5	1	T	20:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-198813-6	1	T	20:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-198813-7	1	T	20:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-198813-8	1	T	20:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-629955/48	1		20:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-629955/49	1		20:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-629955/50	1		20:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-198813-9	1	T	20:36	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X
480-198813-10	1	T	20:40	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X
ZZZZZZ			20:44																				
ZZZZZZ			20:48																				
ZZZZZZ			20:52																				
CCV 480-629955/56	1		21:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-629955/57	1		21:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-629955/58	1		21:19	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: ICAP2 Method: 6010C

Start Date: 06/13/2022 14:34 End Date: 06/13/2022 21:19

Lab Sample ID	D/F	Type	Time	Analytes																			
				Tl	V	Zn																	
ICIS 480-629955/1	1		14:34	X	X	X																	
IC 480-629955/2			14:38	X	X	X																	
IC 480-629955/3			14:41	X	X	X																	
IC 480-629955/4			14:45	X	X	X																	
ICV 480-629955/5	1		14:49	X	X	X																	
ICB 480-629955/6	1		14:53	X	X	X																	
ICVL 480-629955/7	1		14:56	X	X	X																	
ICSA 480-629955/8	1		15:00	X	X	X																	
ICSAB 480-629955/9	1		15:04	X	X	X																	
ZZZZZZ			15:08																				
ZZZZZZ			15:12																				
ZZZZZZ			15:16																				
ZZZZZZ			15:20																				
ZZZZZZ			15:24																				
CCV 480-629955/15			15:28																				
CCB 480-629955/16			15:32																				
CCVL 480-629955/17			15:53																				
CCV 480-629955/18	1		18:05	X	X	X																	
CCB 480-629955/19	1		18:08	X	X	X																	
CCVL 480-629955/20	1		18:12	X	X	X																	
MB 480-629664/1-A	1	T	18:39	X	X	X																	
LCS 480-629664/2-A	1	T	18:43	X	X	X																	
ZZZZZZ			18:47																				
CCV 480-629955/24	1		18:51	X	X	X																	
CCB 480-629955/25	1		18:55	X	X	X																	
CCVL 480-629955/26	1		18:59	X	X	X																	
ZZZZZZ			19:03																				
ZZZZZZ			19:06																				
ZZZZZZ			19:10																				
ZZZZZZ			19:14																				
ZZZZZZ			19:18																				
ZZZZZZ			19:22																				
480-198813-1	1	T	19:26	X	X	X																	
480-198813-2	1	T	19:30	X	X	X																	
480-198813-3	1	T	19:34	X	X	X																	
CCV 480-629955/36	1		19:38	X	X	X																	
CCB 480-629955/37	1		19:41	X	X	X																	
CCVL 480-629955/38	1		19:45	X	X	X																	
480-198813-3 SD	5	T	19:49	X	X	X																	
480-198813-3 PDS	1	T	19:53	X	X	X																	
480-198813-3 MS	1	T	19:57	X	X	X																	
480-198813-3 MSD	1	T	20:01	X	X	X																	

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: ICAP2 Method: 6010C

Start Date: 06/13/2022 14:34 End Date: 06/13/2022 21:19

Lab Sample ID	D / F	Type	Time	Analytes																			
				Tl	V	Zn																	
480-198813-4	1	T	20:05	X	X	X																	
480-198813-5	1	T	20:09	X	X	X																	
480-198813-6	1	T	20:13	X	X	X																	
480-198813-7	1	T	20:17	X	X	X																	
480-198813-8	1	T	20:21	X	X	X																	
CCV 480-629955/48	1		20:25	X	X	X																	
CCB 480-629955/49	1		20:28	X	X	X																	
CCVL 480-629955/50	1		20:32	X	X	X																	
480-198813-9	1	T	20:36	X	X	X																	
480-198813-10	1	T	20:40	X	X	X																	
ZZZZZZ			20:44																				
ZZZZZZ			20:48																				
ZZZZZZ			20:52																				
CCV 480-629955/56	1		21:11	X	X	X																	
CCB 480-629955/57	1		21:15	X	X	X																	
CCVL 480-629955/58	1		21:19	X	X	X																	

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: ICAP2 Method: 6010C

Start Date: 06/15/2022 10:45 End Date: 06/15/2022 14:20

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se
ICIS 480-630310/1	1		10:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-630310/2			10:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-630310/3			10:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-630310/4			10:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 480-630310/5	1		11:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 480-630310/6	1		11:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 480-630310/7	1		11:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 480-630310/8	1		11:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 480-630310/9	1		11:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			11:19																				
ZZZZZZ			11:23																				
ZZZZZZ			11:27																				
ZZZZZZ			11:31																				
ZZZZZZ			11:35																				
CCV 480-630310/15			11:39																				
CCB 480-630310/16			11:43																				
CCVL 480-630310/17			12:01																				
CCV 480-630310/18	1		12:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-630310/19	1		12:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-630310/20	1		12:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 480-629787/1-B	1	D	12:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 480-629787/2-B	1	D	12:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-198720-1	1	D	12:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-198720-2	1	D	13:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-198720-2 SD	5	D	13:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-198720-2 PDS	1	D	13:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-198720-2 MS	1	D	13:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-198720-2 MSD	1	D	13:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-198720-4	1	D	13:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-630310/30	1		13:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-630310/31	1		13:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-630310/32	1		13:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-198813-2	1	D	13:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-198813-8	1	D	13:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-198813-10	1	D	13:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-630310/36	1		14:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-630310/37	1		14:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-630310/38	1		14:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: ICAP2 Method: 6010C

Start Date: 06/15/2022 10:45 End Date: 06/15/2022 14:20

Lab Sample ID	D/F	Type	Time	Analytes																			
				Tl	V	Zn																	
ICIS 480-630310/1	1		10:45	X	X	X																	
IC 480-630310/2			10:49	X	X	X																	
IC 480-630310/3			10:52	X	X	X																	
IC 480-630310/4			10:56	X	X	X																	
ICV 480-630310/5	1		11:00	X	X	X																	
ICB 480-630310/6	1		11:04	X	X	X																	
ICVL 480-630310/7	1		11:08	X	X	X																	
ICSA 480-630310/8	1		11:11	X	X	X																	
ICSAB 480-630310/9	1		11:15	X	X	X																	
ZZZZZZ			11:19																				
ZZZZZZ			11:23																				
ZZZZZZ			11:27																				
ZZZZZZ			11:31																				
ZZZZZZ			11:35																				
CCV 480-630310/15			11:39																				
CCB 480-630310/16			11:43																				
CCVL 480-630310/17			12:01																				
CCV 480-630310/18	1		12:40	X	X	X																	
CCB 480-630310/19	1		12:44	X	X	X																	
CCVL 480-630310/20	1		12:48	X	X	X																	
MB 480-629787/1-B	1	D	12:52	X	X	X																	
LCS 480-629787/2-B	1	D	12:56	X	X	X																	
480-198720-1	1	D	12:59	X	X	X																	
480-198720-2	1	D	13:03	X	X	X																	
480-198720-2 SD	5	D	13:07	X	X	X																	
480-198720-2 PDS	1	D	13:11	X	X	X																	
480-198720-2 MS	1	D	13:15	X	X	X																	
480-198720-2 MSD	1	D	13:18	X	X	X																	
480-198720-4	1	D	13:22	X	X	X																	
CCV 480-630310/30	1		13:26	X	X	X																	
CCB 480-630310/31	1		13:30	X	X	X																	
CCVL 480-630310/32	1		13:34	X	X	X																	
480-198813-2	1	D	13:38	X	X	X																	
480-198813-8	1	D	13:42	X	X	X																	
480-198813-10	1	D	13:45	X	X	X																	
CCV 480-630310/36	1		14:12	X	X	X																	
CCB 480-630310/37	1		14:16	X	X	X																	
CCVL 480-630310/38	1		14:20	X	X	X																	

Prep Types

D = Dissolved

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 06/10/2022 16:07 End Date: 06/10/2022 18:00

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
IC 480-629659/1-A			16:07	X																			
IC 480-629659/2-A			16:08	X																			
IC 480-629659/3-A			16:09	X																			
IC 480-629659/4-A			16:10	X																			
IC 480-629659/5-A			16:12	X																			
IC 480-629659/6-A			16:13	X																			
ICV 480-629668/7	1		16:14	X																			
ICB 480-629668/8	1		16:16	X																			
ICVL 480-629668/9	1		16:17	X																			
CCV 480-629668/10	1		16:18	X																			
CCB 480-629668/11	1		16:20	X																			
MB 480-629607/1-A	1	T	16:21	X																			
LCS 480-629607/2-A	1	T	16:22	X																			
ZZZZZZ			16:24																				
ZZZZZZ			16:25																				
ZZZZZZ			16:26																				
ZZZZZZ			16:27																				
ZZZZZZ			16:29																				
ZZZZZZ			16:30																				
ZZZZZZ			16:31																				
ZZZZZZ			16:33																				
CCV 480-629668/22	1		16:34	X																			
CCB 480-629668/23	1		16:35	X																			
ZZZZZZ			16:37																				
ZZZZZZ			16:38																				
ZZZZZZ			16:39																				
ZZZZZZ			16:41																				
480-198720-1	1	T	16:42	X																			
480-198720-2	1	T	16:43	X																			
480-198720-3	1	T	16:44	X																			
480-198720-4	1	T	16:46	X																			
ZZZZZZ			16:47																				
ZZZZZZ			16:48																				
CCV 480-629668/34	1		16:50	X																			
CCB 480-629668/35	1		16:51	X																			
ZZZZZZ			16:52																				
ZZZZZZ			16:54																				
ZZZZZZ			16:55																				
ZZZZZZ			16:56																				
ZZZZZZ			16:57																				
ZZZZZZ			16:59																				
ZZZZZZ			17:00																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 06/10/2022 16:07 End Date: 06/10/2022 18:00

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			17:01																				
ZZZZZZ			17:03																				
ZZZZZZ			17:04																				
CCV 480-629668/46			17:05																				
CCB 480-629668/47			17:07																				
ZZZZZZ			17:08																				
ZZZZZZ			17:09																				
ZZZZZZ			17:11																				
ZZZZZZ			17:12																				
ZZZZZZ			17:13																				
ZZZZZZ			17:14																				
ZZZZZZ			17:16																				
ZZZZZZ			17:17																				
ZZZZZZ			17:18																				
ZZZZZZ			17:20																				
CCV 480-629668/58			17:21																				
CCB 480-629668/59			17:22																				
ZZZZZZ			17:24																				
ZZZZZZ			17:25																				
ZZZZZZ			17:26																				
ZZZZZZ			17:27																				
ZZZZZZ			17:29																				
ZZZZZZ			17:30																				
ZZZZZZ			17:31																				
ZZZZZZ			17:33																				
ZZZZZZ			17:34																				
ZZZZZZ			17:35																				
CCV 480-629668/70			17:37																				
CCB 480-629668/71			17:38																				
ZZZZZZ			17:39																				
ZZZZZZ			17:41																				
ZZZZZZ			17:42																				
ZZZZZZ			17:43																				
ZZZZZZ			17:44																				
ZZZZZZ			17:46																				
ZZZZZZ			17:47																				
ZZZZZZ			17:48																				
ZZZZZZ			17:50																				
ZZZZZZ			17:51																				
CCV 480-629668/82			17:52																				
CCB 480-629668/83			17:54																				
ZZZZZZ			17:55																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 06/10/2022 16:07 End Date: 06/10/2022 18:00

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			17:56																				
CCV 480-629668/86			17:58																				
CCB 480-629668/87			17:59																				
CCVL 480-629668/88	1		18:00	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 06/13/2022 14:12 End Date: 06/13/2022 17:20

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
IC 480-629855/1-A			14:12	X																			
IC 480-629855/2-A			14:13	X																			
IC 480-629855/3-A			14:14	X																			
IC 480-629855/4-A			14:15	X																			
IC 480-629855/5-A			14:17	X																			
IC 480-629855/6-A			14:18	X																			
ICV 480-629882/7	1		14:19	X																			
ICB 480-629882/8	1		14:21	X																			
ICVL 480-629882/9	1		14:22	X																			
CCV 480-629882/10	1		14:23	X																			
CCB 480-629882/11	1		14:25	X																			
MB 480-629751/1-A	1	T	14:26	X																			
LCS 480-629751/2-A	1	T	14:27	X																			
ZZZZZZ			14:29																				
ZZZZZZ			14:30																				
ZZZZZZ			14:31																				
480-198813-1	1	T	14:32	X																			
480-198813-1 SD	5	T	14:34	X																			
480-198813-1 MS	1	T	14:35	X																			
480-198813-1 MSD	1	T	14:36	X																			
480-198813-2	1	T	14:38	X																			
CCV 480-629882/22	1		14:39	X																			
CCB 480-629882/23	1		14:40	X																			
480-198813-3	1	T	14:42	X																			
480-198813-4	1	T	14:43	X																			
480-198813-5	1	T	14:44	X																			
480-198813-6	1	T	14:46	X																			
480-198813-7	1	T	14:47	X																			
480-198813-8	1	T	14:48	X																			
480-198813-9	1	T	14:49	X																			
480-198813-10	1	T	14:51	X																			
ZZZZZZ			14:52																				
ZZZZZZ			14:53																				
CCV 480-629882/34	1		14:55	X																			
CCB 480-629882/35	1		14:56	X																			
ZZZZZZ			14:57																				
ZZZZZZ			14:59																				
ZZZZZZ			15:00																				
ZZZZZZ			15:01																				
ZZZZZZ			15:03																				
ZZZZZZ			15:04																				
ZZZZZZ			15:05																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 06/13/2022 14:12 End Date: 06/13/2022 17:20

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			15:06																				
ZZZZZZ			15:08																				
ZZZZZZ			15:09																				
CCV 480-629882/46			15:10																				
CCB 480-629882/47			15:12																				
ZZZZZZ			15:13																				
ZZZZZZ			15:14																				
ZZZZZZ			15:16																				
ZZZZZZ			15:17																				
ZZZZZZ			15:18																				
ZZZZZZ			15:19																				
ZZZZZZ			15:21																				
ZZZZZZ			15:22																				
ZZZZZZ			15:23																				
ZZZZZZ			15:25																				
CCV 480-629882/58			15:26																				
CCB 480-629882/59			15:27																				
ZZZZZZ			15:29																				
ZZZZZZ			15:30																				
ZZZZZZ			15:31																				
ZZZZZZ			15:32																				
ZZZZZZ			15:34																				
ZZZZZZ			15:35																				
ZZZZZZ			15:36																				
ZZZZZZ			15:38																				
ZZZZZZ			15:39																				
ZZZZZZ			15:40																				
CCV 480-629882/70			15:42																				
CCB 480-629882/71			15:43																				
ZZZZZZ			15:44																				
ZZZZZZ			15:46																				
ZZZZZZ			15:47																				
ZZZZZZ			15:48																				
ZZZZZZ			15:49																				
ZZZZZZ			15:51																				
ZZZZZZ			15:52																				
ZZZZZZ			15:53																				
ZZZZZZ			15:55																				
ZZZZZZ			15:56																				
CCV 480-629882/82			15:57																				
CCB 480-629882/83			15:59																				
CCVL 480-629882/84	1		16:00	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 06/13/2022 14:12 End Date: 06/13/2022 17:20

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			16:01																				
ZZZZZZ			16:03																				
ZZZZZZ			16:04																				
ZZZZZZ			16:05																				
ZZZZZZ			16:06																				
ZZZZZZ			16:08																				
ZZZZZZ			16:09																				
ZZZZZZ			16:10																				
ZZZZZZ			16:12																				
ZZZZZZ			16:13																				
CCV 480-629882/95			16:14																				
CCB 480-629882/96			16:16																				
ZZZZZZ			16:17																				
ZZZZZZ			16:18																				
ZZZZZZ			16:20																				
ZZZZZZ			16:21																				
ZZZZZZ			16:22																				
ZZZZZZ			16:23																				
ZZZZZZ			16:25																				
ZZZZZZ			16:26																				
ZZZZZZ			16:27																				
ZZZZZZ			16:29																				
CCV 480-629882/107			16:30																				
CCB 480-629882/108			16:31																				
ZZZZZZ			16:33																				
ZZZZZZ			16:34																				
ZZZZZZ			16:35																				
ZZZZZZ			16:37																				
ZZZZZZ			16:38																				
ZZZZZZ			16:39																				
ZZZZZZ			16:40																				
ZZZZZZ			16:42																				
ZZZZZZ			16:43																				
ZZZZZZ			16:44																				
CCV 480-629882/119			16:46																				
CCB 480-629882/120			16:47																				
ZZZZZZ			16:48																				
ZZZZZZ			16:50																				
ZZZZZZ			16:51																				
ZZZZZZ			16:52																				
ZZZZZZ			16:54																				
ZZZZZZ			16:55																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 06/13/2022 14:12 End Date: 06/13/2022 17:20

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			16:56																				
ZZZZZZ			16:58																				
ZZZZZZ			16:59																				
ZZZZZZ			17:00																				
CCV 480-629882/131			17:01																				
CCB 480-629882/132			17:03																				
ZZZZZZ			17:04																				
ZZZZZZ			17:05																				
ZZZZZZ			17:07																				
ZZZZZZ			17:08																				
ZZZZZZ			17:09																				
ZZZZZZ			17:11																				
ZZZZZZ			17:12																				
ZZZZZZ			17:13																				
ZZZZZZ			17:15																				
ZZZZZZ			17:16																				
CCV 480-629882/143			17:17																				
CCB 480-629882/144			17:18																				
CCVL 480-629882/145			17:20																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 06/14/2022 13:31 End Date: 06/14/2022 15:41

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
IC 480-629999/1-A			13:31	X																			
IC 480-629999/2-A			13:33	X																			
IC 480-629999/3-A			13:34	X																			
IC 480-629999/4-A			13:35	X																			
IC 480-629999/5-A			13:37	X																			
IC 480-629999/6-A			13:38	X																			
ICV 480-630021/7			13:39																				
ICV 480-630021/8	1		13:43	X																			
ICB 480-630021/9	1		13:44	X																			
ICVL 480-630021/10	1		13:45	X																			
CCV 480-630021/11	1		13:47	X																			
CCB 480-630021/12	1		13:48	X																			
MB 480-629787/1-C	1	D	13:51	X																			
LCS 480-629787/2-C	1	D	13:53	X																			
480-198720-1	1	D	13:54	X																			
480-198720-2	1	D	13:55	X																			
480-198720-4	1	D	13:56	X																			
480-198720-4 SD	5	D	13:58	X																			
480-198720-4 MS	1	D	13:59	X																			
480-198720-4 MSD	1	D	14:00	X																			
480-198813-2	1	D	14:02	X																			
480-198813-8	1	D	14:03	X																			
CCV 480-630021/23	1		14:04	X																			
CCB 480-630021/24	1		14:06	X																			
480-198813-10	1	D	14:07	X																			
ZZZZZZ			14:08																				
ZZZZZZ			14:09																				
ZZZZZZ			14:11																				
ZZZZZZ			14:12																				
ZZZZZZ			14:13																				
ZZZZZZ			14:15																				
ZZZZZZ			14:16																				
ZZZZZZ			14:17																				
ZZZZZZ			14:19																				
CCV 480-630021/35	1		14:20	X																			
CCB 480-630021/36	1		14:21	X																			
ZZZZZZ			14:23																				
ZZZZZZ			14:24																				
ZZZZZZ			14:25																				
ZZZZZZ			14:26																				
ZZZZZZ			14:28																				
ZZZZZZ			14:29																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 06/14/2022 13:31 End Date: 06/14/2022 15:41

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			14:30																				
ZZZZZZ			14:32																				
ZZZZZZ			14:33																				
ZZZZZZ			14:34																				
CCV 480-630021/47			14:36																				
CCB 480-630021/48			14:37																				
ZZZZZZ			14:38																				
ZZZZZZ			14:39																				
ZZZZZZ			14:41																				
ZZZZZZ			14:42																				
ZZZZZZ			14:43																				
ZZZZZZ			14:45																				
ZZZZZZ			14:46																				
ZZZZZZ			14:47																				
ZZZZZZ			14:49																				
ZZZZZZ			14:50																				
CCV 480-630021/59			14:51																				
CCB 480-630021/60			14:52																				
ZZZZZZ			14:54																				
ZZZZZZ			14:55																				
ZZZZZZ			14:56																				
ZZZZZZ			14:58																				
ZZZZZZ			14:59																				
ZZZZZZ			15:00																				
ZZZZZZ			15:02																				
ZZZZZZ			15:03																				
ZZZZZZ			15:04																				
ZZZZZZ			15:06																				
CCV 480-630021/71			15:07																				
CCB 480-630021/72			15:08																				
ZZZZZZ			15:09																				
ZZZZZZ			15:11																				
ZZZZZZ			15:12																				
ZZZZZZ			15:13																				
ZZZZZZ			15:15																				
ZZZZZZ			15:16																				
ZZZZZZ			15:17																				
ZZZZZZ			15:19																				
ZZZZZZ			15:20																				
ZZZZZZ			15:21																				
CCV 480-630021/83			15:23																				
CCB 480-630021/84			15:24																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 06/14/2022 13:31 End Date: 06/14/2022 15:41

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			15:25																				
ZZZZZZ			15:26																				
ZZZZZZ			15:28																				
ZZZZZZ			15:29																				
ZZZZZZ			15:30																				
ZZZZZZ			15:32																				
ZZZZZZ			15:33																				
ZZZZZZ			15:34																				
ZZZZZZ			15:36																				
ZZZZZZ			15:37																				
CCV 480-630021/95			15:38																				
CCB 480-630021/96			15:40																				
CCVL 480-630021/97	1		15:41	X																			

Prep Types
D = Dissolved

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: NOEQUIP Method: SM 2340B

Start Date: 06/10/2022 15:08 End Date: 06/10/2022 15:08

Lab Sample ID	D / F	Type	Time	Analytes																			
				HardCC																			
480-198720-1	1	T	15:08	X																			
480-198720-2	1	T	15:08	X																			
480-198720-3	1	T	15:08	X																			
480-198720-4	1	T	15:08	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: NOEQUIP Method: SM 2340B

Start Date: 06/16/2022 14:01 End Date: 06/16/2022 14:01

Lab Sample ID	D / F	Type	Time	Analytes																			
				HardCC																			
480-198813-1	1	T	14:01	X																			
480-198813-2	1	T	14:01	X																			
480-198813-3	1	T	14:01	X																			
480-198813-4	1	T	14:01	X																			
480-198813-5	1	T	14:01	X																			
480-198813-6	1	T	14:01	X																			
480-198813-7	1	T	14:01	X																			
480-198813-8	1	T	14:01	X																			
480-198813-9	1	T	14:01	X																			
480-198813-10	1	T	14:01	X																			

Prep Types

T = Total/NA

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720 Analysis Batch No.: 629561

ICP Instrument ID: ICAP1 Start Date: 06/09/2022 End Date: 06/10/2022

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 377.433	Q	Element	Q
ICIS 480-629561/1	12:09										
ICV 480-629561/5	12:24	87		95		93		98			
ICB 480-629561/6	12:27	100		99		99		99			
ICVL 480-629561/7	12:31	99		99		99		99			
ICSA 480-629561/8	12:35	74		86		85		95			
ICSAB 480-629561/9	12:39	74		87		86		96			
CCV 480-629561/18	00:36	85		95		93		91			
CCB 480-629561/19	00:40	100		101		100		94			
CCVL 480-629561/20	00:44	100		101		101		95			
MB 480-629262/1-A	01:18	98		99		99		93			
CCV 480-629561/22	01:22	86		96		94		92			
CCB 480-629561/23	01:26	101		101		100		94			
CCVL 480-629561/24	01:30	100		100		100		94			
LCS 480-629262/2-A	01:33	94		98		97		94			
CCV 480-629561/34	02:08	85		94		92		90			
CCB 480-629561/35	02:11	101		101		100		94			
CCVL 480-629561/36	02:15	100		101		100		94			
480-198720-1	02:38	90		97		96		94			
480-198720-2	02:42	92		97		96		93			
480-198720-3	02:46	93		96		95		93			
480-198720-4	02:50	92		97		96		93			
CCV 480-629561/46	02:54	84		93		92		90			
CCB 480-629561/47	02:57	101		101		100		94			
CCVL 480-629561/48	03:01	100		101		100		94			

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720 Analysis Batch No.: 629768

ICP Instrument ID: ICAP1 Start Date: 06/10/2022 End Date: 06/10/2022

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 377.433	Q	Element	Q
ICIS 480-629768/1	12:06										
ICV 480-629768/5	12:21	87		95		93		98			
ICB 480-629768/6	12:25	101		100		100		101			
ICVL 480-629768/7	12:29	99		99		99		99			
ICSA 480-629768/8	12:33	74		88		87		96			
ICSAB 480-629768/9	12:37	72		85		84		94			
CCV 480-629768/23	14:47	85		96		94		96			
CCB 480-629768/24	14:51	98		99		99		98			
CCVL 480-629768/25	14:59	98		99		100		97			
480-198720-1	15:03	89		97		98		101			
480-198720-2	15:07	92		98		98		100			
480-198720-3	15:11	95		99		100		102			
480-198720-4	15:14	92		98		98		100			
CCV 480-629768/30	15:38	83		93		92		95			
CCB 480-629768/31	15:41	100		101		101		99			
CCVL 480-629768/32	15:45	98		100		100		99			

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720 Analysis Batch No.: 630098

ICP Instrument ID: ICAP1 Start Date: 06/14/2022 End Date: 06/14/2022

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 377.433	Q	Element	Q
ICIS 480-630098/1	11:41										
ICV 480-630098/5	11:56	89		98		96		101			
ICB 480-630098/6	12:00	102		102		101		102			
ICVL 480-630098/7	12:04	102		102		102		103			
ICSA 480-630098/8	12:07	77		89		88		100			
ICSAB 480-630098/9	12:11	75		87		86		97			
CCV 480-630098/18	16:42	88		97		95		99			
CCB 480-630098/19	16:45	102		102		101		102			
CCVL 480-630098/20	16:49	102		102		102		103			
480-198813-9	16:57	94		99		98		103			
480-198813-10	17:01	91		98		97		102			
CCV 480-630098/26	17:28	88		97		94		102			
CCB 480-630098/27	17:31	101		101		100		102			
CCVL 480-630098/28	17:35	102		102		102		102			

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720 Analysis Batch No.: 629955

ICP Instrument ID: ICAP2 Start Date: 06/13/2022 End Date: 06/13/2022

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 377.433	Q	Element	Q
ICIS 480-629955/1	14:34										
ICV 480-629955/5	14:49	90		98		96		98			
ICB 480-629955/6	14:53	101		101		101		96			
ICVL 480-629955/7	14:56	102		102		101		99			
ICSA 480-629955/8	15:00	75		89		86		94			
ICSAB 480-629955/9	15:04	76		90		87		96			
CCV 480-629955/18	18:05	89		99		96		98			
CCB 480-629955/19	18:08	104		104		104		102			
CCVL 480-629955/20	18:12	103		103		104		104			
MB 480-629664/1-A	18:39	105		104		105		104			
LCS 480-629664/2-A	18:43	99		103		102		102			
CCV 480-629955/24	18:51	90		100		98		101			
CCB 480-629955/25	18:55	103		103		101		99			
CCVL 480-629955/26	18:59	103		103		103		100			
480-198813-1	19:26	97		101		99		100			
480-198813-2	19:30	96		104		100		105			
480-198813-3	19:34	92		99		98		103			
CCV 480-629955/36	19:38	90		100		95		96			
CCB 480-629955/37	19:41	104		104		102		98			
CCVL 480-629955/38	19:45	103		104		102		100			
480-198813-3 SD	19:49	100		104		101		105			
480-198813-3 PDS	19:53	89		98		96		101			
480-198813-3 MS	19:57	88		97		96		98			
480-198813-3 MSD	20:01	89		99		98		103			
480-198813-4	20:05	99		103		104		105			
480-198813-5	20:09	98		102		102		103			
480-198813-6	20:13	94		99		98		99			
480-198813-7	20:17	99		102		101		102			
480-198813-8	20:21	92		106		104		107			
CCV 480-629955/48	20:25	90		100		96		99			
CCB 480-629955/49	20:28	105		105		105		105			
CCVL 480-629955/50	20:32	104		104		105		102			
480-198813-9	20:36	97		102		98		98			
480-198813-10	20:40	93		100		99		100			
CCV 480-629955/56	21:11	90		100		96		99			
CCB 480-629955/57	21:15	103		103		102		98			
CCVL 480-629955/58	21:19	104		104		104		100			

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720 Analysis Batch No.: 630310

ICP Instrument ID: ICAP2 Start Date: 06/15/2022 End Date: 06/15/2022

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 377.433	Q	Element	Q
ICIS 480-630310/1	10:45										
ICV 480-630310/5	11:00	86		95		92		96			
ICB 480-630310/6	11:04	100		100		100		100			
ICVL 480-630310/7	11:08	99		99		99		101			
ICSA 480-630310/8	11:11	73		88		85		99			
ICSAB 480-630310/9	11:15	74		89		85		97			
CCV 480-630310/18	12:40	86		96		93		96			
CCB 480-630310/19	12:44	98		98		98		99			
CCVL 480-630310/20	12:48	99		99		99		100			
MB 480-629787/1-B	12:52	101		100		101		103			
LCS 480-629787/2-B	12:56	93		96		96		98			
480-198720-1	12:59	94		97		96		100			
480-198720-2	13:03	94		97		97		102			
480-198720-2 SD	13:07	97		97		97		100			
480-198720-2 PDS	13:11	91		96		95		101			
480-198720-2 MS	13:15	91		96		95		101			
480-198720-2 MSD	13:18	91		97		96		103			
480-198720-4	13:22	93		96		96		100			
CCV 480-630310/30	13:26	83		93		90		95			
CCB 480-630310/31	13:30	98		98		99		100			
CCVL 480-630310/32	13:34	98		98		99		100			
480-198813-2	13:38	89		94		93		97			
480-198813-8	13:42	91		95		96		101			
480-198813-10	13:45	88		94		94		98			
CCV 480-630310/36	14:12	85		95		92		98			
CCB 480-630310/37	14:16	98		98		98		101			
CCVL 480-630310/38	14:20	98		98		98		99			

Run File: I1060922B

Instrument: ICAP1

Analyst: BLH

Data Review: 6/10/22 BLH

Spikes Ids:6909430(W1), 6893463(W2),6902374(Sn), 6917474(Ag),6917504(Si), 6842082(TCLP), 6917511(S)
Pipette IDs: 3/22/22-(1-11)
Internal Standard:7026763

Seq#	Run File ID	Sample ID	Date / Time	Type
1	I1060922B	ICIS-7026764	6/9/2022 12:09:09PM	Standard
2	I1060922B	IC-7019501	6/9/2022 12:13:02PM	Standard
3	I1060922B	IC-7024752	6/9/2022 12:16:55PM	Standard
4	I1060922B	IC-7019492	6/9/2022 12:20:34PM	Standard
5	I1060922B	ICV-7017592	6/9/2022 12:24:13PM	QC
6	I1060922B	ICB-7026764	6/9/2022 12:27:54PM	QC
7	I1060922B	ICVL-7019501	6/9/2022 12:31:47PM	QC
8	I1060922B	ICSA-7017591	6/9/2022 12:35:40PM	QC
9	I1060922B	ICSAB-7019499	6/9/2022 12:39:37PM	QC
10	I1060922B	ICEX1	6/9/2022 12:43:31PM	Unknown
11	I1060922B	ICEX2	6/9/2022 12:47:33PM	Unknown
12	I1060922B	ICEX3	6/9/2022 12:51:29PM	Unknown
13	I1060922B	ICEX4	6/9/2022 12:55:32PM	Unknown
14	I1060922B	ICEX5	6/9/2022 12:59:23PM	Unknown
15	I1060922B	CCV-7024752	6/9/2022 1:03:16PM	QC
16	I1060922B	CCB-7026764	6/9/2022 1:06:56PM	QC
17	I1060922B	CCVL-7019501	6/9/2022 1:10:51PM	QC
18	I1060922B	IDL1	6/9/2022 1:14:43PM	Unknown
19	I1060922B	IDL2	6/9/2022 1:18:36PM	Unknown
20	I1060922B	IDL3	6/9/2022 1:22:29PM	Unknown
21	I1060922B	IDL4	6/9/2022 1:26:22PM	Unknown
22	I1060922B	IDL5	6/9/2022 1:30:15PM	Unknown
23	I1060922B	IDL6	6/9/2022 1:34:08PM	Unknown
24	I1060922B	IDL7	6/9/2022 1:38:02PM	Unknown
25	I1060922B	197950-1@10	6/9/2022 1:41:55PM	Unknown
26	I1060922B	180931-1@10	6/9/2022 1:45:52PM	Unknown
27	I1060922B	CCV-7024752	6/9/2022 1:49:51PM	QC
28	I1060922B	CCB-7026764	6/9/2022 1:53:32PM	QC
29	I1060922B	CCVL-7019501	6/9/2022 1:57:25PM	QC
30	I1060922B	620-4703-K-2-A@2	6/9/2022 2:01:17PM	Unknown
31	I1060922B	MB 480-628878/1-A	6/9/2022 2:05:22PM	Unknown
32	I1060922B	LCS 480-628878/2-A	6/9/2022 2:09:16PM	Unknown
33	I1060922B	480-198490-B-1-A	6/9/2022 2:12:55PM	Unknown
34	I1060922B	480-198490-B-2-A	6/9/2022 2:16:47PM	Unknown
35	I1060922B	480-198490-B-2-Asd@5	6/9/2022 2:20:37PM	Unknown
36	I1060922B	480-198490-B-2-APDS	6/9/2022 2:24:28PM	Unknown
37	I1060922B	480-198490-B-2-B MS	6/9/2022 2:28:14PM	Unknown
38	I1060922B	480-198490-B-2-C MSD	6/9/2022 2:31:59PM	Unknown
39	I1060922B	CCV-7024752	6/9/2022 2:35:46PM	QC
40	I1060922B	CCB-7026764	6/9/2022 2:39:26PM	QC
41	I1060922B	CCVL-7019501	6/9/2022 2:43:20PM	QC
42	I1060922B	480-198490-B-3-A	6/9/2022 2:47:12PM	Unknown

43	I1060922B	480-198490-B-4-A	6/9/2022	2:51:01PM	Unknown
44	I1060922B	480-198490-B-5-A	6/9/2022	2:54:53PM	Unknown
45	I1060922B	480-198490-B-6-A	6/9/2022	2:58:42PM	Unknown
46	I1060922B	480-198490-B-7-A	6/9/2022	3:02:32PM	Unknown
47	I1060922B	480-198490-B-8-A	6/9/2022	3:06:21PM	Unknown
48	I1060922B	480-198490-B-9-A	6/9/2022	3:10:10PM	Unknown
49	I1060922B	480-198490-B-10-A	6/9/2022	3:14:00PM	Unknown
50	I1060922B	480-198490-B-11-A	6/9/2022	3:17:51PM	Unknown
51	I1060922B	CCV-7024752	6/9/2022	3:21:41PM	QC
52	I1060922B	CCB-7026764	6/9/2022	3:25:21PM	QC
53	I1060922B	CCVL-7019501	6/9/2022	3:29:15PM	QC
54	I1060922B	480-198542-B-1-A	6/9/2022	3:33:08PM	Unknown
55	I1060922B	480-198542-B-2-A	6/9/2022	3:36:59PM	Unknown
56	I1060922B	480-198542-B-3-A	6/9/2022	3:40:49PM	Unknown
57	I1060922B	480-198542-B-4-A	6/9/2022	3:44:38PM	Unknown
58	I1060922B	480-198542-B-5-A	6/9/2022	3:48:29PM	Unknown
59	I1060922B	480-198542-B-6-A	6/9/2022	3:52:18PM	Unknown
60	I1060922B	480-198542-B-7-A	6/9/2022	3:56:09PM	Unknown
61	I1060922B	480-198542-B-8-A	6/9/2022	3:59:59PM	Unknown
62	I1060922B	480-198542-B-9-A	6/9/2022	4:03:55PM	Unknown
63	I1060922B	CCV-7024752	6/9/2022	4:07:46PM	QC
64	I1060922B	CCB-7026764	6/9/2022	4:11:26PM	QC
65	I1060922B	CCVL-7019501	6/9/2022	4:15:20PM	QC
66	I1060922B	MB 480-628589/1-A	6/9/2022	4:19:12PM	Unknown
67	I1060922B	LCS 480-628589/2-A	6/9/2022	4:23:05PM	Unknown
68	I1060922B	480-198482-E-1-B	6/9/2022	4:26:46PM	Unknown
69	I1060922B	198437-3 sol	6/9/2022	4:30:32PM	Unknown
70	I1060922B	198437-6 sol	6/9/2022	4:34:27PM	Unknown
71	I1060922B	MB 480-628736/1-A	6/9/2022	4:38:17PM	Unknown
72	I1060922B	LCS 480-628736/2-A	6/9/2022	4:42:10PM	Unknown
73	I1060922B	480-198620-D-1-A	6/9/2022	4:45:51PM	Unknown
74	I1060922B	480-198620-D-1-Asd@5	6/9/2022	4:49:39PM	Unknown
75	I1060922B	CCV-7024752	6/9/2022	4:53:30PM	QC
76	I1060922B	CCB-7026764	6/9/2022	4:57:10PM	QC
77	I1060922B	CCVL-7019501	6/9/2022	5:01:04PM	QC
78	I1060922B	480-198620-D-1-APDS	6/9/2022	5:04:57PM	Unknown
79	I1060922B	480-198620-D-1-B MS	6/9/2022	5:08:42PM	Unknown
80	I1060922B	480-198620-D-1-C MSD	6/9/2022	5:12:27PM	Unknown
81	I1060922B	480-198620-B-2-A	6/9/2022	5:16:15PM	Unknown
82	I1060922B	480-198603-C-1-C	6/9/2022	5:20:04PM	Unknown
83	I1060922B	480-198605-B-1-C	6/9/2022	5:23:53PM	Unknown
84	I1060922B	480-198605-B-2-C	6/9/2022	5:27:41PM	Unknown
85	I1060922B	480-198736-C-1-A	6/9/2022	5:31:31PM	Unknown
86	I1060922B	480-198741-B-1-A	6/9/2022	5:35:18PM	Unknown
87	I1060922B	CCV-7024752	6/9/2022	5:39:14PM	QC
88	I1060922B	CCB-7026764	6/9/2022	5:42:54PM	QC
89	I1060922B	CCVL-7019501	6/9/2022	5:46:49PM	QC
90	I1060922B	480-198741-B-1-B MS	6/9/2022	5:50:41PM	Unknown
91	I1060922B	480-198741-B-1-C MSD	6/9/2022	5:54:33PM	Unknown
92	I1060922B	480-198741-B-2-A	6/9/2022	5:58:25PM	Unknown
93	I1060922B	480-198741-B-3-A	6/9/2022	6:02:16PM	Unknown
94	I1060922B	480-198743-C-1-A	6/9/2022	6:06:14PM	Unknown

95	I1060922B	480-198743-C-5-A	6/9/2022	6:10:02PM	Unknown
96	I1060922B	480-198743-C-6-A	6/9/2022	6:13:53PM	Unknown
97	I1060922B	480-198705-H-1-A	6/9/2022	6:17:45PM	Unknown
98	I1060922B	480-198562-F-1-A	6/9/2022	6:21:39PM	Unknown
99	I1060922B	CCV-7024752	6/9/2022	6:25:43PM	QC
100	I1060922B	CCB-7026764	6/9/2022	6:29:23PM	QC
101	I1060922B	CCVL-7019501	6/9/2022	6:33:18PM	QC
102	I1060922B	480-198562-F-3-A	6/9/2022	6:37:10PM	Unknown
103	I1060922B	MB 480-629215/1-A	6/9/2022	6:41:11PM	Unknown
104	I1060922B	LCSSRM 480-629215/2-	6/9/2022	6:45:04PM	Unknown
105	I1060922B	480-198663-B-1-A	6/9/2022	6:48:44PM	Unknown
106	I1060922B	480-198658-A-1-A	6/9/2022	6:52:48PM	Unknown
107	I1060922B	480-198658-A-4-A	6/9/2022	6:56:34PM	Unknown
108	I1060922B	480-198658-A-4-Asd@5	6/9/2022	7:00:27PM	Unknown
109	I1060922B	480-198658-A-4-A PDS	6/9/2022	7:04:14PM	Unknown
110	I1060922B	480-198658-A-4-B MS	6/9/2022	7:08:01PM	Unknown
111	I1060922B	CCV-7024752	6/9/2022	7:11:50PM	QC
112	I1060922B	CCB-7026764	6/9/2022	7:15:31PM	QC
113	I1060922B	CCVL-7019501	6/9/2022	7:19:25PM	QC
114	I1060922B	480-198658-A-4-C MSD	6/9/2022	7:23:17PM	Unknown
115	I1060922B	480-198658-A-5-A	6/9/2022	7:27:05PM	Unknown
116	I1060922B	480-198658-A-8-A	6/9/2022	7:30:51PM	Unknown
117	I1060922B	480-198658-A-9-A	6/9/2022	7:34:43PM	Unknown
118	I1060922B	480-198658-A-12-A	6/9/2022	7:38:30PM	Unknown
119	I1060922B	480-198658-A-15-A	6/9/2022	7:42:18PM	Unknown
120	I1060922B	480-198658-A-17-A	6/9/2022	7:46:10PM	Unknown
121	I1060922B	480-198658-A-19-A	6/9/2022	7:49:57PM	Unknown
122	I1060922B	LB 480-629221/1-B	6/9/2022	7:53:49PM	Unknown
123	I1060922B	CCV-7024752	6/9/2022	7:57:49PM	QC
124	I1060922B	CCB-7026764	6/9/2022	8:01:29PM	QC
125	I1060922B	CCVL-7019501	6/9/2022	8:05:23PM	QC
126	I1060922B	MB 480-629399/2-A	6/9/2022	8:09:16PM	Unknown
127	I1060922B	LCS 480-629399/3-A	6/9/2022	8:13:09PM	Unknown
128	I1060922B	480-198744-A-1-B	6/9/2022	8:17:02PM	Unknown
129	I1060922B	480-198746-A-1-B	6/9/2022	8:20:56PM	Unknown
130	I1060922B	480-198746-A-1-Bsd@5	6/9/2022	8:24:58PM	Unknown
131	I1060922B	480-198746-A-1-BPDS	6/9/2022	8:28:55PM	Unknown
132	I1060922B	480-198746-A-1-C MS	6/9/2022	8:32:47PM	Unknown
133	I1060922B	480-198746-A-1-D MSD	6/9/2022	8:36:39PM	Unknown
134	I1060922B	480-198746-A-3-B	6/9/2022	8:40:32PM	Unknown
135	I1060922B	CCV-7024752	6/9/2022	8:44:35PM	QC
136	I1060922B	CCB-7026764	6/9/2022	8:48:15PM	QC
137	I1060922B	CCVL-7019501	6/9/2022	8:52:09PM	QC
138	I1060922B	480-198746-A-5-B	6/9/2022	8:56:01PM	Unknown
139	I1060922B	480-198746-A-7-B	6/9/2022	9:00:02PM	Unknown
140	I1060922B	480-198746-A-9-B	6/9/2022	9:04:05PM	Unknown
141	I1060922B	480-198746-A-11-B	6/9/2022	9:08:04PM	Unknown
142	I1060922B	480-198746-A-13-B	6/9/2022	9:12:05PM	Unknown
143	I1060922B	480-198746-A-15-B	6/9/2022	9:16:05PM	Unknown
144	I1060922B	480-198746-A-17-B	6/9/2022	9:20:07PM	Unknown
145	I1060922B	480-198746-A-19-B	6/9/2022	9:24:08PM	Unknown
146	I1060922B	480-198746-A-21-B	6/9/2022	9:28:10PM	Unknown

147	I1060922B	CCV-7024752	6/9/2022	9:32:12PM	QC
148	I1060922B	CCB-7026764	6/9/2022	9:35:52PM	QC
149	I1060922B	CCVL-7019501	6/9/2022	9:39:45PM	QC
150	I1060922B	480-198746-A-23-B	6/9/2022	9:43:37PM	Unknown
151	I1060922B	480-198746-A-25-B	6/9/2022	9:47:39PM	Unknown
152	I1060922B	480-198746-A-27-B	6/9/2022	9:51:41PM	Unknown
153	I1060922B	480-198746-A-29-B	6/9/2022	9:55:43PM	Unknown
154	I1060922B	480-198746-A-31-B	6/9/2022	9:59:48PM	Unknown
155	I1060922B	480-198746-A-33-B	6/9/2022	10:03:51PM	Unknown
156	I1060922B	MB 480-629431/1-A	6/9/2022	10:07:52PM	Unknown
157	I1060922B	LCS 480-629431/2-A	6/9/2022	10:11:46PM	Unknown
158	I1060922B	LCSD 480-629431/3-A	6/9/2022	10:15:26PM	Unknown
159	I1060922B	CCV-7024752	6/9/2022	10:19:08PM	QC
160	I1060922B	CCB-7026764	6/9/2022	10:22:48PM	QC
161	I1060922B	CCVL-7019501	6/9/2022	10:26:43PM	QC
162	I1060922B	620-4843-I-1-D	6/9/2022	10:30:35PM	Unknown
163	I1060922B	620-4843-I-2-D	6/9/2022	10:34:25PM	Unknown
164	I1060922B	620-4843-I-3-D	6/9/2022	10:38:12PM	Unknown
165	I1060922B	620-4843-I-4-D	6/9/2022	10:42:01PM	Unknown
166	I1060922B	620-4843-I-5-D	6/9/2022	10:45:50PM	Unknown
167	I1060922B	620-4843-I-5-Dsd@5	6/9/2022	10:49:36PM	Unknown
168	I1060922B	620-4843-I-5-DPDS	6/9/2022	10:53:25PM	Unknown
169	I1060922B	MB 480-629434/1-A	6/9/2022	10:57:09PM	Unknown
170	I1060922B	LCS 480-629434/2-A	6/9/2022	11:01:03PM	Unknown
171	I1060922B	CCV-7024752	6/9/2022	11:04:44PM	QC
172	I1060922B	CCB-7026764	6/9/2022	11:08:25PM	QC
173	I1060922B	CCVL-7019501	6/9/2022	11:12:19PM	QC
174	I1060922B	480-198540-G-1-B	6/9/2022	11:16:11PM	Unknown
175	I1060922B	480-198540-G-1-Bsd@5	6/9/2022	11:20:05PM	Unknown
176	I1060922B	480-198540-G-1-BPDS	6/9/2022	11:23:57PM	Unknown
177	I1060922B	480-198540-G-1-C MS	6/9/2022	11:27:43PM	Unknown
178	I1060922B	480-198540-G-1-D MSD	6/9/2022	11:31:30PM	Unknown
179	I1060922B	MB 480-629422/1-A	6/9/2022	11:35:16PM	Unknown
180	I1060922B	LCS 480-629422/2-A	6/9/2022	11:39:09PM	Unknown
181	I1060922B	480-198760-B-1-A	6/9/2022	11:42:49PM	Unknown
182	I1060922B	480-198760-B-2-A	6/9/2022	11:46:41PM	Unknown
183	I1060922B	CCV-7024752	6/9/2022	11:50:32PM	QC
184	I1060922B	CCB-7026764	6/9/2022	11:54:12PM	QC
185	I1060922B	CCVL-7019501	6/9/2022	11:58:06PM	QC
186	I1060922B	480-198760-B-2-Asd@5	6/10/2022	12:01:58AM	Unknown
187	I1060922B	480-198760-B-2-APDS	6/10/2022	12:05:49AM	Unknown
188	I1060922B	480-198760-B-2-B MS	6/10/2022	12:09:36AM	Unknown
189	I1060922B	480-198760-B-2-C MSD	6/10/2022	12:13:22AM	Unknown
190	I1060922B	480-198760-B-3-A	6/10/2022	12:17:08AM	Unknown
191	I1060922B	480-198760-B-4-A	6/10/2022	12:20:59AM	Unknown
192	I1060922B	480-198760-B-5-A	6/10/2022	12:24:49AM	Unknown
193	I1060922B	480-198760-B-6-A	6/10/2022	12:28:41AM	Unknown
194	I1060922B	480-198760-B-7-A	6/10/2022	12:32:36AM	Unknown
195	I1060922B	CCV-7024752	6/10/2022	12:36:26AM	QC
196	I1060922B	CCB-7026764	6/10/2022	12:40:07AM	QC
197	I1060922B	CCVL-7019501	6/10/2022	12:44:01AM	QC
198	I1060922B	480-198760-B-8-A	6/10/2022	12:47:53AM	Unknown

199	I1060922B	480-198760-B-9-A	6/10/2022	12:51:43AM	Unknown
200	I1060922B	480-198760-B-10-A	6/10/2022	12:55:32AM	Unknown
201	I1060922B	480-198760-B-11-A	6/10/2022	12:59:22AM	Unknown
202	I1060922B	480-198760-B-12-A	6/10/2022	1:03:12AM	Unknown
203	I1060922B	480-198760-B-13-A	6/10/2022	1:07:02AM	Unknown
204	I1060922B	480-198760-B-14-A	6/10/2022	1:10:54AM	Unknown
205	I1060922B	480-198760-B-15-A	6/10/2022	1:14:44AM	Unknown
206	I1060922B	MB 480-629262/1-A	6/10/2022	1:18:33AM	Unknown
207	I1060922B	CCV-7024752	6/10/2022	1:22:27AM	QC
208	I1060922B	CCB-7026764	6/10/2022	1:26:07AM	QC
209	I1060922B	CCVL-7019501	6/10/2022	1:30:01AM	QC
210	I1060922B	LCS 480-629262/2-A	6/10/2022	1:33:54AM	Unknown
211	I1060922B	480-198727-D-1-A	6/10/2022	1:37:34AM	Unknown
212	I1060922B	480-198727-D-2-A	6/10/2022	1:41:24AM	Unknown
213	I1060922B	480-198727-D-3-A	6/10/2022	1:45:14AM	Unknown
214	I1060922B	480-198727-D-3-Asd@5	6/10/2022	1:49:04AM	Unknown
215	I1060922B	480-198727-D-3-APDS	6/10/2022	1:52:55AM	Unknown
216	I1060922B	480-198727-D-3-B MS	6/10/2022	1:56:41AM	Unknown
217	I1060922B	480-198727-D-3-C MSD	6/10/2022	2:00:28AM	Unknown
218	I1060922B	480-198727-D-4-A	6/10/2022	2:04:15AM	Unknown
219	I1060922B	CCV-7024752	6/10/2022	2:08:05AM	QC
220	I1060922B	CCB-7026764	6/10/2022	2:11:45AM	QC
221	I1060922B	CCVL-7019501	6/10/2022	2:15:39AM	QC
222	I1060922B	480-198727-D-5-A	6/10/2022	2:19:31AM	Unknown
223	I1060922B	480-198727-D-6-A	6/10/2022	2:23:22AM	Unknown
224	I1060922B	480-198760-A-15-A	6/10/2022	2:27:12AM	Unknown
225	I1060922B	480-198723-D-1-A	6/10/2022	2:31:00AM	Unknown
226	I1060922B	480-198719-E-1-A	6/10/2022	2:34:51AM	Unknown
227	I1060922B	480-198720-D-1-A	6/10/2022	2:38:41AM	Unknown
228	I1060922B	480-198720-D-2-A	6/10/2022	2:42:39AM	Unknown
229	I1060922B	480-198720-D-3-A	6/10/2022	2:46:27AM	Unknown
230	I1060922B	480-198720-D-4-A	6/10/2022	2:50:16AM	Unknown
231	I1060922B	CCV-7024752	6/10/2022	2:54:05AM	QC
232	I1060922B	CCB-7026764	6/10/2022	2:57:45AM	QC
233	I1060922B	CCVL-7019501	6/10/2022	3:01:40AM	QC
234	I1060922B	MB 480-629208/1-A	6/10/2022	3:05:32AM	Unknown
235	I1060922B	LCS 480-629208/2-A	6/10/2022	3:09:25AM	Unknown
236	I1060922B	LCSD 480-629208/3-A	6/10/2022	3:13:07AM	Unknown
237	I1060922B	480-198754-A-1-A@100	6/10/2022	3:16:47AM	Unknown
238	I1060922B	198754-A-1-Asd@500	6/10/2022	3:20:44AM	Unknown
239	I1060922B	198754-A-1-APDS@100	6/10/2022	3:24:36AM	Unknown
240	I1060922B	RINSE	6/10/2022	3:28:23AM	Unknown
241	I1060922B	RINSE	6/10/2022	3:32:17AM	Unknown
242	I1060922B	RINSE	6/10/2022	3:36:10AM	Unknown
243	I1060922B	CCV-7024752	6/10/2022	3:40:04AM	QC
244	I1060922B	CCB-7026764	6/10/2022	3:43:45AM	QC
245	I1060922B	CCVL-7019501	6/10/2022	3:47:39AM	QC
246	I1060922B	CCV-7024752	6/10/2022	3:51:33AM	QC
247	I1060922B	CCB-7026764	6/10/2022	3:55:13AM	QC

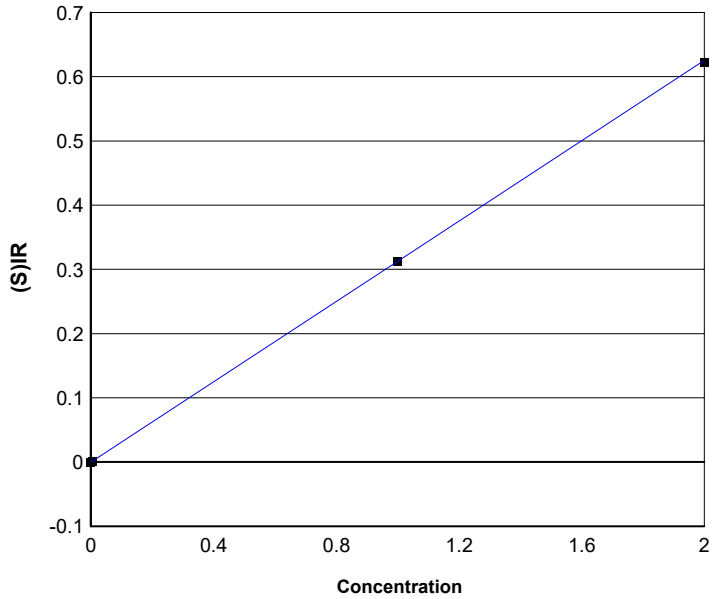
I1060922B

Author: BLH

Published: 6/10/2022 9:34:33AM

Instrument Name: ICAP1 Serial Number: 20094603

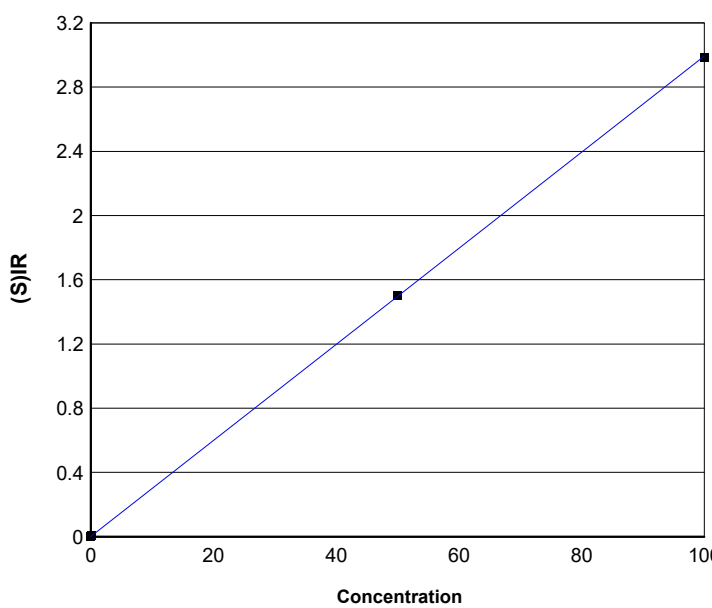
Method Name: ICAP1 Feb 2022 (109)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00013544
A1 (Gain):	0.31282
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

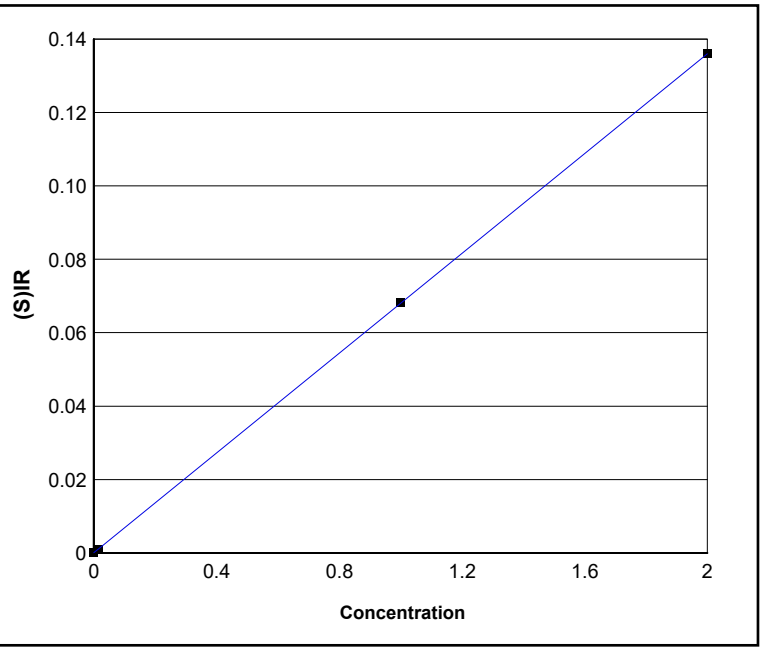
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000006449	0.0000006449	0.00000	-0.00013524	0.00011297	1
IC-7019501	0.0060000	0.0053472	-0.00065276	-10.879	0.0015374	0.000039214	1
IC-7024752	1.0000	1.0020	0.0019616	0.19616	0.31213	0.00020133	1
IC-7019492	2.0000	1.9987	-0.0013063	-0.065315	0.62275	0.00039420	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0014444
A1 (Gain):	0.029912
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

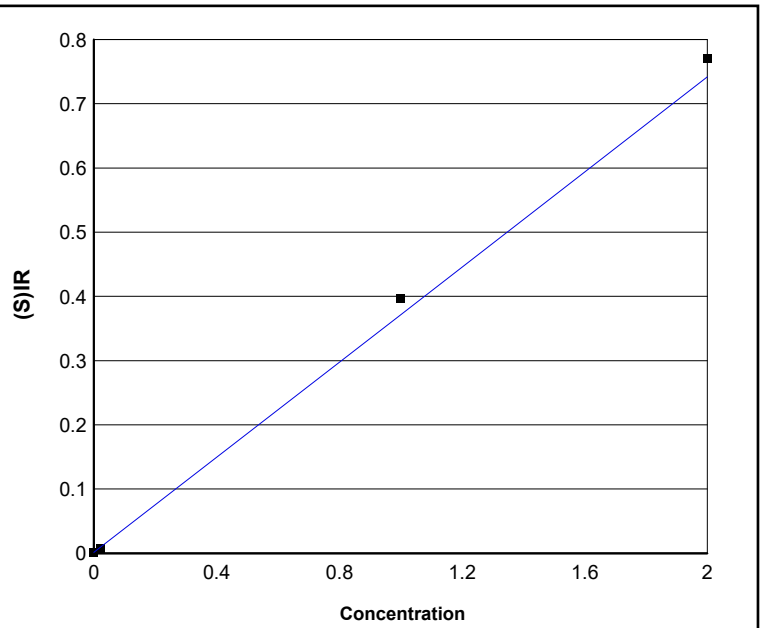
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.000026274	0.000026274	0.00000	0.0014452	0.000020421	1
IC-7019501	0.20000	0.17316	-0.026837	-13.418	0.0066241	0.00025343	1
IC-7024752	50.000	50.254	0.25441	0.50882	1.5047	0.00021742	1
IC-7019492	100.00	99.772	-0.22757	-0.22757	2.9859	0.0032365	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99987
A0 (Offset):	0.000050717
A1 (Gain):	0.067968
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

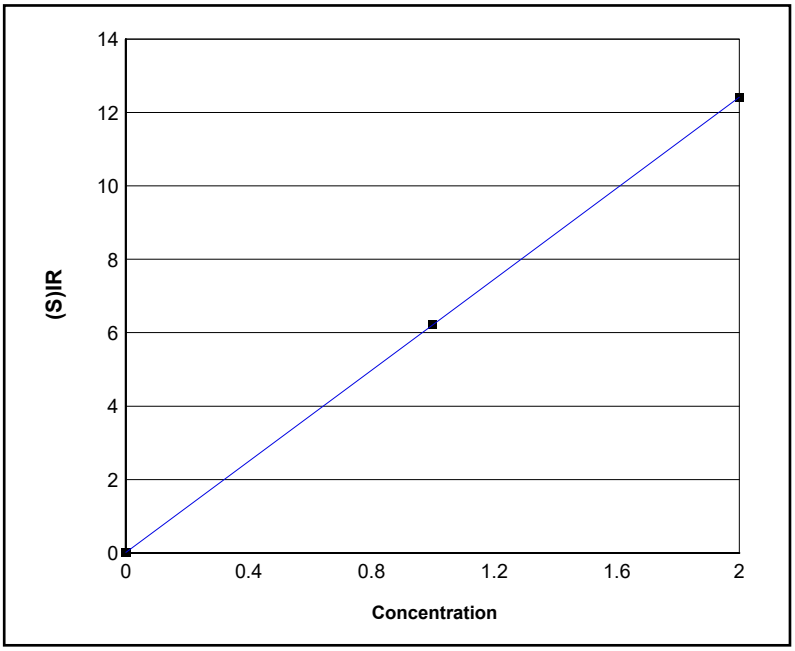
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000032824	0.0000032824	0.00000	0.000050940	0.0000096466	1
IC-7019501	0.015000	0.011663	-0.0033366	-22.244	0.00084357	0.00013411	1
IC-7024752	1.0000	1.0039	0.0038970	0.38970	0.068313	0.00025869	1
IC-7019492	2.0000	1.9994	-0.00056149	-0.028074	0.13601	0.00025850	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99988
A0 (Offset):	0.0012503
A1 (Gain):	0.37018
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

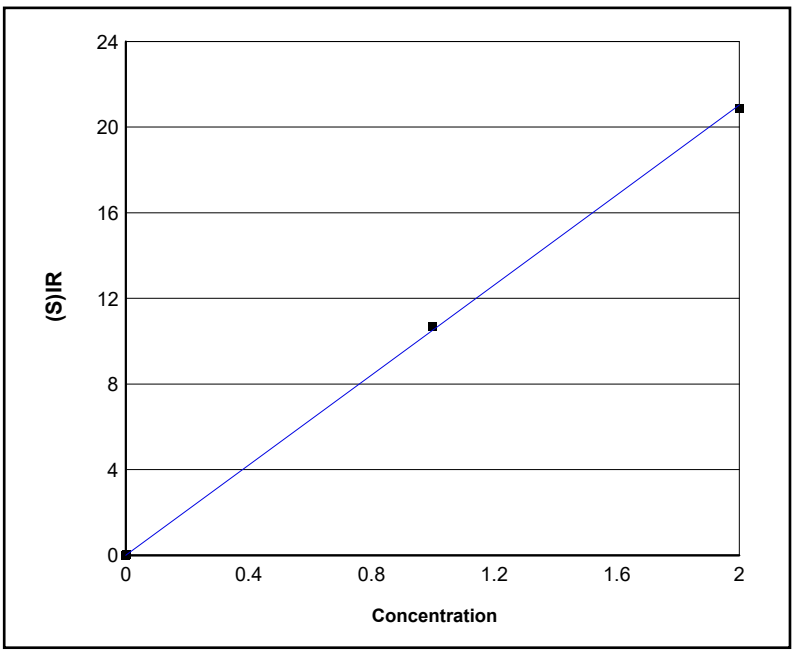
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000011516	0.0000011516	0.00000	0.0012507	0.00022943	1
IC-7019501	0.020000	0.018619	-0.0013810	-6.9049	0.0083235	0.000038761	1
IC-7024752	1.0000	1.0216	0.021594	2.1594	0.39751	0.00034863	1
IC-7019492	2.0000	1.9798	-0.020245	-1.0123	0.77028	0.00041935	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.011644
A1 (Gain):	6.2019
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

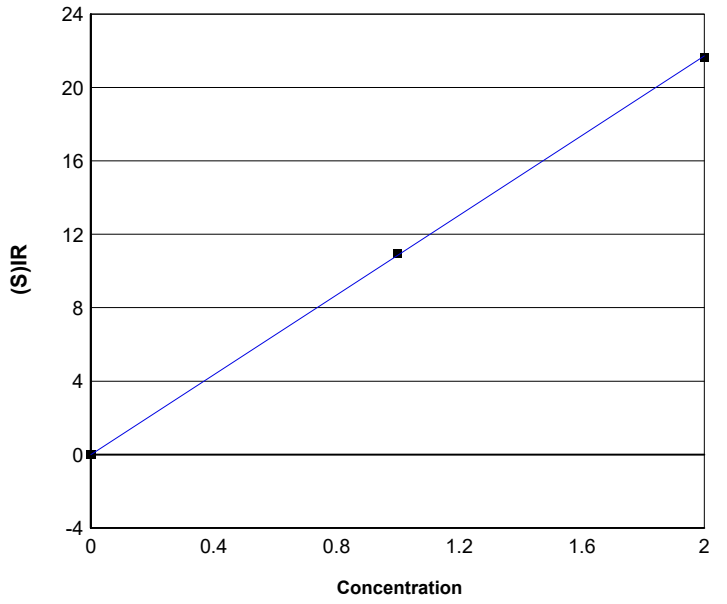
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000003594	0.0000003594	0.00000	0.011646	0.00062828	1
IC-7019501	0.0020000	0.0016394	-0.00036056	-18.028	0.021812	0.00044570	1
IC-7024752	1.0000	1.0008	0.00081112	0.081112	6.2186	0.0011995	1
IC-7019492	2.0000	1.9995	-0.00045056	-0.022528	12.413	0.013486	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.0022022
A1 (Gain):	10.514
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

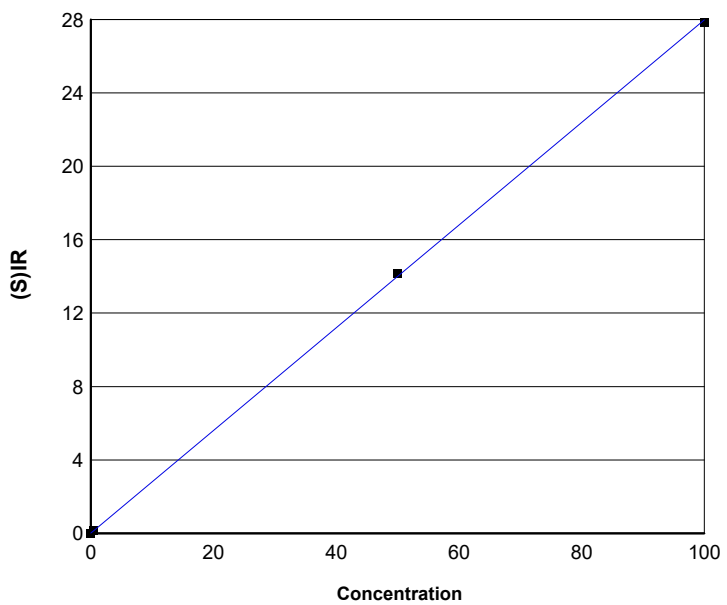
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000001323	-0.0000001323	0.00000	0.0022008	0.00039805	1
IC-7019501	0.0020000	0.0021162	0.00011620	5.8098	0.024452	0.000052626	1
IC-7024752	1.0000	1.0162	0.016201	1.6201	10.687	0.028107	1
IC-7019492	2.0000	1.9837	-0.016317	-0.81587	20.859	0.094408	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.0017376
A1 (Gain):	10.862
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

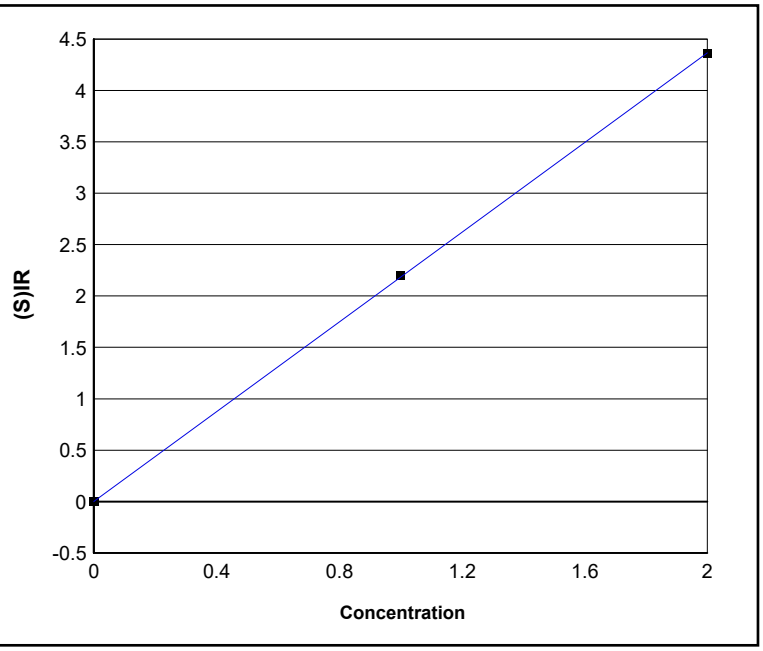
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000718	-0.0000000718	0.00000	-0.0017384	0.00032352	1
IC-7019501	0.0020000	0.0020654	0.000065433	3.2717	0.020696	0.00031331	1
IC-7024752	1.0000	1.0064	0.0064280	0.64280	10.930	0.0026197	1
IC-7019492	2.0000	1.9935	-0.0064934	-0.32467	21.651	0.031418	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.014149
A1 (Gain):	0.27975
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

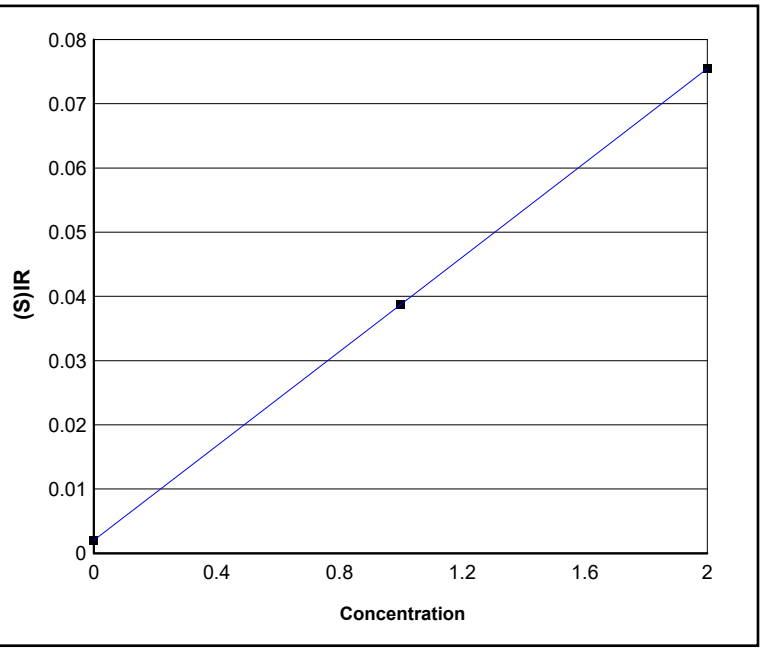
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000093523	-0.0000093523	0.00000	0.014147	0.000067032	1
IC-7019501	0.50000	0.50652	0.0065180	1.3036	0.15585	0.00094846	1
IC-7024752	50.000	50.573	0.57339	1.1468	14.162	0.0053401	1
IC-7019492	100.00	99.420	-0.57991	-0.57991	27.827	0.045158	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00025016
A1 (Gain):	2.1834
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

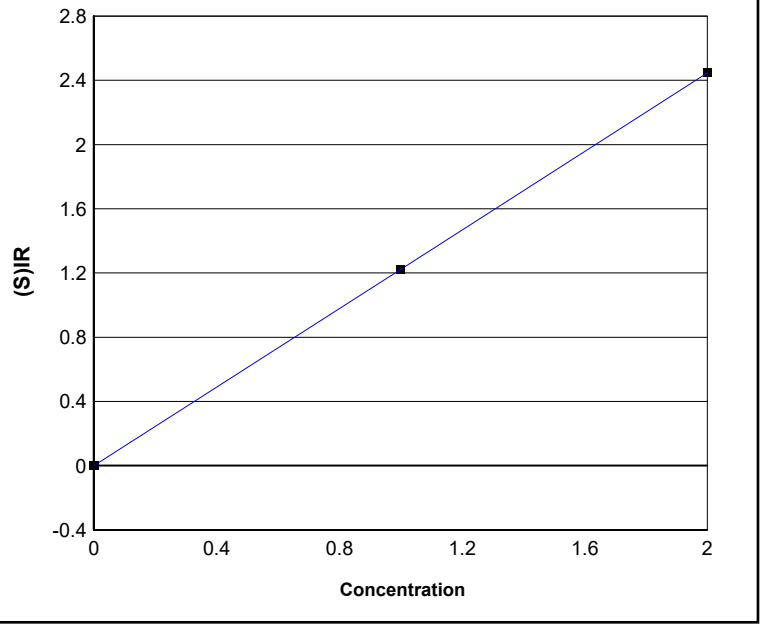
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000070	0.0000000070	0.00000	-0.00025015	0.0000061963	1
IC-7019501	0.0020000	0.0019858	-0.000014160	-0.70800	0.0041452	0.000090582	1
IC-7024752	1.0000	1.0072	0.0071925	0.71925	2.2033	0.00072659	1
IC-7019492	2.0000	1.9928	-0.0071782	-0.35891	4.3597	0.0020295	1



Element Name:	Ce
Element Wavelength:	Ce 404.076 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	1.0000
A0 (Offset):	0.002019
A1 (Gain):	0.03672
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

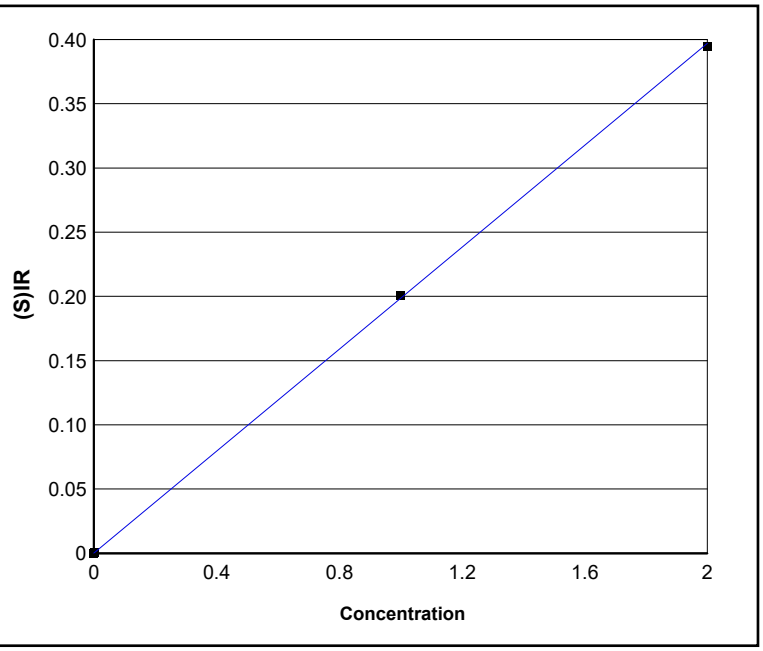
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000	0.0000001779	0.0000001779	0.0000	0.002020	0.0005893	1
IC-7019492	2.000	2.000	0.0003557	0.01779	0.07548	0.0005324	1
IC-7024752	1.000	0.9996	-0.0003557	-0.03557	0.03873	0.0003409	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00018030
A1 (Gain):	1.2231
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

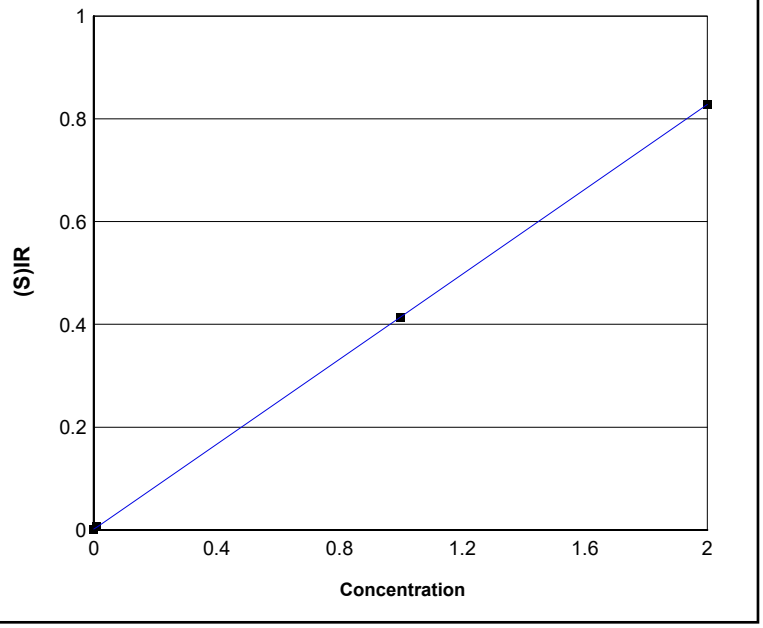
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000001153	0.0000001153	0.00000	-0.00018016	0.000027394	1
IC-7019501	0.0040000	0.0038877	-0.00011233	-2.8083	0.0045724	0.000039676	1
IC-7024752	1.0000	0.99842	-0.0015759	-0.15759	1.2217	0.0021006	1
IC-7019492	2.0000	2.0017	0.0016881	0.084406	2.4496	0.00046913	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.000094581
A1 (Gain):	0.19843
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

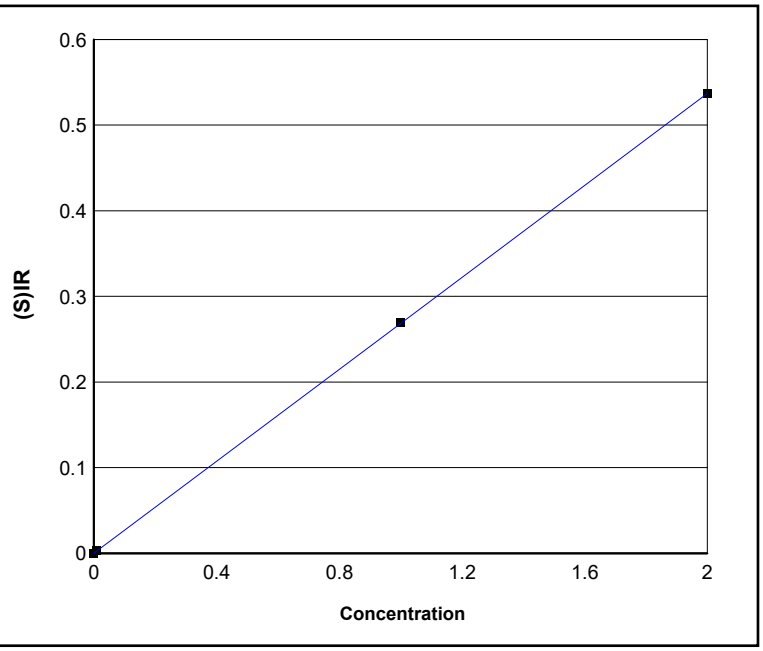
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000002151	0.0000002151	0.00000	0.000094624	0.000033637	1
IC-7019501	0.0040000	0.0037635	-0.00023653	-5.9133	0.00084144	0.000015374	1
IC-7024752	1.0000	1.0105	0.010477	1.0477	0.20059	0.00047154	1
IC-7019492	2.0000	1.9898	-0.010240	-0.51200	0.39489	0.00071618	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0015408
A1 (Gain):	0.41324
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

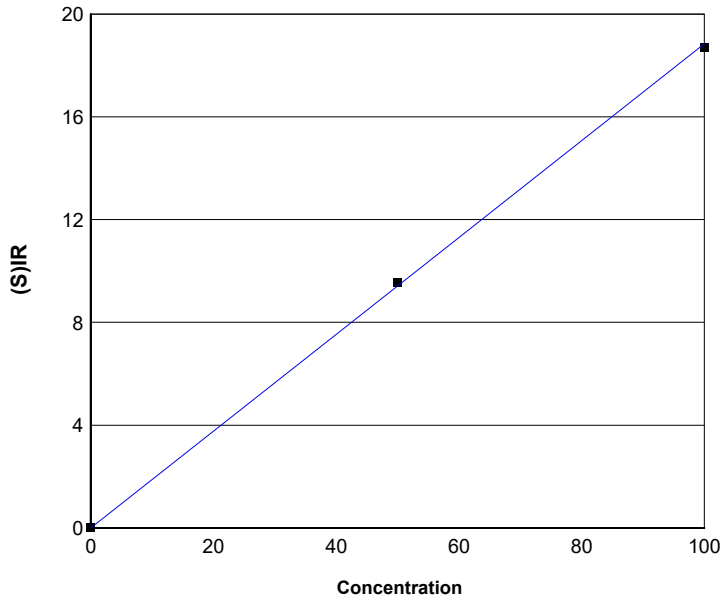
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000007448	-0.0000007448	0.00000	0.0015404	0.000053808	1
IC-7019501	0.010000	0.010755	0.00075469	7.5469	0.0059850	0.000033543	1
IC-7024752	1.0000	0.99877	-0.0012272	-0.12272	0.41427	0.00045388	1
IC-7019492	2.0000	2.0005	0.00047253	0.023626	0.82821	0.00035794	1



Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00011683
A1 (Gain):	0.26846
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

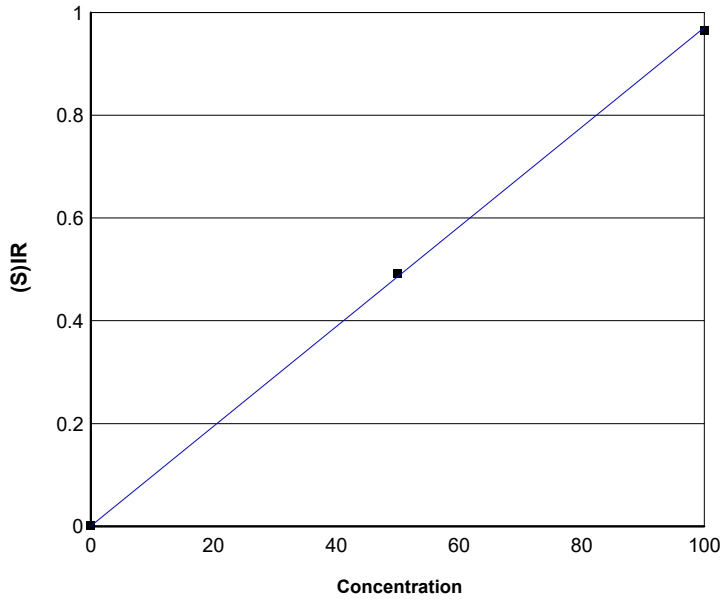
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000007880	-0.0000007880	0.00000	0.00011661	0.00020600	1
IC-7019501	0.010000	0.010787	0.00078685	7.8685	0.0030159	0.000021466	1
IC-7024752	1.0000	1.0010	0.0010245	0.10245	0.26917	0.00041900	1
IC-7019492	2.0000	1.9982	-0.0018114	-0.090570	0.53720	0.000071266	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.00071982
A1 (Gain):	0.18844
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

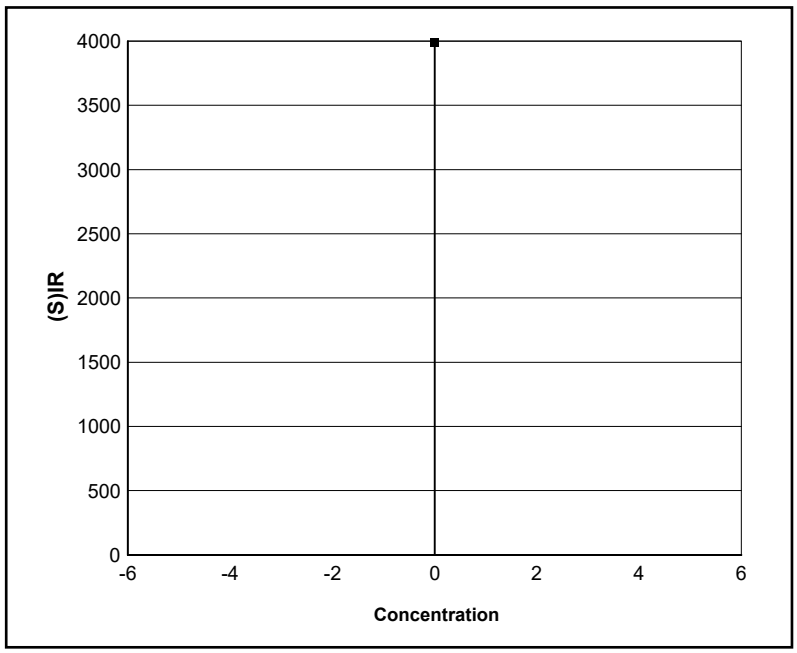
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000015362	-0.0000015362	0.00000	0.00071953	0.00019521	1
IC-7019501	0.050000	0.051189	0.0011892	2.3783	0.010366	0.00039034	1
IC-7024752	50.025	50.721	0.69604	1.3914	9.5585	0.0052379	1
IC-7019492	100.00	99.303	-0.69723	-0.69723	18.713	0.020517	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99987
A0 (Offset):	0.00062051
A1 (Gain):	0.0097044
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

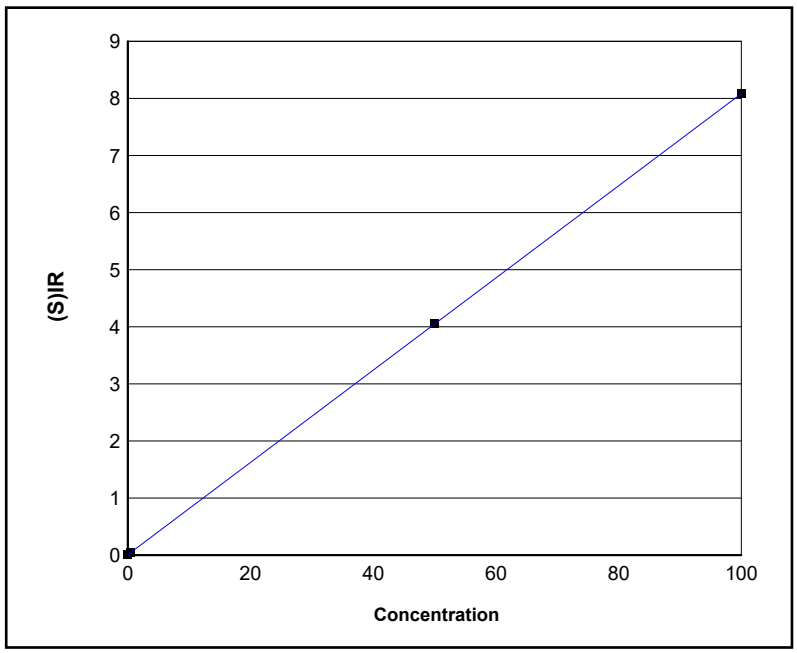
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	-0.000035548	-0.000035548	0.00000	0.00062017	0.00080782	1
IC-7019501	0.050000	0.085220	0.035220	70.440	0.0014475	0.00075617	1
IC-7024752	50.025	50.717	0.69211	1.3835	0.49280	0.00077429	1
IC-7019492	100.00	99.273	-0.72733	-0.72733	0.96400	0.0016133	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:12:59PM
Date of Fit:	6/9/2022 12:12:59PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

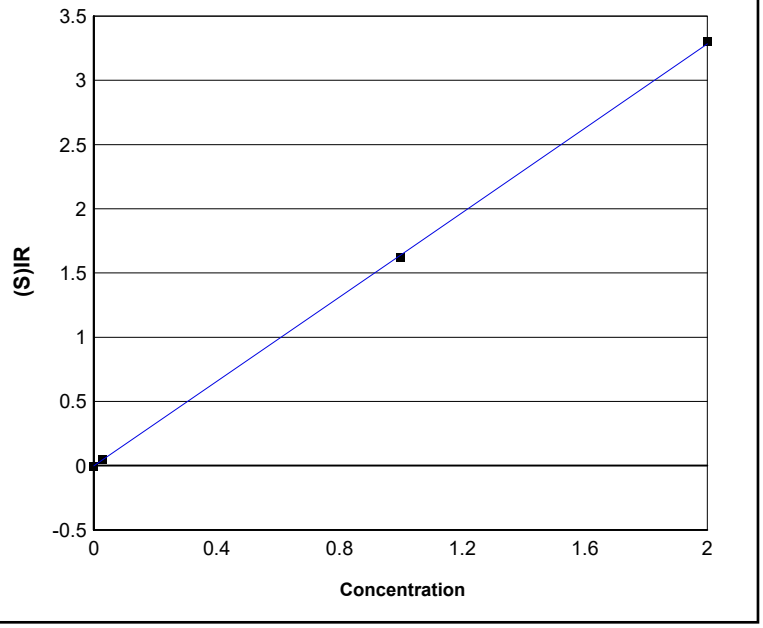
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000			0.0000	3,988	1.495	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.010543
A1 (Gain):	0.080737
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

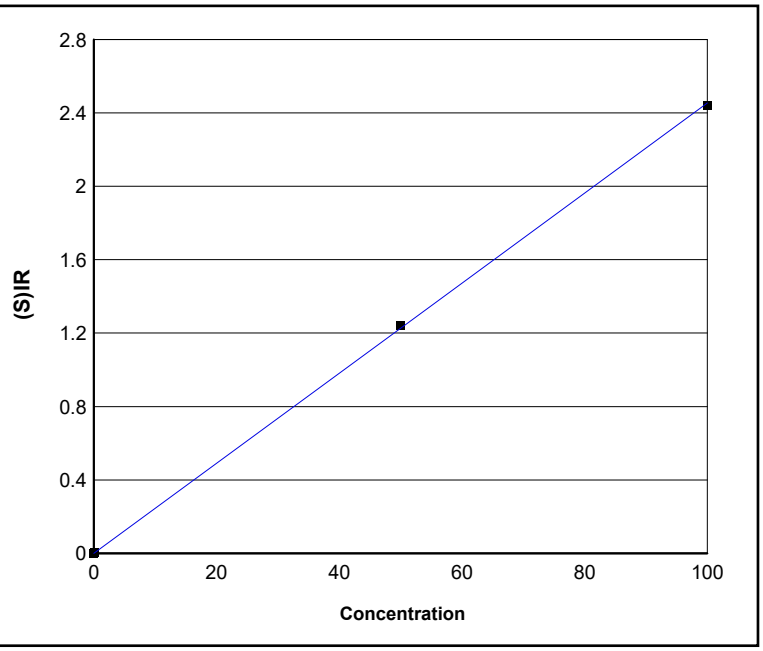
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.000018587	0.000018587	0.00000	0.010545	0.0025551	1
IC-7019501	0.50000	0.48088	-0.019115	-3.8230	0.049369	0.000045962	1
IC-7024752	50.000	50.086	0.086461	0.17292	4.0544	0.0037332	1
IC-7019492	100.00	99.933	-0.067346	-0.067346	8.0788	0.014807	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.0014601
A1 (Gain):	1.6422
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

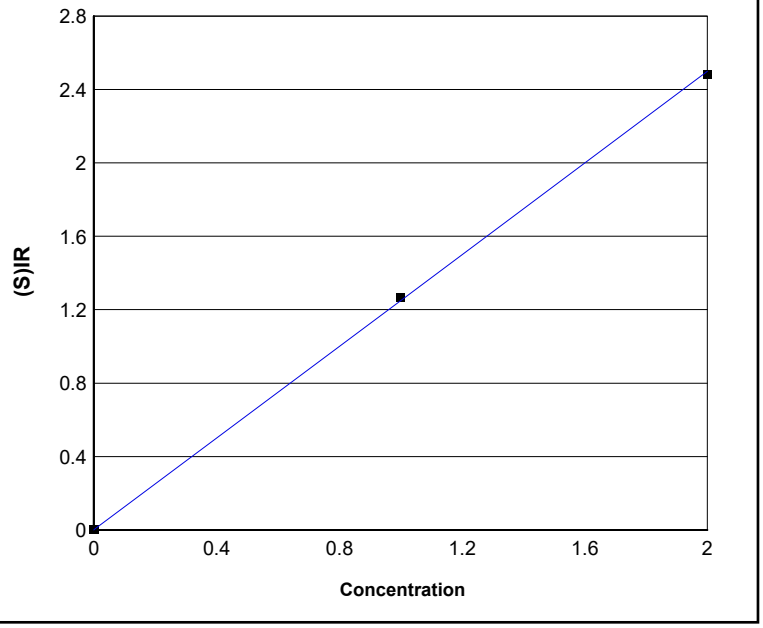
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000009393	0.0000009393	0.00000	-0.0014585	0.0031126	1
IC-7019501	0.030000	0.029200	-0.00080001	-2.6667	0.046492	0.0027892	1
IC-7024752	1.0000	0.98991	-0.010087	-1.0087	1.6242	0.0017638	1
IC-7019492	2.0000	2.0109	0.010887	0.54435	3.3008	0.0088566	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.000040827
A1 (Gain):	0.024541
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

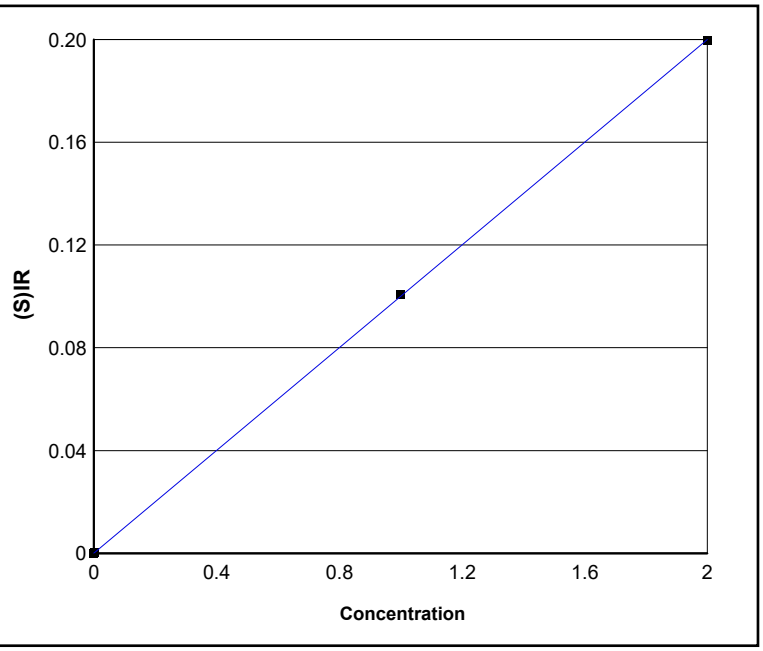
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000025390	0.0000025390	0.00000	0.000040890	0.000038796	1
IC-7019501	0.20000	0.19648	-0.0035179	-1.7589	0.0048625	0.000091478	1
IC-7024752	50.000	50.486	0.48591	0.97182	1.2390	0.0041149	1
IC-7019492	100.00	99.518	-0.48239	-0.48239	2.4422	0.0019361	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.00058601
A1 (Gain):	1.2494
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

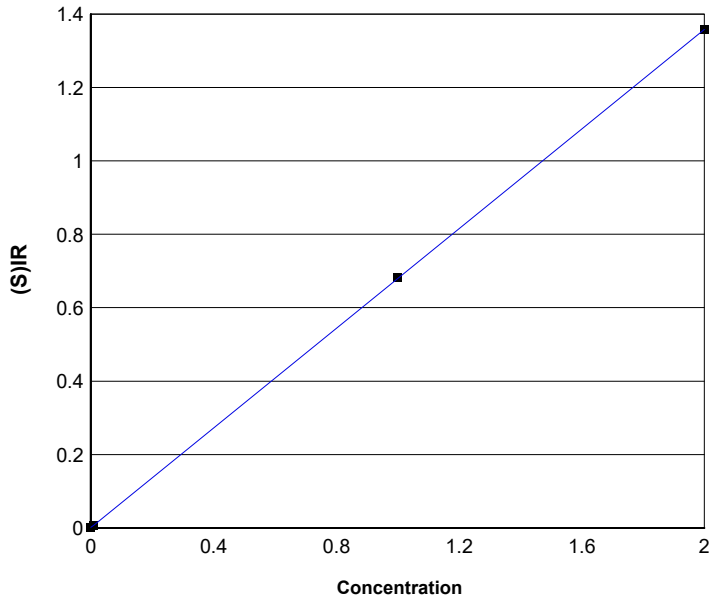
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000065	0.0000000065	0.00000	0.00058602	0.000024650	1
IC-7019501	0.0030000	0.0029738	-0.000026217	-0.87390	0.0043031	0.000096560	1
IC-7024752	1.0000	1.0131	0.013143	1.3143	1.2668	0.0031110	1
IC-7019492	2.0000	1.9869	-0.013116	-0.65582	2.4838	0.0038490	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.000084843
A1 (Gain):	0.099942
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

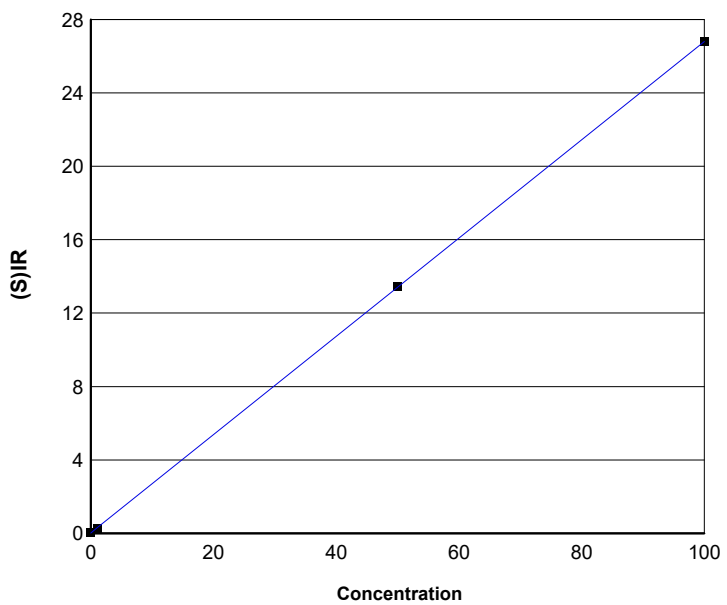
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000005472	0.0000005472	0.00000	0.000084898	0.0000003137	1
IC-7019501	0.0030000	0.0024433	-0.00055674	-18.558	0.00032913	0.000024739	1
IC-7024752	1.0000	1.0058	0.0057948	0.57948	0.10064	0.00041980	1
IC-7019492	2.0000	1.9948	-0.0052380	-0.26190	0.19951	0.00025569	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0012561
A1 (Gain):	0.67830
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

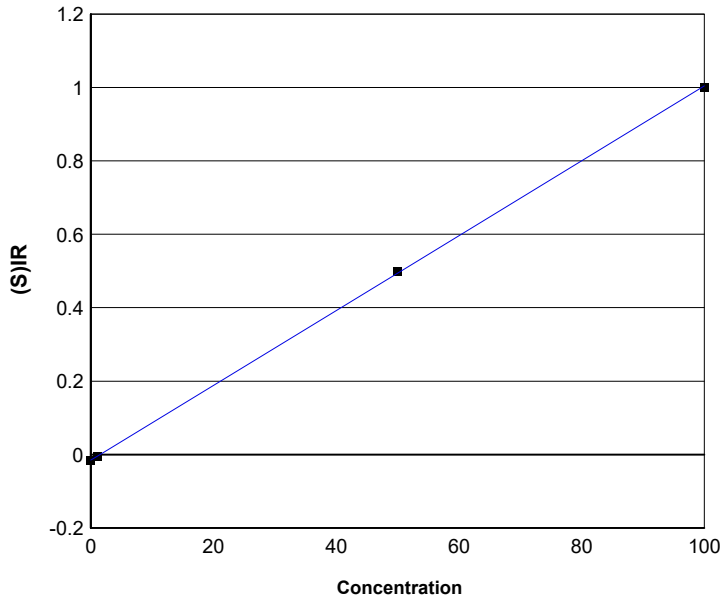
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000009426	0.0000009426	0.00000	0.0012567	0.00036284	1
IC-7019501	0.010000	0.0090398	-0.00096021	-9.6021	0.0073878	0.000085289	1
IC-7024752	1.0000	1.0026	0.0025679	0.25679	0.68130	0.00020981	1
IC-7019492	2.0000	1.9984	-0.0016077	-0.080384	1.3568	0.0015494	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.017570
A1 (Gain):	0.26790
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

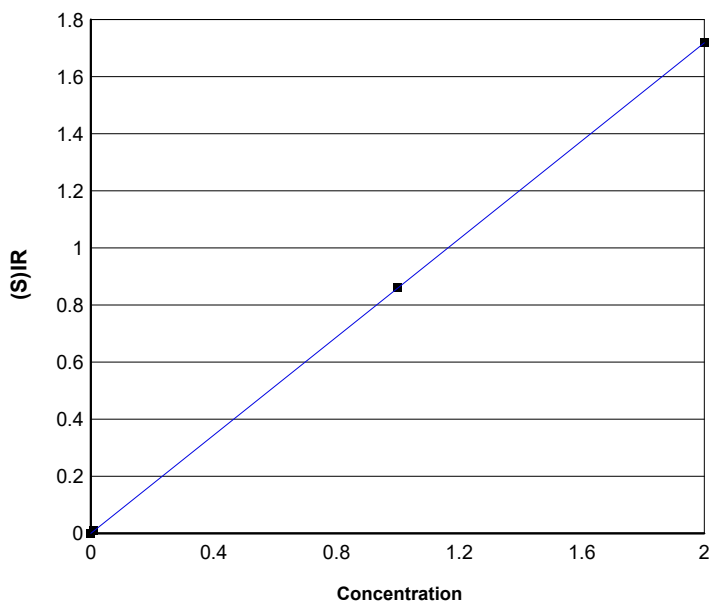
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.000030766	0.000030766	0.00000	0.017579	0.0014635	1
IC-7019501	1.0000	0.96805	-0.031952	-3.1952	0.27691	0.0013817	1
IC-7024752	50.000	50.087	0.086642	0.17328	13.436	0.011861	1
IC-7019492	100.00	99.945	-0.054690	-0.054690	26.793	0.049590	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.015242
A1 (Gain):	0.010197
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

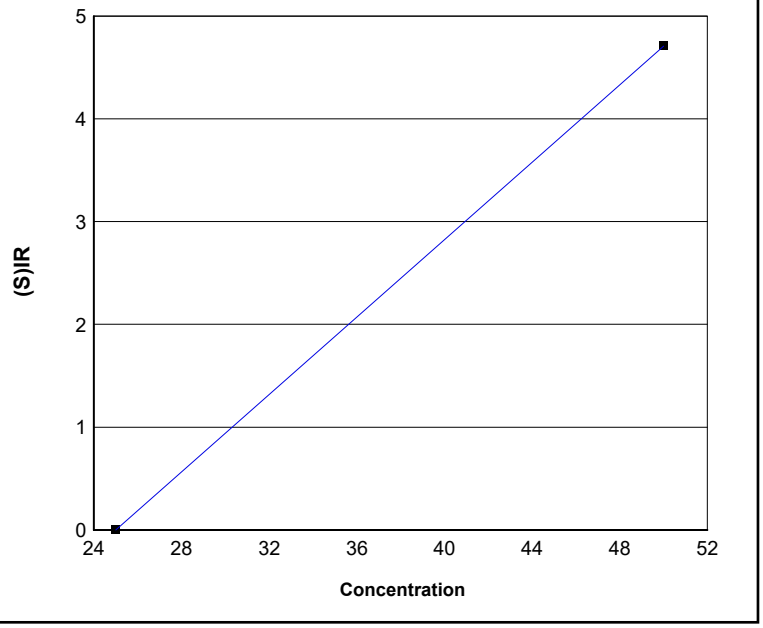
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	-0.000050736	-0.000050736	0.00000	-0.015242	0.0017774	1
IC-7019501	1.0000	1.0462	0.046204	4.6204	-0.0045739	0.0026667	1
IC-7024752	50.000	50.499	0.49945	0.99890	0.49969	0.0010181	1
IC-7019492	100.00	99.454	-0.54566	-0.54566	0.99887	0.0037285	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00035010
A1 (Gain):	0.85912
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

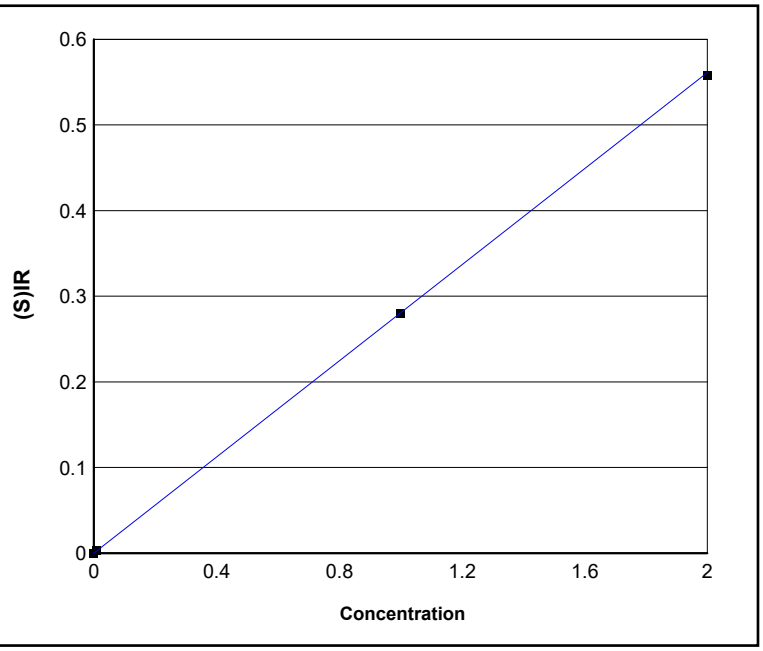
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000003606	0.0000003606	0.00000	0.00035041	0.000084914	1
IC-7019501	0.010000	0.0096328	-0.00036725	-3.6725	0.0086267	0.000043133	1
IC-7024752	1.0000	1.0010	0.00095898	0.095898	0.86115	0.0017154	1
IC-7019492	2.0000	1.9994	-0.00059206	-0.029603	1.7198	0.00045667	1



Element Name:	P
Element Wavelength:	P 213.618 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-4.708
A1 (Gain):	0.1883
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

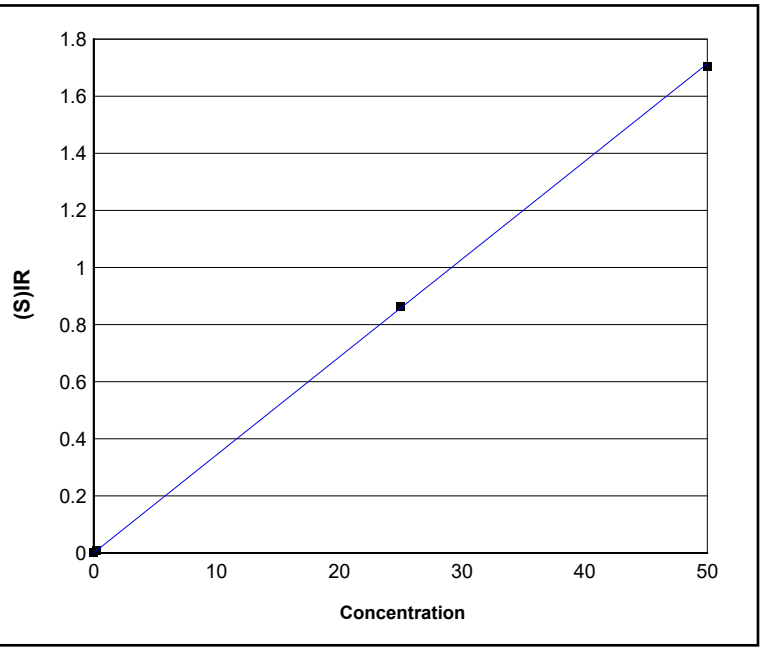
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-7019501	25.00	25.00	0.0000000000	0.0000000000	0.0004991	0.00006348	1
IC-7019492	50.00	50.00	0.0000000000	0.0000000000	4.709	0.0005763	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00011450
A1 (Gain):	0.28058
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

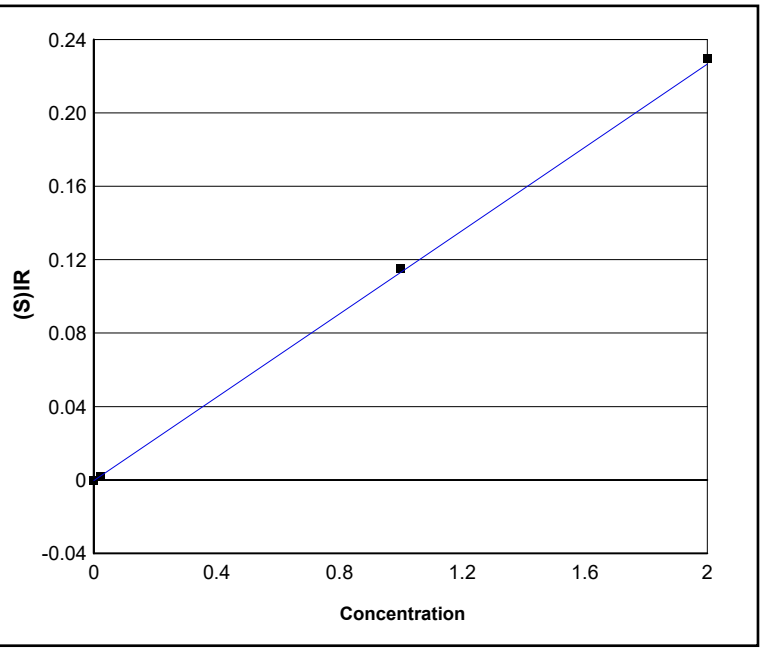
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000008438	0.0000008438	0.00000	0.00011473	0.00025522	1
IC-7019501	0.010000	0.0091363	-0.00086370	-8.6370	0.0026543	0.000033620	1
IC-7024752	1.0000	1.0031	0.0031191	0.31191	0.28016	0.00042381	1
IC-7019492	2.0000	1.9977	-0.0022584	-0.11292	0.55782	0.00095596	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.0012436
A1 (Gain):	0.034251
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

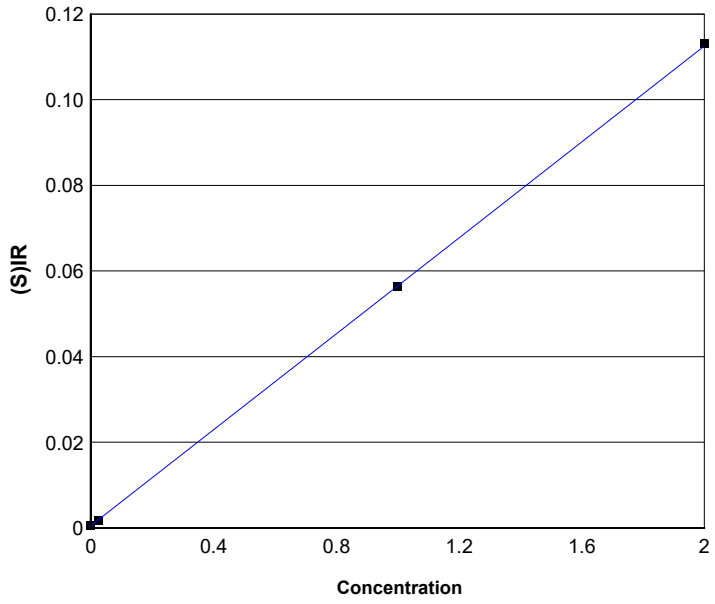
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.000019173	0.000019173	0.00000	0.0012442	0.000016944	1
IC-7019501	0.20000	0.17980	-0.020201	-10.100	0.0073973	0.000031097	1
IC-7024752	25.000	25.237	0.23681	0.94723	0.86450	0.000074827	1
IC-7019492	50.000	49.783	-0.21659	-0.43319	1.7041	0.00078774	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	-0.00035218
A1 (Gain):	0.11345
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

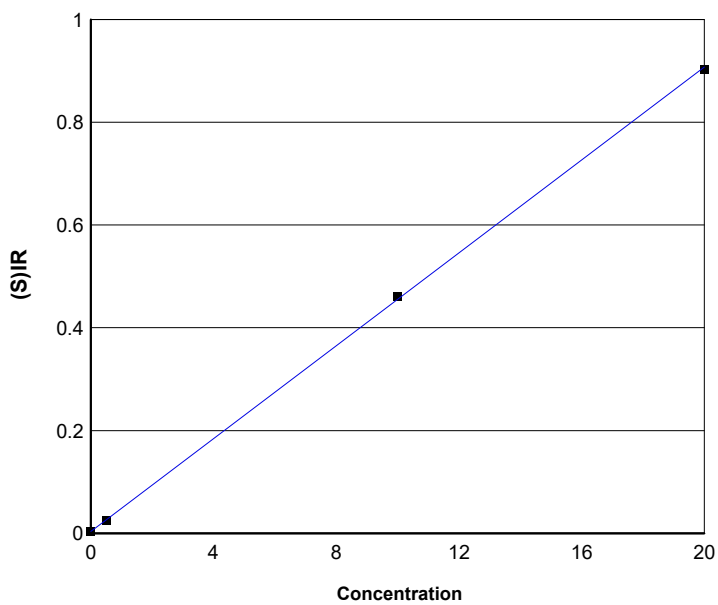
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000024939	0.0000024939	0.00000	-0.00035190	0.00030705	1
IC-7019501	0.020000	0.017433	-0.0025668	-12.834	0.0016333	0.000075121	1
IC-7024752	1.0000	1.0048	0.0047538	0.47538	0.11523	0.00016102	1
IC-7019492	2.0000	1.9978	-0.0022139	-0.11070	0.22948	0.00053656	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99979
A0 (Offset):	0.00054518
A1 (Gain):	0.056010
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

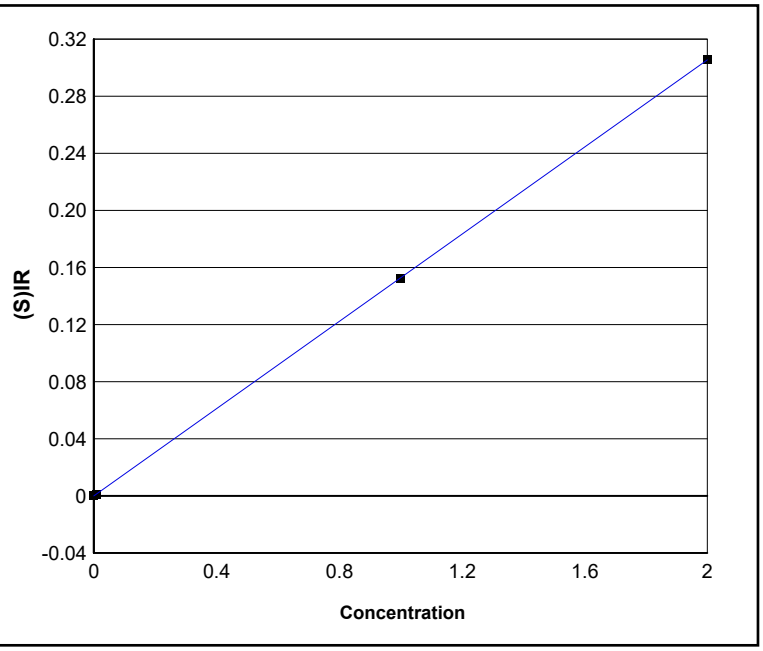
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000054049	0.0000054049	0.00000	0.00054548	0.00023326	1
IC-7019501	0.025000	0.019588	-0.0054122	-21.649	0.0016424	0.00016325	1
IC-7024752	1.0000	0.99517	-0.0048270	-0.48270	0.056306	0.00010568	1
IC-7019492	2.0000	2.0102	0.010237	0.51187	0.11318	0.00031653	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	0.0035124
A1 (Gain):	0.045183
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

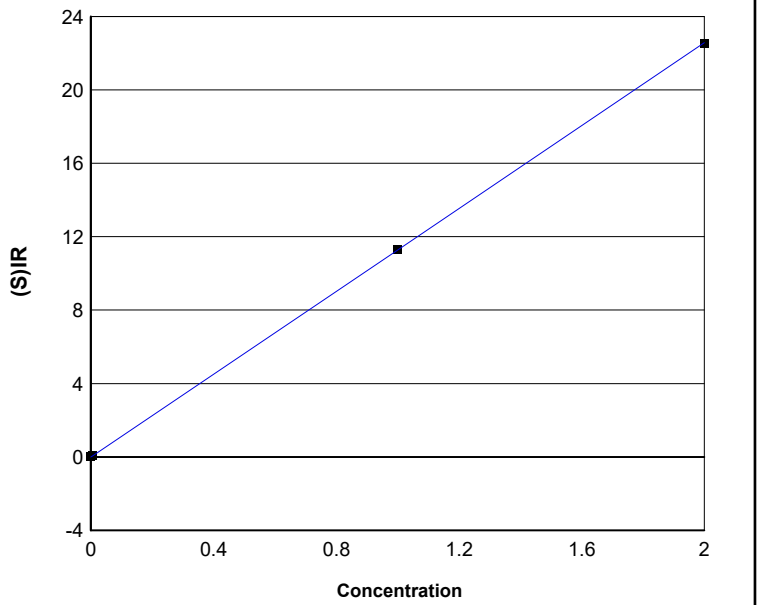
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.000031600	0.000031600	0.00000	0.0035139	0.000039361	1
IC-7019501	0.50000	0.46418	-0.035821	-7.1642	0.024485	0.00034000	1
IC-7024752	10.000	10.133	0.13301	1.3301	0.46135	0.00045788	1
IC-7019492	20.000	19.903	-0.097191	-0.48595	0.90278	0.00011821	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:08PM
Date of Fit:	6/9/2022 12:24:08PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	-0.000012469
A1 (Gain):	0.15275
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

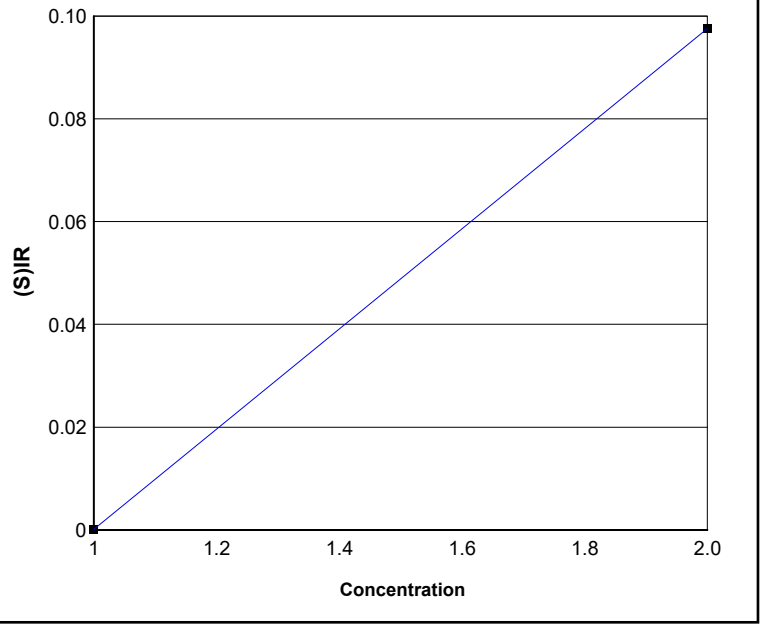
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000018226	0.0000018226	0.00000	-0.000012190	0.000082837	1
IC-7019501	0.010000	0.0081775	-0.0018225	-18.225	0.0012366	0.000029772	1
IC-7024752	1.0000	0.99816	-0.0018413	-0.18413	0.15246	0.000080342	1
IC-7019492	2.0000	2.0037	0.0036638	0.18319	0.30605	0.00026346	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:09PM
Date of Fit:	6/9/2022 12:24:09PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.0034879
A1 (Gain):	11.285
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

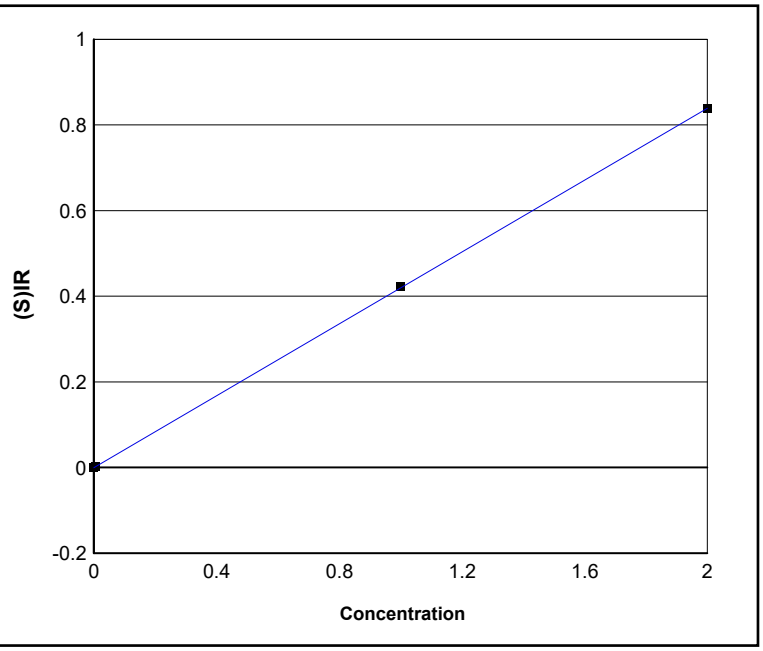
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000880	-0.0000000880	0.00000	-0.0034889	0.00078684	1
IC-7019501	0.0050000	0.0050819	0.000081869	1.6374	0.053860	0.00053758	1
IC-7024752	1.0000	1.0025	0.0025178	0.25178	11.310	0.010174	1
IC-7019492	2.0000	1.9974	-0.0025997	-0.12999	22.537	0.027857	1



Element Name:	Th
Element Wavelength:	Th 283.730 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:09PM
Date of Fit:	6/9/2022 12:24:09PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-0.09740
A1 (Gain):	0.09750
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

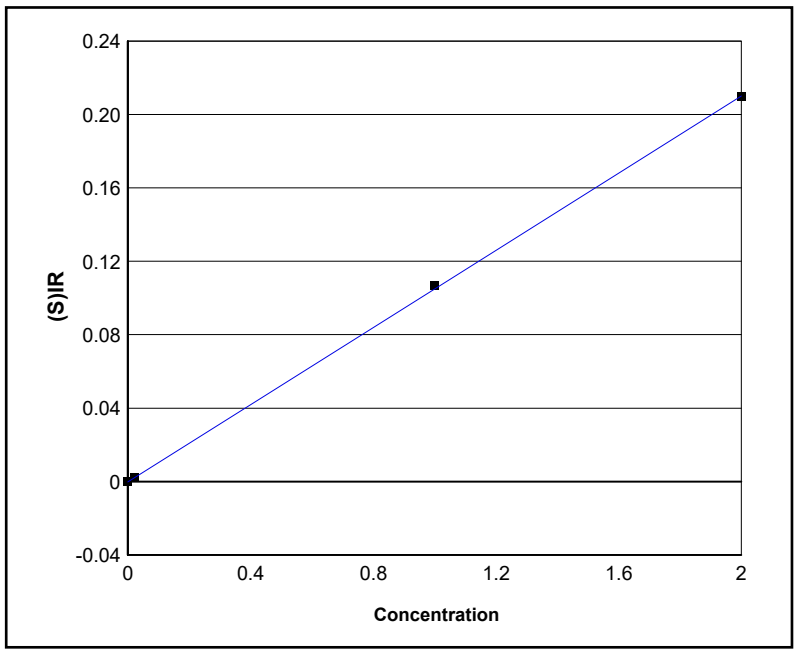
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-7019501	1.000	1.000	0.0000000000	0.0000000000	0.00009813	0.0006464	1
IC-7019492	2.000	2.000	0.0000000000	0.0000000000	0.09760	0.00003861	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:09PM
Date of Fit:	6/9/2022 12:24:09PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00023723
A1 (Gain):	0.41976
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

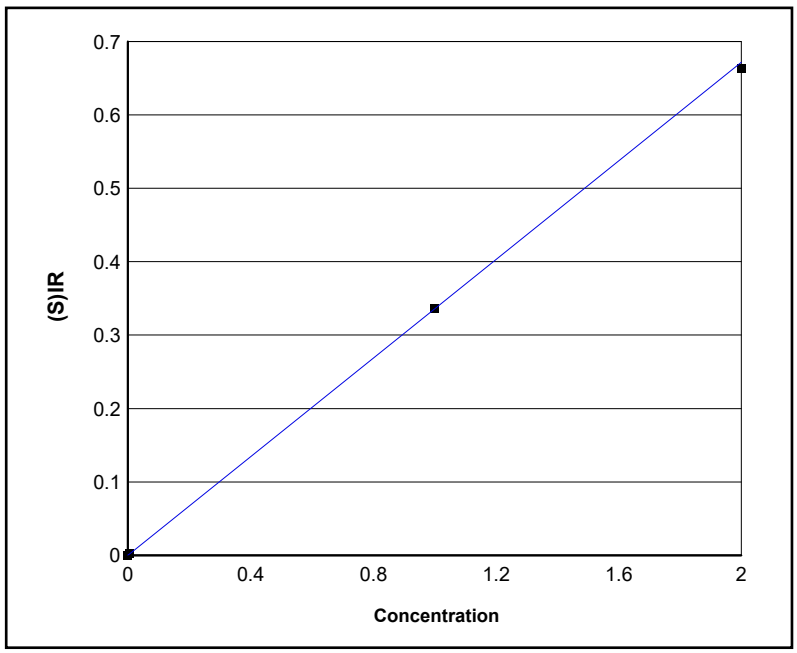
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000006429	0.0000006429	0.00000	-0.00023696	0.000028788	1
IC-7019501	0.0050000	0.0043424	-0.00065759	-13.152	0.0015919	0.000032927	1
IC-7024752	1.0000	1.0052	0.0052220	0.52220	0.42241	0.00053849	1
IC-7019492	2.0000	1.9954	-0.0045635	-0.22818	0.83876	0.00060405	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:09PM
Date of Fit:	6/9/2022 12:24:09PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.00020868
A1 (Gain):	0.10518
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

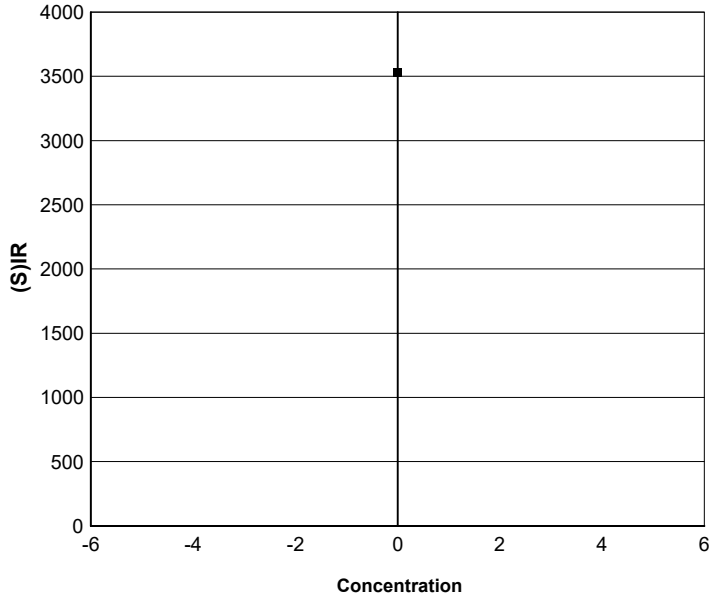
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000009897	-0.0000009897	0.00000	-0.00020878	0.0000098613	1
IC-7019501	0.020000	0.020879	0.00087920	4.3960	0.0019895	0.000039108	1
IC-7024752	1.0000	1.0119	0.011925	1.1925	0.10670	0.00034248	1
IC-7019492	2.0000	1.9872	-0.012801	-0.64005	0.20976	0.00065509	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:09PM
Date of Fit:	6/9/2022 12:24:09PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00019396
A1 (Gain):	0.33582
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

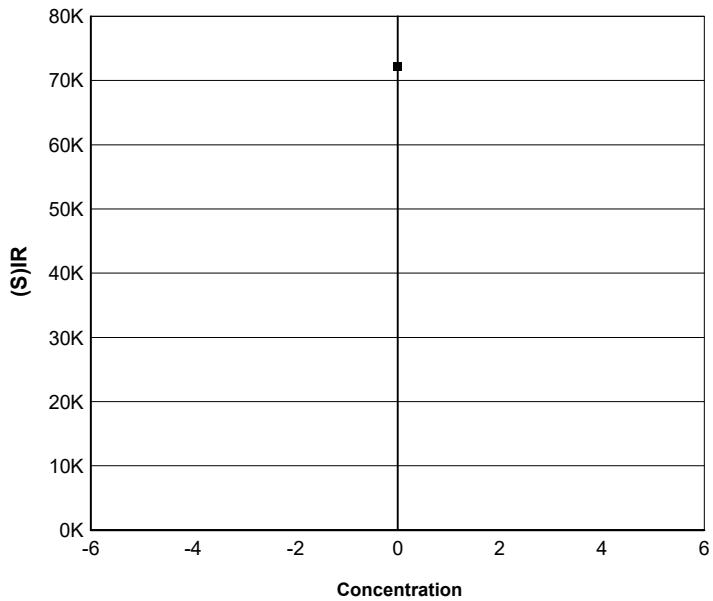
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000003622	0.0000003622	0.00000	0.00019408	0.000075893	1
IC-7019501	0.0050000	0.0046184	-0.00038163	-7.6326	0.0017129	0.000067927	1
IC-7024752	1.0000	1.0074	0.0073975	0.73975	0.33553	0.00089059	1
IC-7019492	2.0000	1.9930	-0.0070198	-0.35099	0.66354	0.00066117	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:12:59PM
Date of Fit:	6/9/2022 12:12:59PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

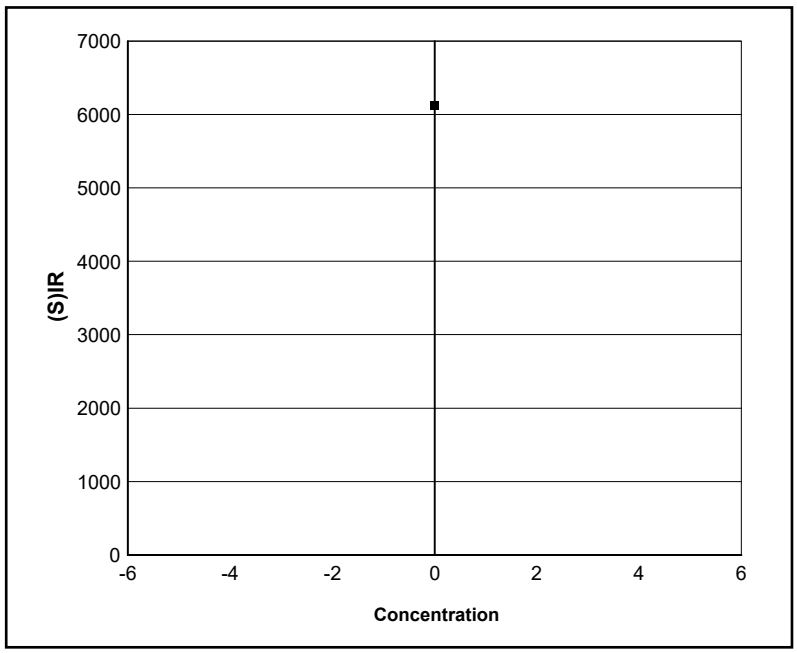
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000			0.0000	3,532	3.118	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:12:59PM
Date of Fit:	6/9/2022 12:12:59PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

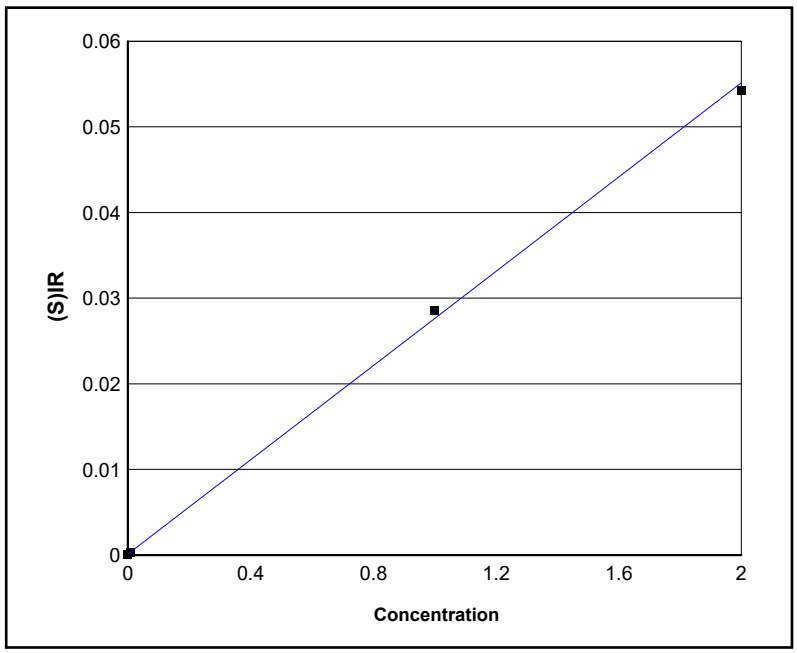
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000			0.0000	72,150	149.9	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:12:59PM
Date of Fit:	6/9/2022 12:12:59PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

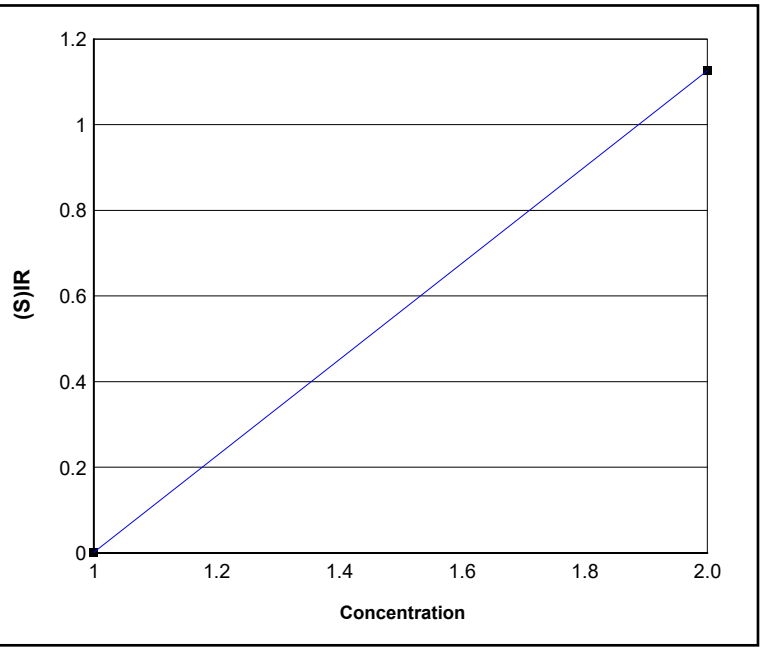
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000			0.0000	6,128	0.7842	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:09PM
Date of Fit:	6/9/2022 12:24:09PM
Type of Fit:	Linear
Correlation:	0.99959
A0 (Offset):	0.00011209
A1 (Gain):	0.027531
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000028802	0.0000028802	0.00000	0.00011217	0.0000008891	1
IC-7019501	0.010000	0.0069394	-0.0030606	-30.606	0.00030298	0.0000019527	1
IC-7024752	1.0000	1.0330	0.033011	3.3011	0.028512	0.00022238	1
IC-7019492	2.0000	1.9701	-0.029948	-1.4974	0.054271	0.00017014	1



Element Name:	Zr
Element Wavelength:	Zr 343.823 nm
Concentration Units:	ppm
Date of Calibration:	6/9/2022 12:24:09PM
Date of Fit:	6/9/2022 12:24:09PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-1.124
A1 (Gain):	1.125
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-7019501	1.000	1.0000	0.0000000000	0.0000000000	0.001170	0.00001408	1
IC-7019492	2.000	2.000	0.0000	0.0000	1.126	0.002571	1

Sample Name: ICIS-7026764 Acquired: 6/9/2022 12:09:09 Type: Cal
Method: ICAP1 Feb 2022(v109) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00014**	**.00145**	**.00005**	**.00125**	**.01165**
Stddev	.00011	.00002	.00001	.00023	.00063
%RSD	83.530	1.4130	18.937	18.344	5.3947
#1	-.00006	.00146	.00006	.00141	.01120
#2	-.00022	.00143	.00004	.00109	.01209

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00220**	**-.00174**	**.01415**	**-.00025**	**.0020**
Stddev	.00040	.00032	.00007	.00001	.0006
%RSD	18.086	18.610	.47383	2.4771	29.18
#1	.00192	-.00197	.01410	-.00025	.0016
#2	.00248	-.00151	.01419	-.00025	.0024

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00018**	**.00009**	**.00012**	**.00072**	**.00062**
Stddev	.00003	.00003	.00021	.00020	.00081
%RSD	15.205	35.548	176.65	27.130	130.26
#1	-.00016	.00007	.00026	.00058	.00005
#2	-.00020	.00012	-.00003	.00086	.00119

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01054**	**-.00146**	**.00004**	**.00059**	**.00008**
Stddev	.00256	.00311	.00004	.00002	.00000
%RSD	24.231	213.41	94.879	4.2064	.36946
#1	.01235	.00074	.00007	.00060	.00009
#2	.00874	-.00366	.00001	.00057	.00008

Sample Name: ICIS-7026764 Acquired: 6/9/2022 12:09:09 Type: Cal
Method: ICAP1 Feb 2022(v109) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00126**	**.01758**	**-.01524**	**.00035**	**.00011**
Stddev	.00036	.00146	.00178	.00008	.00026
%RSD	28.872	8.3257	11.661	24.233	222.45
#1	.00100	.01654	-.01399	.00041	.00030
#2	.00151	.01861	-.01650	.00029	-.00007

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00124**	**-.00035**	**.00055**	**.00351**	**-.00001**
Stddev	.00002	.00031	.00023	.00004	.00008
%RSD	1.3618	87.257	42.762	1.1201	679.53
#1	.00123	-.00013	.00038	.00354	.00005
#2	.00126	-.00057	.00071	.00349	-.00007

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00349**	**-.00024**	**-.00021**	**.00019**	**.00011**
Stddev	.00079	.00003	.00001	.00008	.00000
%RSD	22.553	12.149	4.7232	39.103	.79268
#1	-.00405	-.00022	-.00022	.00025	.00011
#2	-.00293	-.00026	-.00020	.00014	.00011

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3987.7**	**3531.6**	**72145.**	**6127.9**
Stddev	1.5	3.1	150.	.8
%RSD	.03750	.08829	.20777	.01280
#1	3986.6	3529.4	72251.	6128.4
#2	3988.7	3533.8	72039.	6127.3

Sample Name: IC-7019501 Acquired: 6/9/2022 12:13:02 Type: Cal
Method: ICAP1 Feb 2022(v109) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00154**	**.00662**	**.00084**	**.00832**	**.02181**
Stddev	.00004	.00025	.00013	.00004	.00045
%RSD	2.5506	3.8259	15.898	.46569	2.0434
#1	.00157	.00644	.00075	.00835	.02150
#2	.00151	.00680	.00094	.00830	.02213

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02445**	**.02070**	**.15585**	**.00415**	**.00457**
Stddev	.00005	.00031	.00095	.00009	.00004
%RSD	.21522	1.5138	.60859	2.1852	.86772
#1	.02449	.02047	.15518	.00421	.00460
#2	.02442	.02092	.15652	.00408	.00454

Elem	Cr2677	Cu3273	Fe2599	Fe2714	K_7664
Line	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}	766.490 { 44}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00084**	**.00302**	**.01037**	**.00145**	**.04937**
Stddev	.00002	.00002	.00039	.00076	.00005
%RSD	1.8271	.71176	3.7656	52.239	.09310
#1	.00083	.00303	.01009	.00198	.04940
#2	.00085	.00300	.01064	.00091	.04934

Elem	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020
Line	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2	202.030 {467}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.04649**	**.00486**	**.00430**	**.00033**	**.00739**
Stddev	.00279	.00009	.00010	.00002	.00009
%RSD	5.9993	1.8813	2.2440	7.5164	1.1545
#1	.04846	.00493	.00437	.00035	.00745
#2	.04452	.00480	.00423	.00031	.00733

Sample Name: IC-7019501 Acquired: 6/9/2022 12:13:02 Type: Cal
Method: ICAP1 Feb 2022(v109) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Na8183	Ni2316	P_2136	Pb2203
Line	589.592 { 57}	818.326 { 41}	231.604 {446}	213.618 {458}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.27691**	**-.00457**	**.00863**	**.0005**	**.00265**
Stddev	.00138	.00267	.00004	.0001	.00003
%RSD	.49897	58.303	.50000	12.72	1.2666
#1	.27593	-.00269	.00860	.0005	.00268
#2	.27789	-.00646	.00866	.0005	.00263

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00740**	**.00163**	**.00164**	**.02449**	**.00124**
Stddev	.00003	.00008	.00016	.00034	.00003
%RSD	.42038	4.5994	9.9402	1.3886	2.4075
#1	.00742	.00158	.00153	.02473	.00126
#2	.00738	.00169	.00176	.02424	.00122

Elem	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Line	407.771 { 83}	283.730 {119}	334.904 {101}	190.856 {477}	292.402 {115}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.05386**	**.0001**	**.00159**	**.00199**	**.00171**
Stddev	.00054	.0006	.00003	.00004	.00007
%RSD	.99810	658.7	2.0685	1.9657	3.9657
#1	.05348	-.0004	.00162	.00196	.00176
#2	.05424	.0006	.00157	.00202	.00166

Elem	Zn2062	Zr3438
Line	206.200 {163}	343.823 { 98}
Units	Cts/S	Cts/S
Avg	**.00030**	**.0012**
Stddev	.00000	.0000
%RSD	.64451	1.203
#1	.00030	.0012
#2	.00030	.0012

Sample Name: IC-7019501 Acquired: 6/9/2022 12:13:02 Type: Cal
Method: ICAP1 Feb 2022(v109) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3963.8**	**3528.8**	**72018.**	**6172.1**
Stddev	.4	2.1	257.	24.6
%RSD	.01000	.06008	.35680	.39900
#1	3964.1	3530.3	71836.	6154.7
#2	3963.5	3527.3	72199.	6189.5

Sample Name: IC-7024752 Acquired: 6/9/2022 12:16:55 Type: Cal
Method: ICAP1 Feb 2022(v109) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.31213**	**1.5047**	**.06831**	**.39751**	**6.2186**
Stddev	.00020	.0002	.00026	.00035	.0012
%RSD	.06450	.01445	.37869	.08771	.01929
#1	.31227	1.5048	.06813	.39775	6.2177
#2	.31198	1.5045	.06850	.39726	6.2194

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10.687**	**10.930**	**14.162**	**2.2033**	**.0387**
Stddev	.028	.003	.005	.0007	.0003
%RSD	.26301	.02397	.03771	.03298	.8801
#1	10.667	10.932	14.166	2.2028	.0390
#2	10.707	10.928	14.158	2.2038	.0385

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.2217**	**.20059**	**.26917**	**9.5585**	**.49280**
Stddev	.0021	.00047	.00042	.0052	.00077
%RSD	.17193	.23508	.15566	.05480	.15712
#1	1.2232	.20092	.26947	9.5548	.49225
#2	1.2202	.20025	.26888	9.5622	.49335

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.0544**	**1.6242**	**1.2390**	**1.2668**	**.10064**
Stddev	.0037	.0018	.0041	.0031	.00042
%RSD	.09208	.10860	.33213	.24557	.41714
#1	4.0570	1.6229	1.2419	1.2690	.10093
#2	4.0517	1.6254	1.2360	1.2646	.10034

Sample Name: IC-7024752 Acquired: 6/9/2022 12:16:55 Type: Cal
Method: ICAP1 Feb 2022(v109) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.68130**	**13.436**	**.49969**	**.86115**	**.28016**
Stddev	.00021	.012	.00102	.00172	.00042
%RSD	.03079	.08828	.20375	.19920	.15127
#1	.68115	13.444	.49897	.86237	.28046
#2	.68145	13.427	.50041	.85994	.27986

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.86450**	**.11523**	**.05631**	**.46135**	**.15246**
Stddev	.00007	.00016	.00011	.00046	.00008
%RSD	.00866	.13974	.18768	.09925	.05270
#1	.86444	.11534	.05638	.46103	.15251
#2	.86455	.11511	.05623	.46167	.15240

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11.310**	**.42241**	**.10670**	**.33553**	**.02851**
Stddev	.010	.00054	.00034	.00089	.00022
%RSD	.08996	.12748	.32097	.26543	.77993
#1	11.317	.42279	.10695	.33616	.02867
#2	11.303	.42203	.10646	.33490	.02836

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3422.0**	**3344.9**	**67243.**	**5991.1**
Stddev	1.2	5.6	175.	14.1
%RSD	.03436	.16640	.26059	.23455
#1	3421.1	3348.8	67119.	6001.1
#2	3422.8	3341.0	67367.	5981.2

Sample Name: IC-7019492 Acquired: 6/9/2022 12:20:34 Type: Cal
Method: ICAP1 Feb 2022(v109) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.62275**	**2.9859**	**.13601**	**.77028**	**12.413**
Stddev	.00039	.0032	.00026	.00042	.013
%RSD	.06330	.10839	.19006	.05444	.10865
#1	.62303	2.9882	.13619	.76999	12.422
#2	.62247	2.9836	.13582	.77058	12.403

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**20.859**	**21.651**	**27.827**	**4.3597**	**.0755**
Stddev	.094	.031	.045	.0020	.0005
%RSD	.45260	.14511	.16229	.04655	.7054
#1	20.926	21.673	27.858	4.3583	.0759
#2	20.792	21.629	27.795	4.3612	.0751

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.4496**	**.39489**	**.53720**	**18.713**	**.96400**
Stddev	.0005	.00072	.00007	.021	.00161
%RSD	.01915	.18136	.01327	.10964	.16735
#1	2.4499	.39540	.53725	18.728	.96286
#2	2.4492	.39438	.53715	18.699	.96515

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**8.0788**	**3.3008**	**2.4422**	**2.4838**	**.19951**
Stddev	.0148	.0089	.0019	.0039	.00026
%RSD	.18328	.26831	.07928	.15496	.12816
#1	8.0893	3.3071	2.4435	2.4865	.19932
#2	8.0684	3.2946	2.4408	2.4811	.19969

Sample Name: IC-7019492 Acquired: 6/9/2022 12:20:34 Type: Cal
Method: ICAP1 Feb 2022(v109) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	P_2136
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	213.618 {458}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.3568**	**26.793**	**.99887**	**1.7198**	**4.709**
Stddev	.0015	.050	.00373	.0005	.001
%RSD	.11420	.18509	.37327	.02655	.0122
#1	1.3579	26.828	1.0015	1.7201	4.710
#2	1.3557	26.758	.99623	1.7195	4.709

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.55782**	**1.7041**	**.22948**	**.11318**	**.90278**
Stddev	.00096	.0008	.00054	.00032	.00012
%RSD	.17137	.04623	.23382	.27967	.01309
#1	.55715	1.7035	.22910	.11296	.90269
#2	.55850	1.7047	.22986	.11341	.90286

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908
Line	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}	190.856 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.30605**	**22.537**	**.0976**	**.83876**	**.20976**
Stddev	.00026	.028	.0000	.00060	.00066
%RSD	.08608	.12361	.0396	.07202	.31231
#1	.30586	22.557	.0976	.83918	.20930
#2	.30623	22.517	.0976	.83833	.21022

Elem	V_2924	Zn2062	Zr3438
Line	292.402 {115}	206.200 {163}	343.823 { 98}
Units	Cts/S	Cts/S	Cts/S
Avg	**.66354**	**.05427**	**1.126**
Stddev	.00066	.00017	.003
%RSD	.09964	.31351	.2283
#1	.66401	.05439	1.128
#2	.66307	.05415	1.125

Sample Name: IC-7019492 Acquired: 6/9/2022 12:20:34 Type: Cal
Method: ICAP1 Feb 2022(v109) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3220.2**	**3262.1**	**65265.**	**5888.1**
Stddev	3.0	2.2	65.	9.8
%RSD	.09350	.06710	.09915	.16624
#1	3218.1	3260.6	65219.	5881.2
#2	3222.4	3263.7	65311.	5895.1

Sample Name: ICV-7017592 Acquired: 6/9/2022 12:24:13 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.75617**	**36.435**	**.75546**	**.77969**	**.74599**
Stddev	.00020	.016	.00137	.00014	.00089
%RSD	.02594	.04382	.18172	.01812	.11966
#1	.75603	36.446	.75449	.77979	.74536
#2	.75631	36.424	.75644	.77959	.74662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.75541**	**36.991**	**.74812**	**-.0218**	**.73928**
Stddev	.00036	.016	.00111	.0045	.00028
%RSD	.04742	.04455	.14870	20.62	.03758
#1	.75516	37.003	.74891	-.0186	.73948
#2	.75566	36.979	.74733	-.0250	.73908
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.76170**	**.75097**	**37.509**	**36.368**	**.73464**
Stddev	.00136	.00003	.038	.004	.00181
%RSD	.17917	.00418	.10230	.01047	.24628
#1	.76266	.75095	37.536	36.366	.73592
#2	.76073	.75099	37.482	36.371	.73336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICV-7017592 Acquired: 6/9/2022 12:24:13 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.089**	**.77161**	**.77025**	**36.299**	**.74898**
Stddev	.138	.00191	.00288	.002	.00060
%RSD	.37309	.24704	.37390	.00646	.08015
#1	36.991	.77026	.77228	36.298	.74856
#2	37.187	.77296	.76821	36.301	.74941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.37**	**.74328**	**18.544**	**.77223**	**.77331**
Stddev	.01	.00120	.030	.00111	.00438
%RSD	.0189	.16127	.16066	.14374	.56647
#1	34.38	.74243	18.565	.77302	.77640
#2	34.37	.74413	18.523	.77145	.77021
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	W **7.8806**	**.73423**	**.75335**	**1.038**	**.75678**
Stddev	.0187	.00067	.00001	.003	.00057
%RSD	.23704	.09071	.00110	.3307	.07544
#1	7.8674	.73376	.75335	1.036	.75719
#2	7.8938	.73470	.75336	1.041	.75638
Check ?	Chk Warn	Chk Pass	Chk Pass	None	Chk Pass
Value	7.5000				
Range	5.0000%				

Sample Name: ICV-7017592 Acquired: 6/9/2022 12:24:13 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.76317**	**.75672**	**.75411**	**1.002**
Stddev	.00385	.00138	.00433	.000
%RSD	.50395	.18184	.57376	.0073
#1	.76589	.75575	.75105	1.002
#2	.76045	.75770	.75717	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3484.1**	**3358.4**	**67414.**	**6003.6**
Stddev	3.7	6.5	109.	17.4
%RSD	.10673	.19260	.16230	.28920
#1	3481.5	3353.9	67491.	5991.3
#2	3486.8	3363.0	67336.	6015.9

Sample Name: ICB-7026764 Acquired: 6/9/2022 12:27:54 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**-.02568**	**.00162**	**.00077**	**.00003**
Stddev	.00039	.00293	.00065	.00031	.00001
%RSD	53.850	11.424	40.261	40.716	25.981
#1	-.00100	-.02360	.00116	.00099	.00004
#2	-.00045	-.02775	.00208	.00055	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00618**	**-.00005**	**-.0045**	**.00001**
Stddev	.00006	.00091	.00008	.0341	.00007
%RSD	477.88	14.641	160.98	759.6	480.98
#1	.00003	.00554	-.00011	-.0286	-.00004
#2	-.00006	.00682	.00001	.0196	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00065**	**.00938**	**.07836**	**.00023**
Stddev	.00058	.00016	.00120	.01486	.00058
%RSD	173.59	24.728	12.761	18.968	250.92
#1	-.00074	.00077	.00854	.06785	-.00018
#2	.00008	.00054	.01023	.08887	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-7026764 Acquired: 6/9/2022 12:27:54 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00314**	**.00013**	**.00196**	**.00940**	**.00011**
Stddev	.00025	.00005	.00062	.00412	.00014
%RSD	7.8951	40.507	31.779	43.876	129.13
#1	.00332	.00009	.00152	.01231	.00021
#2	.00297	.00016	.00240	.00648	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00024**	**-.00606**	**-.00102**	**.00465**
Stddev	.00	.00028	.00079	.00047	.00047
%RSD	.0032	116.44	12.970	45.695	10.158
#1	25.00	.00004	-.00551	-.00069	.00432
#2	25.00	.00044	-.00662	-.00136	.00499
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01553**	**.00023**	**.00005**	**1.006**	**.00055**
Stddev	.01755	.00024	.00008	.002	.00002
%RSD	112.99	101.60	159.97	.2400	3.4610
#1	-.00312	.00040	.00011	1.004	.00054
#2	-.02795	.00007	-.00001	1.008	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-7026764 Acquired: 6/9/2022 12:27:54 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00240**	**-.00007**	**-.00016**	**.9994**
Stddev	.00092	.00038	.00024	.0005
%RSD	38.400	521.03	147.08	.0515
#1	.00305	.00019	.00001	.9990
#2	.00175	-.00034	-.00033	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3974.3**	**3498.8**	**71592.**	**6080.3**
Stddev	6.0	4.6	185.	15.3
%RSD	.15164	.13065	.25878	.25099
#1	3970.1	3495.5	71461.	6091.0
#2	3978.6	3502.0	71723.	6069.5

Sample Name: ICVL-7019501 Acquired: 6/9/2022 12:31:47 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00500**	**.17471**	**.01216**	**.01939**	**.00211**
Stddev	.00007	.01052	.00346	.00010	.00003
%RSD	1.3484	6.0223	28.432	.50975	1.4740
#1	.00495	.18215	.01460	.01946	.00208
#2	.00505	.16727	.00971	.01932	.00213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**.50638**	**.00211**	**-.0249**	**.00384**
Stddev	.00006	.00476	.00017	.0213	.00006
%RSD	2.8876	.94056	8.2752	85.42	1.4485
#1	.00211	.50301	.00198	-.0099	.00388
#2	.00202	.50974	.00223	-.0400	.00381
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00363**	**.01110**	**.05061**	**.51520**	**.02860**
Stddev	.00022	.00009	.00106	.00049	.00101
%RSD	6.1748	.78751	2.0855	.09601	3.5366
#1	.00347	.01104	.05135	.51485	.02789
#2	.00379	.01116	.04986	.51555	.02932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-7019501 Acquired: 6/9/2022 12:31:47 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19900**	**.00336**	**.00987**	**.96869**	**.00979**
Stddev	.00484	.00005	.00019	.01168	.00012
%RSD	2.4310	1.4903	1.9053	1.2055	1.2049
#1	.19558	.00332	.00974	.97695	.00987
#2	.20242	.00339	.01000	.96044	.00971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00879**	**.18217**	**.01749**	**.02092**
Stddev	.00	.00085	.00023	.00061	.00047
%RSD	.0022	9.7119	.12515	3.4952	2.2343
#1	25.00	.00818	.18233	.01706	.02059
#2	25.00	.00939	.18201	.01793	.02125
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.43578**	**.00919**	**.00503**	F **.9999**	**.00456**
Stddev	.01209	.00072	.00002	.0035	.00013
%RSD	2.7741	7.7929	.37980	.3510	2.9316
#1	.44433	.00868	.00505	.9974	.00447
#2	.42723	.00969	.00502	1.002	.00466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: ICVL-7019501 Acquired: 6/9/2022 12:31:47 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02087**	**.00463**	**.00765**	F **.9997**
Stddev	.00074	.00009	.00071	.0001
%RSD	3.5403	2.0295	9.2978	.0117
#1	.02035	.00457	.00715	.9996
#2	.02139	.00470	.00816	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3942.1**	**3494.6**	**71163.**	**6096.4**
Stddev	2.2	2.0	100.	3.4
%RSD	.05489	.05834	.14019	.05536
#1	3940.5	3496.1	71234.	6098.8
#2	3943.6	3493.2	71093.	6094.0

Sample Name: ICSA-7017591 Acquired: 6/9/2022 12:35:40 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00155**	**494.57**	**-.00471**	**-.00016**	**.00781**
Stddev	.00140	1.31	.00407	.00103	.00000
%RSD	89.928	.26573	86.393	655.57	.02661
#1	-.00057	495.50	-.00758	.00057	.00781
#2	-.00254	493.64	-.00183	-.00089	.00781
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**468.73**	**-.00028**	**.0505**	**-.00082**
Stddev	.00002	3.51	.00011	.0257	.00001
%RSD	38.846	.74909	41.193	50.93	1.0805
#1	.00005	466.25	-.00036	.0687	-.00083
#2	.00003	471.21	-.00020	.0323	-.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00115**	**-.00533**	**188.77**	**.17547**	**.00837**
Stddev	.00032	.00051	.67	.01385	.00097
%RSD	27.655	9.5672	.35281	7.8912	11.542
#1	.00137	-.00569	189.25	.16568	.00769
#2	.00092	-.00497	188.30	.18526	.00905
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-7017591 Acquired: 6/9/2022 12:35:40 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**510.18**	**-.00056**	**-.00156**	**.10662**	**.00083**
Stddev	2.76	.00011	.00034	.00901	.00047
%RSD	.54043	19.288	21.981	8.4540	57.359
#1	508.23	-.00049	-.00181	.10025	.00116
#2	512.13	-.00064	-.00132	.11300	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**-.00251**	W **.22477**	**-.00588**	**-.00592**
Stddev	.00	.00028	.00573	.00260	.00659
%RSD	.0008	11.039	2.5504	44.182	111.37
#1	25.04	-.00271	.22072	-.00404	-.00126
#2	25.04	-.00232	.22882	-.00771	-.01058
Check ?	None	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit			.20000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.04558**	**-.00412**	**.01305**	**1.070**	**.00192**
Stddev	.00436	.00101	.00014	.004	.00001
%RSD	9.5654	24.535	1.0590	.3598	.46681
#1	-.04866	-.00483	.01315	1.067	.00193
#2	-.04249	-.00340	.01295	1.073	.00191
Check ?	None	Chk Pass	None	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-7017591 Acquired: 6/9/2022 12:35:40 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00187**	**.00104**	**-.00080**	**1.003**
Stddev	.00026	.00005	.00028	.001
%RSD	14.001	4.8948	34.634	.0671
#1	.00205	.00108	-.00060	1.002
#2	.00168	.00101	-.00099	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2943.0**	**3050.2**	**61186.**	**5826.8**
Stddev	5.6	4.0	89.	.3
%RSD	.19198	.13159	.14492	.00469
#1	2939.0	3047.4	61249.	5827.0
#2	2947.0	3053.0	61123.	5826.7

Sample Name: ICSAB-7019499 Acquired: 6/9/2022 12:39:37 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52548**	**489.46**	**.50217**	**4.7045**	**.51383**
Stddev	.00224	.05	.00224	.0021	.00001
%RSD	.42673	.01047	.44541	.04465	.00133
#1	.52390	489.50	.50375	4.7060	.51382
#2	.52707	489.43	.50059	4.7030	.51383
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.24515**	**464.50**	**.51072**	**.0067**	**.49609**
Stddev	.00066	.11	.00001	.0169	.00041
%RSD	.27072	.02364	.00186	251.1	.08289
#1	.24562	464.58	.51073	.0187	.49638
#2	.24468	464.43	.51071	-.0052	.49580
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48735**	**.52368**	**187.33**	**5.2587**	**.00792**
Stddev	.00119	.00023	.12	.0004	.00017
%RSD	.24359	.04357	.06641	.00739	2.1623
#1	.48651	.52384	187.42	5.2584	.00804
#2	.48819	.52352	187.25	5.2589	.00780
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None
Value					
Range					

Sample Name: ICSAB-7019499 Acquired: 6/9/2022 12:39:37 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**503.12**	**.49627**	**.48478**	**5.2070**	**.48759**
Stddev	1.33	.00053	.00212	.0048	.00007
%RSD	.26450	.10592	.43646	.09304	.01490
#1	502.18	.49590	.48628	5.2105	.48754
#2	504.06	.49664	.48329	5.2036	.48764
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.51**	**.48794**	**.22258**	**.48041**	**.49606**
Stddev	.00	.00109	.00375	.00193	.00586
%RSD	.0121	.22430	1.6834	.40161	1.1823
#1	27.51	.48716	.21993	.47904	.50020
#2	27.50	.48871	.22523	.48177	.49191
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8252**	**.48617**	**.50096**	**1.078**	**.49868**
Stddev	.0068	.00005	.00041	.005	.00180
%RSD	.14164	.01025	.08104	.4674	.36081
#1	4.8203	.48613	.50125	1.081	.49741
#2	4.8300	.48620	.50067	1.074	.49995
Check ?	None	None	None	None	None
Value					
Range					

Sample Name: ICSAB-7019499 Acquired: 6/9/2022 12:39:37 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.48979**	**.49348**	**.45271**	**1.003**
Stddev	.00004	.00046	.00034	.000
%RSD	.00755	.09232	.07432	.0008
#1	.48982	.49380	.45247	1.003
#2	.48977	.49316	.45295	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2961.7**	**3082.3**	**61779.**	**5893.7**
Stddev	4.0	5.6	1.	18.5
%RSD	.13543	.18175	.00137	.31383
#1	2958.9	3078.4	61779.	5880.6
#2	2964.5	3086.3	61780.	5906.7

Sample Name: ICEX1 Acquired: 6/9/2022 12:43:31 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.05093**	**4.6769**	**.00699**	**.00004**
Stddev	.00002	.01319	.0128	.00056	.00002
%RSD	8.8330	25.890	.27324	8.0071	41.513
#1	.00020	-.06026	4.6859	.00739	.00003
#2	.00023	-.04161	4.6679	.00659	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00070**	**.01504**	**-.00127**	**-.0250**	**.00006**
Stddev	.00001	.00032	.00001	.0327	.00001
%RSD	1.9639	2.0982	1.0070	131.1	25.954
#1	.00069	.01482	-.00128	-.0018	.00007
#2	.00071	.01526	-.00126	-.0481	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00097**	**25.300**	**.01988**	**-.00537**	**.00387**
Stddev	.00024	.073	.00219	.01535	.00060
%RSD	24.842	.28866	10.991	285.86	15.631
#1	.00114	25.248	.01834	.00549	.00344
#2	.00080	25.351	.02143	-.01623	.00429
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 6/9/2022 12:43:31 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00345**	**.00068**	**-.00121**	**-.00364**	**.00006**
Stddev	.00034	.00007	.00020	.01072	.00009
%RSD	9.7479	9.5737	16.835	294.48	154.11
#1	.00321	.00073	-.00135	.00394	-.00001
#2	.00369	.00064	-.00107	-.01122	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.14**	**.00280**	**.00433**	**-.00012**	**-.00166**
Stddev	.00	.00044	.00000	.00046	.00042
%RSD	.0034	15.881	.05114	393.88	25.221
#1	25.14	.00311	.00433	.00021	-.00195
#2	25.14	.00248	.00433	-.00044	-.00136
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02537**	**-.00004**	**-.00001**	**.9994**	F **.00812**
Stddev	.01093	.00041	.00002	.0070	.00074
%RSD	43.083	950.43	277.56	.6979	9.1123
#1	.03310	-.00033	-.00002	.9945	.00865
#2	.01764	.00025	.00001	1.004	.00760
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Fail
High Limit					.00500
Low Limit					-.00500

Sample Name: ICEX1 Acquired: 6/9/2022 12:43:31 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00121**	**5.0098**	**-.00118**	**.9996**
Stddev	.00068	.0075	.00073	.0001
%RSD	55.822	.14956	61.354	.0117
#1	.00169	5.0045	-.00067	.9996
#2	.00073	5.0151	-.00170	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3973.9**	**3539.9**	**71876.**	**6143.6**
Stddev	1.1	.5	130.	9.3
%RSD	.02691	.01471	.18105	.15156
#1	3973.2	3540.2	71968.	6137.1
#2	3974.7	3539.5	71783.	6150.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.655%	100.23%	99.626%	100.26%
Range				

Sample Name: ICEX2 Acquired: 6/9/2022 12:47:33 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00245**	**-.01767**	**.00547**	**.00380**	**.00024**
Stddev	.00008	.00431	.00092	.00016	.00000
%RSD	3.2288	24.369	16.735	4.2283	1.4674
#1	.00250	-.01463	.00612	.00369	.00023
#2	.00239	-.02072	.00482	.00392	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.05406**	**.00018**	**.0028**	**.00080**
Stddev	.00001	.00232	.00026	.0057	.00004
%RSD	86.017	4.3007	146.33	204.3	5.0563
#1	-.00000	.05242	.00036	.0068	.00078
#2	-.00001	.05570	-.00001	-.0012	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00097**	**-.00088**	**.00438**	**.02484**	**9.3452**
Stddev	.00026	.00013	.00034	.01537	.0298
%RSD	27.210	15.209	7.6504	61.882	.31907
#1	.00078	-.00098	.00462	.01397	9.3241
#2	.00115	-.00079	.00414	.03571	9.3663
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 6/9/2022 12:47:33 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03711**	**.00070**	**.00038**	**.01433**	**.00579**
Stddev	.00497	.00011	.00041	.01231	.00008
%RSD	13.385	15.863	107.18	85.870	1.3027
#1	-.04062	.00077	.00009	.00563	.00573
#2	-.03360	.00062	.00067	.02303	.00584
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00553**	**-.02223**	**.00123**	**-.00368**
Stddev	.00	.00114	.00258	.00215	.00340
%RSD	.0042	20.651	11.618	175.30	92.257
#1	25.00	.00634	-.02406	.00274	-.00128
#2	25.00	.00472	-.02041	-.00029	-.00609
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.151**	**-.00143**	**.00022**	**.9986**	**19.426**
Stddev	.576	.00049	.00001	.0055	.010
%RSD	1.1258	34.186	4.8528	.5520	.05248
#1	50.744	-.00177	.00023	.9947	19.419
#2	51.558	-.00108	.00022	1.002	19.433
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 6/9/2022 12:47:33 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**19.388**	**.00068**	**.00566**	**1.005**
Stddev	.003	.00042	.00049	.000
%RSD	.01509	61.106	8.6513	.0281
#1	19.386	.00098	.00531	1.004
#2	19.390	.00039	.00601	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3753.6**	**3463.6**	**69983.**	**6073.9**
Stddev	1.7	2.1	121.	16.0
%RSD	.04587	.05978	.17274	.26259
#1	3752.4	3462.1	69898.	6085.2
#2	3754.8	3465.0	70069.	6062.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.130%	98.074%	97.003%	99.119%
Range				

Sample Name: ICEX3 Acquired: 6/9/2022 12:51:29 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00485**	**.00337**	**.00485**	**.00058**	**.00002**
Stddev	.00028	.01800	.00226	.00007	.00000
%RSD	5.7132	533.96	46.551	12.504	22.666
#1	-.00504	-.00936	.00325	.00063	.00002
#2	-.00465	.01610	.00645	.00053	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00759**	**.00062**	**-.5962**	**.00006**
Stddev	.00001	.00105	.00000	.0084	.00002
%RSD	14.532	13.794	.39340	1.401	25.381
#1	.00004	.00685	.00062	-.6021	.00008
#2	.00005	.00833	.00062	-.5902	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00341**	**.00500**	**-.02264**	**.00148**	**.00177**
Stddev	.00002	.00031	.00221	.01466	.00074
%RSD	.69544	6.2035	9.7817	991.88	41.821
#1	-.00343	.00522	-.02107	-.00889	.00229
#2	-.00340	.00479	-.02420	.01184	.00124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 6/9/2022 12:51:29 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03555**	**50.687**	**-.00438**	**-.00861**	**.00041**
Stddev	.00007	.162	.00025	.01563	.00015
%RSD	.20702	.31975	5.7970	181.46	36.626
#1	-.03549	50.801	-.00455	.00244	.00051
#2	-.03560	50.572	-.00420	-.01966	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00557**	**91.463**	**-.00535**	**-.00108**
Stddev	.00	.00020	.223	.00020	.00254
%RSD	.0007	3.6529	.24369	3.8012	234.81
#1	25.00	.00572	91.621	-.00549	-.00288
#2	25.00	.00543	91.305	-.00521	.00072
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00353**	**-.00152**	**.00004**	**.9961**	**.00176**
Stddev	.01118	.00074	.00020	.0016	.00079
%RSD	316.97	48.568	510.15	.1607	45.059
#1	-.01143	-.00205	-.00010	.9972	.00120
#2	.00438	-.00100	.00018	.9950	.00232
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 6/9/2022 12:51:29 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00213**	**.00098**	**-.00097**	**.9956**
Stddev	.00098	.00017	.00026	.0004
%RSD	46.085	17.582	27.273	.0418
#1	-.00143	.00086	-.00078	.9959
#2	-.00282	.00110	-.00116	.9953
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3968.8**	**3548.8**	**71804.**	**6190.2**
Stddev	4.5	2.9	.	4.8
%RSD	.11344	.08245	.00064	.07814
#1	3972.0	3546.7	71804.	6186.8
#2	3965.6	3550.9	71805.	6193.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.526%	100.49%	99.527%	101.02%
Range				

Sample Name: ICEX4 Acquired: 6/9/2022 12:55:32 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**-.01960**	**-.00198**	**-.00090**	**.00009**
Stddev	.00016	.00423	.00214	.00049	.00001
%RSD	35.080	21.588	108.29	54.399	16.054
#1	-.00034	-.02259	-.00046	-.00125	.00008
#2	-.00056	-.01660	-.00350	-.00055	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00318**	**-.00021**	**-.0127**	**18.557**
Stddev	.00005	.00040	.00011	.0021	.000
%RSD	137.30	12.466	52.859	16.23	.00052
#1	-.00008	.00346	-.00013	-.0113	18.557
#2	-.00000	.00290	-.00028	-.0142	18.557
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9341**	**.00593**	**-.00000**	**.00746**	**.00000**
Stddev	.0080	.00008	.00138	.00122	.00055
%RSD	.08062	1.4239	28423.	16.314	24300.
#1	9.9398	.00587	.00097	.00832	.00039
#2	9.9284	.00599	-.00098	.00660	-.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 6/9/2022 12:55:32 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00701**	F **.00855**	**-.00129**	**-.01136**	**9.4485**
Stddev	.00128	.00007	.00022	.00231	.0070
%RSD	18.269	.82134	17.296	20.370	.07421
#1	-.00791	.00860	-.00114	-.00972	9.4535
#2	-.00610	.00850	-.00145	-.01299	9.4435
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.00300			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00280**	**.00817**	**.00337**	**-.00258**
Stddev	.00	.00056	.00035	.00014	.00597
%RSD	.0015	20.028	4.3361	4.1230	231.44
#1	25.00	-.00319	.00842	.00327	.00164
#2	25.00	-.00240	.00792	.00347	-.00680
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.15277**	**-.00124**	**-.00001**	**.9968**	**.00347**
Stddev	.00093	.00031	.00003	.0048	.00019
%RSD	.61169	24.879	235.77	.4802	5.4121
#1	-.15343	-.00146	.00001	1.000	.00333
#2	-.15211	-.00102	-.00004	.9934	.00360
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 6/9/2022 12:55:32 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.01894**	**-.00004**	**-.00236**	**.9975**
Stddev	.00065	.00025	.00014	.0006
%RSD	3.4590	634.52	6.0127	.0591
#1	.01847	.00013	-.00226	.9979
#2	.01940	-.00021	-.00246	.9970
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3951.0**	**3525.7**	**72039.**	**6155.7**
Stddev	2.1	1.1	170.	2.6
%RSD	.05242	.03070	.23617	.04255
#1	3949.5	3525.0	71918.	6153.8
#2	3952.5	3526.5	72159.	6157.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.080%	99.833%	99.852%	100.45%
Range				

Sample Name: ICEX5 Acquired: 6/9/2022 12:59:23 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.11370**	**.00212**	**.01424**	**-.00008**
Stddev	.00030	.01008	.00132	.00015	.00001
%RSD	128.26	8.8629	62.399	1.0486	10.777
#1	.00044	.10658	.00118	.01434	-.00007
#2	.00002	.12083	.00305	.01413	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00772**	**.00015**	**-.0137**	**-.00076**
Stddev	.00005	.00109	.00017	.0014	.00011
%RSD	77.815	14.170	116.38	9.944	14.461
#1	-.00003	.00849	.00027	-.0128	-.00068
#2	-.00009	.00695	.00003	-.0147	-.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**-.00160**	**-.00005**	**.01322**	**.00128**
Stddev	.00024	.00019	.00103	.01930	.00227
%RSD	36.855	11.620	2176.7	145.97	177.79
#1	-.00048	-.00147	-.00077	-.00043	-.00033
#2	-.00081	-.00173	.00068	.02687	.00288
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 6/9/2022 12:59:23 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.06255**	**.00046**	**5.1779**	**-.02019**	**-.00012**
Stddev	.00200	.00002	.0151	.00299	.00007
%RSD	3.2042	5.1746	.29126	14.786	56.617
#1	-.06397	.00044	5.1885	-.01808	-.00007
#2	-.06114	.00048	5.1672	-.02230	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00179**	**-.03452**	**.00012**	**-.00466**
Stddev	.00	.00097	.00003	.00212	.00130
%RSD	.0007	54.456	.08227	1744.0	27.870
#1	25.01	.00110	-.03454	-.00138	-.00558
#2	25.01	.00248	-.03450	.00162	-.00374
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11229**	**-.00048**	**.00002**	**.9986**	**-.00175**
Stddev	.01364	.00120	.00003	.0003	.00032
%RSD	12.149	249.21	141.31	.0287	18.035
#1	.10264	.00037	.00005	.9988	-.00197
#2	.12194	-.00133	.00000	.9984	-.00153
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 6/9/2022 12:59:23 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00287**	**.00221**	**.00023**	**.9991**
Stddev	.00049	.00028	.00025	.0004
%RSD	17.013	12.899	107.75	.0434
#1	.00322	.00241	.00006	.9994
#2	.00253	.00201	.00041	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3962.2**	**3545.2**	**72041.**	**6103.4**
Stddev	4.5	7.2	334.	3.8
%RSD	.11318	.20289	.46343	.06146
#1	3959.0	3540.1	72277.	6106.0
#2	3965.3	3550.3	71805.	6100.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.360%	100.38%	99.855%	99.600%
Range				

Sample Name: CCV-7024752 Acquired: 6/9/2022 13:03:16 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97484**	**49.112**	**.99144**	**1.0091**	**.98753**
Stddev	.00005	.135	.00554	.0032	.00123
%RSD	.00527	.27580	.55928	.31748	.12447
#1	.97488	49.016	.99537	1.0069	.98666
#2	.97481	49.207	.98752	1.0114	.98840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98913**	**49.579**	**.99242**	**.9834**	**.98909**
Stddev	.00108	.042	.00014	.0005	.00149
%RSD	.10925	.08395	.01393	.0501	.15070
#1	.98837	49.609	.99252	.9830	.99015
#2	.98989	49.550	.99232	.9837	.98804
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99518**	**.98048**	**50.065**	**49.362**	**.96620**
Stddev	.00317	.00178	.091	.052	.00048
%RSD	.31898	.18190	.18257	.10503	.04989
#1	.99293	.98174	50.000	49.326	.96586
#2	.99742	.97922	50.130	49.399	.96654
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 13:03:16 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.612**	**.99618**	**.99908**	**49.171**	**.98893**
Stddev	.025	.00007	.00016	.036	.00205
%RSD	.05046	.00655	.01638	.07351	.20694
#1	49.595	.99613	.99896	49.146	.99038
#2	49.630	.99623	.99919	49.197	.98748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.58**	**.99248**	**24.859**	**.98342**	**.98319**
Stddev	.01	.00357	.031	.00535	.01407
%RSD	.0281	.35973	.12645	.54434	1.4307
#1	37.57	.99501	24.836	.98720	.99314
#2	37.58	.98996	24.881	.97963	.97324
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7626**	**.98859**	**.98825**	**1.497**	**.98929**
Stddev	.0244	.00095	.00099	.002	.00088
%RSD	.24969	.09588	.10034	.1001	.08889
#1	9.7454	.98792	.98755	1.496	.98867
#2	9.7799	.98926	.98895	1.498	.98991
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 13:03:16 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99745**	**.98979**	**1.0236**	**1.496**
Stddev	.00388	.00013	.0007	.001
%RSD	.38912	.01326	.06439	.0669
#1	1.0002	.98988	1.0240	1.495
#2	.99471	.98970	1.0231	1.497
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3466.7**	**3404.3**	**68229.**	**5995.0**
Stddev	2.0	5.6	89.	2.8
%RSD	.05876	.16556	.12988	.04654
#1	3465.3	3408.3	68166.	5996.9
#2	3468.2	3400.3	68291.	5993.0

Sample Name: CCB-7026764 Acquired: 6/9/2022 13:06:56 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00735**	**-.00115**	**.00049**	**.00005**
Stddev	.00052	.02347	.00007	.00029	.00000
%RSD	385.44	319.24	6.2829	59.302	6.5977
#1	.00023	.00924	-.00120	.00029	.00005
#2	-.00051	-.02395	-.00110	.00070	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00424**	**.00016**	**-.0010**	**-.00007**
Stddev	.00002	.00174	.00002	.0364	.00004
%RSD	55.237	40.937	15.328	3763.	49.803
#1	.00002	.00547	.00017	.0248	-.00010
#2	.00005	.00301	.00014	-.0267	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.00065**	**.00755**	**.01638**	**.00178**
Stddev	.00061	.00043	.00062	.01451	.00085
%RSD	134.31	66.565	8.1541	88.584	47.895
#1	-.00002	.00034	.00799	.02664	.00238
#2	-.00088	.00095	.00712	.00612	.00117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 13:06:56 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00129**	**.00008**	**.00424**	**-.01147**	**.00012**
Stddev	.00104	.00003	.00083	.00341	.00009
%RSD	80.458	36.408	19.478	29.729	73.868
#1	-.00202	.00006	.00365	-.00906	.00006
#2	-.00056	.00010	.00482	-.01389	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00051**	**-.00763**	**-.00105**	**.00319**
Stddev	.00	.00036	.00034	.00049	.00054
%RSD	.0022	70.229	4.3937	46.609	17.039
#1	25.00	-.00026	-.00786	-.00139	.00358
#2	25.00	-.00076	-.00739	-.00070	.00281
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01436**	**.00044**	**.00003**	**1.000**	**.00129**
Stddev	.00135	.00014	.00005	.004	.00047
%RSD	9.4292	32.339	169.38	.4279	36.456
#1	-.01532	.00034	-.00001	.9970	.00163
#2	-.01341	.00054	.00006	1.003	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 13:06:56 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00190**	**-.00006**	**-.00026**	**.9997**
Stddev	.00071	.00011	.00001	.0006
%RSD	37.125	165.15	4.8201	.0598
#1	.00240	-.00014	-.00027	1.000
#2	.00140	.00001	-.00025	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3962.9**	**3518.3**	**71807.**	**6034.0**
Stddev	2.2	7.7	113.	9.2
%RSD	.05446	.21898	.15804	.15229
#1	3961.3	3512.9	71887.	6040.5
#2	3964.4	3523.8	71727.	6027.5

Sample Name: CCVL-7019501 Acquired: 6/9/2022 13:10:51 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00513**	**.16012**	**.01323**	**.01869**	**.00208**
Stddev	.00006	.01656	.00074	.00024	.00001
%RSD	1.2168	10.341	5.5629	1.2749	.43188
#1	.00509	.14841	.01376	.01886	.00208
#2	.00517	.17182	.01271	.01853	.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00197**	**.49441**	**.00194**	**-.0355**	**.00385**
Stddev	.00005	.00049	.00004	.0055	.00016
%RSD	2.3569	.09895	2.1334	15.58	4.2103
#1	.00194	.49476	.00191	-.0394	.00396
#2	.00201	.49407	.00196	-.0316	.00373
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00326**	**.01081**	**.04814**	**.45515**	**.02745**
Stddev	.00016	.00008	.00240	.02091	.00021
%RSD	5.0287	.74348	4.9921	4.5940	.78241
#1	.00338	.01076	.04644	.46994	.02730
#2	.00315	.01087	.04984	.44036	.02760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7019501 Acquired: 6/9/2022 13:10:51 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19522**	**.00299**	**.01002**	**.92791**	**.00970**
Stddev	.00354	.00001	.00017	.00145	.00016
%RSD	1.8159	.25792	1.7418	.15680	1.6368
#1	.19773	.00300	.00990	.92894	.00959
#2	.19272	.00299	.01015	.92688	.00982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00898**	**.17444**	**.02000**	**.02049**
Stddev	.00	.00020	.00337	.00198	.00140
%RSD	.0025	2.2233	1.9304	9.8978	6.8243
#1	25.00	.00912	.17206	.02140	.01950
#2	25.00	.00884	.17682	.01860	.02148
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44548**	**.00852**	**.00496**	F **.9996**	**.00448**
Stddev	.00767	.00097	.00005	.0058	.00011
%RSD	1.7224	11.338	1.0713	.5794	2.3843
#1	.44005	.00921	.00500	.9955	.00441
#2	.45090	.00784	.00492	1.004	.00456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7019501 Acquired: 6/9/2022 13:10:51 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01999**	**.00449**	**.00720**	F **.9994**
Stddev	.00122	.00016	.00018	.0001
%RSD	6.1249	3.6013	2.4944	.0072
#1	.02086	.00438	.00733	.9993
#2	.01912	.00461	.00707	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3964.3**	**3532.6**	**71669.**	**6114.1**
Stddev	1.2	1.2	307.	9.4
%RSD	.02941	.03442	.42905	.15298
#1	3965.1	3533.5	71451.	6120.7
#2	3963.5	3531.7	71886.	6107.5

Sample Name: IDL1 Acquired: 6/9/2022 13:14:43 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.01898**	**-.00178**	**-.00015**	**-.00001**
Stddev	.00074	.00449	.00016	.00057	.00001
%RSD	515.78	23.677	8.7003	372.87	49.072
#1	-.00067	-.02215	-.00189	.00025	-.00002
#2	.00038	-.01580	-.00167	-.00056	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00130**	**.00004**	**.0037**	**-.00001**
Stddev	.00002	.00138	.00002	.0082	.00006
%RSD	47.396	105.97	54.207	225.0	526.12
#1	.00006	-.00033	.00005	-.0022	.00003
#2	.00003	-.00227	.00002	.0095	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00015**	**-.00136**	**-.01024**	**.00029**
Stddev	.00012	.00000	.00103	.01239	.00008
%RSD	228.11	.14476	76.308	120.93	28.906
#1	.00014	-.00015	-.00062	-.00148	.00035
#2	-.00003	-.00015	-.00209	-.01900	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL1 Acquired: 6/9/2022 13:14:43 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00010**	**-.00079**	**-.01335**	**.00005**
Stddev	.00204	.00006	.00034	.00010	.00009
%RSD	825.86	65.629	42.415	.77491	165.79
#1	.00169	.00005	-.00103	-.01327	.00011
#2	-.00120	.00014	-.00056	-.01342	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00162**	**-.00978**	**-.00117**	**-.00339**
Stddev	.00	.00085	.00088	.00055	.00326
%RSD	.0002	52.072	8.9899	47.455	96.319
#1	25.00	-.00103	-.01040	-.00156	-.00108
#2	25.00	-.00222	-.00916	-.00078	-.00569
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02363**	**-.00127**	**.00003**	**.9965**	**-.00024**
Stddev	.01245	.00021	.00007	.0062	.00003
%RSD	52.668	16.151	267.54	.6201	12.464
#1	-.03243	-.00113	-.00002	1.001	-.00022
#2	-.01483	-.00142	.00007	.9921	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL1 Acquired: 6/9/2022 13:14:43 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00106**	**-.00034**	**-.00037**	**.9994**
Stddev	.00018	.00028	.00038	.0002
%RSD	16.914	81.620	101.76	.0221
#1	.00119	-.00053	-.00010	.9993
#2	.00093	-.00014	-.00064	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4016.0**	**3545.8**	**71976.**	**6102.2**
Stddev	8.7	9.0	116.	15.1
%RSD	.21547	.25244	.16113	.24692
#1	4009.9	3539.5	71894.	6091.6
#2	4022.1	3552.1	72058.	6112.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.71%	100.40%	99.766%	99.582%
Range				

Sample Name: IDL2 Acquired: 6/9/2022 13:18:36 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**-.03177**	**-.00143**	**-.00025**	**.00000**
Stddev	.00023	.00876	.00167	.00044	.00002
%RSD	60.897	27.592	116.85	174.35	1078.0
#1	-.00022	-.03796	-.00261	.00006	.00001
#2	-.00055	-.02557	-.00025	-.00057	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00093**	**.00001**	**-.0058**	**-.00008**
Stddev	.00000	.00043	.00001	.0084	.00009
%RSD	5.5199	45.776	79.025	144.2	116.30
#1	.00005	.00123	.00001	.0001	-.00001
#2	.00005	.00063	.00002	-.0118	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00003**	**-.00252**	**.01459**	**.00112**
Stddev	.00034	.00009	.00025	.00065	.00000
%RSD	1283.7	347.35	9.7753	4.4519	.22189
#1	-.00021	-.00004	-.00270	.01413	.00112
#2	.00027	.00009	-.00235	.01505	.00113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL2 Acquired: 6/9/2022 13:18:36 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00006**	**-.00078**	**-.02051**	**-.00004**
Stddev	.00097	.00002	.00025	.00583	.00016
%RSD	737.37	36.473	31.814	28.422	396.74
#1	.00082	.00008	-.00096	-.02463	-.00016
#2	-.00056	.00005	-.00061	-.01639	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00119**	**-.01271**	**-.00121**	**-.00268**
Stddev	.00	.00077	.00119	.00112	.00086
%RSD	.0016	64.471	9.3626	92.619	32.004
#1	25.00	-.00173	-.01186	-.00042	-.00207
#2	25.00	-.00065	-.01355	-.00200	-.00328
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02116**	**-.00045**	**-.00004**	**.9993**	**-.00022**
Stddev	.01019	.00035	.00005	.0049	.00026
%RSD	48.170	77.405	124.11	.4908	118.69
#1	-.01395	-.00020	-.00008	1.003	-.00040
#2	-.02837	-.00070	-.00001	.9958	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL2 Acquired: 6/9/2022 13:18:36 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00059**	**-.00047**	**.00010**	**.9988**
Stddev	.00124	.00006	.00003	.0001
%RSD	209.15	12.723	25.969	.0068
#1	.00147	-.00043	.00009	.9989
#2	-.00028	-.00052	.00012	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4001.2**	**3539.7**	**72277.**	**6077.1**
Stddev	2.3	.8	23.	2.2
%RSD	.05704	.02334	.03232	.03549
#1	3999.6	3539.2	72261.	6075.5
#2	4002.8	3540.3	72294.	6078.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.34%	100.23%	100.18%	99.171%
Range				

Sample Name: IDL3 Acquired: 6/9/2022 13:22:29 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.01769**	**-.00178**	**-.00007**	**.00000**
Stddev	.00045	.01592	.00073	.00029	.00001
%RSD	447.01	89.996	41.066	396.55	26415.
#1	-.00042	-.00643	-.00230	.00013	.00001
#2	.00022	-.02894	-.00126	-.00028	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00105**	**.00007**	**-.0161**	**-.00010**
Stddev	.00008	.00140	.00001	.0229	.00001
%RSD	124.86	133.93	11.469	142.8	13.788
#1	.00001	.00006	.00007	.0002	-.00011
#2	.00012	.00204	.00006	-.0323	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00030**	**-.00010**	**.00104**	**.00051**
Stddev	.00022	.00049	.00009	.04820	.00060
%RSD	84.657	160.64	94.257	4613.9	117.52
#1	-.00041	.00065	-.00017	-.03304	.00009
#2	-.00010	-.00004	-.00003	.03513	.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL3 Acquired: 6/9/2022 13:22:29 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00198**	**.00007**	**-.00146**	**-.01956**	**.00012**
Stddev	.00047	.00002	.00025	.00753	.00015
%RSD	23.510	24.025	17.410	38.502	120.82
#1	.00231	.00005	-.00128	-.01424	.00023
#2	.00165	.00008	-.00164	-.02489	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00054**	**-.01458**	**-.00126**	**-.00598**
Stddev	.00	.00014	.00573	.00114	.00082
%RSD	.0050	25.990	39.292	90.342	13.644
#1	25.00	.00044	-.01863	-.00207	-.00541
#2	25.00	.00064	-.01053	-.00046	-.00656
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01291**	**-.00069**	**-.00004**	**1.000**	**-.00017**
Stddev	.00096	.00006	.00008	.003	.00011
%RSD	7.4631	8.1194	201.52	.2499	66.823
#1	-.01359	-.00073	.00002	.9984	-.00024
#2	-.01223	-.00065	-.00010	1.002	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL3 Acquired: 6/9/2022 13:22:29 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00008**	**-.00022**	**-.00032**	**.9988**
Stddev	.00040	.00021	.00013	.0001
%RSD	480.76	93.500	41.891	.0072
#1	-.00020	-.00008	-.00041	.9989
#2	.00037	-.00037	-.00022	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4004.1**	**3531.5**	**71744.**	**6100.8**
Stddev	1.6	1.6	90.	15.8
%RSD	.03948	.04421	.12532	.25947
#1	4003.0	3530.4	71681.	6112.0
#2	4005.2	3532.7	71808.	6089.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.41%	99.998%	99.444%	99.559%
Range				

Sample Name: IDL4 Acquired: 6/9/2022 13:26:22 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**-.01706**	**-.00100**	**-.00070**	**-.00003**
Stddev	.00052	.02618	.00123	.00013	.00000
%RSD	103.38	153.40	122.97	18.971	5.6755
#1	-.00013	-.03557	-.00188	-.00060	-.00003
#2	-.00086	.00145	-.00013	-.00079	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00091**	**-.00010**	**.0046**	**-.00009**
Stddev	.00004	.00157	.00003	.0083	.00022
%RSD	441.64	173.30	30.426	181.8	255.45
#1	.00004	.00020	-.00012	.0105	.00007
#2	-.00002	-.00202	-.00008	-.0013	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00033**	**-.00028**	**.00469**	**-.00126**
Stddev	.00001	.00026	.00113	.04429	.00242
%RSD	26.656	79.784	410.42	945.14	192.03
#1	-.00003	.00014	-.00108	-.02663	-.00297
#2	-.00005	.00052	.00052	.03600	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL4 Acquired: 6/9/2022 13:26:22 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00002**	**-.00137**	**-.01512**	**.00013**
Stddev	.00249	.00001	.00024	.00643	.00025
%RSD	862.74	57.293	17.348	42.489	196.36
#1	-.00205	.00003	-.00120	-.01058	.00030
#2	.00147	.00001	-.00154	-.01967	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00029**	**-.01530**	**-.00265**	**-.00372**
Stddev	.00	.00046	.00235	.00147	.00083
%RSD	.0014	158.80	15.376	55.609	22.242
#1	25.00	-.00061	-.01697	-.00369	-.00431
#2	25.00	.00004	-.01364	-.00161	-.00314
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02149**	**-.00077**	**.00004**	**.9996**	**-.00032**
Stddev	.00045	.00035	.00005	.0093	.00017
%RSD	2.0966	45.422	116.52	.9253	52.243
#1	-.02117	-.00101	.00008	1.006	-.00044
#2	-.02181	-.00052	.00001	.9931	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL4 Acquired: 6/9/2022 13:26:22 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	.00068	-.00016	-.00008	.9989
Stddev	.00075	.00013	.00033	.0010
%RSD	111.17	80.550	405.49	.0977
#1	.00121	-.00026	-.00031	.9995
#2	.00014	-.00007	.00015	.9982
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4006.7	3537.6	71893.	6081.4
Stddev	1.1	.0	36.	20.9
%RSD	.02702	.00046	.04995	.34359
#1	4007.5	3537.6	71868.	6066.7
#2	4006.0	3537.6	71919.	6096.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.48%	100.17%	99.651%	99.242%
Range				

Sample Name: IDL5 Acquired: 6/9/2022 13:30:15 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**-.03328**	**-.00223**	**-.00059**	**-.00001**
Stddev	.00011	.00483	.00177	.00043	.00002
%RSD	27.005	14.501	79.425	72.797	343.38
#1	-.00034	-.03670	-.00098	-.00028	-.00002
#2	-.00050	-.02987	-.00348	-.00089	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00032**	**-.00007**	**-.0136**	**.00002**
Stddev	.00006	.00223	.00007	.0127	.00002
%RSD	210.19	706.87	100.58	93.51	125.79
#1	-.00001	.00126	-.00011	-.0046	.00000
#2	.00007	-.00189	-.00002	-.0225	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.00025**	**-.00132**	**.00584**	**-.00057**
Stddev	.00043	.00004	.00080	.00989	.00234
%RSD	173.40	16.646	60.029	169.51	413.24
#1	-.00056	.00022	-.00076	.01283	.00109
#2	.00006	.00028	-.00189	-.00116	-.00222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL5 Acquired: 6/9/2022 13:30:15 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00245**	**.00003**	**-.00163**	**-.01418**	**.00000**
Stddev	.00215	.00003	.00012	.00616	.00018
%RSD	87.675	100.47	7.3548	43.426	14068.
#1	-.00093	.00005	-.00171	-.00983	-.00013
#2	-.00397	.00001	-.00155	-.01854	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00012**	**-.01501**	**-.00127**	**-.00432**
Stddev	.00	.00072	.00051	.00097	.00262
%RSD	.0034	589.56	3.4143	76.487	60.723
#1	25.00	-.00039	-.01465	-.00058	-.00617
#2	25.00	.00063	-.01537	-.00196	-.00246
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02613**	**-.00050**	**.00005**	**.9965**	**-.00040**
Stddev	.00801	.00048	.00005	.0003	.00018
%RSD	30.657	96.853	100.96	.0348	45.769
#1	-.02047	-.00084	.00009	.9967	-.00027
#2	-.03180	-.00016	.00001	.9962	-.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL5 Acquired: 6/9/2022 13:30:15 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00154**	**-.00022**	**-.00012**	**.9997**
Stddev	.00153	.00011	.00097	.0005
%RSD	99.588	48.563	787.62	.0487
#1	.00045	-.00014	-.00081	1.000
#2	.00262	-.00029	.00056	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4012.3**	**3545.7**	**72123.**	**6089.9**
Stddev	4.4	.6	51.	.8
%RSD	.11028	.01773	.07021	.01261
#1	4015.5	3546.2	72087.	6090.4
#2	4009.2	3545.3	72159.	6089.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.62%	100.40%	99.969%	99.380%
Range				

Sample Name: IDL6 Acquired: 6/9/2022 13:34:08 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00098**	**-.02400**	**-.00192**	**-.00055**	**-.00001**
Stddev	.00016	.00865	.00308	.00049	.00001
%RSD	16.382	36.039	160.19	89.496	53.427
#1	-.00109	-.01788	.00025	-.00020	-.00002
#2	-.00086	-.03012	-.00409	-.00090	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00082**	**-.00001**	**-.0197**	**.00004**
Stddev	.00007	.00182	.00014	.0233	.00021
%RSD	478.82	221.82	1096.6	118.2	540.39
#1	-.00007	.00211	-.00011	-.0362	.00019
#2	.00004	-.00047	.00009	-.0032	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.00053**	**-.00100**	**-.01239**	**-.00175**
Stddev	.00032	.00027	.00094	.02844	.00007
%RSD	134.51	50.291	94.032	229.53	4.1212
#1	-.00001	.00034	-.00034	-.03250	-.00180
#2	-.00046	.00072	-.00167	.00772	-.00170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL6 Acquired: 6/9/2022 13:34:08 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**.00003**	**-.00139**	**-.01777**	**.00001**
Stddev	.00294	.00008	.00020	.00271	.00019
%RSD	672.40	225.41	14.264	15.274	1429.5
#1	-.00164	.00009	-.00153	-.01969	-.00012
#2	.00252	-.00002	-.00125	-.01585	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00006**	**-.01491**	**-.00195**	**-.00408**
Stddev	.00	.00049	.00514	.00284	.00247
%RSD	.0027	818.12	34.469	145.67	60.503
#1	25.00	.00028	-.01854	-.00395	-.00583
#2	25.00	-.00040	-.01127	.00006	-.00233
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02769**	**-.00007**	**-.00000**	**.9967**	**-.00020**
Stddev	.00967	.00005	.00007	.0015	.00031
%RSD	34.905	69.008	4993.6	.1516	154.04
#1	-.03453	-.00003	-.00005	.9957	-.00042
#2	-.02086	-.00010	.00005	.9978	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL6 Acquired: 6/9/2022 13:34:08 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00017**	**-.00001**	**-.00021**	**.9993**
Stddev	.00010	.00008	.00025	.0011
%RSD	59.536	513.33	114.88	.1110
#1	.00024	.00004	-.00039	1.000
#2	.00010	-.00007	-.00004	.9985
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4003.4**	**3529.4**	**71500.**	**6103.0**
Stddev	1.7	3.8	33.	32.8
%RSD	.04260	.10742	.04642	.53676
#1	4002.2	3526.7	71477.	6126.2
#2	4004.6	3532.1	71524.	6079.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.39%	99.938%	99.106%	99.594%
Range				

Sample Name: IDL7 Acquired: 6/9/2022 13:38:02 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**-.04006**	**.00007**	**-.00088**	**-.00000**
Stddev	.00018	.00972	.00116	.00038	.00001
%RSD	42.252	24.258	1608.2	42.897	104.21
#1	-.00055	-.04694	-.00075	-.00062	-.00000
#2	-.00030	-.03319	.00089	-.00115	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00054**	**.00005**	**-.0357**	**.00002**
Stddev	.00002	.00179	.00009	.0208	.00016
%RSD	90.660	333.65	175.95	58.08	1049.7
#1	-.00001	-.00073	.00012	-.0504	.00013
#2	-.00003	.00181	-.00001	-.0211	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.00008**	**-.00231**	**-.00171**	**.00210**
Stddev	.00025	.00035	.00108	.01982	.00075
%RSD	68.872	460.48	46.953	1157.7	35.639
#1	-.00054	-.00017	-.00308	.01230	.00157
#2	-.00019	.00032	-.00154	-.01573	.00262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL7 Acquired: 6/9/2022 13:38:02 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00082**	**.00002**	**-.00122**	**-.02793**	**.00002**
Stddev	.00228	.00002	.00008	.00626	.00014
%RSD	277.18	120.26	6.9720	22.429	550.35
#1	.00079	.00000	-.00116	-.03236	-.00007
#2	-.00244	.00003	-.00128	-.02350	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00070**	**-.01553**	**-.00121**	**-.00404**
Stddev	.00	.00027	.00027	.00074	.00060
%RSD	.0013	38.165	1.7629	60.716	14.861
#1	25.00	-.00051	-.01573	-.00174	-.00362
#2	25.00	-.00089	-.01534	-.00069	-.00447
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02577**	**-.00075**	**.00004**	**.9983**	**-.00054**
Stddev	.00510	.00115	.00013	.0019	.00013
%RSD	19.783	152.69	297.69	.1944	24.687
#1	-.02937	.00006	.00014	.9996	-.00064
#2	-.02216	-.00157	-.00005	.9969	-.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL7 Acquired: 6/9/2022 13:38:02 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00127**	**-.00042**	**.00003**	**.9995**
Stddev	.00025	.00028	.00029	.0002
%RSD	19.704	67.402	827.55	.0217
#1	.00144	-.00062	.00024	.9994
#2	.00109	-.00022	-.00017	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3996.1**	**3524.1**	**71380.**	**6118.2**
Stddev	.8	.6	149.	9.9
%RSD	.01959	.01739	.20897	.16254
#1	3996.7	3523.7	71485.	6125.2
#2	3995.6	3524.6	71275.	6111.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.21%	99.789%	98.939%	99.842%
Range				

Sample Name: 197950-1@10 Acquired: 6/9/2022 13:41:55 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **2.3553**	**23.460**	**4.2170**	**9.3239**	**6.3581**
Stddev	.0019	.018	.0124	.0019	.0261
%RSD	.07862	.07684	.29525	.02014	.41001
#1	2.3540	23.473	4.2258	9.3252	6.3765
#2	2.3566	23.448	4.2082	9.3225	6.3397
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000				
Low Limit	-.00600				

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.7400**	**.01180**	F **6.8020**	**-.1884**	**7.3150**
Stddev	.0063	.00040	.0147	.0245	.0142
%RSD	.23088	3.3908	.21677	13.00	.19460
#1	2.7445	.01209	6.8124	-.1710	7.3250
#2	2.7355	.01152	6.7916	-.2057	7.3049
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			4.5000		
Low Limit			-.00200		

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.5753**	**9.5732**	**6.3807**	**-.00159**	**-.00005**
Stddev	.0185	.0386	.0027	.00475	.00029
%RSD	.24385	.40271	.04235	298.28	560.76
#1	7.5622	9.5459	6.3826	-.00495	.00016
#2	7.5883	9.6004	6.3788	.00177	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 197950-1@10 Acquired: 6/9/2022 13:41:55 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03017**	**12.044**	**1.8368**	**.31554**	F **14.905**
Stddev	.00149	.041	.0099	.00034	.030
%RSD	4.9499	.33687	.53912	.10902	.20135
#1	-.02911	12.016	1.8438	.31529	14.926
#2	-.03122	12.073	1.8298	.31578	14.884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.01000

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**9.3527**	**-.02964**	**2.5503**	**3.3967**
Stddev	.00	.0120	.00206	.0332	.0172
%RSD	.0025	.12806	6.9610	1.3015	.50620
#1	25.04	9.3611	-.03110	2.5738	3.4088
#2	25.04	9.3442	-.02819	2.5268	3.3845
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5750**	**-.00201**	**3.7755**	**1.002**	**-.00325**
Stddev	.0053	.00066	.0075	.003	.00026
%RSD	.33910	32.892	.19973	.2934	7.9480
#1	1.5713	-.00154	3.7809	.9997	-.00307
#2	1.5788	-.00248	3.7702	1.004	-.00343
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 197950-1@10 Acquired: 6/9/2022 13:41:55 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**7.6193**	F **8.3585**	**6.7452**	**.9981**
Stddev	.0058	.0231	.0033	.0009
%RSD	.07629	.27576	.04880	.0872
#1	7.6152	8.3422	6.7429	.9987
#2	7.6234	8.3748	6.7476	.9975
Check ?	Chk Pass	Chk Fail	Chk Pass	None
High Limit		4.5000		
Low Limit		-.00500		
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3762.9**	**3443.4**	**69412.**	**6005.8**
Stddev	.0	3.3	17.	11.5
%RSD	.00060	.09659	.02472	.19148
#1	3762.8	3441.1	69424.	5997.7
#2	3762.9	3445.8	69400.	6014.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.362%	97.503%	96.211%	98.009%
Range				

Sample Name: 180931-1@10 Acquired: 6/9/2022 13:45:52 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **2.3925**	**23.783**	**4.2663**	**9.3225**	**6.4592**
Stddev	.0016	.000	.0250	.0129	.0363
%RSD	.06786	.00116	.58635	.13805	.56234
#1	2.3913	23.783	4.2840	9.3316	6.4335
#2	2.3936	23.783	4.2486	9.3134	6.4848
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000				
Low Limit	-.00600				

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.7738**	**.01037**	F **6.8658**	**-.1835**	**7.3726**
Stddev	.0000	.00332	.0181	.0165	.0235
%RSD	.00138	32.026	.26419	8.971	.31899
#1	2.7739	.01272	6.8786	-.1952	7.3892
#2	2.7738	.00803	6.8529	-.1719	7.3559
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			4.5000		
Low Limit			-.00200		

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.6642**	**9.6977**	**6.4517**	**-.02275**	**-.00039**
Stddev	.0035	.0014	.0013	.01910	.00021
%RSD	.04520	.01425	.01961	83.940	53.530
#1	7.6617	9.6968	6.4526	-.03626	-.00054
#2	7.6666	9.6987	6.4508	-.00925	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 180931-1@10 Acquired: 6/9/2022 13:45:52 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03080**	**12.168**	**1.8636**	**.25130**	F **15.028**
Stddev	.00335	.013	.0135	.00133	.052
%RSD	10.888	.11001	.72581	.53069	.34297
#1	-.03317	12.177	1.8732	.25224	15.065
#2	-.02842	12.158	1.8540	.25035	14.992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.01000

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**9.4184**	**-.02836**	**2.4472**	**3.4541**
Stddev	.00	.0197	.00108	.0637	.0215
%RSD	.0045	.20927	3.7924	2.6033	.62090
#1	25.04	9.4323	-.02760	2.4922	3.4693
#2	25.05	9.4044	-.02912	2.4021	3.4390
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0262**	**-.00097**	**3.8212**	**.9979**	**-.00358**
Stddev	.0021	.00019	.0048	.0015	.00002
%RSD	.20082	19.913	.12628	.1536	.67229
#1	1.0247	-.00110	3.8246	.9968	-.00356
#2	1.0276	-.00083	3.8178	.9989	-.00360
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 180931-1@10 Acquired: 6/9/2022 13:45:52 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**7.6762**	F **8.4517**	**6.8059**	**.9974**
Stddev	.0191	.0088	.0099	.0001
%RSD	.24896	.10350	.14485	.0145
#1	7.6898	8.4579	6.8128	.9975
#2	7.6627	8.4455	6.7989	.9973
Check ?	Chk Pass	Chk Fail	Chk Pass	None
High Limit		4.5000		
Low Limit		-.00500		
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3737.2**	**3413.6**	**68745.**	**5971.6**
Stddev	1.5	.1	4.	8.1
%RSD	.04060	.00167	.00537	.13615
#1	3736.1	3413.6	68747.	5977.4
#2	3738.2	3413.7	68742.	5965.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.717%	96.659%	95.286%	97.450%
Range				

Sample Name: CCV-7024752 Acquired: 6/9/2022 13:49:51 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99500**	**49.444**	**1.0027**	**1.0281**	**.98034**
Stddev	.00554	.012	.0020	.0016	.00134
%RSD	.55728	.02516	.19504	.15757	.13631
#1	.99108	49.435	1.0041	1.0293	.98128
#2	.99893	49.452	1.0013	1.0270	.97939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98876**	**49.857**	**.99804**	**.9464**	**.98683**
Stddev	.00023	.141	.00049	.0104	.00061
%RSD	.02369	.28233	.04933	1.098	.06160
#1	.98859	49.758	.99839	.9538	.98726
#2	.98892	49.957	.99769	.9391	.98640
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0006**	**.99835**	**50.459**	**49.529**	**.96726**
Stddev	.0021	.00167	.231	.044	.00057
%RSD	.20553	.16691	.45751	.08907	.05917
#1	.99912	.99953	50.296	49.560	.96766
#2	1.0020	.99718	50.622	49.498	.96685
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 13:49:51 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.347**	**1.0097**	**1.0044**	**49.108**	**.99315**
Stddev	.076	.0010	.0023	.025	.00140
%RSD	.15147	.09430	.22757	.05121	.14120
#1	50.293	1.0090	1.0060	49.126	.99414
#2	50.401	1.0104	1.0027	49.090	.99216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.55**	**.99695**	**24.913**	**1.0981**	**1.0104**
Stddev	.03	.00266	.017	.0103	.0106
%RSD	.0743	.26692	.06841	.93721	1.0446
#1	37.57	.99883	24.925	1.0908	1.0179
#2	37.53	.99507	24.901	1.1054	1.0029
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7754**	**.99198**	**.99349**	**1.506**	**.99500**
Stddev	.0820	.00544	.00121	.001	.00091
%RSD	.83877	.54807	.12138	.0900	.09152
#1	9.7174	.99582	.99434	1.505	.99436
#2	9.8333	.98813	.99264	1.507	.99564
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 13:49:51 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0045**	**1.0034**	**1.0286**	**1.501**
Stddev	.0027	.0009	.0052	.002
%RSD	.26785	.08952	.50530	.1115
#1	1.0064	1.0028	1.0249	1.500
#2	1.0026	1.0040	1.0322	1.502
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3432.7**	**3354.7**	**66887.**	**5933.3**
Stddev	7.3	6.3	87.	30.5
%RSD	.21328	.18833	.12977	.51429
#1	3427.5	3350.2	66949.	5954.9
#2	3437.8	3359.1	66826.	5911.8

Sample Name: CCB-7026764 Acquired: 6/9/2022 13:53:32 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.03002**	**.00420**	**.00734**	**.00008**
Stddev	.00048	.00232	.00018	.00026	.00001
%RSD	1627.3	7.7175	4.3090	3.5287	11.564
#1	.00031	-.03165	.00433	.00753	.00007
#2	-.00037	-.02838	.00408	.00716	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00123**	**.00015**	**-.0112**	**-.00006**
Stddev	.00004	.00023	.00003	.0149	.00007
%RSD	169.98	18.849	23.356	132.7	109.31
#1	-.00000	.00139	.00017	-.0007	-.00001
#2	.00005	.00107	.00012	-.0218	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00002**	**.00765**	**.03554**	**-.00030**
Stddev	.00009	.00028	.00091	.05030	.00266
%RSD	35.197	1303.6	11.953	141.56	888.24
#1	-.00020	.00022	.00701	-.00003	-.00218
#2	-.00032	-.00017	.00830	.07111	.00158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 13:53:32 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00019**	**.00563**	**-.01732**	**.00013**
Stddev	.00172	.00002	.00103	.01178	.00006
%RSD	634.96	11.749	18.288	68.033	49.308
#1	-.00149	.00017	.00490	-.02565	.00008
#2	.00095	.00020	.00635	-.00899	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00001**	**-.01004**	F **.03059**	**.00630**
Stddev	.00	.00066	.00101	.00322	.00378
%RSD	.0003	4455.8	10.022	10.543	60.026
#1	25.00	-.00045	-.00933	.02831	.00363
#2	25.00	.00048	-.01075	.03287	.00898
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.02000	
Low Limit				-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01291**	**.00005**	**.00005**	**.9999**	**.00067**
Stddev	.00674	.00070	.00018	.0021	.00016
%RSD	52.185	1442.3	361.22	.2127	24.544
#1	-.00815	-.00044	.00018	.9984	.00055
#2	-.01767	.00054	-.00008	1.001	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 13:53:32 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00194**	**-.00019**	**.00014**	**.9988**
Stddev	.00050	.00019	.00029	.0006
%RSD	25.650	101.68	210.18	.0587
#1	.00229	-.00005	.00035	.9984
#2	.00159	-.00032	-.00007	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3975.6**	**3512.7**	**71241.**	**6052.1**
Stddev	4.9	2.7	163.	15.7
%RSD	.12400	.07694	.22898	.25906
#1	3972.1	3510.8	71126.	6063.1
#2	3979.1	3514.6	71357.	6041.0

Sample Name: CCVL-7019501 Acquired: 6/9/2022 13:57:25 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00571**	**.18832**	**.01682**	**.02479**	**.00213**
Stddev	.00027	.00252	.00101	.00032	.00001
%RSD	4.7898	1.3401	5.9951	1.2983	.65894
#1	.00551	.18654	.01753	.02501	.00214
#2	.00590	.19011	.01611	.02456	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.50900**	**.00198**	**-.0077**	**.00383**
Stddev	.00001	.00116	.00011	.0037	.00013
%RSD	.51366	.22743	5.3457	48.47	3.5066
#1	.00204	.50818	.00205	-.0051	.00392
#2	.00206	.50982	.00190	-.0103	.00373
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00356**	**.01039**	**.05190**	**.48450**	**.02821**
Stddev	.00020	.00068	.00082	.02619	.00024
%RSD	5.5735	6.5667	1.5797	5.4061	.85411
#1	.00370	.00991	.05132	.50302	.02804
#2	.00342	.01087	.05248	.46598	.02838
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7019501 Acquired: 6/9/2022 13:57:25 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20077**	**.00310**	**.01108**	**.95093**	**.00988**
Stddev	.00045	.00004	.00045	.00161	.00008
%RSD	.22375	1.4405	4.0835	.16907	.79518
#1	.20109	.00307	.01076	.95206	.00993
#2	.20045	.00313	.01140	.94979	.00982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00882**	**.17355**	F **.03011**	**.02251**
Stddev	.00	.00030	.00420	.00327	.00134
%RSD	.0039	3.3711	2.4199	10.859	5.9577
#1	25.00	.00903	.17058	.02780	.02346
#2	25.00	.00861	.17652	.03242	.02156
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	.0060			.02000	
Range	50.00%			50.000%	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.43420**	**.00918**	**.00512**	F **.9993**	**.00461**
Stddev	.00425	.00039	.00003	.0042	.00005
%RSD	.97880	4.2981	.62602	.4165	1.0302
#1	.43720	.00945	.00514	.9964	.00458
#2	.43119	.00890	.00510	1.002	.00465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7019501 Acquired: 6/9/2022 13:57:25 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02050**	**.00464**	**.00716**	F **.9992**
Stddev	.00009	.00005	.00002	.0012
%RSD	.42980	1.0576	.24823	.1218
#1	.02056	.00467	.00717	1.000
#2	.02043	.00460	.00715	.9983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3903.8**	**3469.4**	**70291.**	**6009.8**
Stddev	.4	1.4	18.	15.3
%RSD	.01144	.04127	.02511	.25537
#1	3903.4	3468.4	70279.	5999.0
#2	3904.1	3470.4	70304.	6020.7

Sample Name: 620-4703-K-2-A@2 Acquired: 6/9/2022 14:01:17 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00125**	**-.03938**	**.00600**	**1.5549**	**.71289**
Stddev	.00009	.00265	.00258	.0026	.00221
%RSD	7.5962	6.7246	42.975	.16848	.30972
#1	-.00118	-.04126	.00418	1.5530	.71133
#2	-.00131	-.03751	.00783	1.5567	.71445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**279.55**	**.00027**	**-.0337**	**.00995**
Stddev	.00004	.93	.00002	.0047	.00020
%RSD	115.75	.33182	8.9918	13.89	1.9611
#1	-.00006	278.89	.00029	-.0304	.01009
#2	-.00001	280.20	.00026	-.0370	.00981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00568**	**-.00224**	**7.8287**	**247.23**	**.01184**
Stddev	.00018	.00053	.0293	.17	.00152
%RSD	3.1710	23.467	.37480	.06740	12.830
#1	.00555	-.00187	7.8080	247.11	.01076
#2	.00581	-.00261	7.8495	247.35	.01291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4703-K-2-A@2 Acquired: 6/9/2022 14:01:17 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.618**	**.44350**	**-.00002**	**790.44**	**.04015**
Stddev	.023	.00029	.00053	3.58	.00034
%RSD	.04296	.06454	2312.9	.45244	.84369
#1	52.602	.44370	-.00040	787.91	.03991
#2	52.634	.44329	.00035	792.97	.04039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.14**	**.00373**	**3.6788**	**.00534**	**-.00821**
Stddev	.00	.00148	.0045	.00187	.00219
%RSD	.0034	39.537	.12160	35.019	26.664
#1	25.14	.00269	3.6819	.00402	-.00667
#2	25.14	.00478	3.6756	.00666	-.00976
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.0110**	**.00099**	**1.7327**	**1.000**	**.00595**
Stddev	.0304	.00249	.0081	.009	.00029
%RSD	.43320	250.64	.46737	.8457	4.9499
#1	6.9895	.00276	1.7270	.9943	.00616
#2	7.0324	-.00077	1.7384	1.006	.00574
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4703-K-2-A@2 Acquired: 6/9/2022 14:01:17 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00238**	**.00284**	**-.00180**	**1.001**
Stddev	.00021	.00032	.00038	.001
%RSD	9.0415	11.160	21.256	.0546
#1	.00222	.00262	-.00207	1.001
#2	.00253	.00307	-.00153	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2912.5**	**2995.7**	**60171.**	**5792.2**
Stddev	1.7	1.0	164.	9.3
%RSD	.05716	.03349	.27320	.15988
#1	2913.6	2995.0	60055.	5798.7
#2	2911.3	2996.4	60288.	5785.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.036%	84.826%	83.403%	94.522%
Range				

Sample Name: MB 480-628878/1-A Acquired: 6/9/2022 14:05:22 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00058**	F **-.04701**	**-.00213**	**.00381**	**.00002**
Stddev	.00023	.03812	.00184	.00012	.00001
%RSD	39.764	81.077	86.270	3.1001	55.555
#1	-.00042	-.07396	-.00083	.00390	.00002
#2	-.00074	-.02006	-.00343	.00373	.00001
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.20000			
Low Limit		-.04000			

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00017**	**.00005**	**-.0209**	**-.00000**
Stddev	.00008	.00552	.00002	.0058	.00000
%RSD	308.05	3335.4	36.587	27.77	36.719
#1	.00003	.00407	.00006	-.0168	-.00000
#2	-.00009	-.00374	.00004	-.0250	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.00045**	**-.00010**	**.22114**	**-.00014**
Stddev	.00001	.00090	.00097	.02055	.00085
%RSD	1.5837	199.07	936.93	9.2938	619.41
#1	-.00054	-.00019	-.00079	.23567	.00046
#2	-.00056	.00109	.00058	.20660	-.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-628878/1-A Acquired: 6/9/2022 14:05:22 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00106**	**.00013**	**-.00093**	**.14810**	**.00011**
Stddev	.00401	.00000	.00001	.00890	.00000
%RSD	378.93	1.6848	1.2979	6.0100	.27155
#1	.00178	.00013	-.00093	.15440	.00011
#2	-.00389	.00012	-.00092	.14181	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00039**	**-.01664**	**.00077**	**-.00021**
Stddev	.00	.00023	.00043	.00013	.00259
%RSD	.0034	58.359	2.5754	16.343	1245.2
#1	25.00	-.00023	-.01694	.00068	-.00204
#2	25.00	-.00055	-.01634	.00086	.00163
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00888**	**-.00082**	**.00009**	**.9999**	**-.00022**
Stddev	.00284	.00023	.00001	.0017	.00008
%RSD	32.038	28.402	11.004	.1719	34.272
#1	-.00687	-.00065	.00009	.9987	-.00027
#2	-.01089	-.00098	.00010	1.001	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-628878/1-A Acquired: 6/9/2022 14:05:22 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00045**	**-.00027**	**-.00231**	**.9989**
Stddev	.00066	.00027	.00009	.0011
%RSD	148.00	99.653	3.9677	.1063
#1	.00091	-.00008	-.00238	.9996
#2	-.00002	-.00046	-.00225	.9981
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3976.0**	**3515.2**	**71230.**	**6132.1**
Stddev	1.8	2.2	64.	13.6
%RSD	.04642	.06385	.08998	.22098
#1	3974.7	3516.8	71184.	6122.5
#2	3977.3	3513.6	71275.	6141.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.708%	99.536%	98.731%	100.07%
Range				

Sample Name: LCS 480-628878/2-A Acquired: 6/9/2022 14:09:16 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04817**	**10.009**	**.19875**	**.20056**	**.20923**
Stddev	.00043	.096	.00039	.00048	.00019
%RSD	.88248	.95866	.19655	.23697	.09221
#1	.04847	10.077	.19847	.20090	.20936
#2	.04787	9.9409	.19903	.20022	.20909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20562**	**10.056**	**.19844**	**.0123**	**.19863**
Stddev	.00115	.039	.00042	.0126	.00004
%RSD	.56078	.39017	.20938	102.6	.01847
#1	.20643	10.084	.19873	.0034	.19866
#2	.20480	10.028	.19815	.0211	.19861
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20223**	**.20648**	**10.175**	**9.9536**	**.19210**
Stddev	.00075	.00034	.051	.0047	.00060
%RSD	.37115	.16687	.49949	.04701	.31288
#1	.20170	.20673	10.211	9.9569	.19167
#2	.20276	.20624	10.139	9.9503	.19252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-628878/2-A Acquired: 6/9/2022 14:09:16 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.490**	**.20695**	**.20265**	**9.7101**	**.19563**
Stddev	.019	.00023	.00133	.0433	.00024
%RSD	.18316	.11318	.65609	.44627	.12077
#1	10.477	.20712	.20359	9.7408	.19580
#2	10.504	.20678	.20171	9.6795	.19546
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.19991**	**9.7497**	**.20907**	**.19223**
Stddev	.00	.00057	.0184	.00375	.00120
%RSD	.0006	.28671	.18823	1.7944	.62476
#1	25.00	.19951	9.7627	.21172	.19307
#2	25.00	.20032	9.7367	.20642	.19138
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3284**	F **.48138**	**.20203**	**1.004**	**.20301**
Stddev	.0106	.00001	.00101	.001	.00016
%RSD	.11345	.00115	.50188	.1345	.07722
#1	9.3359	.48137	.20275	1.003	.20290
#2	9.3209	.48138	.20131	1.005	.20312
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: LCS 480-628878/2-A Acquired: 6/9/2022 14:09:16 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20413**	**.20029**	**.20184**	**1.001**
Stddev	.00044	.00010	.00029	.000
%RSD	.21798	.05155	.14549	.0405
#1	.20445	.20036	.20204	1.000
#2	.20382	.20022	.20163	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3763.4**	**3478.0**	**69926.**	**6142.0**
Stddev	.1	5.7	20.	.0
%RSD	.00313	.16429	.02888	.00044
#1	3763.3	3474.0	69911.	6142.0
#2	3763.5	3482.0	69940.	6142.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.375%	98.482%	96.923%	100.23%
Range				

Sample Name: 480-198490-B-1-A Acquired: 6/9/2022 14:12:55 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**-.02581**	**-.00087**	**.00608**	**.00005**
Stddev	.00030	.02645	.00062	.00051	.00002
%RSD	63.950	102.46	71.353	8.4119	44.062
#1	-.00068	-.04451	-.00043	.00572	.00003
#2	-.00026	-.00711	-.00131	.00644	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00767**	**.00001**	**.0179**	**-.00003**
Stddev	.00008	.00092	.00004	.0080	.00001
%RSD	313.40	11.977	347.51	44.82	42.969
#1	.00003	.00702	.00004	.0235	-.00004
#2	-.00009	.00832	-.00002	.0122	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00094**	**.01372**	**.01000**	**.03598**	**.00003**
Stddev	.00007	.00002	.00061	.03197	.00034
%RSD	7.2999	.11003	6.1300	88.847	1136.7
#1	.00099	.01374	.01044	.01338	.00027
#2	.00089	.01371	.00957	.05859	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-1-A Acquired: 6/9/2022 14:12:55 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00280**	**.00048**	**-.00021**	**.07877**	**-.00002**
Stddev	.00093	.00006	.00015	.00328	.00003
%RSD	33.197	12.615	71.073	4.1699	145.56
#1	.00214	.00043	-.00032	.08109	-.00004
#2	.00346	.00052	-.00011	.07644	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00051**	**-.00386**	**.00109**	**.00075**
Stddev	.00	.00090	.00194	.00221	.00125
%RSD	.0011	175.79	50.322	202.54	165.75
#1	25.00	.00115	-.00523	-.00047	-.00013
#2	25.00	-.00012	-.00249	.00265	.00164
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.82184**	**-.00061**	**.00001**	**.9976**	**-.00018**
Stddev	.00516	.00015	.00010	.0029	.00020
%RSD	.62765	25.286	701.01	.2863	111.46
#1	.82549	-.00050	.00008	.9956	-.00004
#2	.81820	-.00072	-.00006	.9996	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-1-A Acquired: 6/9/2022 14:12:55 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00125**	**-.00027**	**.00593**	**.9993**
Stddev	.00049	.00003	.00045	.0007
%RSD	38.897	12.437	7.5761	.0704
#1	.00091	-.00029	.00562	.9988
#2	.00160	-.00024	.00625	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4007.2**	**3546.0**	**72053.**	**6141.8**
Stddev	.3	1.9	267.	4.7
%RSD	.00627	.05473	.37020	.07630
#1	4007.1	3544.6	71864.	6138.5
#2	4007.4	3547.3	72241.	6145.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.49%	100.41%	99.872%	100.23%
Range				

Sample Name: 480-198490-B-2-A Acquired: 6/9/2022 14:16:47 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**-.01377**	**.00647**	**.03769**	**.13129**
Stddev	.00005	.01254	.00065	.00022	.00002
%RSD	7.9557	91.054	10.076	.58952	.01796
#1	-.00064	-.02264	.00693	.03785	.13131
#2	-.00071	-.00490	.00601	.03753	.13127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**105.77**	**.00008**	**-.0224**	**.00294**
Stddev	.00004	.37	.00003	.0150	.00015
%RSD	112.98	.34647	39.920	66.91	5.2416
#1	-.00001	106.03	.00006	-.0331	.00305
#2	-.00006	105.51	.00010	-.0118	.00283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.00028**	**7.4802**	**3.0472**	**.00134**
Stddev	.00006	.00005	.0097	.0057	.00231
%RSD	42.636	16.966	.12917	.18630	172.71
#1	-.00010	.00025	7.4870	3.0512	-.00030
#2	-.00018	.00032	7.4734	3.0431	.00298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-2-A Acquired: 6/9/2022 14:16:47 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.546**	**.46402**	**-.00056**	**4.4420**	**.00326**
Stddev	.002	.00005	.00007	.0195	.00015
%RSD	.00460	.01118	12.913	.43856	4.5152
#1	47.545	.46405	-.00061	4.4558	.00316
#2	47.548	.46398	-.00051	4.4283	.00336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00236**	**1.1032**	**-.00356**	**-.00988**
Stddev	.00	.00052	.0070	.00333	.00011
%RSD	.0021	22.137	.63609	93.647	1.0747
#1	25.00	.00273	1.1081	-.00120	-.00996
#2	25.00	.00199	1.0982	-.00591	-.00981
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.1875**	**-.00054**	**.14668**	**1.003**	**.00073**
Stddev	.0198	.00063	.00029	.001	.00040
%RSD	.27572	115.91	.19965	.1430	54.732
#1	7.2015	-.00010	.14688	1.002	.00101
#2	7.1735	-.00098	.14647	1.004	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-2-A Acquired: 6/9/2022 14:16:47 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00329**	**-.00024**	**.00018**	**.9993**
Stddev	.00183	.00029	.00099	.0007
%RSD	55.691	121.25	556.41	.0710
#1	.00458	-.00003	-.00052	.9998
#2	.00199	-.00045	.00088	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3556.1**	**3328.1**	**67744.**	**5981.2**
Stddev	.4	.9	48.	15.7
%RSD	.01214	.02806	.07077	.26299
#1	3555.8	3327.4	67778.	5970.1
#2	3556.4	3328.7	67710.	5992.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.177%	94.237%	93.900%	97.606%
Range				

Sample Name: 480-198490-B-2-Asd@5 Acquired: 6/9/2022 14:20:37 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00090**	**-.03054**	**.00007**	**.00841**	**.02655**
Stddev	.00024	.00209	.00106	.00001	.00001
%RSD	26.579	6.8367	1448.5	.11727	.02284
#1	-.00073	-.03201	-.00068	.00841	.02655
#2	-.00107	-.02906	.00082	.00840	.02656
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**21.541**	**.00002**	**-.0104**	**.00055**
Stddev	.00004	.056	.00014	.0193	.00010
%RSD	90.238	.25853	777.12	185.7	18.375
#1	-.00007	21.580	-.00008	-.0240	.00062
#2	-.00001	21.502	.00012	.0032	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.00054**	**1.5325**	**.61446**	**.00091**
Stddev	.00013	.00027	.0038	.01567	.00204
%RSD	51.091	50.321	.24796	2.5497	222.96
#1	-.00016	.00035	1.5352	.60338	.00236
#2	-.00034	.00074	1.5298	.62554	-.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-2-Asd@5 Acquired: 6/9/2022 14:20:37 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5852**	**.09552**	**-.00129**	**.86829**	**.00066**
Stddev	.0071	.00020	.00035	.00004	.00000
%RSD	.07446	.20867	27.130	.00512	.60026
#1	9.5802	.09566	-.00154	.86825	.00067
#2	9.5903	.09538	-.00104	.86832	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00074**	**.19105**	**-.00096**	**-.00412**
Stddev	.00	.00055	.00532	.00057	.00379
%RSD	.0028	74.154	2.7820	59.720	91.991
#1	25.00	.00113	.18730	-.00137	-.00680
#2	25.00	.00035	.19481	-.00055	-.00144
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4148**	**-.00024**	**.02976**	**.9984**	**-.00038**
Stddev	.0065	.00049	.00021	.0064	.00007
%RSD	.46183	200.39	.71752	.6374	17.737
#1	1.4194	-.00059	.02991	.9939	-.00042
#2	1.4101	.00010	.02961	1.003	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-2-Asd@5 Acquired: 6/9/2022 14:20:37 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00175**	**-.00015**	**-.00269**	**.9993**
Stddev	.00022	.00000	.00073	.0000
%RSD	12.722	.15250	27.200	.0028
#1	.00191	-.00015	-.00321	.9993
#2	.00159	-.00015	-.00217	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3780.5**	**3409.5**	**68841.**	**5938.0**
Stddev	1.3	2.1	26.	30.9
%RSD	.03539	.06074	.03782	.52070
#1	3779.6	3408.0	68823.	5916.1
#2	3781.4	3410.9	68860.	5959.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.804%	96.542%	95.421%	96.901%
Range				

Sample Name: 480-198490-B-2-APDS Acquired: 6/9/2022 14:24:28 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05167**	**10.375**	**.21901**	**.24564**	**.33680**
Stddev	.00065	.044	.00086	.00032	.00038
%RSD	1.2544	.42598	.39422	.12828	.11304
#1	.05121	10.344	.21962	.24542	.33707
#2	.05213	10.406	.21840	.24587	.33653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21689**	**111.58**	**.21042**	**-.0121**	**.21072**
Stddev	.00037	.07	.00025	.0276	.00002
%RSD	.17054	.06280	.12115	227.7	.01053
#1	.21715	111.53	.21024	-.0316	.21073
#2	.21663	111.63	.21061	.0074	.21070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21256**	**.21657**	**17.613**	**13.355**	**.20494**
Stddev	.00006	.00026	.003	.002	.00017
%RSD	.02783	.11975	.01949	.01742	.08226
#1	.21252	.21675	17.610	13.354	.20506
#2	.21260	.21638	17.615	13.357	.20482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-2-APDS Acquired: 6/9/2022 14:24:28 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**56.865**	**.66448**	**.21214**	**14.523**	**.20768**
Stddev	.098	.00089	.00097	.028	.00059
%RSD	.17176	.13406	.45829	.19420	.28309
#1	56.934	.66511	.21282	14.543	.20726
#2	56.796	.66385	.21145	14.503	.20809
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.21194**	**11.607**	**.22541**	**.19236**
Stddev	.00	.00138	.032	.00308	.00302
%RSD	.0050	.65207	.27784	1.3666	1.5678
#1	25.00	.21291	11.584	.22323	.19449
#2	25.00	.21096	11.630	.22759	.19023
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.102**	**.19547**	**.35206**	**1.009**	**.21218**
Stddev	.003	.00080	.00091	.003	.00053
%RSD	.01647	.41146	.25973	.3397	.24900
#1	17.104	.19490	.35270	1.007	.21181
#2	17.100	.19604	.35141	1.012	.21255
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-2-APDS Acquired: 6/9/2022 14:24:28 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21568**	**.21021**	**.20935**	**1.0000**
Stddev	.00045	.00041	.00178	.0009
%RSD	.20753	.19290	.84992	.0874
#1	.21600	.21050	.21061	1.001
#2	.21537	.20992	.20809	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3470.7**	**3321.6**	**67070.**	**6011.0**
Stddev	2.5	1.1	47.	12.9
%RSD	.07324	.03414	.07074	.21451
#1	3468.9	3322.5	67037.	6020.1
#2	3472.5	3320.8	67104.	6001.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.036%	94.055%	92.966%	98.092%
Range				

Sample Name: 480-198490-B-2-B MS Acquired: 6/9/2022 14:28:14 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05090**	**10.314**	**.21510**	**.24253**	**.33914**
Stddev	.00022	.047	.00057	.00091	.00069
%RSD	.43974	.45822	.26290	.37499	.20396
#1	.05106	10.347	.21470	.24189	.33865
#2	.05074	10.280	.21550	.24317	.33963
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21111**	**113.25**	**.20565**	**-.0097**	**.20746**
Stddev	.00006	.07	.00030	.0090	.00023
%RSD	.02826	.06026	.14540	93.06	.11320
#1	.21115	113.21	.20544	-.0161	.20763
#2	.21107	113.30	.20586	-.0033	.20730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20443**	**.21818**	**17.519**	**13.338**	**.20427**
Stddev	.00078	.00059	.002	.036	.00139
%RSD	.38363	.26897	.01094	.27086	.67903
#1	.20499	.21776	17.518	13.313	.20525
#2	.20388	.21859	17.521	13.364	.20329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-2-B MS Acquired: 6/9/2022 14:28:14 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**57.574**	**.66523**	**.21003**	**14.463**	**.20411**
Stddev	.001	.00019	.00030	.007	.00008
%RSD	.00249	.02828	.14441	.04849	.03936
#1	57.575	.66510	.20981	14.458	.20405
#2	57.573	.66537	.21024	14.468	.20417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.20822**	**11.491**	**.21519**	**.19838**
Stddev	.00	.00063	.020	.00202	.00726
%RSD	.0048	.30157	.17013	.93838	3.6589
#1	25.00	.20867	11.477	.21376	.20351
#2	25.00	.20778	11.505	.21662	.19325
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.094**	**.50726**	**.35043**	**1.002**	**.20949**
Stddev	.015	.00177	.00041	.005	.00064
%RSD	.10086	.34817	.11667	.5292	.30591
#1	15.104	.50851	.35014	1.006	.20904
#2	15.083	.50601	.35072	.9985	.20995
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-2-B MS Acquired: 6/9/2022 14:28:14 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20894**	**.20622**	**.20471**	**.9996**
Stddev	.00028	.00024	.00001	.0001
%RSD	.13583	.11620	.00609	.0095
#1	.20914	.20605	.20471	.9995
#2	.20874	.20639	.20470	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3453.2**	**3308.0**	**66804.**	**5984.6**
Stddev	1.9	.3	26.	12.6
%RSD	.05479	.00951	.03944	.21011
#1	3454.5	3308.2	66785.	5993.5
#2	3451.9	3307.8	66822.	5975.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.596%	93.669%	92.596%	97.663%
Range				

Sample Name: 480-198490-B-2-C MSD Acquired: 6/9/2022 14:31:59 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04998**	**10.192**	**.21410**	**.23960**	**.33665**
Stddev	.00118	.045	.00091	.00016	.00060
%RSD	2.3622	.44512	.42632	.06866	.17743
#1	.04915	10.224	.21475	.23971	.33622
#2	.05082	10.160	.21346	.23948	.33707
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20662**	**112.82**	**.20320**	**-.0193**	**.20511**
Stddev	.00010	.04	.00010	.0008	.00060
%RSD	.04944	.03893	.05035	4.181	.29064
#1	.20669	112.79	.20328	-.0187	.20553
#2	.20655	112.85	.20313	-.0198	.20468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20196**	**.22131**	**17.365**	**13.179**	**.19975**
Stddev	.00076	.00095	.029	.021	.00071
%RSD	.37710	.42780	.16596	.16095	.35784
#1	.20142	.22064	17.385	13.194	.19924
#2	.20249	.22198	17.344	13.164	.20025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-2-C MSD Acquired: 6/9/2022 14:31:59 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**57.777**	**.66610**	**.20599**	**14.231**	**.20226**
Stddev	.073	.00053	.00050	.008	.00020
%RSD	.12561	.07980	.24050	.05780	.10013
#1	57.726	.66648	.20634	14.225	.20241
#2	57.828	.66573	.20564	14.236	.20212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.20428**	**11.369**	**.20871**	**.19406**
Stddev	.00	.00075	.008	.00108	.00061
%RSD	.0035	.36553	.07064	.51530	.31306
#1	25.00	.20481	11.375	.20795	.19449
#2	25.00	.20375	11.363	.20947	.19363
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.283**	**.24737**	**.34777**	**1.005**	**.20658**
Stddev	.037	.00002	.00019	.001	.00068
%RSD	.27557	.00990	.05443	.1286	.32975
#1	13.309	.24735	.34764	1.004	.20609
#2	13.257	.24739	.34790	1.006	.20706
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-2-C MSD Acquired: 6/9/2022 14:31:59 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20741**	**.20371**	**.20337**	**.9990**
Stddev	.00128	.00010	.00320	.0003
%RSD	.61800	.04947	1.5723	.0287
#1	.20651	.20378	.20111	.9992
#2	.20832	.20364	.20563	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3453.3**	**3301.2**	**66556.**	**6000.3**
Stddev	3.6	.2	116.	5.7
%RSD	.10449	.00654	.17470	.09538
#1	3450.7	3301.4	66639.	5996.3
#2	3455.8	3301.0	66474.	6004.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.598%	93.476%	92.253%	97.918%
Range				

Sample Name: CCV-7024752 Acquired: 6/9/2022 14:35:46 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99196**	**49.317**	**.99370**	**1.0143**	**.97186**
Stddev	.00067	.027	.00330	.0005	.00006
%RSD	.06794	.05546	.33164	.04578	.00638
#1	.99244	49.298	.99603	1.0140	.97181
#2	.99148	49.336	.99137	1.0147	.97190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98095**	**49.746**	**.99533**	**.9617**	**.98953**
Stddev	.00028	.036	.00068	.0725	.00128
%RSD	.02809	.07331	.06800	7.541	.12978
#1	.98075	49.720	.99486	.9104	.98862
#2	.98114	49.771	.99581	1.013	.99044
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0012**	**.99495**	**50.280**	**49.296**	**.95964**
Stddev	.0003	.00226	.027	.059	.00134
%RSD	.02665	.22735	.05361	.12041	.13990
#1	1.0014	.99655	50.261	49.254	.95869
#2	1.0010	.99335	50.299	49.338	.96059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 14:35:46 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.571**	**1.0129**	**.99476**	**48.850**	**.99798**
Stddev	.026	.0011	.00397	.006	.00097
%RSD	.05223	.11187	.39868	.01292	.09671
#1	50.590	1.0137	.99756	48.845	.99866
#2	50.552	1.0121	.99195	48.854	.99730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.61**	**.99967**	**25.020**	**.99866**	**.99284**
Stddev	.01	.00181	.036	.00173	.01327
%RSD	.0326	.18096	.14387	.17355	1.3363
#1	37.60	1.0009	24.994	.99988	1.0022
#2	37.62	.99839	25.045	.99743	.98346
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7911**	**.99567**	**.98882**	**1.494**	**.99628**
Stddev	.0350	.00085	.00028	.002	.00089
%RSD	.35737	.08569	.02850	.1067	.08975
#1	9.7664	.99627	.98862	1.495	.99691
#2	9.8159	.99507	.98902	1.493	.99564
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 14:35:46 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0070**	**1.0055**	**1.0383**	**1.500**
Stddev	.0028	.0005	.0004	.000
%RSD	.27595	.04805	.04073	.0168
#1	1.0050	1.0058	1.0380	1.500
#2	1.0089	1.0051	1.0386	1.500
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3431.4**	**3363.4**	**67011.**	**5942.7**
Stddev	.3	.7	118.	7.4
%RSD	.00954	.02159	.17608	.12462
#1	3431.2	3362.9	66927.	5947.9
#2	3431.7	3363.9	67094.	5937.5

Sample Name: CCB-7026764 Acquired: 6/9/2022 14:39:26 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**-.04235**	**.00135**	**.00142**	**.00004**
Stddev	.00004	.02553	.00136	.00046	.00001
%RSD	51.351	60.294	100.75	32.378	23.583
#1	.00005	-.02429	.00039	.00175	.00005
#2	.00010	-.06041	.00230	.00110	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00129**	**.00017**	**-.0049**	**-.00007**
Stddev	.00000	.00411	.00004	.0180	.00010
%RSD	9.2716	319.45	25.032	365.4	149.33
#1	.00003	.00419	.00014	.0078	-.00014
#2	.00003	-.00162	.00020	-.0177	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00076**	**.00879**	**.03631**	**-.00032**
Stddev	.00021	.00048	.00159	.01704	.00192
%RSD	201.12	62.964	18.041	46.946	602.78
#1	.00004	.00110	.00767	.04836	.00104
#2	-.00025	.00042	.00992	.02425	-.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 14:39:26 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00387**	**.00005**	**.00326**	**-.01377**	**.00001**
Stddev	.00019	.00004	.00045	.00409	.00004
%RSD	4.8182	83.513	13.716	29.722	277.14
#1	.00401	.00007	.00294	-.01667	.00004
#2	.00374	.00002	.00357	-.01088	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00050**	**-.01341**	**.00205**	**.00714**
Stddev	.00	.00007	.00126	.00168	.00282
%RSD	.0035	13.377	9.4112	82.206	39.448
#1	25.00	.00046	-.01252	.00086	.00515
#2	25.00	.00055	-.01430	.00324	.00913
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01946**	**.00012**	**.00007**	**.9975**	**.00029**
Stddev	.00339	.00068	.00001	.0036	.00042
%RSD	17.410	548.92	15.802	.3591	143.33
#1	-.02186	-.00036	.00008	.9950	.00058
#2	-.01706	.00060	.00007	1.000	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 14:39:26 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00161**	**-.00030**	**-.00009**	**.9993**
Stddev	.00156	.00005	.00048	.0001
%RSD	97.334	15.428	522.39	.0088
#1	.00271	-.00026	-.00043	.9994
#2	.00050	-.00033	.00025	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3985.3**	**3530.7**	**71787.**	**6053.7**
Stddev	2.2	.1	55.	5.5
%RSD	.05458	.00330	.07662	.09127
#1	3983.8	3530.6	71748.	6057.6
#2	3986.9	3530.7	71826.	6049.8

Sample Name: CCVL-7019501 Acquired: 6/9/2022 14:43:20 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00513**	**.17926**	**.01404**	**.01949**	**.00207**
Stddev	.00045	.01071	.00240	.00043	.00001
%RSD	8.6768	5.9738	17.079	2.1952	.48635
#1	.00482	.18684	.01235	.01979	.00206
#2	.00545	.17169	.01574	.01919	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00204**	**.49792**	**.00193**	**-.0182**	**.00379**
Stddev	.00000	.00238	.00010	.0372	.00010
%RSD	.20348	.47841	5.2549	204.9	2.6613
#1	.00204	.49623	.00200	-.0445	.00386
#2	.00204	.49960	.00186	.0081	.00372
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00331**	**.00992**	**.04965**	**.49074**	**.02811**
Stddev	.00006	.00021	.00172	.01175	.00226
%RSD	1.8342	2.1653	3.4718	2.3937	8.0558
#1	.00327	.01007	.05087	.48243	.02651
#2	.00335	.00977	.04843	.49904	.02971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7019501 Acquired: 6/9/2022 14:43:20 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19440**	**.00293**	**.00950**	**.93653**	**.00956**
Stddev	.00435	.00006	.00036	.00091	.00029
%RSD	2.2375	2.0344	3.7665	.09737	3.0850
#1	.19133	.00288	.00925	.93718	.00935
#2	.19748	.00297	.00976	.93589	.00976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00907**	**.17109**	**.01727**	**.01762**
Stddev	.00	.00059	.00266	.00282	.00032
%RSD	.0037	6.4823	1.5573	16.313	1.8409
#1	25.00	.00949	.16921	.01926	.01785
#2	25.00	.00866	.17298	.01528	.01739
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44282**	**.00861**	**.00499**	F **.9993**	**.00440**
Stddev	.01590	.00007	.00001	.0009	.00014
%RSD	3.5896	.82169	.28622	.0873	3.1737
#1	.43158	.00856	.00500	.9999	.00430
#2	.45406	.00866	.00498	.9987	.00450
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7019501 Acquired: 6/9/2022 14:43:20 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02035**	**.00457**	**.00756**	F **.9990**
Stddev	.00076	.00014	.00053	.0004
%RSD	3.7322	2.9627	6.9756	.0427
#1	.02089	.00447	.00793	.9987
#2	.01981	.00466	.00719	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3961.0**	**3519.2**	**71217.**	**6048.0**
Stddev	2.5	4.2	57.	2.8
%RSD	.06424	.11844	.08065	.04618
#1	3959.2	3516.2	71177.	6049.9
#2	3962.8	3522.1	71258.	6046.0

Sample Name: 480-198490-B-3-A Acquired: 6/9/2022 14:47:12 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**-.01946**	**.00147**	**.03697**	**.11205**
Stddev	.00027	.00217	.00023	.00045	.00013
%RSD	52.890	11.137	15.668	1.2122	.11186
#1	-.00032	-.02100	.00131	.03665	.11196
#2	-.00071	-.01793	.00164	.03728	.11214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**105.06**	**.00017**	**-.0056**	**.00367**
Stddev	.00002	.09	.00005	.0151	.00008
%RSD	509.93	.08938	29.430	269.0	2.1768
#1	-.00002	105.13	.00020	-.0163	.00373
#2	.00001	105.00	.00013	.0051	.00361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.00572**	**.00738**	**2.5852**	**.00314**
Stddev	.00033	.00016	.00053	.0241	.00212
%RSD	89.498	2.7789	7.1293	.93051	67.664
#1	-.00014	.00561	.00775	2.6022	.00164
#2	-.00060	.00583	.00700	2.5682	.00464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-3-A Acquired: 6/9/2022 14:47:12 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.228**	**.15445**	**-.00075**	**25.722**	**.00281**
Stddev	.180	.00061	.00020	.005	.00015
%RSD	.38035	.39173	27.083	.01755	5.1657
#1	47.101	.15402	-.00089	25.725	.00271
#2	47.355	.15488	-.00060	25.719	.00291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00042**	**14.083**	**-.00160**	**-.01014**
Stddev	.00	.00114	.002	.00087	.00436
%RSD	.0010	268.37	.01080	54.704	43.020
#1	25.01	.00123	14.082	-.00222	-.00706
#2	25.01	-.00038	14.084	-.00098	-.01323
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.2570**	**-.00068**	**.08212**	**.9978**	**.00029**
Stddev	.0764	.00027	.00000	.0030	.00002
%RSD	1.0520	39.104	.00444	.3037	8.0784
#1	7.3110	-.00049	.08212	1.0000	.00027
#2	7.2030	-.00087	.08212	.9957	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-3-A Acquired: 6/9/2022 14:47:12 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00255**	**-.00012**	**-.00171**	**.9986**
Stddev	.00244	.00005	.00015	.0000
%RSD	95.488	43.381	8.9132	.0040
#1	.00083	-.00008	-.00160	.9985
#2	.00428	-.00016	-.00182	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3467.0**	**3262.1**	**66204.**	**5870.4**
Stddev	4.3	2.3	315.	2.8
%RSD	.12510	.07031	.47549	.04843
#1	3470.1	3263.7	66427.	5872.4
#2	3464.0	3260.4	65982.	5868.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.943%	92.368%	91.765%	95.798%
Range				

Sample Name: 480-198490-B-4-A Acquired: 6/9/2022 14:51:01 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**-.01033**	**.00004**	**.01511**	**.07548**
Stddev	.00019	.01954	.00084	.00009	.00001
%RSD	40.969	189.11	1915.7	.62322	.01910
#1	-.00033	.00348	.00064	.01518	.07549
#2	-.00059	-.02415	-.00055	.01504	.07547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**75.112**	**.00008**	**.0043**	**-.00033**
Stddev	.00003	.046	.00010	.0053	.00012
%RSD	486.59	.06154	117.94	122.5	35.683
#1	.00002	75.144	.00016	.0081	-.00042
#2	-.00003	75.079	.00001	.0006	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00133**	**.01550**	**3.4663**	**.00066**
Stddev	.00039	.00017	.00016	.0063	.00018
%RSD	213.21	12.843	1.0052	.18099	27.276
#1	.00009	.00145	.01561	3.4707	.00079
#2	-.00045	.00121	.01539	3.4618	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-4-A Acquired: 6/9/2022 14:51:01 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.603**	**.00189**	**-.00096**	**2.0256**	**.00059**
Stddev	.066	.00002	.00009	.0057	.00010
%RSD	.17491	.94196	9.3364	.28255	17.525
#1	37.650	.00190	-.00102	2.0297	.00067
#2	37.557	.00188	-.00090	2.0216	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.11**	**.00140**	**1.1033**	**-.00025**	**-.00621**
Stddev	.00	.00090	.0001	.00167	.00070
%RSD	.0025	63.719	.01280	674.41	11.282
#1	25.11	.00204	1.1034	-.00143	-.00671
#2	25.11	.00077	1.1032	.00094	-.00572
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.3389**	**-.00102**	**.09850**	**.9965**	**-.00005**
Stddev	.0159	.00070	.00012	.0001	.00002
%RSD	.29689	68.971	.11779	.0116	44.931
#1	5.3277	-.00052	.09842	.9965	-.00007
#2	5.3501	-.00152	.09858	.9966	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-4-A Acquired: 6/9/2022 14:51:01 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00072**	**.00070**	**-.00125**	**1.000**
Stddev	.00068	.00048	.00019	.000
%RSD	94.072	68.997	14.949	.0192
#1	.00024	.00104	-.00112	1.000
#2	.00121	.00036	-.00138	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3540.4**	**3274.4**	**66334.**	**5849.2**
Stddev	6.5	6.3	2.	2.4
%RSD	.18254	.19287	.00266	.04037
#1	3544.9	3278.9	66333.	5850.9
#2	3535.8	3270.0	66335.	5847.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.782%	92.718%	91.945%	95.452%
Range				

Sample Name: 480-198490-B-5-A Acquired: 6/9/2022 14:54:53 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.01916**	**.00143**	**.17956**	**.07501**
Stddev	.00023	.01247	.00167	.00015	.00008
%RSD	190.80	65.082	116.89	.08339	.11247
#1	.00004	-.02798	.00025	.17945	.07507
#2	-.00028	-.01034	.00261	.17966	.07495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**85.671**	**.00022**	**-.0073**	**.00006**
Stddev	.00011	.157	.00007	.0231	.00019
%RSD	600.58	.18341	29.702	315.6	297.86
#1	-.00006	85.782	.00027	.0090	-.00007
#2	.00009	85.560	.00017	-.0237	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.00418**	**.06423**	**7.1943**	**.00347**
Stddev	.00002	.00078	.00027	.0558	.00002
%RSD	5.4411	18.673	.42223	.77600	.66104
#1	.00039	.00362	.06403	7.2338	.00348
#2	.00042	.00473	.06442	7.1548	.00345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-5-A Acquired: 6/9/2022 14:54:53 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**76.952**	**.00192**	**-.00026**	**28.939**	**.00705**
Stddev	.239	.00004	.00001	.077	.00028
%RSD	.31092	1.9952	3.8421	.26767	3.9133
#1	76.783	.00189	-.00025	28.994	.00685
#2	77.121	.00195	-.00027	28.884	.00724
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00123**	**11.717**	**-.00198**	**-.00773**
Stddev	.00	.00021	.005	.00343	.00543
%RSD	.0022	17.389	.04652	172.77	70.234
#1	25.01	.00108	11.713	-.00441	-.01157
#2	25.01	.00138	11.721	.00044	-.00389
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.3850**	**-.00108**	**.12205**	**.9926**	**.00044**
Stddev	.0155	.00061	.00017	.0032	.00003
%RSD	.24335	56.295	.14037	.3266	7.9018
#1	6.3960	-.00065	.12217	.9949	.00042
#2	6.3740	-.00151	.12193	.9903	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-5-A Acquired: 6/9/2022 14:54:53 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00186**	**.00022**	**-.00112**	**.9990**
Stddev	.00083	.00019	.00051	.0002
%RSD	44.932	87.028	45.590	.0161
#1	.00127	.00008	-.00148	.9988
#2	.00245	.00036	-.00076	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3487.2**	**3310.7**	**66971.**	**6006.5**
Stddev	4.9	2.4	118.	6.7
%RSD	.14050	.07348	.17546	.11230
#1	3490.7	3312.4	67054.	6001.7
#2	3483.8	3309.0	66888.	6011.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.450%	93.744%	92.828%	98.019%
Range				

Sample Name: 480-198490-B-6-A Acquired: 6/9/2022 14:58:42 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**-.00978**	**.00471**	**.06136**	**.05881**
Stddev	.00089	.01119	.00106	.00073	.00009
%RSD	114.26	114.41	22.541	1.1934	.14562
#1	-.00141	-.01769	.00546	.06085	.05887
#2	-.00015	-.00187	.00396	.06188	.05875
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**79.352**	**.00004**	**.0043**	**.00609**
Stddev	.00005	.066	.00008	.0031	.00010
%RSD	511.78	.08286	203.61	71.34	1.7071
#1	.00003	79.398	-.00002	.0065	.00616
#2	-.00005	79.305	.00009	.0021	.00602
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00314**	**.00660**	**.95443**	**.00146**
Stddev	.00003	.00040	.00186	.00774	.00090
%RSD	77.930	12.777	28.213	.81131	61.850
#1	-.00002	.00343	.00791	.94895	.00082
#2	-.00007	.00286	.00528	.95990	.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-6-A Acquired: 6/9/2022 14:58:42 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**59.577**	**.00292**	**-.00079**	**8.0571**	**.00501**
Stddev	.082	.00003	.00020	.0084	.00016
%RSD	.13818	.86765	25.014	.10383	3.1731
#1	59.636	.00294	-.00065	8.0631	.00490
#2	59.519	.00290	-.00093	8.0512	.00512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00152**	**6.5904**	**-.00079**	**-.00578**
Stddev	.00	.00038	.0124	.00054	.00254
%RSD	.0008	24.816	.18830	68.660	43.975
#1	25.03	.00126	6.5992	-.00117	-.00758
#2	25.03	.00179	6.5816	-.00040	-.00398
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.3860**	**-.00088**	**.07675**	**.9987**	**.00021**
Stddev	.0186	.00015	.00018	.0022	.00033
%RSD	.22192	16.949	.23607	.2220	161.29
#1	8.3728	-.00098	.07662	1.000	-.00003
#2	8.3991	-.00077	.07688	.9971	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-6-A Acquired: 6/9/2022 14:58:42 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00286**	**.00643**	**-.00079**	**1.0000**
Stddev	.00125	.00013	.00068	.0004
%RSD	43.774	2.0578	85.439	.0399
#1	.00197	.00634	-.00031	.9997
#2	.00374	.00653	-.00127	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3538.0**	**3310.5**	**67122.**	**5951.7**
Stddev	3.8	3.2	214.	7.3
%RSD	.10735	.09596	.31914	.12290
#1	3540.7	3308.3	66971.	5946.5
#2	3535.3	3312.8	67274.	5956.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.723%	93.739%	93.038%	97.125%
Range				

Sample Name: 480-198490-B-7-A Acquired: 6/9/2022 15:02:32 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00850**	**-.00151**	**.02825**	**.04830**
Stddev	.00049	.00273	.00061	.00024	.00000
%RSD	150.40	32.060	40.203	.85708	.00162
#1	.00002	.01043	-.00108	.02842	.04830
#2	-.00067	.00657	-.00193	.02808	.04830
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**85.487**	**.00016**	**-.0084**	**-.00020**
Stddev	.00002	.072	.00019	.0043	.00014
%RSD	50.074	.08414	120.75	51.17	71.838
#1	-.00004	85.538	.00030	-.0114	-.00029
#2	-.00002	85.437	.00002	-.0053	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**.00164**	**.03903**	**1.2632**	**.00212**
Stddev	.00036	.00045	.00245	.0060	.00061
%RSD	39.910	27.220	6.2672	.47824	28.630
#1	.00065	.00195	.03730	1.2675	.00255
#2	.00116	.00132	.04076	1.2589	.00169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-7-A Acquired: 6/9/2022 15:02:32 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.016**	**.00584**	**-.00091**	**10.127**	**.00160**
Stddev	.016	.00005	.00004	.007	.00000
%RSD	.03527	.83795	4.6155	.06914	.22393
#1	45.027	.00588	-.00088	10.122	.00160
#2	45.005	.00581	-.00094	10.132	.00160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00133**	**7.5886**	**-.00145**	**-.00861**
Stddev	.00	.00097	.0258	.00060	.00204
%RSD	.0087	72.619	.33943	41.620	23.644
#1	25.02	.00202	7.6069	-.00188	-.00717
#2	25.01	.00065	7.5704	-.00103	-.01005
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.1231**	**-.00120**	**.08054**	**.9995**	**.00023**
Stddev	.0194	.00050	.00041	.0015	.00014
%RSD	.23950	41.158	.50417	.1476	61.931
#1	8.1368	-.00156	.08083	1.001	.00033
#2	8.1093	-.00085	.08025	.9985	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-7-A Acquired: 6/9/2022 15:02:32 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00181**	**.00219**	**-.00135**	**.9993**
Stddev	.00147	.00002	.00046	.0002
%RSD	81.360	.77756	34.041	.0204
#1	.00285	.00221	-.00167	.9995
#2	.00077	.00218	-.00102	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3597.4**	**3369.8**	**68384.**	**6026.3**
Stddev	5.0	1.1	20.	6.5
%RSD	.14008	.03300	.02997	.10791
#1	3601.0	3370.5	68370.	6021.7
#2	3593.9	3369.0	68399.	6030.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.214%	95.417%	94.787%	98.342%
Range				

Sample Name: 480-198490-B-8-A Acquired: 6/9/2022 15:06:21 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**-.02531**	**-.00175**	**.04731**	**.04747**
Stddev	.00036	.00063	.00081	.00044	.00005
%RSD	49.700	2.4821	46.599	.92776	.10536
#1	-.00047	-.02576	-.00117	.04700	.04750
#2	-.00099	-.02487	-.00232	.04762	.04743
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**84.980**	**.00003**	**-.0031**	**.00002**
Stddev	.00002	.065	.00000	.0235	.00008
%RSD	40.525	.07651	13.528	760.6	415.20
#1	.00005	84.934	.00003	.0135	-.00004
#2	.00003	85.026	.00002	-.0197	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00366**	**.03176**	**1.2952**	**.00315**
Stddev	.00036	.00000	.00112	.0105	.00001
%RSD	3893.4	.11217	3.5322	.81033	.26386
#1	-.00025	.00366	.03255	1.2878	.00315
#2	.00027	.00366	.03096	1.3026	.00314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-8-A Acquired: 6/9/2022 15:06:21 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**43.087**	**.03613**	**-.00086**	**9.4284**	**.00245**
Stddev	.028	.00002	.00011	.0025	.00011
%RSD	.06521	.05658	12.744	.02612	4.5759
#1	43.107	.03615	-.00094	9.4267	.00237
#2	43.067	.03612	-.00078	9.4301	.00253
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00048**	**5.8829**	**-.00206**	**-.00879**
Stddev	.00	.00064	.0155	.00086	.00078
%RSD	.0022	134.97	.26352	41.735	8.8283
#1	25.01	.00093	5.8939	-.00267	-.00824
#2	25.01	.00002	5.8720	-.00145	-.00934
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.6831**	**-.00050**	**.07137**	**.9944**	**.00010**
Stddev	.0045	.00019	.00007	.0071	.00003
%RSD	.05806	37.668	.09175	.7180	30.699
#1	7.6800	-.00037	.07133	.9893	.00008
#2	7.6863	-.00063	.07142	.9994	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-8-A Acquired: 6/9/2022 15:06:21 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00129**	**.00140**	**-.00067**	**.9991**
Stddev	.00056	.00033	.00088	.0001
%RSD	43.256	23.722	130.13	.0069
#1	.00169	.00164	-.00005	.9992
#2	.00090	.00117	-.00129	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3552.8**	**3319.6**	**67467.**	**5911.7**
Stddev	2.5	2.1	97.	10.9
%RSD	.07110	.06181	.14444	.18511
#1	3554.6	3318.2	67398.	5919.4
#2	3551.1	3321.1	67536.	5903.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.095%	93.997%	93.515%	96.472%
Range				

Sample Name: 480-198490-B-9-A Acquired: 6/9/2022 15:10:10 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00080**	**-.01835**	**.00138**	**.07836**	**.02442**
Stddev	.00063	.01268	.00113	.00007	.00002
%RSD	79.416	69.088	81.462	.08841	.08718
#1	-.00035	-.00939	.00218	.07841	.02441
#2	-.00124	-.02732	.00059	.07832	.02444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**83.030**	**.00006**	**-.0312**	**.00053**
Stddev	.00005	.034	.00001	.0004	.00023
%RSD	1029.5	.04124	23.052	1.392	42.197
#1	.00004	83.006	.00005	-.0315	.00037
#2	-.00003	83.055	.00007	-.0309	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**-.00030**	**.85107**	**2.1106**	**.00261**
Stddev	.00011	.00015	.00088	.0427	.00080
%RSD	41.575	49.679	.10311	2.0224	30.616
#1	-.00034	-.00019	.85169	2.0804	.00205
#2	-.00018	-.00041	.85045	2.1408	.00318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-9-A Acquired: 6/9/2022 15:10:10 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**44.506**	**.22598**	**-.00072**	**14.310**	**.00358**
Stddev	.048	.00006	.00003	.005	.00005
%RSD	.10758	.02651	4.3989	.03792	1.4806
#1	44.540	.22594	-.00069	14.306	.00362
#2	44.473	.22602	-.00074	14.314	.00355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00237**	**7.4143**	**-.00292**	**-.00861**
Stddev	.00	.00004	.0042	.00003	.00078
%RSD	.0053	1.5545	.05686	.97662	9.0700
#1	25.01	.00240	7.4113	-.00290	-.00806
#2	25.00	.00234	7.4173	-.00294	-.00916
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.9771**	**-.00150**	**.06315**	**.9972**	**.00009**
Stddev	.0192	.00046	.00002	.0011	.00002
%RSD	.24005	30.363	.03172	.1072	27.014
#1	7.9636	-.00183	.06313	.9965	.00011
#2	7.9906	-.00118	.06316	.9980	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-9-A Acquired: 6/9/2022 15:10:10 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00271**	**-.00034**	**-.00033**	**.9990**
Stddev	.00079	.00011	.00052	.0004
%RSD	29.226	32.263	157.45	.0380
#1	.00327	-.00042	.00004	.9992
#2	.00215	-.00026	-.00070	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3594.3**	**3357.8**	**68330.**	**5973.0**
Stddev	1.0	3.3	112.	1.7
%RSD	.02711	.09775	.16358	.02877
#1	3595.0	3360.1	68251.	5971.8
#2	3593.6	3355.5	68409.	5974.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.135%	95.078%	94.712%	97.474%
Range				

Sample Name: 480-198490-B-10-A Acquired: 6/9/2022 15:14:00 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**-.02224**	**.01491**	**.08276**	**.03994**
Stddev	.00059	.02688	.00192	.00072	.00002
%RSD	70.845	120.83	12.898	.86704	.05958
#1	-.00042	-.00324	.01627	.08326	.03995
#2	-.00125	-.04125	.01355	.08225	.03992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**80.440**	**-.00001**	**-.0158**	**.00002**
Stddev	.00004	.055	.00014	.0036	.00011
%RSD	429.41	.06782	1043.7	22.77	706.02
#1	-.00002	80.401	.00009	-.0183	.00010
#2	.00004	80.478	-.00012	-.0132	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**-.00017**	**1.4987**	**.87231**	**.00333**
Stddev	.00007	.00013	.0018	.00534	.00106
%RSD	12.261	79.728	.11838	.61250	31.693
#1	-.00052	-.00026	1.4974	.86853	.00259
#2	-.00062	-.00007	1.4999	.87609	.00408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-10-A Acquired: 6/9/2022 15:14:00 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**42.418**	**.19765**	**-.00029**	**17.109**	**.00312**
Stddev	.106	.00045	.00041	.020	.00010
%RSD	.25091	.22699	143.77	.11948	3.2028
#1	42.343	.19733	.00000	17.123	.00319
#2	42.494	.19796	-.00058	17.094	.00305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00088**	**6.1580**	**-.00326**	**-.00620**
Stddev	.00	.00044	.0027	.00171	.00083
%RSD	.0030	50.288	.04407	52.362	13.333
#1	25.00	.00057	6.1560	-.00205	-.00562
#2	25.00	.00119	6.1599	-.00446	-.00679
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.8302**	**-.00097**	**.07416**	**.9968**	**.00006**
Stddev	.0019	.00056	.00012	.0042	.00016
%RSD	.02726	57.385	.16549	.4230	253.73
#1	6.8289	-.00058	.07424	.9998	-.00005
#2	6.8315	-.00136	.07407	.9938	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-10-A Acquired: 6/9/2022 15:14:00 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00145**	**-.00017**	**-.00124**	**.9998**
Stddev	.00116	.00006	.00031	.0000
%RSD	79.819	32.078	25.321	.0023
#1	.00227	-.00013	-.00146	.9997
#2	.00063	-.00021	-.00102	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3536.2**	**3305.7**	**67300.**	**5895.4**
Stddev	3.4	3.6	28.	15.4
%RSD	.09489	.11003	.04212	.26156
#1	3533.8	3303.1	67320.	5884.5
#2	3538.6	3308.2	67280.	5906.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.678%	93.602%	93.283%	96.206%
Range				

Sample Name: 480-198490-B-11-A Acquired: 6/9/2022 15:17:51 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**-.00888**	**.00013**	**.03391**	**.06706**
Stddev	.00029	.00237	.00278	.00028	.00000
%RSD	53.840	26.700	2205.3	.82299	.00713
#1	-.00074	-.01056	.00209	.03411	.06706
#2	-.00033	-.00720	-.00184	.03371	.06706
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**78.259**	**.00009**	**-.0234**	**-.00010**
Stddev	.00006	.104	.00010	.0275	.00015
%RSD	216.17	.13340	110.86	117.4	153.24
#1	-.00007	78.333	.00016	-.0428	-.00020
#2	.00001	78.185	.00002	-.0040	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.00086**	**.00253**	**4.2335**	**.00282**
Stddev	.00023	.00010	.00198	.0147	.00006
%RSD	51.428	12.072	78.330	.34686	2.1638
#1	-.00062	.00093	.00393	4.2439	.00278
#2	-.00029	.00079	.00113	4.2231	.00286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-11-A Acquired: 6/9/2022 15:17:51 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**44.068**	**.03103**	**-.00140**	**14.449**	**.00159**
Stddev	.000	.00012	.00003	.008	.00009
%RSD	.00053	.40278	1.8260	.05749	5.8724
#1	44.068	.03111	-.00142	14.455	.00153
#2	44.067	.03094	-.00138	14.443	.00166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00093**	**8.1087**	**-.00117**	**-.00781**
Stddev	.00	.00138	.0004	.00116	.00400
%RSD	.0079	147.79	.00529	99.798	51.232
#1	25.02	.00191	8.1090	-.00034	-.00498
#2	25.02	-.00004	8.1084	-.00199	-.01064
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.6526**	**-.00120**	**.07704**	**.9925**	**.00050**
Stddev	.0445	.00048	.00007	.0022	.00003
%RSD	.51402	39.935	.08843	.2220	5.9349
#1	8.6841	-.00154	.07699	.9909	.00048
#2	8.6212	-.00086	.07709	.9940	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198490-B-11-A Acquired: 6/9/2022 15:17:51 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00426**	**.00064**	**-.00166**	**.9992**
Stddev	.00039	.00016	.00009	.0003
%RSD	9.1511	25.682	5.2033	.0333
#1	.00453	.00075	-.00172	.9989
#2	.00398	.00052	-.00160	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3563.9**	**3342.6**	**67633.**	**6022.3**
Stddev	1.6	1.8	6.	12.8
%RSD	.04351	.05454	.00934	.21336
#1	3562.8	3341.3	67629.	6013.2
#2	3565.0	3343.9	67638.	6031.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.373%	94.647%	93.746%	98.277%
Range				

Sample Name: CCV-7024752 Acquired: 6/9/2022 15:21:41 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99128**	**48.931**	**.98756**	**1.0112**	**.96635**
Stddev	.00052	.070	.00114	.0015	.00159
%RSD	.05279	.14341	.11494	.15219	.16480
#1	.99091	48.882	.98676	1.0101	.96522
#2	.99165	48.981	.98837	1.0123	.96748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97527**	**49.591**	**.99295**	**.9496**	**.98734**
Stddev	.00177	.018	.00065	.0237	.00150
%RSD	.18123	.03604	.06573	2.491	.15166
#1	.97402	49.578	.99249	.9329	.98628
#2	.97652	49.603	.99341	.9664	.98840
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99914**	**.99676**	**50.428**	**49.213**	**.95252**
Stddev	.00355	.00162	.360	.104	.00519
%RSD	.35580	.16302	.71398	.21046	.54453
#1	.99663	.99561	50.173	49.140	.94886
#2	1.0017	.99791	50.682	49.286	.95619
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 15:21:41 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.730**	**1.0168**	**.98709**	**48.586**	**.99820**
Stddev	.027	.0004	.00052	.066	.00216
%RSD	.05389	.03467	.05245	.13637	.21617
#1	50.750	1.0170	.98746	48.539	.99668
#2	50.711	1.0165	.98673	48.633	.99973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.57**	**.99760**	**24.989**	**.98992**	**.99215**
Stddev	.02	.00150	.027	.00432	.00823
%RSD	.0512	.15071	.11001	.43607	.82950
#1	37.55	.99653	24.970	.98687	.99797
#2	37.58	.99866	25.009	.99297	.98633
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8582**	**.99460**	**.98815**	**1.490**	**.99401**
Stddev	.0046	.00038	.00056	.003	.00045
%RSD	.04661	.03802	.05644	.1742	.04574
#1	9.8549	.99434	.98775	1.492	.99369
#2	9.8614	.99487	.98854	1.488	.99433
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 15:21:41 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0031**	**1.0071**	**1.0399**	**1.498**
Stddev	.0019	.0014	.0036	.001
%RSD	.19312	.14164	.34613	.0555
#1	1.0017	1.0061	1.0374	1.498
#2	1.0045	1.0081	1.0425	1.499
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3433.6**	**3365.5**	**66834.**	**5952.0**
Stddev	4.5	3.2	107.	6.5
%RSD	.13086	.09368	.16038	.10897
#1	3436.8	3367.7	66759.	5956.6
#2	3430.4	3363.3	66910.	5947.4

Sample Name: CCB-7026764 Acquired: 6/9/2022 15:25:21 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**-.01514**	**.00060**	**.00026**	**.00004**
Stddev	.00046	.01124	.00155	.00010	.00000
%RSD	76.069	74.246	258.72	36.010	5.6403
#1	-.00028	-.02308	-.00050	.00033	.00004
#2	-.00092	-.00719	.00170	.00020	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00129**	**.00008**	**-.0165**	**.00005**
Stddev	.00000	.00199	.00005	.0001	.00007
%RSD	37.225	154.05	58.710	.8609	150.94
#1	-.00001	.00270	.00005	-.0166	.00010
#2	-.00001	-.00012	.00011	-.0164	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00017**	**.00735**	**.04184**	**-.00026**
Stddev	.00012	.00022	.00130	.00373	.00074
%RSD	137.45	133.46	17.687	8.9075	281.35
#1	-.00000	.00032	.00827	.04447	.00026
#2	-.00018	.00001	.00643	.03920	-.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 15:25:21 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.00006**	**.00289**	**-.01302**	**.00011**
Stddev	.00056	.00001	.00065	.00320	.00001
%RSD	139.87	9.9116	22.459	24.535	12.422
#1	.00000	.00005	.00243	-.01528	.00012
#2	.00080	.00006	.00335	-.01076	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00015**	**-.01187**	**.00108**	**.00388**
Stddev	.00	.00037	.00037	.00105	.00027
%RSD	.0062	247.87	3.1106	97.817	6.8288
#1	25.00	.00011	-.01161	.00182	.00370
#2	25.00	-.00041	-.01213	.00033	.00407
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02122**	**.00011**	**.00003**	**1.000**	**.00029**
Stddev	.00500	.00013	.00012	.000	.00028
%RSD	23.568	114.15	362.37	.0086	97.320
#1	-.02476	.00002	-.00005	1.000	.00009
#2	-.01769	.00020	.00012	1.000	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 15:25:21 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00178**	**-.00007**	**.00008**	**.9992**
Stddev	.00009	.00010	.00076	.0000
%RSD	4.9817	149.08	994.64	.0012
#1	.00172	.00000	-.00046	.9992
#2	.00185	-.00014	.00061	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4006.4**	**3540.2**	**71795.**	**6033.6**
Stddev	1.4	1.7	106.	7.3
%RSD	.03527	.04671	.14760	.12172
#1	4005.4	3539.0	71720.	6028.4
#2	4007.4	3541.3	71870.	6038.8

Sample Name: CCVL-7019501 Acquired: 6/9/2022 15:29:15 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00546**	**.16357**	**.01368**	**.01853**	**.00203**
Stddev	.00098	.02272	.00003	.00039	.00003
%RSD	17.874	13.887	.25318	2.1039	1.3436
#1	.00615	.14750	.01370	.01825	.00205
#2	.00477	.17963	.01365	.01880	.00201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00198**	**.48865**	**.00192**	**.0013**	**.00367**
Stddev	.00005	.00144	.00002	.0235	.00007
%RSD	2.4408	.29403	1.0359	1829.	1.7932
#1	.00195	.48764	.00191	.0179	.00372
#2	.00202	.48967	.00194	-.0153	.00363
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00351**	**.01006**	**.04789**	**.48943**	**.02633**
Stddev	.00002	.00002	.00215	.02825	.00145
%RSD	.53587	.21000	4.4905	5.7726	5.4924
#1	.00352	.01008	.04941	.46945	.02736
#2	.00349	.01005	.04637	.50940	.02531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7019501 Acquired: 6/9/2022 15:29:15 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19572**	**.00293**	**.00944**	**.91933**	**.00952**
Stddev	.00045	.00011	.00005	.00725	.00024
%RSD	.22833	3.7424	.48316	.78911	2.5573
#1	.19540	.00301	.00941	.92446	.00934
#2	.19604	.00285	.00947	.91420	.00969
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00875**	**.16979**	**.01948**	**.02304**
Stddev	.00	.00001	.00033	.00104	.00117
%RSD	.0026	.05737	.19238	5.3137	5.0782
#1	25.00	.00875	.17002	.01875	.02387
#2	25.00	.00874	.16956	.02021	.02221
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.43271**	**.00877**	**.00490**	F **.9947**	**.00425**
Stddev	.00096	.00060	.00005	.0044	.00005
%RSD	.22213	6.8219	1.0561	.4418	1.0656
#1	.43339	.00835	.00494	.9978	.00422
#2	.43203	.00919	.00486	.9916	.00428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7019501 Acquired: 6/9/2022 15:29:15 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01987**	**.00473**	**.00713**	F **.9998**
Stddev	.00193	.00011	.00029	.0007
%RSD	9.7096	2.4259	4.0288	.0727
#1	.01850	.00465	.00693	.9993
#2	.02123	.00482	.00734	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3979.7**	**3540.1**	**71635.**	**6078.4**
Stddev	1.6	2.8	109.	13.0
%RSD	.03984	.07967	.15282	.21352
#1	3978.6	3542.1	71558.	6069.3
#2	3980.8	3538.1	71712.	6087.6

Sample Name: 480-198542-B-1-A Acquired: 6/9/2022 15:33:08 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**-.00974**	**.00071**	**.00219**	**.00168**
Stddev	.00026	.02911	.00004	.00024	.00004
%RSD	40.588	298.91	5.3305	10.834	2.2406
#1	-.00083	-.03032	.00074	.00202	.00165
#2	-.00046	.01085	.00069	.00236	.00170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**1.6244**	**.00006**	**-.0167**	**.00005**
Stddev	.00003	.0084	.00004	.0350	.00011
%RSD	448.22	.51952	70.997	210.3	229.97
#1	-.00002	1.6303	.00010	.0081	.00012
#2	.00003	1.6184	.00003	-.0414	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.00477**	**.00638**	**.17451**	**-.00039**
Stddev	.00015	.00054	.00004	.01617	.00091
%RSD	34.136	11.350	.60112	9.2677	232.97
#1	-.00034	.00439	.00635	.16307	.00025
#2	-.00055	.00516	.00641	.18595	-.00103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198542-B-1-A Acquired: 6/9/2022 15:33:08 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.61111**	**.00408**	**-.00114**	**.19893**	**.00024**
Stddev	.00039	.00006	.00021	.00182	.00007
%RSD	.06389	1.5559	18.672	.91327	28.397
#1	.61139	.00404	-.00129	.19765	.00029
#2	.61084	.00413	-.00099	.20021	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00002**	**.40217**	**-.00312**	**-.00740**
Stddev	.00	.00170	.00122	.00245	.00301
%RSD	.0008	10361.	.30360	78.397	40.763
#1	25.00	.00119	.40130	-.00486	-.00953
#2	25.00	-.00122	.40303	-.00139	-.00526
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08817**	**-.00021**	**.03145**	**.9973**	**-.00044**
Stddev	.00853	.00004	.00008	.0036	.00003
%RSD	9.6761	18.340	.26134	.3593	6.3223
#1	.09421	-.00019	.03151	.9999	-.00042
#2	.08214	-.00024	.03139	.9948	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198542-B-1-A Acquired: 6/9/2022 15:33:08 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00025**	**-.00015**	**.00166**	**.9994**
Stddev	.00063	.00019	.00006	.0002
%RSD	254.28	120.73	3.9036	.0177
#1	.00069	-.00002	.00161	.9992
#2	-.00020	-.00029	.00170	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3902.0**	**3445.4**	**69791.**	**5982.6**
Stddev	5.0	3.9	76.	14.3
%RSD	.12704	.11407	.10911	.23886
#1	3898.5	3442.6	69737.	5972.5
#2	3905.5	3448.1	69845.	5992.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.851%	97.558%	96.736%	97.630%
Range				

Sample Name: 480-198542-B-2-A Acquired: 6/9/2022 15:36:59 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**-.00169**	**.01305**	**.09442**	**.10611**
Stddev	.00006	.00426	.00114	.00008	.00014
%RSD	14.876	252.41	8.7341	.08271	.13470
#1	-.00043	.00133	.01224	.09447	.10621
#2	-.00035	-.00470	.01385	.09436	.10601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**65.314**	**.00001**	**-.0165**	**-.00004**
Stddev	.00003	.111	.00011	.0168	.00031
%RSD	272.79	.16974	1316.1	102.2	702.46
#1	.00001	65.393	.00009	-.0284	-.00026
#2	-.00003	65.236	-.00007	-.0046	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.00384**	**.01586**	**1.9544**	**.02886**
Stddev	.00031	.00064	.00191	.0069	.00023
%RSD	100.78	16.609	12.014	.35478	.78608
#1	-.00009	.00338	.01721	1.9495	.02902
#2	-.00052	.00429	.01452	1.9593	.02870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198542-B-2-A Acquired: 6/9/2022 15:36:59 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**106.42**	**.00665**	**.00173**	**12.017**	**.00091**
Stddev	.09	.00011	.00015	.007	.00042
%RSD	.07992	1.5969	8.5515	.05573	46.465
#1	106.36	.00657	.00162	12.021	.00120
#2	106.48	.00672	.00183	12.012	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00210**	**70.900**	**-.00337**	**-.00816**
Stddev	.00	.00054	.093	.00018	.00150
%RSD	.0020	25.849	.13072	5.4917	18.427
#1	25.02	.00248	70.834	-.00350	-.00709
#2	25.02	.00171	70.965	-.00324	-.00922
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.098**	**-.00129**	**1.6115**	**.9909**	**.00052**
Stddev	.036	.00012	.0020	.0030	.00042
%RSD	.29906	9.3454	.12489	.3002	79.696
#1	12.124	-.00121	1.6129	.9931	.00023
#2	12.073	-.00138	1.6100	.9888	.00082
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198542-B-2-A Acquired: 6/9/2022 15:36:59 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00013**	**.00997**	**.9992**
Stddev	.00002	.00014	.00064	.0003
%RSD	4.2434	103.99	6.4680	.0346
#1	.00043	.00023	.00951	.9995
#2	.00046	.00004	.01042	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3542.9**	**3323.5**	**68184.**	**5963.3**
Stddev	4.9	.3	57.	16.2
%RSD	.13707	.00852	.08351	.27137
#1	3546.3	3323.7	68143.	5951.9
#2	3539.5	3323.3	68224.	5974.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.846%	94.106%	94.509%	97.315%
Range				

Sample Name: 480-198542-B-3-A Acquired: 6/9/2022 15:40:49 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**-.00553**	**.00254**	**.00487**	**.08260**
Stddev	.00038	.00718	.00083	.00005	.00006
%RSD	49.540	129.88	32.802	1.0807	.07421
#1	-.00103	-.00045	.00313	.00490	.08256
#2	-.00050	-.01061	.00195	.00483	.08265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**81.613**	**.00004**	**-.0104**	**-.00023**
Stddev	.00000	.358	.00006	.0161	.00007
%RSD	16.273	.43825	165.63	155.1	29.076
#1	-.00002	81.866	.00008	-.0218	-.00018
#2	-.00002	81.360	-.00001	.0010	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.00471**	**.00849**	**.42452**	**.00603**
Stddev	.00014	.00004	.00038	.01266	.00015
%RSD	103.25	.89129	4.5001	2.9819	2.5403
#1	-.00004	.00474	.00876	.43347	.00614
#2	-.00023	.00468	.00822	.41557	.00592
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198542-B-3-A Acquired: 6/9/2022 15:40:49 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.929**	**.00357**	**-.00074**	**10.768**	**.00064**
Stddev	.046	.00003	.00020	.025	.00024
%RSD	.09386	.86816	27.409	.23680	38.024
#1	48.897	.00355	-.00088	10.786	.00047
#2	48.962	.00359	-.00060	10.750	.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00121**	**7.9247**	**-.00285**	**-.00875**
Stddev	.00	.00023	.0104	.00135	.00447
%RSD	.0036	18.816	.13087	47.448	51.051
#1	25.02	.00137	7.9174	-.00381	-.01191
#2	25.02	.00105	7.9321	-.00190	-.00559
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.6614**	**-.00055**	**.20819**	**1.002**	**.00007**
Stddev	.0017	.00051	.00009	.001	.00008
%RSD	.02505	93.866	.04440	.1365	108.04
#1	6.6626	-.00018	.20825	1.001	.00002
#2	6.6603	-.00091	.20812	1.003	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198542-B-3-A Acquired: 6/9/2022 15:40:49 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00155**	**.00015**	**.00119**	**.9989**
Stddev	.00042	.00015	.00064	.0005
%RSD	26.783	99.355	53.574	.0493
#1	.00185	.00005	.00074	.9985
#2	.00126	.00026	.00164	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3514.9**	**3277.8**	**66923.**	**5939.8**
Stddev	3.8	4.2	71.	51.0
%RSD	.10932	.12780	.10569	.85850
#1	3512.1	3280.8	66973.	5903.7
#2	3517.6	3274.8	66873.	5975.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.143%	92.813%	92.761%	96.931%
Range				

Sample Name: 480-198542-B-4-A Acquired: 6/9/2022 15:44:38 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.02744**	**.00185**	**.10411**	**.11616**
Stddev	.00022	.00957	.00332	.00052	.00016
%RSD	728.70	34.873	179.20	.49812	.13619
#1	-.00013	-.02068	-.00049	.10374	.11628
#2	.00019	-.03421	.00420	.10448	.11605
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**47.602**	**.00005**	**-.0187**	**-.00033**
Stddev	.00002	.063	.00036	.0072	.00003
%RSD	33.058	.13277	690.77	38.27	7.8770
#1	-.00004	47.557	.00031	-.0238	-.00035
#2	-.00007	47.646	-.00020	-.0137	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00091**	**.02666**	**1.3594**	**.01342**
Stddev	.00027	.00053	.00034	.0038	.00007
%RSD	134.73	58.245	1.2615	.28182	.49633
#1	.00039	.00129	.02690	1.3567	.01347
#2	.00001	.00054	.02642	1.3621	.01337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198542-B-4-A Acquired: 6/9/2022 15:44:38 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.117**	**.01782**	**.00023**	**24.446**	**.00039**
Stddev	.057	.00006	.00002	.017	.00016
%RSD	.11246	.34567	9.2818	.07059	40.560
#1	51.157	.01787	.00025	24.434	.00028
#2	51.076	.01778	.00022	24.458	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00270**	**14.015**	**-.00071**	**-.00613**
Stddev	.00	.00125	.014	.00063	.00338
%RSD	.0015	46.206	.10314	89.024	55.143
#1	25.01	.00359	14.005	-.00026	-.00852
#2	25.01	.00182	14.025	-.00115	-.00374
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.717**	**-.00106**	**1.0031**	**.9979**	**.00025**
Stddev	.006	.00012	.0001	.0008	.00006
%RSD	.04322	11.480	.00458	.0798	21.743
#1	13.713	-.00097	1.0031	.9984	.00029
#2	13.722	-.00115	1.0032	.9973	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198542-B-4-A Acquired: 6/9/2022 15:44:38 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00115**	**-.00014**	**-.00053**	**.9999**
Stddev	.00008	.00042	.00023	.0002
%RSD	7.3005	299.98	43.781	.0232
#1	.00109	-.00044	-.00069	1.000
#2	.00121	.00016	-.00036	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3509.0**	**3271.7**	**66328.**	**5906.3**
Stddev	5.1	1.4	191.	19.6
%RSD	.14633	.04416	.28735	.33209
#1	3512.7	3272.7	66193.	5920.1
#2	3505.4	3270.6	66463.	5892.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.996%	92.640%	91.937%	96.384%
Range				

Sample Name: 480-198542-B-5-A Acquired: 6/9/2022 15:48:29 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00087**	**-.04323**	**.00199**	**.07284**	**.14607**
Stddev	.00032	.00972	.00048	.00063	.00011
%RSD	36.811	22.477	24.105	.86172	.07588
#1	-.00110	-.05010	.00165	.07328	.14615
#2	-.00065	-.03636	.00233	.07239	.14599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**119.23**	**.00015**	**-.0297**	**.00128**
Stddev	.00000	.03	.00024	.0526	.00016
%RSD	7.4651	.02480	153.37	177.2	12.532
#1	.00003	119.21	-.00001	-.0668	.00116
#2	.00003	119.25	.00032	.0075	.00139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00099**	**.00751**	**5.0801**	**.00835**
Stddev	.00026	.00038	.00158	.0061	.00024
%RSD	617.64	38.122	21.113	.12002	2.8635
#1	-.00014	.00073	.00863	5.0844	.00818
#2	.00023	.00126	.00639	5.0758	.00852
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198542-B-5-A Acquired: 6/9/2022 15:48:29 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**56.292**	**.38456**	**-.00082**	**28.298**	**.00554**
Stddev	.135	.00097	.00031	.006	.00028
%RSD	.23905	.25257	37.185	.01983	4.9931
#1	56.387	.38525	-.00104	28.294	.00534
#2	56.197	.38387	-.00061	28.302	.00573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00228**	**42.029**	**-.00369**	**-.01022**
Stddev	.00	.00019	.060	.00267	.00188
%RSD	.0005	8.1461	.14347	72.204	18.421
#1	25.01	.00241	42.071	-.00558	-.00889
#2	25.01	.00215	41.986	-.00181	-.01155
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.1667**	**-.00181**	**.13594**	**.9961**	**.00008**
Stddev	.0107	.00020	.00012	.0010	.00004
%RSD	.14923	10.929	.08629	.0980	52.317
#1	7.1742	-.00195	.13602	.9968	.00011
#2	7.1591	-.00167	.13585	.9954	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198542-B-5-A Acquired: 6/9/2022 15:48:29 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00238**	**.00029**	**.00476**	**.9988**
Stddev	.00194	.00025	.00069	.0005
%RSD	81.309	86.613	14.457	.0541
#1	.00101	.00047	.00524	.9992
#2	.00375	.00011	.00427	.9984
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3416.8**	**3217.3**	**65565.**	**5848.8**
Stddev	.1	1.0	84.	11.4
%RSD	.00266	.02954	.12877	.19442
#1	3416.7	3218.0	65505.	5856.9
#2	3416.8	3216.6	65625.	5840.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.683%	91.100%	90.879%	95.446%
Range				

Sample Name: 480-198542-B-6-A Acquired: 6/9/2022 15:52:18 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00103**	**-.03926**	**.00204**	**.14113**	**.23928**
Stddev	.00018	.01452	.00077	.00026	.00006
%RSD	17.655	36.991	37.672	.18395	.02619
#1	-.00090	-.02899	.00149	.14131	.23923
#2	-.00115	-.04953	.00258	.14095	.23932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**89.471**	**.00009**	**-.0224**	**-.00017**
Stddev	.00003	.111	.00013	.0047	.00002
%RSD	210.49	.12373	143.47	20.91	12.996
#1	.00003	89.549	-.00000	-.0258	-.00019
#2	-.00001	89.392	.00018	-.0191	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00060**	**.56399**	**1.7322**	**.00861**
Stddev	.00008	.00022	.00134	.0390	.00033
%RSD	96.347	36.224	.23774	2.2508	3.8318
#1	-.00014	-.00045	.56305	1.7598	.00838
#2	-.00003	-.00076	.56494	1.7046	.00884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198542-B-6-A Acquired: 6/9/2022 15:52:18 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**61.417**	**.01656**	**.00029**	**38.959**	**.00114**
Stddev	.033	.00006	.00004	.053	.00016
%RSD	.05306	.33756	12.746	.13600	14.286
#1	61.440	.01660	.00027	38.997	.00102
#2	61.394	.01652	.00032	38.922	.00125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00196**	**14.257**	**-.00234**	**-.01054**
Stddev	.00	.00051	.037	.00287	.00475
%RSD	.0006	26.148	.26279	122.68	45.053
#1	25.01	.00160	14.283	-.00031	-.01390
#2	25.01	.00233	14.230	-.00437	-.00718
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.836**	**-.00027**	**1.3031**	**.9974**	**.00026**
Stddev	.125	.00025	.0027	.0023	.00021
%RSD	1.1543	91.871	.20710	.2293	80.004
#1	10.924	-.00044	1.3050	.9990	.00041
#2	10.747	-.00009	1.3012	.9958	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198542-B-6-A Acquired: 6/9/2022 15:52:18 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00154**	**-.00005**	**-.00202**	**.9997**
Stddev	.00038	.00022	.00062	.0006
%RSD	24.414	456.31	30.867	.0590
#1	.00180	-.00020	-.00158	1.000
#2	.00127	.00011	-.00246	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3417.0**	**3233.0**	**65697.**	**5866.6**
Stddev	4.4	4.3	74.	4.6
%RSD	.12741	.13256	.11237	.07762
#1	3420.0	3229.9	65645.	5869.8
#2	3413.9	3236.0	65749.	5863.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.688%	91.544%	91.062%	95.737%
Range				

Sample Name: 480-198542-B-7-A Acquired: 6/9/2022 15:56:09 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00087**	**-.00913**	**.00038**	**.13140**	**.19899**
Stddev	.00078	.00820	.00066	.00069	.00023
%RSD	89.788	89.832	175.04	.52356	.11734
#1	-.00032	-.01493	-.00009	.13092	.19915
#2	-.00142	-.00333	.00085	.13189	.19882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**59.510**	**.00011**	**-.0032**	**-.00011**
Stddev	.00000	.176	.00023	.0077	.00001
%RSD	1.5948	.29611	209.04	239.9	6.7470
#1	.00002	59.635	-.00005	-.0087	-.00012
#2	.00002	59.386	.00027	.0022	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00855**	**.13798**	**2.0001**	**.01391**
Stddev	.00002	.00000	.00203	.0157	.00298
%RSD	45.025	.00244	1.4703	.78537	21.445
#1	.00003	.00855	.13941	1.9890	.01602
#2	.00006	.00855	.13655	2.0112	.01180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198542-B-7-A Acquired: 6/9/2022 15:56:09 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.991**	**.01642**	**.00072**	**21.144**	**.00170**
Stddev	.072	.00004	.00008	.087	.00012
%RSD	.14478	.25596	11.533	.40989	7.0016
#1	50.042	.01639	.00078	21.205	.00179
#2	49.940	.01645	.00066	21.083	.00162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00193**	**7.8292**	**-.00247**	**-.00784**
Stddev	.00	.00015	.0021	.00039	.00002
%RSD	.0027	7.8185	.02704	15.793	.19159
#1	25.01	.00182	7.8277	-.00220	-.00785
#2	25.01	.00204	7.8307	-.00275	-.00783
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.007**	**-.00132**	**1.0720**	**.9960**	**.00018**
Stddev	.305	.00090	.0049	.0015	.00011
%RSD	1.6925	68.547	.46039	.1548	62.198
#1	18.222	-.00195	1.0754	.9971	.00026
#2	17.791	-.00068	1.0685	.9949	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198542-B-7-A Acquired: 6/9/2022 15:56:09 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00228**	**-.00052**	**.00165**	**.9993**
Stddev	.00069	.00030	.00054	.0009
%RSD	30.180	57.331	32.536	.0862
#1	.00180	-.00073	.00127	.9999
#2	.00277	-.00031	.00203	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3536.1**	**3317.7**	**67648.**	**5920.6**
Stddev	.3	.3	145.	14.2
%RSD	.00834	.00970	.21477	.23963
#1	3536.3	3317.4	67546.	5910.5
#2	3535.9	3317.9	67751.	5930.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.674%	93.942%	93.767%	96.617%
Range				

Sample Name: 480-198542-B-8-A Acquired: 6/9/2022 15:59:59 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00085**	**-.01783**	**.00276**	**.11542**	**.08551**
Stddev	.00016	.00703	.00132	.00049	.00004
%RSD	18.449	39.452	47.944	.42251	.05142
#1	-.00074	-.02280	.00182	.11507	.08554
#2	-.00096	-.01285	.00369	.11576	.08548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**59.217**	**.00003**	**-.0303**	**-.00002**
Stddev	.00002	.068	.00023	.0128	.00002
%RSD	78.486	.11532	813.02	42.38	101.28
#1	.00003	59.266	-.00014	-.0394	-.00004
#2	.00001	59.169	.00019	-.0212	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**-.00070**	**.28770**	**1.7258**	**.01343**
Stddev	.00003	.00022	.00172	.0052	.00049
%RSD	6.5293	32.045	.59802	.30263	3.6680
#1	-.00037	-.00086	.28891	1.7295	.01308
#2	-.00041	-.00054	.28648	1.7221	.01378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198542-B-8-A Acquired: 6/9/2022 15:59:59 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**53.160**	**.01317**	**.00053**	**20.131**	**.00226**
Stddev	.096	.00001	.00034	.035	.00028
%RSD	.17975	.09291	62.962	.17563	12.455
#1	53.227	.01316	.00030	20.156	.00246
#2	53.092	.01318	.00077	20.106	.00206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00277**	**13.508**	**-.00215**	**-.00929**
Stddev	.00	.00014	.000	.00074	.00392
%RSD	.0030	5.1406	.00269	34.548	42.205
#1	25.00	.00287	13.508	-.00267	-.00651
#2	25.00	.00267	13.508	-.00162	-.01206
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.197**	**-.00072**	**5.9171**	**.9932**	**-.00018**
Stddev	.013	.00054	.0318	.0069	.00006
%RSD	.10354	73.920	.53769	.6948	33.342
#1	12.188	-.00110	5.9395	.9883	-.00014
#2	12.206	-.00035	5.8946	.9981	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198542-B-8-A Acquired: 6/9/2022 15:59:59 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00173**	**-.00030**	**-.00197**	**.9990**
Stddev	.00001	.00025	.00015	.0005
%RSD	.67291	81.897	7.4967	.0503
#1	.00172	-.00048	-.00186	.9987
#2	.00174	-.00013	-.00207	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3550.8**	**3323.9**	**67878.**	**5926.6**
Stddev	3.2	3.4	197.	12.5
%RSD	.08943	.10198	.28958	.21093
#1	3553.1	3321.6	67739.	5917.7
#2	3548.6	3326.3	68017.	5935.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.045%	94.120%	94.086%	96.715%
Range				

Sample Name: 480-198542-B-9-A Acquired: 6/9/2022 16:03:55 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**-.00360**	**.00325**	**.06987**	**.10588**
Stddev	.00035	.00308	.00298	.00018	.00004
%RSD	54.131	85.521	91.923	.26028	.03480
#1	-.00090	-.00142	.00536	.06974	.10590
#2	-.00040	-.00578	.00114	.06999	.10585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**37.549**	**.00005**	**-.0280**	**-.00012**
Stddev	.00003	.018	.00009	.0029	.00006
%RSD	105.02	.04817	168.73	10.37	49.876
#1	.00005	37.537	.00012	-.0260	-.00016
#2	.00001	37.562	-.00001	-.0301	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00004**	**.00960**	**2.6284**	**.00709**
Stddev	.00011	.00013	.00102	.0069	.00026
%RSD	146.46	333.41	10.623	.26444	3.6475
#1	.00000	-.00013	.00888	2.6333	.00691
#2	-.00016	.00005	.01033	2.6234	.00728
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198542-B-9-A Acquired: 6/9/2022 16:03:55 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.812**	**.01708**	**.00146**	**17.670**	**.00023**
Stddev	.007	.00003	.00018	.023	.00016
%RSD	.02605	.15483	12.357	.13243	69.598
#1	26.807	.01710	.00159	17.687	.00012
#2	26.817	.01706	.00133	17.654	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00040**	**10.888**	**-.00332**	**-.00648**
Stddev	.00	.00110	.015	.00071	.00311
%RSD	.0013	275.92	.13335	21.354	47.940
#1	25.01	.00117	10.898	-.00382	-.00428
#2	25.01	-.00038	10.878	-.00282	-.00867
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.9764**	**-.00063**	**.52282**	**.9971**	**-.00015**
Stddev	.0393	.00027	.00047	.0013	.00023
%RSD	.43755	42.834	.09050	.1319	149.60
#1	9.0042	-.00044	.52315	.9962	-.00031
#2	8.9486	-.00082	.52248	.9981	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198542-B-9-A Acquired: 6/9/2022 16:03:55 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	.00172	-.00046	-.00204	.9997
Stddev	.00003	.00009	.00020	.0003
%RSD	1.9755	20.136	9.8106	.0347
#1	.00174	-.00040	-.00190	.9995
#2	.00170	-.00053	-.00218	1.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3615.5	3340.0	68145.	5953.1
Stddev	5.6	6.3	152.	7.3
%RSD	.15488	.18742	.22360	.12186
#1	3611.6	3335.5	68037.	5948.0
#2	3619.5	3344.4	68253.	5958.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.668%	94.573%	94.455%	97.148%
Range				

Sample Name: CCV-7024752 Acquired: 6/9/2022 16:07:46 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98398**	**48.560**	**.98484**	**1.0074**	**.96398**
Stddev	.00044	.000	.00376	.0009	.00000
%RSD	.04452	.00053	.38145	.09235	.00022
#1	.98368	48.561	.98749	1.0067	.96398
#2	.98429	48.560	.98218	1.0080	.96398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96870**	**49.016**	**.98898**	**.9692**	**.98276**
Stddev	.00067	.038	.00053	.0064	.00123
%RSD	.06882	.07773	.05400	.6599	.12491
#1	.96917	49.043	.98860	.9647	.98363
#2	.96822	48.989	.98936	.9738	.98189
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98602**	**.99020**	**49.895**	**48.891**	**.94298**
Stddev	.00046	.00095	.029	.046	.00263
%RSD	.04635	.09560	.05793	.09485	.27872
#1	.98570	.98953	49.916	48.858	.94112
#2	.98635	.99087	49.875	48.924	.94484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 16:07:46 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.927**	**1.0060**	**.98245**	**48.286**	**.99202**
Stddev	.039	.0010	.00093	.040	.00167
%RSD	.07811	.09473	.09472	.08313	.16803
#1	49.955	1.0067	.98311	48.258	.99320
#2	49.900	1.0053	.98179	48.315	.99084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.50**	**.99107**	**24.852**	**.98327**	**.99158**
Stddev	.01	.00171	.014	.00305	.00592
%RSD	.0238	.17290	.05468	.31003	.59660
#1	37.49	.99228	24.861	.98542	.99576
#2	37.51	.98986	24.842	.98111	.98739
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7987**	**.98964**	**.98301**	**1.491**	**.98427**
Stddev	.0190	.00263	.00048	.006	.00129
%RSD	.19374	.26621	.04898	.4109	.13126
#1	9.8121	.99150	.98335	1.496	.98518
#2	9.7853	.98777	.98267	1.487	.98336
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 16:07:46 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99850**	**.99623**	**1.0245**	**1.495**
Stddev	.00001	.00021	.0016	.003
%RSD	.00136	.02140	.15794	.1766
#1	.99849	.99638	1.0256	1.493
#2	.99851	.99608	1.0233	1.496
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3455.2**	**3389.5**	**67681.**	**6017.6**
Stddev	.5	.1	47.	6.7
%RSD	.01432	.00195	.06935	.11181
#1	3454.8	3389.5	67714.	6012.8
#2	3455.5	3389.4	67647.	6022.3

Sample Name: CCB-7026764 Acquired: 6/9/2022 16:11:26 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00086**	**-.03818**	**.00113**	**-.00005**	**.00004**
Stddev	.00005	.00796	.00181	.00017	.00000
%RSD	6.2897	20.860	159.58	371.04	4.4251
#1	-.00082	-.04381	-.00015	.00008	.00004
#2	-.00089	-.03255	.00241	-.00017	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00043**	**.00016**	**-.0318**	**-.00010**
Stddev	.00004	.00110	.00005	.0083	.00006
%RSD	351.86	257.21	32.417	26.27	56.215
#1	.00002	.00035	.00019	-.0259	-.00006
#2	-.00004	-.00120	.00012	-.0377	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00053**	**.00826**	**.01483**	**.00048**
Stddev	.00026	.00006	.00034	.01236	.00115
%RSD	144.05	11.542	4.1178	83.368	239.04
#1	-.00036	.00049	.00850	.02357	.00130
#2	.00000	.00058	.00802	.00609	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 16:11:26 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.00006**	**.00281**	**-.01079**	**-.00004**
Stddev	.00060	.00001	.00046	.00236	.00009
%RSD	84.862	19.433	16.235	21.925	233.26
#1	.00028	.00007	.00249	-.01246	.00002
#2	.00114	.00005	.00313	-.00911	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00035**	**-.00916**	**-.00037**	**.00498**
Stddev	.00	.00049	.00074	.00069	.00151
%RSD	.0063	140.29	8.0620	185.31	30.359
#1	25.00	-.00000	-.00969	-.00086	.00605
#2	25.00	-.00070	-.00864	.00011	.00391
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00116**	**.00007**	**.00000**	**.9993**	**.00018**
Stddev	.00872	.00086	.00005	.0022	.00021
%RSD	752.68	1180.5	1101.2	.2218	117.07
#1	.00732	.00068	-.00003	.9977	.00003
#2	-.00501	-.00054	.00004	1.001	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 16:11:26 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00136**	**-.00024**	**-.00012**	**.9991**
Stddev	.00083	.00026	.00059	.0004
%RSD	60.890	108.25	488.59	.0363
#1	.00077	-.00006	-.00053	.9989
#2	.00194	-.00042	.00029	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4000.4**	**3531.6**	**72092.**	**6025.8**
Stddev	4.2	5.5	3.	9.6
%RSD	.10505	.15563	.00430	.15911
#1	3997.4	3527.8	72095.	6032.6
#2	4003.3	3535.5	72090.	6019.0

Sample Name: CCVL-7019501 Acquired: 6/9/2022 16:15:20 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00521**	**.17568**	**.01356**	**.01899**	**.00209**
Stddev	.00024	.00801	.00043	.00044	.00001
%RSD	4.6692	4.5618	3.1463	2.3294	.53637
#1	.00504	.18135	.01326	.01868	.00209
#2	.00538	.17002	.01386	.01931	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00196**	**.49214**	**.00194**	**-.0063**	**.00359**
Stddev	.00002	.00070	.00001	.0157	.00011
%RSD	1.1366	.14186	.67366	250.4	3.1781
#1	.00194	.49263	.00195	-.0174	.00351
#2	.00197	.49165	.00193	.0048	.00367
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00362**	**.01041**	**.04952**	**.47561**	**.02773**
Stddev	.00022	.00031	.00006	.02077	.00166
%RSD	6.0189	2.9745	.11623	4.3679	5.9778
#1	.00378	.01063	.04948	.49030	.02655
#2	.00347	.01019	.04956	.46092	.02890
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7019501 Acquired: 6/9/2022 16:15:20 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19255**	**.00294**	**.00950**	**.92703**	**.00966**
Stddev	.00265	.00006	.00005	.01140	.00014
%RSD	1.3787	2.0680	.49743	1.2292	1.4275
#1	.19443	.00298	.00947	.93509	.00956
#2	.19067	.00290	.00954	.91898	.00976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00955**	**.17784**	**.01863**	**.02121**
Stddev	.00	.00014	.00058	.00007	.00066
%RSD	.0001	1.5062	.32406	.34969	3.1239
#1	25.00	.00945	.17825	.01868	.02074
#2	25.00	.00965	.17744	.01858	.02167
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45329**	**.00852**	**.00501**	F **1.002**	**.00422**
Stddev	.00965	.00019	.00012	.005	.00029
%RSD	2.1292	2.2649	2.3455	.4980	6.9076
#1	.46011	.00838	.00509	1.006	.00442
#2	.44646	.00866	.00492	.9989	.00401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7019501 Acquired: 6/9/2022 16:15:20 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01993**	**.00479**	**.00716**	F **.9991**
Stddev	.00132	.00025	.00014	.0002
%RSD	6.6434	5.1350	1.9411	.0179
#1	.02086	.00497	.00706	.9993
#2	.01899	.00462	.00726	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3965.2**	**3523.0**	**71722.**	**6075.4**
Stddev	.2	.8	129.	10.1
%RSD	.00451	.02308	.17965	.16580
#1	3965.3	3522.4	71630.	6068.3
#2	3965.1	3523.5	71813.	6082.6

Sample Name: MB 480-628589/1-A Acquired: 6/9/2022 16:19:12 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**-.03804**	**-.00271**	**.00036**	**.00005**
Stddev	.00029	.02077	.00047	.00030	.00003
%RSD	79.211	54.608	17.454	83.683	55.533
#1	-.00057	-.05273	-.00237	.00057	.00003
#2	-.00016	-.02335	-.00304	.00015	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.02524**	**.00002**	**.0137**	**-.00009**
Stddev	.00003	.00059	.00006	.0090	.00007
%RSD	616.86	2.3340	237.97	65.66	78.044
#1	.00002	.02565	-.00002	.0073	-.00013
#2	-.00002	.02482	.00006	.0201	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00038**	**.00278**	**.05047**	**-.00047**
Stddev	.00037	.00000	.00070	.02212	.00065
%RSD	141.17	.18244	25.266	43.817	139.93
#1	-.00000	.00038	.00228	.06611	-.00000
#2	-.00053	.00038	.00328	.03483	-.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-628589/1-A Acquired: 6/9/2022 16:19:12 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00176**	**-.00018**	**-.00103**	**.02522**	**.00023**
Stddev	.00569	.00001	.00024	.00524	.00011
%RSD	323.75	7.5467	22.909	20.796	46.524
#1	-.00227	-.00017	-.00120	.02893	.00030
#2	.00578	-.00019	-.00087	.02151	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00030**	**.00679**	**-.00034**	**-.00394**
Stddev	.00	.00026	.00383	.00087	.00064
%RSD	.0070	87.538	56.328	257.36	16.125
#1	25.00	-.00049	.00950	-.00095	-.00349
#2	25.00	-.00011	.00409	.00028	-.00439
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02651**	**-.00092**	**.00005**	**.9988**	**-.00050**
Stddev	.00508	.00019	.00001	.0032	.00010
%RSD	19.155	20.171	14.105	.3196	19.799
#1	-.03011	-.00079	.00005	.9966	-.00057
#2	-.02292	-.00105	.00004	1.001	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-628589/1-A Acquired: 6/9/2022 16:19:12 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00180**	**-.00007**	**-.00130**	**.9992**
Stddev	.00119	.00026	.00021	.0005
%RSD	66.012	392.19	16.176	.0455
#1	.00096	-.00025	-.00145	.9988
#2	.00264	.00012	-.00115	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3979.8**	**3513.8**	**71583.**	**6060.0**
Stddev	2.7	2.3	170.	25.0
%RSD	.06741	.06640	.23720	.41190
#1	3977.9	3512.2	71703.	6077.7
#2	3981.7	3515.5	71463.	6042.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.802%	99.497%	99.221%	98.893%
Range				

Sample Name: LCS 480-628589/2-A Acquired: 6/9/2022 16:23:05 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04727**	**9.9455**	**.20178**	**.19726**	**.20581**
Stddev	.00006	.0376	.00015	.00068	.00012
%RSD	.11670	.37771	.07431	.34423	.05922
#1	.04731	9.9721	.20168	.19774	.20590
#2	.04723	9.9190	.20189	.19678	.20573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20626**	**10.053**	**.19636**	**-.0339**	**.19603**
Stddev	.00065	.027	.00033	.0034	.00017
%RSD	.31364	.26872	.16588	10.14	.08580
#1	.20672	10.072	.19613	-.0364	.19615
#2	.20580	10.034	.19659	-.0315	.19591
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20369**	**.20370**	**10.146**	**9.8077**	**.19321**
Stddev	.00050	.00078	.045	.0545	.00099
%RSD	.24321	.38256	.44576	.55536	.51066
#1	.20404	.20425	10.178	9.8462	.19391
#2	.20334	.20314	10.114	9.7692	.19251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-628589/2-A Acquired: 6/9/2022 16:23:05 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.332**	**.20963**	**.20326**	**9.6798**	**.19426**
Stddev	.008	.00017	.00039	.0120	.00005
%RSD	.07751	.07966	.19045	.12395	.02768
#1	10.338	.20975	.20353	9.6883	.19422
#2	10.327	.20951	.20299	9.6713	.19430
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.19822**	**9.6104**	**.21123**	**.19332**
Stddev	.00	.00058	.0007	.00038	.00457
%RSD	.0003	.29016	.00731	.18177	2.3635
#1	25.00	.19781	9.6109	.21096	.19009
#2	25.00	.19862	9.6099	.21150	.19655
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5098**	F **.23527**	**.20309**	**1.001**	**.20082**
Stddev	.0181	.00060	.00007	.000	.00021
%RSD	.19005	.25444	.03484	.0013	.10313
#1	9.4970	.23570	.20304	1.001	.20097
#2	9.5226	.23485	.20314	1.001	.20068
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: LCS 480-628589/2-A Acquired: 6/9/2022 16:23:05 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20640**	**.19831**	**.19625**	**1.001**
Stddev	.00052	.00015	.00064	.001
%RSD	.25317	.07657	.32727	.0687
#1	.20603	.19842	.19671	1.001
#2	.20677	.19821	.19580	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3769.4**	**3473.0**	**70514.**	**6079.4**
Stddev	6.1	3.4	194.	10.6
%RSD	.16282	.09883	.27444	.17480
#1	3765.0	3470.5	70377.	6071.9
#2	3773.7	3475.4	70650.	6086.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.525%	98.339%	97.738%	99.209%
Range				

Sample Name: 480-198482-E-1-B Acquired: 6/9/2022 16:26:46 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**6.0170**	**.00330**	**.75165**	**.03966**
Stddev	.00025	.0113	.00082	.00020	.00018
%RSD	58.469	.18842	24.800	.02678	.46352
#1	-.00025	6.0090	.00272	.75180	.03953
#2	-.00061	6.0250	.00387	.75151	.03979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**92.040**	**.00012**	**-.0356**	**.00265**
Stddev	.00003	.311	.00003	.0142	.00025
%RSD	9.4907	.33782	24.506	39.82	9.3736
#1	.00029	91.820	.00010	-.0256	.00283
#2	.00025	92.259	.00014	-.0456	.00248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00770**	**.00390**	**5.3379**	**4.3549**	**.01793**
Stddev	.00033	.00011	.0103	.0192	.00107
%RSD	4.3057	2.8596	.19271	.44084	5.9926
#1	.00794	.00382	5.3306	4.3684	.01869
#2	.00747	.00398	5.3451	4.3413	.01717
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198482-E-1-B Acquired: 6/9/2022 16:26:46 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.151**	**.14602**	**.29941**	**87.065**	**.00670**
Stddev	.068	.00009	.00115	.334	.00040
%RSD	.17948	.06478	.38330	.38353	5.9738
#1	38.103	.14596	.30022	86.829	.00699
#2	38.200	.14609	.29859	87.302	.00642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00610**	F **127.23**	**-.00332**	**-.00451**
Stddev	.00	.00064	.18	.00236	.00038
%RSD	.0015	10.406	.14391	70.887	8.5091
#1	25.04	.00565	127.10	-.00166	-.00478
#2	25.04	.00655	127.36	-.00499	-.00424
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.432**	**-.00084**	**1.6866**	**1.002**	**.18732**
Stddev	.065	.00102	.0028	.002	.01962
%RSD	.35007	121.06	.16577	.1754	10.475
#1	18.477	-.00156	1.6847	1.003	.17345
#2	18.386	-.00012	1.6886	1.000	.20120
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198482-E-1-B Acquired: 6/9/2022 16:26:46 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00212**	**.01015**	**.00881**	**1.003**
Stddev	.00170	.00005	.00036	.001
%RSD	80.137	.48111	4.0520	.0495
#1	.00092	.01018	.00856	1.003
#2	.00332	.01011	.00907	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3460.7**	**3319.7**	**67298.**	**6015.7**
Stddev	.6	3.4	9.	20.7
%RSD	.01622	.10177	.01406	.34408
#1	3460.3	3322.1	67304.	6030.3
#2	3461.1	3317.3	67291.	6001.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.785%	94.000%	93.281%	98.169%
Range				

Sample Name: 198437-3 sol Acquired: 6/9/2022 16:30:32 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00114**	**-.02528**	**.07043**	**.04332**	**.06520**
Stddev	.00021	.01096	.00051	.00014	.00012
%RSD	18.077	43.345	.71768	.33198	.19014
#1	-.00099	-.01754	.07079	.04342	.06529
#2	-.00129	-.03303	.07007	.04321	.06512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**95.779**	**.00004**	**-.0619**	**.00118**
Stddev	.00012	.390	.00004	.0217	.00004
%RSD	204.82	.40681	97.879	35.10	3.2333
#1	-.00003	96.055	.00008	-.0465	.00121
#2	.00015	95.504	.00001	-.0772	.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**-.00100**	**21.036**	**6.9702**	**.02227**
Stddev	.00010	.00066	.084	.0284	.00110
%RSD	13.410	66.495	.39739	.40702	4.9555
#1	-.00069	-.00146	21.096	6.9903	.02149
#2	-.00083	-.00053	20.977	6.9502	.02305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 198437-3 sol Acquired: 6/9/2022 16:30:32 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.935**	**4.9722**	**.00060**	**103.02**	**.00293**
Stddev	.069	.0064	.00007	.75	.00002
%RSD	.28860	.12912	11.361	.72824	.80779
#1	23.984	4.9767	.00055	103.56	.00291
#2	23.886	4.9676	.00065	102.49	.00294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.00438**	**6.6366**	**-.00069**	**-.01066**
Stddev	.00	.00032	.0096	.00040	.00273
%RSD	.0066	7.2664	.14441	57.590	25.638
#1	25.05	.00461	6.6298	-.00041	-.00873
#2	25.05	.00416	6.6434	-.00097	-.01260
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.543**	**-.00083**	**.68408**	**1.007**	**-.00089**
Stddev	.013	.00021	.00217	.005	.00001
%RSD	.10491	25.158	.31657	.5143	1.6574
#1	12.552	-.00098	.68561	1.004	-.00090
#2	12.533	-.00068	.68254	1.011	-.00088
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 198437-3 sol Acquired: 6/9/2022 16:30:32 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00259**	**.00017**	**-.00277**	**.9989**
Stddev	.00107	.00023	.00063	.0001
%RSD	41.307	138.43	22.703	.0051
#1	.00184	.00033	-.00232	.9989
#2	.00335	.00000	-.00321	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3534.6**	**3393.3**	**68239.**	**6119.9**
Stddev	6.1	3.4	69.	19.7
%RSD	.17168	.09914	.10061	.32236
#1	3538.9	3395.6	68191.	6105.9
#2	3530.3	3390.9	68288.	6133.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.637%	96.083%	94.586%	99.870%
Range				

Sample Name: 198437-6 sol Acquired: 6/9/2022 16:34:27 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**-.02501**	**.02054**	**.00992**	**.00350**
Stddev	.00032	.00720	.00055	.00042	.00001
%RSD	192.94	28.799	2.6957	4.2070	.40683
#1	-.00039	-.01992	.02094	.01022	.00349
#2	.00006	-.03011	.02015	.00963	.00351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**15.983**	**-.00015**	**-.0285**	**-.00002**
Stddev	.00005	.098	.00005	.0060	.00002
%RSD	143.71	.61607	32.592	21.26	69.579
#1	-.00007	16.052	-.00012	-.0242	-.00001
#2	.00000	15.913	-.00019	-.0327	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**-.00022**	**.21532**	**1.4886**	**.00074**
Stddev	.00004	.00022	.00087	.0168	.00046
%RSD	5.4836	97.022	.40607	1.1262	62.746
#1	-.00071	-.00007	.21594	1.5005	.00041
#2	-.00066	-.00038	.21470	1.4768	.00107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 198437-6 sol Acquired: 6/9/2022 16:34:27 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.0475**	**.12601**	**.00372**	**19.517**	**.00050**
Stddev	.0073	.00003	.00028	.090	.00013
%RSD	.23993	.02176	7.5096	.46093	25.293
#1	3.0527	.12603	.00391	19.580	.00041
#2	3.0423	.12599	.00352	19.453	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.00220**	**6.1031**	**-.00151**	**-.00643**
Stddev	.00	.00087	.0210	.00184	.00133
%RSD	.0010	39.591	.34357	122.16	20.704
#1	25.05	.00158	6.0883	-.00021	-.00737
#2	25.05	.00282	6.1180	-.00281	-.00549
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.3495**	**-.00131**	**.06105**	**.9968**	**-.00050**
Stddev	.0232	.00037	.00038	.0058	.00027
%RSD	.43284	28.242	.62235	.5831	54.087
#1	5.3659	-.00105	.06132	1.001	-.00069
#2	5.3332	-.00157	.06078	.9927	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 198437-6 sol Acquired: 6/9/2022 16:34:27 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00264**	**-.00042**	**-.00263**	**.9993**
Stddev	.00002	.00017	.00093	.0003
%RSD	.62516	39.470	35.477	.0267
#1	.00263	-.00053	-.00328	.9991
#2	.00265	-.00030	-.00197	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3915.7**	**3542.7**	**71376.**	**6142.6**
Stddev	3.0	5.2	118.	38.5
%RSD	.07686	.14553	.16585	.62716
#1	3917.8	3546.3	71460.	6115.3
#2	3913.6	3539.0	71292.	6169.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.195%	100.31%	98.934%	100.24%
Range				

Sample Name: MB 480-628736/1-A Acquired: 6/9/2022 16:38:17 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**-.01885**	**-.00064**	**.00078**	**.00040**
Stddev	.00010	.00011	.00056	.00043	.00001
%RSD	19.214	.56544	88.364	55.354	2.1121
#1	-.00046	-.01893	-.00024	.00108	.00040
#2	-.00061	-.01878	-.00103	.00047	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.02570**	**.00003**	**-.0094**	**-.00005**
Stddev	.00006	.00046	.00005	.0451	.00009
%RSD	158.37	1.7826	179.56	479.5	197.45
#1	-.00000	.02603	.00007	.0225	.00002
#2	.00008	.02538	-.00001	-.0413	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.00032**	**.00319**	**-.01189**	**-.00038**
Stddev	.00068	.00019	.00132	.01323	.00004
%RSD	170.78	58.319	41.290	111.23	10.581
#1	-.00087	.00019	.00226	-.00254	-.00035
#2	.00008	.00046	.00412	-.02124	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-628736/1-A Acquired: 6/9/2022 16:38:17 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00277**	**.00033**	**-.00004**	**.05923**	**.00016**
Stddev	.00180	.00004	.00007	.00251	.00012
%RSD	65.154	10.934	208.04	4.2412	72.941
#1	.00404	.00030	-.00009	.06101	.00008
#2	.00149	.00035	.00002	.05746	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00001**	**.02992**	**-.00099**	**-.00208**
Stddev	.00	.00008	.00480	.00049	.00128
%RSD	.0036	600.06	16.037	49.058	61.619
#1	25.00	-.00007	.02653	-.00065	-.00298
#2	25.00	.00004	.03332	-.00134	-.00117
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00579**	**-.00082**	**.00014**	**1.001**	**-.00048**
Stddev	.00109	.00044	.00002	.001	.00016
%RSD	18.794	53.128	15.678	.0809	34.257
#1	-.00655	-.00051	.00012	1.001	-.00036
#2	-.00502	-.00113	.00015	1.000	-.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-628736/1-A Acquired: 6/9/2022 16:38:17 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00126**	**-.00052**	**-.00146**	**.9994**
Stddev	.00098	.00040	.00007	.0004
%RSD	77.980	76.135	4.9969	.0424
#1	.00195	-.00080	-.00151	.9997
#2	.00056	-.00024	-.00140	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3940.1**	**3481.8**	**71022.**	**6058.6**
Stddev	2.2	4.4	236.	33.5
%RSD	.05532	.12547	.33183	.55311
#1	3938.6	3478.8	70855.	6034.9
#2	3941.7	3484.9	71189.	6082.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.808%	98.591%	98.443%	98.869%
Range				

Sample Name: LCS 480-628736/2-A Acquired: 6/9/2022 16:42:10 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04690**	**9.6537**	**.19223**	**.19387**	**.20285**
Stddev	.00056	.0159	.00219	.00042	.00006
%RSD	1.1926	.16454	1.1392	.21574	.02995
#1	.04730	9.6425	.19378	.19417	.20289
#2	.04651	9.6649	.19068	.19357	.20281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19719**	**9.6848**	**.19026**	**-.0408**	**.19001**
Stddev	.00005	.0034	.00025	.0562	.00007
%RSD	.02447	.03460	.12990	137.7	.03748
#1	.19716	9.6824	.19008	-.0011	.18996
#2	.19722	9.6872	.19043	-.0805	.19006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19322**	**.19660**	**9.7680**	**9.5682**	**.18648**
Stddev	.00058	.00056	.0123	.0126	.00150
%RSD	.30243	.28685	.12598	.13137	.80498
#1	.19280	.19620	9.7593	9.5771	.18542
#2	.19363	.19700	9.7767	9.5593	.18754
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-628736/2-A Acquired: 6/9/2022 16:42:10 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9491**	**.19743**	**.19546**	**9.4028**	**.18677**
Stddev	.0075	.00061	.00036	.0089	.00037
%RSD	.07513	.31074	.18245	.09446	.19947
#1	9.9438	.19700	.19571	9.4091	.18704
#2	9.9543	.19787	.19520	9.3966	.18651
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.18962**	**9.3235**	**.19782**	**.18285**
Stddev	.00	.00012	.0160	.00120	.00009
%RSD	.0014	.06588	.17177	.60765	.04903
#1	25.00	.18954	9.3349	.19697	.18279
#2	25.00	.18971	9.3122	.19867	.18291
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3035**	**.22972**	**.19518**	**1.002**	**.19415**
Stddev	.0067	.00003	.00010	.006	.00060
%RSD	.07200	.01495	.05173	.5604	.31080
#1	9.3083	.22974	.19525	1.006	.19458
#2	9.2988	.22969	.19511	.9978	.19372
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-628736/2-A Acquired: 6/9/2022 16:42:10 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19524**	**.19136**	**.19210**	**.9996**
Stddev	.00180	.00044	.00168	.0002
%RSD	.92110	.22874	.87570	.0204
#1	.19651	.19105	.19329	.9995
#2	.19397	.19167	.19091	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3761.4**	**3465.3**	**70152.**	**6070.1**
Stddev	5.1	2.5	139.	12.7
%RSD	.13656	.07249	.19843	.20960
#1	3757.7	3463.5	70250.	6061.1
#2	3765.0	3467.1	70053.	6079.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.324%	98.123%	97.236%	99.057%
Range				

Sample Name: 480-198620-D-1-A Acquired: 6/9/2022 16:45:51 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00129**	**-.00481**	**-.00054**	**.09059**	**.10829**
Stddev	.00013	.00553	.00148	.00008	.00015
%RSD	10.307	114.99	271.87	.08301	.13695
#1	-.00138	-.00090	.00050	.09065	.10840
#2	-.00119	-.00872	-.00159	.09054	.10819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**134.18**	**-.00005**	**-.0509**	**.00062**
Stddev	.00002	.25	.00011	.0145	.00005
%RSD	784.32	.18357	199.84	28.44	7.4580
#1	-.00002	134.00	-.00013	-.0611	.00059
#2	.00001	134.35	.00002	-.0406	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00210**	**.85871**	**3.5259**	**.08470**
Stddev	.00037	.00028	.00593	.0384	.00089
%RSD	114.53	13.565	.69056	1.0882	1.0535
#1	-.00059	.00230	.85452	3.4988	.08533
#2	-.00006	.00190	.86290	3.5530	.08407
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198620-D-1-A Acquired: 6/9/2022 16:45:51 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.537**	**.30719**	**.00499**	**53.876**	**.00185**
Stddev	.065	.00056	.00034	.152	.00009
%RSD	.18892	.18358	6.7559	.28244	4.6588
#1	34.490	.30679	.00475	53.768	.00191
#2	34.583	.30759	.00523	53.983	.00179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.35**	**.00211**	**36.936**	**-.00219**	**-.00733**
Stddev	.00	.00240	.034	.00018	.00357
%RSD	.0054	113.91	.09179	8.4058	48.757
#1	25.35	.00381	36.912	-.00206	-.00985
#2	25.35	.00041	36.960	-.00232	-.00480
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.8803**	**-.00114**	**2.9259**	**.9922**	**.00030**
Stddev	.0241	.00017	.0072	.0055	.00007
%RSD	.41008	14.978	.24430	.5527	24.097
#1	5.8633	-.00126	2.9208	.9960	.00025
#2	5.8974	-.00102	2.9309	.9883	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198620-D-1-A Acquired: 6/9/2022 16:45:51 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00126**	**.00005**	**.00473**	**.9995**
Stddev	.00036	.00012	.00016	.0003
%RSD	28.988	266.93	3.4481	.0259
#1	.00151	-.00004	.00484	.9993
#2	.00100	.00013	.00461	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3519.5**	**3347.9**	**68380.**	**6027.4**
Stddev	.5	.1	77.	3.7
%RSD	.01316	.00236	.11246	.06107
#1	3519.2	3347.9	68434.	6024.7
#2	3519.8	3348.0	68325.	6030.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.259%	94.799%	94.781%	98.360%
Range				

Sample Name: 480-198620-D-1-Asd@5 Acquired: 6/9/2022 16:49:39 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**-.01475**	**-.00045**	**.01797**	**.02296**
Stddev	.00037	.01075	.00051	.00016	.00004
%RSD	44.040	72.903	112.93	.90481	.17606
#1	-.00057	-.02235	-.00082	.01809	.02298
#2	-.00109	-.00715	-.00009	.01786	.02293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**28.243**	**.00012**	**-.0227**	**.00006**
Stddev	.00004	.024	.00001	.0326	.00007
%RSD	334.46	.08415	5.8323	143.2	112.52
#1	-.00004	28.226	.00012	.0003	.00011
#2	.00002	28.259	.00011	-.0458	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.00077**	**.18256**	**.71135**	**.01686**
Stddev	.00032	.00040	.00051	.00038	.00245
%RSD	84.844	52.630	.27831	.05339	14.556
#1	-.00015	.00105	.18220	.71161	.01859
#2	-.00061	.00048	.18292	.71108	.01512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198620-D-1-Asd@5 Acquired: 6/9/2022 16:49:39 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.3899**	**.06624**	**-.00002**	**10.941**	**.00021**
Stddev	.0207	.00016	.00021	.012	.00024
%RSD	.28015	.24782	1076.0	.11381	114.52
#1	7.4045	.06635	-.00017	10.932	.00004
#2	7.3753	.06612	.00013	10.949	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.07**	**-.00075**	**7.4659**	**-.00023**	**-.00537**
Stddev	.00	.00068	.0017	.00145	.00086
%RSD	.0081	91.182	.02204	633.48	15.999
#1	25.07	-.00027	7.4671	.00080	-.00476
#2	25.07	-.00123	7.4648	-.00126	-.00598
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1958**	**-.00110**	**.60556**	**.9986**	**-.00039**
Stddev	.0067	.00019	.00023	.0057	.00006
%RSD	.55910	16.956	.03861	.5725	16.375
#1	1.2005	-.00123	.60539	.9946	-.00044
#2	1.1911	-.00096	.60572	1.003	-.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198620-D-1-Asd@5 Acquired: 6/9/2022 16:49:39 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00131**	**-.00021**	**-.00205**	**.9993**
Stddev	.00122	.00028	.00003	.0011
%RSD	93.356	133.90	1.3077	.1088
#1	.00217	-.00041	-.00207	.9986
#2	.00044	-.00001	-.00204	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3746.5**	**3414.5**	**69010.**	**5998.8**
Stddev	3.5	2.1	24.	2.7
%RSD	.09224	.06222	.03438	.04491
#1	3749.0	3413.0	68993.	5996.9
#2	3744.1	3416.0	69027.	6000.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.952%	96.684%	95.654%	97.894%
Range				

Sample Name: CCV-7024752 Acquired: 6/9/2022 16:53:30 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0334**	**51.244**	**1.0361**	**1.0493**	**1.0107**
Stddev	.0011	.411	.0024	.0013	.0064
%RSD	.10397	.80167	.22650	.12004	.63619
#1	1.0342	51.535	1.0344	1.0502	1.0152
#2	1.0326	50.954	1.0378	1.0484	1.0061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0195**	**51.737**	**1.0333**	**.9929**	**1.0245**
Stddev	.0061	.424	.0001	.0177	.0006
%RSD	.59402	.82016	.01354	1.782	.05968
#1	1.0238	52.037	1.0332	1.005	1.0240
#2	1.0152	51.437	1.0334	.9804	1.0249
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0402**	**1.0382**	**52.348**	**51.285**	**.99733**
Stddev	.0001	.0007	.483	.386	.00378
%RSD	.01402	.06959	.92203	.75318	.37932
#1	1.0400	1.0387	52.689	51.559	1.0000
#2	1.0403	1.0376	52.007	51.012	.99465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 16:53:30 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.479**	**1.0522**	**1.0318**	**50.747**	**1.0339**
Stddev	.086	.0014	.0016	.333	.0009
%RSD	.16325	.12895	.15385	.65709	.09008
#1	52.539	1.0532	1.0329	50.983	1.0333
#2	52.418	1.0513	1.0307	50.512	1.0346
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.08**	**1.0339**	**26.023**	**1.0385**	**1.0302**
Stddev	.01	.0019	.000	.0020	.0068
%RSD	.0179	.18218	.00091	.19434	.66209
#1	38.08	1.0326	26.023	1.0399	1.0351
#2	38.08	1.0353	26.023	1.0370	1.0254
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.281**	**1.0301**	**1.0298**	**1.519**	**1.0359**
Stddev	.006	.0008	.0077	.002	.0010
%RSD	.05847	.07377	.74552	.1465	.09407
#1	10.277	1.0306	1.0353	1.520	1.0353
#2	10.286	1.0296	1.0244	1.517	1.0366
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 16:53:30 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0420**	**1.0460**	**1.0715**	**1.519**
Stddev	.0016	.0005	.0001	.006
%RSD	.14936	.04795	.00852	.3738
#1	1.0409	1.0457	1.0715	1.523
#2	1.0431	1.0464	1.0716	1.515
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3339.6**	**3266.0**	**65095.**	**5755.0**
Stddev	1.3	1.3	8.	37.7
%RSD	.03786	.03858	.01264	.65424
#1	3340.5	3266.9	65089.	5728.4
#2	3338.7	3265.1	65101.	5781.6

Sample Name: CCB-7026764 Acquired: 6/9/2022 16:57:10 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**-.02544**	**.00040**	**.00024**	**.00004**
Stddev	.00039	.02298	.00153	.00020	.00001
%RSD	74.354	90.338	380.21	85.278	38.160
#1	-.00079	-.00919	-.00068	.00009	.00005
#2	-.00025	-.04169	.00148	.00038	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00141**	**.00011**	**-.0303**	**-.00011**
Stddev	.00006	.00070	.00009	.0455	.00002
%RSD	230.01	49.686	86.413	150.1	17.499
#1	-.00002	-.00191	.00004	-.0624	-.00012
#2	.00007	-.00092	.00017	.0018	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00023**	**.00897**	**.00973**	**.00086**
Stddev	.00000	.00037	.00084	.01832	.00109
%RSD	1.1442	159.24	9.3553	188.37	127.58
#1	-.00031	.00049	.00956	.02268	.00008
#2	-.00031	-.00003	.00837	-.00323	.00163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 16:57:10 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00194**	**.00005**	**.00265**	**-.01693**	**-.00002**
Stddev	.00028	.00004	.00053	.00103	.00009
%RSD	14.430	74.651	19.972	6.1041	530.89
#1	.00174	.00008	.00228	-.01620	.00005
#2	.00214	.00002	.00303	-.01766	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00054**	**-.00840**	**-.00040**	**.00506**
Stddev	.00	.00093	.00002	.00060	.00032
%RSD	.0008	172.70	.29702	151.95	6.4062
#1	25.00	-.00120	-.00838	-.00082	.00483
#2	25.00	.00012	-.00841	.00003	.00529
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01229**	**-.00003**	**.00008**	**.9998**	**.00022**
Stddev	.00689	.00002	.00003	.0014	.00008
%RSD	56.064	81.340	30.551	.1392	34.773
#1	-.00742	-.00001	.00006	1.001	.00027
#2	-.01717	-.00004	.00010	.9988	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 16:57:10 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00160**	**-.00028**	**.00034**	**.9995**
Stddev	.00023	.00037	.00046	.0001
%RSD	14.565	133.78	134.48	.0124
#1	.00176	-.00002	.00067	.9996
#2	.00143	-.00054	.00002	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3999.0**	**3530.7**	**72227.**	**6037.3**
Stddev	4.1	4.7	48.	1.5
%RSD	.10253	.13219	.06584	.02481
#1	3996.1	3527.4	72193.	6038.3
#2	4001.9	3534.0	72261.	6036.2

Sample Name: CCVL-7019501 Acquired: 6/9/2022 17:01:04 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00526**	**.17342**	**.01227**	**.01856**	**.00207**
Stddev	.00063	.00310	.00225	.00018	.00001
%RSD	12.002	1.7878	18.384	.98391	.45539
#1	.00571	.17123	.01067	.01844	.00207
#2	.00482	.17561	.01386	.01869	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00197**	**.49098**	**.00188**	**-.0181**	**.00376**
Stddev	.00002	.00778	.00002	.0007	.00015
%RSD	1.0346	1.5846	.86332	4.096	4.0878
#1	.00195	.49648	.00187	-.0186	.00365
#2	.00198	.48548	.00189	-.0176	.00386
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00343**	**.01101**	**.04918**	**.49058**	**.02687**
Stddev	.00006	.00009	.00179	.01179	.00084
%RSD	1.7458	.81197	3.6301	2.4037	3.1302
#1	.00338	.01095	.04792	.49891	.02747
#2	.00347	.01108	.05044	.48224	.02628
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7019501 Acquired: 6/9/2022 17:01:04 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19352**	**.00293**	**.00934**	**.92906**	**.00920**
Stddev	.00315	.00006	.00004	.00332	.00000
%RSD	1.6281	2.0085	.40513	.35767	.03860
#1	.19574	.00297	.00932	.93141	.00921
#2	.19129	.00289	.00937	.92671	.00920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00984**	**.17456**	**.01916**	W **.01591**
Stddev	.00	.00039	.00081	.00092	.00335
%RSD	.0005	3.9481	.46504	4.7759	21.055
#1	25.00	.00956	.17514	.01852	.01828
#2	25.00	.01011	.17399	.01981	.01354
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value	.0060				.02500
Range	50.00%				-30.000%

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.43438**	**.00825**	**.00491**	F **.9978**	**.00458**
Stddev	.02436	.00077	.00009	.0007	.00023
%RSD	5.6089	9.3379	1.8138	.0658	5.1170
#1	.45160	.00879	.00498	.9983	.00441
#2	.41715	.00770	.00485	.9973	.00474
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7019501 Acquired: 6/9/2022 17:01:04 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02112**	**.00466**	**.00727**	F **.9992**
Stddev	.00073	.00000	.00004	.0005
%RSD	3.4385	.06876	.50595	.0507
#1	.02061	.00465	.00725	.9995
#2	.02164	.00466	.00730	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3978.1**	**3532.2**	**71822.**	**6040.4**
Stddev	3.7	4.0	21.	18.6
%RSD	.09300	.11455	.02947	.30793
#1	3975.5	3529.4	71807.	6027.3
#2	3980.7	3535.1	71837.	6053.6

Sample Name: 480-198620-D-1-APDS Acquired: 6/9/2022 17:04:57 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05094**	**10.324**	**.21414**	**.29972**	**.31617**
Stddev	.00023	.095	.00027	.00036	.00010
%RSD	.45908	.92075	.12465	.12175	.03244
#1	.05078	10.391	.21433	.29946	.31624
#2	.05111	10.257	.21395	.29998	.31609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21353**	**141.68**	**.20765**	**-.0339**	**.20738**
Stddev	.00115	.64	.00010	.0064	.00012
%RSD	.53649	.45518	.05024	18.88	.05762
#1	.21434	142.14	.20773	-.0294	.20730
#2	.21272	141.23	.20758	-.0384	.20747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20974**	**.21469**	**11.131**	**13.974**	**.28903**
Stddev	.00040	.00006	.059	.082	.00108
%RSD	.19285	.02783	.53389	.58812	.37458
#1	.21003	.21465	11.173	14.032	.28980
#2	.20946	.21473	11.089	13.916	.28827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198620-D-1-APDS Acquired: 6/9/2022 17:04:57 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**44.705**	**.51356**	**.21693**	**64.156**	**.20469**
Stddev	.024	.00020	.00058	.385	.00029
%RSD	.05303	.03983	.26896	.60007	.13939
#1	44.722	.51370	.21735	64.428	.20449
#2	44.688	.51341	.21652	63.883	.20489
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.34**	**.20981**	**46.703**	**.22070**	**.20089**
Stddev	.00	.00032	.013	.00040	.00025
%RSD	.0046	.15457	.02863	.18143	.12481
#1	25.34	.21004	46.694	.22098	.20071
#2	25.34	.20958	46.713	.22041	.20106
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.945**	**.20720**	**3.0823**	**1.003**	**.20923**
Stddev	.128	.00076	.0216	.002	.00024
%RSD	.80568	.36765	.70061	.2228	.11242
#1	16.036	.20666	3.0975	1.005	.20907
#2	15.854	.20773	3.0670	1.001	.20940
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198620-D-1-APDS Acquired: 6/9/2022 17:04:57 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21240**	**.20711**	**.20787**	**1.001**
Stddev	.00129	.00069	.00088	.001
%RSD	.60708	.33302	.42263	.0638
#1	.21332	.20760	.20849	1.002
#2	.21149	.20662	.20725	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3396.7**	**3281.4**	**66847.**	**5923.5**
Stddev	.4	.5	61.	25.8
%RSD	.01246	.01617	.09063	.43488
#1	3396.4	3281.1	66804.	5905.2
#2	3397.0	3281.8	66890.	5941.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.179%	92.916%	92.656%	96.664%
Range				

Sample Name: 480-198620-D-1-B MS Acquired: 6/9/2022 17:08:42 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04972**	**9.9938**	**.20890**	**.30168**	**.32072**
Stddev	.00012	.0243	.00018	.00142	.00046
%RSD	.23236	.24345	.08824	.47195	.14214
#1	.04963	10.011	.20903	.30268	.32040
#2	.04980	9.9765	.20877	.30067	.32104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20602**	**152.68**	**.20204**	**-.0601**	**.20251**
Stddev	.00044	.59	.00033	.0338	.00017
%RSD	.21340	.38592	.16329	56.28	.08310
#1	.20571	152.26	.20227	-.0362	.20263
#2	.20633	153.10	.20181	-.0840	.20239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19847**	**.20781**	**10.935**	**14.077**	**.28957**
Stddev	.00005	.00056	.034	.029	.00123
%RSD	.02568	.27172	.31239	.20782	.42574
#1	.19844	.20821	10.910	14.057	.28869
#2	.19851	.20741	10.959	14.098	.29044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198620-D-1-B MS Acquired: 6/9/2022 17:08:42 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.406**	**.54096**	**.21326**	**68.508**	**.19873**
Stddev	.090	.00008	.00066	.262	.00052
%RSD	.19014	.01565	.31076	.38284	.26318
#1	47.342	.54090	.21373	68.323	.19910
#2	47.470	.54102	.21279	68.693	.19836
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.37**	**.20494**	**49.971**	**.21135**	**.19929**
Stddev	.00	.00175	.050	.00138	.00254
%RSD	.0032	.85439	.09965	.65296	1.2732
#1	25.37	.20618	50.007	.21232	.20109
#2	25.37	.20370	49.936	.21037	.19750
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.104**	**.24855**	**3.3468**	**1.003**	**.20457**
Stddev	.032	.00011	.0052	.004	.00040
%RSD	.19710	.04468	.15626	.3451	.19567
#1	16.082	.24848	3.3431	1.001	.20485
#2	16.127	.24863	3.3505	1.006	.20429
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198620-D-1-B MS Acquired: 6/9/2022 17:08:42 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20598**	**.20022**	**.19863**	**.9992**
Stddev	.00115	.00029	.00097	.0000
%RSD	.55768	.14239	.48672	.0027
#1	.20679	.20002	.19795	.9991
#2	.20516	.20042	.19932	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3400.7**	**3297.9**	**67201.**	**5985.2**
Stddev	1.1	8.0	63.	18.0
%RSD	.03330	.24353	.09420	.30141
#1	3399.9	3292.2	67246.	5997.9
#2	3401.5	3303.5	67157.	5972.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.279%	93.382%	93.147%	97.671%
Range				

Sample Name: 480-198620-D-1-C MSD Acquired: 6/9/2022 17:12:27 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04993**	**9.9999**	**.20873**	**.30092**	**.32039**
Stddev	.00035	.0131	.00154	.00026	.00024
%RSD	.70832	.13061	.73661	.08782	.07460
#1	.04968	10.009	.20982	.30074	.32023
#2	.05018	9.9907	.20764	.30111	.32056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20379**	**151.78**	**.20057**	**-.0548**	**.20078**
Stddev	.00002	1.36	.00011	.0047	.00038
%RSD	.01113	.89559	.05334	8.610	.19174
#1	.20377	152.74	.20049	-.0515	.20106
#2	.20380	150.82	.20064	-.0582	.20051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19961**	**.20920**	**10.856**	**14.033**	**.28826**
Stddev	.00007	.00045	.011	.047	.00143
%RSD	.03275	.21481	.09972	.33298	.49735
#1	.19956	.20888	10.848	14.000	.28928
#2	.19966	.20952	10.864	14.066	.28725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198620-D-1-C MSD Acquired: 6/9/2022 17:12:27 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.871**	**.52979**	**.21147**	**68.217**	**.19868**
Stddev	.009	.00020	.00024	.223	.00058
%RSD	.01833	.03742	.11365	.32627	.29171
#1	47.878	.52993	.21130	68.059	.19909
#2	47.865	.52965	.21164	68.374	.19827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.37**	**.20410**	**49.970**	**.21489**	**.19584**
Stddev	.00	.00213	.007	.00081	.00181
%RSD	.0013	1.0442	.01444	.37498	.92228
#1	25.37	.20259	49.965	.21546	.19456
#2	25.37	.20561	49.976	.21432	.19711
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.088**	**.24725**	**3.3194**	**1.004**	**.20442**
Stddev	.026	.00050	.0057	.004	.00003
%RSD	.16452	.20322	.17249	.4196	.01270
#1	16.070	.24760	3.3234	1.007	.20444
#2	16.107	.24689	3.3153	1.001	.20440
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198620-D-1-C MSD Acquired: 6/9/2022 17:12:27 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20347**	**.20113**	**.19914**	**.9993**
Stddev	.00033	.00028	.00043	.0000
%RSD	.16129	.13823	.21594	.0032
#1	.20323	.20132	.19944	.9993
#2	.20370	.20093	.19883	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3394.5**	**3281.5**	**66652.**	**6002.6**
Stddev	2.8	.8	51.	10.9
%RSD	.08161	.02459	.07702	.18109
#1	3392.6	3282.1	66616.	6010.3
#2	3396.5	3280.9	66689.	5994.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.125%	92.918%	92.386%	97.956%
Range				

Sample Name: 480-198620-B-2-A Acquired: 6/9/2022 17:16:15 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00125**	**-.03002**	**.00024**	**.09519**	**.10805**
Stddev	.00017	.02123	.00033	.00022	.00004
%RSD	13.792	70.702	139.41	.23416	.03722
#1	-.00113	-.04503	.00000	.09504	.10807
#2	-.00137	-.01501	.00048	.09535	.10802
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**142.04**	**.00008**	**-.0730**	**.00011**
Stddev	.00002	.20	.00001	.0073	.00014
%RSD	82.072	.14063	16.825	9.934	129.65
#1	.00004	142.18	.00009	-.0679	.00020
#2	.00001	141.90	.00007	-.0782	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**-.00071**	**.31332**	**3.6843**	**.08844**
Stddev	.00009	.00050	.00244	.0186	.00240
%RSD	27.035	70.206	.77932	.50592	2.7118
#1	-.00028	-.00107	.31159	3.6975	.08675
#2	-.00042	-.00036	.31504	3.6712	.09014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198620-B-2-A Acquired: 6/9/2022 17:16:15 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.112**	**.16777**	**.00414**	**57.439**	**.00103**
Stddev	.007	.00015	.00003	.340	.00052
%RSD	.01876	.09145	.73892	.59144	50.483
#1	37.107	.16766	.00412	57.679	.00067
#2	37.117	.16788	.00416	57.199	.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.25**	**.00120**	**39.152**	**-.00090**	**-.00556**
Stddev	.00	.00058	.031	.00063	.00274
%RSD	.0023	48.649	.08041	69.252	49.272
#1	25.25	.00161	39.174	-.00135	-.00749
#2	25.25	.00079	39.129	-.00046	-.00362
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.2196**	**-.00086**	**3.0556**	**1.002**	**.00052**
Stddev	.0218	.00125	.0065	.005	.00008
%RSD	.35062	145.51	.21350	.5478	16.009
#1	6.2350	-.00174	3.0602	.9981	.00058
#2	6.2041	.00002	3.0510	1.006	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198620-B-2-A Acquired: 6/9/2022 17:16:15 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00217**	**.00021**	**.00996**	**.9993**
Stddev	.00114	.00005	.00063	.0001
%RSD	52.600	22.319	6.3583	.0092
#1	.00136	.00024	.00951	.9993
#2	.00298	.00018	.01041	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3396.7**	**3219.8**	**65481.**	**5823.4**
Stddev	4.5	3.9	78.	6.0
%RSD	.13368	.12118	.11951	.10299
#1	3393.4	3217.0	65426.	5819.1
#2	3399.9	3222.5	65537.	5827.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.179%	91.170%	90.763%	95.031%
Range				

Sample Name: 480-198603-C-1-C Acquired: 6/9/2022 17:20:04 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00086**	**.14054**	**.00109**	**.12033**	**.02167**
Stddev	.00074	.01372	.00047	.00043	.00003
%RSD	86.391	9.7652	43.547	.35548	.11626
#1	-.00139	.13084	.00075	.12064	.02169
#2	-.00034	.15025	.00143	.12003	.02165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**37.308**	**.00006**	**-.0102**	**.00008**
Stddev	.00008	.011	.00016	.0063	.00013
%RSD	134.48	.03008	268.09	62.32	148.11
#1	.00011	37.301	-.00005	-.0147	-.00000
#2	.00000	37.316	.00017	-.0057	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00065**	**.01471**	**.31007**	**8.0162**	**.00417**
Stddev	.00038	.00028	.00066	.0498	.00102
%RSD	58.371	1.9326	.21443	.62155	24.468
#1	.00092	.01451	.31054	7.9810	.00489
#2	.00038	.01491	.30960	8.0515	.00345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198603-C-1-C Acquired: 6/9/2022 17:20:04 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.2786**	**.24994**	**-.00013**	**90.762**	**.00119**
Stddev	.0067	.00030	.00016	.259	.00014
%RSD	.08074	.11834	120.54	.28489	11.544
#1	8.2833	.25015	-.00024	90.579	.00109
#2	8.2739	.24973	-.00002	90.945	.00129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.59**	**.00340**	**8.3556**	**-.00067**	**-.00959**
Stddev	.01	.00159	.0644	.00339	.00106
%RSD	.0536	46.848	.77011	505.07	11.026
#1	26.60	.00453	8.4011	-.00307	-.00885
#2	26.58	.00227	8.3101	.00173	-.01034
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.8186**	**.00034**	**.12590**	**.9978**	**.00274**
Stddev	.0001	.00061	.00011	.0014	.00031
%RSD	.00452	182.04	.08405	.1439	11.199
#1	2.8187	.00077	.12597	.9968	.00296
#2	2.8185	-.00010	.12582	.9989	.00252
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198603-C-1-C Acquired: 6/9/2022 17:20:04 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00296**	**.00039**	**.07054**	**.9995**
Stddev	.00086	.00044	.00007	.0003
%RSD	28.862	113.76	.09708	.0348
#1	.00236	.00008	.07049	.9993
#2	.00357	.00070	.07059	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3540.2**	**3344.8**	**67152.**	**5922.7**
Stddev	21.8	17.8	204.	.7
%RSD	.61447	.53151	.30386	.01110
#1	3524.9	3332.2	67007.	5923.2
#2	3555.6	3357.4	67296.	5922.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.779%	94.711%	93.078%	96.652%
Range				

Sample Name: 480-198605-B-1-C Acquired: 6/9/2022 17:23:53 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00092**	**.45384**	**-.00017**	**.16046**	**.10725**
Stddev	.00064	.00894	.00186	.00091	.00008
%RSD	69.470	1.9697	1101.8	.56869	.07152
#1	.00137	.46016	-.00148	.15982	.10720
#2	.00047	.44752	.00115	.16111	.10731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**29.528**	**.00163**	**-.0236**	**.00047**
Stddev	.00004	.018	.00010	.0175	.00018
%RSD	89.025	.06162	5.8442	74.31	38.576
#1	-.00002	29.541	.00156	-.0360	.00034
#2	-.00007	29.516	.00169	-.0112	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02718**	**.10437**	**1.1916**	**11.726**	**.00417**
Stddev	.00014	.00098	.0104	.017	.00072
%RSD	.51977	.93651	.87390	.14467	17.255
#1	.02708	.10506	1.1990	11.714	.00366
#2	.02728	.10368	1.1843	11.738	.00468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198605-B-1-C Acquired: 6/9/2022 17:23:53 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.3847**	**.05787**	**.00900**	**69.614**	**.04360**
Stddev	.0134	.00003	.00020	.349	.00021
%RSD	.30538	.05373	2.1965	.50123	.48456
#1	4.3752	.05785	.00914	69.861	.04375
#2	4.3942	.05789	.00886	69.367	.04345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.04**	**.00547**	**10.151**	**-.00134**	**-.00323**
Stddev	.00	.00114	.008	.00390	.00359
%RSD	.0115	20.769	.08122	290.56	111.18
#1	28.04	.00627	10.145	-.00410	-.00577
#2	28.03	.00467	10.156	.00142	-.00069
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.1306**	**.01560**	**.11677**	**.9969**	**.02257**
Stddev	.0014	.00083	.00001	.0024	.00034
%RSD	.02232	5.3038	.01126	.2454	1.5066
#1	6.1316	.01618	.11678	.9986	.02233
#2	6.1296	.01501	.11676	.9952	.02281
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198605-B-1-C Acquired: 6/9/2022 17:23:53 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00086**	**.33411**	**1.001**
Stddev	.00083	.00010	.00188	.000
%RSD	332.45	11.431	.56273	.0264
#1	-.00034	.00093	.33278	1.001
#2	.00084	.00079	.33544	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3542.8**	**3331.1**	**67655.**	**5938.0**
Stddev	3.4	.6	96.	10.1
%RSD	.09738	.01809	.14198	.16945
#1	3545.3	3330.6	67723.	5930.9
#2	3540.4	3331.5	67587.	5945.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.844%	94.322%	93.776%	96.901%
Range				

Sample Name: 480-198605-B-2-C Acquired: 6/9/2022 17:27:41 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	F **.26900**	**-.00230**	F **.15480**	F **.02466**
Stddev	.00060	.00212	.00278	.00035	.00002
%RSD	105.14	.78780	120.63	.22750	.08844
#1	-.00015	.27049	-.00034	.15455	.02468
#2	-.00099	.26750	-.00427	.15505	.02465
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail
High Limit		.20000		.02000	.00200
Low Limit		-.04000		-.00800	-.00300

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	F **27.087**	**-.00006**	**-.0241**	**.00018**
Stddev	.00003	.104	.00016	.0484	.00011
%RSD	51.055	.38404	268.75	200.7	59.132
#1	.00004	27.160	-.00018	.0101	.00026
#2	.00008	27.013	.00006	-.0583	.00011
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.50000			
Low Limit		-.05000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00276**	**.00693**	F **.13669**	F **11.428**	**.00483**
Stddev	.00011	.00002	.00270	.061	.00024
%RSD	4.0997	.27647	1.9742	.53213	5.0417
#1	.00284	.00692	.13860	11.471	.00466
#2	.00268	.00695	.13479	11.385	.00501
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit			.05000	.50000	
Low Limit			-.04000	-.50000	

Sample Name: 480-198605-B-2-C Acquired: 6/9/2022 17:27:41 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **4.0728**	F **.03909**	**.00293**	F **106.72**	F **.01817**
Stddev	.0033	.00008	.00017	.05	.00011
%RSD	.08150	.20062	5.7061	.04774	.58389
#1	4.0705	.03915	.00282	106.69	.01810
#2	4.0752	.03904	.00305	106.76	.01825
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail
High Limit	.20000	.00300		1.0000	.01000
Low Limit	-.04000	-.00300		-.50000	-.00300

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.18**	**.00042**	F **10.205**	**.00168**	**-.01112**
Stddev	.00	.00043	.016	.00100	.00029
%RSD	.0029	100.87	.15735	59.769	2.6126
#1	25.18	.00012	10.217	.00097	-.01091
#2	25.18	.00072	10.194	.00239	-.01132
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			.20000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **5.0658**	**.00023**	F **.10228**	**.9967**	**.00349**
Stddev	.0305	.00018	.00031	.0026	.00107
%RSD	.60195	78.942	.30145	.2580	30.664
#1	5.0873	.00010	.10250	.9949	.00274
#2	5.0442	.00036	.10206	.9985	.00425
Check ?	Chk Fail	Chk Pass	Chk Fail	None	Chk Pass
High Limit	.50000		.00500		
Low Limit	-.50000		-.00500		

Sample Name: 480-198605-B-2-C Acquired: 6/9/2022 17:27:41 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00162**	**-.00010**	F **.06174**	**.9995**
Stddev	.00084	.00005	.00046	.0006
%RSD	52.139	48.350	.74488	.0567
#1	.00102	-.00013	.06142	.9991
#2	.00221	-.00006	.06207	.9999
Check ?	Chk Pass	Chk Pass	Chk Fail	None
High Limit			.01000	
Low Limit			-.00300	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3505.8**	**3311.0**	**66733.**	**5869.8**
Stddev	3.9	2.9	7.	10.5
%RSD	.11224	.08818	.01032	.17895
#1	3508.6	3313.0	66728.	5862.4
#2	3503.0	3308.9	66738.	5877.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.915%	93.752%	92.498%	95.789%
Range				

Sample Name: 480-198736-C-1-A Acquired: 6/9/2022 17:31:31 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00062**	F **.97041**	F **.00901**	F **.06995**	F **.12418**
Stddev	.00009	.02687	.00230	.00042	.00033
%RSD	13.742	2.7694	25.559	.60359	.26331
#1	-.00056	.98941	.00738	.07024	.12441
#2	-.00068	.95140	.01064	.06965	.12395
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	.05750	11.500	.23000	.23000	.23000
Low Limit	.04250	8.5000	.17000	.17000	.17000

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.00003**	F **5.6707**	F **.00017**	**-.0231**	F **.00100**
Stddev	.00009	.0217	.00005	.0073	.00012
%RSD	292.20	.38333	26.438	31.64	12.058
#1	.00010	5.6861	.00021	-.0179	.00092
#2	-.00003	5.6554	.00014	-.0283	.00109
Check ?	Chk Fail	Chk Fail	Chk Fail	None	Chk Fail
High Limit	.23000	11.500	.23000		.23000
Low Limit	.17000	8.5000	.17000		.17000

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.05499**	F **.09548**	F **8.2475**	F **124.77**	F **.00009**
Stddev	.00023	.00010	.0016	.15	.00005
%RSD	.41069	.10851	.01912	.12213	51.165
#1	.05515	.09555	8.2486	124.87	.00006
#2	.05483	.09540	8.2464	124.66	.00013
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	.23000	.23000	11.500	11.500	12.000
Low Limit	.17000	.17000	8.5000	8.5000	.17000

Sample Name: 480-198736-C-1-A Acquired: 6/9/2022 17:31:31 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **1.2333**	F **.11519**	F **.01361**	F **150.14**	F **.02275**
Stddev	.0027	.00008	.00016	.31	.00033
%RSD	.21821	.07334	1.1870	.20559	1.4294
#1	1.2314	.11525	.01349	150.36	.02252
#2	1.2352	.11513	.01372	149.92	.02298
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	11.500	.23000	.23000	11.500	.23000
Low Limit	8.5000	.17000	.17000	8.5000	.17000

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**103.8**	F **.00270**	F **42.159**	F **.00476**	F **-.00568**
Stddev	.1	.00155	.028	.00194	.00142
%RSD	.0915	57.296	.06754	40.708	24.929
#1	103.9	.00379	42.139	.00614	-.00669
#2	103.7	.00161	42.179	.00339	-.00468
Check ?	None	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit		.23000	11.500	.23000	.23000
Low Limit		.17000	8.5000	.17000	.17000

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **3.1613**	F **.00246**	F **.02059**	**.9979**	F **.08312**
Stddev	.0026	.00014	.00009	.0031	.00011
%RSD	.08105	5.8736	.43829	.3155	.13533
#1	3.1595	.00236	.02065	.9957	.08304
#2	3.1631	.00256	.02052	1.000	.08320
Check ?	Chk Fail	Chk Fail	Chk Fail	None	Chk Fail
High Limit	11.500	.23000	.23000		.23000
Low Limit	8.5000	.17000	.17000		.17000

Sample Name: 480-198736-C-1-A Acquired: 6/9/2022 17:31:31 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	F .00308	F .00119	F .70785	1.001
Stddev	.00081	.00011	.00273	.001
%RSD	26.264	9.2388	.38577	.0814
#1	.00251	.00111	.70978	1.000
#2	.00366	.00127	.70592	1.001
Check ?	Chk Fail	Chk Fail	Chk Fail	None
High Limit	.23000	.23000	.23000	
Low Limit	.17000	.17000	.17000	
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3435.2	3329.0	67253.	5998.1
Stddev	6.3	6.5	80.	.5
%RSD	.18237	.19651	.11960	.00788
#1	3430.7	3324.4	67197.	5997.8
#2	3439.6	3333.7	67310.	5998.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.144%	94.264%	93.219%	97.882%
Range				

Sample Name: 480-198741-B-1-A Acquired: 6/9/2022 17:35:18 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00123**	**-.03620**	**.00260**	**.71911**	**.14756**
Stddev	.00025	.01998	.00009	.00149	.00036
%RSD	19.908	55.200	3.3640	.20660	.24164
#1	-.00141	-.05033	.00254	.71806	.14731
#2	-.00106	-.02207	.00266	.72016	.14781
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**177.87**	**.00011**	**-.0779**	**.00197**
Stddev	.00000	.54	.00002	.0189	.00013
%RSD	46.644	.30398	15.651	24.26	6.6354
#1	.00000	178.26	.00013	-.0912	.00206
#2	.00001	177.49	.00010	-.0645	.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**-.00201**	**.15277**	**2.2092**	**.01168**
Stddev	.00033	.00057	.00099	.0117	.00018
%RSD	91.172	28.556	.64887	.52759	1.5485
#1	-.00013	-.00242	.15207	2.2174	.01181
#2	-.00060	-.00160	.15347	2.2010	.01156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198741-B-1-A Acquired: 6/9/2022 17:35:18 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**55.579**	**2.9008**	**-.00140**	**18.699**	**.00485**
Stddev	.097	.0068	.00027	.039	.00021
%RSD	.17466	.23586	19.011	.20705	4.2541
#1	55.510	2.8960	-.00121	18.726	.00470
#2	55.648	2.9057	-.00159	18.672	.00499
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00163**	**33.422**	**-.00211**	**-.00771**
Stddev	.00	.00031	.012	.00366	.00157
%RSD	.0001	19.123	.03580	173.19	20.398
#1	25.01	.00141	33.414	-.00470	-.00660
#2	25.01	.00185	33.431	.00047	-.00882
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.0504**	**-.00104**	**.63050**	**.9977**	**.00004**
Stddev	.0522	.00077	.00168	.0029	.00014
%RSD	.64813	73.927	.26658	.2908	317.34
#1	8.0873	-.00050	.63169	.9957	.00014
#2	8.0135	-.00159	.62932	.9998	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198741-B-1-A Acquired: 6/9/2022 17:35:18 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00243**	**-.00056**	**.02523**	**.9989**
Stddev	.00146	.00015	.00120	.0002
%RSD	60.007	27.143	4.7736	.0180
#1	.00346	-.00046	.02608	.9991
#2	.00140	-.00067	.02438	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3463.7**	**3281.1**	**66910.**	**5917.2**
Stddev	1.1	.4	109.	17.7
%RSD	.03301	.01167	.16246	.29903
#1	3464.5	3280.9	66987.	5904.6
#2	3462.9	3281.4	66833.	5929.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.860%	92.908%	92.743%	96.561%
Range				

Sample Name: CCV-7024752 Acquired: 6/9/2022 17:39:14 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99394**	**49.411**	**.99651**	**1.0094**	**.96973**
Stddev	.00165	.013	.00389	.0003	.00106
%RSD	.16579	.02666	.39081	.02927	.10966
#1	.99277	49.402	.99927	1.0091	.97048
#2	.99510	49.421	.99376	1.0096	.96898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97874**	**49.879**	**.99017**	**.9656**	**.98185**
Stddev	.00044	.034	.00040	.0286	.00018
%RSD	.04488	.06848	.04076	2.962	.01817
#1	.97843	49.903	.98989	.9454	.98172
#2	.97905	49.855	.99046	.9858	.98197
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0019**	**.99667**	**50.109**	**49.604**	**.96581**
Stddev	.0004	.00075	.076	.044	.00010
%RSD	.03976	.07562	.15250	.08897	.01044
#1	1.0022	.99614	50.055	49.573	.96588
#2	1.0016	.99721	50.163	49.635	.96574
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 17:39:14 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.559**	**1.0092**	**.99144**	**48.984**	**.99591**
Stddev	.003	.0006	.00416	.048	.00088
%RSD	.00610	.06043	.41932	.09855	.08817
#1	50.561	1.0096	.99438	49.018	.99529
#2	50.557	1.0088	.98850	48.950	.99653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.54**	**.99517**	**25.053**	**1.0028**	**.99695**
Stddev	.02	.00092	.027	.0047	.00437
%RSD	.0413	.09212	.10757	.46598	.43833
#1	37.53	.99453	25.072	1.0061	1.0000
#2	37.55	.99582	25.034	.99952	.99386
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8737**	**.98573**	**.98889**	**1.495**	**.99379**
Stddev	.0091	.00084	.00072	.001	.00139
%RSD	.09175	.08485	.07305	.0333	.13990
#1	9.8673	.98514	.98940	1.494	.99477
#2	9.8801	.98632	.98838	1.495	.99281
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 17:39:14 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0010**	**1.0032**	**1.0230**	**1.499**
Stddev	.0028	.0002	.0002	.000
%RSD	.27523	.01753	.02300	.0016
#1	1.0030	1.0031	1.0232	1.499
#2	.99908	1.0034	1.0228	1.499
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3453.2**	**3370.3**	**67386.**	**5920.8**
Stddev	.7	.5	40.	10.9
%RSD	.01939	.01411	.05907	.18449
#1	3453.7	3370.7	67358.	5913.1
#2	3452.7	3370.0	67414.	5928.6

Sample Name: CCB-7026764 Acquired: 6/9/2022 17:42:54 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**-.02179**	**.00019**	**.00067**	**.00003**
Stddev	.00001	.02661	.00288	.00006	.00001
%RSD	4.0979	122.12	1548.3	8.3879	24.964
#1	-.00029	-.04061	.00222	.00071	.00002
#2	-.00028	-.00297	-.00185	.00063	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00006**	**.00006**	**-.0056**	**-.00003**
Stddev	.00004	.00059	.00013	.0133	.00003
%RSD	126.89	1030.6	203.76	236.3	102.27
#1	.00000	-.00036	.00015	-.0151	-.00001
#2	.00005	.00047	-.00003	.0038	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00051**	**.00638**	**.02806**	**.00018**
Stddev	.00019	.00043	.00251	.00255	.00027
%RSD	116.44	84.635	39.352	9.0740	147.64
#1	-.00029	.00021	.00461	.02626	.00037
#2	-.00003	.00082	.00816	.02986	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 17:42:54 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00289**	**.00010**	**.00240**	**-.01113**	**-.00002**
Stddev	.00047	.00001	.00054	.00174	.00038
%RSD	16.179	12.574	22.524	15.678	1644.2
#1	.00256	.00009	.00202	-.01236	-.00029
#2	.00322	.00011	.00278	-.00989	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00036**	**-.00467**	**-.00057**	**.00486**
Stddev	.00	.00010	.00285	.00053	.00210
%RSD	.0029	28.306	60.958	92.670	43.114
#1	25.00	-.00043	-.00266	-.00020	.00338
#2	25.00	-.00028	-.00669	-.00095	.00634
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02568**	**.00059**	**.00005**	**.9975**	**.00039**
Stddev	.00681	.00079	.00005	.0019	.00010
%RSD	26.514	134.07	100.77	.1897	24.171
#1	-.02086	.00003	.00009	.9989	.00046
#2	-.03049	.00115	.00002	.9962	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 17:42:54 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00062**	**-.00009**	**.00005**	**.9999**
Stddev	.00028	.00005	.00001	.0002
%RSD	45.432	56.593	25.871	.0223
#1	.00083	-.00013	.00006	1.000
#2	.00042	-.00005	.00004	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3986.2**	**3508.8**	**71298.**	**6042.8**
Stddev	3.0	5.6	309.	19.9
%RSD	.07600	.16023	.43329	.32993
#1	3984.0	3504.8	71079.	6056.9
#2	3988.3	3512.8	71516.	6028.7

Sample Name: CCVL-7019501 Acquired: 6/9/2022 17:46:49 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00512**	**.18523**	**.01475**	**.01854**	**.00206**
Stddev	.00018	.00662	.00128	.00016	.00000
%RSD	3.5130	3.5713	8.6827	.85250	.09868
#1	.00499	.18991	.01385	.01843	.00206
#2	.00525	.18055	.01566	.01865	.00206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00200**	**.49110**	**.00192**	**-.0127**	**.00376**
Stddev	.00007	.00134	.00001	.0093	.00015
%RSD	3.6900	.27285	.63366	73.27	3.9598
#1	.00195	.49205	.00191	-.0061	.00386
#2	.00205	.49016	.00193	-.0193	.00365
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00337**	**.01024**	**.04986**	**.49270**	**.02621**
Stddev	.00017	.00001	.00202	.00667	.00057
%RSD	5.0188	.07779	4.0496	1.3543	2.1743
#1	.00349	.01023	.05129	.48798	.02662
#2	.00325	.01024	.04843	.49742	.02581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7019501 Acquired: 6/9/2022 17:46:49 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19481**	**.00297**	**.00931**	**.93399**	**.00943**
Stddev	.00231	.00009	.00005	.00864	.00015
%RSD	1.1876	3.0035	.49392	.92491	1.5375
#1	.19645	.00303	.00928	.92788	.00933
#2	.19317	.00290	.00935	.94010	.00954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00941**	**.17600**	**.01732**	W **.01720**
Stddev	.00	.00112	.00016	.00124	.00017
%RSD	.0025	11.845	.08939	7.1754	1.0007
#1	25.00	.00863	.17589	.01644	.01732
#2	25.00	.01020	.17611	.01820	.01708
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value	.0060				.02500
Range	50.00%				-30.000%

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44456**	**.00850**	**.00494**	F **.9973**	**.00439**
Stddev	.00251	.00003	.00004	.0021	.00018
%RSD	.56507	.31061	.82939	.2096	4.0419
#1	.44278	.00852	.00491	.9958	.00427
#2	.44633	.00848	.00497	.9988	.00452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7019501 Acquired: 6/9/2022 17:46:49 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02022**	**.00479**	**.00746**	F **.9992**
Stddev	.00005	.00027	.00015	.0001
%RSD	.22991	5.6309	2.0064	.0057
#1	.02025	.00498	.00735	.9992
#2	.02019	.00460	.00756	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3966.6**	**3519.1**	**71415.**	**6062.7**
Stddev	4.7	3.5	49.	7.8
%RSD	.11922	.10068	.06857	.12941
#1	3969.9	3521.6	71380.	6057.1
#2	3963.2	3516.6	71450.	6068.2

Sample Name: 480-198741-B-1-B MS Acquired: 6/9/2022 17:50:41 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05007**	**10.212**	**.20984**	**.95795**	**.36100**
Stddev	.00035	.029	.00258	.00017	.00113
%RSD	.69367	.28818	1.2305	.01792	.31258
#1	.04982	10.233	.21167	.95808	.36180
#2	.05031	10.192	.20802	.95783	.36020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20645**	**193.37**	**.20341**	**-.0628**	**.20370**
Stddev	.00003	.85	.00011	.0181	.00029
%RSD	.01338	.44081	.05373	28.82	.14083
#1	.20643	193.97	.20334	-.0756	.20390
#2	.20647	192.77	.20349	-.0500	.20350
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20204**	**.20790**	**10.194**	**12.607**	**.21367**
Stddev	.00043	.00045	.007	.031	.00045
%RSD	.21154	.21544	.06522	.24291	.21150
#1	.20234	.20758	10.199	12.629	.21399
#2	.20173	.20821	10.189	12.585	.21335
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198741-B-1-B MS Acquired: 6/9/2022 17:50:41 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**68.919**	**3.2417**	**.20619**	**29.446**	**.20296**
Stddev	.103	.0046	.00099	.082	.00012
%RSD	.15012	.14115	.48019	.27960	.06073
#1	68.992	3.2449	.20689	29.504	.20287
#2	68.846	3.2384	.20549	29.388	.20305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.20531**	**45.148**	**.21275**	**.19762**
Stddev	.00	.00112	.035	.00058	.00219
%RSD	.0044	.54579	.07763	.27369	1.1058
#1	25.01	.20452	45.173	.21234	.19916
#2	25.00	.20610	45.123	.21316	.19607
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.126**	**.24951**	**.86596**	**1.003**	**.20585**
Stddev	.051	.00057	.00217	.001	.00029
%RSD	.27996	.22978	.25091	.1068	.14270
#1	18.162	.24991	.86750	1.003	.20605
#2	18.091	.24910	.86443	1.002	.20564
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198741-B-1-B MS Acquired: 6/9/2022 17:50:41 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20587**	**.20258**	**.22745**	**1.001**
Stddev	.00025	.00041	.00003	.000
%RSD	.12268	.20179	.01460	.0029
#1	.20605	.20287	.22748	1.001
#2	.20569	.20229	.22743	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3333.8**	**3228.0**	**65353.**	**5871.7**
Stddev	.8	.9	53.	5.7
%RSD	.02453	.02760	.08047	.09658
#1	3334.4	3228.6	65316.	5867.6
#2	3333.2	3227.4	65390.	5875.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.602%	91.403%	90.585%	95.819%
Range				

Sample Name: 480-198741-B-1-C MSD Acquired: 6/9/2022 17:54:33 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04948**	**10.012**	**.20374**	**.92291**	**.34835**
Stddev	.00027	.016	.00159	.00092	.00035
%RSD	.54457	.15807	.78063	.09925	.09956
#1	.04929	10.023	.20487	.92356	.34859
#2	.04967	10.001	.20262	.92227	.34810
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20178**	**184.95**	**.19799**	**-.0486**	**.19718**
Stddev	.00050	.22	.00015	.0113	.00022
%RSD	.24729	.11637	.07779	23.21	.11331
#1	.20213	185.10	.19788	-.0566	.19702
#2	.20143	184.79	.19810	-.0406	.19734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19628**	**.20158**	**9.9658**	**12.318**	**.21115**
Stddev	.00024	.00040	.0382	.035	.00170
%RSD	.12112	.19717	.38333	.28160	.80509
#1	.19644	.20130	9.9928	12.342	.21235
#2	.19611	.20186	9.9388	12.293	.20994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198741-B-1-C MSD Acquired: 6/9/2022 17:54:33 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**65.933**	**3.0929**	**.20205**	**28.551**	**.19689**
Stddev	.025	.0006	.00113	.078	.00039
%RSD	.03823	.02004	.56130	.27461	.19742
#1	65.915	3.0924	.20285	28.607	.19716
#2	65.950	3.0933	.20125	28.496	.19661
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.19829**	**43.470**	**.20933**	**.19381**
Stddev	.00	.00013	.032	.00061	.00303
%RSD	.0008	.06702	.07325	.28916	1.5608
#1	25.00	.19838	43.492	.20890	.19595
#2	25.00	.19820	43.447	.20976	.19167
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.656**	**.23790**	**.83446**	**1.002**	**.20026**
Stddev	.033	.00028	.00200	.003	.00042
%RSD	.18760	.11650	.23950	.2626	.21101
#1	17.680	.23770	.83587	1.004	.19996
#2	17.633	.23810	.83305	1.001	.20056
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198741-B-1-C MSD Acquired: 6/9/2022 17:54:33 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19827**	**.19707**	**.18888**	**.9991**
Stddev	.00084	.00002	.00161	.0005
%RSD	.42238	.00874	.85217	.0501
#1	.19886	.19708	.19002	.9995
#2	.19768	.19706	.18774	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3373.8**	**3257.1**	**66348.**	**5896.7**
Stddev	2.0	3.9	52.	20.4
%RSD	.05955	.12123	.07912	.34672
#1	3372.3	3254.3	66311.	5882.2
#2	3375.2	3259.9	66385.	5911.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.604%	92.228%	91.965%	96.227%
Range				

Sample Name: 480-198741-B-2-A Acquired: 6/9/2022 17:58:25 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**.48470**	**.00140**	**.00955**	**.03894**
Stddev	.00056	.00557	.00349	.00054	.00001
%RSD	82.839	1.1498	249.62	5.6425	.03084
#1	-.00107	.48076	-.00107	.00993	.03893
#2	-.00028	.48864	.00387	.00917	.03894
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**27.374**	**.00001**	**-.0246**	**-.00006**
Stddev	.00002	.007	.00006	.0097	.00001
%RSD	34.584	.02485	444.11	39.65	12.493
#1	.00004	27.379	.00005	-.0177	-.00006
#2	.00006	27.369	-.00003	-.0315	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00112**	**.74597**	**1.3273**	**.00156**
Stddev	.00002	.00015	.00205	.0274	.00174
%RSD	11.615	13.702	.27487	2.0636	111.02
#1	.00020	.00123	.74742	1.3079	.00279
#2	.00017	.00101	.74452	1.3466	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198741-B-2-A Acquired: 6/9/2022 17:58:25 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.0500**	**.20557**	**-.00066**	**.70832**	**.00058**
Stddev	.0002	.00052	.00017	.00643	.00007
%RSD	.00399	.25069	25.104	.90724	12.330
#1	4.0501	.20593	-.00078	.71286	.00063
#2	4.0499	.20520	-.00054	.70378	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00109**	**1.2035**	**-.00219**	**-.00276**
Stddev	.00	.00008	.0026	.00098	.00435
%RSD	.0047	7.0847	.21601	44.598	157.80
#1	25.03	.00103	1.2016	-.00150	-.00583
#2	25.03	.00114	1.2053	-.00288	.00032
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1155**	**-.00142**	**.04065**	**.9979**	**.01449**
Stddev	.0004	.00023	.00007	.0049	.00601
%RSD	.01329	15.915	.16343	.4883	41.510
#1	3.1152	-.00158	.04060	.9945	.01023
#2	3.1158	-.00126	.04069	1.001	.01874
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198741-B-2-A Acquired: 6/9/2022 17:58:25 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00171**	**.00068**	**.00102**	**.9998**
Stddev	.00119	.00022	.00024	.0002
%RSD	69.304	32.469	23.629	.0206
#1	.00087	.00053	.00085	.9996
#2	.00255	.00084	.00119	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3813.0**	**3445.2**	**70099.**	**6018.9**
Stddev	.8	.7	76.	4.3
%RSD	.02066	.02102	.10856	.07102
#1	3813.6	3444.7	70045.	6022.0
#2	3812.5	3445.7	70153.	6015.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.620%	97.553%	97.164%	98.222%
Range				

Sample Name: 480-198741-B-3-A Acquired: 6/9/2022 18:02:16 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00139**	**.07025**	**.01351**	**.78844**	**1.6844**
Stddev	.00029	.00807	.00494	.00101	.0026
%RSD	21.095	11.483	36.586	.12841	.15214
#1	-.00119	.06454	.01701	.78772	1.6826
#2	-.00160	.07595	.01002	.78915	1.6862
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**188.61**	**-.00011**	**-.0102**	**.00151**
Stddev	.00004	.08	.00009	.0021	.00003
%RSD	38.528	.04128	84.174	20.95	2.1260
#1	.00008	188.66	-.00018	-.0118	.00153
#2	.00013	188.55	-.00004	-.0087	.00149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00290**	**-.00137**	**78.161**	**4.8389**	**.00354**
Stddev	.00031	.00022	.102	.0083	.00073
%RSD	10.687	15.768	.13061	.17203	20.690
#1	.00312	-.00152	78.089	4.8330	.00303
#2	.00268	-.00122	78.233	4.8448	.00406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198741-B-3-A Acquired: 6/9/2022 18:02:16 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.565**	**2.1109**	**-.00226**	**10.460**	**.00197**
Stddev	.038	.0019	.00001	.017	.00017
%RSD	.10217	.09024	.62241	.16554	8.4561
#1	37.592	2.1123	-.00225	10.448	.00185
#2	37.538	2.1096	-.00227	10.473	.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.33**	**.00695**	**3.6694**	**.00141**	**-.00675**
Stddev	.00	.00004	.0144	.00124	.00023
%RSD	.0028	.53464	.39181	88.003	3.3751
#1	25.33	.00698	3.6796	.00053	-.00691
#2	25.33	.00693	3.6593	.00228	-.00659
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9249**	**-.00044**	**2.4082**	**1.030**	**.00431**
Stddev	.0062	.00075	.0025	.007	.00009
%RSD	.06272	172.01	.10312	.6842	2.1352
#1	9.9205	-.00097	2.4065	1.035	.00438
#2	9.9293	.00009	2.4100	1.025	.00425
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198741-B-3-A Acquired: 6/9/2022 18:02:16 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00231**	**.00322**	**.01817**	**1.001**
Stddev	.00097	.00007	.00109	.001
%RSD	41.930	2.2927	6.0045	.1064
#1	.00162	.00316	.01894	1.000
#2	.00299	.00327	.01740	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3438.1**	**3369.2**	**68680.**	**6132.1**
Stddev	1.0	2.1	119.	4.2
%RSD	.02914	.06215	.17350	.06799
#1	3437.4	3370.7	68596.	6129.2
#2	3438.8	3367.8	68764.	6135.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.218%	95.403%	95.197%	100.07%
Range				

Sample Name: 480-198743-C-1-A Acquired: 6/9/2022 18:06:14 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**.76402**	**.00186**	**.08256**	**.04294**
Stddev	.00008	.01392	.00116	.00006	.00008
%RSD	11.766	1.8216	62.600	.06723	.18679
#1	-.00072	.77386	.00103	.08260	.04299
#2	-.00061	.75418	.00268	.08252	.04288
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**12.818**	**.00020**	**-.0089**	**.00192**
Stddev	.00004	.003	.00001	.0005	.00011
%RSD	25.694	.02638	2.7339	5.110	5.4990
#1	.00018	12.820	.00020	-.0092	.00199
#2	.00013	12.815	.00019	-.0086	.00184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00266**	**.00989**	**15.776**	**1.9882**	**.00284**
Stddev	.00002	.00029	.017	.0152	.00120
%RSD	.74134	2.9416	.11068	.76207	42.246
#1	.00267	.01010	15.788	1.9775	.00199
#2	.00265	.00969	15.764	1.9989	.00368
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198743-C-1-A Acquired: 6/9/2022 18:06:14 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8368**	**.23436**	**.00789**	**41.099**	**.00731**
Stddev	.0025	.00017	.00031	.053	.00003
%RSD	.13676	.07168	3.8683	.12871	.43761
#1	1.8386	.23448	.00767	41.136	.00734
#2	1.8351	.23425	.00811	41.062	.00729
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.36**	**.00926**	**2.5377**	**-.00094**	**-.00286**
Stddev	.00	.00064	.0031	.00049	.00093
%RSD	.0030	6.9431	.12064	51.533	32.408
#1	25.36	.00972	2.5355	-.00060	-.00351
#2	25.35	.00881	2.5399	-.00129	-.00220
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.2400**	**-.00047**	**.10397**	**1.003**	**.01203**
Stddev	.0102	.00032	.00017	.002	.00154
%RSD	.45499	67.160	.15968	.2053	12.831
#1	2.2472	-.00070	.10386	1.002	.01312
#2	2.2328	-.00025	.10409	1.005	.01094
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198743-C-1-A Acquired: 6/9/2022 18:06:14 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00084**	**.00092**	**.11439**	**1.000**
Stddev	.00097	.00023	.00100	.001
%RSD	115.48	24.648	.87651	.0451
#1	.00153	.00108	.11368	.9999
#2	.00015	.00076	.11510	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3708.3**	**3435.5**	**69654.**	**6092.3**
Stddev	.9	.1	108.	7.3
%RSD	.02368	.00284	.15536	.11949
#1	3708.9	3435.6	69578.	6087.2
#2	3707.7	3435.4	69731.	6097.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.994%	97.279%	96.547%	99.420%
Range				

Sample Name: 480-198743-C-5-A Acquired: 6/9/2022 18:10:02 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00100**	**3.7065**	**-.00174**	**.00442**	**.02802**
Stddev	.00051	.0042	.00200	.00038	.00002
%RSD	50.646	.11384	114.81	8.6292	.05826
#1	-.00064	3.7035	-.00316	.00415	.02801
#2	-.00136	3.7095	-.00033	.00469	.02803
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**4.8084**	**.00014**	**.0086**	**.00009**
Stddev	.00000	.0279	.00003	.0091	.00031
%RSD	1.2134	.57933	19.215	105.7	359.92
#1	.00008	4.7887	.00016	.0022	-.00013
#2	.00008	4.8281	.00012	.0151	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00340**	**.33862**	**.58393**	**.00121**
Stddev	.00003	.00007	.00221	.03977	.00045
%RSD	121.27	2.0532	.65347	6.8109	37.467
#1	-.00005	.00335	.33706	.55580	.00089
#2	-.00000	.00345	.34019	.61205	.00153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198743-C-5-A Acquired: 6/9/2022 18:10:02 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94675**	**.57670**	**-.00138**	**5.2061**	**.00078**
Stddev	.00088	.00119	.00011	.0157	.00023
%RSD	.09274	.20561	8.2395	.30240	28.825
#1	.94613	.57586	-.00146	5.1949	.00062
#2	.94737	.57753	-.00130	5.2172	.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00131**	**1.1511**	**-.00162**	**-.00387**
Stddev	.00	.00031	.0068	.00057	.00071
%RSD	.0001	23.770	.59211	35.278	18.249
#1	25.03	.00109	1.1462	-.00121	-.00437
#2	25.03	.00153	1.1559	-.00202	-.00337
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5331**	**-.00020**	**.01702**	**1.001**	**.00421**
Stddev	.0048	.00023	.00005	.003	.00006
%RSD	.31584	113.48	.26766	.3339	1.3677
#1	1.5365	-.00036	.01705	1.003	.00425
#2	1.5297	-.00004	.01699	.9985	.00417
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198743-C-5-A Acquired: 6/9/2022 18:10:02 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00081**	**.00013**	**.00283**	**.9994**
Stddev	.00016	.00014	.00021	.0001
%RSD	20.010	102.29	7.3105	.0054
#1	.00092	.00004	.00298	.9994
#2	.00070	.00023	.00269	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3831.2**	**3452.0**	**69770.**	**5989.0**
Stddev	1.2	4.9	78.	49.2
%RSD	.03241	.14175	.11152	.82141
#1	3830.3	3448.6	69825.	6023.7
#2	3832.0	3455.5	69715.	5954.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.075%	97.747%	96.708%	97.733%
Range				

Sample Name: 480-198743-C-6-A Acquired: 6/9/2022 18:13:53 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00249**	**189.34**	**.03078**	**.01136**	**.18618**
Stddev	.00031	.18	.00103	.00052	.00006
%RSD	12.248	.09518	3.3620	4.6196	.03242
#1	-.00228	189.47	.03152	.01173	.18614
#2	-.00271	189.22	.03005	.01099	.18623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**7.5634**	**.00066**	**-.2770**	**.00545**
Stddev	.00004	.0150	.00017	.0090	.00002
%RSD	4.9332	.19839	25.822	3.257	.31887
#1	.00078	7.5740	.00079	-.2834	.00544
#2	.00072	7.5528	.00054	-.2706	.00546
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00883**	**.11908**	**17.198**	**8.8193**	**.01137**
Stddev	.00010	.00058	.031	.0257	.00026
%RSD	1.1292	.48909	.17878	.29203	2.2799
#1	.00876	.11950	17.219	8.8011	.01118
#2	.00890	.11867	17.176	8.8375	.01155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198743-C-6-A Acquired: 6/9/2022 18:13:53 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5934**	**22.799**	**-.00178**	**14.382**	**.01824**
Stddev	.0000	.064	.00007	.038	.00008
%RSD	.00100	.28123	4.1328	.26184	.41775
#1	2.5934	22.844	-.00183	14.408	.01829
#2	2.5934	22.754	-.00173	14.355	.01819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.08**	**.02150**	**8.6817**	**-.00601**	**-.00309**
Stddev	.00	.00027	.0074	.00227	.00189
%RSD	.0126	1.2598	.08481	37.761	61.023
#1	26.08	.02169	8.6869	-.00441	-.00443
#2	26.08	.02131	8.6765	-.00762	-.00176
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.691**	**-.00046**	**.03031**	**1.005**	**.09619**
Stddev	.032	.00000	.00007	.001	.00369
%RSD	.21757	.54750	.24383	.0568	3.8345
#1	14.713	-.00046	.03026	1.005	.09880
#2	14.668	-.00046	.03036	1.005	.09358
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198743-C-6-A Acquired: 6/9/2022 18:13:53 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00140**	**.01965**	**.08770**	**1.002**
Stddev	.00061	.00023	.00012	.000
%RSD	43.485	1.1566	.14000	.0195
#1	-.00183	.01981	.08779	1.002
#2	-.00097	.01949	.08762	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3559.7**	**3476.9**	**69144.**	**6113.3**
Stddev	2.9	2.2	143.	6.9
%RSD	.08187	.06273	.20716	.11227
#1	3561.8	3475.4	69042.	6108.5
#2	3557.6	3478.4	69245.	6118.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.267%	98.451%	95.839%	99.763%
Range				

Sample Name: 480-198705-H-1-A Acquired: 6/9/2022 18:17:45 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00132**	**.38222**	**.00267**	**.52135**	**.03264**
Stddev	.00045	.03004	.00146	.00055	.00004
%RSD	33.978	7.8585	54.551	.10540	.11493
#1	-.00164	.36098	.00370	.52096	.03267
#2	-.00100	.40346	.00164	.52173	.03261
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**97.254**	**.00007**	**-.0441**	**.00001**
Stddev	.00005	.537	.00014	.0154	.00004
%RSD	600.27	.55256	207.97	34.78	361.09
#1	-.00003	97.634	.00017	-.0550	.00003
#2	.00004	96.874	-.00003	-.0333	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00099**	**.10494**	**59.668**	**.12981**
Stddev	.00042	.00033	.00033	.243	.00085
%RSD	185.11	33.476	.31915	.40655	.65254
#1	.00052	.00076	.10518	59.839	.13041
#2	-.00007	.00123	.10470	59.496	.12921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198705-H-1-A Acquired: 6/9/2022 18:17:45 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.4273**	**.04180**	**.01539**	**247.36**	**.00158**
Stddev	.0146	.00009	.00009	.93	.00017
%RSD	.60291	.22649	.56999	.37450	11.012
#1	2.4376	.04187	.01533	248.01	.00170
#2	2.4169	.04174	.01546	246.70	.00146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00314**	F **134.42**	**-.00261**	**-.01121**
Stddev	.00	.00130	.08	.00212	.00295
%RSD	.0007	41.537	.06167	81.117	26.339
#1	25.01	.00406	134.48	-.00111	-.01329
#2	25.01	.00222	134.36	-.00411	-.00912
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.971**	**-.00107**	**.84828**	**.9977**	**.00185**
Stddev	.011	.00033	.00199	.0040	.00025
%RSD	.09347	31.089	.23454	.4014	13.468
#1	11.963	-.00130	.84969	.9949	.00168
#2	11.979	-.00083	.84687	1.001	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198705-H-1-A Acquired: 6/9/2022 18:17:45 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	.00131	.00429	-.00256	.9999
Stddev	.00121	.00013	.00068	.0007
%RSD	91.736	3.0576	26.447	.0726
#1	.00046	.00438	-.00208	.9994
#2	.00217	.00419	-.00304	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3348.1	3281.9	65877.	5912.5
Stddev	1.2	1.4	71.	63.1
%RSD	.03642	.04164	.10749	1.0669
#1	3347.2	3282.8	65827.	5867.9
#2	3349.0	3280.9	65927.	5957.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.961%	92.928%	91.311%	96.486%
Range				

Sample Name: 480-198562-F-1-A Acquired: 6/9/2022 18:21:39 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**.04743**	**.04868**	**10.825**	**.51673**
Stddev	.00012	.01520	.00180	.007	.00166
%RSD	14.703	32.054	3.6907	.06616	.32191
#1	-.00092	.03668	.04995	10.830	.51556
#2	-.00074	.05818	.04741	10.820	.51791
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**164.01**	**.00040**	**-.0192**	**.02494**
Stddev	.00008	.88	.00003	.0166	.00020
%RSD	2152.6	.53574	7.7280	86.24	.81771
#1	.00006	163.39	.00038	-.0310	.02509
#2	-.00005	164.63	.00042	-.0075	.02480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08123**	**.00091**	**15.040**	F **589.71**	**.29401**
Stddev	.00028	.00032	.011	.12	.00050
%RSD	.34921	34.622	.07242	.02007	.16895
#1	.08144	.00069	15.048	589.80	.29366
#2	.08103	.00114	15.032	589.63	.29436
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-198562-F-1-A Acquired: 6/9/2022 18:21:39 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**120.46**	**.80981**	**.00476**	F **1209.9**	**.22159**
Stddev	.03	.00038	.00022	.0	.00095
%RSD	.02781	.04634	4.6470	.00053	.42845
#1	120.48	.80954	.00491	1209.9	.22226
#2	120.44	.81007	.00460	1209.9	.22092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.71**	**.00538**	**23.605**	**.00363**	**-.01137**
Stddev	.01	.00029	.043	.00124	.00045
%RSD	.0338	5.3966	.18050	34.058	3.9882
#1	26.72	.00559	23.636	.00450	-.01105
#2	26.70	.00518	23.575	.00275	-.01169
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.315**	**.00782**	**1.1634**	**1.003**	**.05855**
Stddev	.049	.00061	.0009	.001	.00013
%RSD	.20162	7.7839	.07475	.0727	.22916
#1	24.350	.00739	1.1640	1.004	.05846
#2	24.280	.00825	1.1628	1.003	.05865
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198562-F-1-A Acquired: 6/9/2022 18:21:39 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00145**	**.01980**	**.36368**	**1.016**
Stddev	.00028	.00005	.00139	.000
%RSD	19.402	.24764	.38124	.0169
#1	.00165	.01976	.36270	1.016
#2	.00125	.01983	.36466	1.016
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2887.3**	**2997.5**	**60445.**	**5787.5**
Stddev	5.4	1.7	66.	14.1
%RSD	.18710	.05836	.10929	.24348
#1	2883.5	2996.2	60398.	5797.4
#2	2891.2	2998.7	60492.	5777.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	72.406%	84.876%	83.782%	94.445%
Range				

Sample Name: CCV-7024752 Acquired: 6/9/2022 18:25:43 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99013**	**49.138**	**.99173**	**1.0236**	**.97592**
Stddev	.00293	.035	.00028	.0019	.00061
%RSD	.29604	.07120	.02811	.18245	.06238
#1	.98806	49.162	.99193	1.0223	.97635
#2	.99220	49.113	.99154	1.0250	.97549
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98016**	**49.667**	**.99415**	**.9605**	**.98601**
Stddev	.00077	.046	.00205	.0071	.00078
%RSD	.07892	.09291	.20639	.7406	.07914
#1	.98070	49.700	.99269	.9554	.98546
#2	.97961	49.635	.99560	.9655	.98657
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99767**	**.99487**	**50.321**	**50.134**	**.96768**
Stddev	.00212	.00190	.163	.004	.00010
%RSD	.21229	.19085	.32384	.00837	.01051
#1	.99618	.99353	50.436	50.137	.96761
#2	.99917	.99622	50.206	50.131	.96775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 18:25:43 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.494**	**1.0125**	**.99232**	**49.205**	**.99798**
Stddev	.159	.0030	.00075	.031	.00008
%RSD	.31481	.29709	.07593	.06213	.00776
#1	50.381	1.0103	.99285	49.226	.99793
#2	50.606	1.0146	.99179	49.183	.99804
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.55**	**.99723**	**24.997**	**.99262**	**.99354**
Stddev	.02	.00142	.059	.00293	.00135
%RSD	.0576	.14260	.23609	.29478	.13620
#1	37.54	.99622	24.955	.99055	.99450
#2	37.57	.99824	25.038	.99469	.99259
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.083**	**.99322**	**.99205**	**1.494**	**.99397**
Stddev	.014	.00034	.00126	.002	.00077
%RSD	.13487	.03460	.12680	.1198	.07753
#1	10.093	.99347	.99294	1.496	.99342
#2	10.074	.99298	.99116	1.493	.99451
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 18:25:43 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0080**	**1.0042**	**1.0300**	**1.498**
Stddev	.0013	.0013	.0039	.000
%RSD	.12951	.12529	.37338	.0210
#1	1.0089	1.0033	1.0272	1.498
#2	1.0070	1.0051	1.0327	1.499
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3461.2**	**3387.8**	**67627.**	**5943.6**
Stddev	2.9	9.1	232.	.8
%RSD	.08392	.26793	.34276	.01402
#1	3463.3	3394.2	67791.	5943.0
#2	3459.2	3381.3	67463.	5944.1

Sample Name: CCB-7026764 Acquired: 6/9/2022 18:29:23 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**-.02564**	**.00102**	**.00593**	**.00003**
Stddev	.00021	.01365	.00131	.00033	.00000
%RSD	49.456	53.229	129.52	5.6235	6.5099
#1	-.00056	-.01599	.00009	.00617	.00003
#2	-.00027	-.03529	.00194	.00570	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00238**	**.00001**	**-.0005**	**.00006**
Stddev	.00008	.00277	.00013	.0209	.00001
%RSD	217.32	116.16	925.92	4172.	23.050
#1	-.00002	.00043	.00011	-.0153	.00007
#2	.00009	.00434	-.00008	.0143	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00016**	**.01050**	**.23928**	**-.00060**
Stddev	.00014	.00004	.00368	.02122	.00167
%RSD	254.66	24.208	35.106	8.8665	277.77
#1	-.00016	.00013	.00789	.25428	-.00178
#2	.00004	.00019	.01310	.22428	.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 18:29:23 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.00008**	**.00238**	**.05162**	**.00010**
Stddev	.00044	.00002	.00037	.00072	.00008
%RSD	74.435	23.664	15.682	1.3939	76.157
#1	-.00028	.00009	.00212	.05112	.00005
#2	-.00090	.00007	.00264	.05213	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00067**	**-.00450**	**-.00050**	**.00185**
Stddev	.00	.00118	.00093	.00315	.00001
%RSD	.0032	175.70	20.711	635.95	.27561
#1	25.00	-.00150	-.00516	-.00272	.00185
#2	25.00	.00016	-.00384	.00173	.00186
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01177**	**.00040**	**-.00001**	**1.000**	**.00048**
Stddev	.01737	.00017	.00009	.001	.00032
%RSD	147.59	43.403	753.09	.0848	67.685
#1	-.00051	.00027	.00005	.9996	.00071
#2	.02406	.00052	-.00007	1.001	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 18:29:23 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00114**	**-.00024**	**.00010**	**.9989**
Stddev	.00005	.00011	.00015	.0003
%RSD	4.2336	47.216	148.55	.0277
#1	.00110	-.00016	-.00001	.9991
#2	.00117	-.00032	.00021	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4007.2**	**3538.4**	**71946.**	**6027.0**
Stddev	4.4	3.0	76.	26.2
%RSD	.10951	.08468	.10532	.43394
#1	4004.1	3536.2	71892.	6008.5
#2	4010.3	3540.5	71999.	6045.5

Sample Name: CCVL-7019501 Acquired: 6/9/2022 18:33:18 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00570**	**.16111**	**.01133**	**.02281**	**.00205**
Stddev	.00010	.00435	.00060	.00093	.00000
%RSD	1.7257	2.6984	5.2612	4.0562	.15080
#1	.00577	.16418	.01091	.02347	.00205
#2	.00563	.15804	.01175	.02216	.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00197**	**.49079**	**.00205**	**-.0115**	**.00370**
Stddev	.00006	.00116	.00011	.0035	.00004
%RSD	3.1423	.23702	5.3462	30.21	1.1677
#1	.00192	.48996	.00213	-.0140	.00374
#2	.00201	.49161	.00197	-.0091	.00367
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00379**	**.01022**	**.05122**	**.62819**	**.02817**
Stddev	.00035	.00039	.00010	.01348	.00114
%RSD	9.3044	3.8430	.19520	2.1452	4.0544
#1	.00403	.01050	.05129	.61866	.02736
#2	.00354	.00994	.05115	.63772	.02898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7019501 Acquired: 6/9/2022 18:33:18 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19183**	**.00296**	**.00909**	**.97570**	**.00947**
Stddev	.00260	.00001	.00008	.01403	.00022
%RSD	1.3548	.23755	.88566	1.4383	2.3263
#1	.19367	.00296	.00915	.96578	.00963
#2	.18999	.00297	.00903	.98563	.00932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00964**	**.17558**	**.01804**	**.01921**
Stddev	.00	.00124	.00430	.00047	.00152
%RSD	.0021	12.852	2.4485	2.5841	7.9369
#1	25.00	.01052	.17254	.01771	.02029
#2	25.00	.00876	.17862	.01837	.01813
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45425**	**.00816**	**.00493**	F **1.003**	**.00432**
Stddev	.00088	.00010	.00009	.003	.00008
%RSD	.19327	1.2720	1.8268	.2636	1.8917
#1	.45487	.00824	.00487	1.001	.00426
#2	.45363	.00809	.00500	1.004	.00437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7019501 Acquired: 6/9/2022 18:33:18 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02026**	**.00458**	W **.00673**	F **.9990**
Stddev	.00163	.00028	.00023	.0006
%RSD	8.0539	6.1423	3.3810	.0593
#1	.02142	.00438	.00657	.9994
#2	.01911	.00478	.00689	.9986
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Fail
Value			.01000	.0060
Range			-30.000%	50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3981.0**	**3534.9**	**71697.**	**6001.4**
Stddev	3.9	1.5	373.	37.8
%RSD	.09705	.04266	.52048	.62907
#1	3978.3	3533.8	71433.	6028.1
#2	3983.7	3536.0	71961.	5974.7

Sample Name: 480-198562-F-3-A Acquired: 6/9/2022 18:37:10 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**.27983**	**.21325**	F **30.336**	**.57482**
Stddev	.00005	.00017	.00061	.028	.00405
%RSD	6.3152	.05973	.28492	.09365	.70477
#1	.00074	.27995	.21368	30.356	.57768
#2	.00081	.27971	.21282	30.316	.57195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				18.000	
Low Limit				-.02000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**42.308**	**.00050**	**-.0413**	**.07218**
Stddev	.00015	.238	.00000	.0235	.00018
%RSD	148.29	.56206	.95636	56.90	.24950
#1	.00021	42.476	.00050	-.0579	.07231
#2	-.00000	42.140	.00050	-.0247	.07205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48582**	**.03084**	**4.1786**	F **1063.0**	**1.0643**
Stddev	.00052	.00046	.0215	18.0	.0031
%RSD	.10690	1.4860	.51435	1.6974	.29513
#1	.48546	.03051	4.1938	1075.8	1.0665
#2	.48619	.03116	4.1634	1050.3	1.0621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-198562-F-3-A Acquired: 6/9/2022 18:37:10 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**83.413**	**.08702**	**.03141**	F **2937.1**	**.82712**
Stddev	.012	.00007	.00020	14.5	.00349
%RSD	.01379	.07767	.63242	.49514	.42166
#1	83.421	.08698	.03155	2947.4	.82958
#2	83.405	.08707	.03127	2926.8	.82465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.52**	**.01810**	**54.876**	**.05193**	**-.00599**
Stddev	.03	.00184	.192	.00016	.00247
%RSD	.0705	10.142	.35034	.30437	41.177
#1	36.54	.01939	55.012	.05204	-.00774
#2	36.50	.01680	54.740	.05182	-.00425
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.608**	**.18039**	**.83856**	**.9985**	**.49052**
Stddev	.051	.00017	.00520	.0041	.00050
%RSD	.18509	.09563	.61959	.4067	.10219
#1	27.572	.18051	.84223	.9956	.49016
#2	27.644	.18026	.83489	1.001	.49087
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198562-F-3-A Acquired: 6/9/2022 18:37:10 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00088**	**.11527**	**.09066**	**1.145**
Stddev	.00172	.00003	.00020	.001
%RSD	194.75	.02363	.22450	.1147
#1	.00210	.11526	.09080	1.146
#2	-.00033	.11529	.09051	1.144
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2617.2**	**2817.2**	**55237.**	**5553.7**
Stddev	1.2	4.0	66.	44.9
%RSD	.04676	.14350	.11983	.80908
#1	2616.3	2814.4	55191.	5522.0
#2	2618.1	2820.1	55284.	5585.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	65.632%	79.772%	76.564%	90.631%
Range				

Sample Name: MB 480-629215/1-A Acquired: 6/9/2022 18:41:11 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**-.01616**	**-.00188**	F **.03249**	**.00011**
Stddev	.00031	.00928	.00201	.00254	.00001
%RSD	87.854	57.401	106.74	7.8174	6.0329
#1	-.00058	-.02272	-.00046	.03429	.00011
#2	-.00013	-.00960	-.00330	.03070	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.02000	
Low Limit				-.00800	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.03430**	**-.00003**	**-.0169**	**-.00013**
Stddev	.00004	.00068	.00022	.0062	.00019
%RSD	300.18	1.9887	873.42	36.74	150.85
#1	-.00002	.03478	-.00018	-.0125	-.00027
#2	.00004	.03382	.00013	-.0214	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.00056**	**.00936**	F **1.1196**	**.00084**
Stddev	.00033	.00052	.00041	.0409	.00150
%RSD	56.603	91.924	4.4212	3.6533	179.00
#1	.00035	.00020	.00907	1.1485	-.00022
#2	.00081	.00093	.00966	1.0907	.00190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.50000	
Low Limit				-.50000	

Sample Name: MB 480-629215/1-A Acquired: 6/9/2022 18:41:11 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00445**	F **.00320**	**-.00114**	**.35738**	**.00032**
Stddev	.00173	.00008	.00001	.00810	.00023
%RSD	38.988	2.4728	.62041	2.2675	71.904
#1	.00322	.00315	-.00113	.36311	.00048
#2	.00568	.00326	-.00114	.35165	.00016
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.00300			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**-.00016**	**.02283**	**.00010**	**-.00098**
Stddev	.00	.00089	.00046	.00201	.00079
%RSD	.0004	551.65	2.0168	1935.5	80.623
#1	25.03	.00047	.02316	.00152	-.00155
#2	25.03	-.00079	.02250	-.00132	-.00042
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.39061**	F **.05187**	**.00010**	**.9966**	**.00049**
Stddev	.00068	.00030	.00002	.0015	.00026
%RSD	.17343	.57308	16.803	.1498	52.532
#1	.39109	.05166	.00009	.9977	.00068
#2	.39013	.05208	.00011	.9956	.00031
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.01000			
Low Limit		-.01000			

Sample Name: MB 480-629215/1-A Acquired: 6/9/2022 18:41:11 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00031**	**-.00032**	**-.00222**	**.9993**
Stddev	.00001	.00052	.00011	.0001
%RSD	3.9208	164.38	4.9497	.0120
#1	.00031	.00005	-.00230	.9993
#2	.00032	-.00069	-.00214	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3998.5**	**3516.0**	**72035.**	**6005.7**
Stddev	4.8	3.2	178.	14.5
%RSD	.12034	.09137	.24721	.24201
#1	3995.1	3513.7	71909.	5995.4
#2	4001.9	3518.2	72161.	6016.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.27%	99.557%	99.847%	98.006%
Range				

Sample Name: LCSSRM 480-629215/2- Acquired: 6/9/2022 18:45:04 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.29250**	**92.798**	**1.3816**	**.76379**	**2.1467**
Stddev	.00019	.024	.0034	.00195	.0029
%RSD	.06419	.02560	.24504	.25539	.13720
#1	.29237	92.815	1.3840	.76517	2.1488
#2	.29263	92.782	1.3793	.76241	2.1446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4546**	**43.081**	**1.1405**	**1.471**	**1.2040**
Stddev	.0029	.113	.0016	.014	.0001
%RSD	.20253	.26189	.14078	.9447	.01284
#1	1.4567	43.161	1.1417	1.461	1.2039
#2	1.4525	43.001	1.1394	1.481	1.2041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.3552**	**.49960**	**144.71**	**21.715**	**.06886**
Stddev	.0029	.00126	.27	.034	.00121
%RSD	.21788	.25160	.18620	.15613	1.7503
#1	1.3532	.49871	144.90	21.739	.06971
#2	1.3573	.50049	144.52	21.691	.06800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSSRM 480-629215/2- Acquired: 6/9/2022 18:45:04 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.067**	**2.4459**	**.88891**	**1.6048**	**.54443**
Stddev	.092	.0079	.00141	.0102	.00050
%RSD	.41645	.32462	.15814	.63617	.09227
#1	22.002	2.4403	.88990	1.6120	.54408
#2	22.132	2.4515	.88792	1.5976	.54479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.61**	**1.3404**	**.74641**	**.95486**	**1.4528**
Stddev	.00	.0047	.00249	.00070	.0155
%RSD	.0168	.34806	.33331	.07293	1.0677
#1	27.61	1.3371	.74465	.95535	1.4638
#2	27.60	1.3437	.74817	.95436	1.4419
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.6923**	**.76570**	**.81565**	**1.153**	**4.6853**
Stddev	.0246	.00007	.00255	.002	.0059
%RSD	.52523	.00907	.31312	.2054	.12641
#1	4.7098	.76575	.81745	1.151	4.6811
#2	4.6749	.76565	.81384	1.155	4.6895
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSSRM 480-629215/2- Acquired: 6/9/2022 18:45:04 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**1.1339**	**.62782**	**1.3470**	**1.033**
Stddev	.0034	.00271	.0072	.000
%RSD	.30165	.43226	.53654	.0330
#1	1.1315	.62590	1.3419	1.033
#2	1.1363	.62974	1.3522	1.033
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3477.4**	**3916.6**	**79460.**	**6919.6**
Stddev	1.6	3.4	241.	42.1
%RSD	.04598	.08762	.30348	.60856
#1	3478.5	3914.2	79630.	6889.8
#2	3476.3	3919.1	79289.	6949.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.203%	110.90%	110.14%	112.92%
Range				

Sample Name: 480-198663-B-1-A Acquired: 6/9/2022 18:48:44 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00122**	**.16754**	**.03823**	**.28775**	**.09126**
Stddev	.00000	.00063	.00065	.00166	.00004
%RSD	.03612	.37329	1.6915	.57725	.04357
#1	-.00122	.16710	.03777	.28892	.09123
#2	-.00122	.16799	.03869	.28657	.09129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**274.81**	**.00016**	**-.0451**	**.00139**
Stddev	.00004	2.88	.00013	.0262	.00011
%RSD	79.061	1.0468	81.473	58.08	7.5995
#1	.00008	272.78	.00007	-.0636	.00131
#2	.00002	276.84	.00025	-.0266	.00146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02446**	**.13987**	**81.593**	**19.788**	**.76101**
Stddev	.00044	.00009	.263	.032	.00207
%RSD	1.7845	.06579	.32271	.16364	.27173
#1	.02415	.13981	81.407	19.765	.75955
#2	.02476	.13994	81.779	19.811	.76248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198663-B-1-A Acquired: 6/9/2022 18:48:44 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.789**	**1.0544**	**.00945**	**358.17**	**.02552**
Stddev	.004	.0007	.00032	1.00	.00075
%RSD	.01181	.06972	3.3938	.27969	2.9374
#1	34.792	1.0539	.00923	357.46	.02605
#2	34.786	1.0549	.00968	358.88	.02499
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.02591**	**4.0796**	**.00746**	**-.00633**
Stddev	.00	.00018	.0074	.00188	.00274
%RSD	.0029	.70859	.18241	25.145	43.250
#1	25.05	.02604	4.0848	.00879	-.00827
#2	25.05	.02578	4.0743	.00614	-.00440
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46542**	**.06384**	F **10.682**	**1.037**	**.01725**
Stddev	.01101	.00075	.039	.000	.00014
%RSD	2.3657	1.1696	.36356	.0230	.79401
#1	.45763	.06436	10.654	1.037	.01715
#2	.47320	.06331	10.709	1.037	.01734
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-198663-B-1-A Acquired: 6/9/2022 18:48:44 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00320**	**.00862**	**.05506**	**1.001**
Stddev	.00047	.00001	.00083	.000
%RSD	14.633	.13170	1.5035	.0016
#1	.00287	.00861	.05565	1.001
#2	.00353	.00863	.05448	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3152.8**	**3162.3**	**64099.**	**5830.9**
Stddev	3.3	6.4	15.	39.0
%RSD	.10475	.20245	.02379	.66901
#1	3150.5	3157.8	64110.	5858.5
#2	3155.2	3166.8	64088.	5803.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.064%	89.543%	88.847%	95.154%
Range				

Sample Name: 480-198658-A-1-A Acquired: 6/9/2022 18:52:48 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**147.81**	**.05738**	**.12760**	**.49379**
Stddev	.00017	.30	.00131	.00034	.00060
%RSD	475.83	.20029	2.2776	.26954	.12218
#1	-.00009	148.02	.05646	.12784	.49422
#2	.00016	147.60	.05831	.12736	.49337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00479**	**20.979**	**.00425**	**.1721**	**.05187**
Stddev	.00007	.019	.00012	.0028	.00040
%RSD	1.4410	.09271	2.7636	1.648	.78047
#1	.00484	20.992	.00433	.1741	.05159
#2	.00474	20.965	.00417	.1701	.05216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17900**	**.16213**	**156.25**	**20.986**	**.15796**
Stddev	.00013	.00036	.15	.042	.00054
%RSD	.07070	.22259	.09509	.20210	.34198
#1	.17909	.16239	156.36	21.016	.15834
#2	.17891	.16188	156.15	20.956	.15758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-1-A Acquired: 6/9/2022 18:52:48 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.209**	**1.2004**	**.05367**	**.66936**	**.15096**
Stddev	.002	.0003	.00061	.00173	.00059
%RSD	.00895	.02420	1.1423	.25877	.38995
#1	19.210	1.2006	.05410	.67058	.15054
#2	19.208	1.2002	.05323	.66813	.15137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.44**	**.30593**	**3.2116**	**.00583**	**.00098**
Stddev	.00	.00072	.0086	.00259	.00348
%RSD	.0045	.23589	.26880	44.352	356.86
#1	26.43	.30644	3.2055	.00766	-.00149
#2	26.44	.30542	3.2177	.00400	.00344
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.1361**	**.05730**	**.08959**	**1.076**	**.61283**
Stddev	.0765	.00069	.00020	.002	.00309
%RSD	.83747	1.1967	.22147	.1902	.50487
#1	9.1902	.05682	.08973	1.075	.61064
#2	9.0820	.05779	.08945	1.078	.61502
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-1-A Acquired: 6/9/2022 18:52:48 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	.00711	.53664	.92064	1.020
Stddev	.00024	.00009	.00217	.001
%RSD	3.3204	.01766	.23620	.1062
#1	.00727	.53671	.92218	1.020
#2	.00694	.53657	.91911	1.019
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3539.9	3601.2	71626.	6354.7
Stddev	7.0	5.6	37.	11.2
%RSD	.19664	.15599	.05114	.17699
#1	3535.0	3597.2	71652.	6362.7
#2	3544.8	3605.1	71600.	6346.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.770%	101.97%	99.280%	103.70%
Range				

Sample Name: 480-198658-A-4-A Acquired: 6/9/2022 18:56:34 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**133.16**	**.05504**	**.10260**	**.59292**
Stddev	.00054	.02	.00171	.00104	.00022
%RSD	71.157	.01752	3.1066	1.0129	.03701
#1	-.00038	133.15	.05625	.10334	.59308
#2	-.00113	133.18	.05383	.10187	.59277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00535**	**27.375**	**.00416**	**.2558**	**.07149**
Stddev	.00002	.010	.00013	.0172	.00006
%RSD	.37422	.03578	3.1934	6.743	.08048
#1	.00537	27.382	.00425	.2680	.07145
#2	.00534	27.368	.00406	.2436	.07153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.16853**	**.19160**	**166.40**	**18.119**	**.16381**
Stddev	.00042	.00011	.26	.032	.00308
%RSD	.24966	.05799	.15837	.17702	1.8776
#1	.16823	.19152	166.58	18.096	.16598
#2	.16883	.19168	166.21	18.141	.16163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-4-A Acquired: 6/9/2022 18:56:34 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.044**	**4.3016**	**.01982**	**.63271**	**.18925**
Stddev	.015	.0063	.00003	.00374	.00014
%RSD	.05618	.14646	.16587	.59105	.07553
#1	26.054	4.2972	.01980	.63535	.18915
#2	26.033	4.3061	.01985	.63007	.18935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.15**	**.30361**	**3.0596**	**.00284**	**.00065**
Stddev	.00	.00232	.0036	.00233	.00203
%RSD	.0038	.76566	.11718	81.961	311.39
#1	27.15	.30197	3.0622	.00449	-.00078
#2	27.14	.30526	3.0571	.00120	.00209
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.1531**	**.06131**	**.12768**	**1.085**	**1.1287**
Stddev	.0485	.00037	.00016	.002	.0062
%RSD	.78872	.60581	.12764	.1749	.55183
#1	6.1875	.06157	.12780	1.086	1.1331
#2	6.1188	.06104	.12757	1.084	1.1243
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-4-A Acquired: 6/9/2022 18:56:34 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00220**	**.29635**	**.93864**	**1.010**
Stddev	.00276	.00063	.00182	.000
%RSD	125.75	.21158	.19422	.0059
#1	.00024	.29680	.93735	1.010
#2	.00415	.29591	.93993	1.010
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3512.8**	**3725.5**	**74309.**	**6578.0**
Stddev	.9	5.1	7.	15.6
%RSD	.02455	.13657	.00963	.23692
#1	3512.2	3721.9	74314.	6589.0
#2	3513.5	3729.1	74304.	6567.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.092%	105.49%	103.00%	107.35%
Range				

Sample Name: 480-198658-A-4-Asd@5 Acquired: 6/9/2022 19:00:27 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**30.475**	**.01116**	**.02792**	**.13666**
Stddev	.00020	.027	.00073	.00033	.00039
%RSD	40.283	.09007	6.5438	1.1657	.28585
#1	-.00065	30.494	.01168	.02769	.13638
#2	-.00036	30.456	.01065	.02815	.13694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00118**	**6.3247**	**.00098**	**.0522**	**.01483**
Stddev	.00000	.0255	.00009	.0097	.00001
%RSD	.22401	.40367	9.1676	18.68	.05096
#1	.00118	6.3428	.00092	.0453	.01482
#2	.00119	6.3066	.00105	.0591	.01483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03790**	**.04279**	**38.168**	**4.2062**	**.03817**
Stddev	.00034	.00030	.145	.0084	.00146
%RSD	.90091	.69321	.37865	.20087	3.8158
#1	.03766	.04258	38.270	4.2122	.03920
#2	.03814	.04300	38.066	4.2002	.03714
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-4-Asd@5 Acquired: 6/9/2022 19:00:27 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.0413**	**1.0070**	**.00325**	**.16691**	**.03956**
Stddev	.0191	.0030	.00017	.00642	.00016
%RSD	.31547	.29722	5.1998	3.8468	.40398
#1	6.0278	1.0049	.00313	.17145	.03945
#2	6.0547	1.0091	.00337	.16237	.03968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.49**	**.06380**	**.68055**	**.00173**	**-.00458**
Stddev	.00	.00006	.00366	.00000	.00167
%RSD	.0075	.10135	.53846	.14144	36.413
#1	25.49	.06375	.68314	.00173	-.00575
#2	25.49	.06384	.67796	.00173	-.00340
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.3441**	**.01180**	**.02920**	**1.016**	**.25639**
Stddev	.0109	.00067	.00018	.000	.00577
%RSD	.80850	5.6810	.62791	.0014	2.2491
#1	1.3364	.01133	.02933	1.016	.25231
#2	1.3518	.01228	.02907	1.016	.26047
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-4-Asd@5 Acquired: 6/9/2022 19:00:27 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00130**	**.06596**	**.21603**	**1.002**
Stddev	.00128	.00037	.00025	.001
%RSD	98.806	.55663	.11504	.0623
#1	.00039	.06622	.21585	1.002
#2	.00221	.06570	.21621	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3729.6**	**3509.5**	**70460.**	**6000.0**
Stddev	2.5	7.5	242.	30.9
%RSD	.06693	.21229	.34374	.51462
#1	3731.4	3514.8	70632.	5978.2
#2	3727.9	3504.2	70289.	6021.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.528%	99.374%	97.665%	97.914%
Range				

Sample Name: 480-198658-A-4-A PDS Acquired: 6/9/2022 19:04:14 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.09174	141.79	.42183	.45308	.89651
Stddev	.00041	.26	.00087	.00083	.00004
%RSD	.44946	.18280	.20546	.18420	.00437
#1	.09203	141.61	.42244	.45249	.89649
#2	.09145	141.98	.42122	.45367	.89654
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.37613	43.541	.36966	.2140	.47603
Stddev	.00075	.019	.00008	.0138	.00035
%RSD	.19850	.04399	.02179	6.459	.07457
#1	.37561	43.528	.36960	.2238	.47629
#2	.37666	43.555	.36972	.2042	.47578
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.52996	.56799	173.73	35.467	.51283
Stddev	.00063	.00061	.31	.058	.00104
%RSD	.11900	.10753	.17622	.16386	.20252
#1	.52952	.56843	173.51	35.426	.51356
#2	.53041	.56756	173.94	35.508	.51209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-4-A PDS Acquired: 6/9/2022 19:04:14 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**43.100**	**4.3809**	**.39686**	**18.655**	**.57836**
Stddev	.003	.0187	.00025	.034	.00020
%RSD	.00805	.42690	.06180	.18286	.03394
#1	43.103	4.3677	.39704	18.631	.57850
#2	43.098	4.3941	.39669	18.679	.57823
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.05**	**.68943**	**20.810**	**.38797**	**.36481**
Stddev	.00	.00175	.027	.00268	.00189
%RSD	.0085	.25369	.13059	.69052	.51937
#1	27.05	.68819	20.830	.38987	.36615
#2	27.05	.69066	20.791	.38608	.36347
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.521**	**.46218**	**.49160**	**1.087**	**1.4195**
Stddev	.017	.00147	.00010	.001	.0031
%RSD	.07256	.31857	.02092	.0562	.21806
#1	23.509	.46114	.49153	1.087	1.4173
#2	23.533	.46323	.49167	1.088	1.4217
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-4-A PDS Acquired: 6/9/2022 19:04:14 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.41088**	**.64765**	**1.2498**	**1.011**
Stddev	.00068	.00044	.0053	.000
%RSD	.16481	.06766	.42418	.0403
#1	.41040	.64796	1.2461	1.010
#2	.41136	.64734	1.2536	1.011
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3413.7**	**3654.8**	**73152.**	**6510.6**
Stddev	.8	1.9	77.	4.5
%RSD	.02276	.05100	.10461	.06888
#1	3413.1	3656.2	73206.	6507.4
#2	3414.2	3653.5	73098.	6513.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.605%	103.49%	101.40%	106.25%
Range				

Sample Name: 480-198658-A-4-B MS Acquired: 6/9/2022 19:08:01 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08802**	**214.35**	**.39219**	**.55726**	**1.1789**
Stddev	.00102	.28	.00087	.00152	.0014
%RSD	1.1547	.13072	.22295	.27276	.11723
#1	.08874	214.16	.39281	.55834	1.1779
#2	.08730	214.55	.39157	.55619	1.1799
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.35733**	**42.980**	**.34344**	**.3144**	**.45248**
Stddev	.00031	.004	.00091	.0051	.00045
%RSD	.08735	.00851	.26442	1.633	.09913
#1	.35711	42.977	.34408	.3180	.45216
#2	.35755	42.982	.34279	.3108	.45280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.57592**	**.54157**	**176.86**	**60.091**	**.53515**
Stddev	.00069	.00004	.38	.021	.00245
%RSD	.12032	.00787	.21292	.03417	.45767
#1	.57641	.54154	176.60	60.076	.53342
#2	.57543	.54160	177.13	60.105	.53689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-4-B MS Acquired: 6/9/2022 19:08:01 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.116**	**4.1002**	**.36835**	**18.624**	**.55866**
Stddev	.053	.0013	.00068	.017	.00003
%RSD	.11114	.03047	.18516	.09223	.00561
#1	48.154	4.0993	.36883	18.612	.55864
#2	48.078	4.1011	.36786	18.637	.55868
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.08**	**.65100**	**19.452**	**.25330**	**.33881**
Stddev	.01	.00075	.026	.00311	.00179
%RSD	.0219	.11451	.13336	1.2259	.52724
#1	27.08	.65153	19.471	.25550	.34007
#2	27.07	.65048	19.434	.25111	.33755
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.608**	**.51382**	**.54520**	**1.095**	**2.7301**
Stddev	.035	.00193	.00031	.000	.0041
%RSD	.24083	.37465	.05600	.0326	.15110
#1	14.633	.51246	.54498	1.094	2.7330
#2	14.583	.51518	.54541	1.095	2.7272
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-4-B MS Acquired: 6/9/2022 19:08:01 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.37897**	**.77825**	**1.2409**	**1.058**
Stddev	.00266	.00016	.0055	.000
%RSD	.70299	.02012	.44214	.0348
#1	.38085	.77836	1.2448	1.058
#2	.37708	.77814	1.2370	1.058
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3348.1**	**3645.7**	**72626.**	**6460.7**
Stddev	1.4	8.2	107.	.6
%RSD	.04203	.22529	.14747	.00883
#1	3347.1	3639.9	72550.	6460.3
#2	3349.1	3651.5	72701.	6461.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.962%	103.23%	100.67%	105.43%
Range				

Sample Name: CCV-7024752 Acquired: 6/9/2022 19:11:50 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0136**	**50.655**	**1.0199**	**1.0414**	**1.0116**
Stddev	.0008	.217	.0018	.0035	.0024
%RSD	.07715	.42828	.17231	.33572	.23561
#1	1.0130	50.808	1.0211	1.0389	1.0133
#2	1.0141	50.501	1.0186	1.0439	1.0099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0104**	**51.213**	**1.0234**	**.9833**	**1.0152**
Stddev	.0053	.284	.0009	.0076	.0011
%RSD	.52491	.55452	.09169	.7780	.10589
#1	1.0141	51.413	1.0227	.9887	1.0144
#2	1.0066	51.012	1.0240	.9779	1.0159
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0304**	**1.0201**	**51.747**	**51.425**	**1.0042**
Stddev	.0004	.0015	.306	.229	.0035
%RSD	.03974	.14858	.59065	.44597	.34923
#1	1.0301	1.0190	51.963	51.587	1.0067
#2	1.0307	1.0212	51.531	51.263	1.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 19:11:50 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.654**	**1.0351**	**1.0227**	**51.003**	**1.0233**
Stddev	.080	.0018	.0035	.161	.0010
%RSD	.15401	.17648	.33928	.31588	.09350
#1	51.597	1.0338	1.0251	51.117	1.0226
#2	51.710	1.0364	1.0202	50.889	1.0240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.87**	**1.0239**	**25.535**	**1.0155**	**1.0139**
Stddev	.00	.0011	.024	.0004	.0101
%RSD	.0114	.10838	.09328	.04347	.99206
#1	37.87	1.0231	25.518	1.0151	1.0210
#2	37.88	1.0246	25.552	1.0158	1.0068
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.230**	**1.0184**	**1.0187**	**1.517**	**1.0227**
Stddev	.072	.0023	.0049	.007	.0006
%RSD	.70508	.22274	.47836	.4509	.05333
#1	10.281	1.0168	1.0221	1.522	1.0224
#2	10.179	1.0200	1.0152	1.512	1.0231
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 19:11:50 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0327**	**1.0298**	**1.0618**	**1.512**
Stddev	.0001	.0023	.0007	.002
%RSD	.01092	.22331	.06189	.1224
#1	1.0327	1.0282	1.0613	1.514
#2	1.0328	1.0314	1.0622	1.511
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3396.1**	**3328.9**	**66521.**	**5751.2**
Stddev	10.3	8.0	79.	24.2
%RSD	.30296	.24115	.11900	.42095
#1	3403.4	3334.6	66577.	5734.1
#2	3388.9	3323.3	66465.	5768.3

Sample Name: CCB-7026764 Acquired: 6/9/2022 19:15:31 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**-.00846**	**.00115**	**.00296**	**.00003**
Stddev	.00010	.01138	.00017	.00010	.00001
%RSD	19.074	134.51	14.460	3.2164	49.242
#1	-.00058	-.01651	.00103	.00290	.00004
#2	-.00044	-.00041	.00127	.00303	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00188**	**-.00002**	**-.0156**	**.00000**
Stddev	.00000	.00325	.00001	.0053	.00009
%RSD	4.0403	172.51	73.951	33.86	135320.
#1	.00005	-.00041	-.00001	-.0119	.00007
#2	.00005	.00418	-.00002	-.0194	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00012**	**.01304**	**.16630**	**-.00018**
Stddev	.00022	.00006	.00418	.02104	.00097
%RSD	75.066	54.808	32.033	12.651	536.83
#1	-.00014	.00007	.01008	.18117	.00050
#2	-.00044	.00016	.01599	.15142	-.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 19:15:31 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**.00006**	**.00234**	**.02449**	**-.00009**
Stddev	.00009	.00002	.00053	.00592	.00004
%RSD	10.230	34.199	22.826	24.174	45.416
#1	.00083	.00005	.00196	.02867	-.00006
#2	.00096	.00008	.00271	.02030	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00003**	**-.01160**	**.00116**	**.00390**
Stddev	.00	.00075	.00187	.00001	.00238
%RSD	.0064	2229.6	16.140	.83879	60.936
#1	25.00	.00057	-.01027	.00116	.00222
#2	25.00	-.00050	-.01292	.00117	.00558
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00129**	**-.00024**	**.00005**	**1.0000**	**.00054**
Stddev	.00970	.00060	.00002	.0024	.00022
%RSD	754.58	253.13	52.828	.2405	41.190
#1	-.00815	-.00066	.00003	1.002	.00039
#2	.00557	.00019	.00006	.9983	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 19:15:31 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00157**	**-.00016**	**.00043**	**.9997**
Stddev	.00020	.00016	.00003	.0005
%RSD	12.658	102.68	6.4452	.0528
#1	.00172	-.00004	.00041	1.000
#2	.00143	-.00027	.00045	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4015.8**	**3539.9**	**72093.**	**5997.0**
Stddev	1.8	2.5	35.	18.9
%RSD	.04510	.06974	.04908	.31568
#1	4017.0	3541.6	72068.	5983.7
#2	4014.5	3538.1	72118.	6010.4

Sample Name: CCVL-7019501 Acquired: 6/9/2022 19:19:25 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00535**	**.17951**	**.01399**	**.02151**	**.00204**
Stddev	.00007	.01646	.00086	.00039	.00001
%RSD	1.3595	9.1704	6.1389	1.8164	.71403
#1	.00529	.19115	.01339	.02178	.00205
#2	.00540	.16787	.01460	.02123	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00201**	**.49247**	**.00201**	**-.0085**	**.00373**
Stddev	.00010	.00029	.00006	.0186	.00006
%RSD	4.9519	.05937	2.9633	219.4	1.6263
#1	.00208	.49226	.00206	-.0216	.00378
#2	.00194	.49268	.00197	.0047	.00369
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00338**	**.01090**	**.05068**	**.56452**	**.02862**
Stddev	.00018	.00060	.00200	.00718	.00074
%RSD	5.4366	5.5431	3.9438	1.2710	2.5915
#1	.00352	.01047	.04927	.55944	.02810
#2	.00325	.01133	.05210	.56959	.02915
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7019501 Acquired: 6/9/2022 19:19:25 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19835**	**.00301**	**.00914**	**.96221**	**.00951**
Stddev	.00267	.00004	.00010	.00455	.00008
%RSD	1.3446	1.1989	1.0771	.47269	.80652
#1	.19647	.00303	.00907	.96543	.00946
#2	.20024	.00298	.00921	.95899	.00957
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00954**	**.17082**	**.01877**	**.02029**
Stddev	.00	.00035	.00238	.00041	.00859
%RSD	.0028	3.6817	1.3960	2.1826	42.348
#1	25.00	.00929	.16914	.01906	.01421
#2	25.00	.00979	.17251	.01848	.02636
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45436**	**.00842**	**.00500**	F **.9929**	**.00444**
Stddev	.00721	.00045	.00003	.0009	.00005
%RSD	1.5871	5.3139	.68548	.0862	1.1129
#1	.45945	.00811	.00503	.9923	.00448
#2	.44926	.00874	.00498	.9935	.00441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7019501 Acquired: 6/9/2022 19:19:25 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02006**	**.00486**	**.00829**	F **.9998**
Stddev	.00051	.00048	.00024	.0001
%RSD	2.5278	9.8003	2.8831	.0141
#1	.01970	.00519	.00812	.9999
#2	.02042	.00452	.00846	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3980.6**	**3528.5**	**71579.**	**6015.2**
Stddev	1.3	2.2	105.	4.4
%RSD	.03272	.06234	.14659	.07251
#1	3979.7	3530.0	71653.	6018.3
#2	3981.6	3526.9	71505.	6012.1

Sample Name: 480-198658-A-4-C MSD Acquired: 6/9/2022 19:23:17 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.09176	230.97	.41562	.59673	1.2713
Stddev	.00059	.55	.00096	.00074	.0021
%RSD	.64625	.23992	.23088	.12331	.16741
#1	.09134	230.58	.41630	.59725	1.2697
#2	.09218	231.36	.41494	.59621	1.2728
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.37380	46.224	.35960	.3305	.47992
Stddev	.00093	.153	.00045	.0126	.00027
%RSD	.24908	.33100	.12526	3.809	.05697
#1	.37314	46.116	.35992	.3394	.48012
#2	.37445	46.332	.35928	.3216	.47973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.60934	.57018	188.90	65.562	.56139
Stddev	.00063	.00220	.73	.141	.00120
%RSD	.10342	.38592	.38826	.21479	.21424
#1	.60978	.57173	188.39	65.462	.56054
#2	.60889	.56862	189.42	65.661	.56224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-4-C MSD Acquired: 6/9/2022 19:23:17 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.283**	**4.1083**	**.38715**	**19.547**	**.59693**
Stddev	.006	.0000	.00035	.059	.00017
%RSD	.01162	.00094	.09044	.30054	.02833
#1	51.279	4.1084	.38740	19.506	.59705
#2	51.287	4.1083	.38690	19.589	.59681
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.28**	**.68271**	**20.820**	**.27480**	**.36575**
Stddev	.00	.00109	.014	.00082	.00006
%RSD	.0105	.16032	.06804	.29684	.01584
#1	27.28	.68348	20.830	.27538	.36571
#2	27.28	.68193	20.810	.27423	.36579
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.994**	**.55030**	**.58038**	**1.097**	**3.0016**
Stddev	.026	.00230	.00143	.000	.0017
%RSD	.15490	.41873	.24622	.0024	.05600
#1	17.013	.55193	.57937	1.097	3.0004
#2	16.975	.54867	.58139	1.097	3.0028
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-4-C MSD Acquired: 6/9/2022 19:23:17 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.40024**	**.83725**	**1.3159**	**1.060**
Stddev	.00076	.00124	.0037	.000
%RSD	.19102	.14792	.27896	.0334
#1	.40078	.83637	1.3133	1.060
#2	.39970	.83813	1.3185	1.061
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3310.0**	**3649.0**	**72756.**	**6505.3**
Stddev	8.8	5.8	129.	8.5
%RSD	.26708	.16024	.17759	.13128
#1	3303.7	3644.9	72664.	6511.3
#2	3316.2	3653.1	72847.	6499.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.005%	103.32%	100.85%	106.16%
Range				

Sample Name: 480-198658-A-5-A Acquired: 6/9/2022 19:27:05 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**163.83**	**.07670**	**.12163**	**.53720**
Stddev	.00014	.10	.00132	.00062	.00045
%RSD	36.152	.06129	1.7252	.50683	.08390
#1	-.00028	163.90	.07576	.12119	.53688
#2	-.00048	163.76	.07763	.12206	.53752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00566**	**13.042**	**.00285**	**.2111**	**.05710**
Stddev	.00008	.021	.00004	.0182	.00040
%RSD	1.3989	.15820	1.5550	8.622	.70387
#1	.00571	13.057	.00288	.1982	.05682
#2	.00560	13.027	.00282	.2239	.05739
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19919**	**.15197**	**196.74**	**23.515**	**.18019**
Stddev	.00019	.00061	.28	.012	.00090
%RSD	.09621	.40115	.13985	.05152	.50002
#1	.19905	.15154	196.93	23.523	.18083
#2	.19932	.15240	196.54	23.506	.17955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-5-A Acquired: 6/9/2022 19:27:05 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.833**	**1.5094**	**.06376**	**.50987**	**.14350**
Stddev	.032	.0028	.00011	.00097	.00062
%RSD	.15893	.18314	.16508	.18943	.42857
#1	19.811	1.5075	.06368	.50918	.14394
#2	19.855	1.5114	.06383	.51055	.14307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.33**	**.31218**	**2.6747**	**.00867**	**.00351**
Stddev	.00	.00009	.0050	.00163	.00080
%RSD	.0033	.02951	.18861	18.782	22.646
#1	26.33	.31212	2.6783	.00983	.00408
#2	26.33	.31225	2.6712	.00752	.00295
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.5835**	**.06025**	**.08244**	**1.094**	**.64542**
Stddev	.0060	.00030	.00018	.004	.00668
%RSD	.06996	.49043	.21243	.3729	1.0356
#1	8.5877	.06046	.08256	1.091	.64069
#2	8.5792	.06004	.08231	1.097	.65014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-5-A Acquired: 6/9/2022 19:27:05 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00432**	**.60391**	**.97428**	**1.013**
Stddev	.00069	.00129	.00252	.001
%RSD	16.016	.21398	.25852	.0853
#1	.00383	.60300	.97250	1.012
#2	.00481	.60483	.97606	1.014
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3524.4**	**3617.2**	**71959.**	**6344.9**
Stddev	.5	4.0	39.	.0
%RSD	.01473	.11147	.05407	.00010
#1	3524.7	3620.1	71987.	6344.9
#2	3524.0	3614.4	71932.	6344.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.381%	102.42%	99.742%	103.54%
Range				

Sample Name: 480-198658-A-8-A Acquired: 6/9/2022 19:30:51 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**171.66**	**.08615**	**.12714**	**.69685**
Stddev	.00014	.06	.00008	.00008	.00078
%RSD	21.764	.03762	.09664	.06102	.11154
#1	-.00072	171.61	.08609	.12708	.69630
#2	-.00053	171.70	.08621	.12719	.69740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00724**	**15.305**	**.00549**	**.1887**	**.08130**
Stddev	.00002	.038	.00013	.0071	.00023
%RSD	.28790	.24779	2.3456	3.764	.28627
#1	.00723	15.278	.00540	.1937	.08147
#2	.00726	15.332	.00559	.1836	.08114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21799**	**.13821**	**217.45**	**23.418**	**.21192**
Stddev	.00053	.00142	.10	.090	.00155
%RSD	.24126	1.0254	.04383	.38640	.72921
#1	.21762	.13721	217.51	23.354	.21301
#2	.21836	.13921	217.38	23.482	.21082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-8-A Acquired: 6/9/2022 19:30:51 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.183**	**3.9138**	**.07083**	**.68510**	**.18262**
Stddev	.033	.0026	.00039	.00308	.00015
%RSD	.16398	.06724	.55658	.45015	.08173
#1	20.207	3.9157	.07111	.68728	.18273
#2	20.160	3.9120	.07056	.68292	.18252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.86**	**.36271**	**3.0621**	**.00751**	**.00486**
Stddev	.00	.00073	.0046	.00174	.00386
%RSD	.0041	.20022	.14874	23.173	79.484
#1	26.86	.36323	3.0653	.00628	.00213
#2	26.86	.36220	3.0589	.00874	.00758
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.9838**	**.06051**	**.08963**	**1.104**	**.65463**
Stddev	.0365	.00046	.00039	.004	.00771
%RSD	.52248	.76089	.43498	.3596	1.1785
#1	7.0096	.06084	.08935	1.107	.64917
#2	6.9580	.06019	.08990	1.102	.66008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-8-A Acquired: 6/9/2022 19:30:51 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00630**	**.61849**	**1.2646**	**1.011**
Stddev	.00078	.00005	.0081	.000
%RSD	12.429	.00845	.64038	.0142
#1	.00574	.61853	1.2704	1.011
#2	.00685	.61845	1.2589	1.011
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3499.2**	**3649.5**	**72714.**	**6367.8**
Stddev	1.9	.7	56.	21.8
%RSD	.05529	.02034	.07684	.34292
#1	3497.8	3649.0	72674.	6383.3
#2	3500.6	3650.1	72753.	6352.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.750%	103.34%	100.79%	103.92%
Range				

Sample Name: 480-198658-A-9-A Acquired: 6/9/2022 19:34:43 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**170.14**	**.07026**	**.12434**	**.69524**
Stddev	.00036	.34	.00099	.00030	.00235
%RSD	112.57	.20210	1.4079	.24241	.33772
#1	.00057	170.38	.06956	.12413	.69690
#2	.00007	169.90	.07096	.12456	.69358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00613**	**13.252**	**.00503**	**.2106**	**.05739**
Stddev	.00001	.014	.00008	.0068	.00013
%RSD	.11468	.10780	1.5812	3.210	.23418
#1	.00613	13.262	.00508	.2058	.05748
#2	.00614	13.241	.00497	.2153	.05729
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20996**	**.16380**	**175.64**	**21.965**	**.18937**
Stddev	.00111	.00041	.31	.053	.00148
%RSD	.52706	.25264	.17628	.24033	.78160
#1	.21075	.16409	175.42	22.002	.19042
#2	.20918	.16351	175.86	21.927	.18832
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-9-A Acquired: 6/9/2022 19:34:43 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.623**	**1.6864**	**.05236**	**.74631**	**.17672**
Stddev	.013	.0017	.00012	.00162	.00060
%RSD	.06734	.10164	.22428	.21705	.33693
#1	19.633	1.6876	.05244	.74517	.17714
#2	19.614	1.6851	.05228	.74746	.17630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.59**	**.49671**	**2.7290**	**.00623**	**.00262**
Stddev	.00	.00094	.0081	.00151	.00386
%RSD	.0066	.19023	.29539	24.317	147.27
#1	26.59	.49738	2.7233	.00516	-.00011
#2	26.59	.49604	2.7347	.00730	.00535
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.2540**	**.06185**	**.10425**	**1.090**	**.69755**
Stddev	.0559	.00077	.00006	.003	.01003
%RSD	.89354	1.2504	.05911	.2768	1.4376
#1	6.2935	.06131	.10429	1.092	.70464
#2	6.2145	.06240	.10420	1.088	.69046
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-9-A Acquired: 6/9/2022 19:34:43 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00380**	**.59820**	**1.2840**	**1.011**
Stddev	.00140	.00233	.0006	.000
%RSD	36.887	.38999	.04837	.0081
#1	.00281	.59985	1.2844	1.012
#2	.00479	.59655	1.2836	1.011
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3511.4**	**3639.2**	**72379.**	**6305.2**
Stddev	9.5	10.1	236.	7.6
%RSD	.27005	.27627	.32554	.12004
#1	3504.7	3632.1	72212.	6299.8
#2	3518.1	3646.3	72546.	6310.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.056%	103.05%	100.32%	102.89%
Range				

Sample Name: 480-198658-A-12-A Acquired: 6/9/2022 19:38:30 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**140.64**	**.06492**	**.09381**	**.55139**
Stddev	.00011	.34	.00345	.00038	.00675
%RSD	20.332	.24188	5.3155	.40435	1.2249
#1	-.00048	140.88	.06248	.09408	.54661
#2	-.00064	140.40	.06736	.09354	.55616
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00504**	**8.6721**	**.00320**	**.1578**	**.04731**
Stddev	.00008	.0139	.00003	.0007	.00026
%RSD	1.5879	.16073	.88678	.4525	.54731
#1	.00498	8.6819	.00322	.1573	.04713
#2	.00509	8.6622	.00318	.1583	.04750
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.16795**	**.13655**	**157.42**	**18.151**	**.14786**
Stddev	.00026	.00013	.42	.052	.00071
%RSD	.15272	.09751	.26630	.28509	.47924
#1	.16814	.13645	157.71	18.188	.14736
#2	.16777	.13664	157.12	18.115	.14836
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-12-A Acquired: 6/9/2022 19:38:30 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.385**	**2.1478**	**.04544**	**.53814**	**.12724**
Stddev	.020	.0009	.00020	.00007	.00020
%RSD	.12235	.04281	.43712	.01323	.15553
#1	16.400	2.1484	.04559	.53809	.12710
#2	16.371	2.1471	.04530	.53819	.12738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.29**	**.37854**	**2.5168**	**.00396**	**.00440**
Stddev	.00	.00089	.0005	.00075	.00269
%RSD	.0009	.23428	.01916	19.035	61.063
#1	26.29	.37916	2.5172	.00449	.00631
#2	26.29	.37791	2.5165	.00342	.00250
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.2683**	**.05708**	**.06253**	**1.080**	**.61913**
Stddev	.0104	.00033	.00036	.002	.00534
%RSD	.12581	.57818	.57339	.1879	.86233
#1	8.2757	.05731	.06227	1.081	.62291
#2	8.2610	.05685	.06278	1.078	.61536
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-12-A Acquired: 6/9/2022 19:38:30 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00637**	**.50760**	**.90634**	**1.010**
Stddev	.00123	.00013	.00196	.001
%RSD	19.345	.02494	.21640	.0691
#1	.00550	.50769	.90773	1.010
#2	.00724	.50751	.90496	1.009
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3580.7**	**3639.0**	**72708.**	**6374.4**
Stddev	3.1	3.2	28.	38.7
%RSD	.08623	.08719	.03890	.60680
#1	3578.5	3636.8	72688.	6347.1
#2	3582.9	3641.3	72728.	6401.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.793%	103.04%	100.78%	104.02%
Range				

Sample Name: 480-198658-A-15-A Acquired: 6/9/2022 19:42:18 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**110.14**	**.05551**	**.10581**	**.55410**
Stddev	.00088	.34	.00226	.00081	.00128
%RSD	5239.2	.30541	4.0695	.76682	.23073
#1	-.00064	110.38	.05711	.10639	.55500
#2	.00061	109.90	.05392	.10524	.55320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00523**	**18.530**	**.01088**	**.1761**	**.09847**
Stddev	.00007	.067	.00016	.0029	.00037
%RSD	1.2795	.35941	1.4273	1.662	.37625
#1	.00527	18.577	.01099	.1740	.09873
#2	.00518	18.483	.01077	.1782	.09821
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14147**	**.29484**	**119.75**	**18.000**	**.13627**
Stddev	.00073	.00096	.06	.031	.00130
%RSD	.51399	.32561	.04654	.17113	.95104
#1	.14095	.29416	119.79	18.022	.13718
#2	.14198	.29552	119.71	17.978	.13535
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-15-A Acquired: 6/9/2022 19:42:18 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.520**	**3.7939**	**.06123**	**.58386**	**.22499**
Stddev	.031	.0070	.00004	.00116	.00009
%RSD	.19834	.18431	.06350	.19814	.03918
#1	15.498	3.7890	.06125	.58304	.22505
#2	15.542	3.7989	.06120	.58468	.22493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.58**	**.60084**	**2.8734**	**.00409**	**-.00288**
Stddev	.00	.00056	.0047	.00138	.00302
%RSD	.0128	.09266	.16412	33.865	104.86
#1	26.59	.60045	2.8768	.00506	-.00502
#2	26.58	.60124	2.8701	.00311	-.00075
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.8067**	**.05753**	**.08664**	**1.059**	**.57108**
Stddev	.0242	.00072	.00008	.004	.00831
%RSD	.35474	1.2448	.09010	.3749	1.4556
#1	6.8238	.05702	.08669	1.062	.57696
#2	6.7896	.05804	.08658	1.056	.56520
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-15-A Acquired: 6/9/2022 19:42:18 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00422**	**.39476**	**1.1608**	**1.009**
Stddev	.00111	.00107	.0015	.001
%RSD	26.407	.27045	.13246	.0617
#1	.00343	.39401	1.1597	1.008
#2	.00501	.39552	1.1619	1.009
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3590.9**	**3721.0**	**74362.**	**6629.6**
Stddev	1.4	1.4	1.	3.6
%RSD	.03889	.03640	.00123	.05399
#1	3589.9	3720.0	74361.	6627.0
#2	3591.9	3721.9	74362.	6632.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.050%	105.36%	103.07%	108.19%
Range				

Sample Name: 480-198658-A-17-A Acquired: 6/9/2022 19:46:10 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**94.450**	**.08043**	**.09655**	**.38296**
Stddev	.00033	.320	.00101	.00029	.00008
%RSD	216.58	.33832	1.2571	.29819	.01995
#1	-.00039	94.224	.07971	.09634	.38302
#2	.00008	94.676	.08114	.09675	.38291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00534**	**23.494**	**.00632**	**.2324**	**.07381**
Stddev	.00000	.055	.00006	.0108	.00013
%RSD	.01525	.23282	.87802	4.656	.17025
#1	.00534	23.455	.00628	.2401	.07389
#2	.00534	23.532	.00636	.2248	.07372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.13211**	**.30036**	**179.18**	**15.246**	**.15927**
Stddev	.00100	.00097	.45	.056	.00150
%RSD	.75454	.32320	.25021	.36467	.94182
#1	.13140	.29967	178.86	15.207	.16033
#2	.13281	.30104	179.50	15.285	.15821
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-17-A Acquired: 6/9/2022 19:46:10 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.106**	**2.1532**	**.05614**	**.45238**	**.31803**
Stddev	.048	.0047	.00040	.00135	.00053
%RSD	.21580	.21732	.70848	.29789	.16674
#1	22.072	2.1499	.05642	.45143	.31840
#2	22.140	2.1565	.05586	.45333	.31765
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.66**	**.22089**	**2.6279**	**.00567**	**.00120**
Stddev	.00	.00073	.0068	.00033	.00492
%RSD	.0052	.33183	.26017	5.8838	410.70
#1	26.66	.22141	2.6327	.00591	.00468
#2	26.66	.22037	2.6230	.00544	-.00228
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.059**	**.05263**	**.07982**	**1.086**	**.60017**
Stddev	.014	.00163	.00044	.001	.00526
%RSD	.09639	3.0966	.54726	.1310	.87569
#1	14.049	.05148	.07951	1.087	.59646
#2	14.068	.05378	.08013	1.085	.60389
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-17-A Acquired: 6/9/2022 19:46:10 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00326**	**.28973**	**.89984**	**1.030**
Stddev	.00181	.00069	.00399	.000
%RSD	55.483	.23870	.44360	.0409
#1	.00454	.28924	.89702	1.031
#2	.00198	.29022	.90267	1.030
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3550.5**	**3846.2**	**77371.**	**6741.7**
Stddev	3.3	1.4	15.	38.4
%RSD	.09165	.03708	.01890	.56917
#1	3552.8	3847.2	77381.	6768.8
#2	3548.2	3845.1	77360.	6714.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.036%	108.91%	107.24%	110.02%
Range				

Sample Name: 480-198658-A-19-A Acquired: 6/9/2022 19:49:57 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**130.29**	**.09086**	**.11091**	**.48959**
Stddev	.00030	.19	.00108	.00001	.00083
%RSD	32.011	.14662	1.1864	.00667	.16895
#1	-.00073	130.42	.09162	.11091	.49017
#2	-.00116	130.15	.09010	.11092	.48900
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00574**	**11.752**	**.00317**	**.1543**	**.07853**
Stddev	.00005	.023	.00011	.0110	.00001
%RSD	.87960	.19908	3.3187	7.149	.00668
#1	.00578	11.768	.00324	.1465	.07854
#2	.00570	11.735	.00310	.1621	.07853
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.16660**	**.13685**	**162.86**	**20.654**	**.14928**
Stddev	.00031	.00007	.18	.022	.00058
%RSD	.18759	.04919	.10831	.10456	.38758
#1	.16637	.13689	162.74	20.669	.14887
#2	.16682	.13680	162.99	20.638	.14969
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-19-A Acquired: 6/9/2022 19:49:57 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.954**	**7.2502**	**.05220**	**.46669**	**.13690**
Stddev	.022	.0144	.00025	.00328	.00028
%RSD	.12208	.19839	.48405	.70181	.20623
#1	17.938	7.2604	.05203	.46437	.13670
#2	17.969	7.2401	.05238	.46900	.13710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.24**	**.41383**	**2.3953**	**.00528**	**.00431**
Stddev	.00	.00060	.0094	.00158	.00284
%RSD	.0061	.14521	.39177	29.903	66.001
#1	26.23	.41426	2.3886	.00640	.00632
#2	26.24	.41341	2.4019	.00417	.00230
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.9298**	**.05551**	**.06927**	**1.086**	**.61547**
Stddev	.1427	.00160	.00018	.001	.00562
%RSD	1.5981	2.8739	.25610	.0539	.91277
#1	9.0307	.05663	.06915	1.086	.61149
#2	8.8289	.05438	.06940	1.085	.61944
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-19-A Acquired: 6/9/2022 19:49:57 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00330**	**.46189**	**.87641**	**1.009**
Stddev	.00014	.00017	.00010	.000
%RSD	4.3407	.03772	.01145	.0332
#1	.00340	.46177	.87634	1.009
#2	.00320	.46202	.87648	1.010
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3571.8**	**3653.8**	**73026.**	**6441.0**
Stddev	3.9	4.0	201.	11.1
%RSD	.10907	.11020	.27486	.17215
#1	3569.0	3651.0	72884.	6448.8
#2	3574.6	3656.6	73168.	6433.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.571%	103.46%	101.22%	105.11%
Range				

Sample Name: LB 480-629221/1-B Acquired: 6/9/2022 19:53:49 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**-.00141**	**-.00114**	**.01318**	**.00043**
Stddev	.00044	.00386	.00133	.00012	.00004
%RSD	88.261	273.31	116.83	.88633	8.3624
#1	-.00019	-.00414	-.00208	.01326	.00041
#2	-.00080	.00132	-.00020	.01310	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.10987**	**.00006**	**.0094**	**-.00022**
Stddev	.00008	.00201	.00005	.0250	.00021
%RSD	132.47	1.8249	82.277	266.1	95.986
#1	-.00011	.11129	.00009	-.0083	-.00036
#2	-.00000	.10846	.00002	.0270	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00299**	**-.00001**	**.01999**	**1.6594**	**.00495**
Stddev	.00013	.00065	.00375	.0134	.00011
%RSD	4.5060	12950.	18.788	.80752	2.2369
#1	.00309	.00046	.01733	1.6500	.00487
#2	.00290	-.00047	.02264	1.6689	.00503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LB 480-629221/1-B Acquired: 6/9/2022 19:53:49 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03045**	**.00023**	**-.00166**	F **1528.3**	**.00033**
Stddev	.00191	.00001	.00009	1.6	.00000
%RSD	6.2721	3.2620	5.4590	.10247	.95174
#1	.03180	.00023	-.00160	1527.2	.00033
#2	.02910	.00024	-.00173	1529.4	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				1.0000	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00051**	**.00139**	**.00275**	**-.00690**
Stddev	.00	.00102	.00068	.00171	.00231
%RSD	.0028	201.41	48.898	62.122	33.498
#1	25.00	.00022	.00186	.00396	-.00527
#2	25.00	-.00123	.00091	.00154	-.00854
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05136**	**.00022**	**.00045**	**.9976**	**-.00015**
Stddev	.00615	.00055	.00007	.0023	.00012
%RSD	11.971	244.20	16.157	.2335	82.288
#1	.05571	-.00016	.00050	.9992	-.00006
#2	.04701	.00061	.00040	.9959	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LB 480-629221/1-B Acquired: 6/9/2022 19:53:49 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00175**	**-.00039**	**-.00071**	**.9995**
Stddev	.00044	.00007	.00054	.0006
%RSD	25.242	18.371	76.277	.0593
#1	.00144	-.00034	-.00033	.9991
#2	.00206	-.00044	-.00109	1.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3043.0**	**3101.3**	**60963.**	**5749.1**
Stddev	.3	.6	50.	32.2
%RSD	.01087	.01863	.08281	.56026
#1	3042.7	3100.9	60998.	5771.9
#2	3043.2	3101.7	60927.	5726.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.309%	87.816%	84.500%	93.819%
Range				

Sample Name: CCV-7024752 Acquired: 6/9/2022 19:57:49 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0197**	**50.763**	**1.0168**	**1.0347**	**1.0042**
Stddev	.0036	.234	.0007	.0016	.0031
%RSD	.35520	.46083	.06875	.15326	.30960
#1	1.0223	50.928	1.0173	1.0336	1.0064
#2	1.0171	50.597	1.0163	1.0358	1.0020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0068**	**51.220**	**1.0187**	**1.001**	**1.0063**
Stddev	.0041	.263	.0007	.025	.0006
%RSD	.40694	.51252	.07246	2.544	.05983
#1	1.0097	51.406	1.0192	1.019	1.0067
#2	1.0039	51.035	1.0182	.9827	1.0058
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0333**	**1.0254**	**51.308**	**51.133**	**1.0065**
Stddev	.0003	.0005	.298	.169	.0044
%RSD	.03095	.05103	.58002	.33043	.43740
#1	1.0335	1.0251	51.519	51.253	1.0096
#2	1.0331	1.0258	51.098	51.014	1.0034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 19:57:49 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.655**	**1.0336**	**1.0204**	**50.937**	**1.0171**
Stddev	.129	.0023	.0040	.206	.0013
%RSD	.24977	.22206	.39081	.40520	.12681
#1	51.746	1.0353	1.0232	51.083	1.0162
#2	51.564	1.0320	1.0175	50.791	1.0180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.81**	**1.0159**	**25.487**	**1.0209**	**1.0138**
Stddev	.00	.0007	.011	.0013	.0017
%RSD	.0003	.06448	.04190	.12528	.16720
#1	37.81	1.0164	25.479	1.0219	1.0150
#2	37.81	1.0155	25.494	1.0200	1.0127
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.165**	**1.0063**	**1.0132**	**1.509**	**1.0235**
Stddev	.028	.0013	.0037	.005	.0017
%RSD	.27706	.12872	.36791	.3286	.16202
#1	10.185	1.0073	1.0158	1.513	1.0246
#2	10.145	1.0054	1.0106	1.506	1.0223
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 19:57:49 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0258**	**1.0290**	**1.0437**	**1.511**
Stddev	.0013	.0028	.0021	.001
%RSD	.12425	.27557	.20505	.0511
#1	1.0267	1.0310	1.0452	1.511
#2	1.0249	1.0270	1.0422	1.510
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3402.7**	**3319.5**	**66528.**	**5758.1**
Stddev	.0	1.8	10.	40.0
%RSD	.00136	.05348	.01549	.69514
#1	3402.7	3320.8	66535.	5729.8
#2	3402.7	3318.3	66521.	5786.4

Sample Name: CCB-7026764 Acquired: 6/9/2022 20:01:29 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**-.02086**	**.00111**	**.00075**	**.00002**
Stddev	.00005	.01127	.00190	.00025	.00000
%RSD	11.825	54.002	170.70	33.505	15.421
#1	-.00048	-.01290	-.00023	.00057	.00002
#2	-.00040	-.02883	.00246	.00092	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.00105**	**.00016**	**.0212**	**-.00003**
Stddev	.00000	.00162	.00023	.0077	.00004
%RSD	84.291	154.92	145.54	36.20	111.76
#1	-.00001	-.00010	.00032	.0158	-.00006
#2	-.00000	.00220	-.00000	.0266	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.00019**	**.01169**	**.09227**	**.00134**
Stddev	.00003	.00045	.00226	.00257	.00099
%RSD	10.965	233.56	19.351	2.7860	73.593
#1	-.00025	.00051	.01009	.09046	.00204
#2	-.00030	-.00013	.01328	.09409	.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 20:01:29 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.00005**	**.00237**	**.07284**	**.00015**
Stddev	.00230	.00001	.00048	.00182	.00022
%RSD	1169.8	18.624	20.100	2.5020	148.20
#1	-.00183	.00006	.00203	.07413	.00031
#2	.00143	.00005	.00270	.07156	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00114**	**-.01430**	**-.00054**	**.00322**
Stddev	.00	.00023	.00495	.00137	.00017
%RSD	.0047	20.513	34.633	254.43	5.4152
#1	25.00	-.00131	-.01080	.00043	.00334
#2	25.00	-.00098	-.01780	-.00150	.00310
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02284**	**-.00005**	**-.00002**	**.9942**	**.00048**
Stddev	.00504	.00030	.00006	.0071	.00002
%RSD	22.056	642.33	287.07	.7191	3.6716
#1	-.02640	-.00026	.00002	.9891	.00047
#2	-.01928	.00017	-.00007	.9992	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 20:01:29 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00190**	**-.00050**	**-.00055**	**.9997**
Stddev	.00014	.00001	.00014	.0004
%RSD	7.5341	1.3571	25.433	.0379
#1	.00180	-.00050	-.00064	.9999
#2	.00201	-.00051	-.00045	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4022.2**	**3540.4**	**72241.**	**5988.2**
Stddev	9.2	6.0	166.	17.7
%RSD	.22918	.16977	.22932	.29623
#1	4015.7	3536.2	72358.	5975.7
#2	4028.8	3544.7	72123.	6000.8

Sample Name: CCVL-7019501 Acquired: 6/9/2022 20:05:23 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00510**	**.18154**	**.01157**	**.01940**	**.00207**
Stddev	.00041	.03078	.00253	.00011	.00001
%RSD	8.0657	16.953	21.895	.57363	.35067
#1	.00539	.15978	.01336	.01932	.00208
#2	.00481	.20330	.00978	.01948	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**.50466**	**.00204**	**-.0279**	**.00379**
Stddev	.00004	.00203	.00009	.0135	.00005
%RSD	1.9445	.40171	4.3443	48.17	1.3414
#1	.00205	.50323	.00197	-.0184	.00383
#2	.00210	.50609	.00210	-.0374	.00376
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00357**	**.01060**	**.05549**	**.52156**	**.02893**
Stddev	.00039	.00028	.00044	.04002	.00108
%RSD	10.932	2.6669	.79531	7.6730	3.7207
#1	.00329	.01080	.05580	.49326	.02970
#2	.00384	.01040	.05518	.54986	.02817
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7019501 Acquired: 6/9/2022 20:05:23 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19470**	**.00308**	**.00933**	**1.0100**	**.00968**
Stddev	.00122	.00010	.00011	.0077	.00020
%RSD	.62631	3.2284	1.1277	.75882	2.0305
#1	.19556	.00315	.00925	1.0155	.00982
#2	.19384	.00301	.00940	1.0046	.00954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00969**	**.16869**	**.01904**	**.02326**
Stddev	.00	.00042	.00045	.00266	.00010
%RSD	.0050	4.3466	.26839	13.954	.43046
#1	25.00	.00939	.16901	.02092	.02319
#2	25.00	.00998	.16837	.01716	.02333
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45189**	**.00826**	**.00501**	F **.9985**	**.00452**
Stddev	.00883	.00012	.00008	.0066	.00004
%RSD	1.9547	1.4005	1.6550	.6607	.95142
#1	.44564	.00834	.00496	1.003	.00455
#2	.45813	.00818	.00507	.9939	.00449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7019501 Acquired: 6/9/2022 20:05:23 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02023**	**.00495**	**.00732**	F **.9997**
Stddev	.00006	.00032	.00032	.0010
%RSD	.31878	6.3621	4.3986	.0994
#1	.02018	.00473	.00709	1.000
#2	.02027	.00517	.00754	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3944.3**	**3499.5**	**71277.**	**5924.6**
Stddev	3.2	1.3	279.	18.2
%RSD	.08131	.03661	.39212	.30722
#1	3942.0	3498.5	71079.	5911.8
#2	3946.6	3500.4	71475.	5937.5

Sample Name: MB 480-629399/2-A Acquired: 6/9/2022 20:09:16 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**-.02900**	**-.00014**	**.00095**	**.00000**
Stddev	.00009	.00392	.00067	.00029	.00001
%RSD	41.294	13.531	490.35	30.815	310.32
#1	-.00028	-.03177	-.00061	.00074	.00001
#2	-.00015	-.02622	.00034	.00116	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.02041**	**-.00001**	**-.0259**	**-.00006**
Stddev	.00002	.00050	.00003	.0003	.00007
%RSD	2286.4	2.4282	524.23	1.137	125.34
#1	.00002	.02006	-.00003	-.0257	-.00011
#2	-.00002	.02076	.00002	-.0261	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00016**	**-.00012**	**.05916**	**.00085**
Stddev	.00012	.00023	.00047	.02174	.00127
%RSD	924.26	139.63	394.53	36.751	149.00
#1	-.00007	.00033	.00021	.04379	-.00005
#2	.00010	.00000	-.00045	.07454	.00175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629399/2-A Acquired: 6/9/2022 20:09:16 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00013**	**-.00111**	**.03381**	**-.00002**
Stddev	.00079	.00001	.00001	.00558	.00004
%RSD	1028.2	4.4963	.87539	16.516	182.51
#1	-.00064	.00012	-.00112	.03776	-.00005
#2	.00048	.00013	-.00110	.02986	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00121**	**-.01699**	**-.00091**	**-.00604**
Stddev	.00	.00055	.00302	.00113	.00044
%RSD	.0004	45.409	17.787	124.68	7.2469
#1	25.00	.00159	-.01485	-.00170	-.00573
#2	25.00	.00082	-.01913	-.00011	-.00635
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00628**	**-.00023**	**.00011**	**.9945**	**-.00056**
Stddev	.00685	.00087	.00001	.0018	.00009
%RSD	109.14	373.11	13.070	.1807	16.468
#1	.00143	.00038	.00010	.9932	-.00049
#2	.01112	-.00085	.00012	.9957	-.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629399/2-A Acquired: 6/9/2022 20:09:16 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00149**	**-.00045**	**-.00089**	**1.000**
Stddev	.00056	.00025	.00005	.000
%RSD	37.711	55.701	6.0334	.0105
#1	.00109	-.00063	-.00093	1.000
#2	.00189	-.00028	-.00085	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3988.5**	**3527.7**	**71459.**	**6020.7**
Stddev	3.3	5.2	255.	.8
%RSD	.08290	.14722	.35646	.01297
#1	3990.8	3531.3	71640.	6020.1
#2	3986.1	3524.0	71279.	6021.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.02%	99.888%	99.049%	98.251%
Range				

Sample Name: LCS 480-629399/3-A Acquired: 6/9/2022 20:13:09 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0377**	**.01198**	**1.0603**	**.01477**	**.93427**
Stddev	.0003	.00903	.0003	.00014	.00025
%RSD	.02526	75.386	.02976	.93847	.02647
#1	1.0378	.00559	1.0601	.01487	.93409
#2	1.0375	.01836	1.0606	.01468	.93444
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95968**	**.07986**	**1.0001**	**-.0567**	**1.0034**
Stddev	.00064	.00136	.0003	.0174	.0007
%RSD	.06686	1.7034	.02910	30.72	.07378
#1	.95923	.08082	.99986	-.0444	1.0040
#2	.96014	.07890	1.0003	-.0690	1.0029
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97747**	**1.0209**	**.00868**	**1.3678**	**.00531**
Stddev	.00015	.0019	.00133	.0194	.00030
%RSD	.01578	.18149	15.351	1.4174	5.5850
#1	.97736	1.0223	.00774	1.3815	.00552
#2	.97758	1.0196	.00963	1.3541	.00510
Check ?	Chk Pass	Chk Pass	None	None	None
High Limit					
Low Limit					

Sample Name: LCS 480-629399/3-A Acquired: 6/9/2022 20:13:09 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01626**	**1.0075**	**.98021**	**1489.5**	**.99452**
Stddev	.00057	.0004	.00123	.0	.00048
%RSD	3.4840	.04250	.12553	.00258	.04849
#1	.01586	1.0078	.98108	1489.5	.99486
#2	.01666	1.0072	.97934	1489.5	.99418
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.98842**	**-.01493**	**1.0080**	**1.0833**
Stddev	.00	.00260	.00189	.0014	.0012
%RSD	.0046	.26260	12.639	.13456	.10897
#1	25.00	.99025	-.01626	1.0090	1.0841
#2	25.01	.98658	-.01359	1.0070	1.0824
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit	1.200				
Low Limit	.8000				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02445**	**-.00013**	**.09602**	**.9925**	**-.00168**
Stddev	.01226	.00001	.00008	.0002	.00018
%RSD	50.128	5.4007	.07873	.0190	10.413
#1	.01578	-.00013	.09608	.9927	-.00181
#2	.03312	-.00014	.09597	.9924	-.00156
Check ?	None	None	None	Chk Pass	None
High Limit					
Low Limit					

Sample Name: LCS 480-629399/3-A Acquired: 6/9/2022 20:13:09 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.96038**	**1.0017**	**1.0300**	**.9990**
Stddev	.00025	.0006	.0050	.0006
%RSD	.02602	.06492	.48411	.0612
#1	.96020	1.0022	1.0335	.9986
#2	.96056	1.0012	1.0264	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3043.2**	**3115.4**	**61274.**	**5840.6**
Stddev	.5	.2	35.	18.0
%RSD	.01570	.00734	.05720	.30858
#1	3043.6	3115.2	61250.	5827.8
#2	3042.9	3115.5	61299.	5853.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.316%	88.214%	84.932%	95.312%
Range				

Sample Name: 480-198744-A-1-B Acquired: 6/9/2022 20:17:02 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00089**	**.25729**	**.00741**	**.14314**	**.08442**
Stddev	.00073	.00946	.00128	.00028	.00037
%RSD	82.774	3.6787	17.268	.19880	.43407
#1	-.00037	.26398	.00832	.14294	.08468
#2	-.00141	.25059	.00651	.14334	.08416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**54.872**	**.00026**	**-.0539**	**.00270**
Stddev	.00011	.065	.00020	.0065	.00001
%RSD	208.33	.11908	77.878	11.96	.47222
#1	-.00002	54.826	.00012	-.0585	.00269
#2	.00013	54.918	.00040	-.0494	.00271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00129**	**.00508**	**.34647**	**12.266**	**.00980**
Stddev	.00008	.00009	.00281	.016	.00088
%RSD	6.1721	1.8360	.81028	.12869	9.0102
#1	.00134	.00514	.34448	12.255	.01043
#2	.00123	.00501	.34845	12.277	.00918
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198744-A-1-B Acquired: 6/9/2022 20:17:02 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2397**	**3.5337**	**.00078**	F **1410.2**	**.01014**
Stddev	.0126	.0144	.00047	1.1	.00008
%RSD	.13671	.40798	60.827	.07479	.75849
#1	9.2487	3.5439	.00044	1409.5	.01009
#2	9.2308	3.5235	.00112	1411.0	.01020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**35.99**	**.00278**	**4.5640**	**.00645**	**-.00026**
Stddev	.02	.00109	.0099	.00168	.00210
%RSD	.0577	39.380	.21649	26.028	821.65
#1	36.01	.00200	4.5710	.00526	-.00174
#2	35.98	.00355	4.5570	.00764	.00123
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.65841**	**.00074**	**.14836**	**.9917**	**-.00062**
Stddev	.00142	.00075	.00044	.0037	.00026
%RSD	.21632	100.91	.29636	.3690	41.404
#1	.65942	.00127	.14867	.9943	-.00081
#2	.65740	.00021	.14805	.9892	-.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198744-A-1-B Acquired: 6/9/2022 20:17:02 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00071**	**.00036**	**.29666**	**.9988**
Stddev	.00021	.00078	.00100	.0004
%RSD	29.516	212.84	.33694	.0355
#1	.00056	.00091	.29736	.9991
#2	.00086	-.00018	.29595	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3019.3**	**3090.4**	**61450.**	**5811.0**
Stddev	1.2	.3	296.	26.6
%RSD	.03959	.01109	.48174	.45729
#1	3018.5	3090.1	61241.	5829.8
#2	3020.1	3090.6	61660.	5792.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.715%	87.506%	85.176%	94.829%
Range				

Sample Name: 480-198746-A-1-B Acquired: 6/9/2022 20:20:56 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00127**	**.87344**	**.00353**	**.10428**	**.43292**
Stddev	.00014	.01058	.00114	.00067	.00259
%RSD	11.210	1.2108	32.150	.63892	.59942
#1	-.00137	.88092	.00433	.10475	.43475
#2	-.00117	.86596	.00273	.10381	.43108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**38.522**	**.00200**	**-.0209**	**-.00001**
Stddev	.00006	.073	.00006	.0023	.00015
%RSD	38.289	.18907	2.7828	11.11	2068.0
#1	.00012	38.573	.00196	-.0193	.00010
#2	.00021	38.470	.00204	-.0226	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00252**	**.00223**	**.59470**	**3.1010**	**.01228**
Stddev	.00020	.00019	.00378	.0293	.00042
%RSD	7.8182	8.5988	.63526	.94559	3.4078
#1	.00266	.00209	.59203	3.0803	.01258
#2	.00239	.00236	.59737	3.1217	.01199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-1-B Acquired: 6/9/2022 20:20:56 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.1436**	**.05181**	**-.00128**	F **1466.8**	**.00676**
Stddev	.0054	.00004	.00005	3.6	.00019
%RSD	.10470	.07848	4.0023	.24331	2.8656
#1	5.1474	.05184	-.00131	1469.3	.00690
#2	5.1398	.05178	-.00124	1464.3	.00662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**.01915**	**.23886**	**.00371**	**-.00759**
Stddev	.00	.00123	.00137	.00114	.00332
%RSD	.0008	6.4395	.57439	30.739	43.784
#1	25.12	.01828	.23983	.00452	-.00994
#2	25.12	.02002	.23789	.00290	-.00524
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.2325**	**.00068**	**.15203**	**1.003**	**.02137**
Stddev	.0334	.00018	.00075	.007	.00179
%RSD	1.4972	26.849	.49129	.6541	8.3920
#1	2.2562	.00081	.15256	1.007	.02010
#2	2.2089	.00055	.15151	.9981	.02264
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-1-B Acquired: 6/9/2022 20:20:56 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00101**	**.00116**	**.10263**	**.9994**
Stddev	.00056	.00030	.00072	.0003
%RSD	55.526	25.658	.70593	.0308
#1	.00140	.00095	.10314	.9992
#2	.00061	.00138	.10211	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3018.2**	**3095.9**	**61296.**	**5782.6**
Stddev	.6	4.1	67.	18.0
%RSD	.02096	.13201	.10870	.31132
#1	3017.8	3093.0	61249.	5769.9
#2	3018.6	3098.8	61343.	5795.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.688%	87.663%	84.962%	94.366%
Range				

Sample Name: 480-198746-A-1-Bsd@5 Acquired: 6/9/2022 20:24:58 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.17294**	**.00115**	**.02204**	**.09441**
Stddev	.00003	.03570	.00044	.00021	.00027
%RSD	13.217	20.643	38.003	.94631	.28971
#1	-.00028	.14770	.00146	.02189	.09422
#2	-.00023	.19819	.00084	.02218	.09460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**8.2792**	**.00043**	**-.0069**	**-.00003**
Stddev	.00009	.0134	.00003	.0151	.00007
%RSD	115.85	.16187	6.2300	218.7	248.85
#1	.00001	8.2886	.00041	.0038	-.00007
#2	.00014	8.2697	.00045	-.0176	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00115**	**.12712**	**.71746**	**.00313**
Stddev	.00036	.00030	.00034	.00282	.00018
%RSD	11675.	25.904	.26905	.39244	5.6787
#1	.00026	.00136	.12688	.71547	.00326
#2	-.00025	.00094	.12737	.71945	.00300
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-1-Bsd@5 Acquired: 6/9/2022 20:24:58 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1290**	**.01081**	**-.00139**	**309.55**	**.00153**
Stddev	.0001	.00008	.00017	.46	.00007
%RSD	.00562	.73182	12.219	.14954	4.3580
#1	1.1289	.01075	-.00151	309.87	.00158
#2	1.1290	.01086	-.00127	309.22	.00148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00349**	**.02825**	**.00039**	**-.00862**
Stddev	.00	.00001	.00168	.00168	.00099
%RSD	.0010	.19975	5.9539	433.33	11.461
#1	25.03	.00349	.02706	.00158	-.00792
#2	25.03	.00350	.02943	-.00080	-.00932
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44474**	**.00003**	**.03217**	**.9980**	**.00581**
Stddev	.01331	.00172	.00013	.0010	.00368
%RSD	2.9935	5637.8	.38884	.0990	63.381
#1	.45415	-.00119	.03226	.9987	.00841
#2	.43533	.00125	.03208	.9973	.00320
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-1-Bsd@5 Acquired: 6/9/2022 20:24:58 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00092**	**.00037**	**.01860**	**.9989**
Stddev	.00213	.00017	.00008	.0002
%RSD	231.68	45.287	.42915	.0240
#1	.00243	.00049	.01854	.9988
#2	-.00059	.00025	.01866	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3319.9**	**3219.3**	**64491.**	**5667.4**
Stddev	4.7	1.1	4.	34.7
%RSD	.14272	.03494	.00685	.61257
#1	3323.3	3220.1	64494.	5691.9
#2	3316.5	3218.5	64488.	5642.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.254%	91.156%	89.390%	92.485%
Range				

Sample Name: 480-198746-A-1-BPDS Acquired: 6/9/2022 20:28:55 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0717**	**.90358**	**1.1128**	**.10551**	**1.4258**
Stddev	.0053	.00239	.0020	.00111	.0040
%RSD	.49237	.26484	.17867	1.0497	.27830
#1	1.0754	.90528	1.1142	.10472	1.4286
#2	1.0680	.90189	1.1114	.10629	1.4230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0307**	**37.976**	**1.0456**	**-.0337**	**1.0446**
Stddev	.0016	.041	.0005	.0060	.0005
%RSD	.15398	.10855	.04354	17.83	.04844
#1	1.0319	38.005	1.0453	-.0294	1.0449
#2	1.0296	37.947	1.0460	-.0379	1.0442
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0148**	**1.0636**	**.58832**	**2.9375**	**.01056**
Stddev	.0041	.0013	.00379	.0480	.00114
%RSD	.40284	.11936	.64341	1.6343	10.778
#1	1.0177	1.0645	.59099	2.9035	.00975
#2	1.0120	1.0627	.58564	2.9714	.01136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-1-BPDS Acquired: 6/9/2022 20:28:55 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.0129**	**1.0849**	**1.0255**	F **1450.1**	**1.0363**
Stddev	.0261	.0020	.0011	2.6	.0016
%RSD	.51999	.18488	.10413	.18244	.15106
#1	5.0313	1.0863	1.0262	1452.0	1.0374
#2	4.9945	1.0835	1.0247	1448.3	1.0352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**1.0513**	**.21674**	**1.0372**	**1.1189**
Stddev	.00	.0034	.00139	.0069	.0027
%RSD	.0009	.32002	.64185	.66554	.24140
#1	25.12	1.0537	.21772	1.0421	1.1209
#2	25.12	1.0489	.21575	1.0324	1.1170
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.2049**	**.00178**	**.15063**	**.9983**	**.02000**
Stddev	.0284	.00057	.00013	.0027	.00207
%RSD	1.2864	31.832	.08731	.2714	10.349
#1	2.2250	.00138	.15073	1.000	.01854
#2	2.1849	.00218	.15054	.9964	.02147
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-1-BPDS Acquired: 6/9/2022 20:28:55 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.99982**	**1.0458**	**1.1574**	**.9998**
Stddev	.00375	.0024	.0039	.0009
%RSD	.37487	.22591	.33580	.0866
#1	1.0025	1.0475	1.1602	.9992
#2	.99717	1.0441	1.1547	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3037.5**	**3129.0**	**61969.**	**5797.9**
Stddev	2.0	.5	187.	18.2
%RSD	.06586	.01632	.30214	.31326
#1	3036.1	3128.6	61837.	5785.1
#2	3038.9	3129.3	62102.	5810.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.173%	88.599%	85.895%	94.616%
Range				

Sample Name: 480-198746-A-1-C MS Acquired: 6/9/2022 20:32:47 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0349**	**.86637**	**1.0632**	**.10719**	**1.3847**
Stddev	.0005	.01592	.0109	.00064	.0047
%RSD	.05029	1.8375	1.0244	.59884	.34340
#1	1.0353	.85511	1.0709	.10765	1.3880
#2	1.0345	.87762	1.0555	.10674	1.3813
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98450**	**38.329**	**1.0062**	**-.0836**	**1.0042**
Stddev	.00210	.076	.0026	.0155	.0022
%RSD	.21353	.19708	.25955	18.60	.21609
#1	.98599	38.382	1.0081	-.0946	1.0058
#2	.98302	38.275	1.0044	-.0726	1.0027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97156**	**1.0268**	**.57331**	**3.0541**	**.01153**
Stddev	.00026	.0009	.00050	.0093	.00057
%RSD	.02628	.08610	.08806	.30487	4.9376
#1	.97174	1.0274	.57367	3.0607	.01113
#2	.97138	1.0262	.57295	3.0475	.01194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-1-C MS Acquired: 6/9/2022 20:32:47 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.0965**	**1.0478**	**.99096**	F **1465.9**	**.99892**
Stddev	.0086	.0004	.00333	2.1	.00286
%RSD	.16811	.03951	.33607	.14571	.28660
#1	5.0904	1.0475	.99331	1467.4	1.0009
#2	5.1025	1.0481	.98860	1464.4	.99689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**1.0125**	**.22201**	**1.0128**	**1.0862**
Stddev	.00	.0016	.00675	.0002	.0067
%RSD	.0002	.15953	3.0382	.01672	.62163
#1	25.12	1.0136	.22678	1.0127	1.0910
#2	25.12	1.0113	.21724	1.0129	1.0814
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.1728**	**.00002**	**.24846**	**.9962**	**.02115**
Stddev	.0325	.00024	.00025	.0004	.00040
%RSD	1.4965	1477.6	.09871	.0426	1.9131
#1	2.1498	-.00016	.24864	.9959	.02143
#2	2.1958	.00019	.24829	.9965	.02086
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-1-C MS Acquired: 6/9/2022 20:32:47 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.95943**	**1.0080**	**1.1192**	**.9995**
Stddev	.00313	.0011	.0026	.0000
%RSD	.32584	.10583	.22903	.0016
#1	.96165	1.0073	1.1174	.9996
#2	.95722	1.0088	1.1210	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3009.6**	**3099.5**	**61331.**	**5785.1**
Stddev	3.4	3.1	99.	16.0
%RSD	.11447	.10057	.16066	.27707
#1	3007.1	3097.3	61262.	5773.7
#2	3012.0	3101.7	61401.	5796.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.471%	87.764%	85.011%	94.406%
Range				

Sample Name: 480-198746-A-1-D MSD Acquired: 6/9/2022 20:36:39 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0613**	**.84051**	**1.0889**	**.10903**	**1.3901**
Stddev	.0026	.01144	.0029	.00043	.0048
%RSD	.24240	1.3609	.26424	.39737	.34358
#1	1.0631	.83242	1.0869	.10873	1.3868
#2	1.0595	.84860	1.0910	.10934	1.3935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99370**	**38.925**	**1.0193**	**-.0294**	**1.0158**
Stddev	.00177	.120	.0005	.0499	.0001
%RSD	.17814	.30880	.05185	169.8	.01310
#1	.99245	38.840	1.0197	-.0647	1.0159
#2	.99495	39.010	1.0190	.0059	1.0157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99216**	**1.0470**	**.58427**	**3.1043**	**.01126**
Stddev	.00079	.0037	.00265	.0651	.00031
%RSD	.07934	.35797	.45406	2.0975	2.7164
#1	.99161	1.0496	.58240	3.0582	.01105
#2	.99272	1.0443	.58615	3.1503	.01148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-1-D MSD Acquired: 6/9/2022 20:36:39 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2120**	**1.0692**	**1.0073**	F **1486.1**	**1.0170**
Stddev	.0164	.0011	.0020	2.4	.0002
%RSD	.31424	.10163	.19603	.15840	.01699
#1	5.2004	1.0700	1.0087	1484.4	1.0168
#2	5.2235	1.0684	1.0059	1487.7	1.0171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**1.0250**	**.22700**	**1.0381**	**1.1132**
Stddev	.00	.0007	.00204	.0015	.0027
%RSD	.0025	.06417	.89857	.14854	.24247
#1	25.12	1.0254	.22556	1.0370	1.1151
#2	25.12	1.0245	.22844	1.0392	1.1113
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.2171**	**.00072**	**.25111**	**.9982**	**.02013**
Stddev	.0246	.00011	.00040	.0029	.00452
%RSD	1.1078	15.778	.15793	.2947	22.459
#1	2.2345	.00080	.25083	.9961	.01693
#2	2.1998	.00064	.25139	1.000	.02332
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-1-D MSD Acquired: 6/9/2022 20:36:39 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.97758**	**1.0274**	**1.1342**	**.9994**
Stddev	.00184	.0005	.0008	.0003
%RSD	.18843	.04882	.07211	.0266
#1	.97888	1.0278	1.1347	.9996
#2	.97628	1.0271	1.1336	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2968.6**	**3048.1**	**60378.**	**5734.0**
Stddev	6.7	4.3	121.	12.1
%RSD	.22525	.14003	.20020	.21018
#1	2973.3	3051.1	60463.	5742.5
#2	2963.8	3045.0	60292.	5725.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.443%	86.308%	83.689%	93.573%
Range				

Sample Name: 480-198746-A-3-B Acquired: 6/9/2022 20:40:32 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.49148**	**.01169**	**.14248**	**.36482**
Stddev	.00083	.00613	.00063	.00081	.00122
%RSD	1478.7	1.2481	5.3778	.56908	.33556
#1	-.00064	.48715	.01124	.14305	.36569
#2	.00053	.49582	.01213	.14190	.36396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**31.809**	**.00102**	**-.0060**	**.00009**
Stddev	.00009	.014	.00009	.0254	.00014
%RSD	39.182	.04508	8.6331	419.4	165.13
#1	.00017	31.799	.00108	.0119	-.00001
#2	.00030	31.819	.00096	-.0240	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00232**	**.00355**	**.29012**	**3.2156**	**.01120**
Stddev	.00029	.00027	.00258	.0030	.00248
%RSD	12.536	7.6240	.89099	.09309	22.134
#1	.00253	.00336	.28829	3.2178	.01295
#2	.00212	.00374	.29195	3.2135	.00945
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-3-B Acquired: 6/9/2022 20:40:32 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.6374**	**.03494**	**.00159**	F **1515.3**	**.00681**
Stddev	.0015	.00001	.00042	3.3	.00016
%RSD	.04088	.01732	26.156	.21858	2.3054
#1	3.6363	.03494	.00130	1512.9	.00693
#2	3.6384	.03495	.00188	1517.6	.00670
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.15**	**.04014**	**.18813**	**.00512**	**-.00142**
Stddev	.00	.00007	.00116	.00070	.00113
%RSD	.0016	.17481	.61431	13.759	79.723
#1	25.15	.04019	.18895	.00561	-.00222
#2	25.15	.04009	.18731	.00462	-.00062
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6333**	**.00004**	**.16953**	**.9978**	**.00655**
Stddev	.0061	.00100	.00051	.0017	.00020
%RSD	.37193	2800.5	.30180	.1727	3.1204
#1	1.6290	.00075	.16917	.9990	.00640
#2	1.6376	-.00067	.16989	.9965	.00669
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-3-B Acquired: 6/9/2022 20:40:32 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00246**	**.00074**	**.05073**	**.9992**
Stddev	.00307	.00009	.00034	.0005
%RSD	124.86	12.398	.66962	.0537
#1	.00029	.00067	.05097	.9995
#2	.00463	.00080	.05049	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2985.2**	**3063.0**	**60486.**	**5752.4**
Stddev	1.1	2.6	132.	7.1
%RSD	.03539	.08487	.21837	.12335
#1	2984.4	3061.2	60392.	5757.4
#2	2985.9	3064.9	60579.	5747.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.860%	86.732%	83.839%	93.872%
Range				

Sample Name: CCV-7024752 Acquired: 6/9/2022 20:44:35 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0345**	**51.024**	**1.0372**	**1.0550**	**1.0127**
Stddev	.0024	.016	.0011	.0001	.0004
%RSD	.22783	.03205	.10516	.00774	.04180
#1	1.0361	51.012	1.0380	1.0549	1.0130
#2	1.0328	51.035	1.0365	1.0550	1.0124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0121**	**51.623**	**1.0379**	**1.026**	**1.0259**
Stddev	.0007	.075	.0002	.033	.0007
%RSD	.07225	.14548	.02285	3.258	.07095
#1	1.0126	51.676	1.0377	1.050	1.0265
#2	1.0116	51.570	1.0381	1.002	1.0254
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0385**	**1.0427**	**52.296**	**51.705**	**1.0110**
Stddev	.0015	.0001	.094	.065	.0016
%RSD	.14910	.01042	.17926	.12530	.15996
#1	1.0396	1.0428	52.362	51.750	1.0099
#2	1.0374	1.0426	52.229	51.659	1.0121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 20:44:35 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.542**	**1.0572**	**1.0383**	**51.458**	**1.0379**
Stddev	.021	.0006	.0042	.099	.0002
%RSD	.04036	.05291	.40443	.19230	.01771
#1	52.557	1.0576	1.0413	51.528	1.0381
#2	52.527	1.0568	1.0353	51.388	1.0378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.09**	**1.0353**	**26.104**	**1.0435**	**1.0496**
Stddev	.01	.0003	.043	.0005	.0063
%RSD	.0203	.03053	.16319	.04737	.59895
#1	38.09	1.0355	26.074	1.0431	1.0541
#2	38.08	1.0351	26.134	1.0438	1.0452
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.211**	**1.0334**	**1.0297**	**1.510**	**1.0368**
Stddev	.012	.0004	.0020	.004	.0003
%RSD	.12096	.03599	.19081	.2469	.02645
#1	10.220	1.0331	1.0311	1.507	1.0370
#2	10.203	1.0337	1.0283	1.513	1.0366
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 20:44:35 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0465**	**1.0494**	**1.0713**	**1.519**
Stddev	.0021	.0004	.0008	.000
%RSD	.20469	.03438	.07361	.0154
#1	1.0450	1.0492	1.0708	1.519
#2	1.0480	1.0497	1.0719	1.519
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3358.3**	**3278.3**	**65541.**	**5712.1**
Stddev	.3	1.8	28.	12.1
%RSD	.00829	.05390	.04259	.21246
#1	3358.5	3279.5	65560.	5703.5
#2	3358.1	3277.1	65521.	5720.7

Sample Name: CCB-7026764 Acquired: 6/9/2022 20:48:15 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**-.02161**	**.00063**	**.00027**	**.00004**
Stddev	.00047	.00059	.00063	.00012	.00003
%RSD	65.794	2.7292	100.09	45.829	66.559
#1	-.00104	-.02203	.00108	.00035	.00006
#2	-.00038	-.02119	.00019	.00018	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00140**	**-.00003**	**.0007**	**.00006**
Stddev	.00006	.00065	.00003	.0240	.00001
%RSD	981.39	46.704	122.15	3526.	21.368
#1	.00004	.00094	-.00005	-.0163	.00007
#2	-.00005	.00187	-.00000	.0177	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**-.00007**	**.00798**	**.09985**	**.00134**
Stddev	.00004	.00011	.00019	.02175	.00120
%RSD	17.736	146.02	2.3746	21.788	89.779
#1	-.00027	-.00015	.00784	.11523	.00049
#2	-.00021	.00000	.00811	.08447	.00218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 20:48:15 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00070**	**.00007**	**.00251**	**.24369**	**.00009**
Stddev	.00318	.00005	.00040	.01017	.00017
%RSD	451.93	81.465	15.821	4.1717	195.53
#1	-.00295	.00010	.00223	.25088	.00021
#2	.00155	.00003	.00280	.23650	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00000**	**-.01595**	**.00048**	**.00139**
Stddev	.00	.00070	.00041	.00097	.00089
%RSD	.0020	32809.	2.5424	203.17	64.171
#1	25.00	.00050	-.01624	.00117	.00203
#2	25.00	-.00049	-.01567	-.00021	.00076
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00515**	**-.00003**	**.00004**	**1.000**	**.00048**
Stddev	.00734	.00016	.00009	.003	.00045
%RSD	142.40	452.09	202.75	.3054	94.857
#1	-.01034	-.00015	.00010	1.003	.00080
#2	.00004	.00008	-.00002	.9982	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 20:48:15 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00071**	**-.00057**	**.00022**	**.9999**
Stddev	.00017	.00016	.00015	.0006
%RSD	23.808	27.822	66.214	.0576
#1	.00059	-.00046	.00033	1.000
#2	.00083	-.00069	.00012	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4016.0**	**3538.1**	**72380.**	**5967.4**
Stddev	.6	.3	268.	24.2
%RSD	.01594	.00833	.37006	.40536
#1	4015.6	3538.3	72190.	5950.3
#2	4016.5	3537.9	72569.	5984.6

Sample Name: CCVL-7019501 Acquired: 6/9/2022 20:52:09 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00494**	**.17764**	**.01312**	**.01819**	**.00207**
Stddev	.00016	.00794	.00161	.00007	.00000
%RSD	3.2367	4.4717	12.279	.40039	.08580
#1	.00483	.18326	.01198	.01824	.00207
#2	.00506	.17202	.01426	.01814	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00197**	**.48649**	**.00202**	**-.0253**	**.00358**
Stddev	.00005	.00370	.00001	.0102	.00009
%RSD	2.4259	.76107	.55160	40.26	2.4603
#1	.00194	.48387	.00203	-.0181	.00364
#2	.00201	.48911	.00201	-.0325	.00352
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00357**	**.01057**	**.04997**	**.52596**	**.02952**
Stddev	.00002	.00009	.00051	.01901	.00023
%RSD	.49966	.80911	1.0290	3.6146	.78146
#1	.00356	.01063	.05033	.53940	.02968
#2	.00358	.01051	.04961	.51252	.02936
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7019501 Acquired: 6/9/2022 20:52:09 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19296**	**.00292**	**.00943**	**1.1252**	**.00944**
Stddev	.00341	.00001	.00038	.0017	.00001
%RSD	1.7686	.41618	4.0708	.14635	.10682
#1	.19538	.00291	.00915	1.1263	.00945
#2	.19055	.00292	.00970	1.1240	.00944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00897**	**.16231**	**.01880**	**.01935**
Stddev	.00	.00004	.00012	.00041	.00008
%RSD	.0003	.40604	.07273	2.1776	.42976
#1	25.00	.00894	.16240	.01851	.01941
#2	25.00	.00899	.16223	.01909	.01929
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.43464**	**.00869**	**.00501**	F **.9984**	**.00430**
Stddev	.00594	.00036	.00005	.0026	.00053
%RSD	1.3659	4.1700	1.0401	.2624	12.231
#1	.43884	.00894	.00504	1.000	.00393
#2	.43045	.00843	.00497	.9965	.00468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7019501 Acquired: 6/9/2022 20:52:09 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02097**	**.00442**	W **.00655**	F **.9992**
Stddev	.00033	.00006	.00012	.0002
%RSD	1.5906	1.3859	1.7745	.0164
#1	.02121	.00438	.00664	.9993
#2	.02074	.00446	.00647	.9991
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Fail
Value			.01000	.0060
Range			-30.000%	50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3990.1**	**3539.1**	**72138.**	**5962.4**
Stddev	4.5	1.1	51.	7.8
%RSD	.11184	.03094	.07012	.13153
#1	3986.9	3539.9	72102.	5956.8
#2	3993.2	3538.3	72174.	5967.9

Sample Name: 480-198746-A-5-B Acquired: 6/9/2022 20:56:01 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**.46563**	**.00199**	**.62198**	**.37440**
Stddev	.00019	.05303	.00016	.00197	.00026
%RSD	31.572	11.389	7.9568	.31706	.06832
#1	-.00046	.50312	.00188	.62059	.37458
#2	-.00073	.42813	.00210	.62338	.37422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**32.714**	**.00126**	**-.0106**	**-.00008**
Stddev	.00001	.049	.00002	.0100	.00005
%RSD	2.6995	.15052	1.3001	94.56	61.778
#1	.00021	32.749	.00127	-.0177	-.00005
#2	.00020	32.680	.00125	-.0035	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00222**	**.00275**	**.28878**	**2.5439**	**.00816**
Stddev	.00007	.00025	.00094	.0453	.00010
%RSD	3.2150	9.0436	.32606	1.7810	1.2791
#1	.00227	.00258	.28945	2.5759	.00808
#2	.00217	.00293	.28811	2.5118	.00823
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-5-B Acquired: 6/9/2022 20:56:01 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.7536**	**.04664**	**-.00105**	F **1519.7**	**.00529**
Stddev	.0031	.00013	.00017	4.6	.00005
%RSD	.05351	.27146	16.471	.30338	1.0083
#1	5.7558	.04655	-.00117	1523.0	.00525
#2	5.7515	.04673	-.00092	1516.5	.00533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.08**	**.00879**	**.35255**	**-.00077**	**-.00584**
Stddev	.00	.00132	.00408	.00044	.00293
%RSD	.0037	15.040	1.1571	56.979	50.151
#1	25.08	.00973	.34967	-.00046	-.00792
#2	25.08	.00786	.35544	-.00107	-.00377
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2874**	**.00050**	**.11495**	**.9976**	**.00649**
Stddev	.0204	.00031	.00010	.0065	.00090
%RSD	1.5850	62.306	.08735	.6543	13.882
#1	1.3018	.00072	.11488	.9930	.00712
#2	1.2730	.00028	.11502	1.002	.00585
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-5-B Acquired: 6/9/2022 20:56:01 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00061**	**.00012**	**.05501**	**.9990**
Stddev	.00003	.00013	.00000	.0007
%RSD	5.1608	106.98	.00573	.0732
#1	.00064	.00021	.05501	.9985
#2	.00059	.00003	.05501	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3022.9**	**3114.2**	**61815.**	**5697.2**
Stddev	1.7	1.3	70.	13.2
%RSD	.05472	.04287	.11270	.23087
#1	3024.1	3113.2	61864.	5687.9
#2	3021.7	3115.1	61766.	5706.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.806%	88.180%	85.681%	92.972%
Range				

Sample Name: 480-198746-A-7-B Acquired: 6/9/2022 21:00:02 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**.15012**	**.00556**	**.07362**	**.61711**
Stddev	.00010	.01589	.00153	.00011	.00297
%RSD	17.096	10.585	27.532	.14908	.48055
#1	-.00067	.16136	.00664	.07370	.61501
#2	-.00052	.13888	.00448	.07354	.61920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**107.70**	**.00284**	**.0018**	**.00014**
Stddev	.00005	.02	.00001	.0352	.00005
%RSD	23.718	.01585	.44639	1915.	36.543
#1	.00025	107.71	.00283	.0268	.00010
#2	.00018	107.69	.00285	-.0231	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**.00223**	**.08436**	**3.1061**	**.00921**
Stddev	.00008	.00003	.00037	.0092	.00094
%RSD	10.564	1.2609	.43732	.29708	10.245
#1	.00080	.00225	.08410	3.1126	.00854
#2	.00069	.00221	.08462	3.0995	.00987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-7-B Acquired: 6/9/2022 21:00:02 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.726**	**.27348**	**-.00155**	F **1522.7**	**.00432**
Stddev	.029	.00043	.00006	.7	.00016
%RSD	.10083	.15764	3.7813	.04313	3.5944
#1	28.706	.27318	-.00150	1522.2	.00443
#2	28.747	.27379	-.00159	1523.1	.00421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.09**	**.01925**	**.41503**	**.00191**	**-.01536**
Stddev	.00	.00146	.00914	.00079	.00461
%RSD	.0072	7.5859	2.2011	41.275	30.007
#1	25.09	.02028	.42149	.00246	-.01210
#2	25.09	.01821	.40857	.00135	-.01862
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0619**	**.00057**	**.18371**	**.9951**	**.00170**
Stddev	.0071	.00046	.00029	.0042	.00016
%RSD	.34399	81.708	.15522	.4223	9.7010
#1	2.0669	.00024	.18350	.9921	.00182
#2	2.0569	.00089	.18391	.9981	.00158
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-7-B Acquired: 6/9/2022 21:00:02 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00148**	**-.00008**	**.03662**	**.9998**
Stddev	.00072	.00029	.00001	.0004
%RSD	48.699	380.43	.03714	.0445
#1	.00097	.00013	.03661	1.000
#2	.00198	-.00028	.03663	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2963.0**	**3060.1**	**60988.**	**5732.3**
Stddev	.8	4.2	45.	13.0
%RSD	.02532	.13760	.07419	.22610
#1	2962.4	3057.1	61020.	5723.2
#2	2963.5	3063.1	60956.	5741.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.303%	86.649%	84.535%	93.546%
Range				

Sample Name: 480-198746-A-9-B Acquired: 6/9/2022 21:04:05 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.25049**	**.00820**	**.08810**	**.80829**
Stddev	.00010	.01014	.00012	.00066	.00098
%RSD	15.220	4.0471	1.4250	.75380	.12104
#1	-.00070	.25765	.00812	.08857	.80760
#2	-.00056	.24332	.00828	.08763	.80898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**80.807**	**.02879**	**-.0117**	**.00128**
Stddev	.00001	.021	.00013	.0243	.00024
%RSD	3.6498	.02597	.45121	207.8	18.951
#1	.00028	80.792	.02888	-.0289	.00145
#2	.00029	80.821	.02869	.0055	.00111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.08893**	**.08759**	**2.7124**	**.00988**
Stddev	.00056	.00020	.00046	.0137	.00180
%RSD	168.47	.22209	.52036	.50426	18.206
#1	-.00006	.08879	.08727	2.7221	.00861
#2	.00073	.08907	.08791	2.7027	.01115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-9-B Acquired: 6/9/2022 21:04:05 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.3880**	**.12889**	**-.00135**	F **1499.5**	**.02055**
Stddev	.0043	.00018	.00006	.4	.00010
%RSD	.08009	.13739	4.5162	.02651	.50100
#1	5.3850	.12877	-.00140	1499.3	.02062
#2	5.3911	.12902	-.00131	1499.8	.02047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**2.3194**	**.35893**	**.00539**	**-.00778**
Stddev	.00	.0005	.00289	.00038	.00100
%RSD	.0030	.02081	.80479	7.0170	12.867
#1	25.04	2.3197	.35689	.00512	-.00848
#2	25.04	2.3191	.36098	.00565	-.00707
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0442**	**.00126**	**.22897**	**.9956**	**.00175**
Stddev	.0073	.00010	.00013	.0031	.00029
%RSD	.70251	8.0190	.05493	.3102	16.860
#1	1.0390	.00119	.22906	.9978	.00196
#2	1.0494	.00133	.22888	.9934	.00154
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-9-B Acquired: 6/9/2022 21:04:05 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00085**	**-.00017**	**.73304**	**.9992**
Stddev	.00069	.00018	.00121	.0001
%RSD	80.974	101.82	.16471	.0128
#1	.00036	-.00030	.73218	.9991
#2	.00134	-.00005	.73389	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2990.9**	**3075.1**	**61101.**	**5767.5**
Stddev	2.0	1.5	4.	10.5
%RSD	.06742	.04837	.00694	.18191
#1	2992.3	3074.1	61098.	5774.9
#2	2989.5	3076.2	61104.	5760.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.004%	87.074%	84.691%	94.119%
Range				

Sample Name: 480-198746-A-11-B Acquired: 6/9/2022 21:08:04 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00101**	**.13793**	**.01063**	**.12764**	**.78250**
Stddev	.00016	.01884	.00275	.00017	.00094
%RSD	15.643	13.660	25.870	.13276	.12027
#1	-.00090	.12461	.01258	.12752	.78183
#2	-.00112	.15126	.00869	.12776	.78316
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**130.14**	**.05132**	**-.0456**	**.00135**
Stddev	.00004	.05	.00011	.0035	.00016
%RSD	24.648	.04031	.20694	7.757	11.812
#1	.00020	130.11	.05140	-.0481	.00146
#2	.00014	130.18	.05125	-.0431	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**.00548**	**.06329**	**3.5462**	**.01096**
Stddev	.00016	.00006	.00291	.0199	.00221
%RSD	24.078	1.1561	4.5919	.56182	20.210
#1	.00077	.00544	.06534	3.5321	.01253
#2	.00055	.00553	.06123	3.5603	.00939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-11-B Acquired: 6/9/2022 21:08:04 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.293**	**.42300**	**-.00204**	F **1538.5**	**.00749**
Stddev	.022	.00039	.00011	.6	.00004
%RSD	.21682	.09106	5.4819	.03678	.57926
#1	10.309	.42328	-.00196	1538.1	.00752
#2	10.278	.42273	-.00212	1538.9	.00746
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.08**	**1.0790**	**.40946**	**.01386**	**-.00611**
Stddev	.00	.0022	.00115	.00242	.00007
%RSD	.0073	.20611	.28146	17.445	1.1712
#1	25.08	1.0775	.40864	.01215	-.00616
#2	25.07	1.0806	.41027	.01557	-.00606
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.4235**	**.00083**	**.33327**	**1.002**	**.00122**
Stddev	.0166	.00057	.00005	.004	.00050
%RSD	.68422	68.825	.01608	.4051	40.923
#1	2.4117	.00042	.33330	.9994	.00157
#2	2.4352	.00123	.33323	1.005	.00087
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-11-B Acquired: 6/9/2022 21:08:04 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00102**	**.00012**	**.23913**	**.9988**
Stddev	.00254	.00004	.00195	.0001
%RSD	249.99	29.632	.81401	.0113
#1	-.00281	.00010	.24051	.9987
#2	.00078	.00015	.23776	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2959.5**	**3051.8**	**60578.**	**5728.9**
Stddev	1.0	2.9	91.	5.1
%RSD	.03235	.09589	.14949	.08847
#1	2960.2	3053.9	60514.	5732.5
#2	2958.8	3049.8	60642.	5725.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.216%	86.415%	83.966%	93.490%
Range				

Sample Name: 480-198746-A-13-B Acquired: 6/9/2022 21:12:05 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**.17668**	**.02791**	**.08030**	**.97905**
Stddev	.00042	.00597	.00094	.00021	.00119
%RSD	55.091	3.3785	3.3550	.25597	.12140
#1	-.00047	.17246	.02857	.08015	.97989
#2	-.00106	.18090	.02725	.08044	.97821
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**108.31**	**.11735**	**-.0255**	**.00227**
Stddev	.00003	.33	.00027	.0102	.00009
%RSD	17.744	.30755	.23016	40.17	4.0445
#1	.00013	108.54	.11754	-.0327	.00234
#2	.00017	108.07	.11716	-.0182	.00221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.01171**	**.19931**	**3.3609**	**.01058**
Stddev	.00009	.00008	.00003	.0078	.00024
%RSD	15.674	.68243	.01611	.23164	2.2646
#1	.00050	.01165	.19934	3.3554	.01041
#2	.00063	.01177	.19929	3.3664	.01075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-13-B Acquired: 6/9/2022 21:12:05 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.874**	**.25983**	**-.00190**	F **1480.0**	**.01163**
Stddev	.020	.00036	.00007	3.6	.00021
%RSD	.10678	.13678	3.8297	.24351	1.7623
#1	18.889	.26008	-.00185	1482.5	.01149
#2	18.860	.25957	-.00196	1477.4	.01178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.06**	**5.0590**	**.71800**	**.03311**	**-.01145**
Stddev	.00	.0116	.00032	.00012	.00033
%RSD	.0002	.22827	.04423	.37585	2.9110
#1	25.06	5.0672	.71778	.03302	-.01169
#2	25.06	5.0508	.71823	.03320	-.01122
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0058**	**.00027**	**.37367**	**.9981**	**.00143**
Stddev	.0019	.00018	.00107	.0148	.00039
%RSD	.09614	64.827	.28718	1.487	26.954
#1	2.0045	.00015	.37443	1.009	.00116
#2	2.0072	.00040	.37292	.9876	.00170
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-13-B Acquired: 6/9/2022 21:12:05 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00115**	**-.00002**	**1.0095**	**.9996**
Stddev	.00119	.00002	.0006	.0004
%RSD	103.32	152.18	.05904	.0401
#1	-.00031	-.00003	1.0100	.9999
#2	-.00199	.00000	1.0091	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2954.5**	**3047.5**	**60390.**	**5706.9**
Stddev	3.3	3.7	40.	19.5
%RSD	.11106	.12205	.06636	.34203
#1	2952.2	3044.9	60362.	5693.1
#2	2956.8	3050.2	60419.	5720.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.091%	86.293%	83.706%	93.131%
Range				

Sample Name: 480-198746-A-15-B Acquired: 6/9/2022 21:16:05 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.34542**	**.00245**	**.10444**	**.43103**
Stddev	.00014	.00084	.00417	.00030	.00017
%RSD	30.675	.24274	170.35	.28547	.04051
#1	-.00055	.34602	-.00050	.10465	.43115
#2	-.00035	.34483	.00539	.10423	.43091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**36.352**	**.00110**	**-.0053**	**.00007**
Stddev	.00001	.061	.00006	.0222	.00008
%RSD	6.6884	.16776	5.6021	419.7	123.50
#1	.00015	36.309	.00106	-.0209	.00012
#2	.00016	36.395	.00115	.0104	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00165**	**.00276**	**.22372**	**2.6124**	**.00639**
Stddev	.00019	.00046	.00250	.0531	.00091
%RSD	11.270	16.545	1.1179	2.0338	14.217
#1	.00152	.00243	.22195	2.5748	.00575
#2	.00178	.00308	.22549	2.6500	.00704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-15-B Acquired: 6/9/2022 21:16:05 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.1305**	**.06485**	**-.00165**	F **1472.9**	**.00412**
Stddev	.0194	.00002	.00046	3.7	.00000
%RSD	.21252	.02691	28.065	.24875	.11134
#1	9.1168	.06486	-.00198	1470.3	.00412
#2	9.1443	.06484	-.00132	1475.5	.00412
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.06**	**.01208**	**.15696**	**-.00120**	**-.01170**
Stddev	.00	.00109	.00026	.00065	.00138
%RSD	.0020	8.9845	.16820	53.664	11.785
#1	25.06	.01285	.15715	-.00166	-.01267
#2	25.06	.01131	.15678	-.00075	-.01072
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1928**	**.00044**	**.11278**	**1.002**	**.00367**
Stddev	.0081	.00113	.00020	.003	.00012
%RSD	.68054	259.82	.17831	.3050	3.3272
#1	1.1871	.00124	.11263	.9999	.00358
#2	1.1986	-.00036	.11292	1.004	.00376
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-15-B Acquired: 6/9/2022 21:16:05 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00082**	**.00036**	**.03387**	**1.000**
Stddev	.00138	.00023	.00164	.000
%RSD	168.49	65.846	4.8481	.0228
#1	.00180	.00019	.03503	.9999
#2	-.00016	.00052	.03271	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3030.2**	**3114.1**	**61620.**	**5789.2**
Stddev	2.9	.8	36.	17.2
%RSD	.09448	.02477	.05762	.29646
#1	3032.2	3113.5	61595.	5801.4
#2	3028.2	3114.6	61645.	5777.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.988%	88.177%	85.411%	94.474%
Range				

Sample Name: 480-198746-A-17-B Acquired: 6/9/2022 21:20:07 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.42877**	**.03015**	**.12907**	**.41522**
Stddev	.00003	.00045	.00061	.00034	.00045
%RSD	5.9275	.10489	2.0172	.26564	.10935
#1	-.00059	.42908	.02972	.12931	.41490
#2	-.00055	.42845	.03058	.12882	.41554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**41.568**	**.03201**	**-.0195**	**.00064**
Stddev	.00005	.004	.00008	.0095	.00018
%RSD	21.936	.01081	.24421	48.63	28.884
#1	.00026	41.571	.03206	-.0262	.00077
#2	.00019	41.565	.03195	-.0128	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00118**	**.00436**	**.19236**	**3.1325**	**.00902**
Stddev	.00050	.00014	.00193	.0345	.00044
%RSD	42.348	3.1234	1.0047	1.1009	4.8674
#1	.00083	.00427	.19372	3.1082	.00933
#2	.00154	.00446	.19099	3.1569	.00871
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-17-B Acquired: 6/9/2022 21:20:07 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.5982**	**.08439**	**-.00191**	F **1468.8**	**.00849**
Stddev	.0068	.00029	.00012	.3	.00014
%RSD	.12069	.34626	6.0131	.02224	1.6875
#1	5.5934	.08418	-.00183	1469.1	.00839
#2	5.6029	.08459	-.00199	1468.6	.00859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.07**	**.59461**	**.44300**	**.02427**	**-.00728**
Stddev	.00	.00027	.00223	.00011	.00238
%RSD	.0007	.04558	.50257	.43846	32.612
#1	25.07	.59480	.44458	.02434	-.00560
#2	25.07	.59442	.44143	.02419	-.00896
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4818**	**.00073**	**.17646**	**.9972**	**.00547**
Stddev	.0313	.00006	.00006	.0018	.00001
%RSD	2.1095	8.0461	.03296	.1798	.11220
#1	1.5039	.00078	.17642	.9985	.00547
#2	1.4597	.00069	.17651	.9959	.00546
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-17-B Acquired: 6/9/2022 21:20:07 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00142**	**.00037**	**.22119**	**.9995**
Stddev	.00015	.00019	.00041	.0003
%RSD	10.723	51.533	.18493	.0253
#1	.00153	.00051	.22090	.9993
#2	.00132	.00024	.22148	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3019.4**	**3108.3**	**61539.**	**5712.3**
Stddev	.4	5.4	114.	5.0
%RSD	.01431	.17301	.18468	.08743
#1	3019.1	3104.5	61458.	5715.8
#2	3019.7	3112.1	61619.	5708.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.718%	88.013%	85.298%	93.218%
Range				

Sample Name: 480-198746-A-19-B Acquired: 6/9/2022 21:24:08 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00104**	**.16763**	**.00325**	**.08899**	**.53420**
Stddev	.00043	.00791	.00110	.00028	.00165
%RSD	41.182	4.7200	33.759	.31164	.30849
#1	-.00073	.16204	.00247	.08918	.53304
#2	-.00134	.17323	.00402	.08879	.53537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**71.231**	**.00213**	**.0018**	**.00002**
Stddev	.00007	.033	.00001	.0403	.00024
%RSD	35.965	.04688	.58208	2301.	1200.5
#1	.00025	71.255	.00214	.0303	.00019
#2	.00015	71.208	.00213	-.0268	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00104**	**.00237**	**.10772**	**3.0223**	**.00662**
Stddev	.00031	.00064	.00317	.0132	.00046
%RSD	29.432	27.098	2.9400	.43719	6.8929
#1	.00082	.00282	.10996	3.0130	.00630
#2	.00126	.00191	.10548	3.0317	.00695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-19-B Acquired: 6/9/2022 21:24:08 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.9251**	**.16804**	**-.00193**	F **1501.5**	**.00542**
Stddev	.0112	.00057	.00023	.2	.00031
%RSD	.12593	.33851	12.009	.01008	5.6570
#1	8.9171	.16764	-.00176	1501.6	.00563
#2	8.9330	.16844	-.00209	1501.4	.00520
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.07**	**.01712**	**.21336**	**-.00032**	**-.01388**
Stddev	.00	.00154	.00163	.00271	.00130
%RSD	.0061	9.0055	.76194	845.88	9.3531
#1	25.08	.01603	.21451	.00159	-.01296
#2	25.07	.01821	.21221	-.00223	-.01480
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.92669**	**-.00045**	**.16466**	**.9971**	**.00203**
Stddev	.00063	.00051	.00023	.0010	.00017
%RSD	.06829	113.11	.13674	.1048	8.4386
#1	.92713	-.00009	.16482	.9964	.00215
#2	.92624	-.00082	.16450	.9979	.00191
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-19-B Acquired: 6/9/2022 21:24:08 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00016**	**.00008**	**.09113**	**.9997**
Stddev	.00002	.00009	.00060	.0002
%RSD	11.773	118.79	.65734	.0205
#1	.00017	.00001	.09071	.9995
#2	.00015	.00015	.09156	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2979.7**	**3070.8**	**60788.**	**5650.9**
Stddev	2.0	1.6	186.	4.0
%RSD	.06713	.05096	.30588	.07077
#1	2978.3	3069.7	60920.	5648.0
#2	2981.1	3071.9	60657.	5653.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.723%	86.952%	84.258%	92.216%
Range				

Sample Name: 480-198746-A-21-B Acquired: 6/9/2022 21:28:10 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00082**	**.16985**	**.00103**	**.18067**	**.72981**
Stddev	.00015	.00998	.00415	.00082	.00162
%RSD	18.585	5.8750	402.79	.45586	.22220
#1	-.00071	.16279	-.00190	.18008	.73096
#2	-.00093	.17691	.00396	.18125	.72866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**119.91**	**.00210**	**-.0477**	**-.00025**
Stddev	.00003	.33	.00003	.0069	.00009
%RSD	22.583	.27694	1.6038	14.42	37.286
#1	.00011	120.15	.00208	-.0428	-.00032
#2	.00015	119.68	.00213	-.0526	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00096**	**.06908**	**2.8871**	**.00539**
Stddev	.00025	.00010	.00392	.0131	.00027
%RSD	86.910	10.859	5.6777	.45234	5.0245
#1	.00011	.00103	.07185	2.8779	.00520
#2	.00047	.00089	.06630	2.8963	.00558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-21-B Acquired: 6/9/2022 21:28:10 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.697**	**.30539**	**-.00201**	F **1502.5**	**.00439**
Stddev	.073	.00035	.00010	2.8	.00040
%RSD	.18930	.11455	5.2080	.18375	9.1818
#1	38.645	.30515	-.00208	1504.5	.00467
#2	38.749	.30564	-.00193	1500.6	.00410
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.01275**	**.24915**	**.00094**	**-.01154**
Stddev	.00	.00023	.00394	.00057	.00086
%RSD	.0032	1.8326	1.5805	61.117	7.4465
#1	25.05	.01258	.25193	.00053	-.01214
#2	25.05	.01291	.24637	.00134	-.01093
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4199**	**.00034**	**.19240**	**.9940**	**.00153**
Stddev	.0068	.00059	.00030	.0013	.00086
%RSD	.47741	174.00	.15737	.1284	56.560
#1	1.4151	-.00008	.19261	.9931	.00092
#2	1.4247	.00076	.19218	.9949	.00214
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-21-B Acquired: 6/9/2022 21:28:10 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00105**	**-.00009**	**.03498**	**.9990**
Stddev	.00001	.00023	.00108	.0004
%RSD	.87999	257.76	3.0878	.0376
#1	.00106	-.00026	.03574	.9993
#2	.00105	.00007	.03422	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2948.1**	**3051.5**	**60759.**	**5648.0**
Stddev	3.1	1.1	110.	7.3
%RSD	.10407	.03489	.18153	.12941
#1	2945.9	3052.2	60681.	5642.9
#2	2950.3	3050.7	60837.	5653.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.930%	86.405%	84.218%	92.169%
Range				

Sample Name: CCV-7024752 Acquired: 6/9/2022 21:32:12 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0190**	**50.315**	**1.0180**	**1.0334**	**.99888**
Stddev	.0015	.127	.0007	.0012	.00242
%RSD	.14358	.25307	.07261	.11870	.24261
#1	1.0201	50.405	1.0186	1.0343	1.0006
#2	1.0180	50.225	1.0175	1.0325	.99717
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0004**	**50.682**	**1.0164**	**.9600**	**1.0046**
Stddev	.0023	.199	.0005	.0074	.0001
%RSD	.22867	.39288	.04885	.7662	.01287
#1	1.0021	50.823	1.0168	.9548	1.0047
#2	.99883	50.541	1.0161	.9652	1.0045
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0233**	**1.0253**	**51.368**	**51.272**	**1.0056**
Stddev	.0002	.0008	.199	.198	.0021
%RSD	.01586	.07693	.38815	.38550	.20758
#1	1.0231	1.0258	51.509	51.412	1.0071
#2	1.0234	1.0247	51.227	51.132	1.0041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 21:32:12 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.612**	**1.0354**	**1.0188**	**50.907**	**1.0180**
Stddev	.077	.0021	.0026	.203	.0010
%RSD	.14850	.20265	.25008	.39900	.09547
#1	51.666	1.0369	1.0206	51.051	1.0187
#2	51.558	1.0339	1.0170	50.764	1.0173
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.79**	**1.0157**	**25.521**	**1.0220**	**1.0226**
Stddev	.02	.0014	.012	.0049	.0048
%RSD	.0431	.13797	.04822	.47771	.46970
#1	37.81	1.0167	25.512	1.0255	1.0260
#2	37.78	1.0147	25.529	1.0186	1.0192
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.087**	**1.0123**	**1.0139**	**1.502**	**1.0190**
Stddev	.058	.0023	.0041	.004	.0007
%RSD	.57148	.22540	.40726	.2432	.07255
#1	10.127	1.0139	1.0168	1.504	1.0195
#2	10.046	1.0106	1.0110	1.499	1.0185
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 21:32:12 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0245**	**1.0296**	**1.0508**	**1.509**
Stddev	.0030	.0017	.0034	.001
%RSD	.29238	.16808	.32602	.0904
#1	1.0266	1.0308	1.0484	1.510
#2	1.0223	1.0284	1.0532	1.508
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3410.0**	**3328.6**	**66478.**	**5731.4**
Stddev	2.7	1.4	114.	14.1
%RSD	.07945	.04161	.17131	.24594
#1	3411.9	3329.5	66558.	5721.4
#2	3408.1	3327.6	66397.	5741.4

Sample Name: CCB-7026764 Acquired: 6/9/2022 21:35:52 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**-.01388**	**.00085**	**.00053**	**.00001**
Stddev	.00045	.00585	.00275	.00044	.00000
%RSD	74.822	42.162	323.78	83.459	1.8088
#1	-.00028	-.01801	-.00110	.00084	.00001
#2	-.00092	-.00974	.00279	.00022	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00153**	**.00002**	**-.0365**	**-.00007**
Stddev	.00009	.00074	.00007	.0285	.00005
%RSD	1021.5	48.657	369.43	78.17	70.262
#1	-.00005	.00205	.00007	-.0163	-.00010
#2	.00007	.00100	-.00003	-.0567	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00053**	**.00624**	**.10205**	**.00036**
Stddev	.00052	.00025	.00113	.03155	.00045
%RSD	311.29	46.845	18.163	30.913	124.88
#1	-.00054	.00036	.00544	.12436	.00067
#2	.00020	.00071	.00704	.07974	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 21:35:52 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**.00005**	**.00236**	**.33188**	**.00010**
Stddev	.00096	.00000	.00034	.00311	.00022
%RSD	225.23	5.2002	14.400	.93703	213.43
#1	.00110	.00005	.00212	.32969	-.00005
#2	-.00025	.00005	.00260	.33408	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00054**	**-.01771**	**-.00150**	**.00366**
Stddev	.00	.00059	.00154	.00097	.00023
%RSD	.0016	110.85	8.6762	64.879	6.3043
#1	25.00	-.00096	-.01662	-.00219	.00350
#2	25.00	-.00012	-.01879	-.00081	.00382
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01366**	**.00033**	**.00011**	**1.005**	**.00054**
Stddev	.00997	.00012	.00009	.001	.00006
%RSD	72.977	37.113	80.360	.1036	10.573
#1	-.02071	.00024	.00005	1.004	.00050
#2	-.00661	.00042	.00018	1.005	.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 21:35:52 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00084**	**-.00013**	**-.00026**	**.9996**
Stddev	.00156	.00054	.00038	.0000
%RSD	186.56	413.16	145.46	.0021
#1	.00194	.00025	-.00054	.9996
#2	-.00027	-.00051	.00001	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4021.5**	**3536.3**	**72084.**	**5907.9**
Stddev	3.9	2.4	48.	25.9
%RSD	.09777	.06648	.06626	.43920
#1	4018.7	3534.7	72051.	5889.5
#2	4024.3	3538.0	72118.	5926.2

Sample Name: CCVL-7019501 Acquired: 6/9/2022 21:39:45 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00513**	W **.13951**	**.01231**	**.01879**	**.00209**
Stddev	.00007	.01064	.00050	.00007	.00001
%RSD	1.3269	7.6299	4.0627	.38806	.65890
#1	.00508	.13199	.01267	.01874	.00208
#2	.00518	.14704	.01196	.01884	.00210
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value		.20000			
Range		-30.000%			

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00197**	**.49635**	**.00191**	**-.0310**	**.00370**
Stddev	.00002	.00424	.00003	.0206	.00014
%RSD	.77076	.85506	1.8054	66.53	3.6601
#1	.00196	.49935	.00189	-.0164	.00360
#2	.00198	.49335	.00194	-.0456	.00380
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00363**	**.01111**	**.04999**	**.54477**	**.02784**
Stddev	.00017	.00001	.00198	.01410	.00208
%RSD	4.5664	.07218	3.9537	2.5891	7.4548
#1	.00352	.01110	.04859	.55475	.02931
#2	.00375	.01111	.05139	.53480	.02638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7019501 Acquired: 6/9/2022 21:39:45 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19538**	**.00295**	**.00940**	**1.2291**	**.00952**
Stddev	.00007	.00007	.00016	.0044	.00010
%RSD	.03611	2.2723	1.6512	.35762	1.0177
#1	.19533	.00291	.00951	1.2322	.00945
#2	.19543	.00300	.00929	1.2260	.00959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01025**	**.16710**	**.01834**	**.02140**
Stddev	.00	.00002	.00022	.00040	.00397
%RSD	.0060	.22177	.13120	2.1954	18.574
#1	25.00	.01023	.16694	.01806	.01859
#2	25.00	.01026	.16725	.01863	.02421
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44919**	**.00889**	**.00505**	F **.9908**	**.00438**
Stddev	.00957	.00062	.00008	.0043	.00016
%RSD	2.1298	6.9758	1.6826	.4371	3.6542
#1	.44243	.00933	.00499	.9938	.00426
#2	.45596	.00845	.00511	.9877	.00449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7019501 Acquired: 6/9/2022 21:39:45 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02031**	**.00471**	W **.00660**	F **1.000**
Stddev	.00029	.00032	.00060	.000
%RSD	1.4170	6.7565	9.1071	.0190
#1	.02051	.00448	.00702	.9999
#2	.02011	.00493	.00617	1.000
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Fail
Value			.01000	.0060
Range			-30.000%	50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3969.5**	**3521.2**	**71571.**	**5892.6**
Stddev	.2	1.3	33.	7.4
%RSD	.00550	.03750	.04573	.12485
#1	3969.4	3520.2	71594.	5887.4
#2	3969.7	3522.1	71548.	5897.9

Sample Name: 480-198746-A-23-B Acquired: 6/9/2022 21:43:37 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00092**	**.36365**	**.00173**	**.52233**	**.43125**
Stddev	.00036	.01114	.00000	.00099	.00055
%RSD	38.859	3.0645	.01408	.18896	.12841
#1	-.00067	.37153	.00173	.52163	.43086
#2	-.00118	.35577	.00173	.52302	.43164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**26.566**	**.00105**	**-.0334**	**.00011**
Stddev	.00001	.021	.00003	.0257	.00009
%RSD	6.1776	.07740	3.0582	76.89	85.907
#1	.00023	26.581	.00107	-.0152	.00004
#2	.00021	26.552	.00103	-.0516	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00237**	**.00203**	**.18058**	**2.2864**	**.00558**
Stddev	.00020	.00019	.00043	.0338	.00040
%RSD	8.4677	9.4473	.23563	1.4780	7.1613
#1	.00223	.00190	.18028	2.2625	.00586
#2	.00251	.00217	.18088	2.3103	.00530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-23-B Acquired: 6/9/2022 21:43:37 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.2657**	**.05932**	**-.00163**	F **1499.8**	**.00499**
Stddev	.0063	.00023	.00008	.6	.00005
%RSD	.14723	.38650	5.1379	.04208	1.0703
#1	4.2613	.05948	-.00169	1499.3	.00495
#2	4.2702	.05916	-.00157	1500.2	.00503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.06**	**.02622**	**.33023**	**.00084**	**-.00869**
Stddev	.00	.00256	.00132	.00220	.00044
%RSD	.0028	9.7635	.40049	261.53	5.0361
#1	25.06	.02441	.32929	-.00071	-.00838
#2	25.06	.02803	.33116	.00239	-.00900
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0251**	**.00064**	**.09348**	**1.003**	**.00445**
Stddev	.0185	.00036	.00005	.001	.00012
%RSD	1.8078	55.986	.05031	.0490	2.7630
#1	1.0120	.00090	.09352	1.003	.00453
#2	1.0382	.00039	.09345	1.002	.00436
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-23-B Acquired: 6/9/2022 21:43:37 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00024**	**.02946**	**.9989**
Stddev	.00066	.00032	.00028	.0005
%RSD	109.81	132.29	.95564	.0532
#1	.00107	.00002	.02926	.9993
#2	.00013	.00047	.02966	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3023.8**	**3112.7**	**61218.**	**5697.3**
Stddev	1.3	.5	41.	26.5
%RSD	.04159	.01540	.06622	.46587
#1	3024.7	3112.4	61190.	5678.6
#2	3022.9	3113.1	61247.	5716.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.827%	88.139%	84.854%	92.974%
Range				

Sample Name: 480-198746-A-25-B Acquired: 6/9/2022 21:47:39 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.19113**	**.06336**	**.06372**	**.60111**
Stddev	.00024	.02774	.00300	.00010	.00268
%RSD	364.93	14.513	4.7278	.16019	.44578
#1	.00010	.17152	.06548	.06380	.60301
#2	-.00023	.21075	.06124	.06365	.59922
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**51.343**	**.00679**	**.0266**	**.00042**
Stddev	.00002	.059	.00030	.0299	.00002
%RSD	13.397	.11457	4.4725	112.7	5.6872
#1	.00017	51.302	.00658	.0054	.00044
#2	.00020	51.385	.00701	.0477	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00088**	**.00242**	**.09062**	**2.4816**	**.00469**
Stddev	.00003	.00029	.00050	.0232	.00169
%RSD	3.3091	11.938	.55645	.93293	36.008
#1	.00090	.00262	.09098	2.4652	.00349
#2	.00086	.00221	.09027	2.4980	.00588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-25-B Acquired: 6/9/2022 21:47:39 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.1176**	**.11176**	**-.00159**	F **1489.1**	**.00810**
Stddev	.0221	.00018	.00015	1.7	.00040
%RSD	.31009	.16251	9.6562	.11255	4.9145
#1	7.1333	.11189	-.00170	1487.9	.00838
#2	7.1020	.11163	-.00148	1490.3	.00782
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.15**	**1.2328**	**.34073**	**.28728**	**-.00744**
Stddev	.00	.0003	.00057	.00215	.00069
%RSD	.0029	.02543	.16661	.74996	9.2122
#1	25.15	1.2330	.34033	.28880	-.00793
#2	25.15	1.2326	.34113	.28576	-.00696
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93403**	**.00030**	**.18262**	**.9980**	**.00159**
Stddev	.01250	.00009	.00002	.0044	.00008
%RSD	1.3385	29.152	.00974	.4415	5.2336
#1	.92519	.00036	.18261	.9949	.00164
#2	.94287	.00024	.18264	1.001	.00153
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-25-B Acquired: 6/9/2022 21:47:39 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00080**	**.00045**	**.25928**	**.9991**
Stddev	.00023	.00006	.00131	.0004
%RSD	28.802	13.713	.50604	.0411
#1	.00064	.00049	.26021	.9988
#2	.00097	.00041	.25835	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3000.0**	**3090.8**	**61181.**	**5695.3**
Stddev	4.5	.4	108.	20.3
%RSD	.14847	.01205	.17670	.35571
#1	3003.2	3090.6	61105.	5709.6
#2	2996.9	3091.1	61258.	5680.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.232%	87.519%	84.803%	92.940%
Range				

Sample Name: 480-198746-A-27-B Acquired: 6/9/2022 21:51:41 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00128**	**.23381**	**.00828**	**.10420**	**.50776**
Stddev	.00030	.01140	.00004	.00023	.00675
%RSD	23.789	4.8741	.53771	.21893	1.3289
#1	-.00107	.22575	.00831	.10404	.51254
#2	-.00150	.24186	.00825	.10436	.50299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**59.976**	**.00288**	**-.0413**	**.00008**
Stddev	.00005	.036	.00015	.0042	.00014
%RSD	56.890	.05928	5.1898	10.22	174.28
#1	.00005	60.001	.00299	-.0443	.00018
#2	.00013	59.951	.00278	-.0383	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00374**	**.00187**	**.13639**	**3.0883**	**.00689**
Stddev	.00047	.00017	.00039	.0224	.00011
%RSD	12.455	8.8438	.28390	.72568	1.6527
#1	.00407	.00199	.13666	3.1042	.00681
#2	.00341	.00175	.13611	3.0725	.00697
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-27-B Acquired: 6/9/2022 21:51:41 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.1924**	**.10967**	**-.00183**	F **1489.2**	**.00558**
Stddev	.0155	.00006	.00005	1.9	.00006
%RSD	.18858	.05404	2.7532	.12469	.99124
#1	8.2033	.10972	-.00179	1490.5	.00562
#2	8.1814	.10963	-.00186	1487.9	.00554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.40**	**.04722**	**.38473**	**.00012**	**-.00851**
Stddev	.00	.00100	.00087	.00151	.00140
%RSD	.0048	2.1263	.22493	1282.7	16.516
#1	25.40	.04793	.38412	-.00095	-.00751
#2	25.39	.04651	.38534	.00118	-.00950
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5695**	**.00101**	**.20521**	**1.001**	**.00238**
Stddev	.0073	.00002	.00012	.001	.00014
%RSD	.46329	2.0621	.05656	.0554	5.8940
#1	1.5644	.00100	.20513	1.001	.00248
#2	1.5747	.00103	.20529	1.001	.00228
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-27-B Acquired: 6/9/2022 21:51:41 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00115**	**.00003**	**.25824**	**.9996**
Stddev	.00022	.00006	.00032	.0004
%RSD	19.251	187.16	.12218	.0415
#1	.00130	-.00001	.25801	.9999
#2	.00099	.00007	.25846	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2991.8**	**3091.9**	**61132.**	**5650.2**
Stddev	.4	2.5	152.	9.6
%RSD	.01285	.08047	.24934	.16977
#1	2991.5	3090.2	61024.	5643.4
#2	2992.1	3093.7	61240.	5657.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.026%	87.550%	84.734%	92.205%
Range				

Sample Name: 480-198746-A-29-B Acquired: 6/9/2022 21:55:43 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00089**	**.17407**	**.00677**	**.06860**	**.83123**
Stddev	.00011	.00722	.00036	.00005	.00059
%RSD	12.324	4.1482	5.2822	.07151	.07067
#1	-.00097	.17918	.00702	.06856	.83164
#2	-.00082	.16897	.00651	.06863	.83081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**166.95**	**.00629**	**-.0143**	**.00065**
Stddev	.00004	.29	.00020	.0146	.00006
%RSD	21.400	.17263	3.1042	101.8	9.3463
#1	.00015	167.15	.00616	-.0246	.00061
#2	.00020	166.74	.00643	-.0040	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01531**	**.00201**	**.06006**	**3.5822**	**.00736**
Stddev	.00067	.00030	.00067	.0308	.00071
%RSD	4.4016	14.830	1.1231	.86063	9.6898
#1	.01579	.00222	.06054	3.5604	.00685
#2	.01484	.00180	.05958	3.6040	.00786
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-29-B Acquired: 6/9/2022 21:55:43 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.8194**	**.24016**	**-.00205**	F **1477.3**	**.00641**
Stddev	.0074	.00028	.00019	1.9	.00023
%RSD	.09414	.11510	9.4467	.13132	3.5569
#1	7.8246	.24035	-.00191	1478.7	.00658
#2	7.8142	.23996	-.00218	1475.9	.00625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.23**	**1.6262**	**.37210**	**.00294**	**-.01318**
Stddev	.00	.0104	.00244	.00235	.00086
%RSD	.0123	.64177	.65654	79.917	6.5032
#1	25.23	1.6336	.37038	.00461	-.01378
#2	25.22	1.6188	.37383	.00128	-.01257
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0965**	**.00151**	**.25179**	**.9968**	**.00126**
Stddev	.0085	.00096	.00081	.0038	.00003
%RSD	.77756	63.347	.32099	.3835	2.1113
#1	1.0905	.00083	.25236	.9941	.00124
#2	1.1025	.00219	.25122	.9995	.00128
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-29-B Acquired: 6/9/2022 21:55:43 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00183**	**.00027**	**.09854**	**.9993**
Stddev	.00032	.00029	.00070	.0000
%RSD	17.433	109.64	.71511	.0012
#1	.00206	.00006	.09904	.9993
#2	.00161	.00048	.09804	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2942.0**	**3046.3**	**60711.**	**5596.0**
Stddev	1.1	4.3	83.	1.3
%RSD	.03772	.14173	.13709	.02383
#1	2941.2	3049.3	60652.	5595.0
#2	2942.8	3043.2	60770.	5596.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.777%	86.257%	84.151%	91.320%
Range				

Sample Name: 480-198746-A-31-B Acquired: 6/9/2022 21:59:48 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00085**	**.44382**	**.00151**	**.08490**	**.52968**
Stddev	.00040	.00383	.00115	.00004	.00065
%RSD	47.699	.86255	75.993	.04431	.12299
#1	-.00056	.44653	.00232	.08493	.52922
#2	-.00114	.44111	.00070	.08488	.53014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**44.065**	**.00328**	**.0110**	**.00018**
Stddev	.00008	.089	.00004	.0010	.00000
%RSD	38.012	.20115	1.3165	9.118	2.6534
#1	.00026	44.003	.00325	.0103	.00019
#2	.00015	44.128	.00331	.0117	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**.00310**	**.25814**	**2.8933**	**.00613**
Stddev	.00052	.00062	.00314	.0389	.00089
%RSD	25.256	19.917	1.2165	1.3428	14.471
#1	.00244	.00354	.25592	2.8658	.00675
#2	.00170	.00267	.26036	2.9208	.00550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-31-B Acquired: 6/9/2022 21:59:48 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8668**	**.07065**	**-.00211**	F **1481.5**	**.00489**
Stddev	.0019	.00007	.00009	5.6	.00015
%RSD	.03988	.10300	4.5031	.37701	3.0061
#1	4.8655	.07060	-.00204	1477.5	.00499
#2	4.8682	.07070	-.00217	1485.4	.00479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.14**	**.06076**	**.18306**	**.00146**	**-.00645**
Stddev	.00	.00040	.00128	.00313	.00128
%RSD	.0022	.66255	.69783	214.37	19.908
#1	25.14	.06104	.18215	.00367	-.00736
#2	25.14	.06048	.18396	-.00075	-.00554
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.3613**	**.00025**	**.15288**	**1.001**	**.00620**
Stddev	.0056	.00026	.00047	.003	.00042
%RSD	.41441	100.89	.31002	.3233	6.8342
#1	1.3573	.00043	.15254	.9986	.00650
#2	1.3652	.00007	.15321	1.003	.00590
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-31-B Acquired: 6/9/2022 21:59:48 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.00050**	**.17535**	**.9991**
Stddev	.00187	.00020	.00209	.0000
%RSD	1306.0	39.499	1.1937	.0036
#1	.00118	.00036	.17683	.9992
#2	-.00147	.00064	.17387	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3006.4**	**3093.0**	**61500.**	**5611.7**
Stddev	4.7	4.0	158.	12.8
%RSD	.15703	.13069	.25670	.22774
#1	3003.1	3090.1	61611.	5620.7
#2	3009.8	3095.9	61388.	5602.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.393%	87.581%	85.244%	91.577%
Range				

Sample Name: 480-198746-A-33-B Acquired: 6/9/2022 22:03:51 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00111**	**.31329**	**.00259**	**.07033**	**.82349**
Stddev	.00001	.02346	.00045	.00033	.00024
%RSD	.53484	7.4884	17.307	.46686	.02958
#1	-.00112	.29670	.00227	.07010	.82332
#2	-.00111	.32988	.00290	.07056	.82367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**153.38**	**.00535**	**-.0417**	**.00915**
Stddev	.00004	.02	.00001	.0253	.00019
%RSD	9.9976	.01378	.23268	60.76	2.0614
#1	.00037	153.36	.00535	-.0596	.00902
#2	.00043	153.39	.00534	-.0238	.00929
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00718**	**.06214**	**3.2083**	**.00637**
Stddev	.00053	.00028	.00115	.0398	.00104
%RSD	156.71	3.9107	1.8557	1.2409	16.358
#1	-.00004	.00698	.06133	3.1802	.00563
#2	.00071	.00738	.06296	3.2365	.00710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-33-B Acquired: 6/9/2022 22:03:51 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.0507**	**1.6796**	**-.00227**	F **1478.9**	**.01592**
Stddev	.0046	.0008	.00013	.7	.00022
%RSD	.06560	.04546	5.9127	.04700	1.3654
#1	7.0539	1.6791	-.00237	1478.5	.01577
#2	7.0474	1.6802	-.00218	1479.4	.01608
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.05333**	**.16909**	**.00127**	**-.01042**
Stddev	.00	.00027	.00301	.00119	.00077
%RSD	.0037	.51287	1.7776	93.563	7.4320
#1	25.02	.05353	.17122	.00043	-.00988
#2	25.02	.05314	.16697	.00211	-.01097
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.86453**	**.00052**	**.22143**	**.9975**	**.00056**
Stddev	.02046	.00064	.00029	.0029	.00043
%RSD	2.3665	123.40	.13093	.2931	77.894
#1	.87900	.00007	.22123	.9995	.00086
#2	.85006	.00097	.22164	.9954	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198746-A-33-B Acquired: 6/9/2022 22:03:51 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00063**	**.00024**	**.36517**	**.9985**
Stddev	.00019	.00015	.00252	.0003
%RSD	30.454	62.601	.68960	.0335
#1	.00077	.00013	.36696	.9988
#2	.00050	.00035	.36339	.9983
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2948.5**	**3063.5**	**60986.**	**5623.8**
Stddev	1.4	.6	165.	3.1
%RSD	.04811	.01852	.27075	.05529
#1	2947.5	3063.9	60869.	5621.6
#2	2949.5	3063.1	61103.	5626.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.940%	86.746%	84.532%	91.774%
Range				

Sample Name: MB 480-629431/1-A Acquired: 6/9/2022 22:07:52 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**-.02193**	**-.00065**	**-.00050**	**.00007**
Stddev	.00032	.01787	.00132	.00002	.00001
%RSD	72.733	81.507	201.47	3.3462	9.6908
#1	-.00021	-.03457	.00028	-.00051	.00006
#2	-.00066	-.00929	-.00158	-.00049	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.04201**	**.00007**	**-.0108**	**-.00004**
Stddev	.00004	.00022	.00003	.0100	.00013
%RSD	95.375	.51370	41.768	93.20	291.31
#1	.00002	.04185	.00005	-.0179	.00005
#2	.00008	.04216	.00009	-.0037	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00063**	**.01570**	**.18023**	**.00024**
Stddev	.00016	.00000	.00030	.02092	.00011
%RSD	53.658	.07240	1.8968	11.606	47.481
#1	.00018	.00063	.01548	.19502	.00016
#2	.00040	.00063	.01591	.16543	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629431/1-A Acquired: 6/9/2022 22:07:52 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00135**	**.00022**	**-.00163**	**.81827**	**.00002**
Stddev	.00404	.00003	.00007	.02923	.00025
%RSD	298.78	14.913	4.2856	3.5726	1195.6
#1	-.00151	.00019	-.00168	.83894	.00020
#2	.00421	.00024	-.00158	.79760	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00035**	**-.00384**	**-.00197**	**-.00562**
Stddev	.00	.00086	.00100	.00276	.00291
%RSD	.0034	247.50	26.159	139.61	51.678
#1	25.00	-.00096	-.00455	-.00003	-.00768
#2	25.00	.00026	-.00313	-.00392	-.00357
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02214**	**-.00068**	**.00021**	**.9956**	**-.00034**
Stddev	.01203	.00005	.00002	.0015	.00001
%RSD	54.339	6.6639	8.8438	.1536	1.9875
#1	-.01363	-.00065	.00020	.9967	-.00034
#2	-.03064	-.00072	.00022	.9945	-.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629431/1-A Acquired: 6/9/2022 22:07:52 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00110**	**-.00021**	**.00099**	**.9993**
Stddev	.00014	.00018	.00030	.0005
%RSD	12.586	84.840	30.172	.0545
#1	.00119	-.00008	.00121	.9996
#2	.00100	-.00033	.00078	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3959.9**	**3505.4**	**71495.**	**5841.5**
Stddev	.6	2.6	104.	.0
%RSD	.01583	.07331	.14565	.00061
#1	3959.5	3503.6	71569.	5841.5
#2	3960.4	3507.2	71421.	5841.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.303%	99.259%	99.099%	95.327%
Range				

Sample Name: LCS 480-629431/2-A Acquired: 6/9/2022 22:11:46 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04905**	**10.145**	**.20269**	**.20314**	**.21391**
Stddev	.00038	.045	.00336	.00064	.00017
%RSD	.77906	.44625	1.6599	.31301	.07797
#1	.04878	10.113	.20506	.20359	.21403
#2	.04932	10.177	.20031	.20269	.21379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20744**	**10.169**	**.19980**	**-.0278**	**.20013**
Stddev	.00012	.028	.00026	.0061	.00041
%RSD	.05860	.27932	.13191	21.78	.20553
#1	.20752	10.189	.19961	-.0235	.19984
#2	.20735	10.149	.19998	-.0321	.20042
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20239**	**.20757**	**10.322**	**10.349**	**.20128**
Stddev	.00026	.00017	.007	.014	.00119
%RSD	.12778	.08307	.06828	.13924	.59166
#1	.20221	.20770	10.327	10.338	.20043
#2	.20257	.20745	10.317	10.359	.20212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629431/2-A Acquired: 6/9/2022 22:11:46 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.466**	**.20859**	**.20605**	**10.378**	**.19754**
Stddev	.007	.00010	.00072	.007	.00027
%RSD	.06277	.04749	.34843	.06939	.13830
#1	10.462	.20866	.20655	10.383	.19773
#2	10.471	.20852	.20554	10.373	.19734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.20086**	**9.9000**	**.20804**	**.19455**
Stddev	.00	.00061	.0080	.00048	.00362
%RSD	.0010	.30299	.08055	.23278	1.8588
#1	25.00	.20129	9.8943	.20838	.19711
#2	25.00	.20043	9.9056	.20769	.19199
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8237**	F **.24621**	**.20761**	**1.004**	**.20487**
Stddev	.0077	.00054	.00015	.001	.00051
%RSD	.07818	.21941	.07033	.0511	.24840
#1	9.8291	.24583	.20771	1.004	.20523
#2	9.8183	.24659	.20751	1.005	.20451
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: LCS 480-629431/2-A Acquired: 6/9/2022 22:11:46 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20659**	**.20242**	**.20374**	**1.000**
Stddev	.00085	.00051	.00107	.000
%RSD	.41368	.25280	.52349	.0418
#1	.20599	.20278	.20299	.9998
#2	.20719	.20205	.20450	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3741.0**	**3458.6**	**70004.**	**5843.1**
Stddev	1.7	.7	29.	18.9
%RSD	.04479	.02159	.04078	.32431
#1	3742.2	3459.1	69984.	5829.7
#2	3739.8	3458.0	70024.	5856.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.814%	97.932%	97.032%	95.353%
Range				

Sample Name: LCSD 480-629431/3-A Acquired: 6/9/2022 22:15:26 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04722**	**9.7710**	**.19380**	**.19520**	**.20509**
Stddev	.00027	.0393	.00071	.00081	.00039
%RSD	.56751	.40211	.36667	.41400	.18936
#1	.04703	9.7988	.19330	.19577	.20482
#2	.04741	9.7432	.19430	.19463	.20537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20115**	**9.8755**	**.19286**	**-.0085**	**.19280**
Stddev	.00097	.0400	.00058	.0287	.00009
%RSD	.48116	.40483	.29968	338.2	.04888
#1	.20184	9.9038	.19327	.0118	.19273
#2	.20047	9.8473	.19245	-.0288	.19286
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19604**	**.20008**	**10.007**	**9.9598**	**.19414**
Stddev	.00056	.00007	.021	.0071	.00072
%RSD	.28469	.03560	.20491	.07163	.37066
#1	.19643	.20003	10.021	9.9649	.19465
#2	.19564	.20013	9.9923	9.9548	.19363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSD 480-629431/3-A Acquired: 6/9/2022 22:15:26 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.143**	**.20102**	**.19959**	**9.9874**	**.19033**
Stddev	.004	.00021	.00099	.0342	.00015
%RSD	.03731	.10447	.49690	.34202	.07780
#1	10.146	.20087	.20030	10.012	.19043
#2	10.140	.20117	.19889	9.9632	.19023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.19345**	**9.5220**	**.19999**	**.19150**
Stddev	.00	.00035	.0070	.00066	.00078
%RSD	.0007	.17839	.07329	.33014	.40674
#1	25.00	.19321	9.5269	.19953	.19095
#2	25.00	.19369	9.5171	.20046	.19205
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4695**	F **.23647**	**.19924**	**1.002**	**.19732**
Stddev	.0428	.00077	.00040	.004	.00109
%RSD	.45213	.32628	.20318	.4342	.55039
#1	9.4998	.23701	.19952	.9987	.19655
#2	9.4392	.23592	.19895	1.005	.19809
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: LCSD 480-629431/3-A Acquired: 6/9/2022 22:15:26 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19880**	**.19471**	**.19536**	**.9990**
Stddev	.00027	.00012	.00016	.0003
%RSD	.13702	.05979	.08332	.0293
#1	.19900	.19479	.19548	.9992
#2	.19861	.19463	.19525	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3742.8**	**3455.1**	**69841.**	**5814.4**
Stddev	4.1	6.9	34.	24.0
%RSD	.11054	.20012	.04921	.41286
#1	3739.9	3450.3	69817.	5797.4
#2	3745.7	3460.0	69866.	5831.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.859%	97.835%	96.807%	94.884%
Range				

Sample Name: CCV-7024752 Acquired: 6/9/2022 22:19:08 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99734**	**49.677**	**1.0038**	**1.0259**	**.99512**
Stddev	.00060	.116	.0053	.0018	.00322
%RSD	.05994	.23412	.53150	.17348	.32314
#1	.99691	49.759	1.0076	1.0247	.99740
#2	.99776	49.594	1.0001	1.0272	.99285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99433**	**50.165**	**1.0092**	**.9684**	**1.0029**
Stddev	.00441	.211	.0002	.0192	.0006
%RSD	.44351	.42023	.01625	1.980	.06061
#1	.99745	50.314	1.0093	.9548	1.0033
#2	.99121	50.016	1.0091	.9819	1.0025
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0061**	**1.0063**	**51.288**	**50.979**	**.99011**
Stddev	.0029	.0015	.209	.171	.00202
%RSD	.28546	.14478	.40753	.33591	.20432
#1	1.0041	1.0053	51.436	51.100	.99154
#2	1.0081	1.0074	51.140	50.858	.98868
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 22:19:08 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.782**	**1.0224**	**1.0075**	**50.438**	**1.0091**
Stddev	.074	.0010	.0018	.193	.0010
%RSD	.14564	.09582	.17836	.38273	.10165
#1	50.729	1.0217	1.0088	50.574	1.0099
#2	50.834	1.0231	1.0062	50.301	1.0084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.76**	**1.0111**	**25.250**	**.99673**	**1.0077**
Stddev	.01	.0024	.012	.00190	.0088
%RSD	.0188	.23496	.04946	.19101	.87218
#1	37.77	1.0128	25.259	.99808	1.0139
#2	37.76	1.0094	25.241	.99538	1.0015
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9730**	**1.0104**	**1.0082**	**1.506**	**1.0045**
Stddev	.0017	.0016	.0036	.002	.0005
%RSD	.01669	.15738	.35979	.0978	.04897
#1	9.9742	1.0115	1.0108	1.505	1.0049
#2	9.9718	1.0093	1.0056	1.507	1.0042
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 22:19:08 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0194**	**1.0133**	**1.0503**	**1.506**
Stddev	.0023	.0016	.0018	.002
%RSD	.22405	.15460	.17294	.1408
#1	1.0178	1.0122	1.0490	1.507
#2	1.0210	1.0144	1.0516	1.504
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3434.2**	**3373.4**	**67301.**	**5713.2**
Stddev	.4	.8	188.	29.5
%RSD	.01274	.02502	.27956	.51662
#1	3434.5	3372.8	67434.	5692.3
#2	3433.9	3374.0	67168.	5734.0

Sample Name: CCB-7026764 Acquired: 6/9/2022 22:22:48 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**-.02556**	**.00053**	**.00038**	**.00003**
Stddev	.00012	.00725	.00106	.00058	.00001
%RSD	20.534	28.354	199.25	154.61	34.691
#1	-.00068	-.03069	-.00022	.00079	.00003
#2	-.00051	-.02044	.00128	-.00004	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00183**	**.00009**	**-.0195**	**-.00006**
Stddev	.00002	.00180	.00005	.0030	.00004
%RSD	70.617	98.713	60.051	15.62	77.696
#1	.00005	.00055	.00012	-.0173	-.00009
#2	.00002	.00310	.00005	-.0216	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00016**	**.00842**	**.05600**	**-.00059**
Stddev	.00033	.00021	.00053	.04928	.00029
%RSD	466.10	129.62	6.2725	88.002	48.897
#1	.00031	.00001	.00879	.02115	-.00039
#2	-.00016	.00030	.00804	.09084	-.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 22:22:48 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00008**	**.00264**	**.24022**	**.00018**
Stddev	.00075	.00000	.00040	.00328	.00019
%RSD	216.66	5.7645	15.043	1.3640	109.20
#1	-.00018	.00008	.00236	.23790	.00031
#2	.00087	.00009	.00292	.24253	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00001**	**-.01804**	**-.00197**	**.00064**
Stddev	.00	.00040	.00043	.00099	.00002
%RSD	.0014	2698.7	2.3962	50.489	3.1610
#1	25.00	-.00030	-.01834	-.00267	.00066
#2	25.00	.00027	-.01773	-.00127	.00063
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01022**	**.00023**	**.00008**	**.9975**	**.00029**
Stddev	.00068	.00046	.00012	.0039	.00000
%RSD	6.6417	199.69	136.21	.3887	1.3700
#1	-.00974	-.00009	.00017	.9947	.00028
#2	-.01070	.00055	.00000	1.000	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 22:22:48 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00120**	**-.00020**	**-.00024**	**.9999**
Stddev	.00013	.00002	.00006	.0000
%RSD	10.423	8.7250	25.831	.0015
#1	.00129	-.00019	-.00028	.9999
#2	.00111	-.00022	-.00020	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4023.7**	**3563.1**	**72509.**	**5838.8**
Stddev	.7	7.2	90.	7.4
%RSD	.01833	.20124	.12452	.12606
#1	4024.2	3558.1	72446.	5844.1
#2	4023.2	3568.2	72573.	5833.6

Sample Name: CCVL-7019501 Acquired: 6/9/2022 22:26:43 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00521**	**.19354**	**.01206**	**.01846**	**.00204**
Stddev	.00006	.00130	.00041	.00006	.00002
%RSD	1.1163	.67245	3.4028	.31059	1.1255
#1	.00525	.19446	.01177	.01850	.00205
#2	.00517	.19262	.01235	.01842	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00203**	**.48963**	**.00204**	**-.0054**	**.00360**
Stddev	.00001	.00464	.00016	.0269	.00001
%RSD	.67881	.94705	7.6172	498.9	.32579
#1	.00204	.48635	.00193	-.0244	.00359
#2	.00202	.49291	.00215	.0136	.00361
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00369**	**.01037**	**.04881**	**.50486**	**.02753**
Stddev	.00059	.00036	.00082	.00589	.00150
%RSD	16.012	3.4615	1.6873	1.1657	5.4467
#1	.00327	.01062	.04939	.50069	.02859
#2	.00411	.01011	.04823	.50902	.02647
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7019501 Acquired: 6/9/2022 22:26:43 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19305**	**.00295**	**.00924**	**1.1674**	**.00948**
Stddev	.00243	.00006	.00015	.0021	.00015
%RSD	1.2570	1.9690	1.6004	.17758	1.6130
#1	.19133	.00299	.00914	1.1659	.00937
#2	.19476	.00291	.00935	1.1688	.00958
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00836**	**.16036**	**.01875**	**.01944**
Stddev	.00	.00239	.00330	.00161	.00091
%RSD	.0019	28.635	2.0590	8.6040	4.6879
#1	25.00	.00666	.16269	.01989	.02008
#2	25.00	.01005	.15802	.01761	.01879
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44948**	**.00800**	**.00490**	F **.9981**	**.00433**
Stddev	.00379	.00100	.00013	.0005	.00014
%RSD	.84291	12.495	2.6337	.0476	3.3286
#1	.44680	.00729	.00481	.9978	.00422
#2	.45216	.00870	.00499	.9984	.00443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7019501 Acquired: 6/9/2022 22:26:43 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02022**	**.00458**	W **.00666**	F **1.000**
Stddev	.00170	.00005	.00002	.000
%RSD	8.4066	1.0644	.36946	.0320
#1	.02142	.00462	.00668	1.0000
#2	.01902	.00455	.00664	1.000
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Fail
Value			.01000	.0060
Range			-30.000%	50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4006.9**	**3568.1**	**72553.**	**5854.2**
Stddev	4.8	2.7	4.	59.7
%RSD	.12088	.07506	.00619	1.0203
#1	4003.4	3566.2	72550.	5896.4
#2	4010.3	3570.0	72557.	5811.9

Sample Name: 620-4843-I-1-D Acquired: 6/9/2022 22:30:35 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00072**	**11.094**	**.00108**	**.00684**	**.05168**
Stddev	.00030	.005	.00217	.00049	.00016
%RSD	41.624	.04897	201.28	7.1544	.30179
#1	-.00051	11.098	.00261	.00650	.05157
#2	-.00094	11.090	-.00046	.00719	.05179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**5.0620**	**.00008**	**.0236**	**.00139**
Stddev	.00005	.0167	.00009	.0101	.00016
%RSD	10.697	.32905	119.87	43.01	11.790
#1	.00045	5.0503	.00001	.0307	.00150
#2	.00053	5.0738	.00014	.0164	.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00329**	**.00383**	**4.9351**	**3.1649**	**.00324**
Stddev	.00011	.00013	.0225	.0190	.00066
%RSD	3.3012	3.3637	.45636	.60061	20.251
#1	.00321	.00374	4.9192	3.1515	.00277
#2	.00337	.00392	4.9511	3.1783	.00370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4843-I-1-D Acquired: 6/9/2022 22:30:35 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2252**	**.09475**	**-.00097**	**3.5754**	**.00231**
Stddev	.0045	.00013	.00001	.0026	.00001
%RSD	.36843	.14057	1.4690	.07158	.38238
#1	1.2284	.09484	-.00096	3.5735	.00230
#2	1.2220	.09465	-.00098	3.5772	.00231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.25**	**.00270**	**1.7609**	**-.00142**	**-.00471**
Stddev	.00	.00001	.0047	.00088	.00504
%RSD	.0032	.48955	.26443	61.821	106.96
#1	25.24	.00271	1.7576	-.00205	-.00115
#2	25.25	.00270	1.7642	-.00080	-.00827
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.627**	**.00025**	**.02634**	**1.004**	**.46625**
Stddev	.021	.00057	.00007	.001	.00101
%RSD	.18113	224.19	.28376	.0977	.21635
#1	11.612	.00066	.02629	1.004	.46554
#2	11.642	-.00015	.02639	1.005	.46697
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4843-I-1-D Acquired: 6/9/2022 22:30:35 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00225**	**.00695**	**.01033**	**.9997**
Stddev	.00122	.00007	.00069	.0001
%RSD	54.463	.97138	6.7090	.0130
#1	.00311	.00700	.01082	.9997
#2	.00138	.00690	.00984	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3884.4**	**3568.8**	**72241.**	**6015.4**
Stddev	.6	1.6	62.	19.1
%RSD	.01646	.04401	.08599	.31695
#1	3884.9	3567.7	72285.	6028.9
#2	3884.0	3569.9	72197.	6002.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.410%	101.05%	100.13%	98.165%
Range				

Sample Name: 620-4843-I-2-D Acquired: 6/9/2022 22:34:25 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00134**	**.15011**	**.00653**	**.47705**	**.20446**
Stddev	.00046	.01658	.00213	.00109	.00024
%RSD	34.234	11.046	32.672	.22946	.11707
#1	-.00102	.13839	.00804	.47627	.20430
#2	-.00167	.16184	.00502	.47782	.20463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**146.82**	**-.00000**	**-.0274**	**.00051**
Stddev	.00003	.25	.00010	.0113	.00004
%RSD	40.282	.17308	3886.2	41.20	7.3665
#1	.00010	147.00	.00007	-.0194	.00054
#2	.00006	146.64	-.00008	-.0354	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00298**	**.00002**	**63.168**	**15.513**	**.00203**
Stddev	.00000	.00047	.092	.035	.00075
%RSD	.15594	1964.5	.14589	.22262	36.801
#1	.00298	-.00031	63.103	15.537	.00150
#2	.00297	.00035	63.233	15.488	.00256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4843-I-2-D Acquired: 6/9/2022 22:34:25 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.558**	**.40172**	**.00895**	**11.155**	**.00321**
Stddev	.012	.00014	.00023	.003	.00005
%RSD	.07016	.03594	2.5554	.02986	1.5188
#1	16.566	.40182	.00879	11.158	.00324
#2	16.550	.40162	.00912	11.153	.00317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.17**	**.02457**	**15.818**	**-.00089**	**-.00957**
Stddev	.00	.00128	.012	.00164	.00011
%RSD	.0022	5.2121	.07537	184.83	1.1263
#1	25.17	.02366	15.826	.00027	-.00950
#2	25.17	.02547	15.809	-.00205	-.00965
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.9361**	**-.00103**	**.54481**	**1.027**	**.01008**
Stddev	.0077	.00034	.00083	.005	.00015
%RSD	.13041	33.521	.15153	.4783	1.5375
#1	5.9416	-.00127	.54539	1.030	.00997
#2	5.9307	-.00078	.54422	1.024	.01019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4843-I-2-D Acquired: 6/9/2022 22:34:25 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00181**	**.00173**	**.20302**	**1.000**
Stddev	.00008	.00012	.00097	.001
%RSD	4.4949	7.0949	.47917	.0849
#1	.00187	.00182	.20234	1.001
#2	.00175	.00164	.20371	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3439.1**	**3273.5**	**66510.**	**5668.7**
Stddev	3.6	.5	56.	14.2
%RSD	.10345	.01550	.08452	.24992
#1	3441.7	3273.9	66470.	5658.7
#2	3436.6	3273.2	66550.	5678.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.244%	92.693%	92.189%	92.506%
Range				

Sample Name: 620-4843-I-3-D Acquired: 6/9/2022 22:38:12 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00092**	**1.8398**	**.00347**	**.02397**	**.05250**
Stddev	.00028	.0170	.00012	.00051	.00010
%RSD	30.841	.92480	3.5545	2.1373	.19776
#1	-.00072	1.8277	.00338	.02433	.05257
#2	-.00112	1.8518	.00356	.02361	.05243
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**14.900**	**.00007**	**-.0185**	**.00140**
Stddev	.00001	.088	.00011	.0294	.00003
%RSD	14.323	.59376	156.11	158.5	2.3447
#1	.00003	14.962	.00015	.0022	.00138
#2	.00004	14.837	-.00001	-.0393	.00142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00155**	**.00190**	**37.617**	**2.6907**	**-.00036**
Stddev	.00006	.00024	.166	.0226	.00092
%RSD	3.6547	12.845	.44066	.83869	255.27
#1	.00151	.00172	37.734	2.7066	-.00102
#2	.00159	.00207	37.500	2.6747	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4843-I-3-D Acquired: 6/9/2022 22:38:12 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5718**	**.47698**	**-.00151**	**2.7571**	**.00147**
Stddev	.0090	.00020	.00005	.0130	.00001
%RSD	.57405	.04176	3.3063	.47233	.64545
#1	1.5782	.47712	-.00154	2.7663	.00146
#2	1.5654	.47684	-.00147	2.7479	.00148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.09**	**.00398**	**1.3121**	**.00035**	**-.00485**
Stddev	.00	.00065	.0002	.00050	.00103
%RSD	.0023	16.430	.01772	142.75	21.234
#1	25.09	.00444	1.3119	.00071	-.00412
#2	25.09	.00351	1.3122	-.00000	-.00558
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.0577**	**-.00030**	**.05131**	**1.013**	**.16940**
Stddev	.0072	.00008	.00011	.000	.00022
%RSD	.10161	26.015	.21409	.0097	.13079
#1	7.0628	-.00036	.05138	1.013	.16955
#2	7.0527	-.00025	.05123	1.013	.16924
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4843-I-3-D Acquired: 6/9/2022 22:38:12 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00118**	**.00401**	**.00880**	**1.000**
Stddev	.00151	.00026	.00008	.000
%RSD	128.30	6.5921	.85968	.0128
#1	.00224	.00420	.00885	1.000
#2	.00011	.00382	.00875	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3755.6**	**3422.6**	**69827.**	**5749.9**
Stddev	5.0	2.2	224.	28.0
%RSD	.13403	.06411	.32097	.48692
#1	3759.2	3424.2	69668.	5730.1
#2	3752.0	3421.1	69985.	5769.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.180%	96.914%	96.786%	93.832%
Range				

Sample Name: 620-4843-I-4-D Acquired: 6/9/2022 22:42:01 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00159**	**.19222**	**.00013**	**.06042**	**.06953**
Stddev	.00011	.01813	.00195	.00045	.00002
%RSD	7.0054	9.4346	1470.1	.74732	.02343
#1	-.00167	.17939	-.00125	.06074	.06954
#2	-.00151	.20504	.00151	.06010	.06952
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**27.722**	**.00004**	**-.0279**	**.00049**
Stddev	.00002	.046	.00007	.0103	.00010
%RSD	147.14	.16734	180.10	37.08	20.367
#1	-.00003	27.755	-.00001	-.0352	.00042
#2	.00000	27.689	.00008	-.0206	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**-.00000**	**39.088**	**3.9340**	**.00173**
Stddev	.00025	.00011	.023	.0050	.00102
%RSD	51.174	16029.	.05909	.12790	59.104
#1	.00066	-.00008	39.104	3.9376	.00246
#2	.00031	.00008	39.072	3.9305	.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4843-I-4-D Acquired: 6/9/2022 22:42:01 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.7601**	**.46893**	**-.00189**	**3.4321**	**.00062**
Stddev	.0034	.00064	.00023	.0051	.00003
%RSD	.19340	.13630	12.125	.14785	4.0837
#1	1.7577	.46938	-.00205	3.4357	.00064
#2	1.7625	.46847	-.00172	3.4285	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00335**	**1.4317**	**-.00178**	**-.00783**
Stddev	.00	.00083	.0033	.00046	.00083
%RSD	.0063	24.786	.22850	25.642	10.580
#1	25.02	.00276	1.4340	-.00146	-.00724
#2	25.02	.00394	1.4294	-.00210	-.00841
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.5928**	**-.00079**	**.10393**	**1.017**	**.01544**
Stddev	.0253	.00019	.00005	.003	.00039
%RSD	.45293	23.787	.04555	.3391	2.5255
#1	5.5749	-.00093	.10396	1.020	.01517
#2	5.6107	-.00066	.10390	1.015	.01572
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4843-I-4-D Acquired: 6/9/2022 22:42:01 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00074**	**.00242**	**.9992**
Stddev	.00004	.00032	.00009	.0000
%RSD	33.737	43.108	3.8603	.0027
#1	-.00013	.00051	.00235	.9992
#2	-.00008	.00096	.00248	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3741.6**	**3413.6**	**69168.**	**5749.5**
Stddev	.7	.7	263.	19.0
%RSD	.01979	.01926	.37960	.32981
#1	3742.1	3413.1	68983.	5736.1
#2	3741.1	3414.0	69354.	5762.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.828%	96.658%	95.874%	93.825%
Range				

Sample Name: 620-4843-I-5-D Acquired: 6/9/2022 22:45:50 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**37.567**	**.00541**	**.00987**	**.26252**
Stddev	.00035	.027	.00000	.00086	.00074
%RSD	99.328	.07271	.07550	8.7581	.28165
#1	-.00059	37.547	.00541	.00926	.26304
#2	-.00010	37.586	.00540	.01048	.26200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00124**	**14.314**	**.00002**	**.1931**	**.01202**
Stddev	.00001	.008	.00008	.0047	.00019
%RSD	.88281	.05447	345.62	2.412	1.5582
#1	.00125	14.320	.00008	.1964	.01215
#2	.00123	14.309	-.00003	.1898	.01188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02215**	**.01700**	**38.968**	**8.3717**	**.02486**
Stddev	.00030	.00078	.059	.0015	.00098
%RSD	1.3330	4.5903	.15018	.01779	3.9276
#1	.02235	.01756	39.009	8.3706	.02555
#2	.02194	.01645	38.927	8.3728	.02417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4843-I-5-D Acquired: 6/9/2022 22:45:50 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.7291**	**.66427**	**-.00157**	**7.1540**	**.01644**
Stddev	.0083	.00004	.00019	.0170	.00006
%RSD	.09491	.00605	11.827	.23769	.39110
#1	8.7233	.66424	-.00144	7.1420	.01649
#2	8.7350	.66430	-.00171	7.1660	.01640
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.37**	**.01899**	**1.3822**	**-.00135**	**-.00582**
Stddev	.00	.00078	.0014	.00052	.00293
%RSD	.0021	4.1191	.09847	38.280	50.330
#1	26.37	.01844	1.3831	-.00172	-.00375
#2	26.37	.01955	1.3812	-.00099	-.00789
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**43.318**	**.00064**	**.06155**	**1.026**	**3.5304**
Stddev	.019	.00061	.00013	.005	.0049
%RSD	.04363	95.255	.21456	.4456	.13730
#1	43.331	.00021	.06164	1.023	3.5338
#2	43.305	.00107	.06146	1.029	3.5269
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4843-I-5-D Acquired: 6/9/2022 22:45:50 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00132**	**.05433**	**.08041**	**1.004**
Stddev	.00034	.00046	.00035	.002
%RSD	25.555	.85272	.43687	.1866
#1	-.00108	.05466	.08016	1.003
#2	-.00156	.05401	.08066	1.006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3660.4**	**3606.0**	**72869.**	**6098.1**
Stddev	4.7	3.6	43.	5.0
%RSD	.12889	.09944	.05966	.08162
#1	3657.1	3603.5	72838.	6094.6
#2	3663.8	3608.5	72900.	6101.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.793%	102.11%	101.00%	99.515%
Range				

Sample Name: 620-4843-I-5-Dsd@5 Acquired: 6/9/2022 22:49:36 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**7.9303**	**-.00085**	**.00142**	**.05555**
Stddev	.00015	.0062	.00110	.00006	.00009
%RSD	137.15	.07832	128.56	3.9175	.16347
#1	-.00000	7.9347	-.00008	.00138	.05561
#2	-.00021	7.9260	-.00163	.00146	.05548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**3.0566**	**.00011**	**.0632**	**.00240**
Stddev	.00002	.0063	.00003	.0236	.00001
%RSD	6.9053	.20588	28.598	37.36	.55083
#1	.00030	3.0611	.00009	.0465	.00241
#2	.00028	3.0522	.00013	.0799	.00239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00438**	**.00389**	**8.3933**	**1.7756**	**.00488**
Stddev	.00004	.00023	.0270	.0188	.00064
%RSD	.82814	5.8629	.32213	1.0582	13.068
#1	.00436	.00372	8.3742	1.7889	.00533
#2	.00441	.00405	8.4124	1.7624	.00443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4843-I-5-Dsd@5 Acquired: 6/9/2022 22:49:36 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8574**	**.14232**	**-.00150**	**1.5839**	**.00341**
Stddev	.0034	.00008	.00001	.0052	.00010
%RSD	.18577	.05279	.94506	.32919	3.0176
#1	1.8598	.14237	-.00151	1.5876	.00348
#2	1.8549	.14227	-.00149	1.5802	.00334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.29**	**.00332**	**.26766**	**-.00066**	**-.00480**
Stddev	.00	.00086	.00151	.00021	.00420
%RSD	.0020	25.839	.56279	31.594	87.457
#1	25.29	.00393	.26872	-.00081	-.00183
#2	25.29	.00272	.26659	-.00051	-.00776
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.1827**	**-.00066**	**.01308**	**1.005**	**.73675**
Stddev	.1091	.00034	.00006	.004	.00083
%RSD	1.1878	50.809	.44528	.4317	.11231
#1	9.2599	-.00090	.01304	1.002	.73734
#2	9.1056	-.00043	.01312	1.008	.73617
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4843-I-5-Dsd@5 Acquired: 6/9/2022 22:49:36 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00065**	**.01110**	**.01532**	**1.001**
Stddev	.00119	.00004	.00037	.001
%RSD	181.48	.36650	2.3855	.0697
#1	-.00019	.01107	.01558	1.001
#2	.00149	.01113	.01506	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3870.4**	**3525.8**	**71431.**	**5830.5**
Stddev	1.9	1.5	135.	17.7
%RSD	.04915	.04356	.18922	.30303
#1	3871.7	3524.7	71336.	5843.0
#2	3869.1	3526.9	71527.	5818.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.059%	99.836%	99.010%	95.147%
Range				

Sample Name: 620-4843-I-5-DPDS Acquired: 6/9/2022 22:53:25 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04796**	**45.787**	**.20239**	**.20615**	**.45467**
Stddev	.00039	.134	.00211	.00027	.00055
%RSD	.82248	.29351	1.0431	.13318	.12003
#1	.04768	45.692	.20388	.20596	.45505
#2	.04824	45.882	.20089	.20634	.45428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20502**	**23.450**	**.19527**	**.1799**	**.22091**
Stddev	.00029	.035	.00009	.0065	.00056
%RSD	.14326	.14847	.04536	3.633	.25442
#1	.20481	23.425	.19534	.1753	.22051
#2	.20523	23.474	.19521	.1845	.22131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22101**	**.22122**	**47.278**	**18.072**	**.22048**
Stddev	.00049	.00179	.096	.020	.00129
%RSD	.22098	.80919	.20327	.11139	.58720
#1	.22135	.22249	47.346	18.058	.22140
#2	.22066	.21996	47.210	18.086	.21956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4843-I-5-DPDS Acquired: 6/9/2022 22:53:25 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.447**	**.83884**	**.19955**	**16.671**	**.22058**
Stddev	.017	.00131	.00076	.033	.00018
%RSD	.09055	.15592	.37879	.19940	.08274
#1	18.459	.83976	.20008	16.648	.22045
#2	18.435	.83791	.19901	16.695	.22071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.34**	**.22490**	**10.969**	**.20377**	**.18960**
Stddev	.00	.00077	.015	.00014	.00119
%RSD	.0120	.34399	.13787	.07026	.62582
#1	26.34	.22545	10.980	.20367	.19044
#2	26.33	.22435	10.958	.20388	.18876
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **50.952**	**.20766**	**.26039**	**1.030**	**3.6018**
Stddev	.204	.00007	.00007	.004	.0013
%RSD	.40007	.03300	.02827	.3357	.03461
#1	50.808	.20761	.26044	1.028	3.6027
#2	51.096	.20771	.26034	1.033	3.6010
Check ?	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass
High Limit	50.000				
Low Limit	-.50000				

Sample Name: 620-4843-I-5-DPDS Acquired: 6/9/2022 22:53:25 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21169**	**.24807**	**.27561**	**1.005**
Stddev	.00001	.00109	.00087	.000
%RSD	.00639	.44096	.31568	.0024
#1	.21170	.24884	.27499	1.005
#2	.21168	.24729	.27623	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3574.4**	**3582.3**	**72246.**	**6081.6**
Stddev	2.1	6.3	116.	5.3
%RSD	.05790	.17676	.16094	.08779
#1	3575.8	3577.8	72164.	6085.3
#2	3572.9	3586.8	72328.	6077.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.635%	101.44%	100.14%	99.244%
Range				

Sample Name: MB 480-629434/1-A Acquired: 6/9/2022 22:57:09 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**-.03021**	**-.00359**	**-.00053**	**.00004**
Stddev	.00008	.02433	.00037	.00020	.00000
%RSD	41.798	80.548	10.429	38.460	10.767
#1	-.00014	-.01300	-.00333	-.00038	.00004
#2	-.00025	-.04741	-.00386	-.00067	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00745**	**-.00002**	**.0093**	**-.00013**
Stddev	.00001	.00354	.00011	.0030	.00002
%RSD	43.834	47.563	450.97	32.73	15.873
#1	.00002	.00996	.00005	.0114	-.00014
#2	.00004	.00495	-.00010	.0071	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00051**	**.01372**	**.03668**	**-.00018**
Stddev	.00015	.00043	.00311	.01394	.00025
%RSD	278.32	85.794	22.651	37.988	134.69
#1	.00016	.00020	.01152	.02683	-.00036
#2	-.00005	.00081	.01592	.04654	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629434/1-A Acquired: 6/9/2022 22:57:09 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**.00017**	**-.00096**	**.09830**	**.00016**
Stddev	.00337	.00000	.00030	.00320	.00024
%RSD	405.41	.39510	30.859	3.2526	150.46
#1	.00155	.00017	-.00117	.09604	.00034
#2	-.00321	.00017	-.00075	.10057	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00049**	**-.01947**	**-.00118**	**.00016**
Stddev	.00	.00013	.00005	.00111	.00164
%RSD	.0003	25.992	.23777	93.718	1042.0
#1	25.00	.00058	-.01943	-.00197	.00132
#2	25.00	.00040	-.01950	-.00040	-.00100
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00118**	**.00011**	**.9983**	**.00120**
Stddev	.00731	.00027	.00006	.0000	.00018
%RSD	29627.	22.965	50.812	.0021	15.066
#1	-.00515	-.00137	.00007	.9983	.00107
#2	.00519	-.00099	.00016	.9983	.00133
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629434/1-A Acquired: 6/9/2022 22:57:09 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00062**	**-.00030**	**-.00134**	**.9993**
Stddev	.00070	.00018	.00010	.0002
%RSD	112.95	60.690	7.4245	.0187
#1	.00111	-.00017	-.00127	.9995
#2	.00012	-.00043	-.00141	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3902.9**	**3460.3**	**70729.**	**5732.3**
Stddev	2.8	3.5	71.	18.7
%RSD	.07195	.10010	.10021	.32656
#1	3904.9	3462.8	70779.	5745.5
#2	3900.9	3457.9	70679.	5719.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.874%	97.982%	98.036%	93.544%
Range				

Sample Name: LCS 480-629434/2-A Acquired: 6/9/2022 23:01:03 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04839**	**10.121**	**.20324**	**.20274**	**.21484**
Stddev	.00039	.045	.00191	.00063	.00022
%RSD	.81503	.44312	.93912	.31243	.10246
#1	.04867	10.153	.20189	.20229	.21499
#2	.04811	10.090	.20459	.20319	.21468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20962**	**10.168**	**.20185**	**.0099**	**.20262**
Stddev	.00155	.054	.00020	.0084	.00038
%RSD	.74116	.53271	.09819	84.54	.18652
#1	.21072	10.207	.20199	.0040	.20289
#2	.20852	10.130	.20171	.0158	.20235
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20213**	**.20568**	**10.409**	**10.253**	**.20011**
Stddev	.00050	.00019	.032	.084	.00185
%RSD	.24743	.09152	.30760	.81707	.92508
#1	.20249	.20554	10.431	10.312	.20142
#2	.20178	.20581	10.386	10.194	.19880
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629434/2-A Acquired: 6/9/2022 23:01:03 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.385**	**.20843**	**.20682**	**10.119**	**.19807**
Stddev	.005	.00007	.00069	.069	.00040
%RSD	.04751	.03367	.33498	.68572	.20338
#1	10.388	.20848	.20731	10.168	.19835
#2	10.381	.20838	.20633	10.070	.19778
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.20053**	**9.8936**	**.20650**	**.19422**
Stddev	.00	.00055	.0131	.00077	.00000
%RSD	.0033	.27295	.13229	.37320	.00041
#1	25.00	.20091	9.8844	.20705	.19422
#2	25.00	.20014	9.9029	.20596	.19422
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8707**	F **.24967**	**.20702**	**1.001**	**.20511**
Stddev	.0045	.00039	.00110	.004	.00012
%RSD	.04569	.15580	.53049	.3551	.05843
#1	9.8739	.24995	.20780	.9981	.20520
#2	9.8675	.24940	.20624	1.003	.20503
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: LCS 480-629434/2-A Acquired: 6/9/2022 23:01:03 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20807**	**.20134**	**.20527**	**.9996**
Stddev	.00163	.00035	.00054	.0001
%RSD	.78540	.17322	.26424	.0126
#1	.20923	.20159	.20489	.9997
#2	.20692	.20110	.20565	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3672.2**	**3408.4**	**69047.**	**5695.4**
Stddev	5.8	1.2	59.	36.1
%RSD	.15765	.03507	.08497	.63461
#1	3668.1	3407.5	69089.	5669.8
#2	3676.2	3409.2	69006.	5720.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.087%	96.510%	95.705%	92.942%
Range				

Sample Name: CCV-7024752 Acquired: 6/9/2022 23:04:44 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0140**	**51.403**	**1.0317**	**1.0518**	**1.0432**
Stddev	.0038	.127	.0006	.0013	.0018
%RSD	.37736	.24781	.06145	.12701	.16733
#1	1.0167	51.493	1.0313	1.0509	1.0444
#2	1.0113	51.313	1.0322	1.0528	1.0419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0338**	**51.780**	**1.0379**	**1.010**	**1.0330**
Stddev	.0018	.168	.0010	.004	.0014
%RSD	.17692	.32458	.10019	.4113	.13096
#1	1.0351	51.899	1.0372	1.013	1.0339
#2	1.0325	51.662	1.0387	1.007	1.0320
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0365**	**1.0266**	**52.687**	**52.785**	**1.0351**
Stddev	.0002	.0018	.097	.079	.0040
%RSD	.02358	.17392	.18376	.14897	.38628
#1	1.0363	1.0279	52.755	52.841	1.0379
#2	1.0367	1.0253	52.618	52.729	1.0322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 23:04:44 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.532**	**1.0410**	**1.0345**	**52.399**	**1.0329**
Stddev	.035	.0019	.0022	.075	.0003
%RSD	.06743	.18441	.20818	.14289	.02713
#1	51.557	1.0424	1.0360	52.452	1.0331
#2	51.507	1.0397	1.0329	52.346	1.0327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.12**	**1.0376**	**25.959**	**1.0204**	**1.0309**
Stddev	.00	.0046	.017	.0014	.0055
%RSD	.0060	.44525	.06647	.13227	.52887
#1	38.13	1.0409	25.946	1.0213	1.0347
#2	38.12	1.0344	25.971	1.0194	1.0270
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.322**	**1.0383**	**1.0359**	**1.527**	**1.0305**
Stddev	.026	.0015	.0014	.002	.0020
%RSD	.24908	.14072	.13466	.1144	.19177
#1	10.304	1.0394	1.0369	1.528	1.0319
#2	10.340	1.0373	1.0349	1.526	1.0291
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 23:04:44 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0480**	**1.0346**	**1.0785**	**1.520**
Stddev	.0016	.0011	.0055	.003
%RSD	.15035	.10529	.51342	.1754
#1	1.0469	1.0354	1.0824	1.522
#2	1.0491	1.0338	1.0745	1.518
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3366.9**	**3311.6**	**66328.**	**5534.5**
Stddev	1.0	3.6	130.	20.0
%RSD	.02881	.10767	.19620	.36128
#1	3367.5	3314.1	66236.	5520.4
#2	3366.2	3309.1	66420.	5548.7

Sample Name: CCB-7026764 Acquired: 6/9/2022 23:08:25 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**-.02281**	**.00030**	**.00050**	**.00003**
Stddev	.00003	.00586	.00110	.00056	.00001
%RSD	4.2302	25.680	367.02	112.70	22.592
#1	-.00068	-.02695	-.00048	.00010	.00004
#2	-.00065	-.01867	.00108	.00089	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00168**	**-.00002**	**-.0061**	**-.00014**
Stddev	.00005	.00186	.00011	.0045	.00012
%RSD	80.808	111.04	625.38	73.62	82.007
#1	.00003	.00299	.00006	-.0029	-.00006
#2	.00010	.00036	-.00010	-.0092	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.00016**	**.01012**	**.02062**	**.00029**
Stddev	.00020	.00011	.00025	.04528	.00065
%RSD	105.44	65.706	2.4853	219.56	227.99
#1	-.00033	.00024	.00994	-.01140	.00075
#2	-.00005	.00009	.01030	.05264	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 23:08:25 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00104**	**.00005**	**.00251**	**.09195**	**.00002**
Stddev	.00349	.00002	.00042	.00542	.00019
%RSD	336.22	43.033	16.647	5.8922	1043.6
#1	-.00143	.00004	.00221	.08812	.00015
#2	.00351	.00007	.00281	.09578	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00007**	**-.01487**	**-.00047**	**.00585**
Stddev	.00	.00000	.00133	.00172	.00189
%RSD	.0019	6.3559	8.9559	367.46	32.391
#1	25.00	-.00006	-.01393	-.00168	.00451
#2	25.00	-.00007	-.01581	.00075	.00719
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02033**	**.00047**	**.00009**	**.9962**	**.00062**
Stddev	.01013	.00042	.00005	.0020	.00011
%RSD	49.815	89.560	54.667	.2034	18.333
#1	-.01317	.00077	.00013	.9976	.00054
#2	-.02750	.00017	.00006	.9947	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 23:08:25 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00102**	**-.00034**	**.00001**	**.9991**
Stddev	.00099	.00017	.00071	.0000
%RSD	97.809	50.369	8988.3	.0028
#1	.00172	-.00022	.00051	.9991
#2	.00031	-.00046	-.00049	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3995.6**	**3539.7**	**72292.**	**5753.6**
Stddev	3.7	.8	78.	19.4
%RSD	.09162	.02307	.10835	.33663
#1	3993.0	3539.1	72236.	5767.3
#2	3998.2	3540.3	72347.	5739.9

Sample Name: CCVL-7019501 Acquired: 6/9/2022 23:12:19 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00517**	**.17624**	**.01316**	**.01871**	**.00212**
Stddev	.00013	.00371	.00266	.00010	.00001
%RSD	2.4635	2.1077	20.198	.52791	.53439
#1	.00527	.17361	.01128	.01878	.00212
#2	.00508	.17886	.01503	.01864	.00211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**.50062**	**.00199**	**-.0217**	**.00394**
Stddev	.00003	.00314	.00004	.0141	.00004
%RSD	1.5097	.62635	2.2393	65.19	1.1283
#1	.00206	.50283	.00195	-.0317	.00391
#2	.00211	.49840	.00202	-.0117	.00397
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00352**	**.01090**	**.05072**	**.51410**	**.02735**
Stddev	.00010	.00033	.00043	.01271	.00091
%RSD	2.9687	3.0070	.85038	2.4727	3.3205
#1	.00359	.01067	.05102	.50511	.02671
#2	.00345	.01113	.05041	.52309	.02799
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7019501 Acquired: 6/9/2022 23:12:19 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19864**	**.00295**	**.00965**	**1.0596**	**.00949**
Stddev	.00082	.00008	.00048	.0092	.00031
%RSD	.41410	2.7441	4.9721	.86903	3.2481
#1	.19922	.00301	.00931	1.0661	.00927
#2	.19806	.00289	.00999	1.0531	.00971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00931**	**.16936**	**.01754**	**.02056**
Stddev	.00	.00018	.00130	.00211	.00060
%RSD	.0001	1.8974	.77026	12.043	2.8968
#1	25.00	.00918	.16844	.01903	.02014
#2	25.00	.00943	.17028	.01605	.02098
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45363**	**.00870**	**.00512**	F **1.001**	**.00450**
Stddev	.01327	.00011	.00010	.001	.00012
%RSD	2.9251	1.2688	1.8849	.0620	2.6793
#1	.46301	.00862	.00519	1.001	.00458
#2	.44424	.00878	.00506	1.002	.00441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7019501 Acquired: 6/9/2022 23:12:19 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02073**	**.00448**	**.00733**	F **.9996**
Stddev	.00084	.00008	.00045	.0001
%RSD	4.0351	1.7277	6.1919	.0108
#1	.02132	.00454	.00766	.9996
#2	.02014	.00443	.00701	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3945.1**	**3517.5**	**71487.**	**5739.8**
Stddev	2.8	1.0	170.	2.5
%RSD	.07117	.02904	.23722	.04284
#1	3943.1	3516.7	71367.	5741.5
#2	3947.1	3518.2	71607.	5738.1

Sample Name: 480-198540-G-1-B Acquired: 6/9/2022 23:16:11 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**-.01998**	**.00281**	**.39814**	**.32031**
Stddev	.00053	.01599	.00059	.00003	.00039
%RSD	402.20	80.041	21.142	.00697	.12038
#1	-.00051	-.03129	.00323	.39816	.32004
#2	.00024	-.00867	.00239	.39812	.32059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**96.043**	**.00017**	**.0053**	**.00213**
Stddev	.00005	.309	.00013	.0106	.00009
%RSD	87.257	.32183	76.036	201.6	4.4138
#1	.00010	96.261	.00026	.0128	.00206
#2	.00002	95.824	.00008	-.0022	.00220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.00617**	**.01668**	**30.084**	**.02239**
Stddev	.00010	.00064	.00208	.125	.00127
%RSD	29.391	10.416	12.491	.41398	5.6688
#1	.00043	.00662	.01816	30.172	.02150
#2	.00028	.00571	.01521	29.996	.02329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198540-G-1-B Acquired: 6/9/2022 23:16:11 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.868**	**.06691**	**-.00080**	**129.27**	**.01800**
Stddev	.128	.00037	.00012	.67	.00002
%RSD	.25747	.55176	14.885	.51677	.09019
#1	49.959	.06718	-.00071	129.75	.01799
#2	49.777	.06665	-.00088	128.80	.01801
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00026**	**33.575**	**-.00328**	**-.01036**
Stddev	.00	.00039	.039	.00282	.00079
%RSD	.0012	151.15	.11740	86.145	7.6459
#1	25.01	.00054	33.603	-.00128	-.00980
#2	25.01	-.00002	33.547	-.00528	-.01092
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5503**	**-.00082**	**1.0497**	**.9976**	**.00023**
Stddev	.0137	.00024	.0030	.0074	.00034
%RSD	.30086	28.607	.28857	.7374	148.97
#1	4.5407	-.00066	1.0518	1.003	-.00001
#2	4.5600	-.00099	1.0475	.9924	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198540-G-1-B Acquired: 6/9/2022 23:16:11 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00227**	**-.00047**	**.00458**	**.9996**
Stddev	.00064	.00011	.00062	.0001
%RSD	27.979	23.279	13.481	.0088
#1	.00182	-.00054	.00414	.9996
#2	.00272	-.00039	.00502	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3344.3**	**3244.9**	**66223.**	**5593.4**
Stddev	4.2	2.6	45.	21.4
%RSD	.12498	.08111	.06821	.38216
#1	3347.2	3243.0	66191.	5578.3
#2	3341.3	3246.8	66255.	5608.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.865%	91.882%	91.791%	91.279%
Range				

Sample Name: 480-198540-G-1-Bsd@5 Acquired: 6/9/2022 23:20:05 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**-.01605**	**.00093**	**.08038**	**.06713**
Stddev	.00068	.03284	.00140	.00029	.00002
%RSD	89.925	204.60	150.81	.36125	.03057
#1	-.00028	-.03927	.00192	.08017	.06712
#2	-.00124	.00717	-.00006	.08058	.06715
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**20.090**	**.00015**	**-.0213**	**.00038**
Stddev	.00003	.014	.00003	.0281	.00003
%RSD	132.62	.06725	17.441	131.6	8.6861
#1	-.00000	20.100	.00014	-.0412	.00041
#2	-.00004	20.081	.00017	-.0015	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00131**	**.00196**	**6.1050**	**.00379**
Stddev	.00041	.00055	.00246	.0291	.00090
%RSD	530.61	42.131	125.57	.47734	23.794
#1	.00021	.00170	.00369	6.0844	.00443
#2	-.00037	.00092	.00022	6.1256	.00315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198540-G-1-Bsd@5 Acquired: 6/9/2022 23:20:05 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.404**	**.01404**	**-.00152**	**26.209**	**.00378**
Stddev	.002	.00006	.00017	.031	.00005
%RSD	.01736	.39529	11.265	.11922	1.2418
#1	10.405	.01408	-.00164	26.231	.00381
#2	10.402	.01400	-.00140	26.186	.00375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00037**	**6.6932**	**-.00237**	**-.00339**
Stddev	.00	.00025	.0053	.00026	.00053
%RSD	.0075	66.869	.07909	11.110	15.677
#1	25.00	-.00055	6.6895	-.00256	-.00376
#2	25.00	-.00020	6.6970	-.00219	-.00301
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.90528**	**-.00091**	**.21704**	**.9999**	**-.00016**
Stddev	.00108	.00059	.00028	.0042	.00020
%RSD	.11948	65.121	.12766	.4230	123.42
#1	.90452	-.00133	.21723	.9969	-.00030
#2	.90605	-.00049	.21684	1.003	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198540-G-1-Bsd@5 Acquired: 6/9/2022 23:20:05 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00037**	**-.00046**	**-.00117**	**.9994**
Stddev	.00002	.00006	.00029	.0009
%RSD	6.5088	12.926	25.186	.0919
#1	.00035	-.00050	-.00096	.9987
#2	.00039	-.00041	-.00138	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3627.4**	**3352.8**	**68078.**	**5583.4**
Stddev	4.2	1.8	45.	4.3
%RSD	.11586	.05387	.06571	.07669
#1	3630.3	3354.1	68110.	5580.3
#2	3624.4	3351.6	68046.	5586.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.964%	94.938%	94.362%	91.114%
Range				

Sample Name: 480-198540-G-1-BPDS Acquired: 6/9/2022 23:23:57 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05005**	**10.301**	**.21469**	**.58959**	**.51802**
Stddev	.00082	.066	.00121	.00050	.00088
%RSD	1.6303	.63854	.56184	.08435	.16955
#1	.04947	10.347	.21554	.58924	.51740
#2	.05063	10.254	.21384	.58994	.51864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21725**	**101.37**	**.21077**	**-.0374**	**.21515**
Stddev	.00025	.03	.00031	.0028	.00004
%RSD	.11547	.03316	.14706	7.420	.01633
#1	.21708	101.35	.21055	-.0354	.21518
#2	.21743	101.40	.21099	-.0393	.21513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20893**	**.21770**	**10.474**	**39.536**	**.23146**
Stddev	.00074	.00047	.016	.018	.00107
%RSD	.35592	.21775	.14948	.04565	.46215
#1	.20841	.21737	10.463	39.549	.23071
#2	.20946	.21804	10.485	39.524	.23222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198540-G-1-BPDS Acquired: 6/9/2022 23:23:57 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**58.237**	**.27747**	**.21282**	**133.62**	**.22465**
Stddev	.115	.00062	.00037	.66	.00050
%RSD	.19791	.22191	.17429	.49672	.22267
#1	58.155	.27703	.21308	133.15	.22501
#2	58.318	.27791	.21256	134.09	.22430
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.21277**	**42.476**	**.22010**	**.20340**
Stddev	.00	.00034	.025	.00505	.00358
%RSD	.0019	.15915	.05881	2.2937	1.7612
#1	25.01	.21301	42.494	.21653	.20594
#2	25.01	.21253	42.458	.22367	.20087
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.149**	**.21400**	**1.2154**	**1.002**	**.21016**
Stddev	.054	.00016	.0005	.001	.00039
%RSD	.35577	.07627	.03754	.0845	.18738
#1	15.187	.21389	1.2151	1.002	.21044
#2	15.111	.21412	1.2157	1.003	.20989
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198540-G-1-BPDS Acquired: 6/9/2022 23:23:57 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21493**	**.20843**	**.21492**	**.9995**
Stddev	.00259	.00094	.00024	.0001
%RSD	1.2030	.45309	.10938	.0108
#1	.21676	.20777	.21475	.9995
#2	.21310	.20910	.21508	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3337.9**	**3290.9**	**66593.**	**5671.7**
Stddev	1.3	.5	182.	13.0
%RSD	.04015	.01508	.27376	.22947
#1	3338.9	3291.3	66722.	5680.9
#2	3337.0	3290.5	66464.	5662.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.706%	93.184%	92.304%	92.555%
Range				

Sample Name: 480-198540-G-1-C MS Acquired: 6/9/2022 23:27:43 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04594**	**9.4848**	**.20067**	**.56989**	**.49860**
Stddev	.00017	.0143	.00139	.00083	.00007
%RSD	.35969	.15065	.69193	.14492	.01333
#1	.04606	9.4747	.19969	.56930	.49855
#2	.04583	9.4949	.20166	.57047	.49864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20007**	**99.315**	**.19483**	**-.0059**	**.19945**
Stddev	.00051	.315	.00063	.0073	.00016
%RSD	.25645	.31677	.32431	122.7	.07905
#1	.20044	99.537	.19527	-.0008	.19934
#2	.19971	99.093	.19438	-.0111	.19956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18944**	**.19968**	**9.7470**	**38.466**	**.21441**
Stddev	.00010	.00048	.0244	.052	.00060
%RSD	.05479	.24283	.25046	.13540	.28138
#1	.18952	.19934	9.7643	38.503	.21398
#2	.18937	.20003	9.7297	38.429	.21483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198540-G-1-C MS Acquired: 6/9/2022 23:27:43 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**56.728**	**.25492**	**.19770**	**131.28**	**.20829**
Stddev	.146	.00031	.00134	.56	.00016
%RSD	.25658	.12119	.67978	.42961	.07648
#1	56.831	.25514	.19865	131.68	.20840
#2	56.625	.25470	.19675	130.88	.20818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.19846**	**41.342**	**.19792**	**.18672**
Stddev	.00	.00244	.001	.00041	.00015
%RSD	.0057	1.2284	.00210	.20722	.07939
#1	25.01	.19674	41.342	.19821	.18683
#2	25.01	.20019	41.343	.19763	.18662
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.439**	**.24531**	**1.1903**	**1.006**	**.19540**
Stddev	.001	.00029	.0033	.001	.00006
%RSD	.00536	.11626	.27591	.0871	.02922
#1	13.439	.24551	1.1926	1.006	.19544
#2	13.440	.24511	1.1879	1.007	.19536
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198540-G-1-C MS Acquired: 6/9/2022 23:27:43 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19721**	**.19157**	**.19891**	**.9991**
Stddev	.00243	.00010	.00158	.0002
%RSD	1.2338	.05197	.79631	.0223
#1	.19549	.19164	.20003	.9993
#2	.19893	.19150	.19779	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3383.9**	**3334.2**	**67547.**	**5731.0**
Stddev	.3	3.5	161.	18.5
%RSD	.00822	.10532	.23781	.32245
#1	3383.7	3331.7	67434.	5718.0
#2	3384.1	3336.7	67661.	5744.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.858%	94.410%	93.627%	93.524%
Range				

Sample Name: 480-198540-G-1-D MSD Acquired: 6/9/2022 23:31:30 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04839**	**9.9113**	**.20731**	**.59689**	**.52069**
Stddev	.00045	.0106	.00105	.00064	.00273
%RSD	.93582	.10672	.50599	.10778	.52448
#1	.04871	9.9039	.20657	.59643	.51876
#2	.04807	9.9188	.20805	.59734	.52262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20789**	**103.69**	**.20262**	**-.0220**	**.20744**
Stddev	.00040	.16	.00001	.0072	.00005
%RSD	.19473	.15494	.00708	32.50	.02265
#1	.20817	103.81	.20261	-.0271	.20741
#2	.20760	103.58	.20263	-.0170	.20747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19750**	**.20847**	**10.124**	**40.038**	**.22475**
Stddev	.00037	.00037	.009	.014	.00109
%RSD	.18587	.17933	.08710	.03477	.48517
#1	.19724	.20820	10.130	40.048	.22398
#2	.19776	.20873	10.118	40.028	.22552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198540-G-1-D MSD Acquired: 6/9/2022 23:31:30 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**59.361**	**.26651**	**.20581**	**137.07**	**.21646**
Stddev	.068	.00069	.00016	.36	.00000
%RSD	.11493	.25857	.07872	.25951	.00138
#1	59.312	.26603	.20593	137.32	.21646
#2	59.409	.26700	.20570	136.82	.21646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.20423**	**43.054**	**.20762**	**.19542**
Stddev	.00	.00050	.034	.00072	.00127
%RSD	.0037	.24469	.07912	.34791	.64896
#1	25.01	.20459	43.078	.20813	.19632
#2	25.01	.20388	43.030	.20711	.19453
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.128**	**.25633**	**1.2412**	**1.003**	**.20231**
Stddev	.014	.00273	.0006	.006	.00006
%RSD	.10241	1.0662	.04441	.5860	.03171
#1	14.138	.25826	1.2416	1.007	.20235
#2	14.117	.25440	1.2408	.9984	.20226
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198540-G-1-D MSD Acquired: 6/9/2022 23:31:30 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20417**	**.19998**	**.20677**	**.9997**
Stddev	.00035	.00005	.00179	.0000
%RSD	.17218	.02719	.86494	.0042
#1	.20392	.19994	.20550	.9997
#2	.20441	.20002	.20803	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3289.3**	**3241.2**	**65474.**	**5593.2**
Stddev	.3	1.4	121.	6.7
%RSD	.00862	.04303	.18453	.12022
#1	3289.1	3240.2	65560.	5588.5
#2	3289.5	3242.2	65389.	5598.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.486%	91.777%	90.754%	91.276%
Range				

Sample Name: MB 480-629422/1-A Acquired: 6/9/2022 23:35:16 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.00509**	**.00010**	**.00086**	**.00002**
Stddev	.00046	.01578	.00168	.00070	.00000
%RSD	82.258	310.16	1597.7	81.151	4.7422
#1	-.00089	-.00607	-.00108	.00037	.00002
#2	-.00024	.01625	.00129	.00136	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00571**	**.00003**	**.0298**	**-.00002**
Stddev	.00003	.00130	.00001	.0098	.00003
%RSD	86.701	22.702	29.185	32.85	147.77
#1	.00006	.00662	.00003	.0367	-.00004
#2	.00001	.00479	.00004	.0229	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00014**	**.00081**	**.04534**	**-.00038**
Stddev	.00015	.00029	.00127	.01217	.00067
%RSD	170.24	210.21	157.54	26.843	174.08
#1	.00002	-.00034	-.00009	.03673	.00009
#2	-.00019	.00007	.00171	.05395	-.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629422/1-A Acquired: 6/9/2022 23:35:16 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00119**	**.00003**	**-.00063**	**.10552**	**.00011**
Stddev	.00089	.00000	.00020	.00184	.00000
%RSD	74.905	9.8655	32.473	1.7422	3.8283
#1	.00056	.00003	-.00078	.10422	.00012
#2	.00181	.00003	-.00049	.10682	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00015**	**-.01220**	**.00065**	**-.00177**
Stddev	.00	.00029	.00021	.00016	.00216
%RSD	.0025	196.82	1.7611	24.416	122.42
#1	25.00	-.00006	-.01235	.00054	-.00330
#2	25.00	.00035	-.01205	.00076	-.00024
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01075**	**-.00077**	**.00002**	**.9983**	**-.00060**
Stddev	.00078	.00067	.00009	.0007	.00011
%RSD	7.2540	86.007	419.46	.0655	19.084
#1	-.01130	-.00125	-.00004	.9988	-.00068
#2	-.01020	-.00030	.00009	.9979	-.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629422/1-A Acquired: 6/9/2022 23:35:16 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00135**	**-.00021**	**-.00126**	**.9994**
Stddev	.00052	.00013	.00034	.0004
%RSD	38.384	65.801	26.904	.0387
#1	.00172	-.00011	-.00150	.9997
#2	.00098	-.00030	-.00102	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3948.5**	**3525.7**	**71867.**	**5790.7**
Stddev	2.5	1.1	78.	8.5
%RSD	.06323	.03231	.10881	.14731
#1	3946.7	3526.6	71923.	5784.7
#2	3950.2	3524.9	71812.	5796.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.016%	99.834%	99.615%	94.498%
Range				

Sample Name: LCS 480-629422/2-A Acquired: 6/9/2022 23:39:09 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04693**	**9.8557**	**.19692**	**.19958**	**.21110**
Stddev	.00018	.0150	.00012	.00018	.00028
%RSD	.38313	.15259	.06262	.09094	.13239
#1	.04681	9.8663	.19701	.19971	.21129
#2	.04706	9.8450	.19684	.19945	.21090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20690**	**9.9429**	**.19866**	**.0076**	**.19974**
Stddev	.00164	.0403	.00050	.0298	.00013
%RSD	.79395	.40501	.25357	392.7	.06532
#1	.20807	9.9714	.19830	.0287	.19965
#2	.20574	9.9144	.19901	-.0135	.19983
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19727**	**.20072**	**10.251**	**10.099**	**.19545**
Stddev	.00097	.00031	.074	.050	.00071
%RSD	.48973	.15590	.72535	.49609	.36529
#1	.19795	.20094	10.304	10.135	.19596
#2	.19659	.20050	10.199	10.064	.19495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629422/2-A Acquired: 6/9/2022 23:39:09 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.095**	**.20288**	**.20318**	**9.9571**	**.19365**
Stddev	.002	.00002	.00011	.0442	.00003
%RSD	.02287	.00980	.05406	.44437	.01460
#1	10.093	.20286	.20311	9.9884	.19363
#2	10.096	.20289	.20326	9.9259	.19367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.19887**	**9.5924**	**.20148**	**.19015**
Stddev	.00	.00112	.0125	.00122	.00315
%RSD	.0036	.56353	.13042	.60352	1.6575
#1	25.00	.19808	9.5835	.20234	.19238
#2	25.00	.19966	9.6012	.20062	.18792
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5541**	F **.24169**	**.20322**	**1.005**	**.19923**
Stddev	.0673	.00019	.00114	.002	.00049
%RSD	.70468	.07973	.56286	.1732	.24490
#1	9.6017	.24182	.20403	1.006	.19957
#2	9.5065	.24155	.20241	1.004	.19888
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: LCS 480-629422/2-A Acquired: 6/9/2022 23:39:09 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20308**	**.19699**	**.20154**	**.9988**
Stddev	.00064	.00022	.00090	.0003
%RSD	.31570	.11106	.44431	.0275
#1	.20353	.19714	.20217	.9986
#2	.20262	.19683	.20090	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3738.4**	**3477.9**	**70502.**	**5779.7**
Stddev	.2	.6	167.	16.9
%RSD	.00530	.01727	.23714	.29218
#1	3738.2	3478.3	70620.	5767.8
#2	3738.5	3477.4	70383.	5791.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.748%	98.478%	97.722%	94.319%
Range				

Sample Name: 480-198760-B-1-A Acquired: 6/9/2022 23:42:49 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**-.01182**	**-.00209**	**.01549**	**.06748**
Stddev	.00075	.01974	.00068	.00027	.00001
%RSD	294.06	167.07	32.369	1.7135	.01825
#1	.00027	-.02578	-.00257	.01530	.06749
#2	-.00078	.00214	-.00161	.01567	.06747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**68.137**	**.00006**	**-.0099**	**-.00003**
Stddev	.00002	.183	.00001	.0202	.00000
%RSD	68.806	.26897	13.945	203.9	5.5553
#1	.00001	68.267	.00006	.0044	-.00003
#2	.00004	68.008	.00007	-.0242	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**-.00058**	**.00289**	**1.7595**	**.00211**
Stddev	.00004	.00026	.00140	.0252	.00124
%RSD	14.319	44.632	48.432	1.4339	58.455
#1	-.00026	-.00039	.00190	1.7417	.00299
#2	-.00032	-.00076	.00389	1.7773	.00124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-1-A Acquired: 6/9/2022 23:42:49 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.756**	**.00005**	**.00078**	**30.445**	**.00041**
Stddev	.001	.00003	.00032	.108	.00042
%RSD	.00774	64.456	41.400	.35603	103.41
#1	10.756	.00003	.00055	30.521	.00011
#2	10.757	.00007	.00101	30.368	.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00160**	**2.9448**	**-.00415**	**-.01062**
Stddev	.00	.00170	.0002	.00131	.00171
%RSD	.0053	106.22	.00700	31.508	16.109
#1	25.00	.00040	2.9446	-.00322	-.00941
#2	25.00	.00280	2.9449	-.00507	-.01183
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.2222**	**.00027**	**.11180**	**.9996**	**.00024**
Stddev	.0110	.00033	.00059	.0022	.00012
%RSD	.49544	121.42	.53015	.2160	50.918
#1	2.2300	.00050	.11222	1.001	.00016
#2	2.2144	.00004	.11138	.9981	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-1-A Acquired: 6/9/2022 23:42:49 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00279**	**-.00014**	**-.00151**	**.9993**
Stddev	.00068	.00020	.00059	.0005
%RSD	24.304	139.25	38.973	.0523
#1	.00327	-.00000	-.00193	.9997
#2	.00231	-.00028	-.00110	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3542.5**	**3331.8**	**67885.**	**5650.6**
Stddev	2.8	3.3	201.	11.3
%RSD	.07849	.09785	.29559	.19979
#1	3540.6	3329.5	68027.	5642.6
#2	3544.5	3334.1	67743.	5658.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.837%	94.343%	94.094%	92.212%
Range				

Sample Name: 480-198760-B-2-A Acquired: 6/9/2022 23:46:41 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**-.01857**	**-.00199**	**.01924**	**.08786**
Stddev	.00020	.03497	.00099	.00037	.00018
%RSD	33.654	188.29	49.719	1.9149	.20061
#1	-.00045	-.04330	-.00269	.01950	.08774
#2	-.00073	.00616	-.00129	.01898	.08798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**94.433**	**.00006**	**-.0042**	**.00002**
Stddev	.00002	.200	.00007	.0089	.00012
%RSD	29.741	.21138	111.73	211.0	737.42
#1	.00005	94.292	.00011	.0021	.00010
#2	.00008	94.574	.00001	-.0105	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00017**	**.00134**	**2.4314**	**.00213**
Stddev	.00048	.00006	.00102	.0173	.00096
%RSD	4568.4	31.995	76.327	.71283	45.122
#1	-.00035	-.00013	.00062	2.4191	.00145
#2	.00033	-.00021	.00206	2.4436	.00281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-2-A Acquired: 6/9/2022 23:46:41 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.882**	**-.00001**	**-.00122**	**36.819**	**.00010**
Stddev	.040	.00004	.00003	.073	.00014
%RSD	.31320	328.28	2.7457	.19741	131.91
#1	12.853	.00002	-.00120	36.768	.00020
#2	12.910	-.00004	-.00125	36.871	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00125**	**3.3256**	**-.00256**	**-.00920**
Stddev	.00	.00016	.0061	.00125	.00096
%RSD	.0036	12.544	.18210	48.840	10.433
#1	25.01	.00136	3.3213	-.00167	-.00988
#2	25.01	.00114	3.3299	-.00344	-.00852
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.3574**	**-.00071**	**.12978**	**1.000**	**.00005**
Stddev	.0081	.00021	.00044	.002	.00002
%RSD	.34499	29.729	.33674	.1914	36.768
#1	2.3631	-.00056	.12947	1.002	.00006
#2	2.3516	-.00086	.13009	.9990	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-2-A Acquired: 6/9/2022 23:46:41 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00373**	**-.00041**	**-.00097**	**.9998**
Stddev	.00031	.00015	.00039	.0005
%RSD	8.3252	35.577	40.153	.0510
#1	.00351	-.00031	-.00069	1.000
#2	.00395	-.00051	-.00124	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3560.7**	**3365.8**	**68576.**	**5681.8**
Stddev	.1	1.6	60.	26.9
%RSD	.00226	.04825	.08736	.47291
#1	3560.8	3367.0	68618.	5700.8
#2	3560.7	3364.7	68533.	5662.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.293%	95.306%	95.052%	92.720%
Range				

Sample Name: CCV-7024752 Acquired: 6/9/2022 23:50:32 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0192**	**51.435**	**1.0420**	**1.0732**	**1.0509**
Stddev	.0006	.046	.0022	.0015	.0004
%RSD	.06205	.08888	.20966	.14105	.03862
#1	1.0197	51.467	1.0405	1.0721	1.0506
#2	1.0188	51.402	1.0436	1.0742	1.0511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0372**	**51.753**	**1.0571**	**1.012**	**1.0529**
Stddev	.0011	.016	.0011	.001	.0002
%RSD	.10238	.03051	.10239	.1427	.01987
#1	1.0365	51.742	1.0563	1.013	1.0530
#2	1.0380	51.764	1.0579	1.011	1.0527
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0362**	**1.0373**	**53.262**	**52.990**	**1.0288**
Stddev	.0017	.0008	.359	.049	.0005
%RSD	.16044	.08241	.67327	.09330	.04533
#1	1.0373	1.0379	53.515	52.955	1.0284
#2	1.0350	1.0367	53.008	53.025	1.0291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 23:50:32 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.028**	**1.0587**	**1.0457**	**52.399**	**1.0499**
Stddev	.117	.0020	.0045	.047	.0003
%RSD	.22467	.19064	.42734	.08917	.02958
#1	52.110	1.0601	1.0489	52.366	1.0497
#2	51.945	1.0572	1.0425	52.433	1.0501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.36**	**1.0577**	**26.276**	**1.0248**	**1.0395**
Stddev	.01	.0017	.027	.0019	.0133
%RSD	.0267	.15672	.10120	.18362	1.2830
#1	38.35	1.0589	26.294	1.0261	1.0490
#2	38.36	1.0565	26.257	1.0234	1.0301
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.304**	**1.0602**	**1.0493**	**1.529**	**1.0376**
Stddev	.006	.0027	.0021	.005	.0021
%RSD	.06215	.25764	.19756	.3301	.20056
#1	10.308	1.0621	1.0479	1.532	1.0391
#2	10.299	1.0582	1.0508	1.525	1.0362
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/9/2022 23:50:32 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0649**	**1.0486**	**1.0950**	**1.526**
Stddev	.0002	.0019	.0036	.000
%RSD	.02226	.17740	.32720	.0034
#1	1.0651	1.0500	1.0975	1.526
#2	1.0648	1.0473	1.0924	1.526
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3348.2**	**3307.5**	**66082.**	**5550.2**
Stddev	3.2	1.3	135.	1.3
%RSD	.09417	.03867	.20432	.02316
#1	3350.5	3308.4	65987.	5551.2
#2	3346.0	3306.6	66178.	5549.3

Sample Name: CCB-7026764 Acquired: 6/9/2022 23:54:12 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**-.01169**	**.00050**	**.00019**	**.00001**
Stddev	.00116	.01305	.00117	.00026	.00001
%RSD	258.84	111.58	235.77	135.86	50.582
#1	.00037	-.02092	.00132	.00037	.00001
#2	-.00126	-.00247	-.00033	.00001	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00474**	**.00015**	**-.0072**	**-.00013**
Stddev	.00000	.00224	.00004	.0283	.00007
%RSD	3.3033	47.206	23.632	395.3	54.745
#1	.00006	.00632	.00012	.0128	-.00018
#2	.00006	.00316	.00017	-.0271	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00046**	**.01012**	**.05357**	**-.00044**
Stddev	.00004	.00022	.00157	.00385	.00054
%RSD	49.055	49.146	15.549	7.1963	123.80
#1	.00006	.00030	.00900	.05084	-.00082
#2	.00011	.00062	.01123	.05629	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 23:54:12 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.00010**	**.00223**	**.05998**	**.00005**
Stddev	.00176	.00004	.00034	.00651	.00009
%RSD	489.52	40.883	15.069	10.850	194.44
#1	.00160	.00013	.00199	.05538	.00011
#2	-.00088	.00007	.00247	.06458	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00008**	**-.01241**	**-.00166**	**.00077**
Stddev	.00	.00011	.00208	.00158	.00023
%RSD	.0013	135.32	16.737	95.355	29.754
#1	25.00	-.00016	-.01094	-.00278	.00061
#2	25.00	-.00000	-.01388	-.00054	.00094
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01006**	**.00000**	**.00008**	**.9982**	**.00040**
Stddev	.00744	.00023	.00008	.0003	.00010
%RSD	74.020	24486.	93.001	.0288	25.826
#1	-.01532	-.00016	.00014	.9984	.00047
#2	-.00479	.00017	.00003	.9980	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/9/2022 23:54:12 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00061**	**-.00024**	**.00073**	**.9999**
Stddev	.00073	.00010	.00069	.0003
%RSD	119.20	43.214	95.036	.0306
#1	.00113	-.00031	.00024	1.000
#2	.00010	-.00017	.00122	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3976.7**	**3532.1**	**72014.**	**5795.6**
Stddev	4.8	9.3	139.	17.8
%RSD	.12122	.26397	.19339	.30652
#1	3973.3	3525.5	72113.	5808.1
#2	3980.1	3538.7	71916.	5783.0

Sample Name: CCVL-7019501 Acquired: 6/9/2022 23:58:06 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00517**	**.18886**	**.01218**	**.01903**	**.00210**
Stddev	.00017	.00445	.00124	.00057	.00000
%RSD	3.2961	2.3561	10.156	3.0117	.11604
#1	.00529	.19201	.01306	.01943	.00210
#2	.00505	.18571	.01131	.01862	.00210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.49474**	**.00184**	**-.0427**	**.00388**
Stddev	.00004	.00094	.00001	.0121	.00023
%RSD	2.0347	.19096	.69442	28.28	6.0085
#1	.00208	.49407	.00183	-.0342	.00371
#2	.00202	.49541	.00185	-.0513	.00404
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00335**	**.00959**	**.05132**	**.51197**	**.02805**
Stddev	.00004	.00094	.00006	.00625	.00121
%RSD	1.2224	9.8223	.12314	1.2211	4.3198
#1	.00338	.00892	.05128	.50755	.02891
#2	.00332	.01026	.05137	.51639	.02720
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7019501 Acquired: 6/9/2022 23:58:06 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19036**	**.00292**	**.00942**	**1.0259**	**.00943**
Stddev	.00063	.00006	.00015	.0051	.00014
%RSD	.32861	2.0449	1.5661	.50107	1.5046
#1	.19080	.00287	.00931	1.0222	.00953
#2	.18992	.00296	.00952	1.0295	.00933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00912**	**.16401**	**.01788**	**.02435**
Stddev	.00	.00174	.00231	.00010	.00099
%RSD	.0003	19.093	1.4074	.57162	4.0794
#1	25.00	.00789	.16564	.01781	.02365
#2	25.00	.01035	.16238	.01796	.02505
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44569**	**.00891**	**.00503**	F **.9963**	**.00442**
Stddev	.00262	.00004	.00010	.0034	.00021
%RSD	.58860	.47153	2.0585	.3449	4.8658
#1	.44755	.00888	.00510	.9987	.00426
#2	.44384	.00894	.00495	.9939	.00457
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7019501 Acquired: 6/9/2022 23:58:06 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	.02112	.00468	.00702	F .9991
Stddev	.00045	.00016	.00019	.0003
%RSD	2.1217	3.4753	2.6911	.0265
#1	.02080	.00479	.00689	.9989
#2	.02143	.00456	.00716	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3975.1	3559.0	72426.	5760.3
Stddev	1.0	6.1	282.	5.4
%RSD	.02511	.17122	.38972	.09313
#1	3974.4	3554.7	72227.	5764.1
#2	3975.8	3563.3	72626.	5756.5

Sample Name: 480-198760-B-2-Asd@5 Acquired: 6/10/2022 0:01:58 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**-.00653**	**-.00110**	**.00327**	**.01839**
Stddev	.00007	.01538	.00067	.00002	.00002
%RSD	9.7172	235.58	60.754	.72521	.09271
#1	-.00063	-.01740	-.00157	.00328	.01837
#2	-.00072	.00435	-.00063	.00325	.01840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**19.637**	**-.00003**	**-.0101**	**-.00004**
Stddev	.00006	.046	.00012	.0113	.00008
%RSD	211.27	.23599	431.15	112.4	192.14
#1	.00007	19.604	-.00012	-.0181	.00001
#2	-.00001	19.670	.00006	-.0021	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**-.00148**	**-.00220**	**.49456**	**.00116**
Stddev	.00013	.00005	.00195	.01843	.00138
%RSD	24.855	3.0909	88.483	3.7259	119.08
#1	-.00062	-.00144	-.00358	.48153	.00213
#2	-.00044	-.00151	-.00082	.50759	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-2-Asd@5 Acquired: 6/10/2022 0:01:58 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.7056**	**-.00003**	**-.00137**	**7.5097**	**-.00012**
Stddev	.0013	.00001	.00017	.0004	.00011
%RSD	.04640	39.330	12.398	.00568	90.549
#1	2.7047	-.00004	-.00149	7.5100	-.00004
#2	2.7065	-.00002	-.00125	7.5094	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00036**	**.64434**	**-.00047**	**-.00820**
Stddev	.00	.00034	.00025	.00137	.00122
%RSD	.0000	96.256	.03810	290.18	14.870
#1	25.00	-.00060	.64417	.00050	-.00734
#2	25.00	-.00011	.64451	-.00144	-.00907
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46454**	**-.00033**	**.02696**	**.9960**	**-.00035**
Stddev	.00225	.00006	.00006	.0060	.00022
%RSD	.48463	19.316	.22811	.6034	63.643
#1	.46295	-.00028	.02691	.9917	-.00019
#2	.46613	-.00037	.02700	1.000	-.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-2-Asd@5 Acquired: 6/10/2022 0:01:58 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00067**	**-.00059**	**-.00122**	**.9990**
Stddev	.00026	.00028	.00080	.0001
%RSD	38.150	46.789	65.164	.0144
#1	.00085	-.00079	-.00066	.9991
#2	.00049	-.00040	-.00179	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3771.3**	**3430.5**	**69688.**	**5678.4**
Stddev	.6	3.5	11.	10.8
%RSD	.01719	.10251	.01563	.18988
#1	3771.7	3433.0	69680.	5686.0
#2	3770.8	3428.0	69696.	5670.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.573%	97.137%	96.594%	92.665%
Range				

Sample Name: 480-198760-B-2-APDS Acquired: 6/10/2022 0:05:49 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05072**	**10.426**	**.21628**	**.23319**	**.30330**
Stddev	.00011	.017	.00060	.00041	.00036
%RSD	.21744	.16232	.27804	.17548	.11797
#1	.05064	10.438	.21671	.23348	.30304
#2	.05080	10.414	.21586	.23290	.30355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22062**	**102.80**	**.21233**	**-.0318**	**.21389**
Stddev	.00053	.08	.00005	.0032	.00011
%RSD	.24088	.07896	.02260	10.11	.05234
#1	.22025	102.75	.21236	-.0295	.21397
#2	.22100	102.86	.21229	-.0340	.21381
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21139**	**.21391**	**10.667**	**13.132**	**.21217**
Stddev	.00111	.00041	.029	.018	.00209
%RSD	.52711	.19271	.27023	.13820	.98488
#1	.21217	.21421	10.646	13.119	.21365
#2	.21060	.21362	10.687	13.145	.21069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-2-APDS Acquired: 6/10/2022 0:05:49 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.309**	**.21834**	**.21595**	**46.446**	**.20799**
Stddev	.001	.00024	.00036	.051	.00031
%RSD	.00528	.11011	.16674	.10957	.14850
#1	23.308	.21851	.21569	46.410	.20821
#2	23.310	.21817	.21620	46.482	.20778
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.21453**	**13.563**	**.21892**	**.19602**
Stddev	.00	.00042	.026	.00092	.00578
%RSD	.0004	.19626	.19308	.42098	2.9511
#1	25.00	.21482	13.582	.21827	.20011
#2	25.00	.21423	13.545	.21957	.19193
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.746**	**.21459**	**.34219**	**1.001**	**.21266**
Stddev	.047	.00077	.00018	.003	.00009
%RSD	.36498	.35747	.05191	.3132	.04454
#1	12.713	.21405	.34207	.9991	.21259
#2	12.779	.21513	.34232	1.004	.21272
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-2-APDS Acquired: 6/10/2022 0:05:49 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21917**	**.21063**	**.21232**	**1.000**
Stddev	.00149	.00005	.00150	.001
%RSD	.68188	.02210	.70562	.1140
#1	.22023	.21060	.21338	.9996
#2	.21812	.21067	.21127	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3440.8**	**3315.5**	**67250.**	**5637.4**
Stddev	.5	.4	26.	27.4
%RSD	.01334	.01174	.03846	.48587
#1	3440.5	3315.3	67268.	5656.8
#2	3441.1	3315.8	67232.	5618.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.285%	93.882%	93.215%	91.997%
Range				

Sample Name: 480-198760-B-2-B MS Acquired: 6/10/2022 0:09:36 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04747**	**9.6777**	**.20002**	**.21815**	**.29196**
Stddev	.00054	.0616	.00346	.00007	.00162
%RSD	1.1374	.63669	1.7312	.03160	.55398
#1	.04785	9.6341	.20246	.21820	.29310
#2	.04709	9.7213	.19757	.21810	.29081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20428**	**105.98**	**.19757**	**-.0072**	**.19884**
Stddev	.00010	.18	.00004	.0033	.00040
%RSD	.04859	.17335	.02117	46.44	.20347
#1	.20435	106.11	.19754	-.0048	.19913
#2	.20421	105.85	.19760	-.0096	.19856
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19288**	**.20368**	**9.9290**	**12.576**	**.19702**
Stddev	.00005	.00001	.0121	.070	.00161
%RSD	.02516	.00719	.12170	.55651	.81803
#1	.19285	.20369	9.9376	12.626	.19816
#2	.19292	.20367	9.9205	12.527	.19588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-2-B MS Acquired: 6/10/2022 0:09:36 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.102**	**.19782**	**.20161**	**47.470**	**.19365**
Stddev	.023	.00016	.00044	.067	.00011
%RSD	.10046	.07965	.21787	.14146	.05715
#1	23.086	.19793	.20192	47.518	.19373
#2	23.119	.19771	.20130	47.423	.19357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.19933**	**13.261**	**.20046**	**.19372**
Stddev	.00	.00027	.011	.00014	.00158
%RSD	.0078	.13561	.08402	.07224	.81561
#1	25.01	.19913	13.268	.20036	.19484
#2	25.00	.19952	13.253	.20056	.19260
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.920**	**.24697**	**.33059**	**1.004**	**.19890**
Stddev	.036	.00365	.00007	.004	.00063
%RSD	.30017	1.4771	.02013	.3435	.31850
#1	11.946	.24439	.33064	1.007	.19845
#2	11.895	.24955	.33054	1.002	.19935
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-2-B MS Acquired: 6/10/2022 0:09:36 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19957**	**.19625**	**.19709**	**1.000**
Stddev	.00160	.00017	.00111	.000
%RSD	.80080	.08631	.56484	.0230
#1	.20070	.19613	.19788	1.0000
#2	.19844	.19637	.19630	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3511.5**	**3401.7**	**68726.**	**5781.8**
Stddev	3.0	.1	12.	38.0
%RSD	.08639	.00310	.01764	.65798
#1	3513.7	3401.6	68717.	5754.9
#2	3509.4	3401.8	68735.	5808.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.059%	96.321%	95.260%	94.353%
Range				

Sample Name: 480-198760-B-2-C MSD Acquired: 6/10/2022 0:13:22 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04817**	**9.9713**	**.20845**	**.22538**	**.30092**
Stddev	.00019	.0462	.00034	.00095	.00161
%RSD	.38822	.46369	.16289	.42033	.53487
#1	.04830	10.004	.20869	.22471	.29978
#2	.04803	9.9386	.20821	.22605	.30206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21102**	**108.12**	**.20466**	**-.0192**	**.20684**
Stddev	.00049	.27	.00004	.0140	.00072
%RSD	.23398	.25302	.01980	73.07	.34946
#1	.21137	108.32	.20469	-.0093	.20633
#2	.21068	107.93	.20464	-.0291	.20735
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19958**	**.20633**	**10.304**	**12.895**	**.20283**
Stddev	.00008	.00034	.036	.006	.00106
%RSD	.04239	.16299	.34599	.04903	.52285
#1	.19952	.20656	10.329	12.891	.20358
#2	.19964	.20609	10.279	12.900	.20208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-2-C MSD Acquired: 6/10/2022 0:13:22 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.745**	**.20518**	**.20946**	**48.102**	**.20117**
Stddev	.033	.00006	.00014	.047	.00041
%RSD	.13757	.02755	.06790	.09815	.20368
#1	23.768	.20522	.20956	48.136	.20146
#2	23.722	.20514	.20936	48.069	.20088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.20765**	**13.707**	**.20823**	**.19677**
Stddev	.00	.00008	.029	.00013	.00576
%RSD	.0018	.04050	.20812	.06418	2.9252
#1	25.00	.20759	13.686	.20814	.20084
#2	25.00	.20771	13.727	.20833	.19270
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.277**	**.25532**	**.33944**	**.9998**	**.20603**
Stddev	.010	.00030	.00094	.0005	.00025
%RSD	.08362	.11622	.27654	.0484	.12207
#1	12.284	.25553	.34010	1.000	.20621
#2	12.270	.25511	.33877	.9994	.20585
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-2-C MSD Acquired: 6/10/2022 0:13:22 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20855**	**.20283**	**.20571**	**.9999**
Stddev	.00080	.00010	.00028	.0010
%RSD	.38217	.05027	.13583	.0960
#1	.20799	.20291	.20551	.9992
#2	.20911	.20276	.20591	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3431.2**	**3322.8**	**67279.**	**5655.1**
Stddev	1.4	1.0	67.	.2
%RSD	.04163	.03085	.09961	.00324
#1	3430.2	3323.5	67327.	5655.2
#2	3432.2	3322.1	67232.	5654.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.045%	94.088%	93.255%	92.284%
Range				

Sample Name: 480-198760-B-3-A Acquired: 6/10/2022 0:17:08 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00086**	**-.02640**	**.00062**	**.01202**	**.05685**
Stddev	.00030	.01065	.00044	.00018	.00008
%RSD	34.147	40.350	71.464	1.5124	.14829
#1	-.00107	-.03393	.00094	.01189	.05691
#2	-.00066	-.01887	.00031	.01215	.05679
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**68.686**	**.00001**	**-.0175**	**-.00003**
Stddev	.00001	.020	.00012	.0144	.00024
%RSD	69.614	.02902	947.52	82.16	770.26
#1	.00003	68.672	-.00007	-.0073	-.00020
#2	.00001	68.700	.00010	-.0276	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00050**	**.01234**	**1.5017**	**.00107**
Stddev	.00059	.00046	.00238	.0304	.00137
%RSD	647.49	93.361	19.281	2.0222	127.68
#1	-.00033	.00017	.01066	1.4802	.00010
#2	.00051	.00082	.01402	1.5232	.00204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-3-A Acquired: 6/10/2022 0:17:08 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7875**	**.00435**	**.00009**	**12.222**	**.00001**
Stddev	.0173	.00002	.00003	.008	.00009
%RSD	.17621	.45757	31.345	.06873	619.77
#1	9.7997	.00436	.00007	12.228	.00008
#2	9.7753	.00433	.00011	12.216	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00003**	**2.4878**	**.00009**	**-.00714**
Stddev	.00	.00107	.0070	.00005	.00230
%RSD	.0014	3339.5	.28014	61.490	32.282
#1	25.00	-.00079	2.4927	.00013	-.00551
#2	25.00	.00072	2.4829	.00005	-.00877
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.3708**	**-.00099**	**.09741**	**.9977**	**-.00033**
Stddev	.0048	.00020	.00008	.0019	.00008
%RSD	.20269	20.068	.08205	.1882	24.693
#1	2.3674	-.00085	.09735	.9990	-.00039
#2	2.3742	-.00113	.09747	.9964	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-3-A Acquired: 6/10/2022 0:17:08 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00231**	**-.00020**	**-.00046**	**.9998**
Stddev	.00085	.00010	.00015	.0006
%RSD	36.853	52.124	32.710	.0563
#1	.00291	-.00012	-.00056	1.000
#2	.00171	-.00027	-.00035	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3708.7**	**3461.6**	**70784.**	**5827.3**
Stddev	4.7	1.3	19.	6.0
%RSD	.12717	.03677	.02648	.10289
#1	3705.4	3462.5	70797.	5831.6
#2	3712.1	3460.7	70770.	5823.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.004%	98.019%	98.113%	95.096%
Range				

Sample Name: 480-198760-B-4-A Acquired: 6/10/2022 0:20:59 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00069**	**-.02762**	**.00060**	**.01779**	**.07945**
Stddev	.00035	.00559	.00097	.00028	.00008
%RSD	51.332	20.229	163.32	1.5468	.10437
#1	-.00044	-.03157	.00128	.01759	.07939
#2	-.00093	-.02367	-.00009	.01798	.07951
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**80.254**	**-.00004**	**-.0125**	**-.00014**
Stddev	.00002	.018	.00004	.0089	.00004
%RSD	33.567	.02272	111.01	71.48	28.800
#1	.00009	80.267	-.00007	-.0188	-.00011
#2	.00005	80.241	-.00001	-.0062	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00053**	**.00221**	**2.0735**	**.00198**
Stddev	.00026	.00020	.00135	.0085	.00115
%RSD	196.21	38.310	61.305	.40806	58.012
#1	.00031	-.00039	.00317	2.0675	.00280
#2	-.00005	-.00067	.00125	2.0795	.00117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-4-A Acquired: 6/10/2022 0:20:59 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.622**	**.00008**	**.00037**	**35.911**	**-.00014**
Stddev	.015	.00000	.00004	.027	.00016
%RSD	.11697	1.9473	10.908	.07637	118.59
#1	12.632	.00008	.00040	35.892	-.00025
#2	12.611	.00008	.00034	35.930	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00063**	**3.4990**	**-.00270**	**-.00684**
Stddev	.00	.00094	.0098	.00119	.00070
%RSD	.0002	148.76	.28120	43.918	10.250
#1	25.00	-.00003	3.4920	-.00354	-.00734
#2	25.00	.00130	3.5059	-.00186	-.00634
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.6551**	**-.00116**	**.13108**	**.9977**	**.00008**
Stddev	.0121	.00015	.00029	.0007	.00018
%RSD	.45677	13.219	.21864	.0654	214.15
#1	2.6466	-.00126	.13087	.9972	-.00004
#2	2.6637	-.00105	.13128	.9981	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-4-A Acquired: 6/10/2022 0:20:59 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00342**	**-.00027**	**-.00068**	**.9990**
Stddev	.00086	.00023	.00014	.0006
%RSD	25.141	86.271	20.864	.0607
#1	.00403	-.00010	-.00078	.9994
#2	.00281	-.00043	-.00058	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3526.4**	**3330.7**	**67818.**	**5619.6**
Stddev	4.1	3.4	4.	6.6
%RSD	.11708	.10060	.00534	.11764
#1	3523.5	3333.1	67816.	5615.0
#2	3529.3	3328.3	67821.	5624.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.433%	94.312%	94.002%	91.706%
Range				

Sample Name: 480-198760-B-5-A Acquired: 6/10/2022 0:24:49 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**-.03341**	**.00058**	**.01895**	**.09089**
Stddev	.00014	.00309	.00298	.00043	.00000
%RSD	18.452	9.2535	508.76	2.2704	.00138
#1	-.00089	-.03559	-.00152	.01925	.09089
#2	-.00068	-.03122	.00269	.01864	.09089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**83.769**	**.00024**	**-.0084**	**-.00005**
Stddev	.00004	.106	.00015	.0256	.00008
%RSD	74.352	.12712	63.006	304.6	177.77
#1	.00007	83.693	.00034	-.0265	.00001
#2	.00002	83.844	.00013	.0097	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**-.00014**	**.00636**	**2.3069**	**.00343**
Stddev	.00039	.00003	.00244	.0092	.00036
%RSD	149.48	19.912	38.323	.39946	10.529
#1	.00001	-.00016	.00464	2.3004	.00369
#2	-.00054	-.00012	.00808	2.3134	.00318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-5-A Acquired: 6/10/2022 0:24:49 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.250**	**.00049**	**-.00044**	**41.709**	**.00051**
Stddev	.038	.00006	.00020	.043	.00002
%RSD	.28513	11.998	46.669	.10322	4.6127
#1	13.276	.00053	-.00058	41.679	.00049
#2	13.223	.00045	-.00029	41.740	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00055**	**4.2335**	**-.00208**	**-.00882**
Stddev	.00	.00006	.0127	.00209	.00190
%RSD	.0003	11.274	.29883	100.49	21.494
#1	25.00	.00051	4.2245	-.00060	-.01016
#2	25.00	.00059	4.2424	-.00355	-.00748
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.0817**	**-.00100**	**.13124**	**.9991**	**-.00008**
Stddev	.0191	.00088	.00013	.0058	.00021
%RSD	.61819	88.304	.10092	.5797	268.97
#1	3.0952	-.00038	.13134	.9950	-.00023
#2	3.0682	-.00162	.13115	1.003	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-5-A Acquired: 6/10/2022 0:24:49 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00107**	**-.00021**	**.00057**	**.9987**
Stddev	.00122	.00008	.00029	.0009
%RSD	113.85	37.383	51.412	.0901
#1	.00021	-.00026	.00036	.9993
#2	.00193	-.00015	.00078	.9981
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3542.9**	**3351.7**	**68005.**	**5705.3**
Stddev	6.1	5.4	154.	.5
%RSD	.17294	.16186	.22668	.00834
#1	3538.6	3347.9	67896.	5705.6
#2	3547.2	3355.6	68114.	5705.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.846%	94.907%	94.261%	93.104%
Range				

Sample Name: 480-198760-B-6-A Acquired: 6/10/2022 0:28:41 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**-.04368**	**.01876**	**.06019**	**.40412**
Stddev	.00021	.00789	.00148	.00002	.00099
%RSD	38.458	18.056	7.8646	.03265	.24471
#1	-.00069	-.03810	.01981	.06020	.40482
#2	-.00039	-.04926	.01772	.06018	.40342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**72.216**	**-.00006**	**-.0430**	**-.00032**
Stddev	.00001	.364	.00001	.0112	.00005
%RSD	47.240	.50362	9.2418	26.07	16.966
#1	.00001	72.474	-.00006	-.0350	-.00036
#2	.00003	71.959	-.00006	-.0509	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**-.00001**	**.35570**	**1.5125**	**.00990**
Stddev	.00029	.00008	.00256	.0201	.00003
%RSD	107.30	588.95	.72083	1.3266	.32258
#1	-.00007	-.00007	.35752	1.4983	.00992
#2	-.00048	.00004	.35389	1.5267	.00987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-6-A Acquired: 6/10/2022 0:28:41 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.823**	**.20669**	**.00132**	**40.149**	**.00013**
Stddev	.022	.00041	.00003	.161	.00011
%RSD	.13995	.19597	2.0572	.39984	81.217
#1	15.838	.20698	.00131	40.262	.00006
#2	15.807	.20641	.00134	40.035	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00081**	**5.1359**	**-.00156**	**-.00976**
Stddev	.00	.00020	.0034	.00127	.00085
%RSD	.0028	25.211	.06666	81.882	8.7009
#1	25.03	.00095	5.1383	-.00246	-.01036
#2	25.03	.00066	5.1335	-.00065	-.00916
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5978**	**-.00051**	**.36627**	**.9947**	**-.00020**
Stddev	.0171	.00058	.00110	.0012	.00006
%RSD	.37098	113.22	.30017	.1197	29.423
#1	4.6098	-.00092	.36705	.9956	-.00016
#2	4.5857	-.00010	.36549	.9939	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-6-A Acquired: 6/10/2022 0:28:41 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00178**	**-.00017**	**-.00102**	**.9996**
Stddev	.00004	.00016	.00035	.0003
%RSD	2.4326	96.848	34.022	.0320
#1	.00175	-.00005	-.00126	.9999
#2	.00181	-.00028	-.00077	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3587.5**	**3387.6**	**68808.**	**5699.0**
Stddev	2.4	3.9	151.	36.5
%RSD	.06708	.11474	.21988	.64100
#1	3585.8	3384.8	68701.	5673.2
#2	3589.2	3390.3	68915.	5724.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.963%	95.922%	95.374%	93.002%
Range				

Sample Name: 480-198760-B-7-A Acquired: 6/10/2022 0:32:36 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**-.01603**	**.01242**	**.15254**	**.06770**
Stddev	.00024	.01378	.00368	.00067	.00003
%RSD	37.328	85.951	29.651	.43803	.04059
#1	-.00080	-.02577	.00982	.15206	.06768
#2	-.00047	-.00629	.01502	.15301	.06772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**36.071**	**.00010**	**-.0289**	**-.00018**
Stddev	.00002	.048	.00010	.0386	.00006
%RSD	28.948	.13334	103.51	133.9	31.799
#1	.00005	36.105	.00003	-.0562	-.00022
#2	.00008	36.037	.00017	-.0015	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00008**	**.14374**	**1.3436**	**.00683**
Stddev	.00003	.00031	.00357	.0018	.00033
%RSD	93.975	409.86	2.4861	.13613	4.8848
#1	-.00006	-.00029	.14121	1.3423	.00707
#2	-.00001	.00014	.14626	1.3449	.00659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-7-A Acquired: 6/10/2022 0:32:36 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8548**	**.08807**	**.00938**	**42.906**	**.00002**
Stddev	.0001	.00001	.00022	.017	.00014
%RSD	.00134	.01252	2.3814	.03868	911.60
#1	9.8547	.08807	.00922	42.917	.00011
#2	9.8549	.08806	.00954	42.894	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00056**	**11.539**	**-.00351**	**-.01186**
Stddev	.00	.00050	.009	.00035	.00283
%RSD	.0004	88.913	.07660	9.8424	23.913
#1	25.01	.00021	11.532	-.00326	-.00985
#2	25.01	.00091	11.545	-.00375	-.01386
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.7628**	**-.00076**	**.32991**	**.9946**	**-.00031**
Stddev	.0208	.00042	.00059	.0079	.00009
%RSD	.36145	55.654	.17979	.7927	29.890
#1	5.7481	-.00046	.33032	.9891	-.00024
#2	5.7776	-.00106	.32949	1.000	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-7-A Acquired: 6/10/2022 0:32:36 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00177**	**-.00031**	**.00101**	**.9995**
Stddev	.00010	.00036	.00037	.0004
%RSD	5.6174	118.41	36.716	.0419
#1	.00170	-.00056	.00075	.9992
#2	.00184	-.00005	.00127	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3693.8**	**3453.1**	**70033.**	**5809.9**
Stddev	.8	.8	57.	21.6
%RSD	.02048	.02240	.08117	.37158
#1	3694.3	3452.6	69993.	5794.6
#2	3693.3	3453.7	70073.	5825.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.630%	97.778%	97.072%	94.811%
Range				

Sample Name: CCV-7024752 Acquired: 6/10/2022 0:36:26 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99727**	**50.771**	**1.0255**	**1.0559**	**1.0405**
Stddev	.00237	.068	.0032	.0015	.0015
%RSD	.23755	.13353	.31421	.14475	.14552
#1	.99894	50.819	1.0278	1.0548	1.0416
#2	.99559	50.723	1.0232	1.0569	1.0394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0275**	**51.178**	**1.0389**	**.9758**	**1.0348**
Stddev	.0018	.036	.0014	.0438	.0002
%RSD	.17778	.07036	.13791	4.490	.02349
#1	1.0288	51.204	1.0378	1.007	1.0346
#2	1.0262	51.153	1.0399	.9449	1.0350
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0208**	**1.0184**	**52.630**	**52.579**	**1.0205**
Stddev	.0002	.0003	.126	.164	.0037
%RSD	.01776	.03356	.24002	.31267	.36537
#1	1.0209	1.0186	52.720	52.695	1.0232
#2	1.0207	1.0181	52.541	52.463	1.0179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 0:36:26 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.004**	**1.0378**	**1.0272**	**51.924**	**1.0327**
Stddev	.012	.0012	.0028	.108	.0009
%RSD	.02389	.11251	.27664	.20765	.08889
#1	50.996	1.0370	1.0292	52.000	1.0320
#2	51.013	1.0386	1.0252	51.848	1.0333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.13**	**1.0381**	**25.804**	**1.0072**	**1.0189**
Stddev	.00	.0004	.023	.0008	.0027
%RSD	.0012	.03946	.08761	.07440	.26871
#1	38.13	1.0378	25.788	1.0067	1.0208
#2	38.13	1.0384	25.820	1.0077	1.0169
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.131**	**1.0446**	**1.0362**	**1.527**	**1.0192**
Stddev	.034	.0009	.0013	.000	.0011
%RSD	.33169	.08523	.12577	.0070	.11148
#1	10.155	1.0440	1.0372	1.527	1.0200
#2	10.108	1.0453	1.0353	1.527	1.0184
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 0:36:26 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0464**	**1.0291**	**1.0795**	**1.520**
Stddev	.0006	.0002	.0002	.001
%RSD	.05342	.01536	.01718	.0901
#1	1.0468	1.0292	1.0794	1.519
#2	1.0460	1.0290	1.0797	1.521
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3404.1**	**3363.2**	**67233.**	**5588.8**
Stddev	6.3	7.6	18.	6.9
%RSD	.18490	.22585	.02705	.12375
#1	3408.6	3368.6	67246.	5593.7
#2	3399.7	3357.9	67220.	5584.0

Sample Name: CCB-7026764 Acquired: 6/10/2022 0:40:07 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00096**	**-.02741**	**.00106**	**.00057**	**.00002**
Stddev	.00020	.01804	.00223	.00054	.00003
%RSD	21.185	65.817	210.00	93.594	155.11
#1	-.00110	-.04016	.00264	.00095	-.00000
#2	-.00082	-.01465	-.00051	.00019	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00292**	**.00006**	**.0012**	**-.00006**
Stddev	.00008	.00027	.00005	.0165	.00012
%RSD	94.974	9.2996	91.964	1368.	212.55
#1	.00003	.00311	.00002	.0129	.00003
#2	.00014	.00273	.00009	-.0105	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00045**	**.01053**	**.02369**	**-.00108**
Stddev	.00025	.00028	.00156	.02256	.00085
%RSD	1665.5	62.575	14.817	95.214	78.065
#1	.00019	.00065	.00942	.03964	-.00049
#2	-.00016	.00025	.01163	.00774	-.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 0:40:07 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00229**	**.00005**	**.00223**	**.03285**	**-.00009**
Stddev	.00210	.00002	.00044	.00459	.00014
%RSD	91.637	34.345	19.885	13.974	156.81
#1	.00081	.00006	.00192	.03610	.00001
#2	.00378	.00004	.00254	.02961	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00016**	**-.01736**	**-.00017**	**.00368**
Stddev	.00	.00027	.00165	.00150	.00284
%RSD	.0009	168.91	9.5257	873.58	77.184
#1	25.00	.00035	-.01619	-.00123	.00167
#2	25.00	-.00003	-.01853	.00089	.00569
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01647**	**-.00036**	**.00007**	**.9983**	**.00044**
Stddev	.00699	.00039	.00002	.0004	.00029
%RSD	42.436	110.72	30.316	.0418	65.260
#1	-.01153	-.00008	.00009	.9986	.00024
#2	-.02142	-.00063	.00006	.9980	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 0:40:07 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00165**	**-.00023**	**.00025**	**.9990**
Stddev	.00087	.00003	.00047	.0002
%RSD	52.483	12.777	188.59	.0209
#1	.00104	-.00025	-.00008	.9992
#2	.00226	-.00021	.00058	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4000.8**	**3551.6**	**72362.**	**5783.2**
Stddev	6.3	3.9	113.	9.4
%RSD	.15690	.10877	.15666	.16212
#1	3996.4	3548.8	72281.	5789.8
#2	4005.2	3554.3	72442.	5776.5

Sample Name: CCVL-7019501 Acquired: 6/10/2022 0:44:01 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00501**	**.17776**	**.01247**	**.01862**	**.00207**
Stddev	.00044	.00461	.00096	.00008	.00002
%RSD	8.8636	2.5931	7.7290	.40431	.73120
#1	.00533	.18102	.01315	.01857	.00208
#2	.00470	.17450	.01179	.01868	.00206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.49003**	**.00194**	**-.0266**	**.00370**
Stddev	.00004	.00076	.00026	.0257	.00010
%RSD	1.7425	.15463	13.576	96.59	2.7403
#1	.00202	.49056	.00213	-.0447	.00363
#2	.00207	.48949	.00175	-.0084	.00378
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00326**	**.01022**	**.04973**	**.48593**	**.02813**
Stddev	.00019	.00007	.00089	.03579	.00224
%RSD	5.8891	.63911	1.7893	7.3655	7.9483
#1	.00340	.01018	.04911	.46062	.02655
#2	.00313	.01027	.05036	.51124	.02971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7019501 Acquired: 6/10/2022 0:44:01 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18919**	**.00288**	**.00929**	**.99152**	**.00917**
Stddev	.00155	.00000	.00033	.00243	.00023
%RSD	.81735	.00493	3.5445	.24498	2.5284
#1	.18810	.00288	.00906	.98980	.00901
#2	.19028	.00288	.00952	.99324	.00934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00891**	**.16634**	**.01722**	**.02074**
Stddev	.00	.00000	.00239	.00103	.00103
%RSD	.0045	.04229	1.4356	5.9535	4.9447
#1	25.00	.00891	.16802	.01650	.02146
#2	25.00	.00890	.16465	.01795	.02001
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.42981**	**.00885**	**.00498**	F **.9981**	**.00431**
Stddev	.01553	.00028	.00002	.0032	.00013
%RSD	3.6130	3.2089	.41319	.3198	3.0897
#1	.44079	.00905	.00497	.9958	.00421
#2	.41882	.00865	.00500	1.000	.00440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7019501 Acquired: 6/10/2022 0:44:01 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02102**	**.00456**	**.00733**	F **1.000**
Stddev	.00169	.00013	.00084	.000
%RSD	8.0401	2.8971	11.529	.0180
#1	.02221	.00466	.00673	1.000
#2	.01982	.00447	.00792	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4002.9**	**3571.1**	**72606.**	**5820.3**
Stddev	1.5	.5	139.	16.4
%RSD	.03800	.01311	.19086	.28092
#1	4004.0	3570.8	72508.	5808.8
#2	4001.9	3571.5	72704.	5831.9

Sample Name: 480-198760-B-8-A Acquired: 6/10/2022 0:47:53 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00097**	**-.02046**	**-.00125**	**.04105**	**.05246**
Stddev	.00034	.00137	.00006	.00050	.00002
%RSD	34.837	6.6826	4.7643	1.2273	.03159
#1	-.00073	-.02143	-.00129	.04141	.05245
#2	-.00121	-.01949	-.00121	.04070	.05247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**50.013**	**.00227**	**-.0160**	**.00022**
Stddev	.00007	.031	.00003	.0001	.00004
%RSD	198.43	.06131	1.3791	.6266	16.928
#1	.00008	50.035	.00224	-.0160	.00019
#2	-.00001	49.991	.00229	-.0159	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.01243**	**.00978**	**3.0441**	**.00067**
Stddev	.00032	.00010	.00123	.0413	.00111
%RSD	156.83	.83874	12.533	1.3562	166.41
#1	-.00002	.01250	.01065	3.0733	-.00012
#2	.00043	.01236	.00892	3.0149	.00145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-8-A Acquired: 6/10/2022 0:47:53 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.0198**	**.00418**	**.00808**	**6.0895**	**.00371**
Stddev	.0153	.00002	.00033	.0009	.00010
%RSD	.25475	.38186	4.0955	.01452	2.7264
#1	6.0089	.00417	.00784	6.0902	.00364
#2	6.0306	.00419	.00831	6.0889	.00378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00070**	**3.8605**	**-.00023**	**-.00681**
Stddev	.00	.00020	.0091	.00104	.00192
%RSD	.0019	28.090	.23674	444.49	28.195
#1	25.01	.00056	3.8540	.00050	-.00545
#2	25.01	.00084	3.8669	-.00097	-.00817
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.3222**	**-.00112**	**.13779**	**.9944**	**-.00031**
Stddev	.0067	.00042	.00039	.0033	.00012
%RSD	.15549	37.429	.28039	.3347	39.104
#1	4.3269	-.00142	.13806	.9967	-.00022
#2	4.3174	-.00083	.13752	.9920	-.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-8-A Acquired: 6/10/2022 0:47:53 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00207**	**-.00035**	**.00451**	**.9997**
Stddev	.00136	.00014	.00044	.0000
%RSD	65.421	40.145	9.6566	.0000
#1	.00303	-.00025	.00482	.9997
#2	.00111	-.00044	.00421	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3754.4**	**3464.9**	**70391.**	**5798.3**
Stddev	2.5	3.5	61.	5.5
%RSD	.06569	.10231	.08721	.09439
#1	3756.1	3467.4	70435.	5802.2
#2	3752.7	3462.4	70348.	5794.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.150%	98.112%	97.569%	94.622%
Range				

Sample Name: 480-198760-B-9-A Acquired: 6/10/2022 0:51:43 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**-.02359**	**.00069**	**.05034**	**.09756**
Stddev	.00018	.00825	.00070	.00031	.00008
%RSD	38.156	34.968	101.48	.62112	.08034
#1	-.00060	-.02942	.00119	.05056	.09762
#2	-.00035	-.01775	.00020	.05011	.09751
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**70.958**	**.00012**	**-.0088**	**.00017**
Stddev	.00002	.085	.00011	.0157	.00014
%RSD	46.524	.11912	89.308	177.8	82.391
#1	.00004	70.898	.00004	-.0199	.00007
#2	.00002	71.018	.00020	.0023	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.00078**	**.00355**	**5.3430**	**.00351**
Stddev	.00038	.00025	.00055	.0441	.00162
%RSD	102.26	31.707	15.620	.82621	46.018
#1	-.00065	.00096	.00394	5.3118	.00237
#2	-.00010	.00061	.00315	5.3743	.00465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-9-A Acquired: 6/10/2022 0:51:43 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.174**	**.50867**	**.00462**	**32.316**	**.00159**
Stddev	.002	.00048	.00027	.079	.00005
%RSD	.02037	.09490	5.7928	.24376	3.0224
#1	10.175	.50833	.00443	32.260	.00162
#2	10.172	.50901	.00481	32.372	.00156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00158**	**7.9404**	**-.00326**	**-.00436**
Stddev	.00	.00010	.0173	.00116	.00473
%RSD	.0011	6.2666	.21781	35.574	108.57
#1	25.00	.00151	7.9526	-.00408	-.00770
#2	25.00	.00165	7.9282	-.00244	-.00101
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.7550**	**-.00083**	**.23365**	**.9988**	**-.00019**
Stddev	.0111	.00097	.00033	.0022	.00035
%RSD	.29476	116.63	.14071	.2219	188.58
#1	3.7628	-.00151	.23341	1.000	.00006
#2	3.7472	-.00015	.23388	.9972	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-9-A Acquired: 6/10/2022 0:51:43 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00127**	**-.00008**	**-.00024**	**.9989**
Stddev	.00015	.00018	.00053	.0000
%RSD	11.748	229.79	223.01	.0036
#1	.00138	.00005	.00014	.9990
#2	.00117	-.00021	-.00062	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3658.2**	**3431.4**	**69861.**	**5814.1**
Stddev	2.5	3.9	107.	4.8
%RSD	.06847	.11509	.15374	.08304
#1	3656.4	3428.6	69785.	5817.5
#2	3660.0	3434.2	69937.	5810.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.737%	97.163%	96.834%	94.879%
Range				

Sample Name: 480-198760-B-10-A Acquired: 6/10/2022 0:55:32 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00793**	**.00087**	**.00488**	**.07368**
Stddev	.00030	.00995	.00095	.00036	.00007
%RSD	114.35	125.44	109.51	7.3229	.08871
#1	-.00047	.01496	.00020	.00514	.07372
#2	-.00005	.00090	.00154	.00463	.07363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**91.770**	**.00018**	**-.0373**	**.00001**
Stddev	.00002	.121	.00013	.0020	.00007
%RSD	19.352	.13141	71.223	5.303	492.24
#1	.00007	91.855	.00026	-.0387	-.00003
#2	.00010	91.684	.00009	-.0359	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.00532**	**.04229**	**5.9485**	**.00455**
Stddev	.00056	.00017	.00042	.0882	.00028
%RSD	186.45	3.1031	.99667	1.4827	6.0705
#1	.00010	.00544	.04199	6.0109	.00436
#2	-.00070	.00520	.04259	5.8862	.00475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-10-A Acquired: 6/10/2022 0:55:32 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.935**	**.05327**	**-.00039**	**1.8497**	**.00128**
Stddev	.009	.00009	.00044	.0138	.00005
%RSD	.07748	.16313	114.91	.74406	3.9486
#1	11.942	.05333	-.00070	1.8595	.00132
#2	11.929	.05321	-.00007	1.8400	.00125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00061**	**6.0971**	**-.00201**	**-.00865**
Stddev	.00	.00089	.0109	.00138	.00015
%RSD	.0048	145.01	.17914	68.708	1.7222
#1	25.01	.00124	6.1049	-.00103	-.00855
#2	25.01	-.00002	6.0894	-.00298	-.00876
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5749**	**-.00035**	**.26981**	**.9986**	**.00158**
Stddev	.0043	.00026	.00084	.0012	.00169
%RSD	.16565	74.526	.31126	.1199	106.66
#1	2.5779	-.00053	.27041	.9978	.00277
#2	2.5719	-.00016	.26922	.9995	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-10-A Acquired: 6/10/2022 0:55:32 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00241**	**-.00008**	**.00439**	**.9996**
Stddev	.00001	.00011	.00024	.0010
%RSD	.39726	145.47	5.5476	.0971
#1	.00241	-.00015	.00456	.9989
#2	.00242	.00000	.00422	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3687.9**	**3437.9**	**70126.**	**5832.7**
Stddev	11.3	7.3	123.	4.2
%RSD	.30665	.21316	.17595	.07250
#1	3679.9	3432.8	70038.	5835.7
#2	3695.9	3443.1	70213.	5829.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.483%	97.348%	97.200%	95.184%
Range				

Sample Name: 480-198760-B-11-A Acquired: 6/10/2022 0:59:22 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**-.03994**	**.01164**	**.01631**	**.20058**
Stddev	.00019	.00139	.00044	.00008	.00016
%RSD	29.107	3.4686	3.8063	.47151	.07980
#1	-.00052	-.04091	.01195	.01626	.20047
#2	-.00079	-.03896	.01133	.01637	.20070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**80.466**	**.00009**	**-.0407**	**.00008**
Stddev	.00001	.215	.00007	.0127	.00007
%RSD	93.670	.26763	75.523	31.31	92.742
#1	-.00000	80.619	.00004	-.0317	.00003
#2	-.00002	80.314	.00014	-.0497	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**-.00018**	**1.0888**	**1.2909**	**.00604**
Stddev	.00005	.00017	.0036	.0164	.00035
%RSD	17.378	94.868	.33162	1.2716	5.8054
#1	-.00026	-.00031	1.0863	1.3025	.00580
#2	-.00033	-.00006	1.0914	1.2793	.00629
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-11-A Acquired: 6/10/2022 0:59:22 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.622**	**.59545**	**.00253**	**4.1408**	**.00040**
Stddev	.001	.00010	.00003	.0149	.00008
%RSD	.00364	.01616	1.0403	.35865	20.977
#1	17.623	.59538	.00251	4.1513	.00046
#2	17.622	.59552	.00255	4.1303	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00134**	**4.9302**	**-.00207**	**-.00834**
Stddev	.00	.00039	.0111	.00039	.00050
%RSD	.0002	29.012	.22583	18.911	5.9389
#1	25.01	.00106	4.9381	-.00235	-.00869
#2	25.01	.00161	4.9223	-.00179	-.00799
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.8399**	**-.00029**	**.17043**	**.9945**	**-.00028**
Stddev	.0466	.00011	.00068	.0102	.00003
%RSD	.79745	38.412	.40174	1.021	10.332
#1	5.8728	-.00021	.17092	1.002	-.00030
#2	5.8070	-.00037	.16995	.9873	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-11-A Acquired: 6/10/2022 0:59:22 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00093**	**-.00033**	**-.00024**	**.9993**
Stddev	.00042	.00013	.00048	.0002
%RSD	45.245	39.300	201.86	.0213
#1	.00064	-.00024	.00010	.9991
#2	.00123	-.00043	-.00058	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3612.3**	**3355.5**	**68337.**	**5683.1**
Stddev	4.7	2.8	76.	27.6
%RSD	.13050	.08277	.11192	.48563
#1	3609.0	3353.6	68283.	5663.6
#2	3615.7	3357.5	68391.	5702.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.587%	95.014%	94.721%	92.742%
Range				

Sample Name: 480-198760-B-12-A Acquired: 6/10/2022 1:03:12 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00118**	**.00471**	**.00198**	**.01434**	**.01323**
Stddev	.00029	.01470	.00142	.00035	.00001
%RSD	24.175	312.15	71.545	2.4631	.07177
#1	-.00139	-.00569	.00298	.01409	.01324
#2	-.00098	.01511	.00098	.01459	.01322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**30.206**	**.00007**	**.0016**	**.00011**
Stddev	.00003	.017	.00003	.0337	.00027
%RSD	44.330	.05514	38.118	2146.	257.17
#1	.00009	30.217	.00009	-.0223	.00030
#2	.00005	30.194	.00005	.0254	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00712**	**.00920**	**2.0911**	**.00332**
Stddev	.00032	.00035	.00322	.0249	.00006
%RSD	111.72	4.9628	34.973	1.1910	1.8575
#1	.00051	.00687	.00692	2.0735	.00328
#2	.00006	.00737	.01147	2.1087	.00337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-12-A Acquired: 6/10/2022 1:03:12 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0294**	**.00566**	**.00385**	**2.3229**	**.00094**
Stddev	.0007	.00002	.00000	.0008	.00034
%RSD	.03426	.28476	.10582	.03486	35.945
#1	2.0289	.00565	.00384	2.3223	.00118
#2	2.0299	.00567	.00385	2.3234	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00082**	**5.1623**	**-.00205**	**-.00437**
Stddev	.00	.00174	.0085	.00091	.00194
%RSD	.0021	211.80	.16381	44.484	44.404
#1	25.01	.00205	5.1682	-.00270	-.00300
#2	25.01	-.00041	5.1563	-.00141	-.00574
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.1880**	**-.00052**	**.08998**	**.9963**	**-.00050**
Stddev	.0092	.00027	.00017	.0025	.00034
%RSD	.12802	50.922	.19165	.2486	68.791
#1	7.1815	-.00033	.08986	.9946	-.00075
#2	7.1945	-.00071	.09010	.9981	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-12-A Acquired: 6/10/2022 1:03:12 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00027**	**.00091**	**-.00069**	**.9997**
Stddev	.00043	.00025	.00032	.0001
%RSD	158.00	27.697	46.015	.0071
#1	.00057	.00073	-.00092	.9996
#2	-.00003	.00108	-.00047	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3772.8**	**3412.0**	**69177.**	**5698.2**
Stddev	1.7	2.8	141.	13.7
%RSD	.04471	.08314	.20330	.24127
#1	3771.6	3410.0	69276.	5688.5
#2	3774.0	3414.0	69077.	5708.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.612%	96.613%	95.885%	92.989%
Range				

Sample Name: 480-198760-B-13-A Acquired: 6/10/2022 1:07:02 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**-.02901**	**-.00159**	**.01139**	**.06756**
Stddev	.00016	.01934	.00027	.00026	.00004
%RSD	19.362	66.688	16.862	2.3092	.06598
#1	-.00070	-.01533	-.00140	.01158	.06760
#2	-.00092	-.04269	-.00178	.01120	.06753
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**84.946**	**.00017**	**-.0239**	**-.00017**
Stddev	.00003	.017	.00009	.0133	.00010
%RSD	312.49	.02051	53.822	55.41	55.473
#1	-.00001	84.933	.00011	-.0333	-.00024
#2	.00003	84.958	.00023	-.0146	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.00022**	**.00192**	**1.5796**	**.00170**
Stddev	.00021	.00037	.00073	.0251	.00021
%RSD	138.29	171.25	38.149	1.5923	12.056
#1	.00000	-.00005	.00140	1.5974	.00185
#2	.00030	.00048	.00244	1.5619	.00156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-13-A Acquired: 6/10/2022 1:07:02 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.307**	**.00053**	**-.00171**	**27.872**	**.00005**
Stddev	.001	.00000	.00009	.016	.00022
%RSD	.00509	.22067	5.4576	.05881	422.52
#1	11.306	.00053	-.00165	27.860	-.00010
#2	11.307	.00053	-.00178	27.884	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00110**	**2.7738**	**-.00153**	**-.00966**
Stddev	.00	.00020	.0022	.00152	.00040
%RSD	.0048	18.244	.07870	99.308	4.1314
#1	25.01	.00096	2.7722	-.00046	-.00938
#2	25.00	.00124	2.7753	-.00261	-.00994
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8522**	**-.00095**	**.12163**	**.9971**	**-.00022**
Stddev	.0024	.00016	.00015	.0040	.00020
%RSD	.13082	16.583	.12196	.4048	93.482
#1	1.8539	-.00084	.12152	1.0000	-.00007
#2	1.8505	-.00106	.12173	.9943	-.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-13-A Acquired: 6/10/2022 1:07:02 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00153**	**-.00035**	**.00728**	**.9996**
Stddev	.00107	.00015	.00032	.0002
%RSD	70.091	43.396	4.4471	.0176
#1	.00229	-.00024	.00751	.9995
#2	.00077	-.00046	.00705	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3630.7**	**3414.5**	**69474.**	**5772.2**
Stddev	2.2	.1	75.	8.1
%RSD	.05984	.00283	.10737	.14094
#1	3629.1	3414.6	69422.	5766.5
#2	3632.2	3414.5	69527.	5778.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.047%	96.685%	96.298%	94.196%
Range				

Sample Name: 480-198760-B-14-A Acquired: 6/10/2022 1:10:54 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00772**	**-.00138**	**.01975**	**.11641**
Stddev	.00001	.00623	.00021	.00021	.00012
%RSD	13.337	80.698	15.051	1.0411	.10558
#1	.00007	.00331	-.00152	.01960	.11650
#2	.00009	.01212	-.00123	.01989	.11632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**80.656**	**.00030**	**.0332**	**-.00002**
Stddev	.00005	.083	.00015	.0343	.00028
%RSD	408.45	.10272	49.682	103.2	1381.2
#1	-.00002	80.714	.00040	.0574	.00018
#2	.00005	80.597	.00019	.0090	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00007**	**.00630**	**2.2722**	**.00344**
Stddev	.00008	.00038	.00100	.0218	.00039
%RSD	106.18	550.43	15.859	.95954	11.217
#1	-.00013	-.00020	.00559	2.2877	.00317
#2	-.00002	.00034	.00700	2.2568	.00371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-14-A Acquired: 6/10/2022 1:10:54 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.260**	**.01687**	**.00168**	**11.664**	**.00019**
Stddev	.009	.00007	.00016	.036	.00005
%RSD	.07545	.43385	9.5833	.30622	28.220
#1	12.253	.01681	.00179	11.690	.00022
#2	12.266	.01692	.00157	11.639	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00085**	**3.1427**	**-.00252**	**-.00864**
Stddev	.00	.00038	.0023	.00078	.00387
%RSD	.0002	44.126	.07313	31.069	44.850
#1	25.00	.00059	3.1411	-.00197	-.01138
#2	25.00	.00112	3.1444	-.00307	-.00590
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1042**	**-.00102**	**.13894**	**1.001**	**.00008**
Stddev	.0071	.00004	.00040	.004	.00020
%RSD	.22979	3.9022	.29038	.4439	245.92
#1	3.1092	-.00105	.13923	.9975	.00022
#2	3.0992	-.00099	.13866	1.004	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-14-A Acquired: 6/10/2022 1:10:54 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00135**	**-.00046**	**-.00156**	**.9995**
Stddev	.00003	.00003	.00031	.0001
%RSD	2.4466	7.6542	19.641	.0094
#1	.00137	-.00048	-.00134	.9994
#2	.00133	-.00043	-.00177	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3644.8**	**3402.4**	**69300.**	**5738.6**
Stddev	2.9	2.0	7.	13.2
%RSD	.08093	.05951	.01065	.22956
#1	3646.9	3403.8	69295.	5748.0
#2	3642.7	3401.0	69305.	5729.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.402%	96.342%	96.056%	93.648%
Range				

Sample Name: 480-198760-B-15-A Acquired: 6/10/2022 1:14:44 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00121**	**-.02284**	**.00141**	**.11658**	**.09228**
Stddev	.00002	.01265	.00129	.00056	.00009
%RSD	1.7211	55.408	91.623	.47834	.09392
#1	-.00123	-.01389	.00050	.11698	.09221
#2	-.00120	-.03178	.00233	.11619	.09234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**54.384**	**-.00005**	**-.0247**	**-.00006**
Stddev	.00012	.043	.00024	.0065	.00015
%RSD	417.20	.07842	481.02	26.31	269.04
#1	-.00006	54.353	.00012	-.0294	-.00016
#2	.00012	54.414	-.00022	-.0201	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**-.00037**	**.03050**	**1.5341**	**.01102**
Stddev	.00000	.00008	.00026	.0025	.00215
%RSD	1.6524	21.320	.85061	.16414	19.508
#1	.00006	-.00043	.03068	1.5358	.01254
#2	.00007	-.00032	.03031	1.5323	.00950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-15-A Acquired: 6/10/2022 1:14:44 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.081**	**.31625**	**.00218**	**22.853**	**.00041**
Stddev	.036	.00068	.00020	.026	.00001
%RSD	.23892	.21510	8.9805	.11228	3.4444
#1	15.107	.31673	.00204	22.834	.00040
#2	15.056	.31576	.00232	22.871	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00130**	**7.8308**	**-.00284**	**-.00966**
Stddev	.00	.00028	.0050	.00168	.00271
%RSD	.0013	21.655	.06426	59.015	28.084
#1	25.00	.00150	7.8272	-.00403	-.01158
#2	25.00	.00110	7.8344	-.00166	-.00774
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.8926**	**.00007**	**.41282**	**.9981**	**.00008**
Stddev	.0063	.00013	.00028	.0047	.00014
%RSD	.09202	179.59	.06903	.4692	162.79
#1	6.8881	.00016	.41262	.9948	.00018
#2	6.8971	-.00002	.41302	1.001	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-B-15-A Acquired: 6/10/2022 1:14:44 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00181**	**-.00027**	**-.00062**	**.9990**
Stddev	.00023	.00051	.00002	.0004
%RSD	12.900	188.88	3.9402	.0431
#1	.00165	-.00064	-.00060	.9993
#2	.00198	.00009	-.00064	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3653.6**	**3406.2**	**69147.**	**5754.5**
Stddev	1.9	.5	100.	14.0
%RSD	.05285	.01323	.14514	.24362
#1	3652.2	3406.5	69076.	5744.6
#2	3654.9	3405.9	69218.	5764.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.621%	96.449%	95.844%	93.907%
Range				

Sample Name: MB 480-629262/1-A Acquired: 6/10/2022 1:18:33 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**-.02570**	**-.00300**	**-.00066**	**.00004**
Stddev	.00019	.00788	.00033	.00027	.00001
%RSD	52.635	30.670	11.121	40.996	16.301
#1	-.00049	-.02012	-.00324	-.00085	.00004
#2	-.00022	-.03127	-.00277	-.00047	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.03015**	**-.00005**	**-.0096**	**-.00010**
Stddev	.00008	.00248	.00022	.0575	.00013
%RSD	445.83	8.2248	420.25	598.4	129.07
#1	.00008	.02840	-.00021	-.0503	-.00001
#2	-.00004	.03191	.00010	.0311	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.00064**	**.00052**	**.00722**	**.00021**
Stddev	.00032	.00008	.00128	.00493	.00148
%RSD	91.403	11.791	244.75	68.260	717.68
#1	-.00057	.00058	.00143	.01070	-.00084
#2	-.00012	.00069	-.00038	.00373	.00125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629262/1-A Acquired: 6/10/2022 1:18:33 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00160**	**.00017**	**-.00158**	**.05364**	**-.00002**
Stddev	.00104	.00010	.00005	.00770	.00006
%RSD	64.921	55.825	3.0944	14.359	379.19
#1	.00234	.00010	-.00161	.05908	.00003
#2	.00087	.00024	-.00155	.04819	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00043**	**-.01230**	**-.00046**	**-.00412**
Stddev	.00	.00003	.00216	.00008	.00441
%RSD	.0032	6.3039	17.572	18.157	107.14
#1	25.00	-.00041	-.01077	-.00040	-.00100
#2	25.00	-.00045	-.01383	-.00052	-.00724
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02258**	**-.00078**	**.00002**	**.9972**	**-.00027**
Stddev	.00640	.00003	.00002	.0017	.00002
%RSD	28.364	3.3341	83.324	.1752	5.7094
#1	-.01805	-.00076	.00003	.9959	-.00026
#2	-.02710	-.00079	.00001	.9984	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629262/1-A Acquired: 6/10/2022 1:18:33 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00216**	**-.00019**	**-.00058**	**.9990**
Stddev	.00127	.00009	.00006	.0005
%RSD	58.701	46.385	10.812	.0479
#1	.00306	-.00025	-.00062	.9994
#2	.00126	-.00012	-.00053	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3919.1**	**3490.2**	**71146.**	**5690.0**
Stddev	3.6	.2	170.	29.3
%RSD	.09243	.00540	.23869	.51437
#1	3921.7	3490.0	71266.	5669.3
#2	3916.5	3490.3	71026.	5710.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.280%	98.827%	98.614%	92.855%
Range				

Sample Name: CCV-7024752 Acquired: 6/10/2022 1:22:27 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99506**	**50.156**	**1.0152**	**1.0446**	**1.0207**
Stddev	.00113	.081	.0008	.0019	.0004
%RSD	.11312	.16223	.08261	.18429	.03648
#1	.99426	50.099	1.0146	1.0459	1.0210
#2	.99585	50.214	1.0158	1.0432	1.0205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0120**	**50.643**	**1.0275**	**.9709**	**1.0218**
Stddev	.0001	.009	.0011	.0076	.0018
%RSD	.00780	.01748	.10995	.7852	.17860
#1	1.0119	50.637	1.0283	.9655	1.0230
#2	1.0120	50.650	1.0267	.9763	1.0205
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0101**	**1.0117**	**52.074**	**51.810**	**1.0049**
Stddev	.0042	.0009	.025	.026	.0011
%RSD	.41666	.08710	.04884	.05012	.11340
#1	1.0071	1.0111	52.092	51.791	1.0057
#2	1.0131	1.0123	52.056	51.828	1.0041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 1:22:27 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.717**	**1.0297**	**1.0177**	**51.160**	**1.0216**
Stddev	.122	.0020	.0038	.031	.0003
%RSD	.24124	.19607	.37399	.06098	.02818
#1	50.630	1.0283	1.0204	51.183	1.0218
#2	50.803	1.0311	1.0150	51.138	1.0214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.98**	**1.0288**	**25.604**	**1.0022**	**1.0142**
Stddev	.03	.0009	.028	.0023	.0051
%RSD	.0707	.08397	.10755	.22952	.50681
#1	38.00	1.0294	25.623	1.0038	1.0178
#2	37.96	1.0282	25.584	1.0005	1.0105
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.032**	**1.0299**	**1.0204**	**1.523**	**1.0085**
Stddev	.028	.0028	.0006	.007	.0016
%RSD	.28120	.27105	.05451	.4408	.16090
#1	10.052	1.0318	1.0208	1.518	1.0074
#2	10.012	1.0279	1.0200	1.527	1.0097
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 1:22:27 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0330**	**1.0206**	**1.0666**	**1.512**
Stddev	.0017	.0019	.0023	.002
%RSD	.16414	.18717	.21889	.1124
#1	1.0342	1.0192	1.0649	1.511
#2	1.0318	1.0219	1.0682	1.513
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3432.1**	**3382.3**	**67622.**	**5650.4**
Stddev	.5	1.1	100.	23.9
%RSD	.01423	.03312	.14771	.42228
#1	3432.5	3383.1	67692.	5667.3
#2	3431.8	3381.5	67551.	5633.5

Sample Name: CCB-7026764 Acquired: 6/10/2022 1:26:07 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00086**	**-.00992**	**.00207**	**-.00027**	**.00006**
Stddev	.00008	.00863	.00099	.00001	.00002
%RSD	9.8310	86.958	47.700	2.0295	36.333
#1	-.00080	-.01602	.00277	-.00027	.00007
#2	-.00092	-.00382	.00137	-.00028	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00251**	**.00009**	**-.0286**	**-.00018**
Stddev	.00009	.00067	.00007	.0109	.00000
%RSD	3133.7	26.727	75.731	38.21	1.9907
#1	-.00006	.00204	.00014	-.0363	-.00018
#2	.00007	.00299	.00004	-.0209	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**-.00004**	**.00853**	**.00348**	**-.00004**
Stddev	.00013	.00022	.00134	.01926	.00011
%RSD	180.30	554.13	15.652	553.61	315.64
#1	.00002	.00011	.00759	-.01014	.00004
#2	-.00016	-.00019	.00948	.01710	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 1:26:07 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00237**	**.00010**	**.00233**	**.01731**	**.00005**
Stddev	.00344	.00004	.00045	.00420	.00005
%RSD	144.91	38.249	19.112	24.240	106.07
#1	-.00480	.00008	.00202	.02028	.00001
#2	.00006	.00013	.00265	.01435	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00008**	**-.01874**	**.00169**	**.00316**
Stddev	.00	.00084	.00318	.00038	.00014
%RSD	.0053	1064.4	16.986	22.558	4.3717
#1	25.00	.00068	-.02099	.00196	.00307
#2	25.00	-.00052	-.01649	.00142	.00326
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01715**	**-.00012**	**-.00001**	**.9966**	**.00040**
Stddev	.00576	.00036	.00005	.0032	.00002
%RSD	33.607	296.65	443.37	.3161	4.5024
#1	-.02123	.00013	.00003	.9988	.00039
#2	-.01308	-.00038	-.00005	.9943	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 1:26:07 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00123**	**-.00025**	**-.00014**	**.9996**
Stddev	.00017	.00000	.00005	.0007
%RSD	13.621	1.7816	35.328	.0736
#1	.00111	-.00025	-.00018	.9991
#2	.00135	-.00026	-.00011	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4010.8**	**3550.2**	**72379.**	**5770.4**
Stddev	14.6	6.2	94.	6.6
%RSD	.36287	.17362	.13028	.11413
#1	4000.5	3545.9	72312.	5775.0
#2	4021.1	3554.6	72445.	5765.7

Sample Name: CCVL-7019501 Acquired: 6/10/2022 1:30:01 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00505**	**.18675**	**.01361**	**.01867**	**.00209**
Stddev	.00041	.01444	.00015	.00009	.00003
%RSD	8.1583	7.7341	1.0820	.46203	1.4216
#1	.00476	.19696	.01350	.01873	.00211
#2	.00534	.17654	.01371	.01861	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00202**	**.49950**	**.00189**	**-.0035**	**.00381**
Stddev	.00004	.00055	.00001	.0181	.00008
%RSD	1.8096	.11021	.55262	521.8	2.0698
#1	.00199	.49911	.00190	-.0163	.00387
#2	.00205	.49989	.00188	.0093	.00376
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00335**	**.01045**	**.05097**	**.46284**	**.02761**
Stddev	.00005	.00001	.00222	.03950	.00114
%RSD	1.3522	.04850	4.3562	8.5352	4.1265
#1	.00338	.01045	.04940	.43491	.02841
#2	.00332	.01044	.05254	.49077	.02680
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7019501 Acquired: 6/10/2022 1:30:01 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19195**	**.00307**	**.00955**	**.99071**	**.00953**
Stddev	.00110	.00005	.00007	.00489	.00014
%RSD	.57376	1.7449	.71580	.49350	1.4747
#1	.19273	.00303	.00960	.98726	.00963
#2	.19117	.00311	.00950	.99417	.00943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01005**	**.16646**	**.02021**	**.01904**
Stddev	.00	.00046	.00227	.00017	.00105
%RSD	.0013	4.5970	1.3618	.84304	5.5038
#1	25.00	.00972	.16485	.02009	.01830
#2	25.00	.01038	.16806	.02033	.01978
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45103**	**.00868**	**.00500**	F **.9978**	**.00440**
Stddev	.02096	.00007	.00003	.0044	.00003
%RSD	4.6480	.81882	.69509	.4407	.71686
#1	.46586	.00873	.00502	.9947	.00442
#2	.43621	.00863	.00498	1.001	.00438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7019501 Acquired: 6/10/2022 1:30:01 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02045**	**.00465**	**.00737**	F **.9993**
Stddev	.00083	.00014	.00037	.0008
%RSD	4.0454	3.1077	4.9686	.0839
#1	.02103	.00455	.00763	.9999
#2	.01986	.00475	.00711	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3974.6**	**3545.5**	**72305.**	**5750.2**
Stddev	1.5	4.4	182.	.8
%RSD	.03887	.12443	.25127	.01409
#1	3973.5	3542.4	72433.	5750.8
#2	3975.7	3548.6	72177.	5749.6

Sample Name: LCS 480-629262/2-A Acquired: 6/10/2022 1:33:54 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04827**	**9.9927**	**.20344**	**.20202**	**.21227**
Stddev	.00013	.0690	.00042	.00071	.00054
%RSD	.27583	.69045	.20439	.34965	.25407
#1	.04836	9.9439	.20374	.20152	.21189
#2	.04817	10.041	.20315	.20252	.21266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20790**	**10.131**	**.20032**	**-.0335**	**.20107**
Stddev	.00045	.040	.00009	.0320	.00003
%RSD	.21461	.39108	.04329	95.32	.01391
#1	.20759	10.103	.20026	-.0109	.20109
#2	.20822	10.159	.20038	-.0561	.20105
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20163**	**.20683**	**10.354**	**10.158**	**.19740**
Stddev	.00032	.00054	.009	.001	.00051
%RSD	.15671	.26222	.09093	.00744	.25597
#1	.20141	.20645	10.347	10.158	.19704
#2	.20186	.20721	10.361	10.157	.19776
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629262/2-A Acquired: 6/10/2022 1:33:54 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.393**	**.20767**	**.20602**	**10.012**	**.19706**
Stddev	.023	.00078	.00016	.012	.00056
%RSD	.21795	.37427	.07619	.12443	.28286
#1	10.377	.20712	.20613	10.003	.19746
#2	10.409	.20822	.20591	10.020	.19667
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.20125**	**9.8768**	**.20494**	**.19158**
Stddev	.00	.00143	.0118	.00055	.00379
%RSD	.0021	.71025	.11952	.26840	1.9771
#1	25.00	.20226	9.8685	.20533	.19426
#2	25.00	.20023	9.8852	.20455	.18890
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7692**	F **.24631**	**.20502**	**1.001**	**.20287**
Stddev	.0187	.00045	.00038	.002	.00051
%RSD	.19113	.18265	.18568	.2082	.25199
#1	9.7560	.24663	.20475	1.003	.20251
#2	9.7824	.24599	.20529	.9997	.20323
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: LCS 480-629262/2-A Acquired: 6/10/2022 1:33:54 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20510**	**.20107**	**.20222**	**.9998**
Stddev	.00034	.00007	.00183	.0005
%RSD	.16383	.03508	.90374	.0452
#1	.20533	.20102	.20092	.9995
#2	.20486	.20112	.20351	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3737.6**	**3467.6**	**70143.**	**5783.4**
Stddev	6.3	3.1	115.	11.1
%RSD	.16854	.08868	.16329	.19131
#1	3733.2	3465.4	70224.	5791.2
#2	3742.1	3469.8	70062.	5775.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.730%	98.188%	97.224%	94.378%
Range				

Sample Name: 480-198727-D-1-A Acquired: 6/10/2022 1:37:34 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.04451**	**-.00037**	**.04876**	**.05742**
Stddev	.00020	.03059	.00013	.00008	.00004
%RSD	118.21	68.737	36.313	.15683	.06860
#1	-.00032	-.02288	-.00047	.04870	.05739
#2	-.00003	-.06614	-.00028	.04881	.05745
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**42.802**	**.00019**	**-.0028**	**.00006**
Stddev	.00002	.008	.00016	.0028	.00016
%RSD	84.329	.01756	85.987	99.64	260.65
#1	.00001	42.797	.00030	-.0047	.00017
#2	.00004	42.808	.00007	-.0008	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00065**	**-.00042**	**.00438**	**2.4010**	**.00199**
Stddev	.00064	.00027	.00251	.0151	.00185
%RSD	99.049	63.976	57.304	.63076	93.175
#1	.00019	-.00061	.00616	2.3902	.00068
#2	.00110	-.00023	.00261	2.4117	.00330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198727-D-1-A Acquired: 6/10/2022 1:37:34 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**55.264**	**.00530**	**.00046**	**23.763**	**.00022**
Stddev	.061	.00003	.00028	.031	.00008
%RSD	.10952	.58968	61.156	.12955	38.638
#1	55.221	.00532	.00026	23.785	.00028
#2	55.307	.00528	.00066	23.741	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00064**	**11.833**	**-.00083**	**-.00707**
Stddev	.00	.00112	.006	.00027	.00401
%RSD	.0000	175.29	.05475	32.264	56.703
#1	25.02	-.00015	11.829	-.00064	-.00991
#2	25.02	.00143	11.838	-.00102	-.00424
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.4809**	**-.00104**	**.67752**	**.9954**	**.00029**
Stddev	.0156	.00017	.00126	.0010	.00010
%RSD	.24094	15.978	.18579	.1003	35.645
#1	6.4920	-.00116	.67841	.9961	.00022
#2	6.4699	-.00092	.67663	.9946	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198727-D-1-A Acquired: 6/10/2022 1:37:34 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00115**	**-.00032**	**-.00119**	**.9997**
Stddev	.00025	.00019	.00006	.0002
%RSD	21.419	59.748	4.8615	.0195
#1	.00097	-.00018	-.00123	.9998
#2	.00132	-.00045	-.00115	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3587.7**	**3373.2**	**68678.**	**5669.8**
Stddev	7.5	1.1	8.	6.3
%RSD	.20955	.03123	.01144	.11090
#1	3582.4	3372.5	68672.	5674.2
#2	3593.0	3374.0	68683.	5665.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.969%	95.516%	95.194%	92.524%
Range				

Sample Name: 480-198727-D-2-A Acquired: 6/10/2022 1:41:24 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00127**	**.00497**	**.00259**	**.08718**	**.08234**
Stddev	.00065	.04022	.00101	.00021	.00003
%RSD	51.232	808.93	39.178	.24430	.03433
#1	-.00173	-.02347	.00330	.08733	.08232
#2	-.00081	.03341	.00187	.08703	.08236
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**81.563**	**.00028**	**-.0396**	**.00040**
Stddev	.00005	.037	.00003	.0110	.00021
%RSD	98.005	.04496	11.068	27.86	52.602
#1	.00002	81.589	.00026	-.0318	.00025
#2	.00009	81.537	.00030	-.0473	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**-.00022**	**.09171**	**4.2509**	**.01308**
Stddev	.00027	.00011	.00077	.0051	.00068
%RSD	74.457	48.107	.83867	.11900	5.2177
#1	-.00055	-.00030	.09117	4.2544	.01260
#2	-.00017	-.00015	.09225	4.2473	.01357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198727-D-2-A Acquired: 6/10/2022 1:41:24 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**69.807**	**.15460**	**.00163**	**36.203**	**.00128**
Stddev	.265	.00001	.00017	.104	.00018
%RSD	.37933	.00459	10.638	.28765	14.103
#1	69.620	.15460	.00151	36.277	.00115
#2	69.994	.15461	.00176	36.129	.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00208**	**21.698**	**-.00269**	**-.00758**
Stddev	.00	.00078	.004	.00221	.00400
%RSD	.0028	37.716	.01708	82.096	52.784
#1	25.01	.00153	21.695	-.00426	-.00475
#2	25.01	.00263	21.700	-.00113	-.01042
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.6601**	**-.00037**	**.90457**	**.9993**	**-.00000**
Stddev	.0120	.00132	.00002	.0010	.00054
%RSD	.13804	359.47	.00269	.0981	15588.
#1	8.6517	.00056	.90455	1.0000	.00038
#2	8.6686	-.00130	.90459	.9986	-.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198727-D-2-A Acquired: 6/10/2022 1:41:24 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00031**	**-.00062**	**-.00088**	**.9993**
Stddev	.00008	.00037	.00015	.0006
%RSD	26.930	60.025	17.502	.0550
#1	.00025	-.00089	-.00099	.9989
#2	.00036	-.00036	-.00077	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3496.5**	**3328.1**	**67720.**	**5676.3**
Stddev	3.9	.5	102.	.2
%RSD	.11195	.01591	.15019	.00365
#1	3493.8	3327.7	67792.	5676.4
#2	3499.3	3328.5	67648.	5676.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.683%	94.238%	93.866%	92.631%
Range				

Sample Name: 480-198727-D-3-A Acquired: 6/10/2022 1:45:14 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.02992**	**.00062**	**.08071**	**.12242**
Stddev	.00010	.01552	.00124	.00007	.00014
%RSD	28.070	51.886	198.57	.08695	.11681
#1	-.00044	.04089	.00150	.08076	.12252
#2	-.00030	.01894	-.00025	.08066	.12232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**101.28**	**.00014**	**-.0313**	**-.00022**
Stddev	.00001	.29	.00011	.0138	.00002
%RSD	301.01	.28745	77.011	44.22	8.6515
#1	-.00000	101.08	.00006	-.0215	-.00023
#2	.00001	101.49	.00022	-.0411	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**-.00003**	**.06811**	**3.9232**	**.01978**
Stddev	.00008	.00008	.00228	.0136	.00000
%RSD	35.276	288.68	3.3420	.34716	.00920
#1	.00029	-.00009	.06972	3.9136	.01978
#2	.00017	.00003	.06650	3.9328	.01978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198727-D-3-A Acquired: 6/10/2022 1:45:14 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**87.627**	**.00327**	**.00040**	**33.471**	**.00041**
Stddev	.084	.00007	.00006	.045	.00018
%RSD	.09605	2.1589	13.806	.13483	43.428
#1	87.687	.00332	.00036	33.439	.00053
#2	87.568	.00322	.00044	33.502	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00158**	**32.244**	**-.00318**	**-.00905**
Stddev	.00	.00111	.050	.00025	.00085
%RSD	.0000	70.044	.15413	7.7505	9.3881
#1	25.01	.00237	32.280	-.00336	-.00845
#2	25.01	.00080	32.209	-.00301	-.00965
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4080**	**-.00009**	**1.1375**	**.9982**	**.00151**
Stddev	.0451	.00021	.0006	.0017	.00003
%RSD	.47917	230.12	.05538	.1668	2.2664
#1	9.3761	.00006	1.1371	.9971	.00149
#2	9.4398	-.00024	1.1379	.9994	.00153
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198727-D-3-A Acquired: 6/10/2022 1:45:14 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00260**	**-.00009**	**.00005**	**.9982**
Stddev	.00042	.00022	.00033	.0003
%RSD	16.225	249.46	618.84	.0267
#1	.00230	-.00025	-.00018	.9980
#2	.00289	.00007	.00029	.9984
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3485.1**	**3329.9**	**67973.**	**5707.0**
Stddev	.4	3.9	82.	26.8
%RSD	.01170	.11780	.12109	.46874
#1	3485.4	3327.1	67915.	5725.9
#2	3484.8	3332.6	68031.	5688.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.397%	94.287%	94.217%	93.132%
Range				

Sample Name: 480-198727-D-3-Asd@5 Acquired: 6/10/2022 1:49:04 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**-.00957**	**.00160**	**.01545**	**.02500**
Stddev	.00010	.00232	.00033	.00007	.00004
%RSD	35.330	24.220	20.457	.44918	.16997
#1	-.00037	-.00793	.00136	.01540	.02503
#2	-.00022	-.01121	.00183	.01550	.02497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**20.878**	**-.00005**	**-.0226**	**-.00007**
Stddev	.00007	.082	.00003	.0089	.00007
%RSD	120.69	.39054	62.146	39.09	101.94
#1	.00010	20.935	-.00003	-.0164	-.00011
#2	.00001	20.820	-.00007	-.0289	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.00034**	**.00994**	**.82221**	**.00339**
Stddev	.00021	.00023	.00207	.02319	.00054
%RSD	61.025	66.881	20.827	2.8211	16.049
#1	-.00019	.00018	.01140	.80580	.00378
#2	-.00048	.00050	.00847	.83861	.00301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198727-D-3-Asd@5 Acquired: 6/10/2022 1:49:04 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.524**	**.00062**	**-.00122**	**6.6445**	**.00022**
Stddev	.013	.00000	.00004	.0058	.00015
%RSD	.07171	.17681	3.3310	.08723	68.461
#1	17.515	.00062	-.00119	6.6404	.00032
#2	17.533	.00062	-.00125	6.6486	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00029**	**6.2771**	**-.00069**	**-.01039**
Stddev	.00	.00007	.0048	.00200	.00310
%RSD	.0010	24.246	.07603	289.45	29.800
#1	25.00	-.00024	6.2737	.00072	-.01258
#2	25.00	-.00033	6.2804	-.00210	-.00820
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8988**	**-.00062**	**.22984**	**.9962**	**.00024**
Stddev	.0156	.00010	.00093	.0046	.00015
%RSD	.82098	16.408	.40533	.4576	61.642
#1	1.9098	-.00055	.23050	.9994	.00034
#2	1.8878	-.00069	.22918	.9930	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198727-D-3-Asd@5 Acquired: 6/10/2022 1:49:04 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00035**	**-.00040**	**-.00148**	**.9988**
Stddev	.00029	.00000	.00061	.0001
%RSD	82.413	.41762	41.107	.0067
#1	.00056	-.00039	-.00191	.9988
#2	.00015	-.00040	-.00105	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3777.5**	**3453.3**	**70012.**	**5696.3**
Stddev	.9	1.4	68.	17.1
%RSD	.02389	.03940	.09782	.30054
#1	3776.9	3454.3	70061.	5684.2
#2	3778.2	3452.4	69964.	5708.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.730%	97.784%	97.043%	92.957%
Range				

Sample Name: 480-198727-D-3-APDS Acquired: 6/10/2022 1:52:55 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05145**	**10.461**	**.21797**	**.29431**	**.33536**
Stddev	.00040	.054	.00094	.00046	.00077
%RSD	.78632	.51628	.43139	.15519	.23100
#1	.05174	10.423	.21731	.29399	.33481
#2	.05117	10.499	.21864	.29464	.33591
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21691**	**110.33**	**.21206**	**-.0252**	**.21067**
Stddev	.00046	.24	.00005	.0213	.00051
%RSD	.21185	.22202	.02498	84.83	.24328
#1	.21659	110.16	.21209	-.0101	.21103
#2	.21724	110.51	.21202	-.0403	.21030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21159**	**.21748**	**10.543**	**14.564**	**.22776**
Stddev	.00008	.00034	.039	.032	.00101
%RSD	.03893	.15514	.37242	.21897	.44266
#1	.21153	.21724	10.516	14.586	.22704
#2	.21165	.21772	10.571	14.541	.22847
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198727-D-3-APDS Acquired: 6/10/2022 1:52:55 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**98.323**	**.22058**	**.21703**	**43.139**	**.20788**
Stddev	.121	.00046	.00137	.005	.00022
%RSD	.12320	.20893	.63296	.01239	.10683
#1	98.238	.22025	.21800	43.143	.20803
#2	98.409	.22090	.21606	43.135	.20772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.21448**	**42.588**	**.22243**	**.20427**
Stddev	.00	.00112	.046	.00019	.00242
%RSD	.0050	.52348	.10763	.08523	1.1865
#1	25.01	.21369	42.555	.22257	.20598
#2	25.01	.21528	42.620	.22230	.20256
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.519**	**.21315**	**1.3394**	**.9965**	**.21455**
Stddev	.022	.00017	.0009	.0045	.00014
%RSD	.11416	.08165	.06702	.4545	.06630
#1	19.503	.21303	1.3400	.9997	.21465
#2	19.535	.21327	1.3387	.9933	.21445
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198727-D-3-APDS Acquired: 6/10/2022 1:52:55 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21688**	**.21039**	**.20764**	**.9997**
Stddev	.00351	.00043	.00057	.0003
%RSD	1.6185	.20576	.27517	.0311
#1	.21440	.21008	.20805	.9994
#2	.21937	.21070	.20724	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3341.5**	**3254.0**	**66128.**	**5608.6**
Stddev	1.1	.6	138.	21.0
%RSD	.03429	.01795	.20798	.37364
#1	3340.7	3253.5	66225.	5623.4
#2	3342.3	3254.4	66030.	5593.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.796%	92.138%	91.659%	91.527%
Range				

Sample Name: 480-198727-D-3-B MS Acquired: 6/10/2022 1:56:41 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04885**	**10.061**	**.20670**	**.28566**	**.33375**
Stddev	.00113	.038	.00188	.00020	.00074
%RSD	2.3122	.38214	.90980	.06902	.22117
#1	.04965	10.088	.20803	.28580	.33428
#2	.04806	10.034	.20537	.28552	.33323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20667**	**113.57**	**.20216**	**-.0288**	**.20120**
Stddev	.00018	.18	.00020	.0068	.00032
%RSD	.08620	.15833	.10081	23.71	.16047
#1	.20654	113.44	.20231	-.0336	.20098
#2	.20679	113.70	.20202	-.0240	.20143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19867**	**.20439**	**10.161**	**14.449**	**.22032**
Stddev	.00069	.00034	.008	.033	.00021
%RSD	.34481	.16647	.07931	.22714	.09323
#1	.19819	.20463	10.155	14.426	.22047
#2	.19916	.20415	10.166	14.472	.22018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198727-D-3-B MS Acquired: 6/10/2022 1:56:41 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**100.66**	**.20482**	**.20684**	**44.177**	**.19758**
Stddev	.00	.00007	.00053	.069	.00058
%RSD	.00357	.03193	.25660	.15583	.29559
#1	100.66	.20487	.20722	44.129	.19717
#2	100.65	.20478	.20647	44.226	.19800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.20465**	**43.271**	**.20833**	**.19350**
Stddev	.00	.00129	.047	.00295	.00257
%RSD	.0009	.63067	.10970	1.4172	1.3289
#1	25.01	.20556	43.305	.20625	.19168
#2	25.01	.20373	43.237	.21042	.19532
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.481**	**.25100**	**1.3722**	**1.006**	**.20643**
Stddev	.058	.00005	.0000	.006	.00105
%RSD	.29943	.01940	.00096	.5890	.50953
#1	19.440	.25097	1.3722	1.002	.20569
#2	19.522	.25104	1.3722	1.010	.20718
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198727-D-3-B MS Acquired: 6/10/2022 1:56:41 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20594**	**.20047**	**.19866**	**.9996**
Stddev	.00008	.00049	.00069	.0004
%RSD	.03643	.24546	.34756	.0434
#1	.20589	.20012	.19817	.9993
#2	.20599	.20082	.19915	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3386.2**	**3293.4**	**66800.**	**5655.6**
Stddev	.5	3.7	120.	30.5
%RSD	.01473	.11271	.17948	.53927
#1	3385.9	3290.7	66885.	5677.1
#2	3386.6	3296.0	66715.	5634.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.917%	93.254%	92.591%	92.293%
Range				

Sample Name: 480-198727-D-3-C MSD Acquired: 6/10/2022 2:00:28 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04896**	**10.102**	**.20794**	**.28514**	**.33027**
Stddev	.00137	.068	.00452	.00021	.00014
%RSD	2.7893	.67077	2.1733	.07530	.04234
#1	.04992	10.054	.21114	.28499	.33037
#2	.04799	10.150	.20475	.28530	.33017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20589**	**112.49**	**.20122**	**-.0470**	**.20009**
Stddev	.00005	.01	.00045	.0159	.00069
%RSD	.02485	.00793	.22118	33.85	.34341
#1	.20593	112.50	.20154	-.0357	.20057
#2	.20586	112.49	.20091	-.0582	.19960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19675**	**.20297**	**10.133**	**14.425**	**.22132**
Stddev	.00014	.00135	.030	.042	.00043
%RSD	.07358	.66405	.29128	.29071	.19601
#1	.19685	.20392	10.112	14.396	.22101
#2	.19665	.20202	10.154	14.455	.22163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198727-D-3-C MSD Acquired: 6/10/2022 2:00:28 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**99.303**	**.20341**	**.20622**	**43.849**	**.19626**
Stddev	.140	.00025	.00092	.017	.00031
%RSD	.14099	.12130	.44601	.03935	.15803
#1	99.402	.20358	.20687	43.836	.19648
#2	99.204	.20323	.20557	43.861	.19604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.20395**	**42.870**	**.20657**	**.19591**
Stddev	.00	.00096	.040	.00569	.00069
%RSD	.0027	.47094	.09226	2.7555	.35218
#1	25.01	.20463	42.898	.20255	.19640
#2	25.01	.20327	42.842	.21060	.19542
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.261**	**.25179**	**1.3602**	**1.001**	**.20490**
Stddev	.007	.00063	.0014	.001	.00019
%RSD	.03560	.24842	.10179	.1423	.09179
#1	19.256	.25135	1.3592	.9998	.20477
#2	19.266	.25223	1.3611	1.002	.20503
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198727-D-3-C MSD Acquired: 6/10/2022 2:00:28 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20491**	**.19944**	**.19785**	**.9996**
Stddev	.00089	.00044	.00244	.0006
%RSD	.43259	.21827	1.2315	.0631
#1	.20554	.19974	.19957	1.000
#2	.20429	.19913	.19612	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3381.7**	**3287.2**	**66888.**	**5627.3**
Stddev	3.0	6.0	35.	4.7
%RSD	.08944	.18257	.05243	.08440
#1	3379.6	3283.0	66863.	5623.9
#2	3383.8	3291.5	66913.	5630.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.804%	93.081%	92.713%	91.831%
Range				

Sample Name: 480-198727-D-4-A Acquired: 6/10/2022 2:04:15 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00107**	**-.02568**	**.00058**	**.00982**	**.13419**
Stddev	.00005	.00602	.00213	.00067	.00010
%RSD	4.7626	23.438	364.40	6.8236	.07547
#1	-.00103	-.02994	.00209	.01030	.13412
#2	-.00110	-.02142	-.00092	.00935	.13426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**83.680**	**-.00000**	**-.0304**	**-.00002**
Stddev	.00001	.114	.00010	.0112	.00019
%RSD	17.833	.13625	11617.	36.89	1003.1
#1	.00004	83.600	-.00007	-.0225	.00012
#2	.00005	83.761	.00007	-.0383	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00321**	**.00614**	**.83501**	**.00910**
Stddev	.00006	.00016	.00016	.03331	.00093
%RSD	510.06	5.0315	2.6198	3.9887	10.273
#1	.00003	.00310	.00602	.81146	.00976
#2	-.00005	.00332	.00625	.85856	.00844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198727-D-4-A Acquired: 6/10/2022 2:04:15 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.344**	**.05545**	**.00018**	**8.5718**	**.00002**
Stddev	.015	.00005	.00000	.0153	.00004
%RSD	.05183	.09268	2.2783	.17870	191.54
#1	29.333	.05541	.00018	8.5610	-.00001
#2	29.355	.05548	.00018	8.5827	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00164**	**11.368**	**-.00250**	**-.00769**
Stddev	.00	.00017	.006	.00113	.00262
%RSD	.0029	10.145	.05713	45.012	34.052
#1	25.00	.00152	11.372	-.00330	-.00954
#2	25.00	.00175	11.363	-.00171	-.00584
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.9995**	**-.00062**	**.79266**	**.9984**	**.00007**
Stddev	.0154	.00044	.00161	.0120	.00008
%RSD	.25654	70.684	.20292	1.198	107.34
#1	5.9886	-.00092	.79152	1.007	.00012
#2	6.0104	-.00031	.79380	.9900	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198727-D-4-A Acquired: 6/10/2022 2:04:15 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00338**	**-.00040**	**.00207**	**.9996**
Stddev	.00043	.00004	.00131	.0006
%RSD	12.800	10.763	63.467	.0601
#1	.00308	-.00043	.00114	1.000
#2	.00369	-.00037	.00300	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3632.5**	**3388.5**	**68954.**	**5738.6**
Stddev	3.6	5.3	39.	6.5
%RSD	.09911	.15556	.05649	.11267
#1	3629.9	3384.8	68926.	5743.2
#2	3635.0	3392.2	68982.	5734.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.092%	95.947%	95.577%	93.648%
Range				

Sample Name: CCV-7024752 Acquired: 6/10/2022 2:08:05 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0245**	**51.861**	**1.0412**	**1.0611**	**1.0355**
Stddev	.0032	.033	.0009	.0004	.0004
%RSD	.31430	.06409	.08592	.03733	.03906
#1	1.0223	51.838	1.0406	1.0608	1.0352
#2	1.0268	51.885	1.0419	1.0614	1.0358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0347**	**52.269**	**1.0465**	**1.027**	**1.0385**
Stddev	.0017	.098	.0007	.026	.0020
%RSD	.16109	.18674	.06379	2.527	.18855
#1	1.0335	52.200	1.0461	1.045	1.0371
#2	1.0359	52.338	1.0470	1.009	1.0399
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0428**	**1.0393**	**53.356**	**53.018**	**1.0342**
Stddev	.0016	.0039	.081	.001	.0034
%RSD	.15049	.37089	.15243	.00100	.32641
#1	1.0417	1.0366	53.413	53.019	1.0366
#2	1.0439	1.0421	53.298	53.018	1.0318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 2:08:05 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.394**	**1.0552**	**1.0428**	**52.322**	**1.0458**
Stddev	.147	.0020	.0030	.003	.0010
%RSD	.28071	.18790	.28397	.00556	.09442
#1	52.290	1.0538	1.0449	52.324	1.0451
#2	52.498	1.0566	1.0407	52.320	1.0465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.21**	**1.0488**	**26.189**	**1.0338**	**1.0441**
Stddev	.01	.0034	.021	.0028	.0085
%RSD	.0166	.31949	.07834	.26952	.81654
#1	38.22	1.0464	26.204	1.0358	1.0501
#2	38.21	1.0511	26.175	1.0319	1.0380
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.455**	**1.0466**	**1.0410**	**1.526**	**1.0391**
Stddev	.023	.0031	.0000	.002	.0026
%RSD	.21627	.29603	.00234	.0961	.25419
#1	10.439	1.0444	1.0410	1.525	1.0373
#2	10.471	1.0488	1.0411	1.527	1.0410
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 2:08:05 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0548**	**1.0464**	**1.0817**	**1.524**
Stddev	.0007	.0024	.0030	.003
%RSD	.06796	.23096	.27918	.2153
#1	1.0543	1.0447	1.0796	1.522
#2	1.0553	1.0481	1.0838	1.526
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3372.8**	**3313.9**	**66358.**	**5537.0**
Stddev	5.0	.9	76.	12.2
%RSD	.14739	.02683	.11429	.22037
#1	3376.3	3314.5	66411.	5545.6
#2	3369.3	3313.2	66304.	5528.4

Sample Name: CCB-7026764 Acquired: 6/10/2022 2:11:45 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**-.00109**	**.00097**	**.00054**	**.00006**
Stddev	.00022	.00758	.00054	.00009	.00000
%RSD	85.063	694.79	55.164	17.377	5.9745
#1	-.00010	-.00645	.00059	.00047	.00006
#2	-.00042	.00427	.00135	.00061	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00282**	**.00007**	**-.0075**	**.00000**
Stddev	.00009	.00181	.00003	.0014	.00029
%RSD	110.18	64.370	44.038	19.40	8072.9
#1	.00002	.00410	.00009	-.0085	.00021
#2	.00014	.00153	.00005	-.0064	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00017**	**.00746**	**.03411**	**-.00054**
Stddev	.00008	.00007	.00029	.01245	.00085
%RSD	27.795	42.111	3.9460	36.504	157.62
#1	-.00034	.00012	.00725	.04291	-.00114
#2	-.00023	.00022	.00767	.02530	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 2:11:45 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00103**	**.00009**	**.00225**	**.01477**	**.00006**
Stddev	.00085	.00003	.00029	.00342	.00001
%RSD	82.562	32.526	12.812	23.181	19.454
#1	-.00043	.00007	.00205	.01235	.00007
#2	-.00164	.00011	.00246	.01719	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00043**	**-.01426**	**.00080**	**.00230**
Stddev	.00	.00067	.00077	.00282	.00350
%RSD	.0051	155.31	5.4116	351.36	152.35
#1	25.00	-.00004	-.01371	.00279	-.00018
#2	25.00	.00091	-.01480	-.00119	.00477
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02371**	**-.00045**	**.00003**	**.9996**	**.00018**
Stddev	.00468	.00013	.00008	.0009	.00000
%RSD	19.745	28.571	257.21	.0897	2.6023
#1	-.02702	-.00054	-.00003	1.000	.00018
#2	-.02040	-.00036	.00009	.9990	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 2:11:45 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00173**	**-.00007**	**-.00003**	**.9990**
Stddev	.00230	.00012	.00082	.0002
%RSD	132.65	160.60	2565.9	.0211
#1	.00336	-.00016	.00055	.9989
#2	.00011	.00001	-.00061	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4023.3**	**3556.0**	**72478.**	**5744.7**
Stddev	4.3	1.6	134.	14.9
%RSD	.10568	.04479	.18428	.25933
#1	4020.3	3554.9	72383.	5734.1
#2	4026.3	3557.1	72572.	5755.2

Sample Name: CCVL-7019501 Acquired: 6/10/2022 2:15:39 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00485**	**.17265**	**.01179**	**.01879**	**.00207**
Stddev	.00047	.00203	.00119	.00009	.00003
%RSD	9.6769	1.1781	10.075	.46182	1.4212
#1	.00519	.17121	.01095	.01885	.00205
#2	.00452	.17408	.01263	.01873	.00210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00199**	**.49794**	**.00210**	**-.0223**	**.00389**
Stddev	.00002	.00437	.00001	.0032	.00001
%RSD	.99341	.87742	.63585	14.36	.35485
#1	.00201	.50103	.00209	-.0201	.00390
#2	.00198	.49485	.00211	-.0246	.00388
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00366**	**.01041**	**.04982**	**.50341**	**.02671**
Stddev	.00002	.00049	.00033	.01095	.00014
%RSD	.61033	4.6885	.66339	2.1744	.52397
#1	.00368	.01006	.04958	.49567	.02661
#2	.00364	.01075	.05005	.51115	.02680
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7019501 Acquired: 6/10/2022 2:15:39 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19218**	**.00289**	**.00949**	**.97682**	**.00943**
Stddev	.00192	.00002	.00013	.00271	.00008
%RSD	.99960	.65717	1.3500	.27738	.84483
#1	.19354	.00290	.00940	.97874	.00949
#2	.19082	.00288	.00958	.97490	.00937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00954**	**.16748**	**.01859**	**.01924**
Stddev	.00	.00081	.00204	.00089	.00070
%RSD	.0026	8.5409	1.2183	4.7960	3.6356
#1	25.00	.01012	.16892	.01922	.01973
#2	25.00	.00897	.16604	.01796	.01874
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44864**	**.00808**	**.00499**	F **.9963**	**.00418**
Stddev	.01553	.00021	.00003	.0009	.00035
%RSD	3.4621	2.6308	.62871	.0922	8.4555
#1	.43765	.00823	.00501	.9956	.00443
#2	.45962	.00793	.00497	.9969	.00393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7019501 Acquired: 6/10/2022 2:15:39 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02067**	**.00456**	**.00701**	F **1.000**
Stddev	.00065	.00012	.00056	.000
%RSD	3.1542	2.5523	7.9704	.0417
#1	.02021	.00447	.00661	.9999
#2	.02114	.00464	.00740	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4003.5**	**3563.5**	**72455.**	**5760.1**
Stddev	2.8	4.4	92.	18.6
%RSD	.07108	.12218	.12763	.32353
#1	4001.5	3560.4	72390.	5773.2
#2	4005.5	3566.5	72521.	5746.9

Sample Name: 480-198727-D-5-A Acquired: 6/10/2022 2:19:31 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**-.00345**	**-.00033**	**.00698**	**.01796**
Stddev	.00004	.01540	.00012	.00018	.00005
%RSD	4.8122	446.27	36.629	2.5674	.29092
#1	-.00080	-.01434	-.00025	.00711	.01800
#2	-.00075	.00744	-.00042	.00686	.01792
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**67.936**	**.00014**	**-.0273**	**-.00002**
Stddev	.00000	.255	.00001	.0246	.00013
%RSD	2.0662	.37569	3.7908	90.12	562.24
#1	-.00005	67.756	.00015	-.0446	-.00012
#2	-.00005	68.117	.00014	-.0099	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**-.00030**	**.08387**	**.29224**	**.01185**
Stddev	.00016	.00010	.00283	.00859	.00089
%RSD	48.628	34.752	3.3792	2.9407	7.5501
#1	-.00022	-.00037	.08187	.29832	.01121
#2	-.00045	-.00022	.08587	.28616	.01248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198727-D-5-A Acquired: 6/10/2022 2:19:31 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.767**	**.03534**	**.00104**	**10.305**	**.00017**
Stddev	.037	.00008	.00016	.027	.00007
%RSD	.14531	.21878	14.987	.26198	42.184
#1	25.740	.03528	.00093	10.286	.00022
#2	25.793	.03539	.00115	10.324	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00086**	**7.8127**	**-.00187**	**-.00984**
Stddev	.00	.00074	.0207	.00118	.00173
%RSD	.0016	85.888	.26477	62.709	17.613
#1	25.00	.00034	7.7980	-.00270	-.00862
#2	25.00	.00139	7.8273	-.00104	-.01107
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.4910**	**-.00087**	**.39292**	**.9970**	**.00016**
Stddev	.0630	.00000	.00187	.0008	.00015
%RSD	.97042	.04255	.47481	.0818	89.576
#1	6.4465	-.00087	.39160	.9976	.00006
#2	6.5355	-.00087	.39424	.9965	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198727-D-5-A Acquired: 6/10/2022 2:19:31 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00322**	**-.00044**	**-.00036**	**.9987**
Stddev	.00028	.00002	.00063	.0002
%RSD	8.7961	4.4241	176.01	.0232
#1	.00342	-.00046	.00009	.9988
#2	.00302	-.00043	-.00081	.9985
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3664.2**	**3407.8**	**69379.**	**5747.8**
Stddev	2.8	3.9	11.	24.1
%RSD	.07693	.11511	.01515	.41920
#1	3666.2	3410.6	69372.	5764.9
#2	3662.2	3405.0	69387.	5730.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.888%	96.494%	96.166%	93.798%
Range				

Sample Name: 480-198727-D-6-A Acquired: 6/10/2022 2:23:22 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.02058**	**.00112**	**.02233**	**.07368**
Stddev	.00054	.00338	.00273	.00047	.00008
%RSD	370.31	16.407	244.89	2.1045	.10812
#1	.00024	-.02296	.00305	.02200	.07374
#2	-.00053	-.01819	-.00082	.02266	.07362
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**97.153**	**.00009**	**.0081**	**-.00043**
Stddev	.00004	.146	.00018	.0163	.00024
%RSD	84.935	.14998	196.40	201.0	54.960
#1	.00002	97.050	.00022	.0196	-.00027
#2	.00008	97.256	-.00004	-.0034	-.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**-.00071**	**.00034**	**2.1070**	**.00404**
Stddev	.00023	.00079	.00156	.0057	.00040
%RSD	64.707	110.80	454.87	.27210	9.9688
#1	.00052	-.00015	-.00076	2.1030	.00375
#2	.00019	-.00127	.00144	2.1111	.00432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198727-D-6-A Acquired: 6/10/2022 2:23:22 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.748**	**.00069**	**.00029**	**15.984**	**.00015**
Stddev	.033	.00000	.00009	.007	.00013
%RSD	.06871	.38747	29.835	.04229	88.223
#1	48.772	.00070	.00035	15.979	.00006
#2	48.724	.00069	.00023	15.988	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00208**	**13.646**	**.00016**	**-.00627**
Stddev	.00	.00109	.027	.00076	.00126
%RSD	.0007	52.461	.19465	486.20	20.046
#1	25.04	.00285	13.628	-.00038	-.00538
#2	25.04	.00131	13.665	.00070	-.00716
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.8643**	**-.00019**	**.78430**	**.9933**	**.00020**
Stddev	.0214	.00031	.00035	.0029	.00014
%RSD	.36458	161.12	.04495	.2946	70.059
#1	5.8492	-.00042	.78455	.9953	.00010
#2	5.8794	.00003	.78405	.9912	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198727-D-6-A Acquired: 6/10/2022 2:23:22 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00282**	**-.00039**	**-.00066**	**1.0000**
Stddev	.00046	.00010	.00058	.0007
%RSD	16.233	26.700	88.016	.0742
#1	.00250	-.00047	-.00107	.9994
#2	.00314	-.00032	-.00025	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3567.7**	**3362.1**	**68560.**	**5726.7**
Stddev	1.5	3.9	26.	49.9
%RSD	.04107	.11624	.03850	.87051
#1	3566.7	3364.8	68542.	5761.9
#2	3568.7	3359.3	68579.	5691.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.467%	95.199%	95.031%	93.453%
Range				

Sample Name: 480-198760-A-15-A Acquired: 6/10/2022 2:27:12 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**5.9196**	**.00347**	**.12531**	**.16180**
Stddev	.00029	.0129	.00425	.00007	.00014
%RSD	37.048	.21788	122.52	.05495	.08850
#1	-.00057	5.9105	.00648	.12526	.16190
#2	-.00097	5.9288	.00046	.12536	.16169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**75.978**	**.00024**	**-.0003**	**.00388**
Stddev	.00008	.023	.00009	.0035	.00000
%RSD	20.250	.02993	36.836	1071.	.06703
#1	.00034	75.994	.00017	.0021	.00388
#2	.00045	75.962	.00030	-.0028	.00388
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00667**	**.01411**	**7.3971**	**3.4483**	**.01869**
Stddev	.00007	.00008	.0046	.0347	.00155
%RSD	1.0456	.59960	.06153	1.0069	8.2687
#1	.00672	.01405	7.4003	3.4729	.01978
#2	.00662	.01417	7.3939	3.4238	.01760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-15-A Acquired: 6/10/2022 2:27:12 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.459**	**.62176**	**.00009**	**23.556**	**.00843**
Stddev	.034	.00045	.00010	.013	.00032
%RSD	.16415	.07262	113.65	.05441	3.7468
#1	20.483	.62208	.00002	23.547	.00820
#2	20.435	.62144	.00017	23.565	.00865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.14**	**.01135**	**8.2237**	**-.00139**	**-.00878**
Stddev	.00	.00008	.0057	.00154	.00154
%RSD	.0044	.69578	.06914	110.70	17.571
#1	25.14	.01141	8.2277	-.00248	-.00987
#2	25.14	.01129	8.2197	-.00030	-.00769
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.689**	**-.00093**	**.45151**	**1.0000**	**.09718**
Stddev	.059	.00032	.00017	.0001	.00231
%RSD	.37821	33.993	.03828	.0067	2.3773
#1	15.731	-.00070	.45139	.9999	.09881
#2	15.647	-.00115	.45163	1.000	.09555
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-15-A Acquired: 6/10/2022 2:27:12 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00125**	**.00982**	**.02628**	**1.001**
Stddev	.00262	.00022	.00009	.001
%RSD	210.20	2.2761	.35746	.0742
#1	.00310	.00966	.02635	1.001
#2	-.00061	.00998	.02621	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3609.7**	**3433.9**	**69321.**	**5830.2**
Stddev	.5	1.7	98.	2.0
%RSD	.01459	.05016	.14173	.03516
#1	3609.3	3432.6	69251.	5828.7
#2	3610.1	3435.1	69390.	5831.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.521%	97.232%	96.085%	95.142%
Range				

Sample Name: 480-198723-D-1-A Acquired: 6/10/2022 2:31:00 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**-.03220**	**-.00113**	**.02898**	**.07360**
Stddev	.00024	.01699	.00237	.00017	.00011
%RSD	47.032	52.763	209.84	.58273	.14269
#1	-.00034	-.02019	.00055	.02886	.07352
#2	-.00067	-.04422	-.00280	.02910	.07367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**111.45**	**-.00001**	**-.0120**	**-.00028**
Stddev	.00003	.42	.00013	.0243	.00005
%RSD	44.548	.37307	1152.3	201.4	19.619
#1	.00008	111.74	.00008	-.0292	-.00024
#2	.00004	111.15	-.00011	.0051	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**-.00084**	**.00298**	**1.7313**	**.02743**
Stddev	.00016	.00033	.00246	.0176	.00083
%RSD	57.316	39.669	82.489	1.0136	3.0424
#1	.00038	-.00060	.00471	1.7437	.02802
#2	.00016	-.00107	.00124	1.7188	.02684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198723-D-1-A Acquired: 6/10/2022 2:31:00 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**77.825**	**-.00005**	**.00738**	**24.094**	**.00281**
Stddev	.034	.00003	.00007	.085	.00025
%RSD	.04424	52.917	.99540	.35284	9.0447
#1	77.801	-.00007	.00743	24.155	.00299
#2	77.850	-.00003	.00732	24.034	.00263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00173**	**47.730**	**-.00232**	**-.00897**
Stddev	.00	.00071	.076	.00043	.00147
%RSD	.0050	40.912	.15875	18.390	16.426
#1	25.01	.00123	47.676	-.00262	-.00793
#2	25.00	.00223	47.783	-.00202	-.01001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.054**	**-.00103**	**1.0254**	**.9928**	**.00017**
Stddev	.065	.00057	.0043	.0018	.00048
%RSD	.64651	55.599	.41512	.1862	285.32
#1	10.100	-.00063	1.0285	.9941	-.00017
#2	10.008	-.00144	1.0224	.9915	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198723-D-1-A Acquired: 6/10/2022 2:31:00 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00114**	**-.00016**	**-.00012**	**1.000**
Stddev	.00032	.00020	.00039	.000
%RSD	28.255	119.87	318.07	.0347
#1	.00092	-.00002	-.00040	.9998
#2	.00137	-.00030	.00015	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3511.3**	**3321.3**	**67605.**	**5692.6**
Stddev	2.8	1.7	57.	12.8
%RSD	.08085	.05171	.08377	.22509
#1	3509.3	3322.5	67645.	5683.6
#2	3513.4	3320.0	67565.	5701.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.055%	94.044%	93.707%	92.897%
Range				

Sample Name: 480-198719-E-1-A Acquired: 6/10/2022 2:34:51 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**2.5745**	**-.00114**	**.02404**	**.07772**
Stddev	.00021	.0143	.00159	.00013	.00009
%RSD	40.128	.55491	139.70	.53148	.12099
#1	-.00037	2.5846	-.00227	.02395	.07765
#2	-.00066	2.5644	-.00001	.02414	.07778
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**76.650**	**.00005**	**-.0178**	**-.00015**
Stddev	.00006	.059	.00007	.0100	.00017
%RSD	66.682	.07750	126.83	56.36	116.57
#1	.00004	76.692	.00010	-.0107	-.00003
#2	.00012	76.608	.00001	-.0249	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00297**	**.00131**	**.77434**	**1.5347**	**.02205**
Stddev	.00053	.00033	.00248	.0069	.00073
%RSD	17.782	24.922	.32091	.45069	3.3294
#1	.00260	.00154	.77258	1.5298	.02153
#2	.00334	.00108	.77610	1.5396	.02257
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198719-E-1-A Acquired: 6/10/2022 2:34:51 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**65.179**	**.01135**	**.00235**	**29.715**	**.00149**
Stddev	.118	.00007	.00014	.034	.00020
%RSD	.18064	.60140	5.8875	.11358	13.508
#1	65.095	.01140	.00226	29.739	.00163
#2	65.262	.01131	.00245	29.692	.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00297**	**11.638**	**-.00256**	**-.01099**
Stddev	.00	.00080	.001	.00061	.00301
%RSD	.0021	26.956	.00800	23.733	27.440
#1	25.01	.00240	11.637	-.00298	-.01312
#2	25.01	.00354	11.638	-.00213	-.00885
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.125**	**-.00018**	**.91601**	**1.003**	**.07246**
Stddev	.036	.00068	.00032	.005	.00187
%RSD	.29544	382.89	.03526	.5527	2.5873
#1	12.100	.00030	.91624	.9990	.07378
#2	12.151	-.00066	.91578	1.007	.07113
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198719-E-1-A Acquired: 6/10/2022 2:34:51 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00091**	**.00426**	**.00188**	**1.000**
Stddev	.00100	.00025	.00015	.000
%RSD	109.87	5.7625	8.0848	.0175
#1	.00020	.00444	.00177	1.000
#2	.00162	.00409	.00199	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3485.5**	**3316.0**	**67298.**	**5632.7**
Stddev	.2	.4	31.	20.9
%RSD	.00655	.01255	.04606	.37027
#1	3485.3	3316.3	67320.	5618.0
#2	3485.7	3315.7	67276.	5647.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.406%	93.896%	93.281%	91.920%
Range				

Sample Name: 480-198720-D-1-A Acquired: 6/10/2022 2:38:41 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00119**	**9.5720**	**.00558**	**.01295**	**.44958**
Stddev	.00053	.0036	.00048	.00061	.00093
%RSD	44.361	.03786	8.5089	4.7364	.20654
#1	-.00082	9.5746	.00525	.01252	.44892
#2	-.00157	9.5694	.00592	.01339	.45023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**92.841**	**.00036**	**-.0325**	**.00583**
Stddev	.00002	.032	.00009	.0084	.00007
%RSD	2.3223	.03422	24.526	26.01	1.1232
#1	.00065	92.863	.00042	-.0265	.00578
#2	.00068	92.818	.00030	-.0385	.00588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01484**	**.04289**	**11.211**	**3.2179**	**.02672**
Stddev	.00017	.00014	.009	.0526	.00026
%RSD	1.1186	.33538	.07847	1.6342	.97240
#1	.01496	.04299	11.217	3.1807	.02690
#2	.01472	.04279	11.205	3.2550	.02654
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-D-1-A Acquired: 6/10/2022 2:38:41 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.755**	**5.4615**	**-.00163**	**4.2816**	**.01452**
Stddev	.018	.0036	.00004	.0053	.00019
%RSD	.11268	.06668	2.4950	.12466	1.3112
#1	15.742	5.4640	-.00160	4.2779	.01439
#2	15.767	5.4589	-.00166	4.2854	.01466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.42**	**.01047**	**4.3987**	**-.00176**	**-.00538**
Stddev	.00	.00082	.0054	.00172	.00230
%RSD	.0036	7.8218	.12301	97.439	42.807
#1	25.42	.00989	4.4025	-.00298	-.00701
#2	25.42	.01105	4.3948	-.00055	-.00375
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.108**	**-.00073**	**.14702**	**1.004**	**.09536**
Stddev	.083	.00033	.00043	.002	.00421
%RSD	.51735	45.498	.29091	.1694	4.4123
#1	16.167	-.00096	.14732	1.003	.09833
#2	16.049	-.00049	.14672	1.005	.09238
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-D-1-A Acquired: 6/10/2022 2:38:41 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00013**	**.01222**	**.05525**	**1.001**
Stddev	.00036	.00006	.00085	.001
%RSD	283.99	.50923	1.5448	.0600
#1	-.00013	.01217	.05585	1.001
#2	.00039	.01226	.05465	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3587.0**	**3424.1**	**69456.**	**5754.7**
Stddev	.9	1.5	115.	7.1
%RSD	.02516	.04248	.16488	.12378
#1	3587.6	3425.2	69537.	5749.7
#2	3586.4	3423.1	69375.	5759.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.952%	96.957%	96.272%	93.910%
Range				

Sample Name: 480-198720-D-2-A Acquired: 6/10/2022 2:42:39 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00074**	**5.7792**	**.00280**	**.01299**	**.21861**
Stddev	.00049	.0780	.00045	.00027	.00029
%RSD	65.312	1.3488	15.923	2.0669	.13122
#1	-.00040	5.7240	.00311	.01318	.21840
#2	-.00109	5.8343	.00248	.01280	.21881
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**49.387**	**.00020**	**-.0381**	**.00272**
Stddev	.00002	.023	.00017	.0148	.00001
%RSD	8.5423	.04726	86.096	38.91	.38557
#1	.00021	49.371	.00031	-.0485	.00272
#2	.00024	49.404	.00008	-.0276	.00271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00741**	**.00547**	**7.1686**	**2.3125**	**.01518**
Stddev	.00000	.00043	.0107	.0312	.00222
%RSD	.03092	7.8655	.14971	1.3510	14.654
#1	.00741	.00578	7.1610	2.3345	.01360
#2	.00742	.00517	7.1762	2.2904	.01675
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-D-2-A Acquired: 6/10/2022 2:42:39 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.571**	**.56485**	**-.00101**	**5.1639**	**.00709**
Stddev	.004	.00102	.00013	.0089	.00000
%RSD	.03088	.18120	12.758	.17183	.03950
#1	12.569	.56413	-.00092	5.1576	.00709
#2	12.574	.56557	-.00110	5.1702	.00709
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**.00902**	**4.7964**	**-.00259**	**-.00622**
Stddev	.00	.00058	.0034	.00105	.00184
%RSD	.0011	6.4545	.06986	40.452	29.608
#1	25.12	.00861	4.7940	-.00185	-.00752
#2	25.12	.00943	4.7988	-.00333	-.00492
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.846**	**-.00063**	**.09122**	**.9972**	**.10505**
Stddev	.051	.00021	.00019	.0021	.00781
%RSD	.39769	33.991	.20433	.2107	7.4350
#1	12.882	-.00078	.09109	.9957	.09953
#2	12.810	-.00048	.09135	.9987	.11057
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-D-2-A Acquired: 6/10/2022 2:42:39 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00121**	**.00837**	**.01553**	**1.002**
Stddev	.00109	.00001	.00003	.001
%RSD	90.647	.14291	.20035	.0466
#1	.00043	.00838	.01555	1.002
#2	.00198	.00836	.01551	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3670.5**	**3411.3**	**69158.**	**5725.4**
Stddev	.9	6.2	110.	5.8
%RSD	.02470	.18305	.15840	.10207
#1	3671.1	3406.8	69235.	5721.3
#2	3669.8	3415.7	69080.	5729.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.045%	96.592%	95.859%	93.432%
Range				

Sample Name: 480-198720-D-3-A Acquired: 6/10/2022 2:46:27 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00098**	**1.4685**	**.00275**	**.01609**	**.24137**
Stddev	.00062	.0012	.00112	.00016	.00018
%RSD	63.206	.07910	40.850	.96341	.07521
#1	-.00054	1.4693	.00195	.01598	.24150
#2	-.00142	1.4677	.00354	.01620	.24124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**34.433**	**.00026**	**-.0372**	**.00020**
Stddev	.00004	.142	.00014	.0317	.00007
%RSD	38.835	.41329	54.489	85.22	33.161
#1	.00012	34.534	.00036	-.0148	.00015
#2	.00007	34.333	.00016	-.0596	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00088**	**1.2250**	**.80588**	**.00712**
Stddev	.00026	.00040	.0011	.01040	.00099
%RSD	108.73	45.982	.09027	1.2910	13.975
#1	.00043	.00116	1.2258	.79852	.00642
#2	.00006	.00059	1.2242	.81324	.00782
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-D-3-A Acquired: 6/10/2022 2:46:27 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.1737**	**.61418**	**-.00091**	**8.4767**	**.00103**
Stddev	.0136	.00005	.00021	.0183	.00046
%RSD	.16598	.00799	22.782	.21609	44.221
#1	8.1641	.61422	-.00077	8.4897	.00071
#2	8.1833	.61415	-.00106	8.4638	.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00334**	**3.2047**	**-.00009**	**-.00702**
Stddev	.00	.00045	.0071	.00266	.00018
%RSD	.0045	13.516	.22148	2818.0	2.5577
#1	25.02	.00302	3.2097	-.00198	-.00689
#2	25.02	.00366	3.1997	.00179	-.00714
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.6929**	**-.00015**	**.08119**	**.9968**	**.02176**
Stddev	.0263	.00004	.00003	.0025	.00089
%RSD	.34221	26.259	.03765	.2547	4.0911
#1	7.6743	-.00012	.08122	.9986	.02113
#2	7.7115	-.00017	.08117	.9950	.02239
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-D-3-A Acquired: 6/10/2022 2:46:27 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00192**	**.00086**	**.01102**	**.9998**
Stddev	.00061	.00004	.00028	.0001
%RSD	31.924	4.7252	2.5759	.0073
#1	.00236	.00089	.01123	.9999
#2	.00149	.00083	.01082	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3705.7**	**3402.9**	**68863.**	**5688.4**
Stddev	4.6	1.7	27.	45.1
%RSD	.12521	.04924	.03877	.79219
#1	3708.9	3401.7	68845.	5656.5
#2	3702.4	3404.1	68882.	5720.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.927%	96.356%	95.451%	92.828%
Range				

Sample Name: 480-198720-D-4-A Acquired: 6/10/2022 2:50:16 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00100**	**5.2642**	**.00413**	**.01291**	**.21854**
Stddev	.00021	.0144	.00069	.00007	.00033
%RSD	21.216	.27280	16.690	.55627	.15284
#1	-.00115	5.2744	.00462	.01296	.21878
#2	-.00085	5.2540	.00365	.01286	.21831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**50.142**	**.00014**	**-.0152**	**.00247**
Stddev	.00001	.128	.00006	.0164	.00015
%RSD	3.4551	.25479	44.265	107.9	6.2313
#1	.00027	50.233	.00019	-.0036	.00236
#2	.00026	50.052	.00010	-.0268	.00258
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00681**	**.00527**	**6.6151**	**2.1857**	**.01599**
Stddev	.00020	.00001	.0010	.0212	.00072
%RSD	2.9937	.19399	.01572	.97174	4.5160
#1	.00696	.00526	6.6158	2.2007	.01651
#2	.00667	.00527	6.6143	2.1707	.01548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-D-4-A Acquired: 6/10/2022 2:50:16 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.589**	**.56083**	**-.00087**	**5.2789**	**.00661**
Stddev	.002	.00050	.00022	.0017	.00009
%RSD	.01646	.08970	25.456	.03181	1.3395
#1	12.590	.56119	-.00103	5.2801	.00667
#2	12.587	.56048	-.00071	5.2777	.00654
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**.00857**	**4.8614**	**-.00149**	**-.00652**
Stddev	.00	.00071	.0053	.00099	.00473
%RSD	.0029	8.3351	.10802	66.533	72.573
#1	25.12	.00807	4.8577	-.00219	-.00987
#2	25.12	.00908	4.8651	-.00079	-.00317
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.115**	**-.00033**	**.09250**	**1.001**	**.11075**
Stddev	.013	.00037	.00023	.001	.01027
%RSD	.10802	113.64	.25263	.0673	9.2697
#1	12.106	-.00059	.09267	1.001	.11800
#2	12.124	-.00006	.09234	1.002	.10349
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-D-4-A Acquired: 6/10/2022 2:50:16 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00308**	**.00744**	**.01485**	**1.001**
Stddev	.00028	.00024	.00077	.000
%RSD	9.1148	3.1788	5.1891	.0433
#1	.00288	.00761	.01431	1.001
#2	.00328	.00727	.01540	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3680.1**	**3424.5**	**69454.**	**5718.5**
Stddev	2.4	2.3	48.	1.6
%RSD	.06499	.06714	.06938	.02845
#1	3681.8	3426.1	69488.	5717.4
#2	3678.4	3422.9	69420.	5719.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.287%	96.967%	96.269%	93.320%
Range				

Sample Name: CCV-7024752 Acquired: 6/10/2022 2:54:05 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0365**	**52.287**	**1.0464**	**1.0638**	**1.0418**
Stddev	.0005	.276	.0048	.0001	.0047
%RSD	.04622	.52841	.46052	.00445	.45343
#1	1.0368	52.091	1.0498	1.0639	1.0384
#2	1.0361	52.482	1.0430	1.0638	1.0451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0423**	**52.720**	**1.0496**	**1.009**	**1.0398**
Stddev	.0046	.197	.0003	.017	.0001
%RSD	.44147	.37379	.02980	1.663	.00597
#1	1.0390	52.581	1.0498	.9971	1.0398
#2	1.0455	52.860	1.0494	1.021	1.0398
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0521**	**1.0460**	**53.631**	**53.504**	**1.0443**
Stddev	.0028	.0012	.453	.221	.0045
%RSD	.26307	.10971	.84492	.41330	.42812
#1	1.0502	1.0452	53.310	53.348	1.0411
#2	1.0541	1.0468	53.951	53.661	1.0474
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 2:54:05 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.827**	**1.0608**	**1.0476**	**52.762**	**1.0493**
Stddev	.063	.0011	.0034	.139	.0007
%RSD	.11858	.10685	.32315	.26337	.06258
#1	52.782	1.0600	1.0500	52.664	1.0488
#2	52.871	1.0616	1.0452	52.860	1.0497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.23**	**1.0497**	**26.261**	**1.0461**	**1.0502**
Stddev	.01	.0031	.003	.0044	.0011
%RSD	.0200	.29324	.01009	.42087	.10447
#1	38.23	1.0475	26.263	1.0493	1.0510
#2	38.22	1.0518	26.259	1.0430	1.0495
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.449**	**1.0477**	**1.0494**	**1.539**	**1.0462**
Stddev	.058	.0022	.0051	.007	.0011
%RSD	.55626	.20985	.48894	.4603	.10938
#1	10.408	1.0492	1.0458	1.534	1.0454
#2	10.490	1.0461	1.0530	1.544	1.0470
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 2:54:05 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0601**	**1.0553**	**1.0869**	**1.530**
Stddev	.0003	.0027	.0034	.001
%RSD	.02832	.25571	.30777	.0741
#1	1.0603	1.0534	1.0893	1.529
#2	1.0598	1.0572	1.0845	1.531
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3369.3**	**3302.0**	**66129.**	**5500.7**
Stddev	8.9	4.6	100.	11.2
%RSD	.26342	.13896	.15175	.20322
#1	3375.6	3305.3	66200.	5508.6
#2	3363.0	3298.8	66058.	5492.8

Sample Name: CCB-7026764 Acquired: 6/10/2022 2:57:45 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00107**	**-.03926**	**.00106**	**.00038**	**.00005**
Stddev	.00002	.01317	.00110	.00023	.00000
%RSD	2.1075	33.553	104.04	61.470	.93149
#1	-.00105	-.02995	.00184	.00054	.00005
#2	-.00109	-.04858	.00028	.00021	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**-.00020**	**.00004**	**-.0111**	**-.00003**
Stddev	.00000	.00066	.00014	.0205	.00003
%RSD	.30746	333.84	386.59	185.1	120.46
#1	.00009	.00027	.00014	-.0256	-.00005
#2	.00009	-.00066	-.00006	.0034	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00042**	**.00660**	**.03274**	**-.00018**
Stddev	.00005	.00029	.00215	.03978	.00001
%RSD	267.20	69.654	32.556	121.52	6.1280
#1	.00002	.00021	.00508	.06087	-.00017
#2	-.00006	.00063	.00812	.00461	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 2:57:45 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.00005**	**.00223**	**.00122**	**-.00003**
Stddev	.00265	.00005	.00035	.00263	.00011
%RSD	375.78	98.293	15.709	215.52	348.62
#1	-.00117	.00009	.00198	-.00064	-.00011
#2	.00258	.00002	.00248	.00308	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00006**	**-.01389**	**.00121**	**.00212**
Stddev	.00	.00046	.00077	.00207	.00168
%RSD	.0012	710.83	5.5411	171.60	79.018
#1	25.00	-.00039	-.01444	.00267	.00331
#2	25.00	.00026	-.01335	-.00026	.00094
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03490**	**-.00003**	**.00008**	**.9991**	**.00018**
Stddev	.00070	.00050	.00011	.0024	.00016
%RSD	2.0113	1669.4	127.83	.2421	86.125
#1	-.03540	.00033	.00016	.9973	.00029
#2	-.03440	-.00039	.00001	1.001	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 2:57:45 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00028**	**-.00003**	**.00016**	**.9993**
Stddev	.00114	.00034	.00099	.0001
%RSD	413.05	1022.6	614.95	.0100
#1	.00053	.00020	.00086	.9993
#2	-.00108	-.00027	-.00054	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4019.3**	**3549.7**	**72336.**	**5751.3**
Stddev	1.6	5.1	98.	13.5
%RSD	.03953	.14436	.13558	.23528
#1	4018.2	3546.1	72267.	5741.8
#2	4020.4	3553.4	72406.	5760.9

Sample Name: CCVL-7019501 Acquired: 6/10/2022 3:01:40 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00560**	**.16715**	**.01347**	**.01880**	**.00206**
Stddev	.00034	.01343	.00007	.00031	.00001
%RSD	6.1163	8.0363	.49642	1.6334	.28926
#1	.00536	.15765	.01343	.01901	.00206
#2	.00584	.17664	.01352	.01858	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00200**	**.49881**	**.00194**	**-.0055**	**.00380**
Stddev	.00001	.00008	.00009	.0021	.00015
%RSD	.68531	.01544	4.8370	37.44	3.9323
#1	.00199	.49886	.00187	-.0041	.00369
#2	.00201	.49875	.00201	-.0070	.00390
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00362**	**.01056**	**.05182**	**.47587**	**.02773**
Stddev	.00028	.00000	.00233	.00162	.00140
%RSD	7.8685	.03359	4.4972	.34007	5.0619
#1	.00382	.01056	.05018	.47702	.02674
#2	.00342	.01056	.05347	.47473	.02872
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7019501 Acquired: 6/10/2022 3:01:40 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19443**	**.00298**	**.00938**	**.96330**	**.00967**
Stddev	.00032	.00005	.00030	.00336	.00014
%RSD	.16434	1.5342	3.2381	.34926	1.4425
#1	.19466	.00301	.00916	.96092	.00977
#2	.19420	.00294	.00959	.96567	.00957
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00923**	**.16377**	**.01956**	**.01837**
Stddev	.00	.00008	.00203	.00045	.00267
%RSD	.0053	.88307	1.2420	2.3031	14.514
#1	25.00	.00917	.16233	.01924	.02026
#2	25.00	.00928	.16520	.01988	.01649
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44320**	**.00818**	**.00503**	F **1.001**	**.00426**
Stddev	.01067	.00023	.00005	.004	.00013
%RSD	2.4076	2.8219	.93231	.4544	2.9900
#1	.45075	.00801	.00506	.9979	.00417
#2	.43566	.00834	.00500	1.004	.00435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7019501 Acquired: 6/10/2022 3:01:40 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02140**	**.00477**	W **.00694**	F **.9993**
Stddev	.00060	.00025	.00115	.0008
%RSD	2.8232	5.3244	16.638	.0769
#1	.02097	.00495	.00775	.9998
#2	.02182	.00459	.00612	.9987
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Fail
Value			.01000	.0060
Range			-30.000%	50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3992.1**	**3549.9**	**72188.**	**5775.9**
Stddev	6.2	1.1	30.	45.6
%RSD	.15611	.03120	.04194	.78963
#1	3987.7	3549.1	72167.	5743.7
#2	3996.5	3550.7	72210.	5808.2

Sample Name: MB 480-629208/1-A Acquired: 6/10/2022 3:05:32 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	F **-.04980**	**-.00206**	**-.00007**	**.00002**
Stddev	.00032	.00113	.00028	.00058	.00002
%RSD	82.574	2.2727	13.812	816.90	82.975
#1	-.00062	-.05060	-.00186	.00034	.00003
#2	-.00016	-.04900	-.00226	-.00049	.00001
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.20000			
Low Limit		-.04000			

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.02403**	**-.00002**	**-.0096**	**-.00005**
Stddev	.00002	.00228	.00007	.0240	.00009
%RSD	30.600	9.4705	314.16	249.3	185.83
#1	.00008	.02242	.00003	-.0266	.00001
#2	.00005	.02564	-.00007	.0073	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00070**	**.00771**	**.00843**	**.00067**
Stddev	.00016	.00015	.00207	.00178	.00033
%RSD	60.217	20.893	26.800	21.103	49.147
#1	-.00016	.00081	.00917	.00969	.00090
#2	-.00039	.00060	.00625	.00717	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629208/1-A Acquired: 6/10/2022 3:05:32 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00148**	**.00009**	**-.00111**	**.02111**	**.00023**
Stddev	.00034	.00001	.00002	.00407	.00018
%RSD	23.057	14.835	1.7240	19.281	78.096
#1	.00124	.00008	-.00113	.02399	.00036
#2	.00172	.00010	-.00110	.01823	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00047**	**-.00212**	**-.00223**	**-.00432**
Stddev	.00	.00047	.00150	.00149	.00199
%RSD	.0015	99.515	70.771	66.928	46.097
#1	25.00	.00080	-.00318	-.00118	-.00573
#2	25.00	.00014	-.00106	-.00329	-.00291
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01189**	**-.00043**	**.00006**	**.9993**	**-.00044**
Stddev	.02153	.00051	.00007	.0045	.00012
%RSD	181.02	116.81	125.08	.4516	27.327
#1	.00333	-.00079	.00001	.9961	-.00035
#2	-.02712	-.00008	.00011	1.002	-.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629208/1-A Acquired: 6/10/2022 3:05:32 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00047**	**-.00013**	**-.00246**	**.9994**
Stddev	.00028	.00007	.00092	.0005
%RSD	58.578	56.484	37.445	.0514
#1	.00067	-.00008	-.00181	.9998
#2	.00028	-.00018	-.00311	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3943.8**	**3483.3**	**70885.**	**5691.7**
Stddev	.6	3.2	156.	19.9
%RSD	.01575	.09251	.22053	.34995
#1	3943.3	3481.0	70996.	5705.8
#2	3944.2	3485.6	70775.	5677.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.898%	98.633%	98.253%	92.883%
Range				

Sample Name: LCS 480-629208/2-A Acquired: 6/10/2022 3:09:25 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04692**	**9.6108**	**.19396**	**.19109**	**.20039**
Stddev	.00063	.0337	.00283	.00027	.00039
%RSD	1.3524	.35092	1.4604	.14166	.19689
#1	.04647	9.5870	.19196	.19128	.20011
#2	.04736	9.6347	.19596	.19090	.20067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19782**	**9.8038**	**.19067**	**-.0355**	**.19049**
Stddev	.00168	.0426	.00003	.0045	.00015
%RSD	.84812	.43415	.01672	12.60	.08017
#1	.19663	9.7737	.19069	-.0323	.19060
#2	.19901	9.8339	.19065	-.0387	.19038
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19457**	**.20015**	**10.001**	**9.7356**	**.18786**
Stddev	.00086	.00020	.041	.0474	.00112
%RSD	.44004	.10074	.40841	.48668	.59416
#1	.19397	.20000	9.9716	9.7021	.18865
#2	.19518	.20029	10.029	9.7691	.18707
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629208/2-A Acquired: 6/10/2022 3:09:25 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.157**	**.20204**	**.19769**	**9.4666**	**.18876**
Stddev	.046	.00052	.00056	.0514	.00031
%RSD	.45670	.25959	.28344	.54333	.16394
#1	10.124	.20166	.19808	9.4302	.18855
#2	10.190	.20241	.19729	9.5029	.18898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.19276**	**9.4758**	**.19854**	**.18759**
Stddev	.00	.00089	.0040	.00080	.00241
%RSD	.0008	.46323	.04211	.40273	1.2874
#1	25.00	.19339	9.4787	.19911	.18588
#2	25.00	.19213	9.4730	.19798	.18930
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3829**	F **.23039**	**.19488**	**1.001**	**.19593**
Stddev	.0923	.00035	.00100	.003	.00038
%RSD	.98337	.15178	.51545	.2886	.19260
#1	9.3176	.23014	.19417	.9989	.19566
#2	9.4481	.23064	.19559	1.003	.19620
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: LCS 480-629208/2-A Acquired: 6/10/2022 3:09:25 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19600**	**.19556**	**.19251**	**1.000**
Stddev	.00088	.00032	.00032	.000
%RSD	.45129	.16508	.16649	.0129
#1	.19663	.19533	.19228	1.000
#2	.19538	.19578	.19273	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3782.1**	**3480.9**	**70451.**	**5797.6**
Stddev	1.5	1.1	79.	55.3
%RSD	.03892	.03288	.11266	.95446
#1	3783.1	3481.7	70507.	5836.8
#2	3781.0	3480.1	70395.	5758.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.844%	98.565%	97.652%	94.611%
Range				

Sample Name: LCSD 480-629208/3-A Acquired: 6/10/2022 3:13:07 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04777**	**9.6941**	**.19247**	**.19282**	**.20223**
Stddev	.00006	.0659	.00329	.00032	.00026
%RSD	.12221	.68023	1.7117	.16549	.12933
#1	.04781	9.7408	.19014	.19305	.20241
#2	.04773	9.6475	.19480	.19260	.20204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19650**	**9.7690**	**.19041**	**-.0345**	**.18999**
Stddev	.00091	.0245	.00021	.0325	.00047
%RSD	.46450	.25073	.10910	94.20	.24930
#1	.19715	9.7863	.19026	-.0115	.18966
#2	.19586	9.7517	.19055	-.0575	.19033
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19597**	**.20097**	**9.9246**	**9.7434**	**.18947**
Stddev	.00050	.00102	.0250	.0131	.00239
%RSD	.25285	.50572	.25151	.13408	1.2605
#1	.19632	.20025	9.9423	9.7526	.19115
#2	.19562	.20168	9.9070	9.7341	.18778
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSD 480-629208/3-A Acquired: 6/10/2022 3:13:07 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.255**	**.20225**	**.19809**	**9.4371**	**.18972**
Stddev	.016	.00017	.00000	.0368	.00015
%RSD	.15127	.08427	.00188	.38964	.07986
#1	10.266	.20237	.19808	9.4631	.18962
#2	10.244	.20213	.19809	9.4111	.18983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.19022**	**9.4397**	**.20138**	**.18911**
Stddev	.00	.00112	.0071	.00044	.00197
%RSD	.0031	.58772	.07482	.21684	1.0420
#1	25.00	.19101	9.4447	.20169	.18772
#2	25.00	.18943	9.4347	.20107	.19051
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4641**	**.22944**	**.19640**	**.9987**	**.20829**
Stddev	.0245	.00074	.00108	.0024	.00028
%RSD	.25896	.32213	.54866	.2368	.13462
#1	9.4814	.22996	.19716	.9970	.20810
#2	9.4468	.22892	.19564	1.000	.20849
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSD 480-629208/3-A Acquired: 6/10/2022 3:13:07 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19533**	**.21756**	**.19267**	**.9996**
Stddev	.00174	.00061	.00207	.0006
%RSD	.89007	.27885	1.0745	.0644
#1	.19410	.21799	.19413	.9991
#2	.19656	.21714	.19121	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3813.0**	**3502.5**	**70665.**	**5903.5**
Stddev	5.5	.8	265.	24.1
%RSD	.14480	.02142	.37454	.40871
#1	3816.9	3503.1	70478.	5886.4
#2	3809.1	3502.0	70852.	5920.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.618%	99.177%	97.948%	96.339%
Range				

Sample Name: 480-198754-A-1-A@100 Acquired: 6/10/2022 3:16:47 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00285**	**-.07666**	**-.00068**	**-.00040**	**.00036**
Stddev	.00010	.00339	.00164	.00018	.00001
%RSD	3.5843	4.4244	241.65	43.975	1.5587
#1	.00292	-.07906	-.00184	-.00052	.00036
#2	.00277	-.07426	.00048	-.00027	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00569**	**.04215**	**.00130**	**-.0289**	**-.00008**
Stddev	.00001	.00104	.00023	.0450	.00036
%RSD	.25464	2.4718	17.718	155.9	449.72
#1	.00568	.04142	.00146	.0030	.00018
#2	.00570	.04289	.00114	-.0607	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**-.00340**	**.00681**	**-.00869**	**.00029**
Stddev	.00048	.00032	.00020	.02294	.00135
%RSD	58.647	9.3704	2.9141	263.84	467.99
#1	-.00047	-.00363	.00667	.00753	-.00067
#2	-.00115	-.00318	.00695	-.02491	.00125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198754-A-1-A@100 Acquired: 6/10/2022 3:16:47 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00274**	F **-.00351**	**-.00851**	**.18442**	**-.00016**
Stddev	.00212	.00001	.00037	.00759	.00000
%RSD	77.677	.30344	4.3083	4.1131	2.9045
#1	-.00123	-.00350	-.00877	.17906	-.00017
#2	-.00424	-.00352	-.00825	.18979	-.00016
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00982**	**.24387**	**.00339**	**-.00546**
Stddev	.00	.00011	.00104	.00037	.00244
%RSD	.0028	1.1500	.42701	10.864	44.656
#1	25.01	.00974	.24313	.00365	-.00718
#2	25.00	.00990	.24461	.00313	-.00374
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.481**	**.00145**	**.00017**	**1.000**	**4.7065**
Stddev	.010	.00005	.00003	.002	.0157
%RSD	.06145	3.7647	20.334	.2038	.33364
#1	15.474	.00149	.00019	1.002	4.6954
#2	15.488	.00141	.00014	.9988	4.7176
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198754-A-1-A@100 Acquired: 6/10/2022 3:16:47 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	F **-.05528**	F **35.089**	**-.00228**	**1.002**
Stddev	.00050	.092	.00065	.000
%RSD	.90118	.26083	28.680	.0366
#1	-.05564	35.154	-.00274	1.002
#2	-.05493	35.025	-.00182	1.002
Check ?	Chk Fail	Chk Fail	Chk Pass	None
High Limit	18.000	4.5000		
Low Limit	-.02000	-.00500		
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3889.5**	**3447.9**	**70043.**	**5570.4**
Stddev	2.4	4.9	109.	12.5
%RSD	.06137	.14324	.15606	.22474
#1	3887.8	3444.4	69966.	5579.2
#2	3891.1	3451.4	70121.	5561.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.537%	97.630%	97.086%	90.903%
Range				

Sample Name: 198754-A-1-Asd@500 Acquired: 6/10/2022 3:20:44 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.04435**	**-.00103**	**-.00058**	**.00006**
Stddev	.00014	.02060	.00060	.00040	.00001
%RSD	310.74	46.435	57.595	68.805	22.557
#1	.00005	-.05892	-.00146	-.00030	.00007
#2	-.00014	-.02979	-.00061	-.00086	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00101**	**.00123**	**.00026**	**-.0249**	**.00005**
Stddev	.00012	.00221	.00002	.0305	.00001
%RSD	12.162	179.78	6.0743	122.6	18.117
#1	.00110	.00279	.00027	-.0465	.00006
#2	.00092	-.00033	.00025	-.0033	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**-.00127**	**-.00205**	**.00308**	**-.00064**
Stddev	.00043	.00035	.00258	.01085	.00038
%RSD	82.067	27.412	125.96	352.21	59.361
#1	-.00022	-.00152	-.00388	-.00459	-.00037
#2	-.00083	-.00102	-.00022	.01075	-.00090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 198754-A-1-Asd@500 Acquired: 6/10/2022 3:20:44 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**-.00081**	**-.00276**	**.01099**	**-.00008**
Stddev	.00030	.00007	.00009	.00068	.00016
%RSD	46.224	8.9418	3.1566	6.2023	204.53
#1	-.00086	-.00087	-.00282	.01147	.00003
#2	-.00044	-.00076	-.00270	.01051	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00148**	**.02369**	**-.00034**	**-.00812**
Stddev	.00	.00058	.00081	.00182	.00364
%RSD	.0007	39.101	3.4286	533.48	44.855
#1	25.00	.00189	.02427	-.00163	-.00555
#2	25.00	.00107	.02312	.00095	-.01070
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94465**	**-.00042**	**.00003**	**.9944**	**1.1529**
Stddev	.04570	.00073	.00004	.0001	.0103
%RSD	4.8380	174.23	110.08	.0138	.89484
#1	.97697	-.00094	.00006	.9945	1.1602
#2	.91233	.00010	.00001	.9943	1.1456
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 198754-A-1-Asd@500 Acquired: 6/10/2022 3:20:44 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00778**	F **6.4660**	**-.00298**	**.9998**
Stddev	.00006	.0227	.00007	.0010
%RSD	.76958	.35132	2.3981	.1013
#1	-.00782	6.4821	-.00293	1.001
#2	-.00774	6.4500	-.00303	.9991
Check ?	Chk Pass	Chk Fail	Chk Pass	None
High Limit		4.5000		
Low Limit		-.00500		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4027.5**	**3558.1**	**72187.**	**5796.4**
Stddev	1.7	5.2	333.	.4
%RSD	.04138	.14663	.46145	.00732
#1	4028.7	3561.8	71952.	5796.7
#2	4026.3	3554.5	72423.	5796.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.00%	100.75%	100.06%	94.591%
Range				

Sample Name: 198754-A-1-APDS@100 Acquired: 6/10/2022 3:24:36 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05410**	**10.595**	**.17429**	**.20214**	**.21232**
Stddev	.00016	.011	.00331	.00072	.00062
%RSD	.30074	.09977	1.9010	.35745	.29246
#1	.05421	10.587	.17663	.20163	.21188
#2	.05398	10.602	.17195	.20265	.21276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22355**	**10.767**	**.20581**	**-.0202**	**.20461**
Stddev	.00032	.014	.00001	.0151	.00046
%RSD	.14478	.13314	.00623	75.11	.22414
#1	.22332	10.757	.20580	-.0309	.20494
#2	.22378	10.777	.20582	-.0095	.20429
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21319**	**.20969**	**10.802**	**10.649**	**.20949**
Stddev	.00093	.00044	.009	.022	.00019
%RSD	.43470	.20997	.08179	.20698	.08861
#1	.21385	.20938	10.795	10.633	.20935
#2	.21254	.21000	10.808	10.664	.20962
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 198754-A-1-APDS@100 Acquired: 6/10/2022 3:24:36 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.927**	**.21532**	**.01834**	**10.589**	**.20296**
Stddev	.030	.00093	.00014	.022	.00044
%RSD	.27553	.43365	.78950	.20751	.21856
#1	10.906	.21466	.01845	10.574	.20328
#2	10.949	.21598	.01824	10.605	.20265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.21645**	**10.167**	**.15934**	**.16516**
Stddev	.00	.00045	.005	.00383	.00081
%RSD	.0006	.21017	.04871	2.4010	.49166
#1	25.02	.21612	10.170	.15664	.16458
#2	25.02	.21677	10.163	.16205	.16573
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.833**	**.20172**	**.21243**	**1.000**	**6.5635**
Stddev	.045	.00122	.00044	.002	.0100
%RSD	.16087	.60495	.20785	.1634	.15238
#1	27.865	.20086	.21274	1.002	6.5564
#2	27.801	.20258	.21212	.9992	6.5706
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 198754-A-1-APDS@100 Acquired: 6/10/2022 3:24:36 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.15678**	F **36.240**	**.20866**	**1.010**
Stddev	.00110	.036	.00039	.000
%RSD	.70433	.10064	.18496	.0389
#1	.15756	36.215	.20893	1.010
#2	.15600	36.266	.20838	1.010
Check ?	Chk Pass	Chk Fail	Chk Pass	None
High Limit		4.5000		
Low Limit		-.00500		
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3693.0**	**3421.1**	**69323.**	**5520.9**
Stddev	7.3	.4	201.	5.8
%RSD	.19711	.01165	.28968	.10415
#1	3687.9	3421.3	69465.	5525.0
#2	3698.2	3420.8	69181.	5516.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.610%	96.870%	96.088%	90.096%
Range				

Sample Name: RINSE Acquired: 6/10/2022 3:28:23 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**-.02531**	**-.00053**	**-.00041**	**.00001**
Stddev	.00019	.01061	.00028	.00006	.00001
%RSD	44.438	41.914	53.048	13.472	114.19
#1	-.00029	-.01781	-.00033	-.00037	.00000
#2	-.00056	-.03282	-.00073	-.00045	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00162**	**.00001**	**-.0076**	**-.00003**
Stddev	.00005	.00315	.00001	.0154	.00009
%RSD	294.30	193.94	120.30	201.6	285.04
#1	.00005	.00060	.00000	.0032	-.00010
#2	-.00002	-.00385	.00001	-.0185	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00023**	**.00119**	**-.01764**	**-.00211**
Stddev	.00026	.00007	.00186	.02162	.00110
%RSD	384.22	32.566	156.26	122.60	52.096
#1	-.00011	.00028	-.00012	-.03293	-.00288
#2	.00025	.00018	.00250	-.00235	-.00133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: RINSE Acquired: 6/10/2022 3:28:23 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00097**	**-.00000**	**-.00140**	**-.01471**	**-.00011**
Stddev	.00037	.00004	.00005	.00771	.00005
%RSD	38.378	2641.5	3.3718	52.419	47.608
#1	.00070	-.00003	-.00143	-.02017	-.00008
#2	.00123	.00003	-.00136	-.00926	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00014**	**-.02129**	**-.00059**	**-.00384**
Stddev	.00	.00049	.00430	.00033	.00028
%RSD	.0002	354.82	20.201	55.811	7.3462
#1	25.00	-.00021	-.01825	-.00082	-.00404
#2	25.00	.00048	-.02433	-.00035	-.00364
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03365**	**-.00099**	**-.00003**	**1.000**	**.00188**
Stddev	.02154	.00033	.00003	.003	.00006
%RSD	64.021	33.817	102.84	.3153	3.2688
#1	-.01842	-.00075	-.00001	.9982	.00183
#2	-.04888	-.00122	-.00006	1.003	.00192
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: RINSE Acquired: 6/10/2022 3:28:23 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00123**	**.00122**	**-.00003**	**.9991**
Stddev	.00033	.00012	.00011	.0007
%RSD	26.864	10.187	363.27	.0682
#1	.00146	.00113	.00005	.9996
#2	.00099	.00130	-.00011	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4046.7**	**3549.0**	**72220.**	**5835.9**
Stddev	1.2	2.6	102.	9.4
%RSD	.02851	.07351	.14087	.16181
#1	4047.6	3547.1	72148.	5842.6
#2	4045.9	3550.8	72292.	5829.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.48%	100.49%	100.10%	95.236%
Range				

Sample Name: RINSE Acquired: 6/10/2022 3:32:17 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00084**	**-.00961**	**-.00118**	**-.00083**	**-.00000**
Stddev	.00004	.02451	.00026	.00025	.00001
%RSD	5.0274	254.92	21.861	29.717	521.79
#1	-.00081	-.02694	-.00099	-.00100	.00001
#2	-.00087	.00772	-.00136	-.00065	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00264**	**.00002**	**-.0064**	**-.00004**
Stddev	.00002	.00480	.00023	.0019	.00012
%RSD	140.83	181.46	1098.7	29.76	291.69
#1	.00000	.00075	.00018	-.0078	.00004
#2	.00003	-.00603	-.00014	-.0051	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.00011**	**.00012**	**-.01801**	**.00000**
Stddev	.00024	.00073	.00175	.02574	.00028
%RSD	72.205	683.00	1448.7	142.94	18605.
#1	-.00051	-.00041	-.00112	-.03622	-.00020
#2	-.00016	.00062	.00136	.00019	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: RINSE Acquired: 6/10/2022 3:32:17 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00003**	**-.00146**	**-.02088**	**-.00014**
Stddev	.00381	.00000	.00002	.00083	.00007
%RSD	1363.7	5.4342	1.3944	3.9664	48.960
#1	.00297	.00003	-.00147	-.02029	-.00009
#2	-.00241	.00004	-.00145	-.02146	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00004**	**-.02323**	**-.00115**	**-.00278**
Stddev	.00	.00005	.00230	.00281	.00385
%RSD	.0010	133.89	9.8984	245.37	138.82
#1	25.00	-.00000	-.02160	.00084	-.00005
#2	25.00	-.00007	-.02485	-.00313	-.00550
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01288**	**-.00090**	**.00002**	**.9991**	**-.00015**
Stddev	.00408	.00034	.00005	.0019	.00011
%RSD	31.702	37.834	245.54	.1889	70.691
#1	-.01577	-.00114	.00005	.9978	-.00023
#2	-.00999	-.00066	-.00001	1.000	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: RINSE Acquired: 6/10/2022 3:32:17 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.00026**	**-.00094**	**.9998**
Stddev	.00147	.00033	.00007	.0004
%RSD	339.95	130.35	6.9891	.0395
#1	-.00147	.00049	-.00098	.9995
#2	.00061	.00002	-.00089	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4054.5**	**3556.3**	**72455.**	**5817.6**
Stddev	1.9	3.1	152.	10.3
%RSD	.04731	.08706	.20943	.17735
#1	4055.8	3554.1	72347.	5824.8
#2	4053.1	3558.5	72562.	5810.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.67%	100.70%	100.43%	94.936%
Range				

Sample Name: RINSE Acquired: 6/10/2022 3:36:10 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00115**	**-.00201**	**-.00196**	**-.00103**	**-.00001**
Stddev	.00030	.01529	.00041	.00020	.00000
%RSD	26.216	760.84	20.894	19.286	4.8430
#1	-.00136	.00880	-.00225	-.00089	-.00001
#2	-.00094	-.01282	-.00167	-.00118	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00094**	**-.00006**	**-.0423**	**-.00006**
Stddev	.00001	.00059	.00010	.0066	.00012
%RSD	60.964	63.050	171.98	15.71	206.34
#1	.00001	.00052	.00001	-.0470	-.00014
#2	.00002	.00136	-.00013	-.0376	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00046**	**-.00126**	**-.02715**	**-.00042**
Stddev	.00022	.00029	.00225	.02482	.00040
%RSD	173.74	62.496	178.47	91.443	95.161
#1	-.00003	.00066	.00033	-.04470	-.00014
#2	.00029	.00026	-.00286	-.00959	-.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: RINSE Acquired: 6/10/2022 3:36:10 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00155**	**.00004**	**-.00133**	**-.02406**	**-.00012**
Stddev	.00030	.00004	.00014	.00249	.00004
%RSD	19.670	116.15	10.166	10.367	36.402
#1	-.00177	.00001	-.00143	-.02582	-.00015
#2	-.00133	.00007	-.00124	-.02229	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00000**	**-.02374**	**-.00128**	**-.00525**
Stddev	.00	.00044	.00182	.00015	.00088
%RSD	.0008	9625.6	7.6790	12.032	16.804
#1	25.00	-.00032	-.02503	-.00117	-.00463
#2	25.00	.00031	-.02245	-.00138	-.00587
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02917**	**-.00033**	**.00002**	**.9978**	**-.00001**
Stddev	.00643	.00008	.00002	.0027	.00026
%RSD	22.030	24.078	133.39	.2674	3642.3
#1	-.03372	-.00039	.00003	.9959	-.00019
#2	-.02463	-.00027	.00000	.9997	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: RINSE Acquired: 6/10/2022 3:36:10 Type: Unk
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00093**	**-.00007**	**-.00038**	**.9986**
Stddev	.00064	.00014	.00020	.0006
%RSD	68.213	202.65	52.518	.0609
#1	.00048	-.00017	-.00024	.9990
#2	.00138	.00003	-.00052	.9982
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4057.3**	**3566.1**	**72883.**	**5752.4**
Stddev	.7	4.8	231.	15.4
%RSD	.01719	.13384	.31720	.26736
#1	4057.8	3562.7	72719.	5741.5
#2	4056.8	3569.4	73046.	5763.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.75%	100.98%	101.02%	93.873%
Range				

Sample Name: CCV-7024752 Acquired: 6/10/2022 3:40:04 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0298**	**51.441**	**1.0298**	**1.0432**	**1.0105**
Stddev	.0023	.114	.0007	.0011	.0035
%RSD	.22491	.22142	.07067	.10633	.34737
#1	1.0281	51.522	1.0293	1.0440	1.0130
#2	1.0314	51.361	1.0303	1.0424	1.0080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0189**	**51.847**	**1.0285**	**.9648**	**1.0163**
Stddev	.0032	.144	.0010	.0248	.0007
%RSD	.31590	.27834	.10150	2.568	.06565
#1	1.0212	51.949	1.0277	.9823	1.0158
#2	1.0166	51.745	1.0292	.9473	1.0168
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0391**	**1.0376**	**52.737**	**52.388**	**1.0265**
Stddev	.0005	.0021	.154	.159	.0011
%RSD	.04792	.20136	.29290	.30308	.10544
#1	1.0394	1.0361	52.628	52.501	1.0273
#2	1.0387	1.0391	52.846	52.276	1.0258
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 3:40:04 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.449**	**1.0501**	**1.0295**	**51.562**	**1.0322**
Stddev	.035	.0002	.0014	.139	.0003
%RSD	.06722	.01493	.13242	.26910	.03103
#1	52.424	1.0500	1.0305	51.661	1.0320
#2	52.474	1.0502	1.0285	51.464	1.0324
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.95**	**1.0307**	**25.825**	**1.0350**	**1.0360**
Stddev	.00	.0023	.047	.0032	.0008
%RSD	.0043	.22026	.18245	.31419	.07845
#1	37.95	1.0323	25.792	1.0327	1.0365
#2	37.95	1.0291	25.858	1.0373	1.0354
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.304**	**1.0237**	**1.0273**	**1.516**	**1.0327**
Stddev	.010	.0008	.0019	.009	.0001
%RSD	.09345	.08275	.18006	.5771	.01273
#1	10.297	1.0231	1.0286	1.522	1.0326
#2	10.311	1.0243	1.0259	1.510	1.0328
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 3:40:04 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0371**	**1.0436**	**1.0643**	**1.519**
Stddev	.0028	.0005	.0008	.001
%RSD	.27006	.04988	.07309	.0309
#1	1.0391	1.0433	1.0637	1.519
#2	1.0351	1.0440	1.0648	1.520
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3423.8**	**3343.2**	**66828.**	**5594.4**
Stddev	7.0	10.9	3.	4.8
%RSD	.20413	.32523	.00498	.08524
#1	3428.7	3350.9	66831.	5591.0
#2	3418.8	3335.5	66826.	5597.8

Sample Name: CCB-7026764 Acquired: 6/10/2022 3:43:45 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**-.03224**	**.00083**	**-.00024**	**.00003**
Stddev	.00010	.02241	.00016	.00062	.00000
%RSD	28.656	69.515	19.629	254.57	11.832
#1	-.00029	-.01639	.00095	.00019	.00003
#2	-.00044	-.04809	.00072	-.00068	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00143**	**-.00005**	**-.0222**	**.00007**
Stddev	.00009	.00111	.00003	.0042	.00009
%RSD	115.81	77.624	71.307	18.93	128.82
#1	.00014	.00221	-.00002	-.0192	.00013
#2	.00001	.00064	-.00007	-.0252	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00058**	**.00896**	**.02259**	**-.00026**
Stddev	.00033	.00042	.00007	.02055	.00160
%RSD	104.36	73.094	.75370	90.989	625.79
#1	-.00008	.00028	.00901	.00806	.00088
#2	-.00056	.00088	.00892	.03712	-.00139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 3:43:45 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00114**	**.00007**	**.00234**	**-.01052**	**.00017**
Stddev	.00335	.00002	.00073	.00215	.00001
%RSD	292.46	33.733	31.067	20.388	3.9474
#1	-.00122	.00009	.00182	-.00901	.00017
#2	.00351	.00005	.00285	-.01204	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00128**	**-.01746**	**-.00176**	**.00470**
Stddev	.00	.00016	.00153	.00063	.00109
%RSD	.0010	12.759	8.7686	35.807	23.133
#1	25.00	-.00116	-.01638	-.00131	.00547
#2	25.00	-.00139	-.01854	-.00220	.00393
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00697**	**-.00017**	**.00001**	**1.003**	**.00057**
Stddev	.02515	.00011	.00000	.006	.00015
%RSD	360.79	67.110	54.558	.5628	25.920
#1	-.02475	-.00025	.00000	1.007	.00047
#2	.01081	-.00009	.00001	.9986	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 3:43:45 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00079**	**-.00017**	**-.00009**	**.9992**
Stddev	.00030	.00004	.00002	.0007
%RSD	38.415	23.080	27.601	.0722
#1	.00101	-.00014	-.00011	.9987
#2	.00058	-.00020	-.00007	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3986.4**	**3497.4**	**71217.**	**5766.9**
Stddev	3.1	5.4	1.	8.2
%RSD	.07807	.15452	.00152	.14240
#1	3988.6	3501.2	71218.	5772.7
#2	3984.2	3493.6	71216.	5761.1

Sample Name: CCVL-7019501 Acquired: 6/10/2022 3:47:39 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00536**	**.18382**	**.01262**	**.01865**	**.00208**
Stddev	.00024	.00185	.00129	.00028	.00000
%RSD	4.4771	1.0052	10.254	1.5049	.16761
#1	.00553	.18252	.01170	.01846	.00208
#2	.00519	.18513	.01353	.01885	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**.51027**	**.00193**	**-.0286**	**.00368**
Stddev	.00006	.00112	.00015	.0142	.00002
%RSD	3.0483	.22028	7.6545	49.73	.58189
#1	.00201	.50948	.00183	-.0387	.00366
#2	.00210	.51107	.00203	-.0186	.00369
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00363**	**.01085**	**.05048**	**.48541**	**.02910**
Stddev	.00014	.00023	.00010	.00056	.00142
%RSD	3.9269	2.1464	.20343	.11521	4.8920
#1	.00353	.01101	.05041	.48502	.02809
#2	.00373	.01068	.05055	.48581	.03010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7019501 Acquired: 6/10/2022 3:47:39 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19767**	**.00301**	**.00938**	**.95777**	**.00952**
Stddev	.00010	.00001	.00021	.01029	.00014
%RSD	.05133	.42919	2.2554	1.0744	1.4342
#1	.19760	.00300	.00953	.96504	.00962
#2	.19774	.00302	.00923	.95049	.00942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00927**	**.17034**	**.01771**	**.02110**
Stddev	.00	.00036	.00402	.00047	.00107
%RSD	.0012	3.8944	2.3610	2.6425	5.0580
#1	25.00	.00953	.17318	.01737	.02034
#2	25.00	.00902	.16749	.01804	.02185
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45857**	**.00827**	**.00504**	F **.9999**	**.00438**
Stddev	.01500	.00014	.00001	.0029	.00042
%RSD	3.2704	1.6913	.27965	.2878	9.6737
#1	.46917	.00837	.00503	1.002	.00468
#2	.44796	.00817	.00505	.9979	.00408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7019501 Acquired: 6/10/2022 3:47:39 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02050**	**.00450**	**.00713**	F **.9996**
Stddev	.00094	.00006	.00003	.0002
%RSD	4.5788	1.4392	.37952	.0193
#1	.01984	.00455	.00711	.9994
#2	.02116	.00446	.00715	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3998.8**	**3530.5**	**71692.**	**5747.1**
Stddev	.8	.8	18.	47.9
%RSD	.01924	.02345	.02475	.83407
#1	3999.4	3529.9	71679.	5781.0
#2	3998.3	3531.1	71705.	5713.3

Sample Name: CCV-7024752 Acquired: 6/10/2022 3:51:33 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0458**	**52.059**	**1.0370**	**1.0510**	**1.0108**
Stddev	.0003	.013	.0017	.0014	.0006
%RSD	.02475	.02539	.16233	.13812	.05980
#1	1.0460	52.050	1.0358	1.0500	1.0104
#2	1.0456	52.069	1.0382	1.0521	1.0112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0261**	**52.516**	**1.0362**	**1.027**	**1.0208**
Stddev	.0001	.039	.0004	.012	.0013
%RSD	.01014	.07441	.03828	1.178	.12247
#1	1.0262	52.489	1.0365	1.019	1.0199
#2	1.0261	52.544	1.0359	1.036	1.0217
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0515**	**1.0470**	**53.196**	**52.775**	**1.0342**
Stddev	.0008	.0018	.110	.161	.0005
%RSD	.07671	.17181	.20752	.30509	.04515
#1	1.0521	1.0457	53.118	52.661	1.0338
#2	1.0510	1.0483	53.275	52.889	1.0345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 3:51:33 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**53.152**	**1.0583**	**1.0415**	**51.875**	**1.0392**
Stddev	.047	.0009	.0027	.035	.0002
%RSD	.08750	.08226	.25928	.06837	.01888
#1	53.185	1.0577	1.0434	51.850	1.0391
#2	53.119	1.0589	1.0396	51.900	1.0393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.02**	**1.0361**	**26.031**	**1.0456**	**1.0445**
Stddev	.00	.0038	.010	.0019	.0011
%RSD	.0019	.36989	.03885	.18178	.10952
#1	38.02	1.0334	26.024	1.0442	1.0437
#2	38.02	1.0388	26.038	1.0469	1.0453
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.439**	**1.0270**	**1.0340**	**1.519**	**1.0440**
Stddev	.027	.0003	.0010	.004	.0005
%RSD	.25564	.03292	.10151	.2568	.04584
#1	10.420	1.0268	1.0348	1.522	1.0444
#2	10.458	1.0272	1.0333	1.517	1.0437
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 3:51:33 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0454**	**1.0554**	**1.0666**	**1.524**
Stddev	.0014	.0004	.0026	.001
%RSD	.13063	.03753	.24580	.0385
#1	1.0444	1.0551	1.0648	1.523
#2	1.0463	1.0556	1.0685	1.524
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3403.3**	**3314.7**	**66390.**	**5560.0**
Stddev	4.0	.4	38.	1.4
%RSD	.11667	.01337	.05740	.02501
#1	3406.1	3315.0	66363.	5561.0
#2	3400.5	3314.4	66417.	5559.0

Sample Name: CCB-7026764 Acquired: 6/10/2022 3:55:13 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**-.02922**	**-.00050**	**-.00011**	**.00004**
Stddev	.00055	.01920	.00027	.00002	.00001
%RSD	75.566	65.723	53.677	21.402	34.921
#1	-.00034	-.04279	-.00070	-.00013	.00003
#2	-.00113	-.01564	-.00031	-.00010	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00353**	**-.00014**	**-.0405**	**.00002**
Stddev	.00003	.00090	.00018	.0258	.00001
%RSD	43.912	25.429	127.63	63.81	50.705
#1	.00005	.00289	-.00001	-.0222	.00001
#2	.00010	.00416	-.00026	-.0587	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.00080**	**.00759**	**.06683**	**-.00009**
Stddev	.00027	.00029	.00012	.00966	.00029
%RSD	62.466	35.559	1.5441	14.459	333.48
#1	-.00024	.00060	.00767	.06000	.00012
#2	-.00063	.00101	.00751	.07366	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 3:55:13 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.00003**	**.00204**	**-.00988**	**-.00002**
Stddev	.00036	.00003	.00029	.00893	.00010
%RSD	174.87	86.860	14.339	90.317	466.49
#1	.00005	.00005	.00183	-.01619	.00005
#2	-.00046	.00001	.00224	-.00357	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00062**	**-.01903**	**-.00157**	**.00333**
Stddev	.00	.00010	.00037	.00076	.00083
%RSD	.0011	16.303	1.9307	48.337	24.855
#1	25.00	.00069	-.01929	-.00210	.00275
#2	25.00	.00055	-.01877	-.00103	.00392
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00408**	**-.00017**	**.00001**	**1.003**	**.00035**
Stddev	.01775	.00006	.00006	.000	.00009
%RSD	434.77	35.428	961.44	.0377	27.036
#1	-.01663	-.00021	.00005	1.004	.00041
#2	.00847	-.00013	-.00004	1.003	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 3:55:13 Type: QC
Method: ICAP1 Feb 2022(v109) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00036**	**-.00037**	**.00004**	**.9989**
Stddev	.00085	.00002	.00026	.0003
%RSD	238.81	5.5047	684.02	.0324
#1	-.00025	-.00036	-.00015	.9987
#2	.00096	-.00039	.00022	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4030.3**	**3531.3**	**71755.**	**5740.3**
Stddev	6.9	3.1	56.	15.8
%RSD	.17048	.08822	.07800	.27514
#1	4025.5	3529.1	71715.	5751.5
#2	4035.2	3533.5	71795.	5729.2

Run File: I1061022B Instrument: ICAP1

Analyst: BLH Data Review: 6/13/22 BLH

Spikes Ids:6909430(W1), 6893463(W2),6902374(Sn), 6917474(Ag),6917504(Si), 6842082(TCLP), 6917511(S)
Pipette IDs: 3/22/22-(1-11)
Internal Standard:7014567

Seq#	Run File ID	Sample ID	Date / Time	Type
1	I1061022B	ICIS-7026764	6/10/2022 12:06:36PM	Standard
2	I1061022B	IC-7028546	6/10/2022 12:10:29PM	Standard
3	I1061022B	IC-7024752	6/10/2022 12:14:22PM	Standard
4	I1061022B	IC-7019492	6/10/2022 12:18:02PM	Standard
5	I1061022B	ICV-7017592	6/10/2022 12:21:41PM	QC
6	I1061022B	ICB-7026764	6/10/2022 12:25:22PM	QC
7	I1061022B	ICVL-7028546	6/10/2022 12:29:15PM	QC
8	I1061022B	ICSA-7017591	6/10/2022 12:33:08PM	QC
9	I1061022B	ICSAB-7019499	6/10/2022 12:37:05PM	QC
10	I1061022B	ICEX1	6/10/2022 12:40:59PM	Unknown
11	I1061022B	ICEX2	6/10/2022 12:45:02PM	Unknown
12	I1061022B	ICEX3	6/10/2022 12:48:58PM	Unknown
13	I1061022B	ICEX4	6/10/2022 12:52:58PM	Unknown
14	I1061022B	ICEX5	6/10/2022 12:56:48PM	Unknown
15	I1061022B	CCV-7024752	6/10/2022 1:00:41PM	QC
16	I1061022B	CCB-7026764	6/10/2022 1:04:21PM	QC
17	I1061022B	CCVL-7028546	6/10/2022 1:08:15PM	QC
18	I1061022B	LB 480-629221/1-B	6/10/2022 1:12:07PM	Unknown
19	I1061022B	MB 480-629399/2-A	6/10/2022 1:16:06PM	Unknown
20	I1061022B	LCS 480-629399/3-A	6/10/2022 1:20:00PM	Unknown
21	I1061022B	480-198744-A-1-B	6/10/2022 1:23:54PM	Unknown
22	I1061022B	198754-A-1-A@1000	6/10/2022 1:27:48PM	Unknown
23	I1061022B	MB 480-628589/1-A	6/10/2022 1:31:40PM	Unknown
24	I1061022B	LCS 480-628589/2-A	6/10/2022 1:35:33PM	Unknown
25	I1061022B	480-198723-D-1-A	6/10/2022 1:39:14PM	Unknown
26	I1061022B	480-198719-E-1-A	6/10/2022 1:43:04PM	Unknown
27	I1061022B	CCV-7024752	6/10/2022 1:46:55PM	QC
28	I1061022B	CCB-7026764	6/10/2022 1:50:35PM	QC
29	I1061022B	CCVL-7028546	6/10/2022 1:54:29PM	QC
30	I1061022B	480-198720-D-1-A	6/10/2022 1:58:22PM	Unknown
31	I1061022B	480-198720-D-2-A	6/10/2022 2:02:19PM	Unknown
32	I1061022B	480-198720-D-3-A	6/10/2022 2:06:07PM	Unknown
33	I1061022B	480-198720-D-4-A	6/10/2022 2:09:55PM	Unknown
34	I1061022B	CCV-7024752	6/10/2022 2:47:50PM	QC
35	I1061022B	CCB-7019497	6/10/2022 2:51:30PM	QC
36	I1061022B	CCVL-7028546	6/10/2022 2:59:22PM	QC
37	I1061022B	480-198720-D-1-A	6/10/2022 3:03:15PM	Unknown
38	I1061022B	480-198720-D-2-A	6/10/2022 3:07:13PM	Unknown
39	I1061022B	480-198720-D-3-A	6/10/2022 3:11:02PM	Unknown
40	I1061022B	480-198720-D-4-A	6/10/2022 3:14:51PM	Unknown
41	I1061022B	197352-1@50 tot	6/10/2022 3:18:39PM	Unknown
42	I1061022B	197352-2@50 tot	6/10/2022 3:22:44PM	Unknown

43	I1061022B	MB 480-628526/1-A	6/10/2022	3:26:51PM	Unknown
44	I1061022B	MB 480-629261/1-A	6/10/2022	3:30:44PM	Unknown
45	I1061022B	LCS 480-629261/2-A	6/10/2022	3:34:38PM	Unknown
46	I1061022B	CCV-7024752	6/10/2022	3:38:20PM	QC
47	I1061022B	CCB-7026764	6/10/2022	3:41:59PM	QC
48	I1061022B	CCVL-7028546	6/10/2022	3:45:53PM	QC
49	I1061022B	480-198760-A-1-A	6/10/2022	3:49:46PM	Unknown
50	I1061022B	480-198760-A-2-A	6/10/2022	3:53:36PM	Unknown
51	I1061022B	480-198760-A-2-ASD@5	6/10/2022	3:57:27PM	Unknown
52	I1061022B	480-198760-A-2-APDS	6/10/2022	4:01:18PM	Unknown
53	I1061022B	480-198760-A-2-B MS	6/10/2022	4:05:04PM	Unknown
54	I1061022B	480-198760-A-2-C MSD	6/10/2022	4:08:51PM	Unknown
55	I1061022B	480-198760-A-3-A	6/10/2022	4:12:37PM	Unknown
56	I1061022B	480-198760-A-4-A	6/10/2022	4:16:28PM	Unknown
57	I1061022B	480-198760-A-5-A	6/10/2022	4:20:19PM	Unknown
58	I1061022B	CCV-7024752	6/10/2022	4:24:10PM	QC
59	I1061022B	CCB-7026764	6/10/2022	4:27:51PM	QC
60	I1061022B	CCVL-7028546	6/10/2022	4:31:45PM	QC
61	I1061022B	480-198760-A-6-A	6/10/2022	4:35:37PM	Unknown
62	I1061022B	480-198760-A-7-A	6/10/2022	4:39:29PM	Unknown
63	I1061022B	480-198760-A-8-A	6/10/2022	4:43:19PM	Unknown
64	I1061022B	480-198760-A-9-A	6/10/2022	4:47:09PM	Unknown
65	I1061022B	480-198760-A-10-A	6/10/2022	4:50:58PM	Unknown
66	I1061022B	480-198760-A-11-A	6/10/2022	4:54:46PM	Unknown
67	I1061022B	480-198760-A-12-A	6/10/2022	4:58:35PM	Unknown
68	I1061022B	480-198760-A-13-A	6/10/2022	5:02:22PM	Unknown
69	I1061022B	480-198760-A-14-A	6/10/2022	5:06:13PM	Unknown
70	I1061022B	CCV-7024752	6/10/2022	5:10:02PM	QC
71	I1061022B	CCB-7026764	6/10/2022	5:13:42PM	QC
72	I1061022B	CCVL-7028546	6/10/2022	5:17:35PM	QC
73	I1061022B	MB 480-629412/1-A	6/10/2022	5:21:28PM	Unknown
74	I1061022B	LCS 480-629412/2-A	6/10/2022	5:25:21PM	Unknown
75	I1061022B	240-167703-O-1-A	6/10/2022	5:29:02PM	Unknown
76	I1061022B	240-167703-O-2-A	6/10/2022	5:32:51PM	Unknown
77	I1061022B	240-167703-O-3-A	6/10/2022	5:36:39PM	Unknown
78	I1061022B	240-167703-O-4-A	6/10/2022	5:40:27PM	Unknown
79	I1061022B	240-167703-AQ-5-A	6/10/2022	5:44:19PM	Unknown
80	I1061022B	167703-AQ-5-Asd@5	6/10/2022	5:48:08PM	Unknown
81	I1061022B	167703-AQ-5-APDS	6/10/2022	5:51:59PM	Unknown
82	I1061022B	CCV-7024752	6/10/2022	5:55:41PM	QC
83	I1061022B	CCB-7026764	6/10/2022	5:59:21PM	QC
84	I1061022B	CCVL-7028546	6/10/2022	6:03:16PM	QC
85	I1061022B	240-167703-AR-5-A MS	6/10/2022	6:07:08PM	Unknown
86	I1061022B	167703-AS-5-A MSD	6/10/2022	6:10:48PM	Unknown
87	I1061022B	240-167703-O-6-A	6/10/2022	6:14:29PM	Unknown
88	I1061022B	240-167703-O-8-A	6/10/2022	6:18:22PM	Unknown
89	I1061022B	240-167703-O-9-A	6/10/2022	6:22:18PM	Unknown
90	I1061022B	240-167703-O-10-A	6/10/2022	6:26:08PM	Unknown
91	I1061022B	240-167703-O-11-A	6/10/2022	6:29:58PM	Unknown
92	I1061022B	620-4903-J-1-A	6/10/2022	6:33:47PM	Unknown
93	I1061022B	620-4903-J-2-A	6/10/2022	6:37:36PM	Unknown
94	I1061022B	CCV-7024752	6/10/2022	6:41:26PM	QC

95	I1061022B	CCB-7026764	6/10/2022	6:45:06PM	QC
96	I1061022B	CCVL-7028546	6/10/2022	6:49:01PM	QC
97	I1061022B	620-4903-J-3-A	6/10/2022	6:52:53PM	Unknown
98	I1061022B	620-4903-J-4-A	6/10/2022	6:56:40PM	Unknown
99	I1061022B	620-4903-J-5-A	6/10/2022	7:00:30PM	Unknown
100	I1061022B	620-4903-J-6-A	6/10/2022	7:04:20PM	Unknown
101	I1061022B	620-4938-J-1-A	6/10/2022	7:08:11PM	Unknown
102	I1061022B	620-4938-J-2-A	6/10/2022	7:12:03PM	Unknown
103	I1061022B	620-4938-J-3-A	6/10/2022	7:15:54PM	Unknown
104	I1061022B	MB 480-629474/1-A	6/10/2022	7:19:41PM	Unknown
105	I1061022B	LCSSRM 480-629474/2-	6/10/2022	7:23:34PM	Unknown
106	I1061022B	CCV-7024752	6/10/2022	7:27:15PM	QC
107	I1061022B	CCB-7026764	6/10/2022	7:30:55PM	QC
108	I1061022B	CCVL-7028546	6/10/2022	7:34:50PM	QC
109	I1061022B	LCDSRM 480-629474/3-	6/10/2022	7:38:42PM	Unknown
110	I1061022B	480-198096-F-5-A	6/10/2022	7:42:21PM	Unknown
111	I1061022B	480-198096-D-6-A	6/10/2022	7:46:14PM	Unknown
112	I1061022B	480-198096-D-6-Asd@5	6/10/2022	7:50:02PM	Unknown
113	I1061022B	480-198096-D-6-APDS	6/10/2022	7:53:51PM	Unknown
114	I1061022B	480-198096-D-6-B MS	6/10/2022	7:57:33PM	Unknown
115	I1061022B	480-198096-D-6-C MSD	6/10/2022	8:01:21PM	Unknown
116	I1061022B	480-198138-E-1-B	6/10/2022	8:05:04PM	Unknown
117	I1061022B	480-198138-E-2-B	6/10/2022	8:08:52PM	Unknown
118	I1061022B	CCV-7024752	6/10/2022	8:12:41PM	QC
119	I1061022B	CCB-7026764	6/10/2022	8:16:21PM	QC
120	I1061022B	CCVL-7028546	6/10/2022	8:20:16PM	QC
121	I1061022B	480-198138-F-9-A	6/10/2022	8:24:08PM	Unknown
122	I1061022B	480-198138-D-10-B	6/10/2022	8:28:06PM	Unknown
123	I1061022B	480-198174-G-8-D	6/10/2022	8:31:51PM	Unknown
124	I1061022B	480-198658-A-14-A	6/10/2022	8:35:37PM	Unknown
125	I1061022B	480-198728-A-1-B	6/10/2022	8:39:24PM	Unknown
126	I1061022B	480-198691-A-1-C	6/10/2022	8:43:18PM	Unknown
127	I1061022B	480-198691-A-2-C	6/10/2022	8:47:11PM	Unknown
128	I1061022B	480-198691-A-3-G	6/10/2022	8:51:03PM	Unknown
129	I1061022B	MB 480-629477/1-A	6/10/2022	8:54:56PM	Unknown
130	I1061022B	CCV-7024752	6/10/2022	8:58:51PM	QC
131	I1061022B	CCB-7026764	6/10/2022	9:02:31PM	QC
132	I1061022B	CCVL-7028546	6/10/2022	9:06:25PM	QC
133	I1061022B	LCSSRM 480-629477/2-	6/10/2022	9:10:17PM	Unknown
134	I1061022B	480-198548-A-1-G	6/10/2022	9:13:57PM	Unknown
135	I1061022B	480-198548-A-1-Gsd@5	6/10/2022	9:17:53PM	Unknown
136	I1061022B	480-198548-A-1-GPDS	6/10/2022	9:21:47PM	Unknown
137	I1061022B	480-198548-A-1-H MS	6/10/2022	9:25:41PM	Unknown
138	I1061022B	480-198548-A-1-I MSD	6/10/2022	9:29:35PM	Unknown
139	I1061022B	LB 480-629421/1-B	6/10/2022	9:33:28PM	Unknown
140	I1061022B	MB 480-629583/2-A	6/10/2022	9:37:27PM	Unknown
141	I1061022B	LCS 480-629583/3-A	6/10/2022	9:41:20PM	Unknown
142	I1061022B	CCV-7024752	6/10/2022	9:45:15PM	QC
143	I1061022B	CCB-7026764	6/10/2022	9:48:56PM	QC
144	I1061022B	CCVL-7028546	6/10/2022	9:52:50PM	QC
145	I1061022B	480-198691-A-3-I	6/10/2022	9:56:42PM	Unknown
146	I1061022B	480-198745-A-1-D	6/10/2022	10:00:36PM	Unknown

147	I1061022B	480-198762-A-1-C	6/10/2022	10:04:34PM	Unknown
148	I1061022B	480-198762-A-2-K	6/10/2022	10:08:44PM	Unknown
149	I1061022B	480-198762-A-2-Ksd@5	6/10/2022	10:12:49PM	Unknown
150	I1061022B	480-198762-A-2-KPDS	6/10/2022	10:16:44PM	Unknown
151	I1061022B	480-198762-A-2-L MS	6/10/2022	10:20:41PM	Unknown
152	I1061022B	480-198762-A-2-M MSD	6/10/2022	10:24:39PM	Unknown
153	I1061022B	480-198762-A-3-C	6/10/2022	10:28:36PM	Unknown
154	I1061022B	CCV-7024752	6/10/2022	10:32:34PM	QC
155	I1061022B	CCB-7026764	6/10/2022	10:36:14PM	QC
156	I1061022B	CCVL-7028546	6/10/2022	10:40:08PM	QC
157	I1061022B	MB 480-629588/1-A	6/10/2022	10:44:00PM	Unknown
158	I1061022B	LCS 480-629588/2-A	6/10/2022	10:47:53PM	Unknown
159	I1061022B	480-198580-E-1-A	6/10/2022	10:51:34PM	Unknown
160	I1061022B	480-198580-E-1-Asd@5	6/10/2022	10:55:24PM	Unknown
161	I1061022B	480-198580-E-1-APDS	6/10/2022	10:59:15PM	Unknown
162	I1061022B	480-198580-E-1-B MS	6/10/2022	11:02:55PM	Unknown
163	I1061022B	480-198580-E-1-C MSD	6/10/2022	11:06:37PM	Unknown
164	I1061022B	198727-3 tot	6/10/2022	11:10:17PM	Unknown
165	I1061022B	CCVL-7028546	6/10/2022	11:14:08PM	QC
166	I1061022B	CCV-7024752	6/10/2022	11:18:02PM	QC
167	I1061022B	CCB-7026764	6/10/2022	11:21:42PM	QC
168	I1061022B	CCV-7024752	6/10/2022	11:25:36PM	QC
169	I1061022B	CCB-7026764	6/10/2022	11:29:15PM	QC

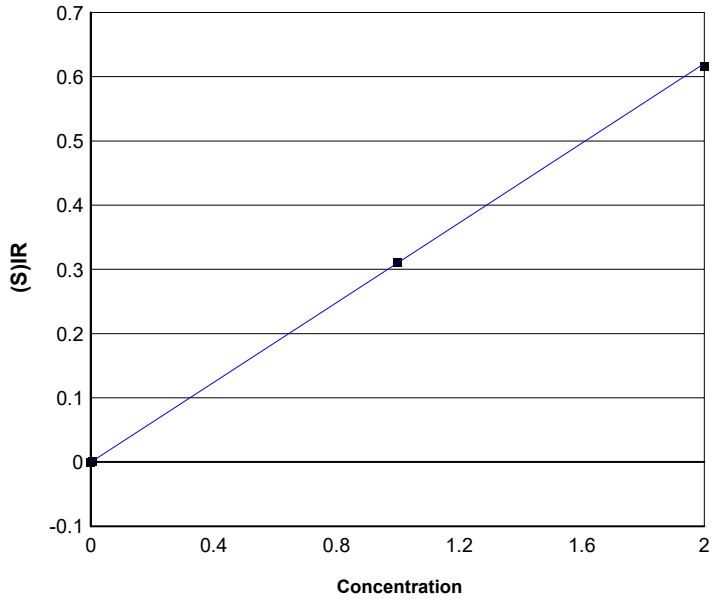
I1061022B

Author: BLH

Published: 6/13/2022 9:00:25AM

Instrument Name: ICAP1 Serial Number: 20094603

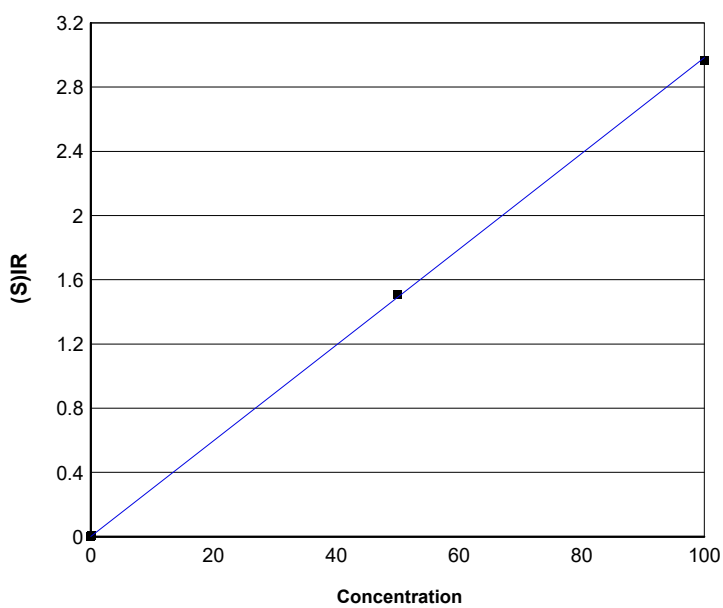
Method Name: ICAP1 Feb 2022 (110)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.00021880
A1 (Gain):	0.31024
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

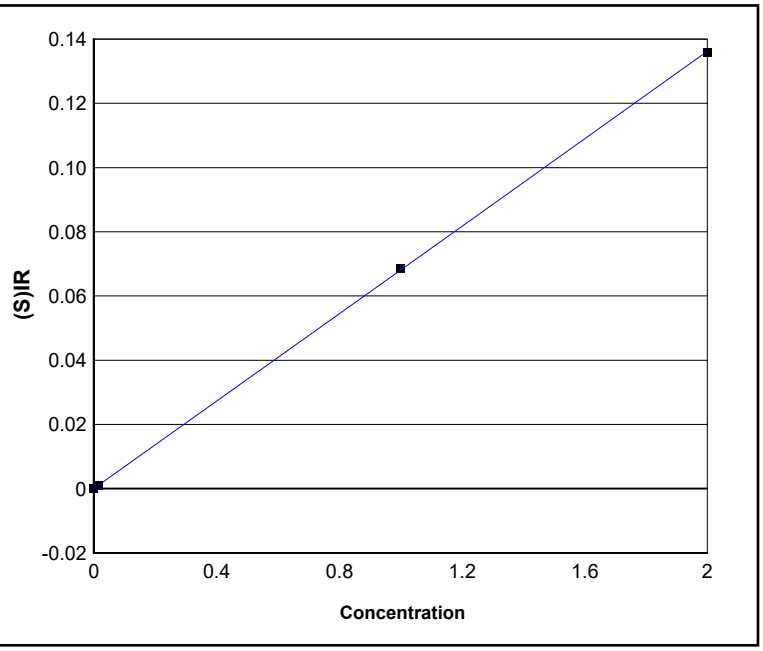
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000007465	0.0000007465	0.00000	-0.00021856	0.00011667	1
IC-7028546	0.0060000	0.0052325	-0.00076747	-12.791	0.0014047	0.000081786	1
IC-7024752	1.0000	1.0062	0.0062171	0.62171	0.31079	0.0012990	1
IC-7019492	2.0000	1.9946	-0.0054467	-0.27233	0.61625	0.00088005	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.00097767
A1 (Gain):	0.029817
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

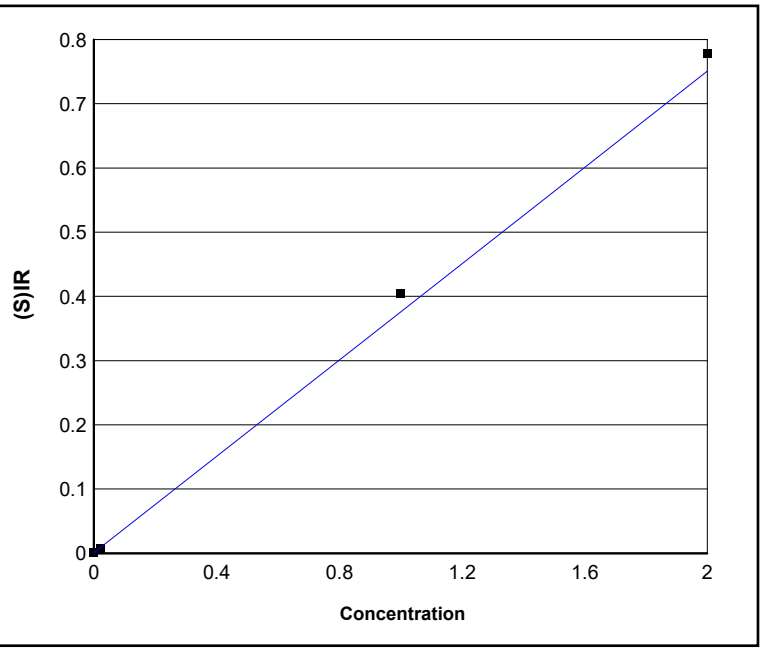
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000034651	0.0000034651	0.00000	0.00097777	0.000041110	1
IC-7028546	0.20000	0.19538	-0.0046247	-2.3123	0.0068032	0.00087978	1
IC-7024752	50.000	50.575	0.57517	1.1503	1.5090	0.0021257	1
IC-7019492	100.00	99.429	-0.57055	-0.57055	2.9657	0.0033302	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	-0.0000034089
A1 (Gain):	0.068097
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

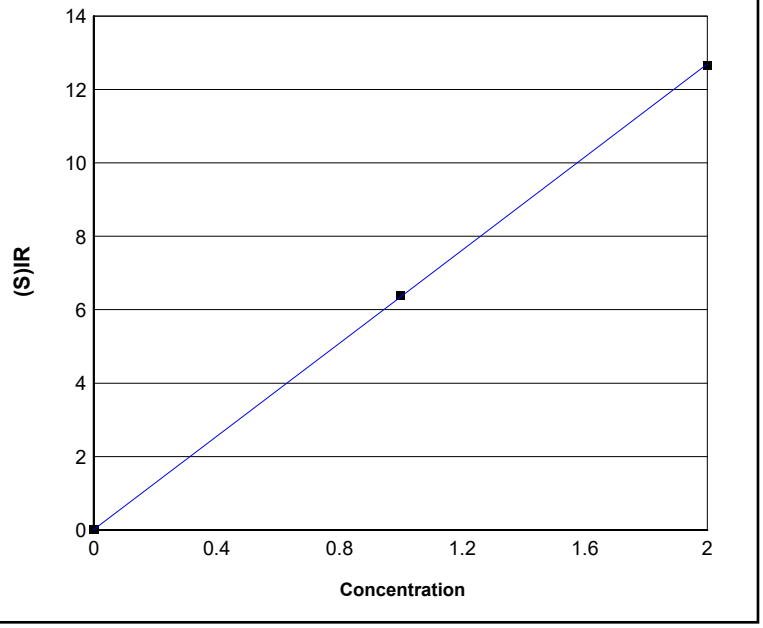
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000017712	0.0000017712	0.00000	-0.0000032883	0.000086383	1
IC-7028546	0.015000	0.013168	-0.0018323	-12.215	0.00089339	0.000014886	1
IC-7024752	1.0000	1.0063	0.0063134	0.63134	0.068554	0.0000009371	1
IC-7019492	2.0000	1.9955	-0.0044817	-0.22408	0.13595	0.00014204	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99982
A0 (Offset):	0.0010223
A1 (Gain):	0.37488
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

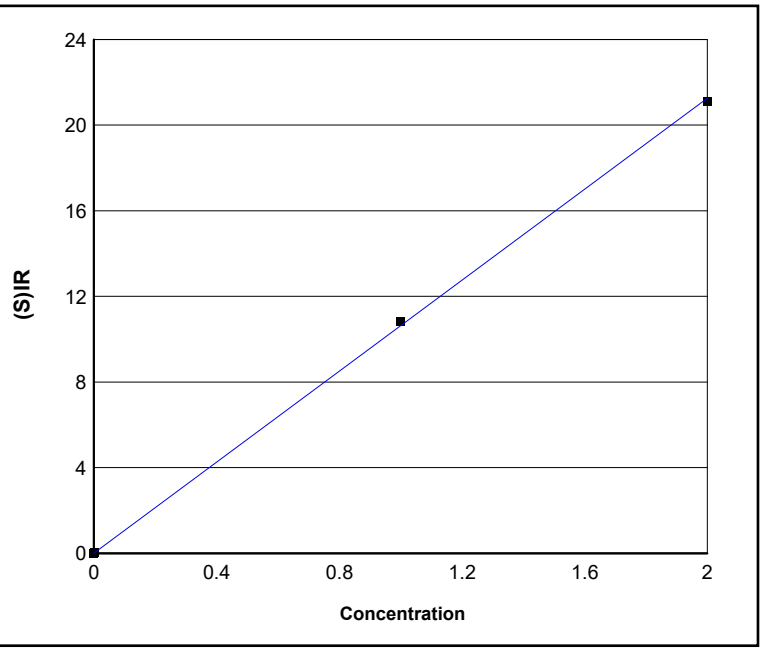
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000010408	0.0000010408	0.00000	0.0010227	0.00015710	1
IC-7028546	0.020000	0.018671	-0.0013287	-6.6433	0.0082050	0.000056191	1
IC-7024752	1.0000	1.0275	0.027488	2.7488	0.40453	0.0012171	1
IC-7019492	2.0000	1.9738	-0.026190	-1.3095	0.77760	0.00066384	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.010396
A1 (Gain):	6.3429
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

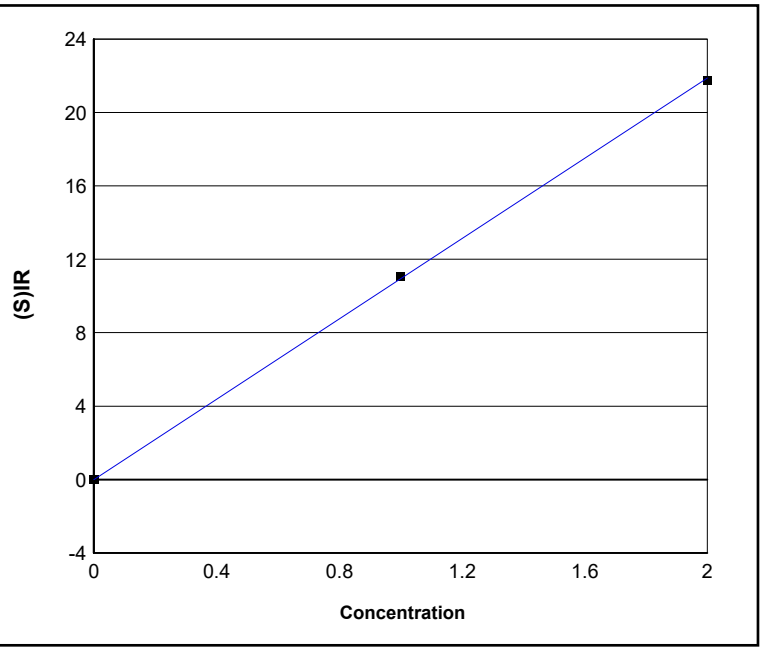
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000170	0.0000000170	0.00000	0.010396	0.00053174	1
IC-7028546	0.0020000	0.0019782	-0.000021813	-1.0907	0.022943	0.00085357	1
IC-7024752	1.0000	1.0047	0.0047460	0.47460	6.3834	0.0085485	1
IC-7019492	2.0000	1.9953	-0.0047241	-0.23621	12.666	0.0024871	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.0021081
A1 (Gain):	10.630
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

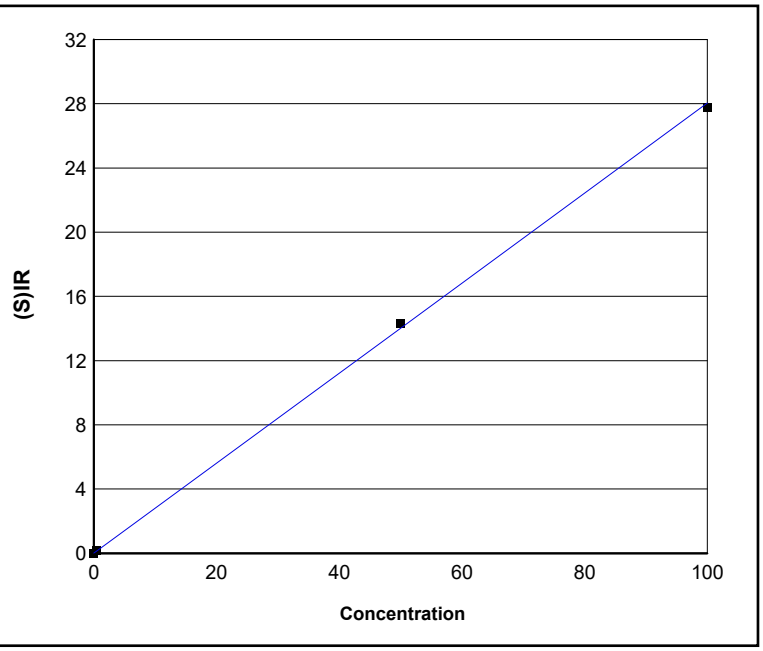
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000695	-0.0000000695	0.00000	0.0021073	0.000063905	1
IC-7028546	0.0020000	0.0020533	0.000053303	2.6652	0.023934	0.000014059	1
IC-7024752	1.0000	1.0162	0.016231	1.6231	10.804	0.085340	1
IC-7019492	2.0000	1.9837	-0.016284	-0.81422	21.089	0.064885	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.0019635
A1 (Gain):	10.944
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

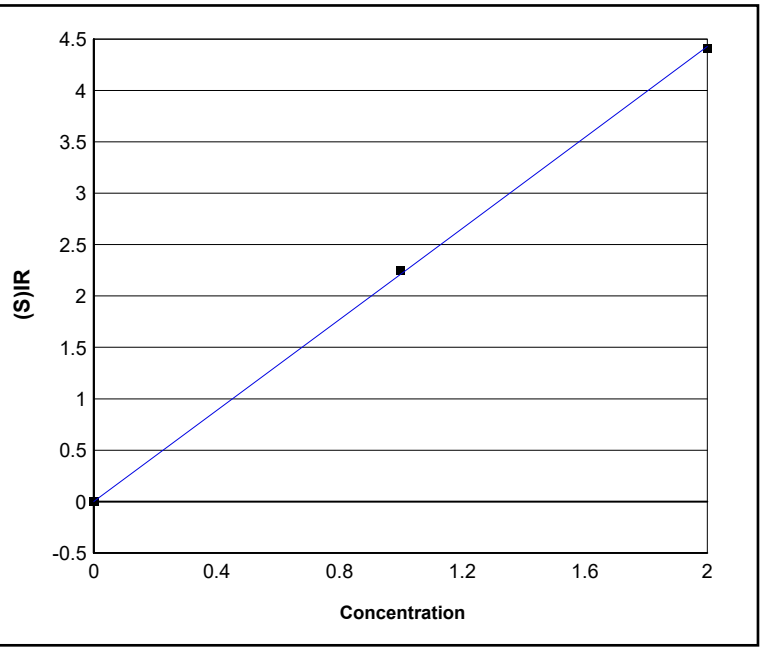
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000052	0.0000000052	0.00000	-0.0019634	0.00015308	1
IC-7028546	0.0020000	0.0019817	-0.000018292	-0.91458	0.019723	0.00036809	1
IC-7024752	1.0000	1.0130	0.013045	1.3045	11.084	0.012401	1
IC-7019492	2.0000	1.9870	-0.013026	-0.65132	21.743	0.0088337	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.015159
A1 (Gain):	0.28028
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

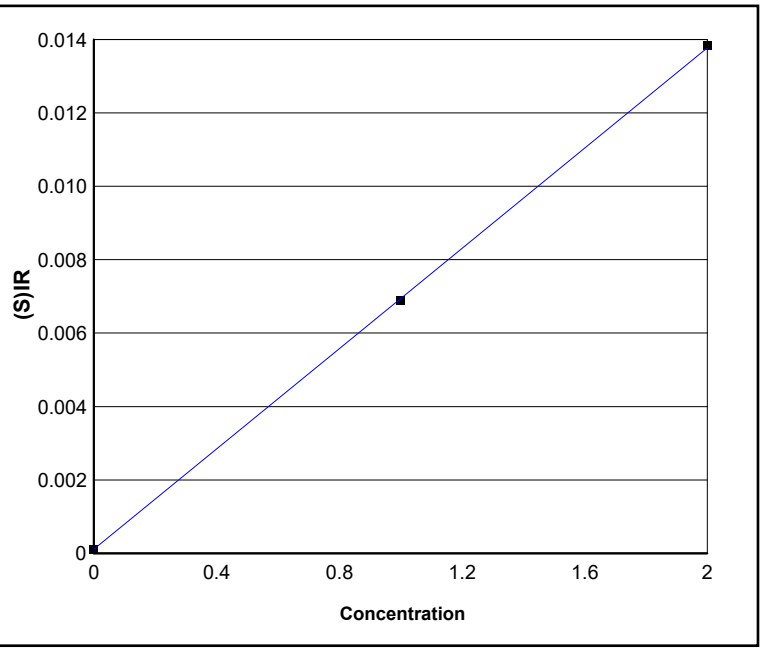
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000071410	0.0000071410	0.00000	0.015161	0.000068780	1
IC-7028546	0.50000	0.48803	-0.011972	-2.3943	0.15194	0.00021784	1
IC-7024752	50.000	50.954	0.95416	1.9083	14.296	0.020624	1
IC-7019492	100.00	99.058	-0.94219	-0.94219	27.779	0.025426	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.00010101
A1 (Gain):	2.2138
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

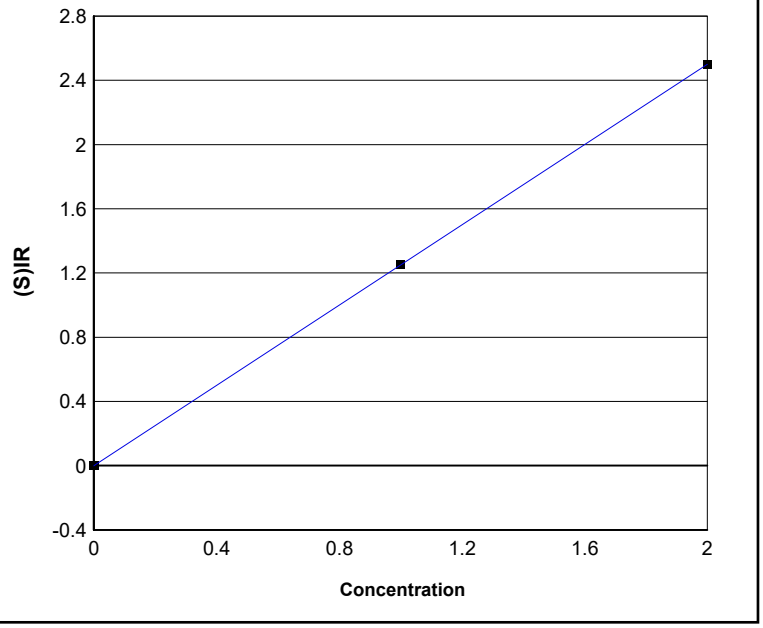
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000001603	0.0000001603	0.00000	-0.00010065	0.00027890	1
IC-7028546	0.0020000	0.0018264	-0.00017357	-8.6783	0.0040027	0.000090155	1
IC-7024752	1.0000	1.0131	0.013063	1.3063	2.2472	0.0013259	1
IC-7019492	2.0000	1.9871	-0.012887	-0.64436	4.4080	0.0025996	1



Element Name:	Ce
Element Wavelength:	Ce 404.076 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	1.0000
A0 (Offset):	0.0001073
A1 (Gain):	0.006834
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

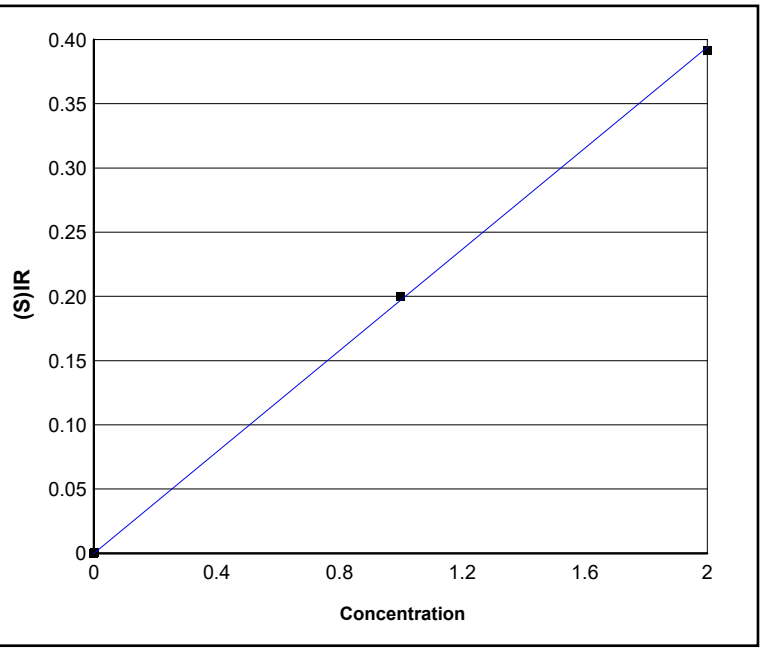
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000	0.000003876	0.000003876	0.0000	0.0001074	0.001483	1
IC-7019492	2.000	2.008	0.007752	0.3876	0.01383	0.0004953	1
IC-7024752	1.000	0.9922	-0.007752	-0.7752	0.006889	0.0003685	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00024717
A1 (Gain):	1.2505
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

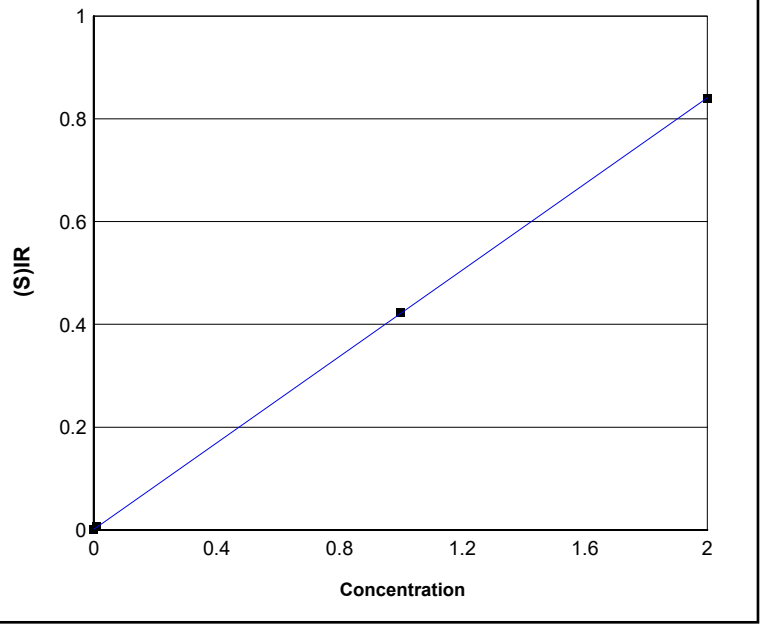
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000002199	0.0000002199	0.00000	-0.00024689	0.000070376	1
IC-7028546	0.0040000	0.0037733	-0.00022666	-5.6666	0.0044689	0.000036672	1
IC-7024752	1.0000	1.0032	0.0031763	0.31763	1.2549	0.00066384	1
IC-7019492	2.0000	1.9971	-0.0029499	-0.14749	2.4985	0.00084718	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.0000092399
A1 (Gain):	0.19707
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

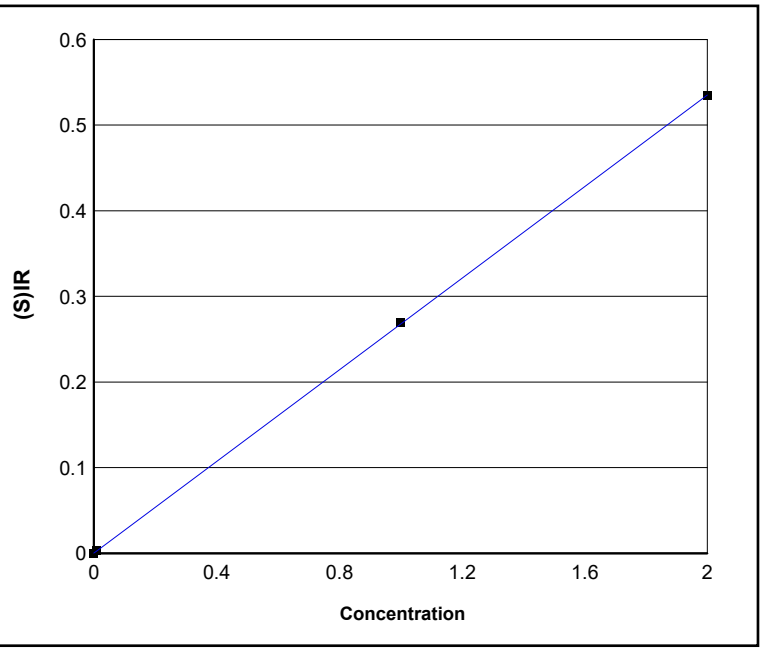
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000001282	0.0000001282	0.00000	0.0000092652	0.0000003465	1
IC-7028546	0.0040000	0.0038414	-0.00015863	-3.9657	0.00076632	0.000034196	1
IC-7024752	1.0000	1.0151	0.015063	1.5063	0.20003	0.00061396	1
IC-7019492	2.0000	1.9851	-0.014904	-0.74520	0.39117	0.00074999	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0015714
A1 (Gain):	0.41988
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

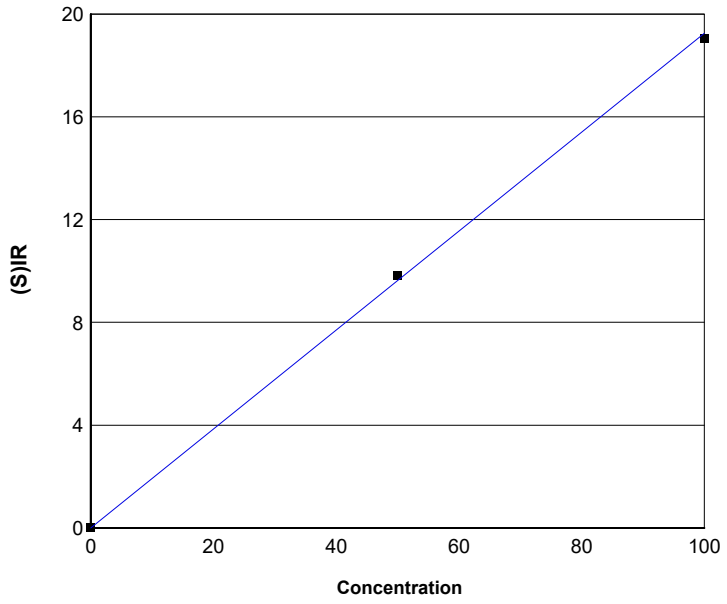
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000001360	-0.0000001360	0.00000	0.0015713	0.000038556	1
IC-7028546	0.010000	0.010111	0.00011086	1.1086	0.0058167	0.00017751	1
IC-7024752	1.0000	1.0051	0.0051381	0.51381	0.42360	0.0012860	1
IC-7019492	2.0000	1.9948	-0.0052490	-0.26245	0.83912	0.00093244	1



Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00024430
A1 (Gain):	0.26750
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

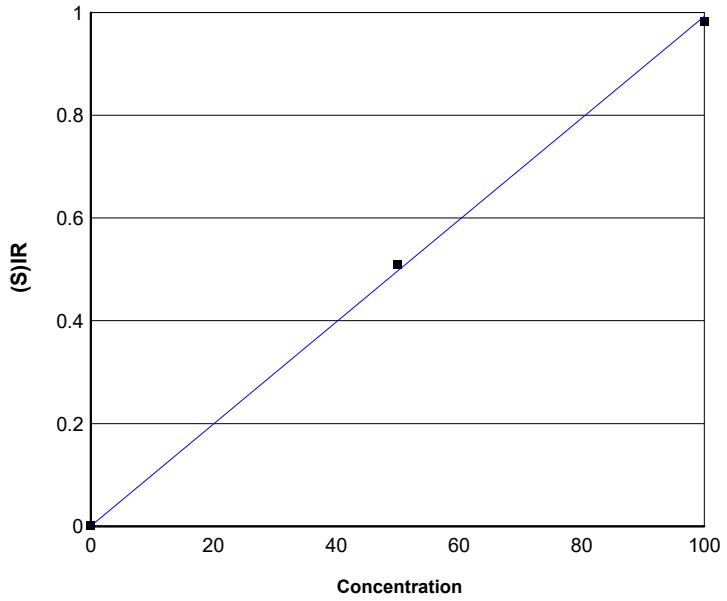
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000001244	0.0000001244	0.00000	0.00024433	0.000020642	1
IC-7028546	0.010000	0.0098519	-0.00014813	-1.4813	0.0028829	0.00022728	1
IC-7024752	1.0000	1.0046	0.0046041	0.46041	0.26929	0.00061570	1
IC-7019492	2.0000	1.9955	-0.0044560	-0.22280	0.53469	0.000073720	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99989
A0 (Offset):	0.00058889
A1 (Gain):	0.19251
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

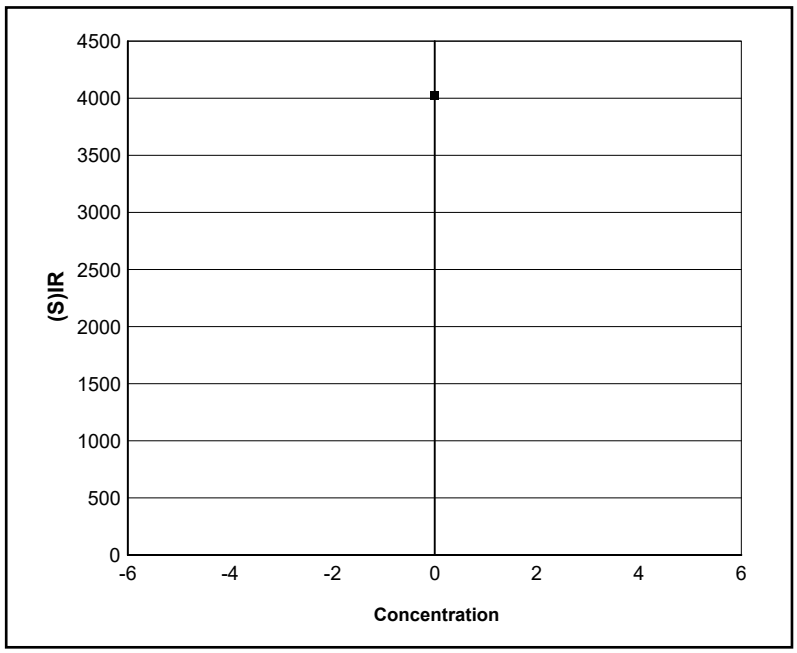
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000006782	-0.0000006782	0.00000	0.00058875	0.000089739	1
IC-7028546	0.050000	0.050164	0.00016414	0.32828	0.010246	0.00040224	1
IC-7024752	50.025	51.054	1.0293	2.0576	9.8289	0.0079460	1
IC-7019492	100.00	98.971	-1.0295	-1.0295	19.053	0.0091579	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99968
A0 (Offset):	0.00086812
A1 (Gain):	0.0099175
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

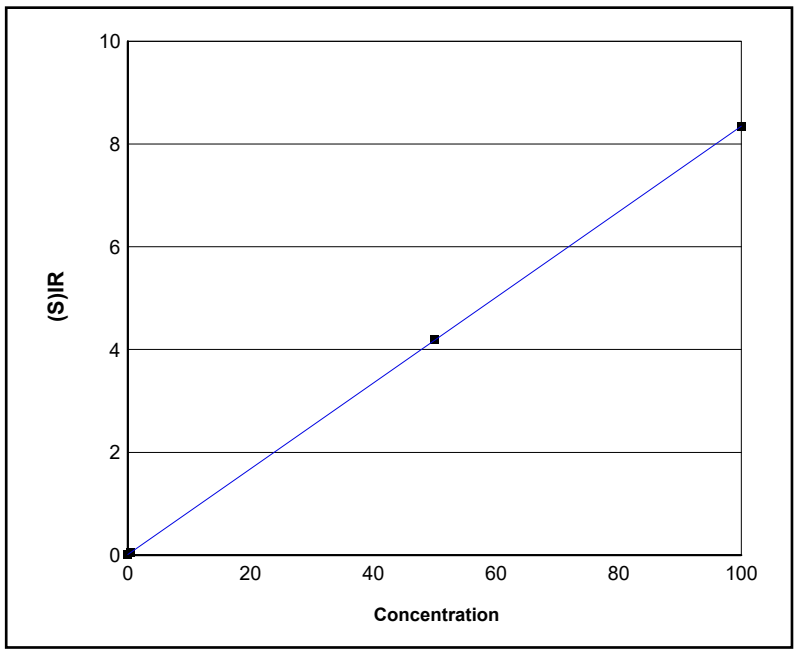
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.000051850	0.000051850	0.00000	0.00086863	0.000025982	1
IC-7028546	0.050000	-0.0024581	-0.052458	-104.92	0.00084374	0.000035424	1
IC-7024752	50.025	51.191	1.1659	2.3307	0.50855	0.0019583	1
IC-7019492	100.00	98.887	-1.1135	-1.1135	0.98157	0.0012810	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:10:26PM
Date of Fit:	6/10/2022 12:10:26PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

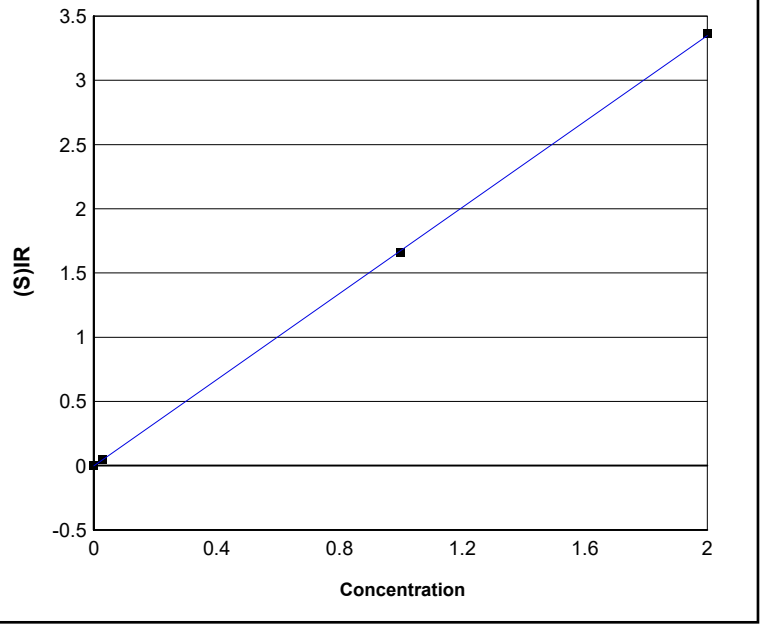
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000			0.0000	4,025	0.9709	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.011357
A1 (Gain):	0.083374
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

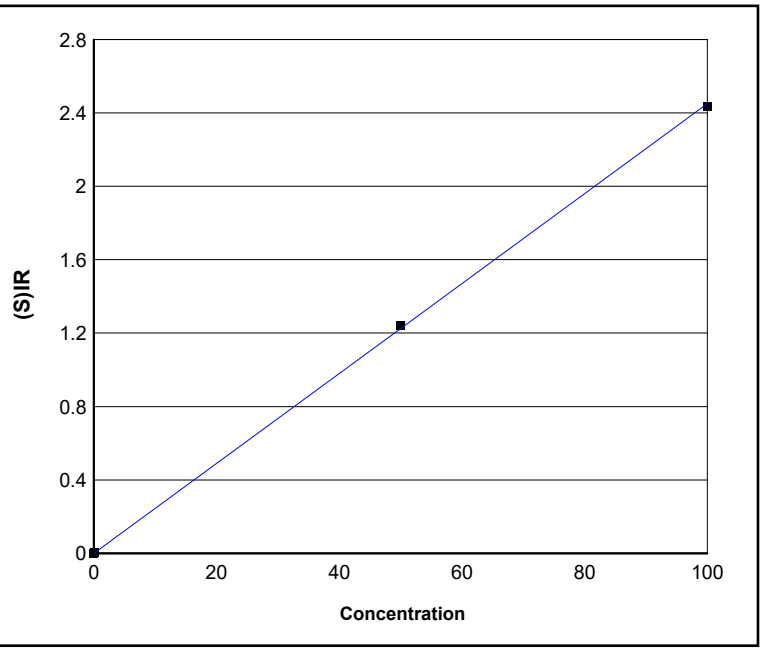
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.000055159	0.000055159	0.00000	0.011361	0.00022118	1
IC-7028546	0.50000	0.44320	-0.056802	-11.360	0.048308	0.00025005	1
IC-7024752	50.000	50.272	0.27170	0.54340	4.2027	0.0089679	1
IC-7019492	100.00	99.785	-0.21490	-0.21490	8.3309	0.0063859	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.0010607
A1 (Gain):	1.6748
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

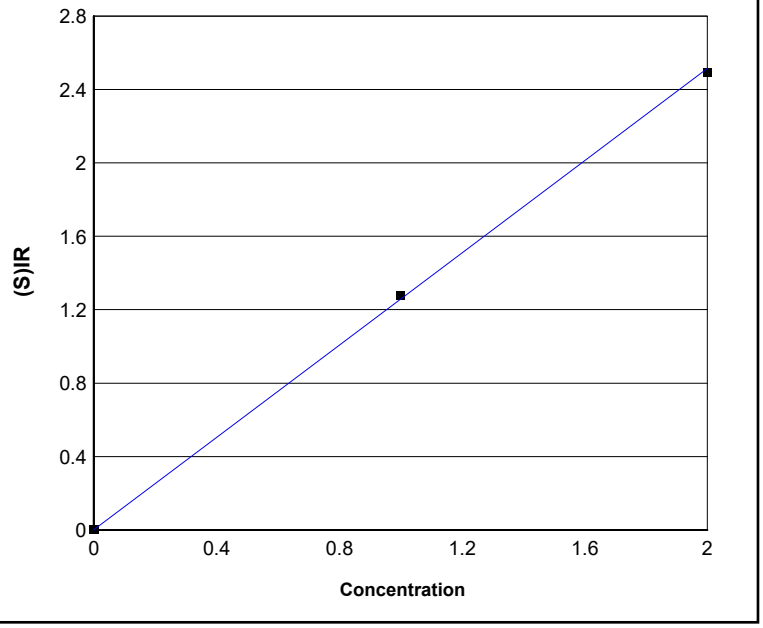
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000021301	0.0000021301	0.00000	-0.0010571	0.00017426	1
IC-7028546	0.030000	0.027929	-0.0020706	-6.9020	0.045715	0.000021623	1
IC-7024752	1.0000	0.99396	-0.0060407	-0.60407	1.6636	0.00034173	1
IC-7019492	2.0000	2.0081	0.0081112	0.40556	3.3621	0.00098915	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.000059338
A1 (Gain):	0.024502
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

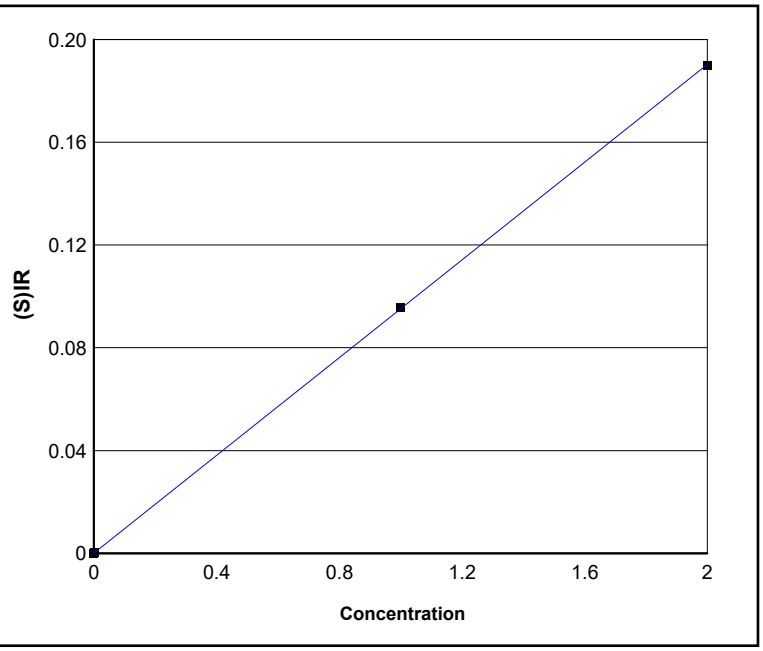
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000073334	0.0000073334	0.00000	0.000059518	0.000045053	1
IC-7028546	0.20000	0.19117	-0.0088264	-4.4132	0.0047432	0.000067765	1
IC-7024752	50.000	50.738	0.73765	1.4753	1.2432	0.0036933	1
IC-7019492	100.00	99.271	-0.72883	-0.72883	2.4322	0.0086999	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.00044970
A1 (Gain):	1.2569
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

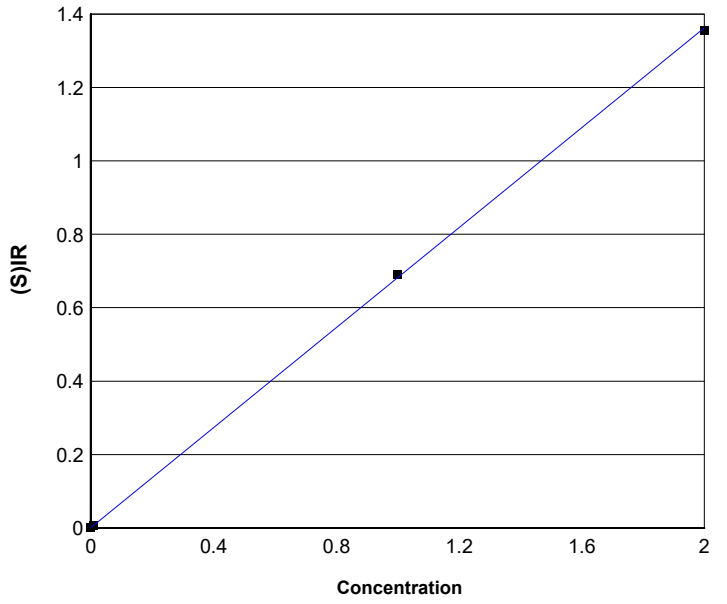
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000003549	-0.0000003549	0.00000	0.00044925	0.000015424	1
IC-7028546	0.0030000	0.0033280	0.00032802	10.934	0.0046341	0.000038635	1
IC-7024752	1.0000	1.0182	0.018240	1.8240	1.2806	0.0062832	1
IC-7019492	2.0000	1.9814	-0.018568	-0.92842	2.4916	0.0068683	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.000081016
A1 (Gain):	0.095092
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

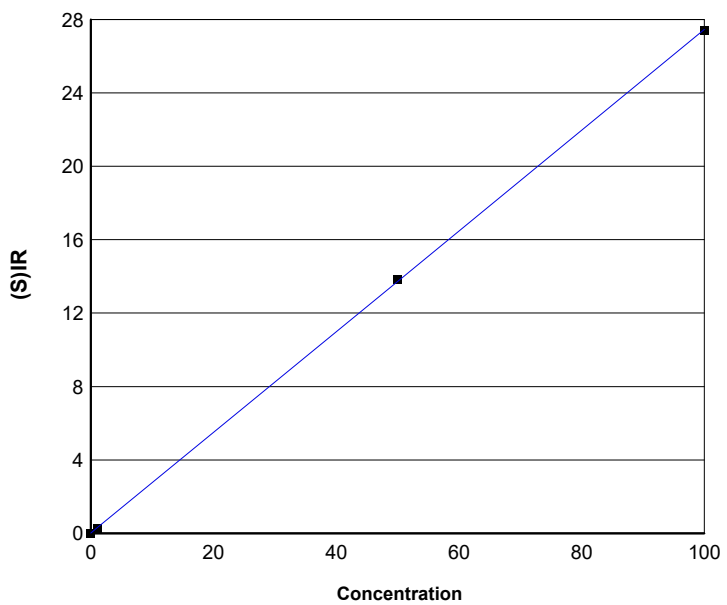
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000003377	-0.0000003377	0.00000	0.000080984	0.000015662	1
IC-7028546	0.0030000	0.0033300	0.00032995	10.998	0.00039777	0.0000031032	1
IC-7024752	1.0000	1.0055	0.0055229	0.55229	0.095727	0.00048412	1
IC-7019492	2.0000	1.9941	-0.0058529	-0.29264	0.18977	0.00017133	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.0012019
A1 (Gain):	0.68048
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

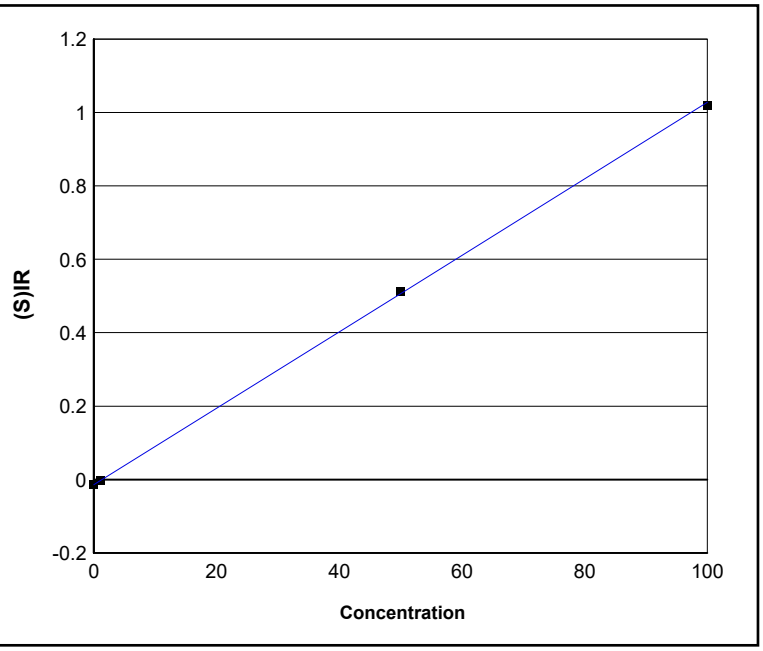
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000016113	0.0000016113	0.00000	0.0012030	0.000052687	1
IC-7028546	0.010000	0.0083245	-0.0016755	-16.755	0.0068666	0.000043301	1
IC-7024752	1.0000	1.0112	0.011172	1.1172	0.68929	0.0017614	1
IC-7019492	2.0000	1.9905	-0.0094960	-0.47480	1.3557	0.0030449	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.011741
A1 (Gain):	0.27450
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

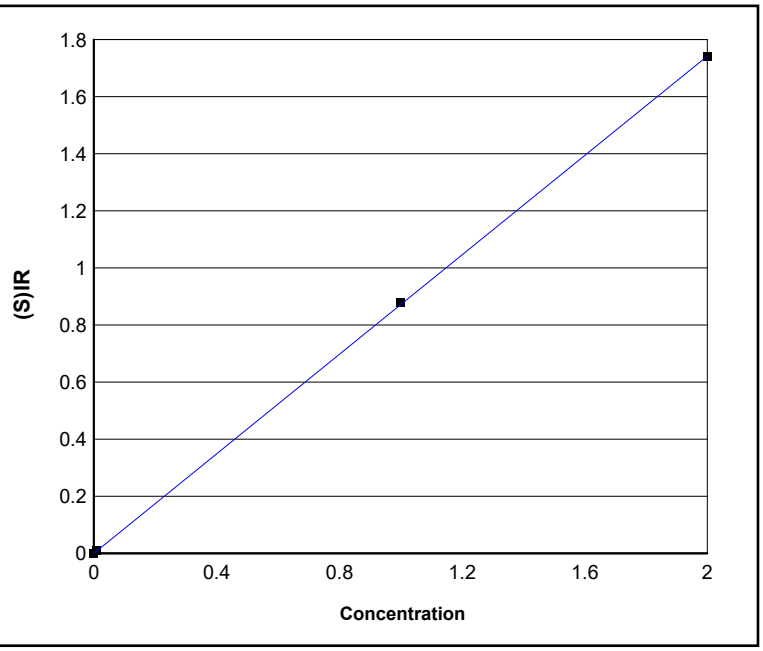
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.000052571	0.000052571	0.00000	0.011755	0.0010736	1
IC-7028546	1.0000	0.94394	-0.056058	-5.6058	0.27085	0.0016091	1
IC-7024752	50.000	50.293	0.29269	0.58538	13.817	0.020022	1
IC-7019492	100.00	99.763	-0.23663	-0.23663	27.397	0.034258	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	-0.014408
A1 (Gain):	0.010419
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

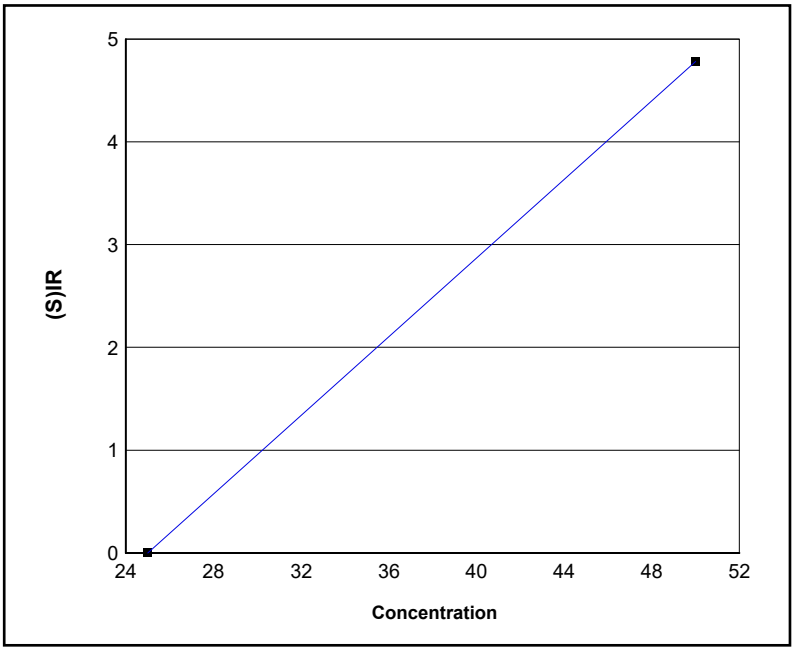
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	-0.00014335	-0.00014335	0.00000	-0.014410	0.00056840	1
IC-7028546	1.0000	1.1397	0.13974	13.974	-0.0025331	0.0015054	1
IC-7024752	50.000	50.501	0.50131	1.0026	0.51178	0.0019943	1
IC-7019492	100.00	99.359	-0.64105	-0.64105	1.0208	0.00020363	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00024917
A1 (Gain):	0.87087
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

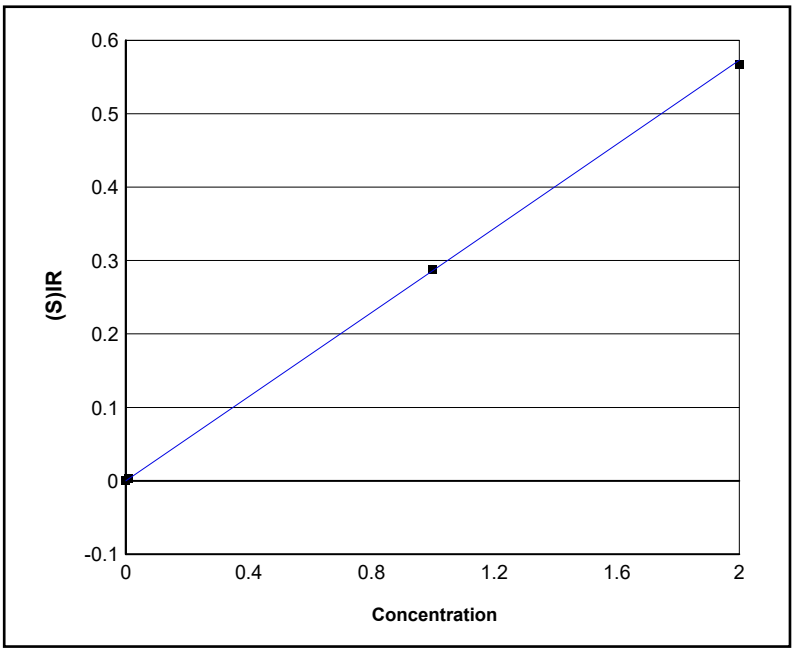
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000005350	0.0000005350	0.00000	0.00024964	0.00030759	1
IC-7028546	0.010000	0.0094310	-0.00056900	-5.6900	0.0084632	0.000029209	1
IC-7024752	1.0000	1.0062	0.0062299	0.62299	0.87741	0.00068061	1
IC-7019492	2.0000	1.9943	-0.0056614	-0.28307	1.7388	0.000062466	1



Element Name:	P
Element Wavelength:	P 213.618 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-4.781
A1 (Gain):	0.1912
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

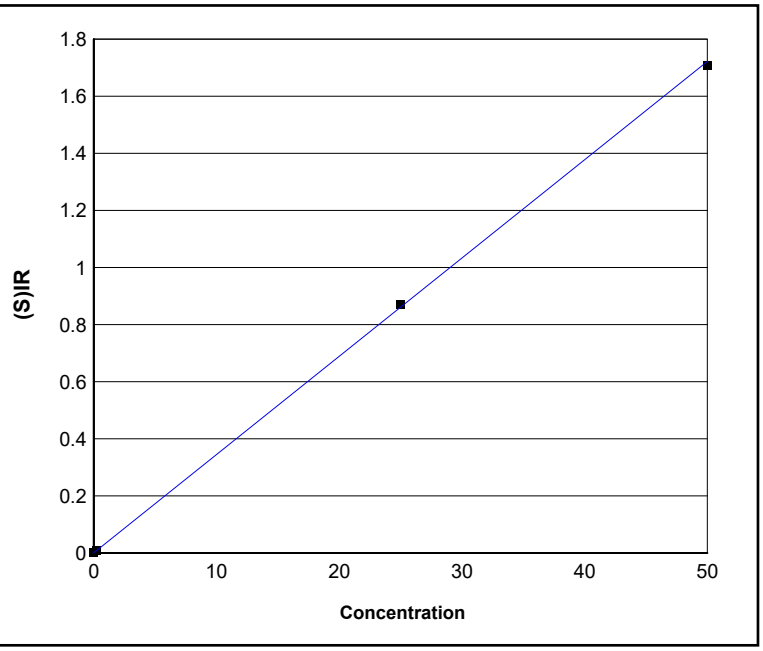
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-7028546	25.00	25.00	0.0000	0.0000	0.0006403	0.000006707	1
IC-7019492	50.00	50.00	0.0000	0.0000	4.782	0.0008531	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00010095
A1 (Gain):	0.28651
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

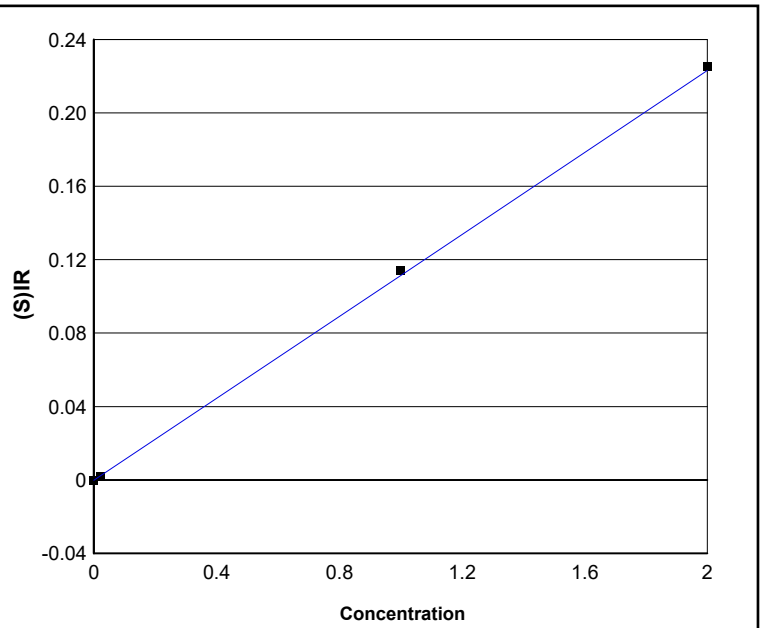
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000003311	0.0000003311	0.00000	-0.00010085	0.00024686	1
IC-7028546	0.010000	0.0096197	-0.00038034	-3.8034	0.0026310	0.000080043	1
IC-7024752	1.0000	1.0095	0.0094672	0.94672	0.28768	0.00054034	1
IC-7019492	2.0000	1.9909	-0.0090881	-0.45441	0.56743	0.00079703	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.00048967
A1 (Gain):	0.034418
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

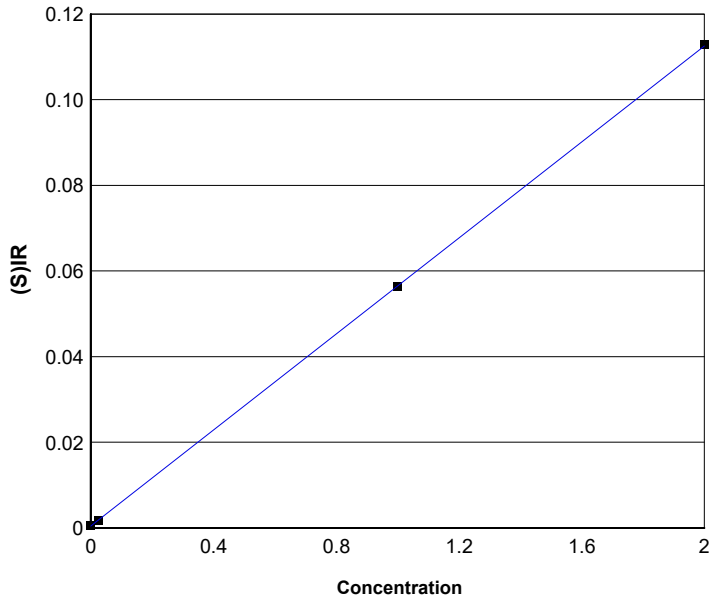
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000087817	0.0000087817	0.00000	0.00048997	0.000059109	1
IC-7028546	0.20000	0.18997	-0.010030	-5.0148	0.0070235	0.000040732	1
IC-7024752	25.000	25.302	0.30192	1.2077	0.87020	0.00052383	1
IC-7019492	50.000	49.708	-0.29188	-0.58377	1.7091	0.0017424	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	-0.00021290
A1 (Gain):	0.11164
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

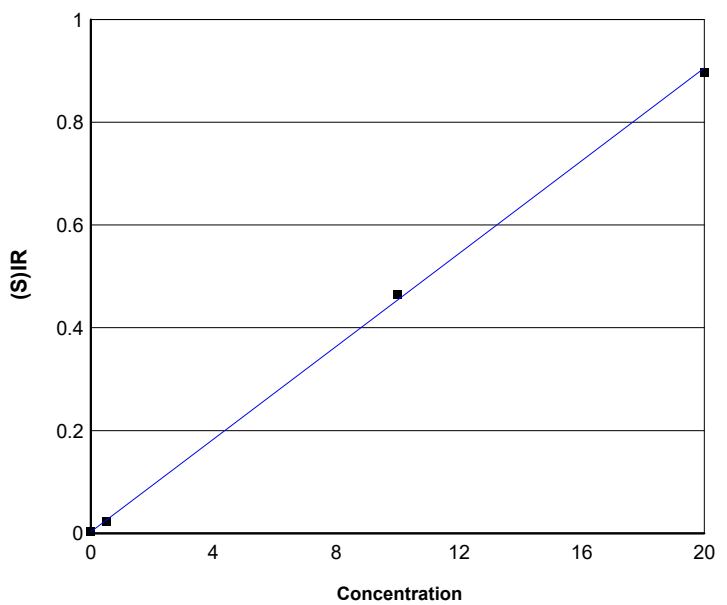
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000026549	0.0000026549	0.00000	-0.00021260	0.00016863	1
IC-7028546	0.020000	0.017203	-0.0027968	-13.984	0.0017151	0.00039704	1
IC-7024752	1.0000	1.0114	0.011420	1.1420	0.11426	0.00013699	1
IC-7019492	2.0000	1.9913	-0.0086530	-0.43265	0.22522	0.000037603	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.00044900
A1 (Gain):	0.056060
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

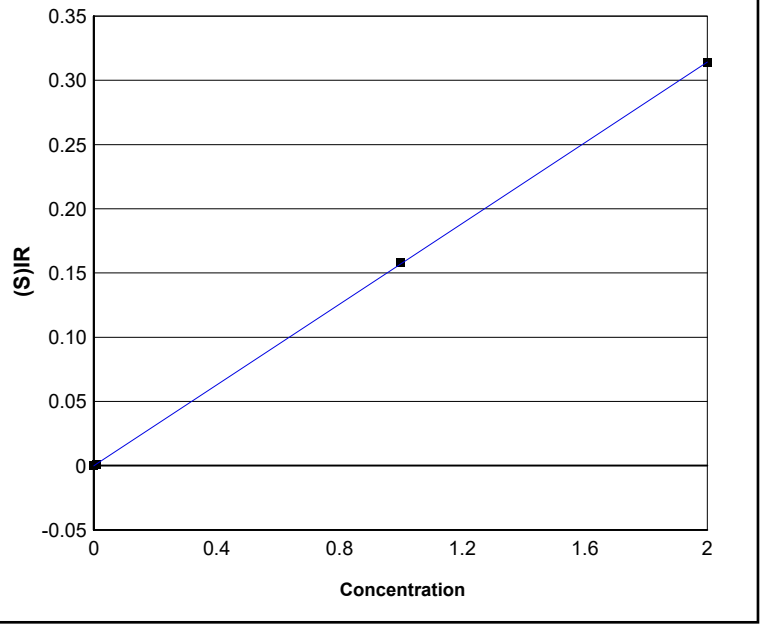
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000035822	0.0000035822	0.00000	0.00044920	0.000091430	1
IC-7028546	0.025000	0.021380	-0.0036202	-14.481	0.0016476	0.000026917	1
IC-7024752	1.0000	0.99942	-0.00057811	-0.057811	0.056498	0.00034309	1
IC-7019492	2.0000	2.0042	0.0041970	0.20985	0.11285	0.00038809	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99981
A0 (Offset):	0.0028254
A1 (Gain):	0.045144
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

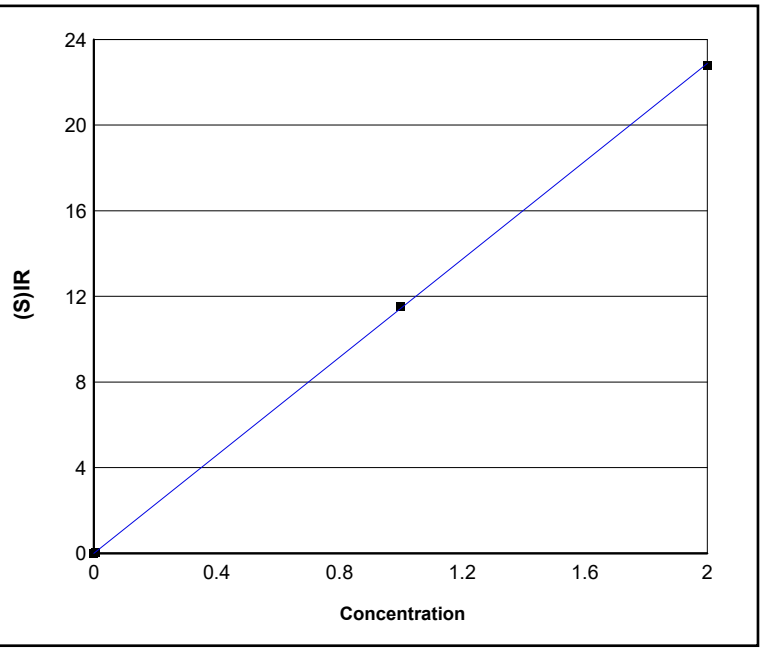
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.000038995	0.000038995	0.00000	0.0028271	0.00029266	1
IC-7028546	0.50000	0.45403	-0.045971	-9.1942	0.023322	0.00037327	1
IC-7024752	10.000	10.233	0.23307	2.3307	0.46479	0.0037269	1
IC-7019492	20.000	19.813	-0.18710	-0.93551	0.89726	0.0053747	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.000027768
A1 (Gain):	0.15709
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

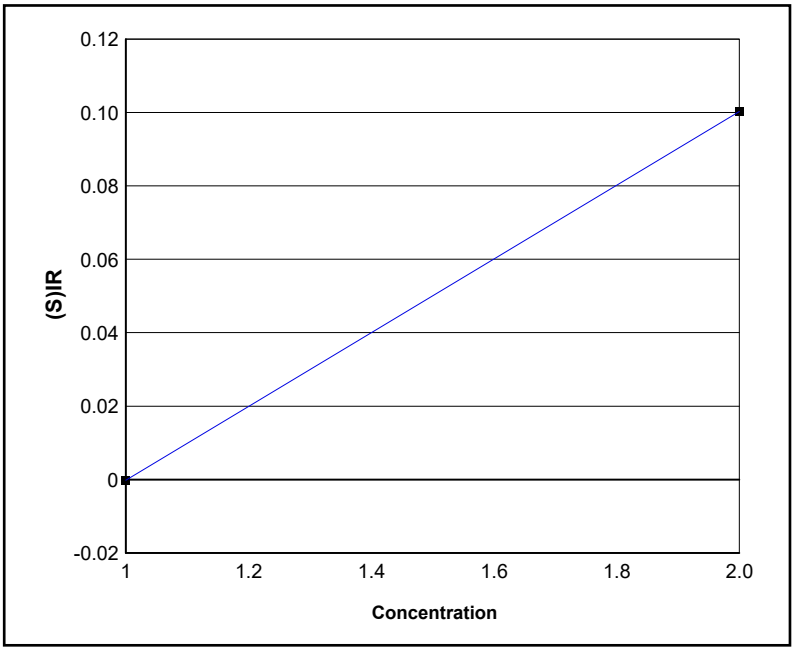
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000014050	0.0000014050	0.00000	-0.000027547	0.000032667	1
IC-7028546	0.010000	0.0085616	-0.0014384	-14.384	0.0013172	0.000049301	1
IC-7024752	1.0000	1.0052	0.0052472	0.52472	0.15788	0.00021397	1
IC-7019492	2.0000	1.9962	-0.0038088	-0.19044	0.31355	0.00048600	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00016112
A1 (Gain):	11.444
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

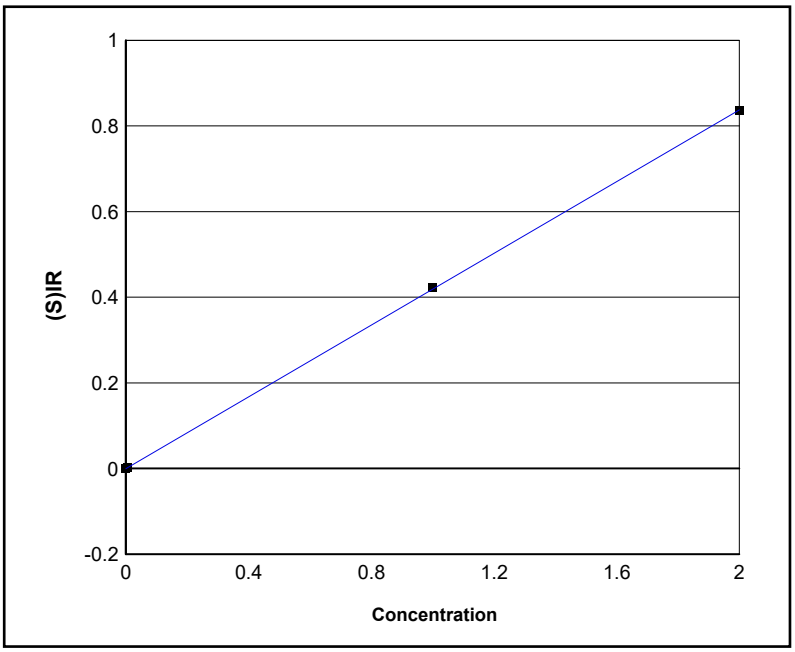
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000001433	0.0000001433	0.00000	0.00016276	0.00011640	1
IC-7028546	0.0050000	0.0048373	-0.00016267	-3.2535	0.055521	0.00037926	1
IC-7024752	1.0000	1.0076	0.0076021	0.76021	11.531	0.015234	1
IC-7019492	2.0000	1.9926	-0.0074394	-0.37197	22.804	0.00024452	1



Element Name:	Th
Element Wavelength:	Th 283.730 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-0.1006
A1 (Gain):	0.1004
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

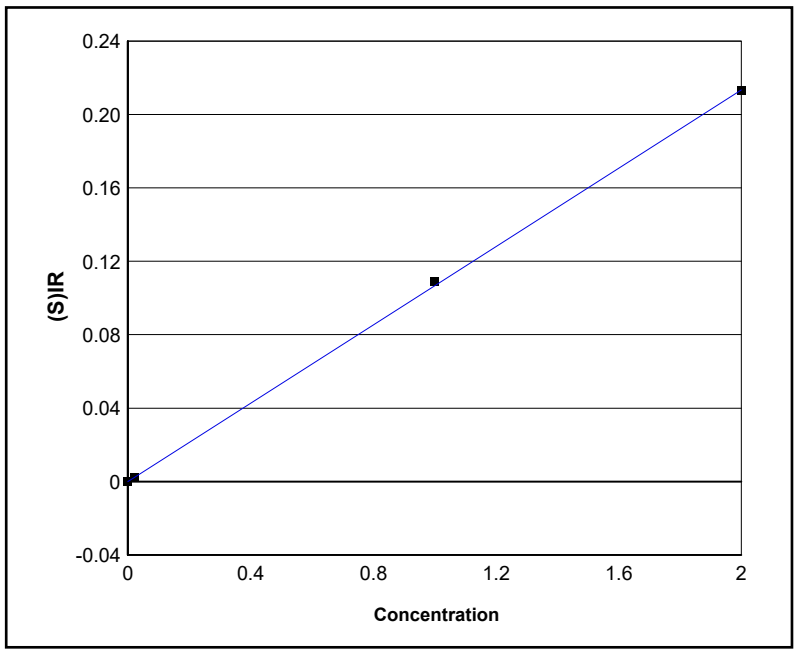
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-7028546	1.000	1.0000	0.0000000000	0.0000000000	-0.0001870	0.0001138	1
IC-7019492	2.000	2.000	0.0000	0.0000	0.1002	0.0003745	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	-0.00021252
A1 (Gain):	0.41889
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

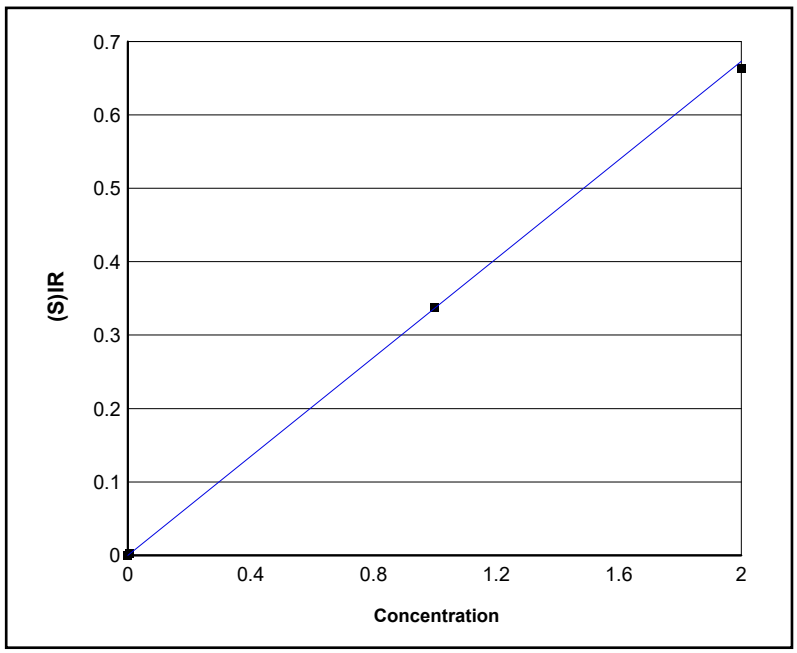
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000009080	0.0000009080	0.00000	-0.00021214	0.000093082	1
IC-7028546	0.0050000	0.0040671	-0.00093288	-18.658	0.0014974	0.000049331	1
IC-7024752	1.0000	1.0090	0.0090274	0.90274	0.42314	0.0014303	1
IC-7019492	2.0000	1.9919	-0.0080932	-0.40466	0.83555	0.0022985	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	-0.000096664
A1 (Gain):	0.10679
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

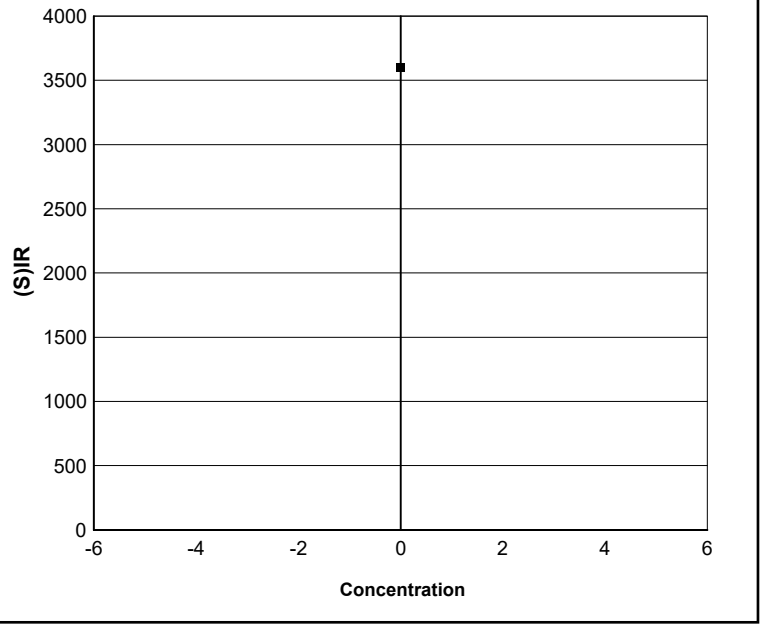
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000005341	0.0000005341	0.00000	-0.000096606	0.000052335	1
IC-7028546	0.020000	0.019307	-0.00069278	-3.4639	0.0019672	0.000097071	1
IC-7024752	1.0000	1.0152	0.015182	1.5182	0.10880	0.00031237	1
IC-7019492	2.0000	1.9855	-0.014492	-0.72459	0.21290	0.00017963	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.00012290
A1 (Gain):	0.33640
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

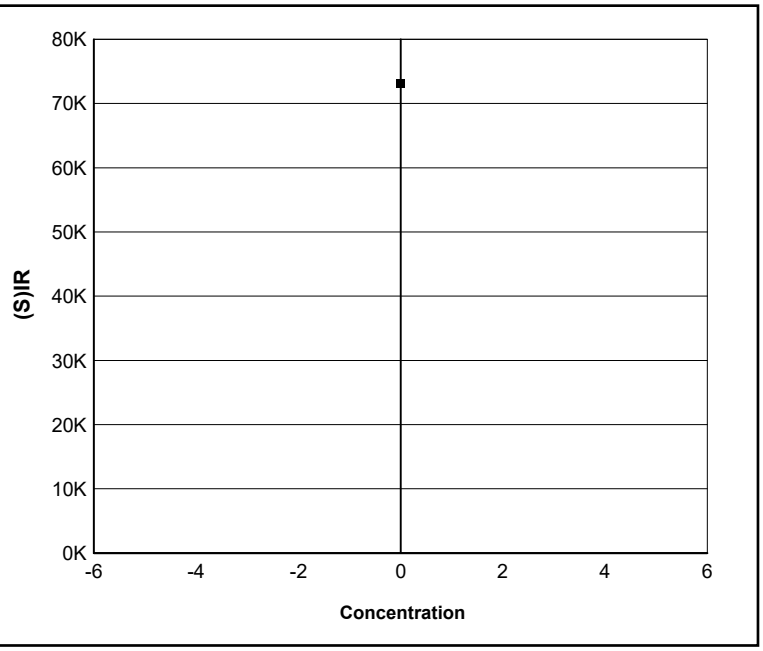
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000226	-0.0000000226	0.00000	0.00012289	0.000088253	1
IC-7028546	0.0050000	0.0049906	-0.0000094220	-0.18844	0.0017696	0.000082222	1
IC-7024752	1.0000	1.0128	0.012797	1.2797	0.33785	0.0012810	1
IC-7019492	2.0000	1.9872	-0.012788	-0.63939	0.66267	0.0021591	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:10:26PM
Date of Fit:	6/10/2022 12:10:26PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

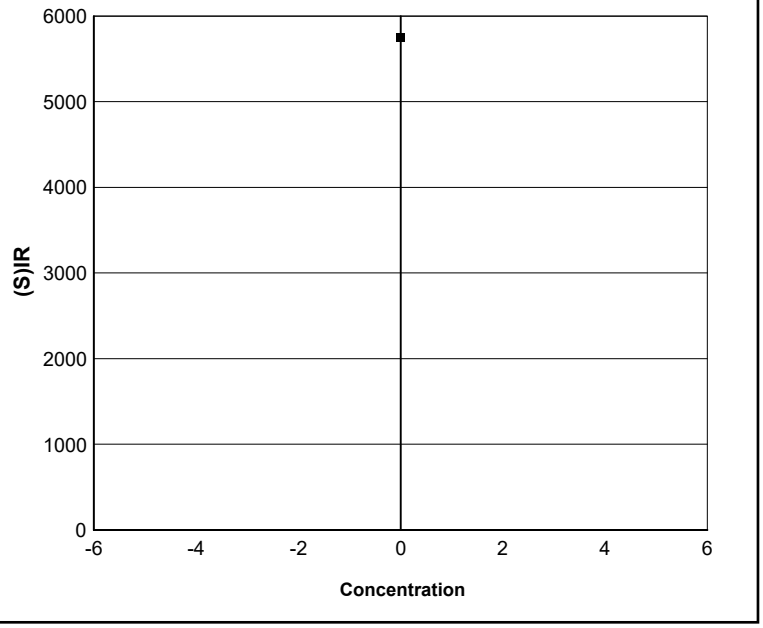
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000			0.0000	3,599	3.839	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:10:26PM
Date of Fit:	6/10/2022 12:10:26PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

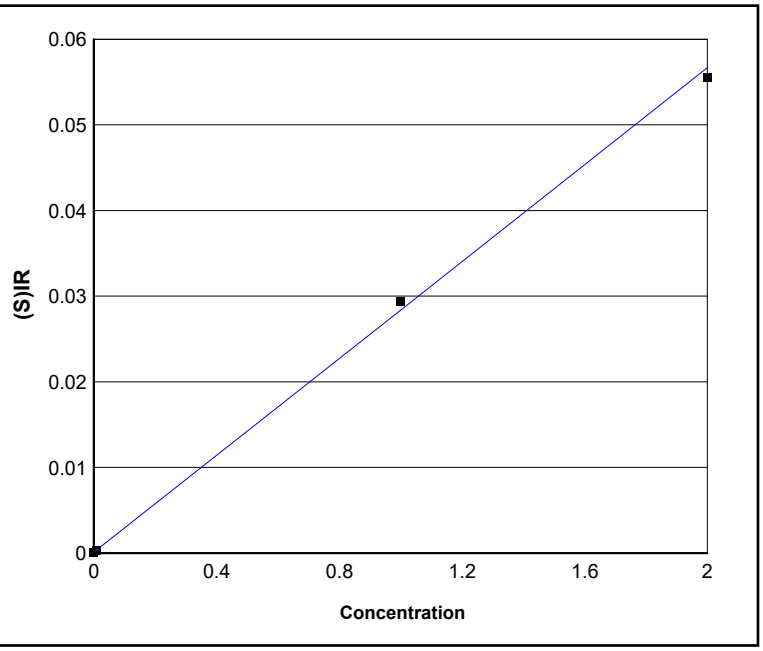
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000			0.0000	73,140	262.3	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:10:26PM
Date of Fit:	6/10/2022 12:10:26PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

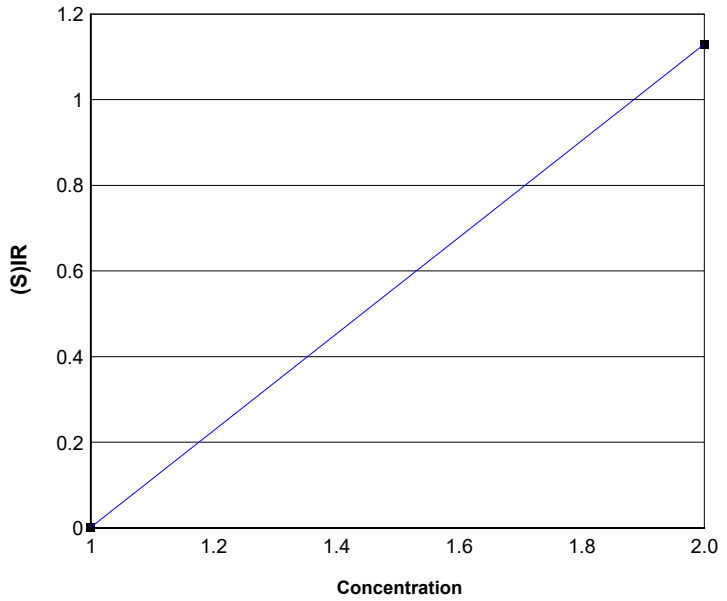
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000			0.0000	5,756	9.372	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	0.99962
A0 (Offset):	0.00012467
A1 (Gain):	0.028270
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000013769	0.0000013769	0.00000	0.00012471	0.0000076799	1
IC-7028546	0.010000	0.0084274	-0.0015726	-15.726	0.00036275	0.000021000	1
IC-7024752	1.0000	1.0376	0.037564	3.7564	0.029416	0.00010596	1
IC-7019492	2.0000	1.9640	-0.035990	-1.7995	0.055566	0.00011872	1



Element Name:	Zr
Element Wavelength:	Zr 343.823 nm
Concentration Units:	ppm
Date of Calibration:	6/10/2022 12:21:36PM
Date of Fit:	6/10/2022 12:21:36PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-1.128
A1 (Gain):	1.129
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-7028546	1.000	1.000	0.0000	0.0000	0.001175	0.0004634	1
IC-7019492	2.000	2.000	0.0000	0.0000	1.130	0.0002602	1

Sample Name: ICIS-7026764 Acquired: 6/10/2022 12:06:36 Type: Cal
Method: ICAP1 Feb 2022(v110) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00022**	**.00098**	**-.00000**	**.00102**	**.01040**
Stddev	.00012	.00004	.00009	.00016	.00053
%RSD	53.381	4.2044	2627.0	15.362	5.1148
#1	-.00030	.00101	.00006	.00113	.01002
#2	-.00014	.00095	-.00006	.00091	.01077

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00211**	**-.00196**	**.01516**	**-.00010**	**.0001**
Stddev	.00006	.00015	.00007	.00028	.0015
%RSD	3.0325	7.7968	.45365	277.09	1382.
#1	.00206	-.00207	.01521	-.00030	.0012
#2	.00215	-.00186	.01511	.00010	-.0009

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00025**	**.00001**	**.00024**	**.00059**	**.00087**
Stddev	.00007	.00000	.00002	.00009	.00003
%RSD	28.504	3.7397	8.4483	15.242	2.9912
#1	-.00020	.00001	.00026	.00053	.00085
#2	-.00030	.00001	.00023	.00065	.00089

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01136**	**-.00106**	**.00006**	**.00045**	**.00008**
Stddev	.00022	.00017	.00005	.00002	.00002
%RSD	1.9468	16.485	75.697	3.4333	19.340
#1	.01120	-.00093	.00009	.00044	.00009
#2	.01152	-.00118	.00003	.00046	.00007

Sample Name: ICIS-7026764 Acquired: 6/10/2022 12:06:36 Type: Cal
Method: ICAP1 Feb 2022(v110) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00120**	**.01175**	**-.01441**	**.00025**	**-.00010**
Stddev	.00005	.00107	.00057	.00031	.00025
%RSD	4.3795	9.1330	3.9446	123.21	244.77
#1	.00117	.01251	-.01481	.00047	-.00028
#2	.00124	.01100	-.01401	.00003	.00007

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00049**	**-.00021**	**.00045**	**.00283**	**-.00003**
Stddev	.00006	.00017	.00009	.00029	.00003
%RSD	12.064	79.319	20.354	10.352	118.58
#1	.00053	-.00009	.00038	.00262	-.00000
#2	.00045	-.00033	.00051	.00303	-.00005

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00016**	**-.00021**	**-.00010**	**.00012**	**.00012**
Stddev	.00012	.00009	.00005	.00009	.00001
%RSD	71.518	43.878	54.174	71.815	6.1581
#1	.00008	-.00028	-.00006	.00006	.00013
#2	.00025	-.00015	-.00013	.00019	.00012

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4024.8**	**3599.3**	**73138.**	**5756.3**
Stddev	1.0	3.8	262.	9.4
%RSD	.02412	.10666	.35863	.16282
#1	4024.1	3596.5	73323.	5762.9
#2	4025.5	3602.0	72952.	5749.7

Sample Name: IC-7028546 Acquired: 6/10/2022 12:10:29 Type: Cal
Method: ICAP1 Feb 2022(v110) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00140**	**.00680**	**.00089**	**.00821**	**.02294**
Stddev	.00008	.00088	.00001	.00006	.00085
%RSD	5.8222	12.932	1.6662	.68484	3.7203
#1	.00135	.00618	.00088	.00817	.02234
#2	.00146	.00743	.00090	.00824	.02355

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02393**	**.01972**	**.15194**	**.00400**	**.00447**
Stddev	.00001	.00037	.00022	.00009	.00004
%RSD	.05874	1.8663	.14337	2.2523	.82060
#1	.02392	.01946	.15210	.00407	.00449
#2	.02394	.01998	.15179	.00394	.00444

Elem	Cr2677	Cu3273	Fe2599	Fe2714	K_7664
Line	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}	766.490 { 44}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00077**	**.00288**	**.01025**	**.00084**	**.04831**
Stddev	.00003	.00023	.00040	.00004	.00025
%RSD	4.4624	7.8837	3.9259	4.1985	.51762
#1	.00074	.00304	.01053	.00087	.04848
#2	.00079	.00272	.00996	.00082	.04813

Elem	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020
Line	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2	202.030 {467}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.04571**	**.00474**	**.00463**	**.00040**	**.00687**
Stddev	.00002	.00007	.00004	.00000	.00004
%RSD	.04730	1.4287	.83370	.78015	.63061
#1	.04570	.00470	.00466	.00040	.00690
#2	.04573	.00479	.00461	.00040	.00684

Sample Name: IC-7028546 Acquired: 6/10/2022 12:10:29 Type: Cal
Method: ICAP1 Feb 2022(v110) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Na8183	Ni2316	P_2136	Pb2203
Line	589.592 { 57}	818.326 { 41}	231.604 {446}	213.618 {458}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.27085**	**-.00253**	**.00846**	**.0006**	**.00263**
Stddev	.00161	.00151	.00003	.0000	.00008
%RSD	.59408	59.430	.34513	1.047	3.0423
#1	.26971	-.00147	.00848	.0006	.00257
#2	.27199	-.00360	.00844	.0006	.00269

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00702**	**.00172**	**.00165**	**.02332**	**.00132**
Stddev	.00004	.00040	.00003	.00037	.00005
%RSD	.57994	23.149	1.6337	1.6005	3.7430
#1	.00705	.00143	.00167	.02306	.00128
#2	.00699	.00200	.00163	.02359	.00135

Elem	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Line	407.771 { 83}	283.730 {119}	334.904 {101}	190.856 {477}	292.402 {115}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.05552**	**-.0002**	**.00150**	**.00197**	**.00177**
Stddev	.00038	.0001	.00005	.00010	.00008
%RSD	.68309	60.84	3.2943	4.9344	4.6462
#1	.05525	-.0003	.00153	.00190	.00183
#2	.05579	-.0001	.00146	.00204	.00171

Elem	Zn2062	Zr3438
Line	206.200 {163}	343.823 { 98}
Units	Cts/S	Cts/S
Avg	**.00036**	**.0012**
Stddev	.00002	.0005
%RSD	5.7891	39.45
#1	.00038	.0015
#2	.00035	.0008

Sample Name: IC-7028546 Acquired: 6/10/2022 12:10:29 Type: Cal
Method: ICAP1 Feb 2022(v110) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4034.4**	**3634.7**	**73535.**	**5807.3**
Stddev	7.6	2.9	137.	7.6
%RSD	.18891	.08109	.18684	.13084
#1	4029.0	3632.6	73438.	5812.7
#2	4039.8	3636.8	73632.	5801.9

Sample Name: IC-7024752 Acquired: 6/10/2022 12:14:22 Type: Cal
Method: ICAP1 Feb 2022(v110) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.31079**	**1.5090**	**.06855**	**.40453**	**6.3834**
Stddev	.00130	.0021	.00000	.00122	.0086
%RSD	.41797	.14087	.00137	.30088	.13392
#1	.31171	1.5105	.06855	.40367	6.3894
#2	.30987	1.5075	.06855	.40539	6.3773

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10.804**	**11.084**	**14.296**	**2.2472**	**.0069**
Stddev	.085	.012	.021	.0013	.0004
%RSD	.78986	.11188	.14426	.05901	5.349
#1	10.865	11.093	14.311	2.2462	.0071
#2	10.744	11.076	14.282	2.2481	.0066

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.2549**	**.20003**	**.26929**	**9.8289**	**.50855**
Stddev	.0007	.00061	.00062	.0080	.00196
%RSD	.05290	.30694	.22863	.08084	.38507
#1	1.2554	.20046	.26973	9.8345	.50994
#2	1.2545	.19959	.26886	9.8233	.50717

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.2027**	**1.6636**	**1.2432**	**1.2806**	**.09573**
Stddev	.0090	.0003	.0037	.0063	.00048
%RSD	.21338	.02054	.29709	.49063	.50573
#1	4.2091	1.6638	1.2458	1.2851	.09607
#2	4.1964	1.6634	1.2405	1.2762	.09539

Sample Name: IC-7024752 Acquired: 6/10/2022 12:14:22 Type: Cal
Method: ICAP1 Feb 2022(v110) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.68929**	**13.817**	**.51178**	**.87741**	**.28768**
Stddev	.00176	.020	.00199	.00068	.00054
%RSD	.25554	.14491	.38968	.07757	.18783
#1	.69053	13.831	.51319	.87693	.28806
#2	.68804	13.803	.51037	.87790	.28729

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.87020**	**.11426**	**.05650**	**.46479**	**.15788**
Stddev	.00052	.00014	.00034	.00373	.00021
%RSD	.06020	.11989	.60725	.80184	.13553
#1	.86983	.11436	.05674	.46215	.15804
#2	.87057	.11417	.05626	.46742	.15773

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11.531**	**.42314**	**.10880**	**.33785**	**.02942**
Stddev	.015	.00143	.00031	.00128	.00011
%RSD	.13211	.33803	.28711	.37917	.36022
#1	11.542	.42416	.10902	.33876	.02949
#2	11.521	.42213	.10858	.33695	.02934

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3405.4**	**3367.1**	**67356.**	**5561.4**
Stddev	.7	4.4	167.	5.5
%RSD	.02002	.13183	.24864	.09967
#1	3405.0	3370.2	67237.	5565.3
#2	3405.9	3363.9	67474.	5557.4

Sample Name: IC-7019492 Acquired: 6/10/2022 12:18:02 Type: Cal
Method: ICAP1 Feb 2022(v110) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.61625**	**2.9657**	**.13595**	**.77760**	**12.666**
Stddev	.00088	.0033	.00014	.00066	.002
%RSD	.14281	.11229	.10448	.08537	.01964
#1	.61688	2.9633	.13605	.77713	12.664
#2	.61563	2.9680	.13585	.77807	12.668

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**21.089**	**21.743**	**27.779**	**4.4080**	**.0138**
Stddev	.065	.009	.025	.0026	.0005
%RSD	.30768	.04063	.09153	.05897	3.581
#1	21.043	21.737	27.761	4.4062	.0135
#2	21.135	21.749	27.797	4.4099	.0142

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.4985**	**.39117**	**.53469**	**19.053**	**.98157**
Stddev	.0008	.00075	.00007	.009	.00128
%RSD	.03391	.19173	.01379	.04807	.13050
#1	2.4991	.39170	.53464	19.047	.98067
#2	2.4979	.39064	.53474	19.060	.98248

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**8.3309**	**3.3621**	**2.4322**	**2.4916**	**.18977**
Stddev	.0064	.0010	.0087	.0069	.00017
%RSD	.07665	.02942	.35769	.27565	.09028
#1	8.3354	3.3614	2.4384	2.4965	.18989
#2	8.3264	3.3628	2.4261	2.4868	.18965

Sample Name: IC-7019492 Acquired: 6/10/2022 12:18:02 Type: Cal
Method: ICAP1 Feb 2022(v110) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	P_2136
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	213.618 {458}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.3557**	**27.397**	**1.0208**	**1.7388**	**4.782**
Stddev	.0030	.034	.0002	.0001	.001
%RSD	.22460	.12504	.01995	.00359	.0178
#1	1.3579	27.372	1.0210	1.7388	4.782
#2	1.3536	27.421	1.0207	1.7388	4.781

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.56743**	**1.7091**	**.22522**	**.11285**	**.89726**
Stddev	.00080	.0017	.00004	.00039	.00537
%RSD	.14046	.10195	.01670	.34390	.59901
#1	.56686	1.7103	.22525	.11312	.89346
#2	.56799	1.7078	.22520	.11257	.90106

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908
Line	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}	190.856 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.31355**	**22.804**	**.1002**	**.83555**	**.21290**
Stddev	.00049	.000	.0004	.00230	.00018
%RSD	.15500	.00107	.3737	.27509	.08437
#1	.31321	22.804	.1000	.83717	.21278
#2	.31389	22.804	.1005	.83392	.21303

Elem	V_2924	Zn2062	Zr3438
Line	292.402 {115}	206.200 {163}	343.823 { 98}
Units	Cts/S	Cts/S	Cts/S
Avg	**.66267**	**.05557**	**1.130**
Stddev	.00216	.00012	.000
%RSD	.32582	.21365	.0230
#1	.66420	.05565	1.130
#2	.66115	.05548	1.130

Sample Name: IC-7019492 Acquired: 6/10/2022 12:18:02 Type: Cal
Method: ICAP1 Feb 2022(v110) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3222.4**	**3305.1**	**65829.**	**5546.8**
Stddev	2.5	2.8	132.	2.3
%RSD	.07748	.08531	.20004	.04105
#1	3220.6	3303.2	65736.	5545.2
#2	3224.1	3307.1	65922.	5548.4

Sample Name: ICV-7017592 Acquired: 6/10/2022 12:21:41 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.75445**	**36.582**	**.76061**	**.77751**	**.74995**
Stddev	.00147	.093	.00019	.00018	.00147
%RSD	.19435	.25438	.02498	.02309	.19543
#1	.75341	36.648	.76075	.77738	.75099
#2	.75549	36.516	.76048	.77763	.74891
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.75748**	**37.046**	**.74612**	**1.612**	**.74179**
Stddev	.00090	.079	.00040	.062	.00006
%RSD	.11841	.21429	.05356	3.839	.00744
#1	.75811	37.102	.74584	1.569	.74176
#2	.75684	36.990	.74640	1.656	.74183
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.76103**	**.74502**	**37.444**	**36.456**	**.74019**
Stddev	.00067	.00154	.021	.014	.00041
%RSD	.08784	.20685	.05615	.03707	.05602
#1	.76150	.74611	37.459	36.465	.73990
#2	.76056	.74393	37.429	36.446	.74048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICV-7017592 Acquired: 6/10/2022 12:21:41 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.777**	**.76562**	**.76811**	**36.452**	**.74794**
Stddev	.096	.00111	.00013	.048	.00144
%RSD	.26185	.14446	.01676	.13207	.19265
#1	36.845	.76640	.76802	36.486	.74692
#2	36.709	.76484	.76820	36.418	.74896
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.42**	**.74514**	**18.554**	**.76634**	**.76760**
Stddev	.00	.00180	.013	.00027	.00616
%RSD	.0009	.24106	.06808	.03529	.80310
#1	34.42	.74387	18.545	.76653	.76324
#2	34.42	.74641	18.563	.76615	.77196
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	W **7.8801**	**.73242**	**.74968**	**1.037**	**.75514**
Stddev	.0064	.00167	.00058	.002	.00078
%RSD	.08113	.22771	.07746	.1799	.10272
#1	7.8846	.73124	.75009	1.039	.75569
#2	7.8755	.73360	.74927	1.036	.75459
Check ?	Chk Warn	Chk Pass	Chk Pass	None	Chk Pass
Value	7.5000				
Range	5.0000%				

Sample Name: ICV-7017592 Acquired: 6/10/2022 12:21:41 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.76232**	**.75039**	**.75108**	**1.001**
Stddev	.00233	.00048	.00217	.001
%RSD	.30582	.06381	.28929	.0788
#1	.76397	.75073	.75262	1.000
#2	.76067	.75005	.74955	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3483.7**	**3406.4**	**68178.**	**5631.9**
Stddev	3.9	3.5	212.	16.7
%RSD	.11271	.10389	.31138	.29726
#1	3486.5	3408.9	68028.	5620.1
#2	3480.9	3403.9	68328.	5643.8

Sample Name: ICB-7026764 Acquired: 6/10/2022 12:25:22 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**-.02781**	**.00264**	**.00178**	**.00004**
Stddev	.00083	.02723	.00125	.00023	.00003
%RSD	296.70	97.910	47.247	12.721	60.216
#1	-.00087	-.00856	.00176	.00162	.00006
#2	.00031	-.04707	.00352	.00194	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00444**	**.00010**	**-.0241**	**-.00002**
Stddev	.00001	.00043	.00006	.0632	.00003
%RSD	27.134	9.7205	54.610	261.6	186.99
#1	.00005	-.00413	.00014	-.0688	-.00004
#2	.00003	-.00474	.00006	.0205	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**-.00045**	**.00568**	**.07245**	**.00080**
Stddev	.00002	.00005	.00141	.00245	.00202
%RSD	5.8491	12.190	24.834	3.3852	250.85
#1	.00034	-.00049	.00468	.07419	.00223
#2	.00037	-.00041	.00668	.07072	-.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-7026764 Acquired: 6/10/2022 12:25:22 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00120**	**.00009**	**.00121**	**.01824**	**-.00003**
Stddev	.00233	.00004	.00020	.00318	.00012
%RSD	193.24	40.141	16.315	17.426	378.55
#1	-.00285	.00011	.00107	.02049	.00005
#2	.00044	.00006	.00135	.01600	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00020**	**.00176**	**-.00180**	**-.00260**
Stddev	.00	.00006	.00124	.00051	.00095
%RSD	.0002	32.235	70.756	28.322	36.685
#1	25.00	.00024	.00088	-.00217	-.00327
#2	25.00	.00015	.00264	-.00144	-.00192
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00999**	**-.00052**	**-.00001**	**1.001**	**.00014**
Stddev	.00376	.00047	.00003	.004	.00001
%RSD	37.620	91.267	254.62	.3576	6.7737
#1	-.00733	-.00085	-.00003	.9984	.00013
#2	-.01264	-.00018	.00001	1.003	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-7026764 Acquired: 6/10/2022 12:25:22 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00025**	**-.00014**	**-.00091**	**.9985**
Stddev	.00037	.00016	.00024	.0002
%RSD	147.77	110.35	25.925	.0230
#1	-.00001	-.00026	-.00108	.9987
#2	.00051	-.00003	-.00074	.9984
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4047.1**	**3615.9**	**73130.**	**5826.0**
Stddev	6.3	5.9	56.	18.6
%RSD	.15496	.16272	.07606	.31920
#1	4042.7	3611.7	73091.	5812.9
#2	4051.5	3620.1	73169.	5839.2

Sample Name: ICVL-7028546 Acquired: 6/10/2022 12:29:15 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00551**	**.17893**	**.01553**	**.02034**	**.00209**
Stddev	.00000	.00411	.00371	.00016	.00002
%RSD	.06368	2.2968	23.889	.79392	.91506
#1	.00550	.17603	.01291	.02046	.00208
#2	.00551	.18184	.01815	.02023	.00211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00204**	**.50560**	**.00188**	**.1035**	**.00382**
Stddev	.00000	.00232	.00023	.0272	.00001
%RSD	.20529	.45875	12.455	26.31	.34669
#1	.00204	.50396	.00205	.1227	.00383
#2	.00203	.50724	.00172	.0842	.00381
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00429**	**.00992**	**.05004**	**.52154**	**.02709**
Stddev	.00004	.00046	.00185	.01106	.00065
%RSD	.99986	4.6360	3.6967	2.1209	2.3949
#1	.00426	.00959	.05135	.51371	.02755
#2	.00432	.01024	.04873	.52936	.02664
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-7028546 Acquired: 6/10/2022 12:29:15 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19564**	**.00340**	**.00916**	**.96873**	**.00971**
Stddev	.00375	.00001	.00008	.00374	.00002
%RSD	1.9179	.28608	.90619	.38570	.25735
#1	.19830	.00339	.00910	.97137	.00973
#2	.19299	.00341	.00922	.96608	.00969
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00990**	**.19503**	**.01670**	**.02320**
Stddev	.00	.00038	.00551	.00181	.00869
%RSD	.0073	3.8490	2.8233	10.865	37.443
#1	25.00	.01017	.19893	.01798	.02934
#2	25.00	.00964	.19114	.01542	.01706
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46257**	**.00843**	**.00496**	F **1.001**	**.00446**
Stddev	.01773	.00078	.00010	.002	.00011
%RSD	3.8340	9.2645	1.9415	.1855	2.4535
#1	.47512	.00898	.00489	.9999	.00454
#2	.45003	.00788	.00503	1.002	.00439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: ICVL-7028546 Acquired: 6/10/2022 12:29:15 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01908**	**.00481**	**.00783**	F **.9996**
Stddev	.00019	.00035	.00013	.0002
%RSD	1.0184	7.3495	1.6444	.0182
#1	.01921	.00506	.00792	.9997
#2	.01894	.00456	.00774	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3974.8**	**3567.0**	**72235.**	**5694.0**
Stddev	2.4	.1	35.	22.3
%RSD	.06132	.00206	.04885	.39135
#1	3973.1	3567.1	72210.	5678.3
#2	3976.5	3567.0	72260.	5709.8

Sample Name: ICSA-7017591 Acquired: 6/10/2022 12:33:08 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**483.32**	**-.00038**	**.00087**	**.00767**
Stddev	.00045	.56	.00107	.00089	.00001
%RSD	102.17	.11548	281.64	101.61	.12337
#1	.00012	483.71	-.00113	.00025	.00767
#2	.00076	482.92	.00038	.00150	.00768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**457.00**	**-.00019**	**.3845**	**-.00065**
Stddev	.00003	.72	.00019	.1646	.00010
%RSD	76.940	.15844	98.848	42.81	15.486
#1	.00002	457.51	-.00032	.2681	-.00058
#2	.00006	456.49	-.00006	.5009	-.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00149**	**-.00617**	**182.58**	**.34835**	**.00626**
Stddev	.00066	.00065	.47	.01789	.00036
%RSD	44.459	10.565	.25953	5.1368	5.7695
#1	.00195	-.00663	182.92	.36101	.00600
#2	.00102	-.00571	182.25	.33570	.00651
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-7017591 Acquired: 6/10/2022 12:33:08 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**488.00**	**-.00075**	**-.00206**	**.11099**	**.00048**
Stddev	.32	.00001	.00013	.00344	.00003
%RSD	.06510	.68362	6.4827	3.1003	6.4847
#1	488.22	-.00075	-.00216	.10856	.00046
#2	487.77	-.00075	-.00197	.11342	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**-.00474**	W **.20611**	**-.00469**	**.00150**
Stddev	.00	.00093	.00192	.00204	.00480
%RSD	.0095	19.543	.93299	43.453	320.35
#1	25.03	-.00539	.20475	-.00325	.00490
#2	25.03	-.00408	.20747	-.00613	-.00190
Check ?	None	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit			.20000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03549**	**-.00277**	**.01259**	**1.072**	**.00202**
Stddev	.00120	.00069	.00011	.000	.00014
%RSD	3.3925	24.839	.86725	.0001	6.9880
#1	-.03634	-.00326	.01252	1.072	.00212
#2	-.03464	-.00229	.01267	1.072	.00192
Check ?	None	Chk Pass	None	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-7017591 Acquired: 6/10/2022 12:33:08 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00375**	**.00105**	**-.00149**	**1.002**
Stddev	.00055	.00049	.00014	.000
%RSD	14.580	46.921	9.2186	.0250
#1	.00336	.00070	-.00158	1.002
#2	.00414	.00140	-.00139	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2993.6**	**3149.9**	**63343.**	**5514.3**
Stddev	1.6	1.6	24.	9.9
%RSD	.05272	.05072	.03798	.17864
#1	2994.7	3148.8	63360.	5507.4
#2	2992.5	3151.0	63326.	5521.3

Sample Name: ICSAB-7019499 Acquired: 6/10/2022 12:37:05 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52095**	**490.91**	**.50360**	**4.7744**	**.52570**
Stddev	.00204	.13	.00433	.0093	.00084
%RSD	.39193	.02726	.85953	.19531	.15981
#1	.51951	491.00	.50666	4.7810	.52630
#2	.52239	490.81	.50054	4.7678	.52511
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.24807**	**465.41**	**.51495**	**.4057**	**.50314**
Stddev	.00058	1.06	.00163	.0139	.00066
%RSD	.23436	.22852	.31643	3.436	.13020
#1	.24848	464.66	.51610	.3959	.50360
#2	.24766	466.16	.51379	.4156	.50267
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48731**	**.52044**	**188.51**	**5.2778**	**.00747**
Stddev	.00244	.00117	.18	.0001	.00070
%RSD	.50150	.22559	.09463	.00258	9.3988
#1	.48558	.51961	188.63	5.2779	.00797
#2	.48904	.52127	188.38	5.2777	.00698
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None
Value					
Range					

Sample Name: ICSAB-7019499 Acquired: 6/10/2022 12:37:05 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**498.86**	**.49466**	**.48683**	**5.2739**	**.48900**
Stddev	.07	.00157	.00136	.0095	.00153
%RSD	.01459	.31689	.28037	.17973	.31186
#1	498.81	.49355	.48779	5.2672	.49008
#2	498.91	.49576	.48586	5.2806	.48792
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.53**	**.49176**	**.21036**	**.47733**	**.49617**
Stddev	.01	.00014	.00332	.00073	.00217
%RSD	.0258	.02774	1.5801	.15354	.43645
#1	27.54	.49166	.20801	.47784	.49770
#2	27.53	.49185	.21271	.47681	.49463
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8771**	**.49270**	**.50365**	**1.077**	**.49937**
Stddev	.0029	.00384	.00012	.004	.00078
%RSD	.05867	.77890	.02397	.3533	.15636
#1	4.8751	.49541	.50373	1.080	.49882
#2	4.8792	.48998	.50356	1.074	.49992
Check ?	None	None	None	None	None
Value					
Range					

Sample Name: ICSAB-7019499 Acquired: 6/10/2022 12:37:05 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.49755**	**.49177**	**.45628**	**1.003**
Stddev	.00160	.00110	.00018	.000
%RSD	.32106	.22377	.03841	.0210
#1	.49642	.49099	.45640	1.003
#2	.49868	.49255	.45615	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2903.5**	**3075.9**	**61436.**	**5397.3**
Stddev	5.3	6.8	195.	5.4
%RSD	.18143	.22165	.31698	.10096
#1	2899.7	3071.1	61574.	5401.1
#2	2907.2	3080.7	61299.	5393.4

Sample Name: ICEX1 Acquired: 6/10/2022 12:40:59 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**-.04543**	**4.5941**	**.00721**	**.00003**
Stddev	.00031	.03872	.0121	.00021	.00002
%RSD	43.998	85.222	.26350	2.8679	56.268
#1	-.00093	-.07281	4.6027	.00736	.00004
#2	-.00049	-.01806	4.5855	.00707	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00078**	**.00813**	**-.00031**	**-.2644**	**.00010**
Stddev	.00003	.00046	.00003	.1043	.00008
%RSD	4.1786	5.6040	9.5721	39.44	76.697
#1	.00076	.00845	-.00029	-.1907	.00005
#2	.00080	.00780	-.00033	-.3382	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00113**	**24.822**	**.01666**	**-.01024**	**.00413**
Stddev	.00003	.159	.00097	.00873	.00028
%RSD	2.5689	.64038	5.8095	85.299	6.7158
#1	.00116	24.935	.01598	-.01641	.00433
#2	.00111	24.710	.01735	-.00406	.00393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 6/10/2022 12:40:59 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00287**	**.00129**	**-.00148**	**.00094**	**.00016**
Stddev	.00282	.00014	.00014	.00220	.00035
%RSD	98.303	10.986	9.1937	235.12	224.64
#1	.00487	.00139	-.00157	-.00062	-.00009
#2	.00088	.00119	-.00138	.00249	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**.00390**	**.00737**	**-.00298**	**-.00017**
Stddev	.00	.00006	.00358	.00082	.00115
%RSD	.0014	1.5295	48.520	27.430	690.21
#1	25.12	.00394	.00484	-.00240	.00065
#2	25.12	.00385	.00991	-.00356	-.00098
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01739**	**-.00026**	**-.00010**	**1.002**	F **.00782**
Stddev	.00244	.00034	.00001	.004	.00038
%RSD	14.034	130.35	6.0664	.3662	4.8691
#1	.01567	-.00051	-.00010	.9990	.00809
#2	.01912	-.00002	-.00009	1.004	.00756
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Fail
High Limit					.00500
Low Limit					-.00500

Sample Name: ICEX1 Acquired: 6/10/2022 12:40:59 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00040**	**4.8780**	**-.00159**	**.9990**
Stddev	.00057	.0139	.00041	.0008
%RSD	140.03	.28455	25.718	.0822
#1	.00000	4.8879	-.00188	.9996
#2	.00080	4.8682	-.00130	.9984
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3991.8**	**3609.3**	**73268.**	**5733.6**
Stddev	4.4	3.0	248.	8.1
%RSD	.11112	.08390	.33820	.14154
#1	3988.7	3607.2	73093.	5727.9
#2	3994.9	3611.5	73443.	5739.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.180%	100.28%	100.18%	99.606%
Range				

Sample Name: ICEX2 Acquired: 6/10/2022 12:45:02 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00367**	**.00826**	**.00500**	**.00351**	**.00021**
Stddev	.00152	.00352	.00046	.00011	.00001
%RSD	41.446	42.634	9.1910	3.2791	2.5404
#1	.00260	.01075	.00533	.00342	.00021
#2	.00475	.00577	.00468	.00359	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.05486**	**.00014**	**.2150**	**.00248**
Stddev	.00003	.00108	.00006	.3089	.00007
%RSD	38.915	1.9646	40.229	143.7	2.8427
#1	.00005	.05410	.00018	-.0034	.00253
#2	.00009	.05562	.00010	.4334	.00243
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00170**	**-.00127**	**.00377**	**.02880**	**9.2802**
Stddev	.00011	.00037	.00125	.03240	.0090
%RSD	6.3586	28.833	33.039	112.50	.09707
#1	.00178	-.00153	.00465	.05171	9.2866
#2	.00163	-.00101	.00289	.00589	9.2738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 6/10/2022 12:45:02 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03368**	**.00070**	**.00012**	**.01348**	**.00478**
Stddev	.00121	.00006	.00026	.00474	.00013
%RSD	3.5822	8.9149	227.04	35.144	2.6974
#1	-.03283	.00066	-.00007	.01013	.00487
#2	-.03454	.00075	.00030	.01683	.00469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00595**	**-.00808**	**.00144**	**.00031**
Stddev	.00	.00023	.00005	.00012	.00006
%RSD	.0015	3.9240	.67128	8.1453	17.861
#1	25.00	.00612	-.00804	.00153	.00035
#2	25.00	.00579	-.00812	.00136	.00027
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.681**	**-.00112**	**.00013**	**1.002**	**18.704**
Stddev	.291	.00067	.00007	.002	.023
%RSD	.58661	59.516	49.412	.2365	.12097
#1	49.474	-.00160	.00009	1.004	18.688
#2	49.887	-.00065	.00018	1.001	18.720
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 6/10/2022 12:45:02 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**18.936**	**.00008**	**.00539**	**1.002**
Stddev	.010	.00010	.00012	.002
%RSD	.05520	137.18	2.1870	.1584
#1	18.943	.00015	.00547	1.001
#2	18.928	.00000	.00531	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3812.7**	**3586.1**	**72559.**	**5733.6**
Stddev	3.3	6.7	174.	18.1
%RSD	.08767	.18723	.24039	.31553
#1	3810.4	3581.4	72682.	5720.9
#2	3815.1	3590.9	72436.	5746.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.731%	99.635%	99.209%	99.606%
Range				

Sample Name: ICEX3 Acquired: 6/10/2022 12:48:58 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00143**	**.02733**	**.00313**	**.00068**	**.00002**
Stddev	.00092	.02284	.00011	.00021	.00001
%RSD	64.566	83.557	3.6463	30.384	68.598
#1	.00208	.01118	.00321	.00083	.00001
#2	.00078	.04348	.00305	.00053	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00287**	**.00043**	**.7692**	**.00037**
Stddev	.00004	.00266	.00002	.0388	.00011
%RSD	38.120	92.503	4.6234	5.041	29.932
#1	.00007	.00475	.00042	.7418	.00045
#2	.00012	.00099	.00045	.7966	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00222**	**.00393**	**-.02129**	**-.01337**	**.00235**
Stddev	.00047	.00001	.00282	.02219	.00116
%RSD	21.180	.35077	13.238	165.99	49.335
#1	-.00255	.00392	-.02328	.00232	.00153
#2	-.00189	.00394	-.01930	-.02906	.00316
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 6/10/2022 12:48:58 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.04064**	**50.311**	**-.00444**	**-.00258**	**.00054**
Stddev	.00090	.217	.00036	.00250	.00028
%RSD	2.2106	.43076	8.1512	96.932	52.326
#1	-.04000	50.465	-.00469	-.00435	.00074
#2	-.04127	50.158	-.00418	-.00081	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00714**	**90.433**	**-.00539**	**.00114**
Stddev	.00	.00018	.027	.00047	.00109
%RSD	.0038	2.5003	.02940	8.7755	96.205
#1	25.00	.00726	90.414	-.00572	.00191
#2	25.00	.00701	90.452	-.00505	.00036
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00875**	**-.00109**	**.00006**	**.9987**	**-.00166**
Stddev	.00697	.00052	.00010	.0013	.00038
%RSD	79.619	47.819	167.65	.1320	22.964
#1	.00382	-.00146	.00012	.9978	-.00193
#2	.01367	-.00072	-.00001	.9996	-.00139
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 6/10/2022 12:48:58 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00985**	**.00103**	**-.00144**	**.9958**
Stddev	.00207	.00024	.00017	.0001
%RSD	20.991	23.194	11.990	.0089
#1	-.01131	.00120	-.00132	.9959
#2	-.00839	.00086	-.00156	.9957
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3979.3**	**3622.4**	**73204.**	**5823.3**
Stddev	.1	1.9	65.	1.0
%RSD	.00196	.05227	.08864	.01678
#1	3979.2	3623.7	73158.	5824.0
#2	3979.3	3621.0	73250.	5822.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.869%	100.64%	100.09%	101.16%
Range				

Sample Name: ICEX4 Acquired: 6/10/2022 12:52:58 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**-.01566**	**-.00141**	**-.00025**	**.00009**
Stddev	.00129	.00324	.00310	.00022	.00001
%RSD	203.94	20.668	220.76	88.067	8.4916
#1	-.00028	-.01337	-.00360	-.00009	.00010
#2	.00155	-.01795	.00079	-.00040	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00125**	**-.00016**	**.1183**	**18.422**
Stddev	.00002	.00016	.00017	.2475	.021
%RSD	70.525	12.655	107.57	209.1	.11377
#1	.00001	.00114	-.00028	-.0567	18.407
#2	.00004	.00137	-.00004	.2933	18.436
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7319**	**.00555**	**.00116**	**-.02040**	**.00047**
Stddev	.0096	.00004	.00013	.00440	.00095
%RSD	.09908	.68273	11.589	21.569	202.87
#1	9.7251	.00557	.00126	-.02351	-.00020
#2	9.7387	.00552	.00107	-.01728	.00115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 6/10/2022 12:52:58 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00662**	F **.00824**	**-.00124**	**-.00267**	**9.2897**
Stddev	.00035	.00001	.00029	.00162	.0037
%RSD	5.2445	.13136	23.738	60.595	.03992
#1	-.00686	.00823	-.00103	-.00153	9.2871
#2	-.00637	.00824	-.00145	-.00381	9.2924
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.00300			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.99**	**-.00285**	**.01227**	**.01469**	**.00063**
Stddev	.00	.00141	.00399	.00055	.00172
%RSD	.0051	49.456	32.528	3.7202	274.00
#1	24.99	-.00185	.01509	.01430	-.00059
#2	24.99	-.00385	.00944	.01507	.00185
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.14163**	**-.00075**	**-.00008**	**1.001**	**.00291**
Stddev	.01119	.00083	.00004	.002	.00034
%RSD	7.9009	110.60	50.789	.1486	11.578
#1	-.13372	-.00016	-.00010	1.002	.00267
#2	-.14954	-.00134	-.00005	.9999	.00315
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 6/10/2022 12:52:58 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.01353**	**-.00011**	**-.00306**	**.9979**
Stddev	.00066	.00026	.00048	.0004
%RSD	4.8466	239.65	15.826	.0358
#1	.01399	-.00029	-.00340	.9977
#2	.01307	.00007	-.00271	.9982
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3987.3**	**3614.7**	**73873.**	**5813.2**
Stddev	.9	4.1	35.	66.8
%RSD	.02284	.11227	.04764	1.1489
#1	3986.7	3611.8	73848.	5766.0
#2	3988.0	3617.6	73898.	5860.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.069%	100.43%	101.01%	100.99%
Range				

Sample Name: ICEX5 Acquired: 6/10/2022 12:56:48 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**.13628**	**.00363**	**.00616**	**-.00006**
Stddev	.00061	.02620	.00069	.00029	.00001
%RSD	78.386	19.223	19.027	4.7427	14.025
#1	.00034	.11775	.00315	.00637	-.00006
#2	.00120	.15480	.00412	.00595	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00470**	**.00010**	**.1093**	**-.00072**
Stddev	.00008	.00290	.00008	.0185	.00018
%RSD	117.54	61.611	76.844	16.91	24.894
#1	-.00012	.00265	.00015	.0962	-.00085
#2	-.00001	.00675	.00005	.1223	-.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.00249**	**-.00001**	**-.03696**	**.00043**
Stddev	.00018	.00024	.00257	.02528	.00107
%RSD	141.32	9.7036	21813.	68.407	249.24
#1	-.00000	-.00266	-.00183	-.05483	.00119
#2	-.00025	-.00232	.00180	-.01908	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 6/10/2022 12:56:48 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.05681**	**.00035**	**5.0478**	**.00018**	**.00023**
Stddev	.00401	.00001	.0084	.00838	.00025
%RSD	7.0558	3.2960	.16745	4534.4	110.36
#1	-.05397	.00036	5.0537	.00611	.00040
#2	-.05964	.00034	5.0418	-.00574	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00326**	**-.02590**	**-.00265**	**-.00152**
Stddev	.00	.00029	.00526	.00218	.00163
%RSD	.0003	8.8554	20.323	82.483	106.73
#1	25.00	.00306	-.02217	-.00419	-.00037
#2	25.00	.00346	-.02962	-.00110	-.00267
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12227**	**-.00043**	**-.00008**	**1.003**	**-.00215**
Stddev	.02423	.00035	.00008	.006	.00007
%RSD	19.816	79.976	97.880	.6217	3.2734
#1	.10513	-.00068	-.00013	1.008	-.00220
#2	.13940	-.00019	-.00002	.9990	-.00210
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 6/10/2022 12:56:48 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00222**	**.00019**	**-.00026**	**.9991**
Stddev	.00063	.00011	.00067	.0002
%RSD	28.293	57.320	256.80	.0246
#1	.00266	.00027	.00021	.9989
#2	.00177	.00012	-.00074	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4004.4**	**3645.6**	**74381.**	**5772.3**
Stddev	6.5	4.3	140.	1.0
%RSD	.16196	.11704	.18858	.01687
#1	3999.8	3642.6	74480.	5771.6
#2	4009.0	3648.7	74282.	5773.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.493%	101.29%	101.70%	100.28%
Range				

Sample Name: CCV-7024752 Acquired: 6/10/2022 13:00:41 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94053**	**48.915**	**.97938**	**1.0095**	**1.0083**
Stddev	.00039	.087	.00477	.0018	.0008
%RSD	.04133	.17782	.48671	.17444	.08156
#1	.94025	48.854	.97601	1.0083	1.0077
#2	.94080	48.977	.98275	1.0108	1.0089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99710**	**49.199**	**.99426**	**1.247**	**.99357**
Stddev	.00179	.133	.00005	.015	.00015
%RSD	.17972	.27078	.00527	1.200	.01516
#1	.99583	49.105	.99423	1.236	.99368
#2	.99837	49.293	.99430	1.257	.99347
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97298**	**.95713**	**49.769**	**49.447**	**.97007**
Stddev	.00043	.00327	.135	.030	.00357
%RSD	.04384	.34123	.27129	.06152	.36785
#1	.97268	.95944	49.674	49.426	.96755
#2	.97328	.95482	49.865	49.469	.97259
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 13:00:41 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.006**	**.97758**	**.98782**	**49.569**	**.97919**
Stddev	.031	.00054	.00234	.090	.00032
%RSD	.06358	.05501	.23658	.18178	.03280
#1	47.984	.97720	.98947	49.506	.97942
#2	48.027	.97796	.98617	49.633	.97896
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.59**	**.99266**	**24.556**	**.95548**	**.95982**
Stddev	.01	.00267	.002	.00046	.00650
%RSD	.0301	.26942	.00896	.04819	.67749
#1	37.60	.99455	24.557	.95515	.96442
#2	37.58	.99077	24.554	.95580	.95522
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6834**	**.99096**	**.98297**	**1.500**	**.97057**
Stddev	.0277	.00468	.00101	.002	.00156
%RSD	.28602	.47273	.10274	.1277	.16050
#1	9.6638	.98765	.98226	1.499	.96947
#2	9.7030	.99427	.98369	1.501	.97168
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 13:00:41 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99808**	**.97001**	**1.0196**	**1.497**
Stddev	.00024	.00195	.0021	.001
%RSD	.02405	.20059	.20120	.0371
#1	.99825	.96863	1.0182	1.498
#2	.99791	.97139	1.0211	1.497
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3459.0**	**3458.1**	**69235.**	**5565.5**
Stddev	1.9	2.4	130.	29.8
%RSD	.05434	.06891	.18729	.53503
#1	3460.3	3456.4	69326.	5586.5
#2	3457.7	3459.7	69143.	5544.4

Sample Name: CCB-7026764 Acquired: 6/10/2022 13:04:21 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**-.01035**	**.00066**	**.00145**	**.00006**
Stddev	.00039	.00747	.00109	.00026	.00001
%RSD	54.763	72.227	165.47	18.249	17.226
#1	.00100	-.01563	.00143	.00163	.00005
#2	.00044	-.00506	-.00011	.00126	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00061**	**-.00000**	**.2239**	**-.00010**
Stddev	.00005	.00052	.00010	.0479	.00005
%RSD	600.02	84.943	2018.3	21.38	51.072
#1	.00005	-.00024	.00006	.1901	-.00006
#2	-.00003	-.00098	-.00007	.2578	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00048**	**.00406**	**.00914**	**-.00008**
Stddev	.00001	.00006	.00110	.03490	.00147
%RSD	33.603	13.322	26.997	381.85	1919.0
#1	.00002	-.00052	.00483	-.01554	-.00112
#2	.00003	-.00043	.00328	.03381	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 13:04:21 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00093**	**.00004**	**.00283**	**-.00716**	**-.00003**
Stddev	.00158	.00009	.00079	.00436	.00005
%RSD	169.47	198.79	27.817	60.881	198.36
#1	-.00205	.00011	.00227	-.00408	.00001
#2	.00018	-.00002	.00338	-.01024	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00023**	**.00392**	**-.00190**	**.00409**
Stddev	.00	.00008	.00247	.00142	.00049
%RSD	.0023	33.271	63.127	74.695	12.034
#1	25.00	.00028	.00217	-.00291	.00374
#2	25.00	.00017	.00566	-.00090	.00444
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01854**	**.00007**	**-.00011**	**1.005**	**.00050**
Stddev	.01601	.00006	.00006	.005	.00017
%RSD	86.331	87.858	59.730	.5216	33.238
#1	-.02986	.00012	-.00015	1.001	.00038
#2	-.00722	.00003	-.00006	1.008	.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 13:04:21 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00172**	**-.00001**	**-.00044**	**.9997**
Stddev	.00049	.00051	.00027	.0006
%RSD	28.533	3706.7	60.953	.0604
#1	.00138	-.00038	-.00025	.9992
#2	.00207	.00035	-.00063	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4024.9**	**3625.5**	**73962.**	**5689.6**
Stddev	.1	3.9	195.	42.6
%RSD	.00322	.10625	.26396	.74874
#1	4024.8	3622.8	73824.	5659.4
#2	4025.0	3628.2	74100.	5719.7

Sample Name: CCVL-7028546 Acquired: 6/10/2022 13:08:15 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00615**	**.18648**	**.01304**	**.01923**	**.00209**
Stddev	.00011	.00071	.00068	.00028	.00004
%RSD	1.8132	.38287	5.1844	1.4525	1.9533
#1	.00623	.18698	.01352	.01943	.00207
#2	.00607	.18597	.01256	.01903	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**.49038**	**.00191**	**.1287**	**.00391**
Stddev	.00001	.00130	.00003	.0916	.00006
%RSD	.32320	.26490	1.7117	71.13	1.5891
#1	.00210	.48947	.00193	.0640	.00396
#2	.00209	.49130	.00188	.1935	.00387
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00386**	**.01047**	**.05004**	**.46288**	**.02584**
Stddev	.00030	.00020	.00018	.04829	.00095
%RSD	7.7320	1.8686	.36049	10.432	3.6860
#1	.00364	.01033	.05016	.42874	.02651
#2	.00407	.01061	.04991	.49702	.02517
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/10/2022 13:08:15 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19037**	**.00333**	**.00926**	**.94107**	**.00949**
Stddev	.00072	.00003	.00030	.00486	.00005
%RSD	.37827	.77648	3.2288	.51659	.50121
#1	.18986	.00335	.00905	.94451	.00946
#2	.19088	.00332	.00947	.93764	.00952
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01014**	**.18921**	**.01752**	**.01885**
Stddev	.00	.00020	.00045	.00116	.00242
%RSD	.0004	2.0018	.23600	6.6484	12.830
#1	25.00	.01000	.18953	.01835	.01714
#2	25.00	.01028	.18890	.01670	.02056
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44140**	**.00846**	**.00479**	F **1.003**	**.00442**
Stddev	.00592	.00006	.00003	.003	.00015
%RSD	1.3422	.73964	.69974	.2539	3.4289
#1	.43721	.00842	.00476	1.001	.00453
#2	.44559	.00851	.00481	1.005	.00431
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/10/2022 13:08:15 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01915**	**.00469**	**.00802**	F **.9989**
Stddev	.00007	.00045	.00081	.0011
%RSD	.39051	9.5274	10.063	.1065
#1	.01910	.00437	.00745	.9981
#2	.01920	.00500	.00859	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4000.5**	**3627.3**	**73533.**	**5721.7**
Stddev	8.0	.7	40.	6.3
%RSD	.19967	.01890	.05490	.11094
#1	4006.2	3627.8	73505.	5726.2
#2	3994.9	3626.9	73562.	5717.3

Sample Name: LB 480-629221/1-B Acquired: 6/10/2022 13:12:07 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**-.00297**	**.00204**	**.01402**	**.00045**
Stddev	.00055	.01780	.00280	.00011	.00000
%RSD	70.275	598.68	136.81	.81235	.91464
#1	-.00116	.00962	.00402	.01410	.00045
#2	-.00039	-.01556	.00007	.01394	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.11131**	**.00021**	**-.0235**	**-.00001**
Stddev	.00003	.00334	.00001	.1412	.00013
%RSD	62.424	2.9976	4.2851	601.0	903.46
#1	.00007	.11367	.00021	-.1233	-.00011
#2	.00003	.10895	.00022	.0764	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00335**	**.00024**	**.00797**	**1.1734**	**.00667**
Stddev	.00022	.00002	.00160	.0358	.00135
%RSD	6.6908	10.289	20.012	3.0509	20.241
#1	.00319	.00022	.00910	1.1481	.00571
#2	.00350	.00026	.00685	1.1987	.00762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LB 480-629221/1-B Acquired: 6/10/2022 13:12:07 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02647**	**.00016**	**-.00098**	F **1525.1**	**.00063**
Stddev	.00156	.00003	.00067	.0	.00004
%RSD	5.8983	19.887	68.262	.00142	6.7397
#1	.02536	.00014	-.00145	1525.1	.00060
#2	.02757	.00019	-.00051	1525.1	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				1.0000	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00080**	**.01879**	**.00099**	**-.00829**
Stddev	.00	.00143	.00141	.00102	.00351
%RSD	.0067	179.94	7.5270	102.94	42.321
#1	25.00	.00181	.01979	.00027	-.00581
#2	25.00	-.00022	.01779	.00171	-.01077
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04440**	**.00061**	**.00046**	**1.000**	**-.00047**
Stddev	.00996	.00091	.00008	.000	.00039
%RSD	22.419	149.15	18.320	.0388	83.279
#1	.03737	-.00003	.00040	1.001	-.00074
#2	.05144	.00125	.00051	1.000	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LB 480-629221/1-B Acquired: 6/10/2022 13:12:07 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00072**	**-.00030**	**-.00126**	**.9991**
Stddev	.00005	.00038	.00096	.0009
%RSD	7.0449	128.66	76.139	.0868
#1	-.00068	-.00057	-.00058	.9985
#2	-.00075	-.00003	-.00194	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3003.6**	**3147.0**	**61646.**	**5440.7**
Stddev	.1	.6	107.	9.6
%RSD	.00231	.02038	.17291	.17562
#1	3003.5	3146.5	61571.	5447.5
#2	3003.6	3147.4	61722.	5434.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.627%	87.434%	84.288%	94.518%
Range				

Sample Name: MB 480-629399/2-A Acquired: 6/10/2022 13:16:06 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**-.00434**	**-.00093**	**.00118**	**.00001**
Stddev	.00015	.01766	.00031	.00023	.00000
%RSD	25.928	406.87	33.245	19.453	.72559
#1	.00049	.00815	-.00114	.00102	.00001
#2	.00070	-.01683	-.00071	.00134	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.01755**	**.00012**	**.2000**	**.00003**
Stddev	.00003	.00090	.00016	.1538	.00004
%RSD	40.453	5.1209	138.36	76.94	143.96
#1	.00010	.01692	.00000	.3087	.00006
#2	.00006	.01819	.00023	.0912	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.00060**	**.00120**	**.01177**	**.00165**
Stddev	.00024	.00056	.00101	.04166	.00031
%RSD	115.83	93.597	83.984	353.87	18.721
#1	.00038	-.00099	.00192	.04123	.00143
#2	.00004	-.00020	.00049	-.01768	.00187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629399/2-A Acquired: 6/10/2022 13:16:06 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00015**	**-.00096**	**.19193**	**.00023**
Stddev	.00033	.00000	.00023	.00410	.00008
%RSD	117.67	.92318	23.590	2.1363	36.235
#1	.00005	.00014	-.00112	.19483	.00017
#2	.00051	.00015	-.00080	.18903	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00111**	**.00318**	**-.00222**	**-.00201**
Stddev	.00	.00086	.00047	.00013	.00226
%RSD	.0076	77.291	14.673	5.7908	112.44
#1	25.00	.00172	.00285	-.00231	-.00360
#2	25.00	.00050	.00351	-.00213	-.00041
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01533**	**-.00067**	**-.00007**	**1.002**	**-.00032**
Stddev	.00388	.00026	.00002	.000	.00039
%RSD	25.312	38.495	21.189	.0251	122.75
#1	.01258	-.00085	-.00006	1.002	-.00060
#2	.01807	-.00049	-.00008	1.001	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629399/2-A Acquired: 6/10/2022 13:16:06 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00077**	**.00005**	**-.00147**	**.9993**
Stddev	.00022	.00021	.00025	.0002
%RSD	28.853	408.06	16.874	.0221
#1	.00093	-.00010	-.00130	.9991
#2	.00061	.00020	-.00165	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4015.0**	**3642.1**	**73939.**	**5824.1**
Stddev	2.6	.7	143.	26.6
%RSD	.06361	.01907	.19280	.45695
#1	4016.8	3642.6	73838.	5805.2
#2	4013.2	3641.6	74039.	5842.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.757%	101.19%	101.10%	101.18%
Range				

Sample Name: LCS 480-629399/3-A Acquired: 6/10/2022 13:20:00 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98341**	**.02989**	**1.0480**	**.01257**	**.97319**
Stddev	.00271	.00162	.0028	.00014	.00054
%RSD	.27599	5.4347	.27112	1.0930	.05543
#1	.98533	.03104	1.0500	.01266	.97357
#2	.98149	.02874	1.0459	.01247	.97281
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98079**	**.07886**	**1.0081**	**.0119**	**1.0215**
Stddev	.00207	.00345	.0021	.1114	.0019
%RSD	.21141	4.3779	.20943	936.9	.18530
#1	.98226	.08130	1.0096	.0907	1.0229
#2	.97933	.07642	1.0066	-.0669	1.0202
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94392**	**.99019**	**.00934**	**1.0402**	**.00643**
Stddev	.00280	.00095	.00122	.0045	.00287
%RSD	.29701	.09564	13.097	.43463	44.671
#1	.94591	.99086	.00847	1.0370	.00440
#2	.94194	.98952	.01020	1.0434	.00846
Check ?	Chk Pass	Chk Pass	None	None	None
High Limit					
Low Limit					

Sample Name: LCS 480-629399/3-A Acquired: 6/10/2022 13:20:00 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01574**	**.98299**	**.96946**	**1467.3**	**.98543**
Stddev	.00349	.00296	.00548	2.9	.00244
%RSD	22.178	.30099	.56559	.19488	.24756
#1	.01327	.98508	.97333	1469.3	.98715
#2	.01821	.98089	.96558	1465.3	.98370
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.99416**	**.00386**	**.97048**	**1.0487**
Stddev	.00	.00135	.00315	.00890	.0042
%RSD	.0015	.13595	81.692	.91688	.39647
#1	25.00	.99511	.00163	.97677	1.0517
#2	25.00	.99320	.00608	.96419	1.0458
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit	1.200				
Low Limit	.8000				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04614**	**.00063**	**.09636**	**.9969**	**-.00169**
Stddev	.01750	.00045	.00033	.0016	.00023
%RSD	37.928	70.902	.34230	.1574	13.886
#1	.03376	.00031	.09659	.9980	-.00152
#2	.05851	.00094	.09613	.9958	-.00186
Check ?	None	None	None	Chk Pass	None
High Limit					
Low Limit					

Sample Name: LCS 480-629399/3-A Acquired: 6/10/2022 13:20:00 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.95801**	**.97438**	**1.0370**	**.9993**
Stddev	.00066	.00118	.0036	.0001
%RSD	.06839	.12081	.34517	.0075
#1	.95754	.97521	1.0396	.9992
#2	.95847	.97355	1.0345	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3042.0**	**3195.1**	**62555.**	**5537.2**
Stddev	1.0	5.1	72.	28.9
%RSD	.03181	.16005	.11444	.52243
#1	3041.3	3191.5	62505.	5516.8
#2	3042.7	3198.7	62606.	5557.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.580%	88.772%	85.531%	96.194%
Range				

Sample Name: 480-198744-A-1-B Acquired: 6/10/2022 13:23:54 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.28515**	**.01125**	**.14390**	**.08563**
Stddev	.00006	.00600	.00076	.00009	.00015
%RSD	235.33	2.1033	6.7739	.06029	.17627
#1	-.00006	.28091	.01071	.14396	.08574
#2	.00002	.28939	.01179	.14384	.08552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**53.993**	**.00033**	**.0973**	**.00282**
Stddev	.00003	.035	.00009	.0370	.00021
%RSD	26.168	.06432	26.902	38.03	7.4848
#1	.00014	53.969	.00026	.1234	.00267
#2	.00010	54.018	.00039	.0711	.00297
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00194**	**.00409**	**.34958**	**12.043**	**.00969**
Stddev	.00003	.00107	.00251	.059	.00019
%RSD	1.7044	26.296	.71841	.49304	1.9346
#1	.00196	.00485	.35136	12.001	.00956
#2	.00192	.00333	.34780	12.084	.00983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198744-A-1-B Acquired: 6/10/2022 13:23:54 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.7404**	**3.4099**	**.00092**	F **1386.3**	**.00998**
Stddev	.0048	.0007	.00048	1.7	.00004
%RSD	.05490	.02054	51.648	.11950	.35110
#1	8.7438	3.4104	.00059	1387.5	.01000
#2	8.7370	3.4094	.00126	1385.1	.00995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.10**	**.00432**	**4.5088**	**.00151**	**-.00208**
Stddev	.02	.00055	.0147	.00122	.00175
%RSD	.0420	12.765	.32611	81.102	84.130
#1	36.11	.00471	4.5192	.00237	-.00332
#2	36.09	.00393	4.4984	.00064	-.00084
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.65458**	**.00065**	**.14719**	**1.004**	**-.00074**
Stddev	.00240	.00131	.00009	.002	.00016
%RSD	.36693	202.98	.06084	.1709	21.168
#1	.65627	-.00028	.14725	1.006	-.00086
#2	.65288	.00158	.14712	1.003	-.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198744-A-1-B Acquired: 6/10/2022 13:23:54 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00144**	**.00062**	**.29370**	**.9990**
Stddev	.00132	.00002	.00123	.0001
%RSD	91.531	2.8995	.41842	.0134
#1	-.00051	.00064	.29283	.9989
#2	-.00238	.00061	.29456	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3019.8**	**3164.4**	**63034.**	**5509.1**
Stddev	.6	.4	59.	17.6
%RSD	.01822	.01328	.09337	.31886
#1	3019.5	3164.7	62992.	5521.5
#2	3020.2	3164.1	63076.	5496.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.031%	87.919%	86.185%	95.705%
Range				

Sample Name: 198754-A-1-A@1000 Acquired: 6/10/2022 13:27:48 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**-.03385**	**-.00025**	**-.00029**	**.00007**
Stddev	.00095	.00722	.00092	.00005	.00004
%RSD	246.09	21.316	367.55	15.942	56.165
#1	.00029	-.02875	-.00090	-.00032	.00004
#2	-.00106	-.03896	.00040	-.00025	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**.00596**	**-.00009**	**-.0915**	**.00002**
Stddev	.00003	.00194	.00008	.1748	.00003
%RSD	7.1079	32.644	83.779	190.9	134.53
#1	.00046	.00458	-.00004	.0320	.00000
#2	.00041	.00733	-.00015	-.2151	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00075**	**-.00249**	**.02333**	**.00127**
Stddev	.00011	.00021	.00198	.00815	.00153
%RSD	60.320	27.615	79.716	34.926	120.60
#1	-.00026	-.00060	-.00389	.01757	.00235
#2	-.00010	-.00089	-.00109	.02909	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 198754-A-1-A@1000 Acquired: 6/10/2022 13:27:48 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00179**	**-.00003**	**-.00175**	**.26615**	**.00012**
Stddev	.00173	.00003	.00012	.01011	.00002
%RSD	96.592	81.226	6.7245	3.7991	13.561
#1	-.00057	-.00001	-.00183	.27330	.00011
#2	-.00302	-.00005	-.00166	.25900	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00115**	**.02204**	**-.00302**	**-.00295**
Stddev	.00	.00072	.00315	.00173	.00387
%RSD	.0072	62.890	14.272	57.373	131.49
#1	25.00	.00167	.02426	-.00424	-.00021
#2	25.01	.00064	.01981	-.00179	-.00569
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1455**	**-.00052**	**-.00006**	**.9976**	**.30197**
Stddev	.0024	.00024	.00011	.0052	.00096
%RSD	.21204	45.794	185.46	.5244	.31797
#1	1.1438	-.00069	.00002	.9939	.30129
#2	1.1473	-.00035	-.00013	1.001	.30265
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 198754-A-1-A@1000 Acquired: 6/10/2022 13:27:48 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00465**	**3.4404**	**-.00239**	**.9990**
Stddev	.00000	.0034	.00036	.0000
%RSD	.02867	.10027	15.033	.0025
#1	-.00465	3.4380	-.00264	.9990
#2	-.00465	3.4429	-.00213	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3906.2**	**3529.4**	**71607.**	**5510.0**
Stddev	.3	2.6	112.	10.0
%RSD	.00841	.07345	.15628	.18223
#1	3905.9	3527.5	71686.	5517.1
#2	3906.4	3531.2	71528.	5502.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.052%	98.059%	97.907%	95.721%
Range				

Sample Name: MB 480-628589/1-A Acquired: 6/10/2022 13:31:40 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**-.01811**	**.00068**	**.00061**	**.00006**
Stddev	.00048	.00700	.00151	.00014	.00001
%RSD	393.35	38.679	221.94	22.266	25.121
#1	-.00022	-.01316	.00175	.00052	.00007
#2	.00046	-.02306	-.00039	.00071	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.02228**	**-.00019**	**.1043**	**.00003**
Stddev	.00005	.00016	.00008	.1167	.00001
%RSD	75.632	.71837	43.356	111.9	19.794
#1	.00009	.02240	-.00013	.0218	.00004
#2	.00003	.02217	-.00024	.1868	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**-.00054**	**.00243**	**-.00555**	**.00009**
Stddev	.00010	.00030	.00022	.02802	.00189
%RSD	39.525	54.661	9.2046	504.80	2143.3
#1	.00019	-.00075	.00259	-.02537	-.00125
#2	.00034	-.00033	.00228	.01426	.00142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-628589/1-A Acquired: 6/10/2022 13:31:40 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00138**	**-.00008**	**-.00114**	**.17040**	**.00023**
Stddev	.00021	.00005	.00017	.00209	.00013
%RSD	14.854	58.048	14.762	1.2241	55.914
#1	-.00153	-.00005	-.00126	.16893	.00032
#2	-.00124	-.00011	-.00102	.17188	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00030**	**.02387**	**-.00096**	**-.00195**
Stddev	.00	.00116	.00163	.00034	.00381
%RSD	.0013	380.68	6.8382	35.489	194.97
#1	25.00	.00112	.02502	-.00072	-.00464
#2	25.00	-.00052	.02271	-.00120	.00074
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01580**	**-.00052**	**-.00005**	**1.001**	**-.00026**
Stddev	.00444	.00029	.00008	.001	.00010
%RSD	28.125	55.429	163.06	.1054	38.231
#1	-.01265	-.00032	.00001	1.001	-.00033
#2	-.01894	-.00073	-.00010	1.002	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-628589/1-A Acquired: 6/10/2022 13:31:40 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00017**	**.00010**	**-.00250**	**.9988**
Stddev	.00110	.00006	.00008	.0005
%RSD	648.47	62.821	3.3709	.0457
#1	-.00061	.00006	-.00244	.9992
#2	.00094	.00015	-.00256	.9985
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3999.2**	**3621.2**	**73440.**	**5820.6**
Stddev	5.2	.9	144.	.3
%RSD	.12919	.02425	.19600	.00480
#1	4002.8	3621.8	73339.	5820.4
#2	3995.5	3620.6	73542.	5820.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.363%	100.61%	100.41%	101.12%
Range				

Sample Name: LCS 480-628589/2-A Acquired: 6/10/2022 13:35:33 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04718**	**9.9906**	**.20365**	**.20329**	**.21191**
Stddev	.00022	.0417	.00059	.00007	.00013
%RSD	.45745	.41778	.28891	.03674	.06148
#1	.04734	9.9611	.20324	.20324	.21200
#2	.04703	10.020	.20407	.20334	.21182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20986**	**10.073**	**.20143**	**.0986**	**.20332**
Stddev	.00110	.031	.00005	.0126	.00031
%RSD	.52182	.30710	.02449	12.83	.15005
#1	.20908	10.051	.20147	.0896	.20310
#2	.21063	10.094	.20140	.1075	.20353
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20254**	**.20488**	**10.240**	**9.8187**	**.19392**
Stddev	.00020	.00020	.047	.0656	.00159
%RSD	.09879	.09838	.45900	.66782	.81926
#1	.20240	.20474	10.207	9.7724	.19279
#2	.20268	.20502	10.273	9.8651	.19504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-628589/2-A Acquired: 6/10/2022 13:35:33 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.254**	**.21190**	**.20516**	**9.9021**	**.19813**
Stddev	.001	.00016	.00034	.0233	.00008
%RSD	.00970	.07780	.16608	.23515	.04203
#1	10.255	.21201	.20540	9.8856	.19807
#2	10.253	.21178	.20492	9.9186	.19819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.20219**	**9.8138**	**.20882**	**.19441**
Stddev	.00	.00031	.0124	.00125	.00072
%RSD	.0012	.15380	.12634	.59986	.37218
#1	25.00	.20241	9.8226	.20794	.19390
#2	25.00	.20197	9.8051	.20971	.19493
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5192**	F **.24271**	**.20512**	**1.003**	**.20129**
Stddev	.0477	.00000	.00095	.002	.00055
%RSD	.50128	.00015	.46338	.1942	.27572
#1	9.4854	.24271	.20445	1.004	.20168
#2	9.5529	.24271	.20579	1.001	.20090
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: LCS 480-628589/2-A Acquired: 6/10/2022 13:35:33 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20989**	**.19934**	**.20272**	**1.0000**
Stddev	.00192	.00026	.00110	.0003
%RSD	.91708	.13107	.54153	.0266
#1	.20853	.19952	.20350	1.000
#2	.21125	.19915	.20195	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3712.2**	**3500.9**	**70912.**	**5730.2**
Stddev	.7	4.3	149.	14.5
%RSD	.01820	.12238	.20967	.25381
#1	3712.7	3497.9	70807.	5740.5
#2	3711.8	3504.0	71017.	5719.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.234%	97.269%	96.957%	99.546%
Range				

Sample Name: 480-198723-D-1-A Acquired: 6/10/2022 13:39:14 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.00412**	**.00018**	**.02978**	**.07357**
Stddev	.00076	.00776	.00215	.00003	.00004
%RSD	282.61	188.25	1196.5	.10760	.05612
#1	.00080	.00961	.00170	.02975	.07354
#2	-.00027	-.00137	-.00134	.02980	.07360
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**108.84**	**.00007**	**.1543**	**-.00033**
Stddev	.00006	.06	.00017	.0948	.00001
%RSD	66.269	.05848	254.25	61.41	1.8939
#1	.00005	108.89	.00019	.2213	-.00034
#2	.00014	108.80	-.00005	.0873	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**-.00235**	**.00133**	**1.6989**	**.02729**
Stddev	.00018	.00060	.00225	.0611	.00092
%RSD	39.615	25.723	169.32	3.5938	3.3837
#1	.00033	-.00192	.00292	1.6557	.02664
#2	.00058	-.00278	-.00026	1.7421	.02794
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198723-D-1-A Acquired: 6/10/2022 13:39:14 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**74.753**	**-.00007**	**.00789**	**23.716**	**.00300**
Stddev	.089	.00005	.00016	.062	.00005
%RSD	.11910	80.632	2.0143	.25999	1.5620
#1	74.816	-.00003	.00778	23.759	.00297
#2	74.690	-.00010	.00800	23.672	.00304
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00239**	**47.426**	**-.00452**	**-.00386**
Stddev	.00	.00071	.037	.00194	.00050
%RSD	.0049	29.648	.07799	42.868	13.065
#1	25.01	.00189	47.452	-.00589	-.00350
#2	25.00	.00289	47.400	-.00315	-.00422
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7384**	**-.00083**	**1.0099**	**1.001**	**.00006**
Stddev	.0127	.00070	.0006	.006	.00008
%RSD	.13010	84.130	.05442	.5787	141.71
#1	9.7474	-.00034	1.0103	.9970	-.00000
#2	9.7294	-.00133	1.0095	1.005	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198723-D-1-A Acquired: 6/10/2022 13:39:14 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	.00231	.00019	-.00018	.9989
Stddev	.00002	.00018	.00032	.0002
%RSD	.85879	92.603	178.96	.0175
#1	.00229	.00031	-.00041	.9988
#2	.00232	.00007	.00005	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3506.1	3386.1	69099.	5697.3
Stddev	1.9	2.7	98.	4.7
%RSD	.05335	.08072	.14185	.08238
#1	3504.7	3388.0	69030.	5693.9
#2	3507.4	3384.1	69168.	5700.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.111%	94.077%	94.478%	98.974%
Range				

Sample Name: 480-198719-E-1-A Acquired: 6/10/2022 13:43:04 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**2.1446**	**.00067**	**.02461**	**.07664**
Stddev	.00034	.0103	.00189	.00057	.00001
%RSD	118.02	.47965	280.01	2.3274	.00924
#1	.00005	2.1518	-.00066	.02502	.07664
#2	.00052	2.1373	.00201	.02421	.07663
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**74.633**	**.00015**	**.1091**	**-.00008**
Stddev	.00001	.192	.00032	.0543	.00001
%RSD	7.5363	.25671	211.85	49.72	16.728
#1	.00010	74.769	.00038	.0708	-.00007
#2	.00012	74.498	-.00008	.1475	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00272**	**.00013**	**.72505**	**1.4325**	**.02219**
Stddev	.00051	.00000	.00077	.0260	.00081
%RSD	18.687	3.7403	.10632	1.8114	3.6596
#1	.00236	.00012	.72451	1.4141	.02162
#2	.00308	.00013	.72560	1.4508	.02277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198719-E-1-A Acquired: 6/10/2022 13:43:04 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**62.491**	**.01097**	**.00241**	**29.152**	**.00145**
Stddev	.092	.00009	.00025	.078	.00035
%RSD	.14780	.82573	10.396	.26694	24.093
#1	62.425	.01091	.00259	29.207	.00170
#2	62.556	.01104	.00223	29.096	.00120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00389**	**11.587**	**-.00372**	**-.00562**
Stddev	.00	.00021	.011	.00132	.00087
%RSD	.0001	5.2875	.09750	35.436	15.505
#1	25.01	.00375	11.579	-.00465	-.00623
#2	25.01	.00404	11.595	-.00279	-.00500
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.309**	**.00002**	**.90173**	**.9994**	**.04778**
Stddev	.065	.00018	.00251	.0004	.00071
%RSD	.63243	750.80	.27846	.0402	1.4927
#1	10.355	-.00011	.90350	.9991	.04727
#2	10.263	.00016	.89995	.9997	.04828
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198719-E-1-A Acquired: 6/10/2022 13:43:04 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00081**	**.00410**	**.00133**	**.9999**
Stddev	.00029	.00006	.00054	.0000
%RSD	36.452	1.4898	40.164	.0029
#1	.00101	.00414	.00171	.9999
#2	.00060	.00405	.00096	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3462.8**	**3364.8**	**68162.**	**5599.9**
Stddev	3.5	2.7	201.	8.8
%RSD	.10149	.08107	.29451	.15799
#1	3460.3	3366.7	68304.	5593.6
#2	3465.3	3362.9	68020.	5606.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.037%	93.486%	93.197%	97.282%
Range				

Sample Name: CCV-7024752 Acquired: 6/10/2022 13:46:55 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97238**	**49.892**	**1.0063**	**1.0434**	**1.0313**
Stddev	.00015	.041	.0044	.0010	.0002
%RSD	.01577	.08156	.43650	.09060	.01732
#1	.97227	49.863	1.0094	1.0427	1.0311
#2	.97248	49.921	1.0032	1.0440	1.0314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0171**	**50.132**	**1.0236**	**1.274**	**1.0182**
Stddev	.0005	.005	.0002	.154	.0014
%RSD	.05166	.00996	.01647	12.09	.14227
#1	1.0168	50.136	1.0235	1.165	1.0192
#2	1.0175	50.129	1.0237	1.383	1.0172
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99745**	**.98959**	**51.016**	**50.564**	**.98935**
Stddev	.00198	.00113	.084	.044	.00032
%RSD	.19810	.11443	.16495	.08677	.03252
#1	.99885	.98879	51.076	50.533	.98958
#2	.99606	.99039	50.957	50.595	.98913
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 13:46:55 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.356**	**1.0065**	**1.0074**	**50.764**	**1.0059**
Stddev	.021	.0003	.0023	.019	.0009
%RSD	.04331	.03008	.23240	.03670	.09020
#1	49.341	1.0063	1.0091	50.751	1.0066
#2	49.371	1.0067	1.0058	50.777	1.0053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.94**	**1.0162**	**25.326**	**.99006**	**.99471**
Stddev	.00	.0010	.001	.00094	.00341
%RSD	.0037	.10011	.00313	.09446	.34259
#1	37.94	1.0169	25.327	.98940	.99712
#2	37.94	1.0155	25.326	.99072	.99230
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9154**	**1.0167**	**1.0080**	**1.506**	**.99567**
Stddev	.0170	.0007	.0004	.001	.00022
%RSD	.17188	.06919	.03897	.0667	.02219
#1	9.9034	1.0172	1.0083	1.506	.99582
#2	9.9275	1.0162	1.0077	1.507	.99551
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 13:46:55 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0215**	**.99900**	**1.0478**	**1.510**
Stddev	.0015	.00160	.0018	.000
%RSD	.14252	.16027	.16771	.0295
#1	1.0225	.99786	1.0491	1.510
#2	1.0205	1.0001	1.0466	1.511
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3364.2**	**3356.7**	**67134.**	**5436.2**
Stddev	1.1	.2	93.	1.9
%RSD	.03338	.00724	.13852	.03532
#1	3363.4	3356.9	67200.	5434.8
#2	3365.0	3356.6	67069.	5437.6

Sample Name: CCB-7026764 Acquired: 6/10/2022 13:50:35 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00163**	**-.00025**	**.00075**	**.00004**
Stddev	.00041	.00147	.00101	.00005	.00000
%RSD	327.54	90.242	397.41	6.5474	6.3044
#1	.00017	.00267	-.00097	.00079	.00004
#2	-.00042	.00059	.00046	.00072	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00035**	**-.00010**	**.0670**	**.00004**
Stddev	.00005	.00409	.00005	.1526	.00001
%RSD	55.098	1177.7	53.305	227.8	17.784
#1	.00006	-.00254	-.00006	.1749	.00003
#2	.00013	.00324	-.00013	-.0409	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.00011**	**.00562**	**.03071**	**-.00091**
Stddev	.00017	.00042	.00145	.00083	.00108
%RSD	100.36	373.72	25.837	2.7045	119.09
#1	.00028	.00041	.00665	.03012	-.00168
#2	.00005	-.00019	.00460	.03130	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 13:50:35 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00010**	**.00189**	**.06100**	**.00011**
Stddev	.00014	.00005	.00016	.00174	.00008
%RSD	47.180	49.722	8.2600	2.8520	68.370
#1	-.00019	.00014	.00178	.05977	.00006
#2	-.00038	.00007	.00200	.06223	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00033**	**.00346**	**-.00306**	**.00366**
Stddev	.00	.00073	.00142	.00062	.00397
%RSD	.0057	219.81	41.113	20.370	108.38
#1	25.00	-.00018	.00245	-.00262	.00086
#2	25.00	.00085	.00447	-.00350	.00647
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00824**	**-.00045**	**-.00013**	**1.004**	**.00015**
Stddev	.02168	.00028	.00006	.000	.00018
%RSD	262.93	63.712	45.976	.0019	123.68
#1	-.02357	-.00065	-.00017	1.004	.00027
#2	.00708	-.00024	-.00009	1.004	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 13:50:35 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.00003**	**-.00050**	**.9997**
Stddev	.00055	.00002	.00001	.0006
%RSD	152.72	68.908	2.3982	.0623
#1	.00003	.00001	-.00049	.9992
#2	-.00075	.00004	-.00051	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3961.1**	**3574.3**	**72579.**	**5641.8**
Stddev	6.3	4.4	74.	9.3
%RSD	.15898	.12221	.10209	.16555
#1	3956.6	3571.3	72527.	5635.2
#2	3965.5	3577.4	72632.	5648.4

Sample Name: CCVL-7028546 Acquired: 6/10/2022 13:54:29 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00549**	**.18336**	**.01324**	**.01924**	**.00212**
Stddev	.00006	.01559	.00093	.00019	.00001
%RSD	1.0704	8.5038	7.0577	.96217	.44947
#1	.00545	.19438	.01258	.01911	.00213
#2	.00553	.17233	.01390	.01937	.00211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00204**	**.49763**	**.00191**	**.1105**	**.00389**
Stddev	.00000	.00425	.00003	.0638	.00008
%RSD	.06714	.85431	1.8114	57.71	1.9863
#1	.00204	.50063	.00189	.0654	.00394
#2	.00204	.49462	.00193	.1556	.00383
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00403**	**.01032**	**.05052**	**.49685**	**.02598**
Stddev	.00029	.00034	.00082	.00953	.00100
%RSD	7.0965	3.3065	1.6321	1.9182	3.8456
#1	.00423	.01008	.04994	.50359	.02527
#2	.00382	.01057	.05111	.49011	.02669
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/10/2022 13:54:29 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18842**	**.00342**	**.00926**	**1.0035**	**.00944**
Stddev	.00225	.00007	.00029	.0014	.00005
%RSD	1.1966	2.1063	3.1017	.13589	.54011
#1	.18682	.00337	.00906	1.0045	.00947
#2	.19001	.00347	.00947	1.0026	.00940
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01066**	**.19246**	**.01435**	**.01837**
Stddev	.00	.00048	.00212	.00033	.00139
%RSD	.0019	4.4615	1.0997	2.3315	7.5639
#1	25.00	.01032	.19396	.01411	.01739
#2	25.00	.01100	.19097	.01458	.01935
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44230**	**.00876**	**.00491**	F **1.004**	**.00434**
Stddev	.00056	.00035	.00000	.002	.00035
%RSD	.12583	3.9417	.01789	.1811	8.0901
#1	.44269	.00901	.00491	1.005	.00409
#2	.44190	.00852	.00491	1.003	.00458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/10/2022 13:54:29 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02003**	**.00480**	**.00870**	F **.9996**
Stddev	.00053	.00028	.00006	.0001
%RSD	2.6318	5.7794	.72414	.0143
#1	.01966	.00500	.00875	.9995
#2	.02040	.00460	.00866	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3950.4**	**3585.2**	**72570.**	**5697.4**
Stddev	2.9	6.1	69.	9.2
%RSD	.07335	.17059	.09500	.16196
#1	3952.4	3589.5	72619.	5690.9
#2	3948.3	3580.9	72522.	5703.9

Sample Name: 480-198720-D-1-A Acquired: 6/10/2022 13:58:22 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**8.7483**	**.00537**	**.01353**	**.43829**
Stddev	.00006	.0492	.00166	.00020	.00027
%RSD	25.884	.56211	30.957	1.5013	.06087
#1	.00019	8.7830	.00654	.01338	.43848
#2	.00027	8.7135	.00419	.01367	.43810
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**89.272**	**.00038**	**.1931**	**.00589**
Stddev	.00005	.402	.00000	.0428	.00016
%RSD	7.6285	.45058	.77841	22.14	2.7776
#1	.00075	89.557	.00038	.2233	.00577
#2	.00068	88.988	.00037	.1629	.00600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01428**	**.04075**	**10.722**	**2.8428**	**.02264**
Stddev	.00022	.00063	.068	.0019	.00056
%RSD	1.5463	1.5447	.63451	.06615	2.4677
#1	.01413	.04120	10.770	2.8414	.02225
#2	.01444	.04031	10.674	2.8441	.02304
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-D-1-A Acquired: 6/10/2022 13:58:22 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.088**	**5.2964**	**-.00085**	**4.1284**	**.01427**
Stddev	.021	.0026	.00027	.0009	.00003
%RSD	.13829	.04969	32.137	.02081	.23716
#1	15.103	5.2983	-.00104	4.1290	.01429
#2	15.074	5.2945	-.00066	4.1278	.01424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.42**	**.01025**	**4.3572**	**-.00296**	**-.00693**
Stddev	.00	.00088	.0018	.00203	.00051
%RSD	.0035	8.5600	.04173	68.494	7.4016
#1	25.42	.00963	4.3560	-.00153	-.00657
#2	25.41	.01087	4.3585	-.00440	-.00729
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.548**	**-.00008**	**.14205**	**1.011**	**.05904**
Stddev	.015	.00082	.00018	.003	.00162
%RSD	.10151	999.70	.12580	.2717	2.7475
#1	14.537	.00050	.14217	1.009	.05789
#2	14.558	-.00066	.14192	1.013	.06019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-D-1-A Acquired: 6/10/2022 13:58:22 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00170**	**.01145**	**.05335**	**1.001**
Stddev	.00059	.00005	.00029	.001
%RSD	34.842	.42633	.54918	.0490
#1	-.00212	.01148	.05356	1.002
#2	-.00128	.01141	.05315	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3617.6**	**3515.2**	**70992.**	**5856.2**
Stddev	1.4	2.5	86.	41.6
%RSD	.03902	.07216	.12177	.71005
#1	3616.6	3517.0	70931.	5826.8
#2	3618.6	3513.4	71053.	5885.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.882%	97.665%	97.066%	101.74%
Range				

Sample Name: 480-198720-D-2-A Acquired: 6/10/2022 14:02:19 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**5.0370**	**.00307**	**.01292**	**.21204**
Stddev	.00034	.0034	.00119	.00045	.00021
%RSD	59.665	.06727	38.845	3.5112	.09690
#1	.00082	5.0394	.00223	.01260	.21218
#2	.00033	5.0346	.00391	.01324	.21189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**47.116**	**.00010**	**.1723**	**.00269**
Stddev	.00002	.153	.00001	.1019	.00010
%RSD	6.8602	.32520	12.487	59.18	3.5697
#1	.00027	47.008	.00009	.2444	.00262
#2	.00025	47.224	.00011	.1002	.00276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00653**	**.00435**	**6.8452**	**1.9905**	**.01307**
Stddev	.00022	.00009	.0369	.0134	.00207
%RSD	3.4340	2.0479	.53953	.67354	15.842
#1	.00638	.00429	6.8191	2.0000	.01453
#2	.00669	.00442	6.8714	1.9810	.01161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-D-2-A Acquired: 6/10/2022 14:02:19 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.768**	**.53938**	**-.00083**	**4.9773**	**.00680**
Stddev	.004	.00039	.00007	.0125	.00010
%RSD	.03353	.07236	8.0809	.25084	1.5289
#1	11.771	.53965	-.00087	4.9685	.00688
#2	11.766	.53910	-.00078	4.9862	.00673
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**.00903**	**4.6788**	**-.00317**	**-.00851**
Stddev	.00	.00005	.0010	.00114	.00053
%RSD	.0002	.59234	.02155	35.964	6.1823
#1	25.12	.00900	4.6795	-.00398	-.00888
#2	25.12	.00907	4.6781	-.00237	-.00814
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.002**	**-.00034**	**.08780**	**1.002**	**.05470**
Stddev	.091	.00084	.00006	.001	.00101
%RSD	.82504	243.55	.07239	.1251	1.8458
#1	10.938	.00025	.08776	1.003	.05398
#2	11.066	-.00094	.08785	1.001	.05541
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-D-2-A Acquired: 6/10/2022 14:02:19 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00713**	**.01497**	**1.000**
Stddev	.00027	.00003	.00081	.000
%RSD	45.758	.47790	5.4405	.0167
#1	.00040	.00716	.01439	1.000
#2	.00079	.00711	.01555	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3734.7**	**3547.4**	**71495.**	**5799.3**
Stddev	2.7	1.9	3.	34.5
%RSD	.07278	.05277	.00449	.59561
#1	3732.8	3546.1	71493.	5823.7
#2	3736.6	3548.8	71497.	5774.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.792%	98.560%	97.754%	100.75%
Range				

Sample Name: 480-198720-D-3-A Acquired: 6/10/2022 14:06:07 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00129**	**1.3705**	**.00441**	**.01640**	**.23535**
Stddev	.00012	.0233	.00200	.00078	.00027
%RSD	9.6055	1.7034	45.299	4.7563	.11297
#1	.00138	1.3540	.00583	.01585	.23554
#2	.00120	1.3871	.00300	.01696	.23516
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**32.428**	**.00008**	**.4094**	**.00017**
Stddev	.00004	.014	.00009	.0198	.00012
%RSD	26.470	.04396	110.99	4.826	72.251
#1	.00013	32.418	.00002	.3954	.00008
#2	.00018	32.438	.00014	.4234	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00095**	**.00021**	**1.1580**	**.74966**	**.00748**
Stddev	.00022	.00066	.0024	.00721	.00053
%RSD	23.757	319.56	.20976	.96168	7.1309
#1	.00079	.00067	1.1563	.75476	.00786
#2	.00110	-.00026	1.1597	.74456	.00710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-D-3-A Acquired: 6/10/2022 14:06:07 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.5332**	**.57667**	**-.00072**	**8.1643**	**.00072**
Stddev	.0201	.00110	.00019	.0141	.00020
%RSD	.26735	.19154	26.990	.17230	28.002
#1	7.5474	.57745	-.00085	8.1742	.00086
#2	7.5189	.57589	-.00058	8.1543	.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00325**	**3.0930**	**-.00331**	**-.00381**
Stddev	.00	.00034	.0019	.00100	.00063
%RSD	.0029	10.442	.06319	30.243	16.645
#1	25.02	.00348	3.0944	-.00402	-.00336
#2	25.02	.00301	3.0917	-.00260	-.00425
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.1060**	**-.00026**	**.07754**	**1.003**	**.01922**
Stddev	.0059	.00020	.00003	.003	.00132
%RSD	.08239	75.091	.04081	.2566	6.8699
#1	7.1101	-.00040	.07752	1.005	.02015
#2	7.1018	-.00012	.07756	1.001	.01829
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-D-3-A Acquired: 6/10/2022 14:06:07 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.00076**	**.01054**	**.9995**
Stddev	.00052	.00001	.00031	.0002
%RSD	73.147	.91990	2.9356	.0218
#1	-.00108	.00075	.01076	.9994
#2	-.00034	.00076	.01032	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3796.6**	**3568.5**	**72065.**	**5757.8**
Stddev	3.7	1.9	58.	7.7
%RSD	.09834	.05189	.08064	.13400
#1	3794.0	3569.8	72024.	5752.3
#2	3799.2	3567.2	72107.	5763.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.330%	99.145%	98.534%	100.03%
Range				

Sample Name: 480-198720-D-4-A Acquired: 6/10/2022 14:09:55 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**4.6206**	**.00336**	**.01272**	**.21222**
Stddev	.00054	.0270	.00141	.00038	.00006
%RSD	60.137	.58440	41.887	2.9695	.02806
#1	.00052	4.6397	.00435	.01246	.21218
#2	.00128	4.6015	.00236	.01299	.21226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**47.279**	**.00009**	**.1818**	**.00253**
Stddev	.00009	.096	.00022	.0410	.00009
%RSD	32.384	.20259	246.42	22.57	3.6140
#1	.00034	47.211	-.00007	.1528	.00247
#2	.00021	47.346	.00024	.2109	.00260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00637**	**.00441**	**6.3015**	**1.9112**	**.01411**
Stddev	.00002	.00001	.0037	.0281	.00062
%RSD	.27195	.27921	.05829	1.4679	4.3654
#1	.00639	.00442	6.3040	1.8914	.01367
#2	.00636	.00440	6.2989	1.9311	.01454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-D-4-A Acquired: 6/10/2022 14:09:55 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.558**	**.52562**	**-.00106**	**5.0950**	**.00621**
Stddev	.029	.00005	.00013	.0022	.00007
%RSD	.24880	.00986	11.943	.04223	1.1832
#1	11.579	.52558	-.00097	5.0934	.00616
#2	11.538	.52566	-.00115	5.0965	.00626
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.11**	**.00906**	**4.7078**	**-.00091**	**-.00646**
Stddev	.00	.00098	.0045	.00328	.00198
%RSD	.0007	10.860	.09640	361.67	30.639
#1	25.11	.00975	4.7046	-.00323	-.00506
#2	25.11	.00836	4.7110	.00141	-.00785
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.488**	**-.00039**	**.08799**	**1.005**	**.05311**
Stddev	.009	.00066	.00017	.001	.00498
%RSD	.08642	168.52	.19242	.0989	9.3707
#1	10.495	.00008	.08811	1.006	.05663
#2	10.482	-.00086	.08787	1.005	.04959
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-D-4-A Acquired: 6/10/2022 14:09:55 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00644**	**.01468**	**1.001**
Stddev	.00071	.00051	.00042	.000
%RSD	550.71	7.9807	2.8741	.0215
#1	.00063	.00680	.01438	1.001
#2	-.00037	.00607	.01498	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3754.9**	**3568.5**	**72393.**	**5763.3**
Stddev	3.4	1.6	174.	5.5
%RSD	.08949	.04420	.24002	.09519
#1	3757.3	3569.6	72270.	5767.2
#2	3752.5	3567.4	72516.	5759.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.293%	99.146%	98.982%	100.12%
Range				

Sample Name: CCV-7024752 Acquired: 6/10/2022 14:47:50 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.92604**	**47.848**	**.97673**	**1.0112**	**.99939**
Stddev	.00370	.270	.00298	.0007	.00550
%RSD	.39979	.56494	.30513	.06978	.55051
#1	.92866	48.039	.97883	1.0107	1.0033
#2	.92343	47.657	.97462	1.0117	.99550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98029**	**48.468**	**.99543**	**1.331**	**.99519**
Stddev	.00550	.305	.00009	.102	.00107
%RSD	.56067	.62893	.00894	7.654	.10707
#1	.98418	48.684	.99537	1.404	.99595
#2	.97641	48.253	.99550	1.259	.99444
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94865**	**.95196**	**50.046**	**48.880**	**.94465**
Stddev	.00383	.00194	.131	.186	.00624
%RSD	.40403	.20396	.26239	.38033	.66027
#1	.95136	.95333	50.139	49.011	.94906
#2	.94594	.95058	49.953	48.748	.94024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 14:47:50 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.573**	**.97718**	**.96930**	**48.935**	**.97932**
Stddev	.165	.00272	.00237	.294	.00180
%RSD	.34757	.27861	.24399	.59985	.18345
#1	47.690	.97911	.97097	49.143	.98059
#2	47.456	.97526	.96763	48.728	.97805
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.66**	**.99134**	**24.686**	**.94694**	**.96352**
Stddev	.01	.00250	.039	.00026	.00440
%RSD	.0292	.25258	.15680	.02704	.45663
#1	37.67	.99311	24.714	.94712	.96663
#2	37.65	.98957	24.659	.94676	.96041
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6048**	**.99505**	**.98034**	**1.493**	**.95715**
Stddev	.0384	.00045	.00506	.011	.00183
%RSD	.39934	.04548	.51609	.7480	.19082
#1	9.6319	.99473	.98392	1.500	.95844
#2	9.5777	.99537	.97677	1.485	.95586
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 14:47:50 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99690**	**.96342**	**1.0254**	**1.495**
Stddev	.00158	.00278	.0042	.003
%RSD	.15868	.28810	.40982	.1687
#1	.99802	.96538	1.0284	1.497
#2	.99578	.96146	1.0225	1.493
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3436.6**	**3448.1**	**68480.**	**5542.3**
Stddev	10.0	10.0	220.	28.8
%RSD	.29220	.29095	.32094	.51890
#1	3429.5	3441.0	68324.	5522.0
#2	3443.7	3455.1	68635.	5562.7

Sample Name: CCB-7019497 Acquired: 6/10/2022 14:51:30 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**-.00797**	**.00150**	**.00070**	**.00005**
Stddev	.00088	.00646	.00237	.00065	.00002
%RSD	215.69	81.051	158.45	92.567	38.402
#1	.00103	-.01253	-.00018	.00024	.00003
#2	-.00021	-.00340	.00318	.00116	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**-.00029**	**-.00001**	**.1208**	**.00010**
Stddev	.00006	.00020	.00016	.1169	.00013
%RSD	76.769	68.071	1316.4	96.77	121.74
#1	.00012	-.00015	.00010	.2035	.00019
#2	.00004	-.00043	-.00013	.0381	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00073**	**.00385**	**.00070**	**-.00135**
Stddev	.00027	.00038	.00244	.00070	.00176
%RSD	202.88	51.754	63.453	99.701	129.77
#1	-.00006	-.00099	.00212	.00021	-.00260
#2	.00032	-.00046	.00558	.00120	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7019497 Acquired: 6/10/2022 14:51:30 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00004**	**.00151**	**.01851**	**.00014**
Stddev	.00018	.00002	.00010	.00124	.00014
%RSD	59.469	42.110	6.5332	6.6971	94.861
#1	.00017	.00005	.00144	.01764	.00024
#2	.00042	.00003	.00158	.01939	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00101**	**.00188**	**-.00336**	**.00284**
Stddev	.00	.00018	.00185	.00043	.00079
%RSD	.0023	17.447	98.072	12.785	27.757
#1	25.00	.00089	.00058	-.00366	.00228
#2	25.00	.00114	.00319	-.00306	.00340
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00143**	**.00026**	**-.00010**	**1.004**	**.00008**
Stddev	.02105	.00058	.00004	.004	.00002
%RSD	1471.3	220.23	42.624	.3776	27.291
#1	-.01345	-.00015	-.00013	1.001	.00010
#2	.01632	.00068	-.00007	1.006	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7019497 Acquired: 6/10/2022 14:51:30 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00080**	**.00017**	**-.00118**	**.9990**
Stddev	.00059	.00009	.00029	.0002
%RSD	73.540	51.874	24.817	.0237
#1	.00039	.00024	-.00138	.9989
#2	.00122	.00011	-.00097	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3929.8**	**3568.1**	**72582.**	**5634.2**
Stddev	.3	1.0	97.	21.3
%RSD	.00807	.02846	.13393	.37828
#1	3929.6	3567.4	72651.	5649.3
#2	3930.0	3568.8	72513.	5619.1

Sample Name: CCVL-7028546 Acquired: 6/10/2022 14:59:22 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00602**	**.18703**	**.01317**	**.01923**	**.00213**
Stddev	.00043	.00386	.00013	.00010	.00001
%RSD	7.1910	2.0659	.97712	.53271	.56419
#1	.00571	.18430	.01308	.01931	.00214
#2	.00632	.18977	.01326	.01916	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.49700**	**.00187**	**.1724**	**.00386**
Stddev	.00001	.00421	.00022	.1712	.00016
%RSD	.61339	.84809	11.520	99.35	4.1830
#1	.00204	.49402	.00203	.0513	.00375
#2	.00206	.49998	.00172	.2934	.00397
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00403**	**.00964**	**.04976**	**.43659**	**.02669**
Stddev	.00004	.00013	.00078	.00838	.00075
%RSD	1.0634	1.3445	1.5624	1.9190	2.7925
#1	.00400	.00955	.05031	.44252	.02616
#2	.00406	.00973	.04921	.43067	.02721
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/10/2022 14:59:22 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18186**	**.00325**	**.00891**	**.98391**	**.00945**
Stddev	.00369	.00003	.00008	.00930	.00007
%RSD	2.0281	.83135	.88169	.94535	.69842
#1	.17926	.00324	.00886	.99048	.00941
#2	.18447	.00327	.00897	.97733	.00950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01055**	**.18766**	**.01607**	**.02061**
Stddev	.00	.00087	.00107	.00072	.00081
%RSD	.0004	8.2566	.57203	4.4855	3.9062
#1	25.00	.01117	.18842	.01658	.02004
#2	25.00	.00993	.18690	.01556	.02118
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44934**	**.00882**	**.00490**	F **1.004**	**.00436**
Stddev	.01301	.00030	.00004	.003	.00021
%RSD	2.8960	3.4195	.82918	.2665	4.7339
#1	.45854	.00903	.00493	1.006	.00421
#2	.44014	.00860	.00487	1.002	.00451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/10/2022 14:59:22 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01979**	**.00445**	**.00790**	F **.9999**
Stddev	.00003	.00001	.00036	.0001
%RSD	.16814	.12378	4.5591	.0126
#1	.01981	.00445	.00815	1.0000
#2	.01976	.00446	.00764	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3952.7**	**3581.2**	**73266.**	**5608.6**
Stddev	.6	.1	126.	12.4
%RSD	.01552	.00351	.17247	.22069
#1	3952.2	3581.3	73355.	5599.8
#2	3953.1	3581.1	73177.	5617.3

Sample Name: 480-198720-D-1-A Acquired: 6/10/2022 15:03:15 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**14.519**	**.00625**	**.01957**	**.47742**
Stddev	.00074	.021	.00091	.00140	.00320
%RSD	400.19	.14417	14.598	7.1683	.67052
#1	-.00034	14.534	.00560	.02056	.47516
#2	.00071	14.505	.00689	.01858	.47968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **.00076**	**88.804**	**.00037**	**.1480**	k **.00629**
Stddev	.00010	.235	.00014	.1698	.00054
%RSD	13.067	.26456	38.608	114.8	8.6638
#1	k .00069	88.638	.00027	.0279	k .00667
#2	.00083	88.970	.00048	.2680	.00590
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01949**	k **.03936**	**11.246**	**5.0372**	**.02468**
Stddev	.00032	.00052	.022	.0029	.00134
%RSD	1.6465	1.3268	.19878	.05699	5.4172
#1	.01927	k .03973	11.230	5.0352	.02374
#2	.01972	.03899	11.262	5.0392	.02563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-D-1-A Acquired: 6/10/2022 15:03:15 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.841**	**5.1635**	**-.00149**	**4.3218**	**.01440**
Stddev	.022	.0040	.00020	.0011	.00018
%RSD	.14549	.07701	13.684	.02499	1.2431
#1	14.826	5.1607	-.00163	4.3210	.01427
#2	14.857	5.1663	-.00134	4.3225	.01453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.42**	**.01231**	**4.3293**	**-.00553**	**-.00483**
Stddev	.00	.00017	.0228	.00209	.00419
%RSD	.0087	1.3578	.52678	37.880	86.697
#1	25.42	.01243	4.3132	-.00405	-.00187
#2	25.42	.01219	4.3455	-.00701	-.00780
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.977**	**-.00018**	**.14992**	**1.005**	^ *****
Stddev	.267	.00027	.00069	.002	-----
%RSD	.95568	156.21	.46091	.1493	-----
#1	27.788	-.00037	.14943	1.004	^ -----
#2	28.166	.00002	.15041	1.006	.52285
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-D-1-A Acquired: 6/10/2022 15:03:15 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	k **-.00199**	k **.02109**	**.05401**	**1.007**
Stddev	.00077	.00046	.00051	.002
%RSD	39.014	2.1726	.95047	.1744
#1	k -.00253	k .02141	.05365	1.006
#2	-.00144	.02076	.05437	1.008
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3590.5**	**3504.5**	**71859.**	**5798.2**
Stddev	19.7	19.7	161.	25.0
%RSD	.54832	.56316	.22406	.43032
#1	3604.4	3518.4	71973.	5815.9
#2	3576.5	3490.5	71746.	5780.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.208%	97.366%	98.252%	100.73%
Range				

Sample Name: 480-198720-D-2-A Acquired: 6/10/2022 15:07:13 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**5.8292**	**.00235**	**.01417**	**.21888**
Stddev	.00013	.0029	.00175	.00008	.00012
%RSD	26.986	.04999	74.701	.56156	.05628
#1	-.00057	5.8313	.00111	.01411	.21880
#2	-.00039	5.8272	.00359	.01422	.21897
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**46.849**	**.00006**	**.0671**	**.00291**
Stddev	.00001	.040	.00019	.0262	.00014
%RSD	3.7424	.08464	319.54	39.11	4.9529
#1	.00028	46.877	-.00008	.0857	.00301
#2	.00030	46.821	.00020	.0486	.00281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00718**	**.00405**	**6.9131**	**2.2635**	**.01386**
Stddev	.00008	.00039	.0030	.0274	.00024
%RSD	1.1104	9.5752	.04397	1.2122	1.7456
#1	.00712	.00377	6.9110	2.2441	.01403
#2	.00724	.00432	6.9153	2.2830	.01369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-D-2-A Acquired: 6/10/2022 15:07:13 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.619**	**.53793**	**-.00096**	**4.9673**	**.00704**
Stddev	.046	.00153	.00009	.0155	.00004
%RSD	.39277	.28356	9.4349	.31258	.51205
#1	11.587	.53685	-.00102	4.9783	.00707
#2	11.652	.53900	-.00089	4.9563	.00702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**.00941**	**4.6837**	**-.00157**	**-.00537**
Stddev	.00	.00013	.0027	.00216	.00129
%RSD	.0018	1.4092	.05732	137.75	23.986
#1	25.12	.00950	4.6856	-.00004	-.00628
#2	25.12	.00932	4.6818	-.00309	-.00446
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.536**	**-.00104**	**.08944**	**1.003**	**.16114**
Stddev	.092	.00036	.00026	.007	.00306
%RSD	.68222	34.480	.28511	.7069	1.8974
#1	13.602	-.00130	.08962	1.008	.16330
#2	13.471	-.00079	.08926	.9978	.15898
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-D-2-A Acquired: 6/10/2022 15:07:13 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00096**	**.00861**	**.01512**	**1.002**
Stddev	.00092	.00001	.00041	.000
%RSD	95.233	.16455	2.7118	.0098
#1	-.00161	.00862	.01541	1.002
#2	-.00031	.00860	.01483	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3709.7**	**3530.0**	**71634.**	**5758.1**
Stddev	2.9	4.0	115.	3.2
%RSD	.07735	.11419	.16048	.05521
#1	3707.6	3532.8	71715.	5755.9
#2	3711.7	3527.1	71552.	5760.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.170%	98.075%	97.944%	100.03%
Range				

Sample Name: 480-198720-D-3-A Acquired: 6/10/2022 15:11:02 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**1.4002**	**.00305**	**.01640**	**.23293**
Stddev	.00027	.0010	.00088	.00028	.00006
%RSD	43.849	.06929	28.891	1.6908	.02390
#1	.00042	1.4009	.00243	.01620	.23289
#2	.00080	1.3995	.00368	.01659	.23296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**32.206**	**.00019**	**.2269**	**.00021**
Stddev	.00004	.081	.00008	.0422	.00006
%RSD	24.923	.25038	41.576	18.59	30.470
#1	.00020	32.263	.00013	.2567	.00025
#2	.00014	32.149	.00024	.1971	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00103**	**.00042**	**1.1490**	**.72015**	**.00622**
Stddev	.00015	.00030	.0019	.00000	.00024
%RSD	14.558	72.431	.16943	.00042	3.8972
#1	.00114	.00063	1.1504	.72015	.00604
#2	.00093	.00020	1.1476	.72015	.00639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-D-3-A Acquired: 6/10/2022 15:11:02 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.4396**	**.57083**	**-.00062**	**8.0319**	**.00093**
Stddev	.0043	.00041	.00017	.0094	.00003
%RSD	.05707	.07244	27.577	.11638	3.6670
#1	7.4426	.57112	-.00074	8.0385	.00091
#2	7.4366	.57054	-.00050	8.0253	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00249**	**3.0875**	**-.00261**	**-.00690**
Stddev	.00	.00031	.0097	.00023	.00039
%RSD	.0025	12.601	.31319	8.6936	5.7095
#1	25.02	.00271	3.0807	-.00278	-.00662
#2	25.02	.00227	3.0943	-.00245	-.00718
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.1312**	**-.00023**	**.07664**	**1.002**	**.02090**
Stddev	.0048	.00012	.00022	.002	.00083
%RSD	.06688	51.767	.28788	.2291	3.9652
#1	7.1278	-.00015	.07680	1.003	.02148
#2	7.1346	-.00031	.07649	1.000	.02031
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-D-3-A Acquired: 6/10/2022 15:11:02 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00071**	**.00084**	**.01116**	**1.000**
Stddev	.00062	.00001	.00078	.000
%RSD	87.177	.83827	7.0106	.0035
#1	.00115	.00085	.01171	1.000
#2	.00027	.00084	.01061	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3816.1**	**3580.7**	**72854.**	**5859.3**
Stddev	4.6	.2	54.	36.2
%RSD	.12064	.00625	.07403	.61712
#1	3812.8	3580.9	72892.	5833.8
#2	3819.3	3580.5	72816.	5884.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.814%	99.485%	99.612%	101.79%
Range				

Sample Name: 480-198720-D-4-A Acquired: 6/10/2022 15:14:51 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**5.3409**	**.00366**	**.01421**	**.21910**
Stddev	.00016	.0054	.00136	.00072	.00055
%RSD	39.256	.10034	37.274	5.0824	.25074
#1	.00029	5.3447	.00270	.01370	.21949
#2	.00051	5.3371	.00462	.01472	.21871
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**47.862**	**.00009**	**.1069**	**.00237**
Stddev	.00002	.091	.00008	.0257	.00001
%RSD	7.2499	.19037	92.931	24.09	.52971
#1	.00029	47.926	.00003	.1251	.00236
#2	.00026	47.797	.00014	.0887	.00238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00720**	**.00439**	**6.4173**	**2.1236**	**.01397**
Stddev	.00008	.00043	.0041	.0320	.00139
%RSD	1.1368	9.8199	.06348	1.5085	9.9699
#1	.00714	.00408	6.4144	2.1009	.01495
#2	.00725	.00469	6.4202	2.1462	.01299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-D-4-A Acquired: 6/10/2022 15:14:51 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.700**	**.53417**	**-.00105**	**5.1129**	**.00644**
Stddev	.022	.00110	.00021	.0182	.00018
%RSD	.19029	.20503	20.263	.35613	2.7581
#1	11.716	.53495	-.00120	5.1258	.00657
#2	11.685	.53340	-.00090	5.1001	.00631
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**.00892**	**4.7772**	**-.00221**	**-.00478**
Stddev	.00	.00046	.0020	.00048	.00165
%RSD	.0009	5.1277	.04256	21.945	34.479
#1	25.12	.00860	4.7786	-.00255	-.00362
#2	25.12	.00925	4.7757	-.00187	-.00595
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.712**	**-.00050**	**.09007**	**1.002**	**.14233**
Stddev	.025	.00026	.00047	.006	.00915
%RSD	.19337	52.679	.51696	.5601	6.4317
#1	12.730	-.00068	.09040	.9982	.13585
#2	12.695	-.00031	.08974	1.006	.14880
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-D-4-A Acquired: 6/10/2022 15:14:51 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00054**	**.00785**	**.01427**	**1.002**
Stddev	.00049	.00020	.00076	.001
%RSD	91.956	2.4889	5.3170	.0766
#1	.00019	.00771	.01481	1.002
#2	.00089	.00799	.01373	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3705.5**	**3521.4**	**71499.**	**5731.6**
Stddev	3.6	2.5	70.	12.6
%RSD	.09610	.06977	.09758	.21929
#1	3703.0	3519.7	71450.	5740.5
#2	3708.0	3523.2	71548.	5722.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.066%	97.838%	97.759%	99.571%
Range				

Sample Name: 197352-1@50 tot Acquired: 6/10/2022 15:18:39 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00300**	**.02054**	**-.00136**	**.53737**	**.32359**
Stddev	.00118	.02548	.00120	.00055	.00084
%RSD	39.314	124.04	88.458	.10154	.25883
#1	.00384	.03856	-.00051	.53776	.32299
#2	.00217	.00252	-.00221	.53698	.32418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**888.28**	**.00007**	**.6712**	**-.00053**
Stddev	.00000	2.46	.00001	.2517	.00021
%RSD	1.7210	.27657	8.9835	37.50	39.123
#1	.00016	886.55	.00007	.8492	-.00068
#2	.00015	890.02	.00006	.4933	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.02674**	**2.0817**	**65.165**	**3.6224**
Stddev	.00006	.00018	.0043	.015	.0049
%RSD	15.244	.65800	.20611	.02298	.13490
#1	.00044	.02686	2.0787	65.155	3.6259
#2	.00035	.02661	2.0848	65.176	3.6190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 197352-1@50 tot Acquired: 6/10/2022 15:18:39 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**100.24**	**.15504**	**-.00188**	F **1094.3**	**.00061**
Stddev	.30	.00069	.00007	1.0	.00012
%RSD	.29874	.44732	3.7331	.08772	20.337
#1	100.02	.15455	-.00193	1095.0	.00070
#2	100.45	.15553	-.00183	1093.6	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.01341**	**.26847**	**-.00137**	**-.00703**
Stddev	.00	.00141	.00092	.00083	.00021
%RSD	.0038	10.487	.34212	60.817	2.9442
#1	25.00	.01242	.26912	-.00196	-.00717
#2	25.00	.01441	.26782	-.00078	-.00688
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01377**	**.00205**	F **58.164**	**.9956**	**.00359**
Stddev	.00226	.00012	.450	.0042	.00010
%RSD	16.431	5.8884	.77385	.4201	2.8135
#1	.01537	.00197	57.846	.9926	.00366
#2	.01217	.00214	58.482	.9985	.00352
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 197352-1@50 tot Acquired: 6/10/2022 15:18:39 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00886**	**-.00018**	**.00415**	**.9998**
Stddev	.00017	.00010	.00057	.0006
%RSD	1.8819	53.460	13.626	.0570
#1	.00874	-.00025	.00455	.9994
#2	.00898	-.00011	.00375	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2740.5**	**2937.9**	**59949.**	**5226.4**
Stddev	1.1	2.2	144.	20.1
%RSD	.03839	.07491	.24081	.38523
#1	2739.8	2939.5	60051.	5240.6
#2	2741.3	2936.4	59847.	5212.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.090%	81.626%	81.967%	90.794%
Range				

Sample Name: 197352-2@50 tot Acquired: 6/10/2022 15:22:44 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00103**	**.00402**	**.00282**	**.48133**	**.31328**
Stddev	.00095	.01439	.00268	.00035	.00001
%RSD	91.889	358.26	95.330	.07329	.00473
#1	.00036	-.00616	.00092	.48157	.31329
#2	.00170	.01419	.00471	.48108	.31327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**801.78**	**.00002**	**.3728**	**-.00026**
Stddev	.00007	.31	.00007	.0068	.00016
%RSD	127.87	.03926	421.43	1.829	58.983
#1	.00010	802.00	-.00003	.3777	-.00037
#2	.00001	801.56	.00006	.3680	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	F **-.01055**	**2.9699**	**54.095**	**3.5991**
Stddev	.00049	.00019	.0079	.114	.0027
%RSD	129.90	1.7919	.26727	.21070	.07561
#1	.00072	-.01068	2.9755	54.175	3.6010
#2	.00003	-.01041	2.9643	54.014	3.5971
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		23.000			
Low Limit		-.01000			

Sample Name: 197352-2@50 tot Acquired: 6/10/2022 15:22:44 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**90.914**	**.18352**	**-.00197**	F **1072.5**	**.00004**
Stddev	.136	.00028	.00015	.3	.00045
%RSD	.14994	.15220	7.6290	.02818	1034.5
#1	90.817	.18332	-.00208	1072.8	-.00028
#2	91.010	.18372	-.00186	1072.3	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00427**	**.23407**	**-.00214**	**-.01085**
Stddev	.00	.00151	.00445	.00089	.00280
%RSD	.0056	35.422	1.9009	41.633	25.820
#1	25.00	.00533	.23722	-.00276	-.00887
#2	25.00	.00320	.23093	-.00151	-.01283
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01786**	**-.00029**	F **55.228**	**1.003**	**.00342**
Stddev	.00586	.00000	.117	.002	.00042
%RSD	32.793	.94378	.21156	.1716	12.267
#1	-.01372	-.00029	55.311	1.005	.00312
#2	-.02200	-.00028	55.145	1.002	.00371
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 197352-2@50 tot Acquired: 6/10/2022 15:22:44 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00585**	**-.00030**	**-.00098**	**.9987**
Stddev	.00245	.00021	.00063	.0008
%RSD	41.872	69.340	64.361	.0753
#1	.00759	-.00016	-.00054	.9982
#2	.00412	-.00045	-.00143	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2775.8**	**2973.2**	**60723.**	**5353.8**
Stddev	.5	3.3	90.	16.7
%RSD	.01887	.10975	.14742	.31238
#1	2776.2	2975.5	60786.	5341.9
#2	2775.5	2970.9	60659.	5365.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.968%	82.606%	83.025%	93.007%
Range				

Sample Name: MB 480-628526/1-A Acquired: 6/10/2022 15:26:51 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**.01278**	**-.00130**	**.00096**	**.00034**
Stddev	.00030	.00360	.00022	.00040	.00001
%RSD	69.748	28.166	16.637	42.080	3.0893
#1	.00022	.01533	-.00115	.00125	.00035
#2	.00065	.01024	-.00146	.00068	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.08879**	**.00009**	**.2171**	**.00020**
Stddev	.00001	.00103	.00003	.0936	.00006
%RSD	11.464	1.1573	28.980	43.12	27.481
#1	.00011	.08952	.00007	.1509	.00024
#2	.00014	.08806	.00011	.2833	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.00035**	**.03811**	**.07166**	**-.00120**
Stddev	.00005	.00040	.00093	.01264	.00027
%RSD	12.999	112.86	2.4520	17.645	22.385
#1	.00034	.00063	.03877	.06272	-.00101
#2	.00041	.00007	.03745	.08060	-.00139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-628526/1-A Acquired: 6/10/2022 15:26:51 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00961**	**.00299**	**-.00162**	**.25367**	**.00050**
Stddev	.00090	.00007	.00008	.00448	.00036
%RSD	9.3242	2.4095	4.7131	1.7643	73.027
#1	.01025	.00294	-.00157	.25050	.00075
#2	.00898	.00304	-.00168	.25683	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00002**	**.03167**	**-.00144**	**-.00262**
Stddev	.00	.00062	.00053	.00022	.00209
%RSD	.0000	2705.0	1.6584	14.938	79.737
#1	25.00	.00046	.03130	-.00129	-.00114
#2	25.00	-.00042	.03205	-.00159	-.00410
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.00070**	**.00160**	**1.000**	**-.00014**
Stddev	.00394	.00010	.00005	.002	.00006
%RSD	3654.1	14.059	3.1374	.1501	39.731
#1	.00289	-.00076	.00163	.9990	-.00018
#2	-.00268	-.00063	.00156	1.001	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-628526/1-A Acquired: 6/10/2022 15:26:51 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00041**	**-.00018**	**.00730**	**.9993**
Stddev	.00148	.00013	.00062	.0007
%RSD	364.54	71.686	8.5282	.0653
#1	.00146	-.00027	.00686	.9997
#2	-.00064	-.00009	.00774	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4001.0**	**3626.4**	**74236.**	**5789.5**
Stddev	.2	1.7	29.	8.9
%RSD	.00606	.04808	.03864	.15428
#1	4001.2	3625.1	74215.	5783.2
#2	4000.8	3627.6	74256.	5795.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.409%	100.75%	101.50%	100.58%
Range				

Sample Name: MB 480-629261/1-A Acquired: 6/10/2022 15:30:44 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**-.01411**	**-.00071**	**.00123**	**.00009**
Stddev	.00090	.02667	.00176	.00016	.00000
%RSD	196.09	189.02	247.68	12.873	3.3240
#1	.00018	.00475	-.00196	.00112	.00009
#2	-.00109	-.03297	.00053	.00134	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.05393**	**-.00013**	**-.0427**	**.00006**
Stddev	.00014	.00171	.00001	.1826	.00005
%RSD	200.28	3.1639	5.2096	427.6	83.077
#1	-.00003	.05272	-.00012	.0864	.00009
#2	.00017	.05514	-.00013	-.1718	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.00045**	**.00709**	**-.00582**	**.00093**
Stddev	.00005	.00021	.00139	.01252	.00114
%RSD	93.997	45.591	19.611	214.98	122.60
#1	-.00009	-.00031	.00611	.00303	.00174
#2	-.00002	-.00060	.00807	-.01468	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629261/1-A Acquired: 6/10/2022 15:30:44 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00191**	**.00018**	**-.00170**	**.18151**	**.00038**
Stddev	.00227	.00003	.00015	.00330	.00017
%RSD	118.75	15.621	8.7998	1.8180	43.999
#1	.00031	.00016	-.00159	.18384	.00050
#2	.00352	.00020	-.00180	.17918	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00086**	**.04455**	**-.00232**	**-.00617**
Stddev	.00	.00028	.00184	.00186	.00127
%RSD	.0020	32.708	4.1287	80.321	20.645
#1	25.00	.00066	.04585	-.00100	-.00707
#2	25.00	.00105	.04325	-.00363	-.00527
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00593**	**.00058**	**.00046**	**.9979**	**-.00069**
Stddev	.01282	.00028	.00002	.0001	.00002
%RSD	216.16	49.094	3.8712	.0128	2.6799
#1	.00313	.00038	.00044	.9978	-.00067
#2	-.01499	.00078	.00047	.9980	-.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629261/1-A Acquired: 6/10/2022 15:30:44 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00046**	**-.00004**	**-.00064**	**.9996**
Stddev	.00105	.00026	.00025	.0011
%RSD	226.27	596.96	39.411	.1116
#1	-.00028	-.00023	-.00046	.9988
#2	.00120	.00014	-.00082	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4009.5**	**3635.3**	**74297.**	**5811.2**
Stddev	3.0	5.5	60.	6.6
%RSD	.07458	.15150	.08018	.11438
#1	4007.3	3631.4	74255.	5815.9
#2	4011.6	3639.2	74339.	5806.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.619%	101.00%	101.59%	100.95%
Range				

Sample Name: LCS 480-629261/2-A Acquired: 6/10/2022 15:34:38 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04564**	**9.3821**	**.19027**	**.19449**	**.20415**
Stddev	.00047	.0055	.00149	.00046	.00019
%RSD	1.0386	.05910	.78570	.23565	.09335
#1	.04597	9.3860	.19133	.19416	.20429
#2	.04530	9.3781	.18921	.19481	.20402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19648**	**9.4152**	**.19107**	**.2565**	**.19191**
Stddev	.00017	.0008	.00041	.0076	.00030
%RSD	.08811	.00818	.21707	2.949	.15842
#1	.19660	9.4147	.19136	.2618	.19169
#2	.19636	9.4158	.19078	.2511	.19212
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18600**	**.19141**	**9.6848**	**9.4345**	**.18034**
Stddev	.00007	.00105	.0204	.0376	.00156
%RSD	.03663	.55076	.21107	.39825	.86715
#1	.18595	.19216	9.6703	9.4080	.17923
#2	.18605	.19066	9.6992	9.4611	.18144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629261/2-A Acquired: 6/10/2022 15:34:38 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5211**	**.19399**	**.19197**	**9.3380**	**.18577**
Stddev	.0122	.00042	.00020	.0239	.00019
%RSD	.12809	.21766	.10560	.25637	.09986
#1	9.5297	.19429	.19183	9.3549	.18590
#2	9.5124	.19370	.19211	9.3211	.18564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.19126**	**9.3597**	**.18975**	**.18494**
Stddev	.00	.00036	.0025	.00309	.00445
%RSD	.0037	.18705	.02671	1.6261	2.4053
#1	25.00	.19151	9.3614	.19193	.18808
#2	25.00	.19100	9.3579	.18757	.18179
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.8680**	F **.23039**	**.19342**	**1.008**	**.18960**
Stddev	.0109	.00067	.00029	.004	.00058
%RSD	.12312	.29006	.15129	.3890	.30618
#1	8.8757	.23086	.19321	1.011	.19001
#2	8.8602	.22991	.19363	1.006	.18919
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: LCS 480-629261/2-A Acquired: 6/10/2022 15:34:38 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19427**	**.18674**	**.19110**	**1.000**
Stddev	.00181	.00055	.00007	.000
%RSD	.93350	.29542	.03737	.0368
#1	.19299	.18635	.19105	1.000
#2	.19555	.18713	.19115	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3732.0**	**3522.9**	**71386.**	**5743.8**
Stddev	2.7	2.5	137.	9.9
%RSD	.07105	.07054	.19198	.17273
#1	3730.1	3521.2	71289.	5750.8
#2	3733.9	3524.7	71483.	5736.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.725%	97.879%	97.605%	99.782%
Range				

Sample Name: CCV-7024752 Acquired: 6/10/2022 15:38:20 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96315**	**49.390**	**1.0064**	**1.0482**	**1.0317**
Stddev	.00069	.142	.0016	.0001	.0010
%RSD	.07136	.28810	.16286	.00694	.09317
#1	.96267	49.490	1.0052	1.0481	1.0324
#2	.96364	49.289	1.0075	1.0482	1.0310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0110**	**49.721**	**1.0299**	**1.198**	**1.0254**
Stddev	.0024	.095	.0003	.072	.0014
%RSD	.23741	.19167	.02865	5.999	.13493
#1	1.0127	49.788	1.0297	1.249	1.0264
#2	1.0093	49.653	1.0301	1.148	1.0244
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98232**	**.99224**	**51.463**	**50.571**	**.97331**
Stddev	.00304	.00082	.256	.046	.00289
%RSD	.30964	.08305	.49689	.09071	.29673
#1	.98447	.99166	51.643	50.604	.97535
#2	.98017	.99282	51.282	50.539	.97127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 15:38:20 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.872**	**1.0087**	**1.0062**	**50.426**	**1.0088**
Stddev	.053	.0004	.0012	.110	.0009
%RSD	.10832	.04119	.11638	.21779	.08742
#1	48.910	1.0090	1.0071	50.503	1.0094
#2	48.835	1.0085	1.0054	50.348	1.0082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.04**	**1.0212**	**25.461**	**.97928**	**.99359**
Stddev	.00	.0024	.014	.00238	.00365
%RSD	.0063	.23837	.05583	.24259	.36756
#1	38.04	1.0229	25.451	.98096	.99617
#2	38.03	1.0195	25.472	.97760	.99101
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8697**	**1.0268**	**1.0135**	**1.509**	**.98986**
Stddev	.0130	.0018	.0016	.006	.00019
%RSD	.13215	.17137	.16104	.3722	.01966
#1	9.8790	1.0280	1.0146	1.513	.99000
#2	9.8605	1.0255	1.0123	1.505	.98972
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 15:38:20 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	1.0281	.99825	1.0544	1.511
Stddev	.0020	.00090	.0017	.003
%RSD	.19419	.08970	.16255	.2281
#1	1.0295	.99888	1.0532	1.513
#2	1.0267	.99761	1.0557	1.508
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3355.3	3361.1	67114.	5447.8
Stddev	3.0	1.4	211.	14.8
%RSD	.08796	.04145	.31383	.27137
#1	3353.3	3360.1	67263.	5437.4
#2	3357.4	3362.1	66965.	5458.3

Sample Name: CCB-7026764 Acquired: 6/10/2022 15:41:59 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00134**	**-.00861**	**.00287**	**.00067**	**.00004**
Stddev	.00013	.01895	.00034	.00005	.00001
%RSD	9.4210	220.12	11.730	8.0700	20.428
#1	.00125	-.02201	.00311	.00071	.00003
#2	.00143	.00479	.00263	.00063	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**-.00162**	**-.00001**	**.2651**	**-.00008**
Stddev	.00002	.00030	.00016	.0434	.00012
%RSD	23.710	18.632	2205.2	16.39	150.09
#1	.00008	-.00141	.00010	.2344	.00000
#2	.00006	-.00183	-.00012	.2958	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**-.00042**	**.00423**	**.00968**	**-.00016**
Stddev	.00026	.00015	.00126	.01554	.00022
%RSD	75.140	35.039	29.746	160.54	138.32
#1	.00016	-.00032	.00512	-.00131	-.00031
#2	.00052	-.00052	.00334	.02066	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 15:41:59 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.00008**	**.00208**	**.05945**	**.00012**
Stddev	.00324	.00007	.00027	.00722	.00017
%RSD	808.83	86.315	12.979	12.143	134.19
#1	.00189	.00013	.00189	.05435	.00024
#2	-.00269	.00003	.00227	.06456	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00031**	**.00381**	**-.00106**	**.00170**
Stddev	.00	.00150	.00194	.00089	.00023
%RSD	.0031	476.84	51.034	84.369	13.699
#1	25.00	-.00074	.00518	-.00169	.00153
#2	25.00	.00137	.00243	-.00043	.00186
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**-.00012**	**-.00003**	**1.007**	**-.00007**
Stddev	.00452	.00010	.00004	.002	.00010
%RSD	3673.5	85.495	146.06	.2408	139.57
#1	-.00307	-.00005	.00000	1.005	-.00015
#2	.00332	-.00019	-.00005	1.009	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 15:41:59 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00067**	**.00002**	**-.00119**	**.9998**
Stddev	.00022	.00020	.00013	.0004
%RSD	33.076	1224.0	11.236	.0434
#1	.00083	-.00013	-.00128	.9995
#2	.00052	.00016	-.00110	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4021.7**	**3630.3**	**74002.**	**5691.2**
Stddev	6.0	7.9	45.	10.7
%RSD	.14940	.21736	.06032	.18733
#1	4017.5	3624.7	73970.	5683.7
#2	4026.0	3635.9	74034.	5698.8

Sample Name: CCVL-7028546 Acquired: 6/10/2022 15:45:53 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00649**	**.17826**	**.01291**	**.01962**	**.00214**
Stddev	.00006	.02401	.00214	.00032	.00000
%RSD	.87772	13.469	16.603	1.6366	.00106
#1	.00653	.19524	.01140	.01940	.00214
#2	.00645	.16128	.01443	.01985	.00214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00202**	**.48299**	**.00182**	**.3472**	**.00385**
Stddev	.00004	.00074	.00003	.0503	.00006
%RSD	2.0498	.15368	1.7118	14.47	1.4577
#1	.00199	.48246	.00180	.3828	.00389
#2	.00205	.48351	.00184	.3117	.00381
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00410**	**.00938**	**.04923**	**.47353**	**.02707**
Stddev	.00004	.00051	.00274	.00894	.00011
%RSD	.95507	5.4734	5.5730	1.8883	.41710
#1	.00407	.00974	.04729	.47986	.02699
#2	.00413	.00901	.05117	.46721	.02715
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/10/2022 15:45:53 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18495**	**.00329**	**.00924**	**.99961**	**.00961**
Stddev	.00151	.00002	.00014	.00183	.00021
%RSD	.81808	.48989	1.4790	.18274	2.2192
#1	.18388	.00328	.00914	.99832	.00946
#2	.18602	.00330	.00934	1.0009	.00976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01034**	**.19387**	**.01552**	**.02182**
Stddev	.00	.00040	.00449	.00254	.00459
%RSD	.0028	3.9139	2.3145	16.383	21.055
#1	25.00	.01006	.19704	.01732	.01857
#2	25.00	.01063	.19069	.01373	.02507
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44129**	**.00845**	**.00490**	F **1.005**	**.00426**
Stddev	.00819	.00077	.00025	.003	.00007
%RSD	1.8557	9.1291	5.0382	.2881	1.6457
#1	.43550	.00791	.00472	1.007	.00421
#2	.44708	.00900	.00507	1.003	.00431
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/10/2022 15:45:53 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01943**	**.00483**	**.00854**	F **1.0000**
Stddev	.00051	.00009	.00038	.0000
%RSD	2.6214	1.9284	4.4435	.0037
#1	.01979	.00476	.00827	1.000
#2	.01907	.00490	.00880	1.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3961.4**	**3608.0**	**73440.**	**5694.2**
Stddev	4.5	2.5	68.	34.4
%RSD	.11368	.06830	.09257	.60431
#1	3958.2	3606.3	73488.	5718.5
#2	3964.5	3609.8	73392.	5669.9

Sample Name: 480-198760-A-1-A Acquired: 6/10/2022 15:49:46 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.03918**	**-.00044**	**.01862**	**.07688**
Stddev	.00083	.00055	.00036	.00003	.00005
%RSD	363.97	1.3938	81.473	.16717	.06576
#1	.00082	.03879	-.00069	.01864	.07692
#2	-.00036	.03956	-.00019	.01860	.07685
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**75.650**	**-.00002**	**.1092**	**.00008**
Stddev	.00003	.267	.00009	.1271	.00003
%RSD	29.287	.35272	416.18	116.3	43.567
#1	.00007	75.838	-.00008	.1991	.00005
#2	.00011	75.461	.00004	.0194	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**-.00130**	**.03507**	**1.9539**	**.00242**
Stddev	.00028	.00004	.00098	.0042	.00014
%RSD	127.38	2.9513	2.7954	.21618	5.6597
#1	.00002	-.00133	.03576	1.9509	.00232
#2	.00041	-.00127	.03437	1.9569	.00251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-1-A Acquired: 6/10/2022 15:49:46 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.821**	**.00432**	**.00042**	**33.762**	**.00035**
Stddev	.014	.00004	.00015	.125	.00012
%RSD	.11557	.82125	37.020	.36928	33.859
#1	11.812	.00429	.00031	33.850	.00027
#2	11.831	.00434	.00053	33.674	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00061**	**3.3802**	**-.00424**	**-.00443**
Stddev	.00	.00072	.0149	.00096	.00642
%RSD	.0003	118.24	.44076	22.545	144.91
#1	25.00	.00010	3.3696	-.00356	.00011
#2	25.00	.00112	3.3907	-.00491	-.00897
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5422**	**-.00022**	**.12401**	**1.002**	**.00051**
Stddev	.0109	.00035	.00061	.008	.00050
%RSD	.42936	158.44	.49044	.7747	99.796
#1	2.5499	-.00046	.12444	1.007	.00015
#2	2.5345	.00003	.12358	.9961	.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-1-A Acquired: 6/10/2022 15:49:46 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00067**	**-.00012**	**-.00055**	**.9989**
Stddev	.00007	.00016	.00049	.0001
%RSD	10.520	132.10	87.815	.0060
#1	.00072	-.00023	-.00021	.9989
#2	.00062	-.00001	-.00090	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3642.4**	**3495.5**	**71288.**	**5791.8**
Stddev	7.1	.3	142.	33.2
%RSD	.19533	.00870	.19937	.57391
#1	3637.3	3495.8	71187.	5768.3
#2	3647.4	3495.3	71388.	5815.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.498%	97.119%	97.471%	100.62%
Range				

Sample Name: 480-198760-A-2-A Acquired: 6/10/2022 15:53:36 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.17080**	**.00238**	**.02001**	**.08914**
Stddev	.00094	.00688	.00013	.00049	.00004
%RSD	160.89	4.0283	5.4641	2.4258	.04293
#1	.00125	.16593	.00248	.01967	.08916
#2	-.00008	.17566	.00229	.02035	.08911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**90.867**	**.00004**	**.3169**	**-.00009**
Stddev	.00010	.199	.00013	.0792	.00015
%RSD	142.30	.21847	298.90	24.99	162.67
#1	.00013	91.008	-.00005	.3729	.00001
#2	-.00000	90.727	.00013	.2609	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**-.00039**	**.25144**	**2.3125**	**.00175**
Stddev	.00011	.00002	.00182	.0404	.00006
%RSD	19.191	4.8754	.72242	1.7471	3.4705
#1	.00049	-.00041	.25273	2.3410	.00179
#2	.00064	-.00038	.25016	2.2839	.00170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-2-A Acquired: 6/10/2022 15:53:36 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.499**	**.02306**	**-.00109**	**35.017**	**.00067**
Stddev	.001	.00014	.00017	.059	.00028
%RSD	.00982	.58854	15.607	.16903	41.412
#1	12.500	.02315	-.00097	35.058	.00048
#2	12.498	.02296	-.00121	34.975	.00087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00112**	**3.3001**	**-.00265**	**-.00664**
Stddev	.00	.00015	.0087	.00040	.00169
%RSD	.0037	13.748	.26292	15.208	25.532
#1	25.01	.00123	3.3063	-.00237	-.00783
#2	25.01	.00101	3.2940	-.00294	-.00544
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5874**	**-.00069**	**.12688**	**.9989**	**.00371**
Stddev	.0436	.00029	.00015	.0045	.00009
%RSD	1.6842	42.541	.11832	.4513	2.5520
#1	2.6182	-.00048	.12698	1.002	.00365
#2	2.5566	-.00090	.12677	.9958	.00378
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-2-A Acquired: 6/10/2022 15:53:36 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00147**	**.00045**	**.00124**	**.9992**
Stddev	.00065	.00009	.00022	.0003
%RSD	44.649	20.659	18.081	.0276
#1	.00100	.00051	.00108	.9994
#2	.00193	.00038	.00140	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3610.1**	**3484.2**	**71045.**	**5750.3**
Stddev	.6	.3	90.	22.4
%RSD	.01714	.00808	.12731	.38873
#1	3609.7	3484.4	70981.	5734.5
#2	3610.6	3484.0	71109.	5766.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.697%	96.804%	97.139%	99.895%
Range				

Sample Name: 480-198760-A-2-ASD@5 Acquired: 6/10/2022 15:57:27 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.02173**	**.00063**	**.00389**	**.01830**
Stddev	.00043	.01422	.00177	.00013	.00001
%RSD	180.21	65.405	280.14	3.3730	.08065
#1	.00054	.01168	.00189	.00398	.01829
#2	-.00006	.03179	-.00062	.00379	.01831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**18.661**	**.00008**	**.1447**	**-.00004**
Stddev	.00005	.046	.00004	.0040	.00013
%RSD	63.597	.24442	43.165	2.766	307.68
#1	.00004	18.693	.00011	.1475	-.00014
#2	.00011	18.629	.00006	.1418	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00022**	**.05173**	**.44727**	**-.00059**
Stddev	.00001	.00070	.00053	.00071	.00086
%RSD	24.960	316.22	1.0186	.15778	146.26
#1	-.00004	-.00072	.05136	.44777	-.00119
#2	-.00003	.00027	.05211	.44677	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-2-ASD@5 Acquired: 6/10/2022 15:57:27 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5591**	**.00471**	**-.00135**	**7.0447**	**.00046**
Stddev	.0057	.00000	.00002	.0066	.00008
%RSD	.22482	.01018	1.5067	.09442	17.018
#1	2.5632	.00471	-.00136	7.0494	.00040
#2	2.5550	.00471	-.00133	7.0400	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00176**	**.63702**	**-.00161**	**-.00370**
Stddev	.00	.00169	.00015	.00154	.00196
%RSD	.0005	96.061	.02290	95.906	52.926
#1	25.00	.00296	.63692	-.00052	-.00232
#2	25.00	.00056	.63712	-.00270	-.00509
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49546**	**-.00106**	**.02570**	**1.002**	**.00030**
Stddev	.00311	.00014	.00010	.002	.00012
%RSD	.62772	12.792	.37955	.2287	39.932
#1	.49766	-.00116	.02564	1.000	.00021
#2	.49326	-.00097	.02577	1.003	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-2-ASD@5 Acquired: 6/10/2022 15:57:27 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00128**	**.00009**	**-.00167**	**1.0000**
Stddev	.00013	.00007	.00051	.0006
%RSD	10.503	78.168	30.742	.0639
#1	.00137	.00014	-.00203	.9995
#2	.00118	.00004	-.00131	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3868.3**	**3586.3**	**72880.**	**5757.1**
Stddev	.6	6.1	65.	6.9
%RSD	.01563	.16964	.08976	.11998
#1	3868.7	3582.0	72926.	5761.9
#2	3867.8	3590.6	72833.	5752.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.110%	99.639%	99.647%	100.01%
Range				

Sample Name: 480-198760-A-2-APDS Acquired: 6/10/2022 16:01:18 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04681**	**9.9596**	**.20490**	**.22519**	**.29449**
Stddev	.00057	.1370	.00271	.00011	.00012
%RSD	1.2259	1.3756	1.3210	.05052	.03928
#1	.04721	10.057	.20682	.22527	.29457
#2	.04640	9.8628	.20299	.22511	.29441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20971**	**97.681**	**.20211**	**.1479**	**.20391**
Stddev	.00137	.405	.00048	.0208	.00038
%RSD	.65282	.41448	.23829	14.07	.18754
#1	.21067	97.967	.20245	.1626	.20418
#2	.20874	97.394	.20177	.1332	.20364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19443**	**.19815**	**10.213**	**12.412**	**.19716**
Stddev	.00025	.00041	.052	.054	.00050
%RSD	.12748	.20510	.51336	.43750	.25282
#1	.19425	.19844	10.250	12.451	.19752
#2	.19460	.19786	10.176	12.374	.19681
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-2-APDS Acquired: 6/10/2022 16:01:18 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.640**	**.22391**	**.20115**	**44.292**	**.19565**
Stddev	.037	.00014	.00050	.250	.00034
%RSD	.17142	.06417	.24686	.56398	.17270
#1	21.666	.22401	.20150	44.468	.19541
#2	21.614	.22381	.20080	44.115	.19588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.20253**	**13.209**	**.19579**	**.18465**
Stddev	.00	.00066	.035	.00245	.00065
%RSD	.0026	.32739	.26575	1.2538	.34973
#1	25.01	.20206	13.234	.19753	.18419
#2	25.01	.20300	13.184	.19406	.18511
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.110**	**.20196**	**.32474**	**1.008**	**.20031**
Stddev	.054	.00043	.00117	.003	.00093
%RSD	.44771	.21472	.36057	.2761	.46213
#1	12.148	.20165	.32557	1.010	.19966
#2	12.071	.20227	.32391	1.006	.20097
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-2-APDS Acquired: 6/10/2022 16:01:18 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20733**	**.19480**	**.19941**	**1.000**
Stddev	.00266	.00050	.00020	.000
%RSD	1.2831	.25536	.09929	.0360
#1	.20921	.19515	.19927	1.001
#2	.20544	.19445	.19955	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3534.4**	**3477.5**	**70701.**	**5688.6**
Stddev	3.5	1.2	5.	8.8
%RSD	.09931	.03352	.00701	.15539
#1	3536.8	3476.7	70704.	5682.4
#2	3531.9	3478.4	70697.	5694.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.814%	96.618%	96.668%	98.824%
Range				

Sample Name: 480-198760-A-2-B MS Acquired: 6/10/2022 16:05:04 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04635**	**9.5572**	**.19905**	**.21990**	**.29354**
Stddev	.00063	.0141	.00436	.00073	.00276
%RSD	1.3518	.14798	2.1901	.33420	.93917
#1	.04680	9.5672	.19597	.22042	.29549
#2	.04591	9.5472	.20213	.21938	.29159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20146**	**104.00**	**.19511**	**.3318**	**.19640**
Stddev	.00017	.01	.00008	.0543	.00041
%RSD	.08415	.01284	.04240	16.37	.20918
#1	.20158	103.99	.19505	.2933	.19611
#2	.20134	104.01	.19516	.3702	.19669
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18527**	**.19109**	**9.8981**	**12.212**	**.19292**
Stddev	.00030	.00098	.0159	.024	.00180
%RSD	.16072	.51269	.16083	.19484	.93127
#1	.18548	.19040	9.8869	12.229	.19165
#2	.18506	.19179	9.9094	12.196	.19419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-2-B MS Acquired: 6/10/2022 16:05:04 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.449**	**.21094**	**.19577**	**46.494**	**.18835**
Stddev	.007	.00001	.00005	.024	.00024
%RSD	.03021	.00568	.02678	.05250	.12687
#1	22.454	.21095	.19580	46.511	.18852
#2	22.444	.21093	.19573	46.477	.18818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.19677**	**13.050**	**.19424**	**.18586**
Stddev	.00	.00075	.007	.00036	.00407
%RSD	.0011	.38062	.05492	.18585	2.1893
#1	25.01	.19624	13.055	.19399	.18874
#2	25.01	.19730	13.045	.19450	.18299
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.672**	**.23932**	**.32630**	**1.008**	**.19484**
Stddev	.078	.00062	.00077	.001	.00050
%RSD	.67171	.25953	.23501	.0657	.25618
#1	11.616	.23888	.32576	1.008	.19519
#2	11.727	.23976	.32685	1.007	.19449
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-2-B MS Acquired: 6/10/2022 16:05:04 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19598**	**.18838**	**.19198**	**.9999**
Stddev	.00015	.00013	.00025	.0009
%RSD	.07595	.06647	.13087	.0859
#1	.19587	.18829	.19180	.9993
#2	.19608	.18847	.19216	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3463.6**	**3403.9**	**68960.**	**5586.9**
Stddev	1.7	3.4	270.	4.6
%RSD	.04813	.10102	.39181	.08218
#1	3462.4	3401.5	68769.	5590.2
#2	3464.8	3406.4	69151.	5583.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.056%	94.574%	94.289%	97.058%
Range				

Sample Name: 480-198760-A-2-C MSD Acquired: 6/10/2022 16:08:51 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04543**	**9.5318**	**.19475**	**.21921**	**.29168**
Stddev	.00020	.0044	.00054	.00045	.00033
%RSD	.42994	.04636	.27827	.20347	.11281
#1	.04557	9.5287	.19437	.21889	.29191
#2	.04530	9.5350	.19514	.21952	.29145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20116**	**101.83**	**.19519**	**.0614**	**.19787**
Stddev	.00007	.03	.00024	.0658	.00049
%RSD	.03486	.03117	.12245	107.2	.24888
#1	.20111	101.85	.19536	.1079	.19822
#2	.20121	101.80	.19502	.0148	.19752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18521**	**.19082**	**9.8660**	**12.164**	**.18931**
Stddev	.00048	.00051	.0223	.018	.00014
%RSD	.26018	.26740	.22641	.14960	.07236
#1	.18486	.19046	9.8502	12.151	.18941
#2	.18555	.19118	9.8818	12.177	.18921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-2-C MSD Acquired: 6/10/2022 16:08:51 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.021**	**.21326**	**.19645**	**45.731**	**.18932**
Stddev	.019	.00002	.00062	.017	.00043
%RSD	.08539	.00902	.31314	.03760	.22608
#1	22.034	.21328	.19688	45.719	.18901
#2	22.008	.21325	.19601	45.743	.18962
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.19662**	**13.036**	**.19221**	**.18497**
Stddev	.00	.00149	.010	.00140	.00048
%RSD	.0035	.75743	.07574	.72873	.26196
#1	25.01	.19557	13.043	.19320	.18463
#2	25.01	.19768	13.029	.19122	.18531
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.646**	**.24020**	**.32341**	**1.007**	**.19570**
Stddev	.014	.00036	.00030	.003	.00091
%RSD	.12147	.14874	.09248	.3082	.46376
#1	11.656	.24045	.32320	1.009	.19634
#2	11.636	.23995	.32362	1.005	.19505
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-2-C MSD Acquired: 6/10/2022 16:08:51 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19591**	**.18827**	**.19310**	**.9997**
Stddev	.00060	.00001	.00003	.0008
%RSD	.30691	.00483	.01312	.0789
#1	.19548	.18827	.19308	1.000
#2	.19633	.18826	.19311	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3498.2**	**3446.8**	**69986.**	**5686.8**
Stddev	2.3	.8	76.	2.1
%RSD	.06650	.02286	.10867	.03761
#1	3496.5	3446.3	69933.	5688.3
#2	3499.8	3447.4	70040.	5685.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.915%	95.765%	95.691%	98.793%
Range				

Sample Name: 480-198760-A-3-A Acquired: 6/10/2022 16:12:37 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.28599**	**.00440**	**.01387**	**.06094**
Stddev	.00009	.00180	.00004	.00017	.00000
%RSD	23.747	.62806	.85302	1.2576	.00655
#1	.00046	.28472	.00437	.01399	.06095
#2	.00032	.28726	.00443	.01375	.06094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**70.046**	**.00012**	**.1367**	**.00009**
Stddev	.00001	.188	.00002	.0704	.00001
%RSD	8.9070	.26815	15.413	51.47	15.385
#1	.00008	70.179	.00013	.1864	.00010
#2	.00009	69.913	.00010	.0869	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00073**	**.00010**	**.49735**	**1.5926**	**.00317**
Stddev	.00007	.00021	.00182	.0470	.00056
%RSD	8.9511	207.54	.36680	2.9512	17.511
#1	.00077	.00025	.49864	1.6258	.00357
#2	.00068	-.00005	.49606	1.5593	.00278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-3-A Acquired: 6/10/2022 16:12:37 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.290**	**.03520**	**-.00023**	**12.139**	**.00099**
Stddev	.004	.00015	.00037	.050	.00002
%RSD	.04370	.42548	158.91	.41265	2.0005
#1	10.294	.03510	-.00049	12.174	.00100
#2	10.287	.03531	.00003	12.103	.00097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00120**	**2.5663**	**-.00315**	**-.00681**
Stddev	.00	.00098	.0079	.00193	.00054
%RSD	.0019	82.031	.30889	61.283	7.9345
#1	25.01	.00050	2.5719	-.00451	-.00643
#2	25.01	.00190	2.5607	-.00178	-.00720
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.8344**	**-.00074**	**.09938**	**1.001**	**.00500**
Stddev	.0008	.00004	.00028	.014	.00054
%RSD	.02763	5.5886	.27681	1.385	10.708
#1	2.8338	-.00077	.09958	.9913	.00462
#2	2.8350	-.00071	.09919	1.011	.00538
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-3-A Acquired: 6/10/2022 16:12:37 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00165**	**.00041**	**.00084**	**.9998**
Stddev	.00012	.00016	.00032	.0006
%RSD	6.9964	37.814	38.121	.0572
#1	.00173	.00030	.00061	.9994
#2	.00156	.00052	.00106	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3625.9**	**3450.7**	**70327.**	**5634.5**
Stddev	3.4	1.1	136.	15.4
%RSD	.09466	.03169	.19339	.27302
#1	3628.3	3451.5	70230.	5623.7
#2	3623.5	3449.9	70423.	5645.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.088%	95.872%	96.156%	97.885%
Range				

Sample Name: 480-198760-A-4-A Acquired: 6/10/2022 16:16:28 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00088**	**.01695**	**.00284**	**.01792**	**.07677**
Stddev	.00073	.00723	.00117	.00004	.00011
%RSD	82.921	42.654	41.363	.20803	.14868
#1	.00037	.01184	.00367	.01789	.07685
#2	.00140	.02206	.00201	.01794	.07669
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**75.159**	**-.00001**	**.1996**	**.00008**
Stddev	.00003	.100	.00004	.1483	.00009
%RSD	59.293	.13268	729.42	74.27	114.13
#1	.00003	75.230	.00002	.0948	.00015
#2	.00007	75.089	-.00003	.3045	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00095**	**-.00078**	**.09184**	**1.9077**	**.00274**
Stddev	.00009	.00064	.00033	.0128	.00196
%RSD	9.2230	81.844	.35866	.67045	71.736
#1	.00101	-.00033	.09161	1.8987	.00413
#2	.00089	-.00123	.09208	1.9168	.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-4-A Acquired: 6/10/2022 16:16:28 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.846**	**.00700**	**.00034**	**33.476**	**.00030**
Stddev	.041	.00006	.00027	.009	.00035
%RSD	.34386	.90828	78.810	.02673	119.39
#1	11.875	.00696	.00015	33.482	.00005
#2	11.817	.00705	.00053	33.469	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00126**	**3.3963**	**-.00315**	**-.00897**
Stddev	.00	.00062	.0060	.00064	.00391
%RSD	.0003	49.461	.17634	20.366	43.572
#1	25.00	.00170	3.4005	-.00270	-.01173
#2	25.00	.00082	3.3921	-.00361	-.00621
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5432**	**-.00146**	**.12421**	**1.001**	**.00073**
Stddev	.0051	.00098	.00003	.004	.00028
%RSD	.20057	67.351	.02076	.3933	38.497
#1	2.5468	-.00215	.12419	.9978	.00093
#2	2.5396	-.00076	.12423	1.003	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-4-A Acquired: 6/10/2022 16:16:28 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00152**	**.00003**	**.00512**	**.9993**
Stddev	.00052	.00003	.00026	.0006
%RSD	34.434	101.53	5.0267	.0552
#1	.00115	.00001	.00530	.9997
#2	.00189	.00006	.00494	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3621.4**	**3472.4**	**70624.**	**5771.3**
Stddev	3.7	4.1	55.	.3
%RSD	.10128	.11821	.07719	.00475
#1	3618.8	3469.5	70585.	5771.1
#2	3624.0	3475.3	70662.	5771.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.976%	96.476%	96.563%	100.26%
Range				

Sample Name: 480-198760-A-5-A Acquired: 6/10/2022 16:20:19 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.05439**	**-.00042**	**.01784**	**.07940**
Stddev	.00065	.01673	.00065	.00036	.00002
%RSD	1713.3	30.766	152.41	2.0240	.01928
#1	-.00042	.04256	-.00088	.01758	.07941
#2	.00050	.06623	.00003	.01809	.07939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**71.607**	**.00013**	**.0985**	**-.00012**
Stddev	.00003	.075	.00022	.1304	.00003
%RSD	58.839	.10456	173.03	132.5	24.480
#1	.00003	71.660	-.00003	.0062	-.00014
#2	.00006	71.554	.00028	.1907	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**-.00074**	**.06820**	**1.8486**	**.00149**
Stddev	.00000	.00072	.00117	.0044	.00168
%RSD	.52646	96.476	1.7195	.23944	112.96
#1	.00017	-.00125	.06737	1.8455	.00030
#2	.00016	-.00024	.06903	1.8517	.00268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-5-A Acquired: 6/10/2022 16:20:19 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.226**	**.00366**	**-.00070**	**31.894**	**.00034**
Stddev	.019	.00002	.00027	.011	.00009
%RSD	.17200	.42265	38.295	.03420	26.855
#1	11.240	.00365	-.00090	31.886	.00028
#2	11.213	.00367	-.00051	31.901	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00200**	**3.6016**	**-.00281**	**-.01224**
Stddev	.00	.00050	.0036	.00147	.00205
%RSD	.0053	24.906	.10031	52.224	16.723
#1	25.00	.00165	3.6041	-.00385	-.01368
#2	25.00	.00235	3.5990	-.00177	-.01079
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.6859**	**-.00029**	**.11252**	**1.000**	**.00032**
Stddev	.0066	.00122	.00013	.006	.00022
%RSD	.24738	416.22	.11657	.6071	68.627
#1	2.6812	.00057	.11242	.9961	.00017
#2	2.6906	-.00116	.11261	1.005	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-5-A Acquired: 6/10/2022 16:20:19 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00060**	**-.00006**	**-.00022**	**.9991**
Stddev	.00113	.00051	.00014	.0002
%RSD	188.98	800.01	65.833	.0200
#1	-.00020	.00030	-.00012	.9989
#2	.00140	-.00043	-.00032	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3559.8**	**3409.7**	**69240.**	**5622.4**
Stddev	.0	4.5	284.	4.4
%RSD	.00005	.13294	.41063	.07819
#1	3559.8	3406.5	69039.	5625.5
#2	3559.8	3412.9	69441.	5619.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.447%	94.733%	94.671%	97.674%
Range				

Sample Name: CCV-7024752 Acquired: 6/10/2022 16:24:10 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93965**	**48.440**	**.98770**	**1.0361**	**1.0255**
Stddev	.00089	.084	.00245	.0020	.0011
%RSD	.09423	.17317	.24757	.19273	.10792
#1	.93902	48.499	.98597	1.0375	1.0263
#2	.94028	48.380	.98942	1.0347	1.0247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99798**	**48.694**	**1.0174**	**1.201**	**1.0148**
Stddev	.00013	.027	.0012	.077	.0002
%RSD	.01275	.05590	.11841	6.374	.01810
#1	.99807	48.714	1.0182	1.147	1.0146
#2	.99789	48.675	1.0165	1.255	1.0149
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95806**	**.96696**	**50.420**	**49.968**	**.96196**
Stddev	.00024	.00173	.189	.015	.00153
%RSD	.02510	.17869	.37583	.03001	.15922
#1	.95789	.96574	50.554	49.979	.96088
#2	.95823	.96819	50.286	49.957	.96305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 16:24:10 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.611**	**.98855**	**.98891**	**49.842**	**.99430**
Stddev	.065	.00012	.00250	.018	.00112
%RSD	.13742	.01196	.25275	.03565	.11243
#1	47.658	.98863	.99068	49.854	.99351
#2	47.565	.98846	.98715	49.829	.99509
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.89**	**1.0095**	**25.056**	**.95366**	**.96824**
Stddev	.01	.0013	.028	.00150	.01091
%RSD	.0236	.12550	.11315	.15686	1.1272
#1	37.89	1.0086	25.076	.95472	.97596
#2	37.88	1.0104	25.036	.95261	.96052
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6345**	**1.0141**	**.99922**	**1.508**	**.96925**
Stddev	.0251	.0007	.00098	.001	.00104
%RSD	.26067	.06992	.09790	.0772	.10751
#1	9.6167	1.0146	.99991	1.507	.96999
#2	9.6522	1.0136	.99853	1.508	.96851
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 16:24:10 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0135**	**.97678**	**1.0371**	**1.501**
Stddev	.0003	.00163	.0002	.000
%RSD	.02425	.16675	.01554	.0212
#1	1.0134	.97793	1.0372	1.501
#2	1.0137	.97563	1.0370	1.501
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3396.7**	**3414.2**	**68371.**	**5483.3**
Stddev	.9	3.1	104.	14.8
%RSD	.02732	.09147	.15197	.26962
#1	3397.4	3412.0	68297.	5493.8
#2	3396.0	3416.4	68444.	5472.9

Sample Name: CCB-7026764 Acquired: 6/10/2022 16:27:51 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.01959**	**-.00008**	**.00060**	**.00005**
Stddev	.00023	.02286	.00032	.00020	.00000
%RSD	1057.1	116.67	400.13	33.040	5.4514
#1	.00014	-.03575	.00015	.00046	.00004
#2	-.00018	-.00343	-.00031	.00074	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.00166**	**-.00006**	**.1246**	**-.00005**
Stddev	.00005	.00154	.00003	.1502	.00018
%RSD	83.240	92.914	51.612	120.5	349.72
#1	.00003	-.00057	-.00004	.0184	.00008
#2	.00010	-.00275	-.00008	.2309	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**-.00043**	**.00592**	**.00736**	**-.00031**
Stddev	.00016	.00007	.00011	.00933	.00043
%RSD	95.767	16.479	1.8107	126.76	139.28
#1	.00005	-.00038	.00585	.01396	-.00061
#2	.00028	-.00048	.00600	.00076	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 16:27:51 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.00006**	**.00166**	**.02301**	**.00021**
Stddev	.00222	.00003	.00000	.00962	.00012
%RSD	504.62	58.943	.21596	41.828	58.450
#1	-.00201	.00003	.00165	.02982	.00012
#2	.00113	.00008	.00166	.01620	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00031**	**.00671**	**-.00129**	**.00089**
Stddev	.00	.00044	.00130	.00316	.00070
%RSD	.0030	141.31	19.311	245.14	78.033
#1	25.00	.00000	.00763	-.00353	.00040
#2	25.00	.00062	.00580	.00095	.00139
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02211**	**-.00048**	**-.00005**	**1.006**	**.00026**
Stddev	.01745	.00062	.00001	.002	.00020
%RSD	78.944	129.61	16.696	.1604	76.188
#1	-.03445	-.00004	-.00005	1.007	.00012
#2	-.00977	-.00092	-.00004	1.005	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 16:27:51 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.00022**	**-.00063**	**.9992**
Stddev	.00002	.00015	.00024	.0007
%RSD	9.9642	66.651	38.660	.0691
#1	.00018	-.00012	-.00080	.9997
#2	.00020	-.00032	-.00046	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3979.9**	**3601.7**	**73541.**	**5611.7**
Stddev	4.2	4.3	78.	24.2
%RSD	.10539	.12032	.10647	.43209
#1	3976.9	3604.8	73597.	5628.8
#2	3982.8	3598.7	73486.	5594.5

Sample Name: CCVL-7028546 Acquired: 6/10/2022 16:31:45 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00571**	**.18239**	**.01506**	**.01983**	**.00214**
Stddev	.00015	.01730	.00076	.00012	.00000
%RSD	2.5617	9.4842	5.0594	.61312	.20671
#1	.00582	.19462	.01452	.01974	.00213
#2	.00561	.17016	.01560	.01991	.00214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**.49275**	**.00190**	**.1739**	**.00394**
Stddev	.00000	.00604	.00020	.0326	.00015
%RSD	.06189	1.2260	10.756	18.75	3.7793
#1	.00210	.49702	.00175	.1509	.00405
#2	.00210	.48848	.00204	.1970	.00384
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00385**	**.00934**	**.05022**	**.45877**	**.02758**
Stddev	.00040	.00001	.00078	.02028	.00108
%RSD	10.283	.11417	1.5464	4.4209	3.9329
#1	.00413	.00935	.05077	.47311	.02835
#2	.00357	.00933	.04967	.44443	.02682
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/10/2022 16:31:45 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19000**	**.00336**	**.00934**	**.99053**	**.00980**
Stddev	.00134	.00001	.00007	.00560	.00008
%RSD	.70618	.34468	.72358	.56560	.83143
#1	.18905	.00335	.00929	.99449	.00974
#2	.19095	.00337	.00939	.98657	.00985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01088**	**.19137**	**.01503**	**.02292**
Stddev	.00	.00100	.00363	.00076	.00221
%RSD	.0001	9.2173	1.8982	5.0578	9.6471
#1	25.00	.01017	.18881	.01449	.02135
#2	25.00	.01159	.19394	.01557	.02448
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44635**	**.00941**	**.00503**	F **1.003**	**.00423**
Stddev	.02121	.00018	.00011	.004	.00018
%RSD	4.7524	1.9020	2.2110	.4239	4.1901
#1	.43135	.00928	.00511	1.006	.00410
#2	.46135	.00953	.00495	.9997	.00436
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/10/2022 16:31:45 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02036**	**.00467**	**.00823**	F **1.000**
Stddev	.00051	.00039	.00023	.000
%RSD	2.5074	8.3757	2.7705	.0242
#1	.02000	.00495	.00806	1.0000
#2	.02072	.00439	.00839	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3935.2**	**3574.5**	**72527.**	**5597.9**
Stddev	4.4	3.2	16.	17.0
%RSD	.11240	.08942	.02189	.30454
#1	3938.4	3576.7	72538.	5585.9
#2	3932.1	3572.2	72516.	5610.0

Sample Name: 480-198760-A-6-A Acquired: 6/10/2022 16:35:37 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**12.300**	**.03829**	**.07534**	**.63429**
Stddev	.00065	.029	.00077	.00079	.00030
%RSD	164.27	.23502	2.0104	1.0547	.04788
#1	-.00006	12.280	.03774	.07590	.63407
#2	.00085	12.320	.03883	.07477	.63450
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**135.84**	**.00054**	**.1840**	**.00609**
Stddev	.00004	.24	.00014	.1363	.00026
%RSD	5.6616	.17526	26.070	74.09	4.1892
#1	.00069	135.68	.00064	.0876	.00627
#2	.00063	136.01	.00044	.2804	.00591
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02736**	**.03432**	**16.799**	**5.0316**	**.02488**
Stddev	.00002	.00018	.013	.0310	.00035
%RSD	.08324	.53872	.07646	.61651	1.3966
#1	.02738	.03419	16.790	5.0535	.02464
#2	.02734	.03446	16.808	5.0097	.02513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-6-A Acquired: 6/10/2022 16:35:37 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.971**	**1.7510**	**.00240**	**39.764**	**.01572**
Stddev	.004	.0016	.00000	.017	.00007
%RSD	.01168	.09305	.02966	.04362	.45635
#1	33.974	1.7522	.00241	39.751	.01567
#2	33.968	1.7499	.00240	39.776	.01578
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.33**	**.02309**	**5.2498**	**-.00212**	**-.00970**
Stddev	.00	.00065	.0024	.00138	.00361
%RSD	.0088	2.8095	.04659	64.913	37.195
#1	25.33	.02355	5.2481	-.00309	-.00715
#2	25.33	.02263	5.2515	-.00115	-.01225
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.347**	**-.00037**	**.42209**	**1.005**	**.32860**
Stddev	.053	.00030	.00011	.010	.00538
%RSD	.20955	83.034	.02586	.9887	1.6377
#1	25.384	-.00058	.42201	.9984	.32479
#2	25.309	-.00015	.42217	1.012	.33240
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-6-A Acquired: 6/10/2022 16:35:37 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00097**	**.02076**	**.07546**	**1.005**
Stddev	.00083	.00002	.00034	.001
%RSD	85.603	.07406	.45606	.1259
#1	.00038	.02075	.07570	1.004
#2	.00155	.02078	.07521	1.006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3393.1**	**3423.5**	**69116.**	**5682.4**
Stddev	2.2	3.1	118.	26.2
%RSD	.06418	.08971	.17143	.46091
#1	3391.6	3421.3	69033.	5700.9
#2	3394.7	3425.6	69200.	5663.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.306%	95.116%	94.502%	98.716%
Range				

Sample Name: 480-198760-A-7-A Acquired: 6/10/2022 16:39:29 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00081**	**.01534**	**.01444**	**.15791**	**.06936**
Stddev	.00008	.02048	.00063	.00004	.00007
%RSD	9.2588	133.52	4.3432	.02230	.10378
#1	.00076	.00086	.01488	.15793	.06931
#2	.00087	.02982	.01399	.15788	.06941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**35.943**	**-.00005**	**.2810**	**.00006**
Stddev	.00006	.099	.00012	.0508	.00007
%RSD	49.250	.27509	245.07	18.08	131.71
#1	.00007	35.873	.00004	.3169	.00011
#2	.00015	36.013	-.00013	.2451	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00070**	**-.00030**	**.19823**	**1.2816**	**.00490**
Stddev	.00003	.00021	.00280	.0513	.00053
%RSD	4.2515	69.555	1.4114	4.0043	10.874
#1	.00072	-.00045	.19625	1.2453	.00453
#2	.00068	-.00015	.20021	1.3179	.00528
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-7-A Acquired: 6/10/2022 16:39:29 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6524**	**.09326**	**.00995**	**42.815**	**.00025**
Stddev	.0156	.00024	.00017	.081	.00007
%RSD	.16164	.25804	1.6695	.18941	25.978
#1	9.6635	.09309	.01006	42.758	.00021
#2	9.6414	.09343	.00983	42.873	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00180**	**11.769**	**-.00283**	**-.00441**
Stddev	.00	.00119	.001	.00045	.00177
%RSD	.0001	66.016	.01255	15.752	40.125
#1	25.01	.00264	11.770	-.00251	-.00316
#2	25.01	.00096	11.768	-.00315	-.00566
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.7851**	**-.00160**	**.33315**	**1.001**	**.00023**
Stddev	.0131	.00006	.00023	.004	.00025
%RSD	.22691	3.5756	.07004	.4117	106.19
#1	5.7944	-.00156	.33332	1.004	.00006
#2	5.7758	-.00164	.33299	.9981	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-7-A Acquired: 6/10/2022 16:39:29 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00016**	**-.00104**	**.9994**
Stddev	.00157	.00004	.00013	.0005
%RSD	6411.1	23.609	12.079	.0468
#1	-.00114	-.00019	-.00095	.9998
#2	.00109	-.00014	-.00112	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3584.1**	**3415.9**	**69468.**	**5576.7**
Stddev	1.4	.2	96.	23.3
%RSD	.03973	.00613	.13785	.41725
#1	3585.1	3416.0	69401.	5593.2
#2	3583.1	3415.7	69536.	5560.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.051%	94.906%	94.983%	96.880%
Range				

Sample Name: 480-198760-A-8-A Acquired: 6/10/2022 16:43:19 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.03401**	**.00239**	**.04363**	**.05488**
Stddev	.00005	.00803	.00075	.00014	.00008
%RSD	8.4455	23.600	31.245	.31875	.14624
#1	.00056	.03969	.00186	.04372	.05483
#2	.00063	.02833	.00292	.04353	.05494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**49.380**	**.00283**	**.2297**	**.00019**
Stddev	.00001	.029	.00012	.0104	.00022
%RSD	9.5485	.05896	4.1498	4.546	118.61
#1	.00008	49.359	.00291	.2223	.00003
#2	.00009	49.400	.00275	.2371	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.01252**	**.07976**	**2.9483**	**-.00005**
Stddev	.00008	.00051	.00089	.0128	.00035
%RSD	255.42	4.0835	1.1212	.43548	760.60
#1	-.00009	.01288	.07913	2.9574	-.00030
#2	.00003	.01216	.08040	2.9392	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-8-A Acquired: 6/10/2022 16:43:19 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.8701**	**.01909**	**.00743**	**6.0719**	**.00392**
Stddev	.0008	.00000	.00008	.0149	.00005
%RSD	.01380	.02546	1.0478	.24451	1.2450
#1	5.8707	.01909	.00749	6.0614	.00396
#2	5.8696	.01910	.00738	6.0824	.00389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00146**	**3.9503**	**-.00375**	**-.00515**
Stddev	.00	.00163	.0077	.00042	.00141
%RSD	.0016	111.83	.19607	11.288	27.277
#1	25.01	.00261	3.9557	-.00345	-.00615
#2	25.01	.00031	3.9448	-.00405	-.00416
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.3318**	**-.00110**	**.13773**	**1.001**	**.00004**
Stddev	.0064	.00041	.00059	.007	.00003
%RSD	.14675	37.174	.43111	.6586	63.564
#1	4.3363	-.00081	.13815	1.006	.00006
#2	4.3273	-.00140	.13731	.9968	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-8-A Acquired: 6/10/2022 16:43:19 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00012**	**-.00010**	**.00556**	**.9993**
Stddev	.00005	.00024	.00018	.0005
%RSD	44.523	242.20	3.1607	.0508
#1	.00008	.00007	.00544	.9997
#2	.00016	-.00027	.00568	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3656.2**	**3437.2**	**70010.**	**5584.7**
Stddev	7.6	2.3	67.	3.4
%RSD	.20819	.06701	.09564	.06169
#1	3650.8	3435.6	70058.	5587.1
#2	3661.6	3438.8	69963.	5582.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.842%	95.497%	95.724%	97.019%
Range				

Sample Name: 480-198760-A-9-A Acquired: 6/10/2022 16:47:09 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.04511**	**.00214**	**.05849**	**.11384**
Stddev	.00067	.00551	.00260	.00038	.00005
%RSD	193.00	12.216	121.90	.65607	.04089
#1	-.00013	.04901	.00029	.05876	.11388
#2	.00082	.04121	.00398	.05821	.11381
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**73.265**	**.00007**	**.1674**	**.00064**
Stddev	.00006	.044	.00004	.0095	.00011
%RSD	40.496	.06071	55.415	5.693	17.153
#1	.00010	73.234	.00004	.1741	.00071
#2	.00018	73.297	.00009	.1606	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**.00017**	**.05537**	**5.6357**	**.00370**
Stddev	.00018	.00014	.00387	.0380	.00167
%RSD	37.185	80.843	6.9827	.67420	45.099
#1	.00037	.00027	.05264	5.6089	.00488
#2	.00063	.00007	.05810	5.6626	.00252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-9-A Acquired: 6/10/2022 16:47:09 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.366**	**.83526**	**.00475**	**32.004**	**.00209**
Stddev	.020	.00164	.00021	.056	.00031
%RSD	.19000	.19624	4.3205	.17365	14.838
#1	10.380	.83642	.00461	31.965	.00187
#2	10.352	.83410	.00490	32.043	.00230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00213**	**8.4153**	**-.00388**	**-.00622**
Stddev	.00	.00104	.0149	.00293	.00209
%RSD	.0006	48.939	.17707	75.567	33.562
#1	25.01	.00287	8.4259	-.00181	-.00475
#2	25.01	.00139	8.4048	-.00596	-.00770
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.0073**	**-.00124**	**.24971**	**.9966**	**.00042**
Stddev	.0206	.00028	.00075	.0019	.00007
%RSD	.51444	22.646	.30088	.1885	17.422
#1	3.9928	-.00144	.24918	.9953	.00047
#2	4.0219	-.00105	.25025	.9980	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-9-A Acquired: 6/10/2022 16:47:09 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00054**	**.00031**	**.00084**	**1.000**
Stddev	.00053	.00009	.00012	.000
%RSD	96.945	29.546	14.695	.0335
#1	.00017	.00024	.00075	.9999
#2	.00091	.00037	.00093	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3516.9**	**3360.9**	**68563.**	**5471.2**
Stddev	2.5	5.7	155.	2.4
%RSD	.07216	.16960	.22604	.04321
#1	3515.1	3356.8	68453.	5469.6
#2	3518.7	3364.9	68672.	5472.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.381%	93.376%	93.745%	95.047%
Range				

Sample Name: 480-198760-A-10-A Acquired: 6/10/2022 16:50:58 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00078**	**13.472**	**.00684**	**.02362**	**.15516**
Stddev	.00047	.044	.00092	.00047	.00021
%RSD	60.665	.32455	13.497	2.0074	.13316
#1	.00111	13.503	.00749	.02396	.15530
#2	.00044	13.441	.00619	.02329	.15501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**94.760**	**.00116**	**.2365**	**.00614**
Stddev	.00001	.140	.00014	.0060	.00009
%RSD	1.6205	.14820	11.731	2.532	1.4867
#1	.00063	94.859	.00106	.2323	.00608
#2	.00062	94.660	.00125	.2408	.00621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01708**	**.01575**	**16.300**	**10.095**	**.02031**
Stddev	.00023	.00045	.041	.068	.00049
%RSD	1.3473	2.8684	.25094	.67356	2.4042
#1	.01724	.01543	16.329	10.143	.02065
#2	.01692	.01607	16.271	10.047	.01996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-10-A Acquired: 6/10/2022 16:50:58 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.064**	**.54940**	**.00094**	**2.2714**	**.01597**
Stddev	.017	.00028	.00032	.0095	.00007
%RSD	.11507	.05037	33.866	.41761	.42974
#1	15.052	.54959	.00116	2.2781	.01602
#2	15.076	.54920	.00071	2.2647	.01592
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.16**	**.01335**	**6.5395**	**-.00285**	**-.00579**
Stddev	.00	.00027	.0068	.00216	.00084
%RSD	.0072	1.9908	.10445	75.908	14.511
#1	25.15	.01354	6.5444	-.00132	-.00639
#2	25.16	.01316	6.5347	-.00437	-.00520
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.127**	**.00071**	**.30400**	**1.007**	**.30088**
Stddev	.124	.00042	.00305	.003	.00621
%RSD	.53510	58.796	1.0027	.3072	2.0650
#1	23.215	.00042	.30616	1.005	.30527
#2	23.040	.00101	.30185	1.010	.29649
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-10-A Acquired: 6/10/2022 16:50:58 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00002**	**.02200**	**.10234**	**1.005**
Stddev	.00109	.00003	.00003	.000
%RSD	5709.5	.13530	.02838	.0270
#1	-.00076	.02198	.10232	1.005
#2	.00079	.02202	.10237	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3562.4**	**3462.3**	**70115.**	**5634.6**
Stddev	3.2	5.6	75.	3.0
%RSD	.08878	.16039	.10661	.05352
#1	3560.1	3458.4	70168.	5636.8
#2	3564.6	3466.2	70062.	5632.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.510%	96.195%	95.867%	97.886%
Range				

Sample Name: 480-198760-A-11-A Acquired: 6/10/2022 16:54:46 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.01582**	**.01304**	**.01795**	**.19779**
Stddev	.00065	.00241	.00047	.00014	.00014
%RSD	405.32	15.254	3.5922	.77211	.07051
#1	.00062	.01752	.01337	.01786	.19769
#2	-.00030	.01411	.01271	.01805	.19788
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**76.648**	**.00004**	**.1797**	**.00026**
Stddev	.00001	.170	.00002	.1377	.00007
%RSD	10.001	.22190	64.491	76.61	28.016
#1	.00008	76.768	.00002	.2771	.00021
#2	.00007	76.528	.00005	.0824	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**-.00061**	**1.1575**	**1.2452**	**.00488**
Stddev	.00027	.00034	.0005	.0312	.00079
%RSD	63.547	55.861	.04040	2.5048	16.192
#1	.00024	-.00086	1.1579	1.2672	.00432
#2	.00062	-.00037	1.1572	1.2231	.00544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-11-A Acquired: 6/10/2022 16:54:46 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.344**	**.58652**	**.00212**	**4.0266**	**.00054**
Stddev	.012	.00117	.00006	.0078	.00015
%RSD	.07158	.19966	3.0379	.19334	26.920
#1	16.336	.58569	.00208	4.0321	.00065
#2	16.352	.58735	.00217	4.0211	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00088**	**4.7835**	**-.00297**	**-.00658**
Stddev	.00	.00051	.0134	.00157	.00267
%RSD	.0066	58.467	.27943	52.830	40.538
#1	25.01	.00052	4.7930	-.00186	-.00469
#2	25.01	.00124	4.7741	-.00408	-.00847
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.5610**	**-.00055**	**.16396**	**1.003**	**-.00018**
Stddev	.0018	.00111	.00018	.003	.00035
%RSD	.03278	202.08	.11233	.3304	194.90
#1	5.5597	-.00133	.16409	1.001	.00007
#2	5.5623	.00023	.16383	1.006	-.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-11-A Acquired: 6/10/2022 16:54:46 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00009**	**-.00136**	**.9993**
Stddev	.00088	.00024	.00099	.0001
%RSD	283.34	263.84	72.572	.0095
#1	.00031	-.00008	-.00206	.9992
#2	-.00093	.00026	-.00066	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3634.0**	**3442.2**	**70129.**	**5617.5**
Stddev	.8	3.0	18.	33.1
%RSD	.02273	.08702	.02530	.59009
#1	3633.4	3440.1	70141.	5594.0
#2	3634.5	3444.3	70116.	5640.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.289%	95.636%	95.886%	97.588%
Range				

Sample Name: 480-198760-A-12-A Acquired: 6/10/2022 16:58:35 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00099**	**1.6315**	**.00393**	**.01787**	**.02560**
Stddev	.00091	.0200	.00020	.00047	.00001
%RSD	91.928	1.2263	5.1521	2.6215	.03020
#1	.00164	1.6457	.00407	.01820	.02561
#2	.00035	1.6174	.00379	.01754	.02560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**46.088**	**.00090**	**.3233**	**.00063**
Stddev	.00007	.217	.00002	.1843	.00000
%RSD	51.741	.47028	2.1319	56.99	.58188
#1	.00019	46.241	.00091	.4536	.00063
#2	.00009	45.935	.00088	.1930	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00401**	**.01166**	**1.8868**	**2.4010**	**.00344**
Stddev	.00043	.00054	.0039	.0173	.00277
%RSD	10.777	4.6160	.20820	.72097	80.455
#1	.00431	.01128	1.8895	2.4132	.00148
#2	.00370	.01204	1.8840	2.3887	.00540
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-12-A Acquired: 6/10/2022 16:58:35 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.9068**	**.02699**	**.00370**	**2.3940**	**.00297**
Stddev	.0010	.00000	.00024	.0022	.00017
%RSD	.03358	.00436	6.3701	.09352	5.6146
#1	2.9075	.02699	.00354	2.3956	.00285
#2	2.9062	.02700	.00387	2.3924	.00309
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.01548**	**5.4154**	**-.00247**	**-.00570**
Stddev	.00	.00021	.0005	.00050	.00340
%RSD	.0016	1.3391	.00996	20.446	59.596
#1	25.04	.01563	5.4150	-.00283	-.00810
#2	25.04	.01534	5.4158	-.00211	-.00330
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.709**	**.00017**	**.11532**	**1.004**	**.05438**
Stddev	.042	.00080	.00077	.002	.00219
%RSD	.38967	465.05	.67030	.1703	4.0304
#1	10.739	.00074	.11587	1.003	.05283
#2	10.680	-.00039	.11477	1.005	.05593
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-12-A Acquired: 6/10/2022 16:58:35 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00405**	**.02673**	**1.001**
Stddev	.00100	.00015	.00000	.000
%RSD	2829.4	3.7810	.00418	.0171
#1	-.00067	.00415	.02673	1.001
#2	.00074	.00394	.02673	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3693.3**	**3445.2**	**70047.**	**5603.1**
Stddev	3.8	.6	231.	21.9
%RSD	.10206	.01827	.32993	.39065
#1	3690.6	3445.6	69884.	5587.6
#2	3695.9	3444.7	70211.	5618.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.762%	95.719%	95.775%	97.339%
Range				

Sample Name: 480-198760-A-13-A Acquired: 6/10/2022 17:02:22 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.06616**	**.00035**	**.01282**	**.07024**
Stddev	.00010	.01264	.00055	.00003	.00004
%RSD	62.169	19.101	156.07	.19525	.05827
#1	.00023	.05722	.00074	.01283	.07021
#2	.00009	.07509	-.00004	.01280	.07026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**85.277**	**.00014**	**.2303**	**-.00008**
Stddev	.00004	.140	.00018	.0579	.00018
%RSD	54.274	.16409	130.36	25.12	229.22
#1	.00010	85.376	.00001	.2712	.00005
#2	.00005	85.178	.00027	.1894	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**-.00034**	**.09523**	**1.5656**	**.00058**
Stddev	.00022	.00019	.00023	.0116	.00013
%RSD	55.987	56.064	.24193	.74035	22.371
#1	.00055	-.00020	.09506	1.5574	.00048
#2	.00024	-.00047	.09539	1.5738	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-13-A Acquired: 6/10/2022 17:02:22 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.244**	**.00463**	**-.00127**	**27.723**	**.00098**
Stddev	.000	.00002	.00017	.083	.00036
%RSD	.00384	.34334	13.781	.29761	36.817
#1	11.244	.00462	-.00139	27.781	.00073
#2	11.244	.00464	-.00114	27.665	.00124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00096**	**2.8687**	**-.00448**	**-.00485**
Stddev	.00	.00038	.0050	.00063	.00202
%RSD	.0008	39.320	.17592	14.156	41.682
#1	25.01	.00123	2.8651	-.00404	-.00342
#2	25.01	.00070	2.8723	-.00493	-.00628
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9959**	**-.00074**	**.12356**	**.9998**	**.00104**
Stddev	.0093	.00007	.00023	.0067	.00018
%RSD	.46813	8.7591	.18431	.6715	17.005
#1	1.9893	-.00070	.12373	.9950	.00117
#2	2.0025	-.00079	.12340	1.005	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-13-A Acquired: 6/10/2022 17:02:22 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00056**	**.00019**	**.00851**	**.9995**
Stddev	.00032	.00010	.00083	.0001
%RSD	55.895	56.012	9.6974	.0096
#1	.00034	.00011	.00909	.9995
#2	.00079	.00026	.00793	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3534.6**	**3388.8**	**69012.**	**5613.8**
Stddev	.7	1.7	58.	1.6
%RSD	.02019	.05158	.08335	.02867
#1	3535.1	3390.0	69052.	5612.7
#2	3534.1	3387.5	68971.	5614.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.821%	94.152%	94.359%	97.524%
Range				

Sample Name: 480-198760-A-14-A Acquired: 6/10/2022 17:06:13 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**6.3137**	**.00574**	**.03192**	**.21817**
Stddev	.00009	.0175	.00063	.00011	.00041
%RSD	30.317	.27771	10.991	.35596	.18801
#1	-.00038	6.3261	.00619	.03200	.21846
#2	-.00024	6.3013	.00530	.03184	.21788
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**128.88**	**.00369**	**.0814**	**.00430**
Stddev	.00003	.06	.00010	.0570	.00023
%RSD	7.4657	.05031	2.7184	70.03	5.2441
#1	.00039	128.93	.00361	.1216	.00446
#2	.00035	128.83	.00376	.0411	.00414
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00828**	**.02080**	**9.3786**	**4.2816**	**.01237**
Stddev	.00002	.00003	.0138	.0618	.00021
%RSD	.21771	.16007	.14769	1.4435	1.7176
#1	.00830	.02078	9.3884	4.3253	.01222
#2	.00827	.02083	9.3688	4.2379	.01252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-14-A Acquired: 6/10/2022 17:06:13 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.876**	**1.9943**	**.00108**	**11.925**	**.01029**
Stddev	.061	.0039	.00003	.031	.00007
%RSD	.19907	.19360	2.7596	.25996	.66147
#1	30.920	1.9970	.00106	11.903	.01034
#2	30.833	1.9916	.00110	11.947	.01024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.20**	**.01423**	**3.5378**	**-.00549**	**-.00948**
Stddev	.00	.00020	.0010	.00215	.00465
%RSD	.0064	1.4111	.02755	39.119	49.017
#1	25.20	.01437	3.5371	-.00701	-.00619
#2	25.20	.01409	3.5385	-.00397	-.01277
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.846**	**.00021**	**.18531**	**.9985**	**.17755**
Stddev	.105	.00101	.00038	.0072	.00104
%RSD	.76019	476.81	.20535	.7255	.58597
#1	13.920	-.00050	.18558	1.004	.17828
#2	13.771	.00093	.18504	.9933	.17681
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198760-A-14-A Acquired: 6/10/2022 17:06:13 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00032**	**.01105**	**.05551**	**1.003**
Stddev	.00153	.00003	.00016	.000
%RSD	472.09	.28993	.29539	.0345
#1	.00141	.01107	.05563	1.003
#2	-.00076	.01103	.05539	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3438.9**	**3384.3**	**68562.**	**5610.8**
Stddev	.3	2.7	126.	7.7
%RSD	.00909	.07871	.18305	.13689
#1	3439.1	3382.5	68473.	5605.4
#2	3438.7	3386.2	68650.	5616.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.443%	94.029%	93.743%	97.472%
Range				

Sample Name: CCV-7024752 Acquired: 6/10/2022 17:10:02 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96717**	**49.825**	**1.0133**	**1.0586**	**1.0463**
Stddev	.00042	.051	.0044	.0022	.0004
%RSD	.04355	.10152	.43299	.20904	.04297
#1	.96687	49.789	1.0164	1.0570	1.0460
#2	.96747	49.861	1.0102	1.0601	1.0467
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0207**	**49.900**	**1.0397**	**1.385**	**1.0338**
Stddev	.0020	.163	.0006	.153	.0006
%RSD	.19310	.32683	.05883	11.02	.05447
#1	1.0193	49.785	1.0392	1.277	1.0341
#2	1.0221	50.015	1.0401	1.492	1.0334
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98680**	**.99640**	**51.769**	**51.080**	**.99084**
Stddev	.00159	.00129	.164	.035	.00269
%RSD	.16094	.12987	.31677	.06909	.27147
#1	.98568	.99549	51.653	51.055	.98894
#2	.98793	.99732	51.885	51.105	.99274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 17:10:02 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.860**	**1.0105**	**1.0125**	**50.986**	**1.0145**
Stddev	.056	.0018	.0009	.085	.0022
%RSD	.11526	.17352	.09229	.16635	.21383
#1	48.820	1.0093	1.0131	50.926	1.0160
#2	48.900	1.0118	1.0118	51.046	1.0130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.15**	**1.0261**	**25.617**	**.98527**	**.99447**
Stddev	.01	.0003	.004	.00189	.00704
%RSD	.0206	.02438	.01414	.19182	.70754
#1	38.14	1.0260	25.614	.98661	.99945
#2	38.15	1.0263	25.619	.98393	.98950
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8747**	**1.0306**	**1.0192**	**1.516**	**.99470**
Stddev	.0889	.0022	.0017	.003	.00136
%RSD	.90004	.21673	.16463	.2142	.13696
#1	9.8118	1.0322	1.0181	1.514	.99566
#2	9.9375	1.0290	1.0204	1.518	.99373
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 17:10:02 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0338**	**1.0010**	**1.0514**	**1.513**
Stddev	.0003	.0024	.0009	.001
%RSD	.03289	.23657	.08721	.0526
#1	1.0340	.99933	1.0521	1.514
#2	1.0336	1.0027	1.0508	1.513
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3332.3**	**3337.4**	**67053.**	**5400.4**
Stddev	1.2	6.6	259.	27.9
%RSD	.03644	.19736	.38563	.51668
#1	3333.1	3342.1	67236.	5420.1
#2	3331.4	3332.8	66870.	5380.7

Sample Name: CCB-7026764 Acquired: 6/10/2022 17:13:42 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**-.01929**	**.00078**	**.00064**	**.00004**
Stddev	.00041	.00112	.00175	.00016	.00001
%RSD	101.86	5.7883	225.43	25.376	39.512
#1	.00070	-.02008	.00201	.00076	.00003
#2	.00011	-.01850	-.00046	.00053	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00010**	**.00002**	**.0830**	**.00008**
Stddev	.00004	.00333	.00018	.0825	.00014
%RSD	53.564	3382.3	728.37	99.39	169.88
#1	.00010	.00245	.00015	.1414	.00018
#2	.00004	-.00225	-.00010	.0247	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**-.00049**	**.00656**	**.00925**	**-.00044**
Stddev	.00030	.00018	.00250	.00564	.00168
%RSD	108.70	37.183	38.170	61.033	381.70
#1	.00048	-.00036	.00479	.00526	-.00162
#2	.00006	-.00062	.00833	.01324	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 17:13:42 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.00013**	**.00180**	**.01662**	**.00031**
Stddev	.00078	.00002	.00036	.01016	.00039
%RSD	193.93	17.808	20.051	61.106	126.16
#1	.00015	.00015	.00155	.02381	.00058
#2	-.00095	.00011	.00206	.00944	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00104**	**.00437**	**-.00118**	**.00018**
Stddev	.00	.00071	.00032	.00225	.00139
%RSD	.0029	67.982	7.2847	190.47	773.29
#1	25.00	.00054	.00415	-.00277	.00116
#2	25.00	.00154	.00460	.00041	-.00080
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00996**	**-.00019**	**-.00010**	**.9978**	**.00014**
Stddev	.02367	.00034	.00001	.0066	.00009
%RSD	237.64	177.23	11.755	.6636	62.955
#1	-.02670	.00005	-.00010	1.003	.00020
#2	.00678	-.00043	-.00011	.9931	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 17:13:42 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00073**	**.00014**	**-.00075**	**.9994**
Stddev	.00039	.00006	.00005	.0000
%RSD	53.112	39.664	6.1278	.0048
#1	.00046	.00018	-.00078	.9994
#2	.00100	.00010	-.00072	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3933.9**	**3561.4**	**72532.**	**5540.3**
Stddev	3.2	2.4	41.	14.3
%RSD	.08108	.06711	.05666	.25862
#1	3931.7	3559.7	72561.	5530.2
#2	3936.2	3563.1	72503.	5550.4

Sample Name: CCVL-7028546 Acquired: 6/10/2022 17:17:35 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00606**	**.18677**	**.01460**	**.01971**	**.00219**
Stddev	.00026	.00226	.00003	.00011	.00001
%RSD	4.2197	1.2121	.18656	.56628	.51292
#1	.00588	.18517	.01462	.01963	.00220
#2	.00624	.18837	.01458	.01979	.00219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00213**	**.49947**	**.00209**	**.2947**	**.00386**
Stddev	.00003	.00215	.00002	.0521	.00008
%RSD	1.2478	.42972	.78099	17.69	2.1968
#1	.00211	.50098	.00208	.2579	.00380
#2	.00215	.49795	.00211	.3316	.00392
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00387**	**.00974**	**.05261**	**.45654**	**.02631**
Stddev	.00029	.00031	.00197	.01613	.00038
%RSD	7.5267	3.1985	3.7359	3.5322	1.4602
#1	.00408	.00996	.05122	.44514	.02604
#2	.00367	.00952	.05400	.46794	.02658
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/10/2022 17:17:35 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18799**	**.00340**	**.00948**	**.98790**	**.00995**
Stddev	.00135	.00005	.00004	.00209	.00002
%RSD	.71988	1.3387	.42694	.21148	.20305
#1	.18704	.00343	.00945	.98642	.00996
#2	.18895	.00337	.00951	.98937	.00993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01005**	**.20033**	**.01690**	**.02128**
Stddev	.00	.00000	.00071	.00037	.00013
%RSD	.0008	.04936	.35593	2.2129	.59448
#1	25.00	.01005	.19982	.01717	.02137
#2	25.00	.01005	.20083	.01664	.02119
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44987**	**.00806**	**.00491**	F **1.001**	**.00425**
Stddev	.00135	.00019	.00003	.001	.00027
%RSD	.30067	2.2978	.70770	.0727	6.2596
#1	.44891	.00819	.00488	1.000	.00407
#2	.45083	.00793	.00493	1.001	.00444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/10/2022 17:17:35 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02069**	**.00469**	**.00900**	F **1.000**
Stddev	.00119	.00003	.00090	.000
%RSD	5.7741	.60946	10.016	.0034
#1	.01985	.00467	.00964	1.000
#2	.02154	.00471	.00836	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3878.7**	**3534.1**	**71817.**	**5517.0**
Stddev	1.1	6.9	133.	11.3
%RSD	.02944	.19401	.18496	.20420
#1	3877.9	3529.2	71723.	5509.0
#2	3879.5	3538.9	71911.	5525.0

Sample Name: MB 480-629412/1-A Acquired: 6/10/2022 17:21:28 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.01114**	**-.00186**	**.00019**	**.00008**
Stddev	.00006	.00592	.00344	.00002	.00001
%RSD	36.273	53.099	184.54	8.4634	8.7544
#1	-.00013	-.01532	-.00430	.00020	.00007
#2	-.00022	-.00696	.00057	.00018	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00661**	**.00004**	**.1811**	**-.00014**
Stddev	.00005	.00176	.00014	.0829	.00007
%RSD	43.506	26.576	374.41	45.80	51.599
#1	.00014	.00785	.00014	.2398	-.00019
#2	.00007	.00537	-.00006	.1225	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**-.00042**	**.03064**	**-.04002**	**.00027**
Stddev	.00038	.00041	.00185	.01550	.00125
%RSD	329.15	96.629	6.0392	38.743	467.91
#1	.00038	-.00071	.02933	-.02906	-.00062
#2	-.00015	-.00013	.03195	-.05098	.00115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629412/1-A Acquired: 6/10/2022 17:21:28 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00085**	**.00009**	**-.00098**	**.00739**	**.00042**
Stddev	.00223	.00001	.00032	.00391	.00022
%RSD	263.18	11.324	32.498	52.965	53.174
#1	-.00242	.00008	-.00121	.01015	.00026
#2	.00073	.00009	-.00076	.00462	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00057**	**.00217**	**-.00198**	**-.00269**
Stddev	.00	.00027	.00460	.00022	.00146
%RSD	.0074	47.217	211.80	10.930	54.454
#1	25.00	.00076	.00542	-.00183	-.00373
#2	25.00	.00038	-.00108	-.00214	-.00165
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02052**	**-.00023**	**-.00005**	**1.001**	**-.00027**
Stddev	.00496	.00113	.00003	.007	.00007
%RSD	24.189	497.79	55.160	.7059	25.078
#1	-.01701	-.00102	-.00003	1.006	-.00032
#2	-.02403	.00057	-.00008	.9960	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629412/1-A Acquired: 6/10/2022 17:21:28 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00066**	**.00025**	**-.00170**	**.9992**
Stddev	.00012	.00022	.00015	.0005
%RSD	18.745	86.933	8.9413	.0465
#1	.00057	.00041	-.00181	.9989
#2	.00075	.00010	-.00159	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3858.8**	**3512.6**	**71673.**	**5578.2**
Stddev	1.5	1.1	63.	19.4
%RSD	.03963	.03064	.08778	.34842
#1	3859.9	3511.8	71717.	5591.9
#2	3857.7	3513.4	71628.	5564.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.875%	97.592%	97.997%	96.906%
Range				

Sample Name: LCS 480-629412/2-A Acquired: 6/10/2022 17:25:21 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04627**	**9.5461**	**.19009**	**.20048**	**.21077**
Stddev	.00029	.0271	.00200	.00029	.00009
%RSD	.63754	.28415	1.0536	.14690	.04221
#1	.04606	9.5269	.19150	.20027	.21083
#2	.04647	9.5652	.18867	.20069	.21071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19725**	**9.3680**	**.19121**	**.2036**	**.19247**
Stddev	.00054	.0226	.00026	.1256	.00004
%RSD	.27152	.24140	.13611	61.67	.01963
#1	.19688	9.3520	.19103	.1148	.19250
#2	.19763	9.3840	.19140	.2924	.19245
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18363**	**.18875**	**9.7384**	**9.7174**	**.18921**
Stddev	.00015	.00006	.0278	.0480	.00074
%RSD	.08326	.03384	.28505	.49375	.38915
#1	.18352	.18879	9.7188	9.6835	.18869
#2	.18374	.18870	9.7581	9.7514	.18973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629412/2-A Acquired: 6/10/2022 17:25:21 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3710**	**.19144**	**.19152**	**9.6142**	**.18459**
Stddev	.0023	.00004	.00011	.0244	.00035
%RSD	.02482	.02133	.05954	.25327	.19094
#1	9.3727	.19141	.19160	9.5970	.18484
#2	9.3694	.19147	.19144	9.6314	.18434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.19153**	**9.6651**	**.18732**	**.18079**
Stddev	.00	.00084	.0048	.00247	.00433
%RSD	.0001	.44008	.04978	1.3189	2.3929
#1	25.00	.19094	9.6685	.18907	.18385
#2	25.00	.19213	9.6617	.18557	.17773
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.1668**	F **.24225**	**.19890**	**1.004**	**.18802**
Stddev	.0443	.00054	.00100	.001	.00011
%RSD	.48352	.22412	.50080	.0627	.05977
#1	9.1354	.24263	.19819	1.005	.18810
#2	9.1981	.24186	.19960	1.004	.18794
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: LCS 480-629412/2-A Acquired: 6/10/2022 17:25:21 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19338**	**.18446**	**.19006**	**.9998**
Stddev	.00049	.00054	.00091	.0005
%RSD	.25098	.29271	.47672	.0476
#1	.19304	.18484	.19070	1.000
#2	.19372	.18408	.18942	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3660.5**	**3462.0**	**70208.**	**5567.8**
Stddev	5.6	3.7	109.	.7
%RSD	.15178	.10771	.15480	.01243
#1	3656.6	3459.3	70131.	5567.3
#2	3664.4	3464.6	70285.	5568.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.948%	96.186%	95.995%	96.725%
Range				

Sample Name: 240-167703-O-1-A Acquired: 6/10/2022 17:29:02 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.00679**	**.00391**	**.36389**	**.19690**
Stddev	.00035	.01528	.00196	.00034	.00038
%RSD	130.00	225.15	50.167	.09241	.19289
#1	.00051	-.00402	.00252	.36365	.19716
#2	.00002	.01760	.00530	.36412	.19663
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**112.46**	**.00012**	**.2537**	**-.00005**
Stddev	.00002	.43	.00018	.0216	.00019
%RSD	13.693	.38412	157.02	8.528	349.42
#1	.00013	112.77	-.00001	.2690	-.00018
#2	.00010	112.16	.00025	.2384	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**-.00163**	**2.1066**	**1.7423**	**.00907**
Stddev	.00032	.00080	.0009	.0369	.00070
%RSD	69.367	48.772	.04226	2.1200	7.6777
#1	.00069	-.00219	2.1059	1.7684	.00956
#2	.00024	-.00107	2.1072	1.7162	.00858
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-167703-O-1-A Acquired: 6/10/2022 17:29:02 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.785**	**.11646**	**.00108**	**39.995**	**.00077**
Stddev	.114	.00017	.00020	.117	.00012
%RSD	.33668	.14990	18.584	.29139	15.424
#1	33.866	.11659	.00094	40.077	.00068
#2	33.705	.11634	.00123	39.913	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00222**	**13.513**	**-.00391**	**-.00495**
Stddev	.00	.00051	.023	.00189	.00240
%RSD	.0050	23.162	.17185	48.353	48.350
#1	25.01	.00259	13.530	-.00524	-.00326
#2	25.01	.00186	13.497	-.00257	-.00665
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.6953**	**-.00005**	**.37260**	**1.004**	**.00020**
Stddev	.0302	.00027	.00116	.001	.00006
%RSD	.45101	558.81	.31199	.0944	31.674
#1	6.7166	.00014	.37343	1.003	.00025
#2	6.6739	-.00024	.37178	1.005	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-167703-O-1-A Acquired: 6/10/2022 17:29:02 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00064**	**-.00016**	**-.00093**	**.9998**
Stddev	.00082	.00039	.00021	.0006
%RSD	128.21	247.34	22.725	.0579
#1	.00122	.00012	-.00108	.9994
#2	.00006	-.00044	-.00078	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3434.4**	**3346.3**	**68353.**	**5475.3**
Stddev	2.8	1.7	258.	15.8
%RSD	.08215	.05152	.37741	.28887
#1	3436.4	3347.5	68171.	5464.1
#2	3432.4	3345.1	68536.	5486.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.330%	92.973%	93.458%	95.118%
Range				

Sample Name: 240-167703-O-2-A Acquired: 6/10/2022 17:32:51 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00070**	**.00462**	**.00227**	**.35293**	**.19366**
Stddev	.00071	.01399	.00117	.00041	.00014
%RSD	101.22	302.55	51.624	.11493	.07230
#1	.00121	.01452	.00144	.35264	.19376
#2	.00020	-.00527	.00310	.35321	.19356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**112.04**	**.00024**	**.2766**	**-.00006**
Stddev	.00007	.16	.00006	.1333	.00006
%RSD	80.823	.14534	23.100	48.19	104.58
#1	.00014	111.92	.00020	.3708	-.00001
#2	.00004	112.15	.00028	.1823	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**-.00107**	**1.6729**	**1.9100**	**.01018**
Stddev	.00010	.00039	.0010	.0083	.00007
%RSD	23.775	36.232	.06031	.43736	.65579
#1	.00049	-.00134	1.6737	1.9041	.01014
#2	.00035	-.00079	1.6722	1.9159	.01023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-167703-O-2-A Acquired: 6/10/2022 17:32:51 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.081**	**.12045**	**.00082**	**47.382**	**.00127**
Stddev	.113	.00008	.00002	.147	.00008
%RSD	.33254	.06894	2.8295	.31003	6.6219
#1	34.161	.12051	.00083	47.278	.00133
#2	34.000	.12040	.00080	47.486	.00121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00329**	**14.172**	**-.00093**	**-.00656**
Stddev	.00	.00060	.011	.00087	.00349
%RSD	.0014	18.141	.07721	93.146	53.184
#1	25.01	.00287	14.180	-.00155	-.00409
#2	25.01	.00371	14.165	-.00032	-.00902
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.9509**	**-.00006**	**.37609**	**.9993**	**.00028**
Stddev	.0154	.00077	.00137	.0030	.00009
%RSD	.22080	1360.3	.36549	.2976	31.259
#1	6.9400	-.00060	.37512	1.001	.00022
#2	6.9617	.00049	.37707	.9972	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-167703-O-2-A Acquired: 6/10/2022 17:32:51 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00161**	**-.00012**	**.00153**	**.9998**
Stddev	.00180	.00018	.00084	.0006
%RSD	111.65	155.64	55.143	.0614
#1	.00289	-.00024	.00212	.9994
#2	.00034	.00001	.00093	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3419.9**	**3326.2**	**68015.**	**5430.7**
Stddev	1.6	.0	127.	17.4
%RSD	.04747	.00145	.18641	.32050
#1	3418.8	3326.2	67925.	5418.3
#2	3421.1	3326.2	68104.	5443.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.971%	92.413%	92.995%	94.343%
Range				

Sample Name: 240-167703-O-3-A Acquired: 6/10/2022 17:36:39 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**-.00197**	**.00199**	**.34448**	**.25110**
Stddev	.00110	.00116	.00167	.00053	.00010
%RSD	256.00	59.173	83.775	.15315	.04136
#1	.00120	-.00279	.00317	.34411	.25103
#2	-.00035	-.00114	.00081	.34486	.25118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**123.89**	**.00006**	**.0939**	**-.00004**
Stddev	.00000	.22	.00003	.2222	.00006
%RSD	.46597	.17514	52.239	236.6	149.49
#1	.00009	124.04	.00008	.2511	-.00009
#2	.00009	123.73	.00003	-.0632	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**-.00166**	**2.1276**	**2.1381**	**.00698**
Stddev	.00024	.00088	.0053	.0250	.00052
%RSD	48.061	52.881	.24944	1.1692	7.3982
#1	.00066	-.00104	2.1313	2.1205	.00735
#2	.00033	-.00229	2.1238	2.1558	.00662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-167703-O-3-A Acquired: 6/10/2022 17:36:39 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.996**	**.13496**	**-.00096**	**31.594**	**.00051**
Stddev	.085	.00035	.00001	.003	.00003
%RSD	.22902	.26272	1.4365	.01072	6.6292
#1	36.936	.13471	-.00095	31.596	.00049
#2	37.056	.13521	-.00097	31.591	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00250**	**11.178**	**-.00342**	**-.00605**
Stddev	.00	.00137	.012	.00207	.00132
%RSD	.0036	54.687	.10682	60.465	21.872
#1	25.01	.00153	11.187	-.00196	-.00512
#2	25.00	.00347	11.170	-.00488	-.00699
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.1192**	**-.00029**	**.34671**	**.9985**	**.00075**
Stddev	.0372	.00041	.00010	.0034	.00005
%RSD	.52281	142.88	.02797	.3436	6.2049
#1	7.0929	-.00058	.34664	1.001	.00078
#2	7.1455	.00000	.34678	.9961	.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-167703-O-3-A Acquired: 6/10/2022 17:36:39 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00066**	**-.00145**	**.9997**
Stddev	.00198	.00034	.00036	.0003
%RSD	868.51	52.324	25.085	.0340
#1	-.00117	.00041	-.00119	.9999
#2	.00163	.00090	-.00170	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3413.0**	**3318.7**	**67949.**	**5428.5**
Stddev	1.2	3.6	164.	13.1
%RSD	.03527	.10917	.24147	.24143
#1	3412.1	3316.1	68065.	5419.3
#2	3413.8	3321.2	67833.	5437.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.798%	92.204%	92.906%	94.306%
Range				

Sample Name: 240-167703-O-4-A Acquired: 6/10/2022 17:40:27 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**.00348**	**.00182**	**.08938**	**.08093**
Stddev	.00004	.00909	.00235	.00015	.00008
%RSD	6.1294	261.48	129.61	.16873	.10465
#1	.00061	-.00295	.00015	.08927	.08099
#2	.00066	.00991	.00348	.08948	.08087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**98.010**	**.00016**	**.1433**	**.00013**
Stddev	.00002	.404	.00016	.0068	.00007
%RSD	31.275	.41216	96.615	4.730	50.578
#1	.00004	98.296	.00028	.1385	.00018
#2	.00006	97.725	.00005	.1481	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**-.00022**	**.00162**	**.92754**	**.00293**
Stddev	.00011	.00051	.00077	.01890	.00070
%RSD	43.092	231.14	47.446	2.0372	23.881
#1	.00034	-.00058	.00108	.94090	.00244
#2	.00018	.00014	.00216	.91418	.00343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-167703-O-4-A Acquired: 6/10/2022 17:40:27 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.632**	**.00248**	**-.00051**	**4.8388**	**.00043**
Stddev	.015	.00005	.00014	.0042	.00002
%RSD	.04837	2.1192	27.259	.08572	5.3440
#1	30.642	.00251	-.00061	4.8418	.00044
#2	30.621	.00244	-.00041	4.8359	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00185**	**4.5850**	**-.00432**	**-.00613**
Stddev	.00	.00034	.0029	.00033	.00158
%RSD	.0016	18.519	.06377	7.6406	25.701
#1	25.00	.00209	4.5830	-.00409	-.00725
#2	25.00	.00160	4.5871	-.00455	-.00502
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.6517**	**-.00103**	**.14518**	**.9965**	**.00006**
Stddev	.0188	.00087	.00060	.0021	.00004
%RSD	.24559	84.852	.41550	.2101	66.643
#1	7.6650	-.00041	.14561	.9980	.00003
#2	7.6384	-.00165	.14475	.9950	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-167703-O-4-A Acquired: 6/10/2022 17:40:27 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00115**	**-.00014**	**.00175**	**.9985**
Stddev	.00106	.00002	.00005	.0007
%RSD	91.839	13.768	3.1138	.0682
#1	.00190	-.00015	.00179	.9980
#2	.00040	-.00012	.00171	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3604.4**	**3456.3**	**70566.**	**5653.1**
Stddev	4.1	.9	4.	10.0
%RSD	.11377	.02673	.00590	.17732
#1	3601.5	3456.9	70569.	5646.0
#2	3607.3	3455.6	70564.	5660.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.554%	96.027%	96.484%	98.207%
Range				

Sample Name: 240-167703-AQ-5-A Acquired: 6/10/2022 17:44:19 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.00189**	**.00172**	**.04749**	**.01863**
Stddev	.00002	.01309	.00044	.00065	.00001
%RSD	13.918	694.10	25.527	1.3693	.06228
#1	-.00013	-.01115	.00141	.04795	.01864
#2	-.00011	.00737	.00203	.04703	.01862
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**105.90**	**.00003**	**.1509**	**-.00014**
Stddev	.00003	.11	.00005	.1161	.00003
%RSD	62.280	.10703	156.78	76.92	21.983
#1	.00007	105.98	-.00000	.2330	-.00012
#2	.00003	105.82	.00007	.0688	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**-.00088**	**.00454**	**.79405**	**.00187**
Stddev	.00005	.00017	.00071	.03188	.00047
%RSD	18.276	18.662	15.558	4.0150	25.430
#1	.00030	-.00077	.00404	.81659	.00153
#2	.00023	-.00100	.00504	.77150	.00220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-167703-AQ-5-A Acquired: 6/10/2022 17:44:19 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.135**	**.00490**	**-.00118**	**3.9739**	**.00043**
Stddev	.051	.00003	.00009	.0066	.00010
%RSD	.24135	.58553	7.3197	.16724	24.179
#1	21.099	.00492	-.00112	3.9786	.00050
#2	21.171	.00488	-.00124	3.9692	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00123**	**48.444**	**-.00457**	**-.00725**
Stddev	.00	.00077	.034	.00044	.00102
%RSD	.0005	62.430	.06942	9.6773	14.030
#1	25.00	.00068	48.421	-.00488	-.00653
#2	25.00	.00177	48.468	-.00426	-.00797
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.0763**	**-.00025**	**.10023**	**.9996**	**.00021**
Stddev	.0026	.00039	.00012	.0011	.00008
%RSD	.05174	153.96	.12063	.1055	36.064
#1	5.0744	-.00052	.10031	.9989	.00016
#2	5.0781	.00002	.10014	1.000	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-167703-AQ-5-A Acquired: 6/10/2022 17:44:19 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00138**	**-.00004**	**-.00009**	**.9991**
Stddev	.00087	.00005	.00001	.0000
%RSD	63.110	132.01	12.959	.0026
#1	.00200	-.00008	-.00010	.9991
#2	.00076	-.00000	-.00008	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3608.7**	**3419.5**	**69885.**	**5610.8**
Stddev	1.4	2.7	221.	18.4
%RSD	.03752	.07801	.31624	.32745
#1	3609.7	3421.4	70041.	5597.8
#2	3607.8	3417.7	69729.	5623.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.662%	95.007%	95.552%	97.472%
Range				

Sample Name: 167703-AQ-5-Asd@5 Acquired: 6/10/2022 17:48:08 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.01059**	**.00038**	**.00973**	**.00387**
Stddev	.00061	.03061	.00136	.00005	.00002
%RSD	774.49	289.10	356.78	.53110	.47013
#1	.00051	.03223	-.00058	.00970	.00386
#2	-.00036	-.01106	.00134	.00977	.00388
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**21.658**	**-.00020**	**.1321**	**-.00005**
Stddev	.00010	.003	.00003	.1791	.00010
%RSD	141.53	.01605	15.411	135.5	210.32
#1	.00015	21.660	-.00018	.2587	-.00012
#2	-.00000	21.655	-.00022	.0055	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.00030**	**-.00030**	**.11478**	**.00032**
Stddev	.00050	.00006	.00169	.03556	.00113
%RSD	221.49	19.370	559.95	30.985	352.23
#1	-.00013	.00034	.00089	.08963	-.00048
#2	.00058	.00026	-.00149	.13992	.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 167703-AQ-5-Asd@5 Acquired: 6/10/2022 17:48:08 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.2886**	**.00097**	**-.00126**	**.80996**	**.00022**
Stddev	.0036	.00001	.00023	.00305	.00016
%RSD	.08405	.91971	17.809	.37695	73.493
#1	4.2912	.00096	-.00142	.80780	.00034
#2	4.2861	.00097	-.00111	.81212	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00059**	**9.4904**	**-.00198**	**-.00789**
Stddev	.00	.00012	.0092	.00128	.00063
%RSD	.0005	20.728	.09644	64.329	7.9609
#1	25.00	.00068	9.4969	-.00289	-.00744
#2	25.00	.00051	9.4840	-.00108	-.00833
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0097**	**-.00079**	**.02035**	**1.000**	**-.00053**
Stddev	.0096	.00082	.00002	.004	.00002
%RSD	.94981	102.82	.09888	.3613	3.0310
#1	1.0029	-.00137	.02036	1.003	-.00054
#2	1.0165	-.00022	.02033	.9979	-.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 167703-AQ-5-Asd@5 Acquired: 6/10/2022 17:48:08 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00009**	**-.00187**	**.9994**
Stddev	.00017	.00049	.00057	.0003
%RSD	64.749	558.55	30.532	.0346
#1	.00014	-.00026	-.00227	.9997
#2	.00038	.00043	-.00146	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3828.1**	**3534.3**	**72051.**	**5622.8**
Stddev	7.8	1.3	63.	8.9
%RSD	.20371	.03724	.08799	.15757
#1	3822.6	3533.3	72006.	5616.5
#2	3833.6	3535.2	72096.	5629.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.112%	98.194%	98.515%	97.680%
Range				

Sample Name: 167703-AQ-5-APDS Acquired: 6/10/2022 17:51:59 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04826**	**9.9426**	**.21005**	**.25903**	**.23435**
Stddev	.00056	.1033	.00501	.00029	.00031
%RSD	1.1571	1.0391	2.3837	.11316	.13430
#1	.04865	10.016	.21359	.25924	.23458
#2	.04786	9.8695	.20651	.25883	.23413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21328**	**111.59**	**.21010**	**.1885**	**.20852**
Stddev	.00090	.59	.00010	.0067	.00012
%RSD	.41986	.53078	.04922	3.539	.05636
#1	.21391	112.00	.21003	.1838	.20844
#2	.21265	111.17	.21018	.1932	.20861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19928**	**.20620**	**10.289**	**11.149**	**.20086**
Stddev	.00088	.00041	.038	.049	.00192
%RSD	.44334	.19834	.37112	.44187	.95434
#1	.19990	.20591	10.316	11.184	.20221
#2	.19865	.20649	10.262	11.114	.19950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 167703-AQ-5-APDS Acquired: 6/10/2022 17:51:59 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.273**	**.21416**	**.20818**	**14.056**	**.20027**
Stddev	.080	.00019	.00122	.089	.00048
%RSD	.26421	.08688	.58528	.63583	.24154
#1	30.330	.21403	.20904	14.119	.20061
#2	30.217	.21429	.20732	13.992	.19992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.21025**	**57.140**	**.20315**	**.19448**
Stddev	.00	.00065	.003	.00060	.00114
%RSD	.0048	.30964	.00489	.29729	.58607
#1	25.00	.21071	57.142	.20273	.19368
#2	25.00	.20979	57.138	.20358	.19529
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.662**	**.20926**	**.30525**	**1.007**	**.20168**
Stddev	.076	.00217	.00155	.005	.00038
%RSD	.51824	1.0391	.50693	.4748	.18772
#1	14.715	.20772	.30634	1.010	.20195
#2	14.608	.21080	.30415	1.003	.20141
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 167703-AQ-5-APDS Acquired: 6/10/2022 17:51:59 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21296**	**.20036**	**.20391**	**.9995**
Stddev	.00105	.00028	.00080	.0000
%RSD	.49296	.13993	.39467	.0007
#1	.21370	.20016	.20448	.9995
#2	.21222	.20056	.20334	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3474.5**	**3386.9**	**68951.**	**5543.9**
Stddev	.5	1.9	175.	10.3
%RSD	.01534	.05486	.25390	.18603
#1	3474.9	3385.6	68827.	5536.6
#2	3474.1	3388.2	69074.	5551.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.327%	94.100%	94.275%	96.310%
Range				

Sample Name: CCV-7024752 Acquired: 6/10/2022 17:55:41 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95566**	**49.837**	**1.0108**	**1.0520**	**1.0555**
Stddev	.00400	.177	.0042	.0010	.0015
%RSD	.41891	.35535	.41224	.09236	.13802
#1	.95849	49.962	1.0137	1.0513	1.0566
#2	.95283	49.711	1.0079	1.0527	1.0545
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0256**	**49.814**	**1.0336**	**1.327**	**1.0300**
Stddev	.0017	.198	.0015	.118	.0013
%RSD	.16125	.39819	.14660	8.892	.12938
#1	1.0268	49.954	1.0325	1.410	1.0310
#2	1.0244	49.674	1.0346	1.243	1.0291
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98287**	**.98071**	**51.517**	**51.249**	**.99641**
Stddev	.00119	.00073	.196	.119	.00082
%RSD	.12104	.07411	.38084	.23316	.08201
#1	.98371	.98122	51.656	51.333	.99699
#2	.98203	.98020	51.378	51.164	.99584
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 17:55:41 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.368**	**.99894**	**1.0097**	**51.304**	**1.0059**
Stddev	.062	.00209	.0016	.094	.0013
%RSD	.12920	.20891	.15441	.18300	.12743
#1	48.412	1.0004	1.0108	51.370	1.0068
#2	48.324	.99746	1.0086	51.238	1.0050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.08**	**1.0220**	**25.390**	**.97463**	**.98774**
Stddev	.00	.0001	.013	.00223	.00053
%RSD	.0093	.00981	.05201	.22902	.05371
#1	38.07	1.0219	25.399	.97305	.98736
#2	38.08	1.0221	25.380	.97621	.98811
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8338**	**1.0271**	**1.0154**	**1.522**	**.98890**
Stddev	.0097	.0019	.0026	.004	.00252
%RSD	.09857	.18475	.25325	.2821	.25475
#1	9.8407	1.0284	1.0172	1.519	.99068
#2	9.8270	1.0257	1.0136	1.525	.98712
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 17:55:41 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0273**	**.99063**	**1.0516**	**1.511**
Stddev	.0021	.00119	.0013	.001
%RSD	.20568	.11970	.12705	.0515
#1	1.0258	.99146	1.0507	1.511
#2	1.0288	.98979	1.0526	1.510
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3348.1**	**3357.7**	**67506.**	**5341.7**
Stddev	2.3	1.8	84.	41.6
%RSD	.06723	.05318	.12458	.77949
#1	3346.6	3358.9	67446.	5312.2
#2	3349.7	3356.4	67565.	5371.1

Sample Name: CCB-7026764 Acquired: 6/10/2022 17:59:21 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00110**	**-.02771**	**.00163**	**.00114**	**.00003**
Stddev	.00016	.00992	.00041	.00003	.00001
%RSD	14.709	35.813	25.204	2.7269	20.813
#1	.00099	-.03472	.00134	.00112	.00004
#2	.00122	-.02069	.00193	.00117	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00023**	**.00000**	**.2319**	**-.00008**
Stddev	.00005	.00151	.00001	.0978	.00001
%RSD	55.572	657.73	315.19	42.19	11.769
#1	.00005	-.00084	-.00000	.1628	-.00009
#2	.00012	.00129	.00001	.3011	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**-.00008**	**.00478**	**-.01163**	**-.00049**
Stddev	.00004	.00011	.00197	.00620	.00117
%RSD	16.461	139.74	41.305	53.336	236.24
#1	.00029	-.00000	.00338	-.01602	.00033
#2	.00023	-.00016	.00617	-.00725	-.00132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 17:59:21 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00301**	**.00006**	**.00196**	**.00275**	**.00009**
Stddev	.00244	.00003	.00053	.00093	.00016
%RSD	81.062	50.889	26.984	33.968	174.24
#1	-.00128	.00008	.00158	.00209	.00021
#2	-.00473	.00004	.00233	.00341	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00119**	**.01254**	**-.00116**	**.00006**
Stddev	.00	.00019	.00084	.00298	.00175
%RSD	.0031	15.783	6.6815	257.00	2853.9
#1	25.00	.00132	.01313	-.00326	-.00118
#2	25.00	.00105	.01194	.00095	.00130
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00312**	**.00072**	**-.00006**	**1.004**	**.00008**
Stddev	.00928	.00041	.00009	.003	.00001
%RSD	297.69	57.329	152.98	.3411	12.016
#1	-.00968	.00102	.00000	1.006	.00009
#2	.00345	.00043	-.00012	1.001	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 17:59:21 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00102**	**-.00019**	**-.00077**	**.9988**
Stddev	.00087	.00019	.00023	.0004
%RSD	84.840	103.94	29.789	.0365
#1	.00163	-.00005	-.00093	.9986
#2	.00041	-.00032	-.00061	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4010.2**	**3631.3**	**74030.**	**5598.3**
Stddev	2.7	.5	6.	20.4
%RSD	.06653	.01329	.00870	.36451
#1	4008.4	3631.7	74035.	5612.7
#2	4012.1	3631.0	74025.	5583.9

Sample Name: CCVL-7028546 Acquired: 6/10/2022 18:03:16 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00581**	**.18913**	**.01355**	**.01976**	**.00211**
Stddev	.00024	.00641	.00259	.00014	.00002
%RSD	4.1316	3.3893	19.118	.71868	1.0477
#1	.00598	.19366	.01171	.01966	.00213
#2	.00564	.18459	.01538	.01986	.00210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00203**	**.48609**	**.00201**	**.1366**	**.00391**
Stddev	.00001	.00329	.00003	.0690	.00002
%RSD	.50614	.67643	1.2498	50.55	.44807
#1	.00202	.48842	.00199	.0878	.00393
#2	.00203	.48377	.00202	.1854	.00390
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00360**	**.00933**	**.05006**	**.45035**	**.02666**
Stddev	.00007	.00040	.00117	.02758	.00010
%RSD	1.9991	4.3023	2.3292	6.1243	.38119
#1	.00366	.00905	.04923	.46985	.02659
#2	.00355	.00962	.05088	.43085	.02674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/10/2022 18:03:16 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18322**	**.00333**	**.00917**	**.96920**	**.00944**
Stddev	.00177	.00001	.00006	.00572	.00008
%RSD	.96801	.32315	.70795	.59040	.85776
#1	.18447	.00332	.00912	.97324	.00939
#2	.18196	.00333	.00921	.96515	.00950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00991**	**.19533**	**.01626**	**.02057**
Stddev	.00	.00063	.00093	.00170	.00219
%RSD	.0028	6.3594	.47415	10.440	10.656
#1	25.00	.01035	.19599	.01506	.02212
#2	25.00	.00946	.19468	.01746	.01902
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.43815**	**.00848**	**.00494**	F **1.003**	**.00421**
Stddev	.00314	.00016	.00004	.001	.00020
%RSD	.71711	1.9383	.73207	.1110	4.6529
#1	.43592	.00837	.00496	1.002	.00407
#2	.44037	.00860	.00491	1.004	.00434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/10/2022 18:03:16 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02060**	**.00477**	**.00784**	F **1.000**
Stddev	.00037	.00012	.00021	.000
%RSD	1.8058	2.5310	2.6657	.0401
#1	.02033	.00486	.00769	1.001
#2	.02086	.00469	.00799	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3964.4**	**3621.6**	**73565.**	**5613.7**
Stddev	5.5	1.5	42.	6.3
%RSD	.13828	.04274	.05770	.11205
#1	3960.5	3622.7	73595.	5618.1
#2	3968.3	3620.5	73535.	5609.2

Sample Name: 240-167703-AR-5-A MS Acquired: 6/10/2022 18:07:08 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04626**	**9.3830**	**.19841**	**.24613**	**.22221**
Stddev	.00054	.0140	.00127	.00063	.00002
%RSD	1.1672	.14940	.63935	.25406	.00764
#1	.04588	9.3929	.19751	.24569	.22222
#2	.04665	9.3730	.19931	.24657	.22220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19912**	**112.81**	**.19568**	**.1916**	**.19540**
Stddev	.00029	.15	.00024	.0490	.00014
%RSD	.14339	.13363	.12237	25.57	.07336
#1	.19932	112.92	.19585	.1569	.19530
#2	.19892	112.71	.19551	.2262	.19550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18462**	**.19090**	**9.6782**	**10.587**	**.19107**
Stddev	.00129	.00077	.0119	.050	.00143
%RSD	.69791	.40466	.12275	.47314	.74917
#1	.18371	.19035	9.6866	10.622	.19005
#2	.18553	.19145	9.6698	10.551	.19208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-167703-AR-5-A MS Acquired: 6/10/2022 18:07:08 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.870**	**.19446**	**.19553**	**13.467**	**.18753**
Stddev	.044	.00005	.00046	.004	.00022
%RSD	.14581	.02819	.23409	.02904	.11556
#1	29.839	.19442	.19586	13.469	.18768
#2	29.900	.19450	.19521	13.464	.18738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.19677**	**57.109**	**.19301**	**.18560**
Stddev	.00	.00042	.055	.00029	.00095
%RSD	.0014	.21234	.09568	.15188	.51027
#1	25.00	.19647	57.148	.19281	.18627
#2	25.00	.19706	57.071	.19322	.18493
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.081**	**.24103**	**.29354**	**1.006**	**.18994**
Stddev	.046	.00055	.00003	.003	.00045
%RSD	.32329	.22890	.01176	.2759	.23674
#1	14.113	.24142	.29351	1.004	.19026
#2	14.049	.24064	.29356	1.008	.18962
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-167703-AR-5-A MS Acquired: 6/10/2022 18:07:08 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19758**	**.18715**	**.18865**	**.9998**
Stddev	.00016	.00011	.00007	.0002
%RSD	.08122	.05743	.03511	.0221
#1	.19747	.18707	.18870	.9996
#2	.19769	.18722	.18861	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3520.9**	**3439.9**	**69948.**	**5636.5**
Stddev	3.4	8.0	79.	14.1
%RSD	.09757	.23251	.11309	.24995
#1	3518.5	3434.3	69892.	5626.6
#2	3523.4	3445.6	70004.	5646.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.480%	95.573%	95.639%	97.919%
Range				

Sample Name: 167703-AS-5-A MSD Acquired: 6/10/2022 18:10:48 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04415**	**9.1742**	**.19421**	**.24531**	**.22055**
Stddev	.00007	.0076	.00110	.00003	.00015
%RSD	.15059	.08228	.56427	.01279	.06854
#1	.04420	9.1689	.19344	.24529	.22066
#2	.04410	9.1796	.19499	.24534	.22044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19644**	**113.46**	**.19305**	**.0374**	**.19255**
Stddev	.00068	.29	.00003	.0077	.00013
%RSD	.34377	.25417	.01594	20.50	.06649
#1	.19692	113.67	.19303	.0428	.19264
#2	.19596	113.26	.19307	.0320	.19246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17943**	**.18630**	**9.5482**	**10.475**	**.18805**
Stddev	.00080	.00026	.0185	.038	.00135
%RSD	.44535	.13775	.19352	.36048	.72002
#1	.17887	.18612	9.5612	10.501	.18900
#2	.18000	.18648	9.5351	10.448	.18709
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 167703-AS-5-A MSD Acquired: 6/10/2022 18:10:48 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.315**	**.19175**	**.19264**	**13.456**	**.18392**
Stddev	.012	.00028	.00046	.041	.00055
%RSD	.03905	.14842	.24035	.30375	.29666
#1	30.306	.19155	.19297	13.485	.18431
#2	30.323	.19195	.19232	13.427	.18353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.19388**	**58.110**	**.18815**	**.17866**
Stddev	.00	.00072	.051	.00138	.00261
%RSD	.0030	.36909	.08822	.73377	1.4620
#1	25.00	.19438	58.146	.18717	.18051
#2	25.00	.19337	58.073	.18913	.17682
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.956**	**.23591**	**.29342**	**1.005**	**.18612**
Stddev	.058	.00122	.00121	.006	.00001
%RSD	.41557	.51857	.41381	.6152	.00380
#1	13.997	.23677	.29428	1.009	.18613
#2	13.915	.23504	.29256	1.001	.18612
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 167703-AS-5-A MSD Acquired: 6/10/2022 18:10:48 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19261**	**.18324**	**.18730**	**.9994**
Stddev	.00113	.00043	.00039	.0001
%RSD	.58721	.23482	.20973	.0077
#1	.19181	.18355	.18758	.9994
#2	.19341	.18294	.18703	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3516.9**	**3440.9**	**70263.**	**5643.1**
Stddev	.1	1.5	53.	5.2
%RSD	.00175	.04425	.07528	.09190
#1	3516.8	3442.0	70225.	5639.5
#2	3516.9	3439.8	70300.	5646.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.380%	95.600%	96.069%	98.034%
Range				

Sample Name: 240-167703-O-6-A Acquired: 6/10/2022 18:14:29 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**-.01335**	**.00016**	**.00077**	**.00004**
Stddev	.00173	.00372	.00111	.00001	.00001
%RSD	303.21	27.895	715.28	1.7056	36.477
#1	.00179	-.01071	.00094	.00076	.00005
#2	-.00065	-.01598	-.00063	.00078	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.01679**	**-.00004**	**.2113**	**-.00002**
Stddev	.00003	.00071	.00013	.3501	.00001
%RSD	97.526	4.2078	319.19	165.7	55.525
#1	.00005	.01729	-.00014	.4589	-.00001
#2	.00001	.01629	.00005	-.0363	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**-.00028**	**.00505**	**-.03129**	**-.00040**
Stddev	.00038	.00034	.00235	.00510	.00206
%RSD	87.722	122.60	46.559	16.302	515.14
#1	.00016	-.00004	.00339	-.02768	.00105
#2	.00070	-.00052	.00672	-.03490	-.00185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-167703-O-6-A Acquired: 6/10/2022 18:14:29 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00003**	**-.00074**	**.02895**	**.00027**
Stddev	.00107	.00002	.00020	.00100	.00011
%RSD	319.38	67.121	26.645	3.4686	40.901
#1	-.00109	.00004	-.00088	.02824	.00019
#2	.00042	.00001	-.00060	.02966	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00127**	**.01890**	**-.00133**	**-.00206**
Stddev	.00	.00056	.00126	.00134	.00024
%RSD	.0005	43.782	6.6529	100.34	11.671
#1	25.00	.00167	.01979	-.00228	-.00189
#2	25.00	.00088	.01801	-.00039	-.00223
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00382**	**-.00000**	**-.00003**	**1.001**	**-.00042**
Stddev	.01679	.00006	.00007	.001	.00028
%RSD	439.81	2829.5	224.66	.1001	67.129
#1	-.01569	-.00005	-.00008	.9999	-.00022
#2	.00805	.00004	.00002	1.001	-.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-167703-O-6-A Acquired: 6/10/2022 18:14:29 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00047**	**-.00005**	**-.00132**	**.9997**
Stddev	.00038	.00003	.00013	.0002
%RSD	81.757	52.164	9.5889	.0246
#1	.00020	-.00007	-.00140	.9995
#2	.00074	-.00003	-.00123	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3973.8**	**3623.8**	**73781.**	**5715.1**
Stddev	1.1	1.2	62.	19.9
%RSD	.02736	.03326	.08441	.34829
#1	3973.1	3622.9	73737.	5701.0
#2	3974.6	3624.6	73825.	5729.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.734%	100.68%	100.88%	99.284%
Range				

Sample Name: 240-167703-O-8-A Acquired: 6/10/2022 18:18:22 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.00095**	**.00102**	**.01694**	**.04364**
Stddev	.00020	.00174	.00015	.00034	.00004
%RSD	41.641	183.72	14.469	2.0089	.08151
#1	-.00061	.00218	.00113	.01718	.04362
#2	-.00033	-.00028	.00092	.01670	.04367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**177.39**	**.00000**	**.0466**	**.00002**
Stddev	.00004	.72	.00002	.1039	.00022
%RSD	29.063	.40779	475.73	222.8	1051.2
#1	.00016	176.88	.00002	.1201	.00017
#2	.00010	177.91	-.00001	-.0268	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**-.00140**	**.00353**	**.26564**	**.00565**
Stddev	.00005	.00025	.00288	.01297	.00116
%RSD	10.646	17.973	81.471	4.8813	20.608
#1	.00044	-.00157	.00557	.25647	.00647
#2	.00051	-.00122	.00150	.27481	.00482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-167703-O-8-A Acquired: 6/10/2022 18:18:22 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.383**	**.00037**	**-.00137**	**2.9968**	**.00014**
Stddev	.044	.00001	.00016	.0096	.00028
%RSD	.11809	3.4534	11.341	.32129	202.10
#1	37.352	.00036	-.00126	2.9900	-.00006
#2	37.414	.00038	-.00148	3.0036	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00289**	**14.179**	**-.00430**	**-.00929**
Stddev	.00	.00067	.005	.00315	.00483
%RSD	.0018	23.138	.03372	73.091	51.964
#1	25.00	.00242	14.182	-.00653	-.01270
#2	25.00	.00337	14.175	-.00208	-.00588
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.421**	**.00033**	**.20989**	**1.004**	**.00037**
Stddev	.094	.00016	.00046	.002	.00009
%RSD	.90093	47.801	.21805	.1850	23.558
#1	10.354	.00022	.20957	1.002	.00043
#2	10.487	.00044	.21021	1.005	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-167703-O-8-A Acquired: 6/10/2022 18:18:22 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00139**	**.00003**	**-.00147**	**.9995**
Stddev	.00096	.00017	.00001	.0004
%RSD	69.081	563.48	.93452	.0409
#1	.00071	-.00009	-.00146	.9998
#2	.00206	.00015	-.00148	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3493.4**	**3375.3**	**68891.**	**5555.3**
Stddev	2.7	2.8	47.	13.8
%RSD	.07724	.08190	.06770	.24920
#1	3491.5	3373.4	68924.	5565.0
#2	3495.4	3377.3	68858.	5545.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.798%	93.779%	94.193%	96.507%
Range				

Sample Name: 240-167703-O-9-A Acquired: 6/10/2022 18:22:18 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00102**	**-.00826**	**.00239**	**.01108**	**.07914**
Stddev	.00009	.00089	.00136	.00031	.00003
%RSD	8.6660	10.754	56.999	2.7874	.03440
#1	.00109	-.00763	.00143	.01086	.07912
#2	.00096	-.00888	.00336	.01130	.07916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**77.636**	**-.00009**	**.2970**	**-.00004**
Stddev	.00004	.018	.00009	.0562	.00001
%RSD	32.190	.02315	102.82	18.93	31.092
#1	.00009	77.649	-.00015	.3368	-.00005
#2	.00014	77.623	-.00002	.2573	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**-.00096**	**1.3284**	**1.6558**	**.00277**
Stddev	.00024	.00007	.0012	.0280	.00024
%RSD	54.698	7.1605	.08720	1.6943	8.7883
#1	.00027	-.00091	1.3276	1.6757	.00260
#2	.00060	-.00100	1.3292	1.6360	.00294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-167703-O-9-A Acquired: 6/10/2022 18:22:18 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.978**	**.07988**	**.00020**	**2.4660**	**.00020**
Stddev	.063	.00015	.00004	.0001	.00013
%RSD	.27262	.19191	17.404	.00337	65.185
#1	22.934	.07977	.00018	2.4661	.00011
#2	23.023	.07999	.00023	2.4660	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00230**	**6.8126**	**-.00058**	**-.00686**
Stddev	.00	.00049	.0067	.00211	.00291
%RSD	.0012	21.350	.09868	361.15	42.467
#1	25.00	.00264	6.8079	.00091	-.00892
#2	25.01	.00195	6.8174	-.00208	-.00480
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.6287**	**-.00047**	**.08786**	**1.004**	**-.00000**
Stddev	.0039	.00089	.00000	.005	.00026
%RSD	.08311	188.07	.00145	.4667	14659.
#1	4.6314	-.00110	.08786	1.007	-.00018
#2	4.6259	.00016	.08786	1.000	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-167703-O-9-A Acquired: 6/10/2022 18:22:18 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00021**	**-.00013**	**-.00102**	**.9992**
Stddev	.00013	.00027	.00005	.0002
%RSD	63.096	212.49	5.1678	.0203
#1	-.00011	.00006	-.00105	.9990
#2	-.00030	-.00032	-.00098	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3678.9**	**3495.8**	**71403.**	**5669.6**
Stddev	1.5	2.5	102.	9.4
%RSD	.04192	.07095	.14306	.16613
#1	3677.8	3494.1	71475.	5662.9
#2	3680.0	3497.6	71330.	5676.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.405%	97.126%	97.628%	98.494%
Range				

Sample Name: 240-167703-O-10-A Acquired: 6/10/2022 18:26:08 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**-.00871**	**.00029**	**.03232**	**.13663**
Stddev	.00030	.00124	.00045	.00007	.00018
%RSD	57.102	14.282	158.44	.22348	.13093
#1	.00031	-.00783	-.00003	.03237	.13650
#2	.00074	-.00959	.00061	.03227	.13675
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**90.598**	**.00000**	**.2339**	**.00018**
Stddev	.00004	.225	.00011	.0694	.00018
%RSD	156.61	.24883	2420.6	29.67	102.99
#1	.00005	90.439	.00008	.1848	.00031
#2	-.00000	90.758	-.00007	.2830	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**-.00133**	**1.4780**	**2.6699**	**.00754**
Stddev	.00043	.00009	.0006	.0092	.00025
%RSD	315.65	6.3991	.04395	.34620	3.3399
#1	-.00017	-.00139	1.4775	2.6633	.00772
#2	.00044	-.00127	1.4784	2.6764	.00737
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-167703-O-10-A Acquired: 6/10/2022 18:26:08 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.188**	**.11092**	**.00239**	**18.989**	**.00105**
Stddev	.015	.00024	.00011	.042	.00005
%RSD	.05310	.21602	4.5729	.22046	4.8284
#1	28.177	.11075	.00231	18.960	.00109
#2	28.199	.11109	.00247	19.019	.00102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00211**	**7.5826**	**-.00384**	**-.00851**
Stddev	.00	.00090	.0052	.00071	.00314
%RSD	.0020	42.663	.06917	18.455	36.953
#1	25.00	.00275	7.5863	-.00334	-.00629
#2	25.00	.00148	7.5789	-.00434	-.01073
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.1931**	**.00288**	**.33519**	**1.004**	**.00017**
Stddev	.0144	.00018	.00057	.000	.00016
%RSD	.23278	6.3533	.16925	.0389	94.872
#1	6.1829	.00275	.33479	1.004	.00006
#2	6.2033	.00301	.33559	1.004	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-167703-O-10-A Acquired: 6/10/2022 18:26:08 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00040**	**.00014**	**-.00112**	**.9990**
Stddev	.00028	.00015	.00027	.0002
%RSD	69.827	108.58	24.076	.0200
#1	.00020	.00003	-.00131	.9988
#2	.00059	.00024	-.00093	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3596.2**	**3479.1**	**70656.**	**5686.5**
Stddev	6.4	6.5	43.	2.3
%RSD	.17714	.18772	.06015	.04066
#1	3591.7	3474.4	70687.	5684.8
#2	3600.7	3483.7	70626.	5688.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.350%	96.661%	96.608%	98.786%
Range				

Sample Name: 240-167703-O-11-A Acquired: 6/10/2022 18:29:58 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00625**	**.00159**	**.03834**	**.14944**
Stddev	.00059	.00819	.00111	.00095	.00012
%RSD	412.01	131.04	70.165	2.4809	.07995
#1	-.00056	-.00046	.00080	.03767	.14952
#2	.00027	-.01204	.00238	.03901	.14935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**94.374**	**.00007**	**.0292**	**.00095**
Stddev	.00005	.038	.00010	.1309	.00004
%RSD	45.537	.03976	144.63	448.1	4.1557
#1	.00007	94.347	.00015	-.0634	.00097
#2	.00014	94.400	-.00000	.1218	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**-.00031**	**.53277**	**1.6046**	**.00871**
Stddev	.00047	.00011	.00006	.0177	.00126
%RSD	71.349	36.558	.01101	1.1030	14.432
#1	.00100	-.00039	.53273	1.5921	.00960
#2	.00033	-.00023	.53281	1.6171	.00782
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-167703-O-11-A Acquired: 6/10/2022 18:29:58 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.046**	**.10482**	**.00208**	**25.702**	**.00335**
Stddev	.007	.00004	.00010	.018	.00012
%RSD	.02603	.03603	4.9792	.07082	3.5956
#1	28.051	.10484	.00201	25.715	.00327
#2	28.040	.10479	.00215	25.690	.00344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00244**	**11.580**	**-.00429**	**-.00741**
Stddev	.00	.00073	.027	.00131	.00088
%RSD	.0041	30.054	.23548	30.449	11.874
#1	25.00	.00296	11.560	-.00337	-.00679
#2	25.00	.00192	11.599	-.00522	-.00803
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.1970**	**.00007**	**.34096**	**1.004**	**-.00004**
Stddev	.0114	.00126	.00107	.001	.00006
%RSD	.18452	1775.8	.31337	.0982	130.21
#1	6.1889	.00096	.34171	1.004	-.00008
#2	6.2051	-.00082	.34020	1.003	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-167703-O-11-A Acquired: 6/10/2022 18:29:58 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00125**	**-.00003**	**.00583**	**.9996**
Stddev	.00100	.00063	.00040	.0007
%RSD	80.582	2175.1	6.8493	.0729
#1	.00054	-.00047	.00611	1.000
#2	.00196	.00042	.00555	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3540.5**	**3436.6**	**70155.**	**5616.2**
Stddev	1.0	6.1	14.	25.7
%RSD	.02812	.17842	.01970	.45825
#1	3539.8	3440.9	70145.	5634.4
#2	3541.2	3432.3	70165.	5598.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.967%	95.481%	95.922%	97.566%
Range				

Sample Name: 620-4903-J-1-A Acquired: 6/10/2022 18:33:47 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.01132**	**.00356**	**.12317**	**.07058**
Stddev	.00066	.01583	.00020	.00018	.00005
%RSD	184.06	139.90	5.6550	.14344	.06653
#1	-.00011	.00012	.00342	.12304	.07062
#2	.00082	.02251	.00371	.12329	.07055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**16.026**	**.00009**	**.1539**	**.00097**
Stddev	.00005	.035	.00005	.1962	.00016
%RSD	36.205	.22127	53.516	127.5	16.841
#1	.00010	16.001	.00005	.0152	.00108
#2	.00017	16.052	.00012	.2927	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00452**	**.30171**	**4.7394**	**.00062**
Stddev	.00013	.00024	.00073	.0038	.00014
%RSD	67.685	5.3642	.24294	.08005	23.212
#1	.00010	.00469	.30119	4.7421	.00052
#2	.00028	.00435	.30223	4.7367	.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4903-J-1-A Acquired: 6/10/2022 18:33:47 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.7505**	**.35850**	**-.00131**	**80.605**	**.00143**
Stddev	.0017	.00040	.00019	.145	.00005
%RSD	.06309	.11127	14.450	.18001	3.2816
#1	2.7517	.35878	-.00145	80.707	.00146
#2	2.7493	.35822	-.00118	80.502	.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00110**	**5.1543**	**-.00292**	**-.00650**
Stddev	.00	.00036	.0070	.00165	.00139
%RSD	.0009	32.868	.13613	56.678	21.400
#1	25.00	.00136	5.1592	-.00175	-.00551
#2	25.00	.00085	5.1493	-.00408	-.00748
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.5110**	**-.00064**	**.15588**	**.9973**	**-.00046**
Stddev	.0094	.00082	.00022	.0020	.00017
%RSD	.17104	129.01	.14342	.2054	36.171
#1	5.5043	-.00122	.15604	.9959	-.00034
#2	5.5176	-.00006	.15572	.9988	-.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4903-J-1-A Acquired: 6/10/2022 18:33:47 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00001**	**.00280**	**.9989**
Stddev	.00067	.00015	.00093	.0007
%RSD	388.02	2344.8	33.013	.0746
#1	.00030	-.00010	.00215	.9994
#2	-.00065	.00011	.00346	.9984
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3648.1**	**3516.8**	**70973.**	**5670.1**
Stddev	3.3	1.5	54.	26.2
%RSD	.09010	.04265	.07632	.46163
#1	3645.8	3517.9	70934.	5688.6
#2	3650.5	3515.8	71011.	5651.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.641%	97.710%	97.040%	98.502%
Range				

Sample Name: 620-4903-J-2-A Acquired: 6/10/2022 18:37:36 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.01293**	**.00116**	**.21437**	**.08857**
Stddev	.00085	.02126	.00003	.00108	.00011
%RSD	657.42	164.44	2.9115	.50596	.12217
#1	.00073	.00210	.00113	.21514	.08865
#2	-.00047	-.02796	.00118	.21361	.08849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**17.374**	**-.00001**	**.0789**	**.00166**
Stddev	.00007	.060	.00004	.2147	.00007
%RSD	127.13	.34412	674.97	272.0	4.1970
#1	.00010	17.416	.00002	.2307	.00161
#2	.00001	17.332	-.00003	-.0729	.00171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00828**	**6.4714**	**4.9101**	**-.00039**
Stddev	.00052	.00002	.0308	.0296	.00158
%RSD	844.65	.20850	.47585	.60347	408.49
#1	-.00031	.00826	6.4932	4.8891	.00073
#2	.00043	.00829	6.4496	4.9310	-.00150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4903-J-2-A Acquired: 6/10/2022 18:37:36 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.0781**	**.40815**	**-.00172**	**115.77**	**.00110**
Stddev	.0014	.00007	.00001	.45	.00004
%RSD	.04511	.01729	.69323	.38450	3.9284
#1	3.0791	.40820	-.00171	116.09	.00114
#2	3.0771	.40810	-.00173	115.46	.00107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00176**	**5.3637**	**-.00252**	**-.00703**
Stddev	.00	.00039	.0020	.00138	.00077
%RSD	.0003	22.074	.03786	54.728	10.897
#1	25.01	.00203	5.3623	-.00154	-.00757
#2	25.01	.00148	5.3651	-.00350	-.00649
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.1186**	**-.00053**	**.18646**	**1.005**	**-.00055**
Stddev	.0003	.00015	.00043	.005	.00020
%RSD	.00522	28.764	.22875	.4710	36.491
#1	6.1188	-.00042	.18676	1.002	-.00069
#2	6.1184	-.00064	.18616	1.008	-.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4903-J-2-A Acquired: 6/10/2022 18:37:36 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.00005**	**.00455**	**.9995**
Stddev	.00117	.00032	.00056	.0004
%RSD	316.01	690.85	12.249	.0383
#1	.00046	.00027	.00494	.9998
#2	-.00120	-.00018	.00415	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3594.8**	**3480.8**	**70298.**	**5652.5**
Stddev	8.3	5.9	27.	42.0
%RSD	.23137	.16955	.03893	.74294
#1	3589.0	3476.7	70317.	5622.8
#2	3600.7	3485.0	70279.	5682.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.317%	96.710%	96.117%	98.196%
Range				

Sample Name: CCV-7024752 Acquired: 6/10/2022 18:41:26 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94546**	**48.686**	**.98497**	**1.0285**	**1.0223**
Stddev	.00450	.033	.00041	.0018	.0001
%RSD	.47583	.06784	.04174	.17337	.01246
#1	.94864	48.662	.98468	1.0273	1.0222
#2	.94228	48.709	.98526	1.0298	1.0224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99816**	**48.831**	**1.0096**	**1.247**	**1.0066**
Stddev	.00076	.081	.0002	.051	.0011
%RSD	.07600	.16498	.02036	4.113	.10681
#1	.99870	48.888	1.0098	1.283	1.0073
#2	.99762	48.774	1.0095	1.211	1.0058
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96603**	**.96723**	**50.298**	**50.077**	**.97527**
Stddev	.00068	.00549	.240	.001	.00218
%RSD	.07082	.56716	.47683	.00118	.22343
#1	.96555	.97111	50.128	50.076	.97681
#2	.96652	.96335	50.467	50.077	.97373
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 18:41:26 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.815**	**.98365**	**.98668**	**50.109**	**.98974**
Stddev	.058	.00216	.00141	.018	.00050
%RSD	.12154	.21929	.14274	.03624	.05002
#1	47.856	.98518	.98768	50.121	.99009
#2	47.774	.98213	.98569	50.096	.98939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.78**	**1.0032**	**24.953**	**.95682**	**.97304**
Stddev	.01	.0003	.021	.00356	.00227
%RSD	.0356	.02652	.08504	.37258	.23319
#1	37.77	1.0034	24.938	.95934	.97464
#2	37.79	1.0030	24.968	.95430	.97143
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6840**	**1.0061**	**.99238**	**1.503**	**.97077**
Stddev	.0241	.0022	.00091	.006	.00323
%RSD	.24923	.21799	.09159	.3800	.33302
#1	9.6669	1.0045	.99173	1.507	.97305
#2	9.7011	1.0076	.99302	1.499	.96848
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 18:41:26 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0060**	**.97593**	**1.0286**	**1.498**
Stddev	.0001	.00281	.0014	.003
%RSD	.01384	.28814	.14113	.1855
#1	1.0059	.97792	1.0276	1.496
#2	1.0061	.97394	1.0296	1.500
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3410.6**	**3423.7**	**68497.**	**5471.1**
Stddev	.2	2.2	130.	5.9
%RSD	.00700	.06421	.18933	.10863
#1	3410.8	3425.2	68405.	5466.9
#2	3410.4	3422.1	68588.	5475.3

Sample Name: CCB-7026764 Acquired: 6/10/2022 18:45:06 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.02141**	**.00202**	**.00066**	**.00004**
Stddev	.00087	.00954	.00062	.00001	.00000
%RSD	3212.9	44.573	30.730	.95058	2.2360
#1	-.00064	-.02815	.00246	.00066	.00004
#2	.00059	-.01466	.00158	.00065	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00168**	**-.00010**	**.1156**	**-.00004**
Stddev	.00005	.00005	.00006	.2573	.00011
%RSD	133.90	2.8106	61.989	222.7	266.65
#1	.00000	-.00172	-.00014	-.0664	.00004
#2	.00008	-.00165	-.00005	.2975	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**-.00059**	**.00438**	**.01909**	**-.00174**
Stddev	.00026	.00023	.00261	.04193	.00046
%RSD	93.049	38.969	59.710	219.62	26.322
#1	.00010	-.00043	.00253	.04874	-.00207
#2	.00047	-.00076	.00622	-.01056	-.00142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 18:45:06 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.00011**	**.00195**	**.01710**	**.00021**
Stddev	.00154	.00000	.00023	.00011	.00008
%RSD	407.90	.68031	11.562	.67185	38.952
#1	-.00071	.00011	.00179	.01718	.00027
#2	.00146	.00011	.00211	.01702	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00104**	**.00692**	**-.00269**	**.00574**
Stddev	.00	.00023	.00162	.00009	.00263
%RSD	.0040	22.227	23.392	3.4132	45.822
#1	25.00	.00088	.00806	-.00262	.00388
#2	25.00	.00121	.00577	-.00275	.00760
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01067**	**.00015**	**-.00007**	**1.005**	**.00003**
Stddev	.00146	.00035	.00013	.001	.00004
%RSD	13.680	235.13	174.00	.0513	162.02
#1	-.00964	-.00010	-.00017	1.005	.00006
#2	-.01170	.00040	.00002	1.005	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 18:45:06 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00068**	**-.00015**	**-.00063**	**.9994**
Stddev	.00097	.00006	.00008	.0000
%RSD	143.66	41.492	12.255	.0047
#1	.00136	-.00011	-.00068	.9993
#2	-.00001	-.00020	-.00057	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3976.5**	**3597.3**	**73784.**	**5620.8**
Stddev	.3	2.0	135.	5.7
%RSD	.00634	.05443	.18249	.10144
#1	3976.3	3598.6	73879.	5616.7
#2	3976.7	3595.9	73688.	5624.8

Sample Name: CCVL-7028546 Acquired: 6/10/2022 18:49:01 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00587**	**.18857**	**.01299**	**.01910**	**.00210**
Stddev	.00027	.00527	.00206	.00006	.00002
%RSD	4.6275	2.7960	15.843	.28897	.93558
#1	.00606	.18484	.01153	.01906	.00212
#2	.00568	.19230	.01444	.01913	.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00202**	**.47394**	**.00180**	**.1249**	**.00379**
Stddev	.00001	.00279	.00007	.1608	.00012
%RSD	.48608	.58822	3.6771	128.7	3.0723
#1	.00202	.47591	.00185	.2386	.00387
#2	.00201	.47197	.00175	.0112	.00370
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00386**	**.00953**	**.04949**	**.42861**	**.02666**
Stddev	.00003	.00054	.00114	.00429	.00025
%RSD	.77885	5.7070	2.3095	1.0018	.92391
#1	.00388	.00991	.04869	.43164	.02684
#2	.00384	.00914	.05030	.42557	.02649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/10/2022 18:49:01 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17997**	**.00322**	**.00895**	**.95429**	**.00934**
Stddev	.00323	.00004	.00024	.00001	.00015
%RSD	1.7954	1.2821	2.7107	.00146	1.6230
#1	.17769	.00325	.00878	.95430	.00945
#2	.18226	.00319	.00912	.95428	.00923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00941**	**.19010**	**.01488**	**.01858**
Stddev	.00	.00001	.00047	.00042	.00057
%RSD	.0017	.12557	.24901	2.8081	3.0780
#1	25.00	.00940	.18976	.01518	.01818
#2	25.00	.00941	.19043	.01459	.01899
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.43371**	**.00921**	**.00484**	F **1.000**	**.00417**
Stddev	.00952	.00001	.00013	.004	.00011
%RSD	2.1950	.08536	2.6065	.4122	2.7131
#1	.42698	.00922	.00475	.9976	.00425
#2	.44044	.00921	.00493	1.003	.00409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/10/2022 18:49:01 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01944**	**.00450**	**.00788**	F **1.0000**
Stddev	.00001	.00010	.00033	.0000
%RSD	.06321	2.2233	4.2382	.0016
#1	.01945	.00443	.00812	.9999
#2	.01943	.00457	.00765	1.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4012.1**	**3661.4**	**74882.**	**5727.0**
Stddev	1.4	4.6	27.	24.2
%RSD	.03465	.12560	.03627	.42204
#1	4013.1	3664.6	74863.	5744.1
#2	4011.2	3658.1	74902.	5709.9

Sample Name: 620-4903-J-3-A Acquired: 6/10/2022 18:52:53 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**-.00423**	**.00193**	**.20313**	**.08540**
Stddev	.00076	.00561	.00159	.00034	.00005
%RSD	262.61	132.63	82.480	.16765	.05613
#1	-.00082	-.00026	.00080	.20337	.08543
#2	.00025	-.00820	.00305	.20289	.08537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**16.714**	**.00001**	**-.0608**	**.00167**
Stddev	.00002	.006	.00014	.1607	.00004
%RSD	16.182	.03566	1028.8	264.3	2.1878
#1	.00008	16.709	.00011	-.1744	.00169
#2	.00010	16.718	-.00008	.0528	.00164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00922**	**5.7449**	**4.7204**	**-.00008**
Stddev	.00020	.00020	.0127	.0136	.00014
%RSD	101.00	2.1898	.22115	.28779	177.82
#1	.00033	.00908	5.7359	4.7300	-.00018
#2	.00006	.00937	5.7538	4.7108	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4903-J-3-A Acquired: 6/10/2022 18:52:53 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.9213**	**.41354**	**-.00117**	**110.09**	**.00106**
Stddev	.0052	.00006	.00023	.01	.00010
%RSD	.17706	.01331	19.594	.01254	9.5845
#1	2.9177	.41358	-.00101	110.08	.00098
#2	2.9250	.41350	-.00133	110.10	.00113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00187**	**5.2737**	**-.00262**	**-.00745**
Stddev	.00	.00107	.0031	.00082	.00088
%RSD	.0100	57.384	.05814	31.158	11.812
#1	25.01	.00111	5.2758	-.00320	-.00807
#2	25.01	.00263	5.2715	-.00204	-.00682
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.9107**	**-.00056**	**.17711**	**1.002**	**-.00045**
Stddev	.0235	.00058	.00032	.004	.00003
%RSD	.39830	103.47	.18346	.4370	7.1772
#1	5.8940	-.00015	.17734	1.005	-.00048
#2	5.9273	-.00097	.17688	.9987	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4903-J-3-A Acquired: 6/10/2022 18:52:53 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00002**	**.00824**	**.9990**
Stddev	.00049	.00014	.00051	.0006
%RSD	545.01	851.45	6.2269	.0636
#1	-.00044	.00012	.00860	.9985
#2	.00026	-.00008	.00787	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3600.2**	**3500.6**	**70948.**	**5698.9**
Stddev	1.0	2.5	73.	.4
%RSD	.02721	.07031	.10345	.00643
#1	3599.5	3502.3	71000.	5699.2
#2	3600.9	3498.8	70896.	5698.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.451%	97.259%	97.006%	99.003%
Range				

Sample Name: 620-4903-J-4-A Acquired: 6/10/2022 18:56:40 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00125**	**.00149**	**.08803**	**.03872**
Stddev	.00085	.01463	.00238	.00023	.00010
%RSD	1468.4	1165.5	158.99	.26087	.25608
#1	-.00066	.01160	-.00019	.08819	.03879
#2	.00054	-.00909	.00317	.08787	.03865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**13.704**	**.00001**	**.1362**	**.00006**
Stddev	.00001	.012	.00013	.0389	.00021
%RSD	20.559	.08523	1098.2	28.57	342.78
#1	.00004	13.712	.00010	.1637	.00021
#2	.00005	13.696	-.00008	.1087	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**.00151**	**.14351**	**3.3281**	**.00064**
Stddev	.00005	.00017	.00361	.0010	.00144
%RSD	11.539	11.560	2.5151	.02926	226.18
#1	.00048	.00163	.14607	3.3274	.00166
#2	.00041	.00139	.14096	3.3288	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4903-J-4-A Acquired: 6/10/2022 18:56:40 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.4220**	**.10082**	**-.00112**	**67.570**	**.00077**
Stddev	.0134	.00009	.00021	.211	.00015
%RSD	.55359	.09006	19.181	.31163	20.044
#1	2.4125	.10076	-.00127	67.421	.00066
#2	2.4315	.10089	-.00097	67.719	.00088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00161**	**4.1343**	**-.00195**	**-.00801**
Stddev	.00	.00111	.0047	.00055	.00049
%RSD	.0018	68.997	.11496	27.981	6.1295
#1	25.01	.00239	4.1309	-.00157	-.00766
#2	25.01	.00082	4.1376	-.00234	-.00835
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.3945**	**-.00037**	**.12546**	**.9985**	**-.00051**
Stddev	.0198	.00010	.00023	.0010	.00013
%RSD	.45093	25.911	.18153	.0983	25.592
#1	4.4085	-.00031	.12562	.9978	-.00061
#2	4.3805	-.00044	.12530	.9992	-.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4903-J-4-A Acquired: 6/10/2022 18:56:40 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00174**	**.00014**	**-.00122**	**.9993**
Stddev	.00048	.00001	.00009	.0000
%RSD	27.365	4.5392	7.0846	.0020
#1	.00208	.00013	-.00128	.9993
#2	.00140	.00014	-.00116	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3654.8**	**3494.3**	**70830.**	**5595.8**
Stddev	3.6	3.4	134.	2.1
%RSD	.09790	.09868	.18978	.03695
#1	3652.3	3491.9	70925.	5594.3
#2	3657.3	3496.7	70735.	5597.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.807%	97.084%	96.845%	97.211%
Range				

Sample Name: 620-4903-J-5-A Acquired: 6/10/2022 19:00:30 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**.00649**	**.00092**	**.21406**	**.04675**
Stddev	.00074	.00503	.00046	.00070	.00003
%RSD	161.22	77.479	49.656	.32831	.07058
#1	.00098	.01004	.00060	.21456	.04677
#2	-.00006	.00293	.00124	.21357	.04673
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**25.599**	**-.00012**	**.1314**	**.00033**
Stddev	.00011	.003	.00017	.3584	.00017
%RSD	109.58	.01164	142.43	272.7	52.610
#1	.00018	25.597	.00000	.3849	.00021
#2	.00002	25.601	-.00024	-.1220	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**.01645**	**.05582**	**3.7745**	**-.00038**
Stddev	.00017	.00014	.00151	.0063	.00124
%RSD	18.581	.83210	2.7020	.16831	323.50
#1	.00079	.01655	.05689	3.7790	.00049
#2	.00103	.01635	.05476	3.7701	-.00126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4903-J-5-A Acquired: 6/10/2022 19:00:30 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.1734**	**.22643**	**-.00146**	**11.398**	**.00087**
Stddev	.0118	.00011	.00006	.020	.00001
%RSD	.22755	.04662	3.7900	.17346	1.5117
#1	5.1651	.22650	-.00142	11.412	.00086
#2	5.1818	.22635	-.00150	11.384	.00088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00107**	**1.1541**	**-.00149**	**-.00669**
Stddev	.00	.00136	.0036	.00017	.00060
%RSD	.0006	127.45	.30851	11.440	8.9496
#1	25.03	.00203	1.1516	-.00161	-.00711
#2	25.03	.00011	1.1566	-.00137	-.00626
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1371**	**-.00066**	**.09971**	**.9996**	**.00008**
Stddev	.0121	.00047	.00011	.0002	.00004
%RSD	.38482	72.158	.11089	.0250	42.537
#1	3.1456	-.00099	.09978	.9995	.00011
#2	3.1285	-.00032	.09963	.9998	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4903-J-5-A Acquired: 6/10/2022 19:00:30 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00057**	**.00002**	**.00033**	**.9993**
Stddev	.00065	.00007	.00006	.0000
%RSD	114.63	315.01	16.670	.0033
#1	.00103	-.00003	.00037	.9993
#2	.00011	.00007	.00029	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3772.2	3537.1	72421.	5629.3
Stddev	1.6	2.5	65.	3.5
%RSD	.04127	.07007	.08968	.06167
#1	3773.3	3535.3	72466.	5626.9
#2	3771.1	3538.8	72375.	5631.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.723%	98.273%	99.019%	97.794%
Range				

Sample Name: 620-4903-J-6-A Acquired: 6/10/2022 19:04:20 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.01527**	**.00030**	**.03865**	**.01112**
Stddev	.00016	.00189	.00043	.00068	.00000
%RSD	49.154	12.408	141.13	1.7594	.01655
#1	-.00045	.01661	.00000	.03913	.01112
#2	-.00022	.01393	.00061	.03817	.01112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**5.2298**	**-.00017**	**.0377**	**.00012**
Stddev	.00008	.0136	.00007	.1707	.00005
%RSD	108.46	.26067	40.428	452.8	46.323
#1	.00002	5.2394	-.00012	-.0830	.00016
#2	.00014	5.2201	-.00022	.1584	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.01200**	**2.1303**	**.67077**	**-.00034**
Stddev	.00006	.00076	.0034	.02646	.00009
%RSD	15.231	6.3156	.15752	3.9442	25.989
#1	.00035	.01254	2.1327	.65206	-.00028
#2	.00043	.01146	2.1279	.68948	-.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4903-J-6-A Acquired: 6/10/2022 19:04:20 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4642**	**.01258**	**-.00148**	**10.827**	**.00091**
Stddev	.0123	.00001	.00024	.005	.00024
%RSD	.83638	.09705	15.975	.04552	25.997
#1	1.4555	.01257	-.00165	10.831	.00074
#2	1.4729	.01259	-.00131	10.824	.00108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00119**	**.60459**	**-.00199**	**-.00516**
Stddev	.00	.00145	.00511	.00112	.00040
%RSD	.0050	122.51	.84449	56.508	7.6706
#1	25.02	.00016	.60098	-.00119	-.00544
#2	25.02	.00221	.60820	-.00278	-.00488
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14424**	**-.00026**	**.03248**	**1.002**	**.00004**
Stddev	.00155	.00005	.00001	.003	.00013
%RSD	1.0713	20.416	.04156	.2858	323.56
#1	.14533	-.00030	.03247	.9997	-.00005
#2	.14315	-.00023	.03249	1.004	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4903-J-6-A Acquired: 6/10/2022 19:04:20 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00016**	**.00227**	**.9994**
Stddev	.00114	.00027	.00043	.0002
%RSD	1532.5	167.95	19.073	.0215
#1	-.00073	.00035	.00197	.9993
#2	.00088	-.00003	.00258	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3855.5**	**3573.8**	**72916.**	**5694.0**
Stddev	1.2	.6	197.	10.9
%RSD	.03183	.01549	.27011	.19175
#1	3854.6	3574.2	73055.	5701.7
#2	3856.4	3573.5	72777.	5686.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.793%	99.294%	99.697%	98.917%
Range				

Sample Name: 620-4938-J-1-A Acquired: 6/10/2022 19:08:11 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.02272**	**.00110**	**.33348**	**.30758**
Stddev	.00045	.02908	.00114	.00010	.00058
%RSD	83.221	128.00	103.75	.02930	.18892
#1	.00022	.04329	.00190	.33341	.30717
#2	.00086	.00216	.00029	.33355	.30799
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**86.077**	**-.00009**	**.2368**	**-.00013**
Stddev	.00006	.118	.00023	.0046	.00002
%RSD	49.303	.13671	258.98	1.927	17.677
#1	.00017	85.993	-.00025	.2400	-.00011
#2	.00008	86.160	.00007	.2336	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.01117**	**39.254**	**36.335**	**.00358**
Stddev	.00025	.00008	.006	.049	.00143
%RSD	61.261	.75522	.01576	.13377	39.914
#1	.00059	.01111	39.250	36.301	.00460
#2	.00023	.01123	39.259	36.370	.00257
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4938-J-1-A Acquired: 6/10/2022 19:08:11 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.256**	**1.1425**	**-.00202**	**174.87**	**.00279**
Stddev	.006	.0007	.00017	.25	.00016
%RSD	.04526	.06359	8.3458	.14504	5.7367
#1	13.251	1.1420	-.00190	175.05	.00268
#2	13.260	1.1430	-.00214	174.69	.00291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00368**	**26.010**	**-.00111**	**-.00543**
Stddev	.00	.00065	.012	.00033	.00138
%RSD	.0023	17.754	.04733	29.255	25.485
#1	25.02	.00322	26.019	-.00134	-.00445
#2	25.02	.00415	26.002	-.00088	-.00641
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.2903**	**-.00045**	**.44601**	**1.015**	**-.00035**
Stddev	.0088	.00043	.00009	.003	.00016
%RSD	.20502	95.255	.01967	.2835	46.770
#1	4.2965	-.00015	.44607	1.013	-.00023
#2	4.2841	-.00076	.44595	1.017	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4938-J-1-A Acquired: 6/10/2022 19:08:11 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00313**	**.03000**	**1.0000**
Stddev	.00020	.00037	.00017	.0008
%RSD	44.528	11.901	.56904	.0766
#1	.00059	.00339	.02988	.9994
#2	.00031	.00287	.03012	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3375.7**	**3386.5**	**68633.**	**5582.6**
Stddev	.1	.5	46.	1.2
%RSD	.00349	.01604	.06751	.02063
#1	3375.8	3386.2	68666.	5583.4
#2	3375.6	3386.9	68600.	5581.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.872%	94.090%	93.841%	96.982%
Range				

Sample Name: 620-4938-J-2-A Acquired: 6/10/2022 19:12:03 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.01332**	**-.00029**	**.07654**	**.04852**
Stddev	.00034	.00266	.00069	.00026	.00002
%RSD	555.74	19.950	238.39	.34378	.04590
#1	.00018	-.01519	-.00078	.07672	.04850
#2	-.00030	-.01144	.00020	.07635	.04853
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**18.983**	**.00020**	**.1433**	**.00002**
Stddev	.00007	.020	.00001	.1135	.00004
%RSD	191.15	.10640	4.3537	79.22	198.10
#1	-.00001	18.998	.00020	.2235	.00005
#2	.00008	18.969	.00021	.0630	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00320**	**.01520**	**2.2769**	**-.00046**
Stddev	.00020	.00064	.00031	.0006	.00113
%RSD	187.21	20.010	2.0717	.02414	243.40
#1	-.00004	.00366	.01543	2.2765	.00033
#2	.00025	.00275	.01498	2.2773	-.00126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4938-J-2-A Acquired: 6/10/2022 19:12:03 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8784**	**.00637**	**-.00150**	**29.579**	**.00033**
Stddev	.0015	.00001	.00027	.057	.00012
%RSD	.07864	.20817	17.883	.19172	35.695
#1	1.8794	.00638	-.00169	29.620	.00025
#2	1.8773	.00636	-.00131	29.539	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00139**	**7.2919**	**-.00135**	**-.00639**
Stddev	.00	.00048	.0003	.00027	.00004
%RSD	.0008	34.383	.00460	19.808	.66501
#1	25.01	.00173	7.2922	-.00116	-.00642
#2	25.01	.00105	7.2917	-.00154	-.00636
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.7344**	**-.00030**	**.06813**	**1.001**	**-.00053**
Stddev	.0327	.00004	.00005	.003	.00002
%RSD	.87466	12.575	.07428	.2785	4.7423
#1	3.7575	-.00033	.06809	1.003	-.00051
#2	3.7113	-.00027	.06816	.9991	-.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4938-J-2-A Acquired: 6/10/2022 19:12:03 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00067**	**.00006**	**.02146**	**.9995**
Stddev	.00030	.00002	.00130	.0002
%RSD	43.935	28.509	6.0765	.0165
#1	.00047	.00007	.02054	.9996
#2	.00088	.00004	.02239	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3743.7**	**3531.9**	**71922.**	**5622.6**
Stddev	1.1	.2	79.	7.2
%RSD	.03002	.00505	.11014	.12870
#1	3744.5	3532.0	71978.	5617.5
#2	3742.9	3531.7	71866.	5627.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.015%	98.127%	98.337%	97.678%
Range				

Sample Name: 620-4938-J-3-A Acquired: 6/10/2022 19:15:54 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00496**	**.00441**	**4.9480**	**.17558**
Stddev	.00056	.00777	.00034	.0073	.00003
%RSD	1579.1	156.78	7.6998	.14713	.01833
#1	-.00036	-.00054	.00417	4.9531	.17556
#2	.00043	.01045	.00465	4.9428	.17560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**32.088**	**-.00015**	**.2316**	**-.00056**
Stddev	.00000	.004	.00016	.0090	.00022
%RSD	3.3897	.01312	103.03	3.899	39.184
#1	.00013	32.085	-.00027	.2379	-.00072
#2	.00013	32.091	-.00004	.2252	-.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00797**	**83.775**	**4.7020**	**.00453**
Stddev	.00016	.00018	.212	.0151	.00040
%RSD	501.35	2.2647	.25342	.32160	8.7733
#1	.00008	.00785	83.925	4.6913	.00425
#2	-.00015	.00810	83.625	4.7127	.00481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4938-J-3-A Acquired: 6/10/2022 19:15:54 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.8383**	**.20244**	**-.00223**	**152.87**	**.00103**
Stddev	.0032	.00009	.00011	.30	.00008
%RSD	.08196	.04275	4.7887	.19905	7.7487
#1	3.8406	.20238	-.00230	152.65	.00098
#2	3.8361	.20250	-.00215	153.08	.00109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.15**	**.00640**	**29.498**	**-.00011**	**-.01031**
Stddev	.00	.00028	.106	.00246	.00167
%RSD	.0079	4.4211	.35866	2268.5	16.236
#1	25.15	.00620	29.573	.00163	-.00913
#2	25.14	.00660	29.423	-.00184	-.01149
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.698**	**-.00008**	**.36042**	**1.039**	**-.00071**
Stddev	.063	.00115	.00025	.003	.00031
%RSD	.40252	1362.5	.06967	.2999	43.321
#1	15.654	-.00090	.36060	1.037	-.00050
#2	15.743	.00073	.36025	1.041	-.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4938-J-3-A Acquired: 6/10/2022 19:15:54 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00159**	**.00089**	**.00768**	**.9999**
Stddev	.00073	.00008	.00052	.0005
%RSD	46.164	9.5496	6.7650	.0544
#1	.00211	.00083	.00805	.9995
#2	.00107	.00095	.00731	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3453.8**	**3435.5**	**69480.**	**5582.8**
Stddev	1.5	.2	24.	12.3
%RSD	.04295	.00497	.03489	.22025
#1	3454.9	3435.6	69463.	5591.5
#2	3452.8	3435.4	69497.	5574.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.814%	95.450%	94.999%	96.985%
Range				

Sample Name: MB 480-629474/1-A Acquired: 6/10/2022 19:19:41 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00167**	**.01758**	**-.00171**	**.00499**	**.00017**
Stddev	.00028	.01887	.00182	.00042	.00001
%RSD	16.468	107.35	106.72	8.3960	3.1604
#1	.00187	.03093	-.00042	.00529	.00017
#2	.00148	.00424	-.00299	.00469	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.03942**	**.00001**	**.3876**	**-.00011**
Stddev	.00002	.00219	.00001	.0889	.00011
%RSD	37.225	5.5468	109.05	22.95	94.191
#1	.00008	.03787	.00002	.4505	-.00019
#2	.00005	.04096	.00000	.3247	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**-.00007**	**.01756**	**.02888**	**-.00065**
Stddev	.00014	.00017	.00196	.01339	.00059
%RSD	20.583	229.44	11.157	46.362	90.266
#1	.00075	.00005	.01618	.01941	-.00106
#2	.00056	-.00020	.01895	.03835	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629474/1-A Acquired: 6/10/2022 19:19:41 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00450**	**.00026**	**-.00142**	**.05043**	**.00034**
Stddev	.00141	.00002	.00030	.01966	.00017
%RSD	31.395	7.6281	20.955	38.990	48.664
#1	.00350	.00028	-.00163	.06434	.00022
#2	.00550	.00025	-.00121	.03653	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00088**	**.01968**	**-.00104**	**-.00282**
Stddev	.00	.00075	.00212	.00272	.00160
%RSD	.0005	85.718	10.776	260.90	56.587
#1	25.02	.00035	.02118	.00088	-.00395
#2	25.02	.00141	.01818	-.00296	-.00169
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21797**	F **.05233**	**.00004**	**1.008**	**.00003**
Stddev	.00635	.00028	.00002	.002	.00006
%RSD	2.9145	.52726	63.989	.2229	229.27
#1	.21347	.05252	.00002	1.006	.00007
#2	.22246	.05213	.00005	1.009	-.00002
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.01000			
Low Limit		-.01000			

Sample Name: MB 480-629474/1-A Acquired: 6/10/2022 19:19:41 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00023**	**-.00011**	**.00062**	**.9989**
Stddev	.00048	.00033	.00004	.0003
%RSD	208.10	308.18	5.9193	.0312
#1	.00057	-.00034	.00064	.9987
#2	-.00011	.00012	.00059	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4023.8**	**3640.9**	**74864.**	**5716.4**
Stddev	15.3	8.9	215.	16.9
%RSD	.37914	.24565	.28686	.29631
#1	4013.1	3634.6	74712.	5728.4
#2	4034.6	3647.2	75016.	5704.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.976%	101.16%	102.36%	99.307%
Range				

Sample Name: LCSSRM 480-629474/2- Acquired: 6/10/2022 19:23:34 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.25179**	**86.874**	**1.2984**	**.72747**	**2.1407**
Stddev	.00029	.213	.0009	.00087	.0013
%RSD	.11681	.24476	.07174	.11905	.05993
#1	.25200	87.024	1.2978	.72809	2.1416
#2	.25159	86.724	1.2991	.72686	2.1397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4063**	**39.704**	**1.0980**	**.1785**	**1.1718**
Stddev	.0001	.024	.0008	.0017	.0010
%RSD	.01032	.06119	.07439	.9691	.08931
#1	1.4064	39.721	1.0974	.1773	1.1711
#2	1.4062	39.687	1.0985	.1797	1.1726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2226**	**.45382**	**139.70**	**20.645**	**.06508**
Stddev	.0018	.00103	.00	.021	.00153
%RSD	.14389	.22587	.00179	.10205	2.3432
#1	1.2239	.45310	139.70	20.660	.06401
#2	1.2214	.45455	139.70	20.630	.06616
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSSRM 480-629474/2- Acquired: 6/10/2022 19:23:34 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.655**	**2.2879**	**.82568**	**1.4458**	**.50946**
Stddev	.047	.0015	.00067	.0044	.00023
%RSD	.23754	.06554	.08135	.30399	.04431
#1	19.688	2.2890	.82615	1.4489	.50962
#2	19.622	2.2869	.82520	1.4427	.50930
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.56**	**1.2927**	**.69045**	**.89503**	**1.3420**
Stddev	.00	.0015	.00170	.00412	.0111
%RSD	.0136	.11601	.24680	.45978	.82348
#1	27.57	1.2916	.69166	.89794	1.3498
#2	27.56	1.2938	.68925	.89212	1.3342
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.1342**	**.74283**	**.77217**	**1.167**	**4.1757**
Stddev	.0935	.00023	.00074	.007	.0016
%RSD	1.8206	.03094	.09603	.6345	.03923
#1	5.2003	.74299	.77269	1.162	4.1769
#2	5.0681	.74267	.77165	1.173	4.1746
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSSRM 480-629474/2- Acquired: 6/10/2022 19:23:34 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**1.0955**	**.57059**	**1.2999**	**1.032**
Stddev	.0002	.00037	.0032	.001
%RSD	.02221	.06550	.24637	.0468
#1	1.0956	.57085	1.3021	1.031
#2	1.0953	.57033	1.2976	1.032
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3517.6**	**4101.6**	**83508.**	**6578.3**
Stddev	1.4	2.4	268.	20.1
%RSD	.04118	.05881	.32119	.30488
#1	3518.6	4099.9	83319.	6564.2
#2	3516.5	4103.3	83698.	6592.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.397%	113.96%	114.18%	114.28%
Range				

Sample Name: CCV-7024752 Acquired: 6/10/2022 19:27:15 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94811**	**49.133**	**1.0045**	**1.0471**	**1.0464**
Stddev	.00146	.170	.0019	.0014	.0049
%RSD	.15368	.34698	.18456	.13165	.47130
#1	.94708	49.253	1.0032	1.0461	1.0499
#2	.94915	49.012	1.0058	1.0480	1.0429
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0159**	**49.350**	**1.0274**	**1.452**	**1.0294**
Stddev	.0042	.198	.0008	.027	.0003
%RSD	.41229	.40060	.07265	1.871	.02493
#1	1.0189	49.490	1.0268	1.433	1.0292
#2	1.0130	49.211	1.0279	1.471	1.0296
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97077**	**.97645**	**51.218**	**50.922**	**.98140**
Stddev	.00114	.00124	.103	.209	.00311
%RSD	.11714	.12669	.20184	.40994	.31709
#1	.97157	.97732	51.291	51.069	.98360
#2	.96996	.97557	51.145	50.774	.97920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 19:27:15 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.112**	**.99797**	**1.0033**	**50.851**	**1.0067**
Stddev	.067	.00038	.0020	.231	.0004
%RSD	.13967	.03837	.19688	.45348	.03778
#1	48.159	.99824	1.0047	51.014	1.0070
#2	48.064	.99769	1.0019	50.688	1.0064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.06**	**1.0230**	**25.353**	**.97028**	**.98557**
Stddev	.01	.0013	.040	.00045	.00207
%RSD	.0234	.12339	.15791	.04600	.20985
#1	38.05	1.0239	25.324	.96996	.98703
#2	38.06	1.0222	25.381	.97059	.98411
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7552**	**1.0305**	**1.0135**	**1.512**	**.98236**
Stddev	.0144	.0016	.0049	.001	.00179
%RSD	.14797	.15697	.48418	.0486	.18197
#1	9.7654	1.0293	1.0170	1.512	.98363
#2	9.7450	1.0316	1.0100	1.513	.98110
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 19:27:15 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0249**	**.98679**	**1.0503**	**1.511**
Stddev	.0035	.00137	.0023	.003
%RSD	.33926	.13912	.21831	.1937
#1	1.0274	.98776	1.0519	1.513
#2	1.0225	.98582	1.0487	1.509
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3382.3**	**3408.2**	**68500.**	**5430.8**
Stddev	.8	2.5	2.	28.3
%RSD	.02481	.07417	.00335	.52024
#1	3382.9	3410.0	68502.	5410.8
#2	3381.7	3406.4	68498.	5450.8

Sample Name: CCB-7026764 Acquired: 6/10/2022 19:30:55 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00699**	**-.00002**	**.00188**	**.00005**
Stddev	.00024	.01391	.00031	.00044	.00001
%RSD	505.08	199.06	1361.5	23.562	10.320
#1	-.00022	.00285	.00020	.00219	.00005
#2	.00012	-.01682	-.00024	.00157	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00125**	**-.00003**	**-.0037**	**-.00003**
Stddev	.00000	.00030	.00002	.0226	.00015
%RSD	1.5489	23.964	61.650	608.4	455.17
#1	.00012	.00103	-.00001	.0123	.00007
#2	.00012	.00146	-.00004	-.0197	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.00001**	**.00542**	**-.00269**	**.00115**
Stddev	.00027	.00037	.00202	.01557	.00022
%RSD	101.19	4176.5	37.345	577.71	18.866
#1	.00008	-.00025	.00685	-.01370	.00131
#2	.00047	.00027	.00399	.00831	.00100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 19:30:55 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**.00011**	**.00188**	**.00153**	**.00008**
Stddev	.00147	.00001	.00020	.00062	.00005
%RSD	238.38	8.4534	10.416	40.265	62.976
#1	-.00042	.00010	.00174	.00110	.00012
#2	.00165	.00012	.00202	.00197	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00059**	**.00262**	**-.00198**	**.00262**
Stddev	.00	.00013	.00017	.00092	.00006
%RSD	.0054	21.545	6.5686	46.630	2.3824
#1	25.00	.00050	.00274	-.00132	.00266
#2	25.00	.00068	.00250	-.00263	.00257
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.00050**	**-.00005**	**1.002**	**.00027**
Stddev	.00612	.00003	.00004	.008	.00005
%RSD	1648.4	5.7625	71.983	.8031	18.448
#1	.00396	.00052	-.00007	1.008	.00030
#2	-.00470	.00048	-.00002	.9964	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 19:30:55 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00091**	**.00006**	**-.00045**	**.9995**
Stddev	.00116	.00019	.00041	.0004
%RSD	127.73	308.95	90.484	.0413
#1	.00172	-.00007	-.00016	.9998
#2	.00009	.00020	-.00074	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4004.3**	**3638.4**	**74289.**	**5636.2**
Stddev	3.6	2.6	8.	36.1
%RSD	.08920	.07050	.01081	.64034
#1	4001.8	3636.6	74284.	5610.7
#2	4006.8	3640.2	74295.	5661.8

Sample Name: CCVL-7028546 Acquired: 6/10/2022 19:34:50 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00611**	**.17542**	**.01364**	**.02042**	**.00214**
Stddev	.00035	.01507	.00155	.00032	.00001
%RSD	5.7873	8.5890	11.363	1.5676	.52868
#1	.00586	.16477	.01254	.02019	.00214
#2	.00636	.18607	.01473	.02064	.00215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00215**	**.48642**	**.00186**	**.2856**	**.00388**
Stddev	.00007	.00353	.00005	.0984	.00011
%RSD	3.4057	.72486	2.5750	34.47	2.8823
#1	.00209	.48891	.00190	.2160	.00396
#2	.00220	.48393	.00183	.3552	.00380
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00431**	**.00967**	**.05211**	**.50394**	**.02742**
Stddev	.00003	.00056	.00094	.03460	.00080
%RSD	.62650	5.7774	1.7955	6.8656	2.9120
#1	.00429	.00927	.05145	.47948	.02798
#2	.00433	.01006	.05277	.52841	.02685
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/10/2022 19:34:50 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18431**	**.00335**	**.00914**	**.95826**	**.00944**
Stddev	.00307	.00004	.00002	.01171	.00022
%RSD	1.6637	1.2673	.25500	1.2216	2.2985
#1	.18648	.00332	.00916	.96654	.00959
#2	.18214	.00338	.00913	.94999	.00928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01028**	**.19189**	**.01551**	**.02116**
Stddev	.00	.00049	.00208	.00059	.00156
%RSD	.0009	4.7501	1.0851	3.8113	7.3779
#1	25.00	.01063	.19042	.01509	.02226
#2	25.00	.00994	.19337	.01593	.02006
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44030**	**.00853**	**.00492**	F **1.000**	**.00400**
Stddev	.00018	.00014	.00009	.003	.00021
%RSD	.04071	1.6784	1.8422	.3139	5.3693
#1	.44018	.00843	.00485	1.003	.00415
#2	.44043	.00863	.00498	.9982	.00385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/10/2022 19:34:50 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02139**	**.00452**	**.00851**	F **.9993**
Stddev	.00034	.00024	.00012	.0011
%RSD	1.5848	5.2997	1.3667	.1056
#1	.02115	.00435	.00859	.9985
#2	.02163	.00469	.00843	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3937.5**	**3594.3**	**73315.**	**5567.2**
Stddev	2.4	4.8	81.	6.7
%RSD	.06194	.13426	.11063	.11956
#1	3939.2	3590.9	73258.	5571.9
#2	3935.7	3597.7	73372.	5562.5

Sample Name: LCDSRM 480-629474/3- Acquired: 6/10/2022 19:38:42 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.26330**	**89.614**	**1.3490**	**.77605**	**2.2073**
Stddev	.00057	.090	.0060	.00082	.0054
%RSD	.21601	.10083	.44104	.10605	.24616
#1	.26370	89.678	1.3532	.77663	2.2112
#2	.26289	89.550	1.3447	.77547	2.2035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4898**	**40.597**	**1.1662**	**.2441**	**1.2491**
Stddev	.0035	.099	.0002	.0977	.0008
%RSD	.23389	.24398	.01698	40.02	.06574
#1	1.4922	40.667	1.1663	.1750	1.2485
#2	1.4873	40.527	1.1660	.3132	1.2497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.3100**	**.47538**	**143.94**	**21.368**	**.06528**
Stddev	.0014	.00121	.74	.065	.00069
%RSD	.11047	.25541	.51329	.30433	1.0618
#1	1.3090	.47624	144.47	21.414	.06577
#2	1.3111	.47452	143.42	21.322	.06479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCDSRM 480-629474/3- Acquired: 6/10/2022 19:38:42 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.218**	**2.3663**	**.87164**	**1.4708**	**.54730**
Stddev	.000	.0031	.00015	.0130	.00037
%RSD	.00091	.13120	.01688	.88322	.06733
#1	20.218	2.3685	.87174	1.4616	.54756
#2	20.218	2.3642	.87153	1.4800	.54704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.51**	**1.3071**	**.71752**	**.94514**	**1.4123**
Stddev	.00	.0012	.00427	.00254	.0070
%RSD	.0124	.09057	.59578	.26837	.49267
#1	27.52	1.3079	.71450	.94693	1.4172
#2	27.51	1.3063	.72055	.94334	1.4074
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.0153**	**.76427**	**.80912**	**1.164**	**4.2976**
Stddev	.0627	.00385	.00249	.003	.0022
%RSD	1.2507	.50359	.30717	.2554	.05224
#1	4.9709	.76155	.81088	1.166	4.2992
#2	5.0596	.76700	.80736	1.162	4.2960
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCDSRM 480-629474/3- Acquired: 6/10/2022 19:38:42 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**1.1269**	**.60508**	**1.3381**	**1.034**
Stddev	.0012	.00034	.0002	.001
%RSD	.10598	.05619	.01314	.0563
#1	1.1260	.60532	1.3380	1.034
#2	1.1277	.60484	1.3382	1.034
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3460.6**	**4001.4**	**81292.**	**6432.0**
Stddev	4.7	9.5	29.	24.0
%RSD	.13514	.23763	.03520	.37241
#1	3457.3	3994.7	81272.	6415.0
#2	3464.0	4008.1	81313.	6448.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.983%	111.17%	111.15%	111.74%
Range				

Sample Name: 480-198096-F-5-A Acquired: 6/10/2022 19:42:21 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**73.026**	**.04741**	**.01359**	**.44485**
Stddev	.00081	.231	.00292	.00012	.00012
%RSD	105.29	.31581	6.1606	.85283	.02668
#1	-.00135	73.189	.04947	.01367	.44477
#2	-.00020	72.863	.04534	.01350	.44494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00319**	**41.820**	**.00168**	**.1555**	**.09537**
Stddev	.00005	.148	.00017	.1280	.00016
%RSD	1.4927	.35482	9.8435	82.29	.16607
#1	.00315	41.924	.00157	.0650	.09526
#2	.00322	41.715	.00180	.2460	.09548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18112**	**.28013**	**165.47**	**16.111**	**.15303**
Stddev	.00006	.00152	.74	.033	.00235
%RSD	.03315	.54167	.44874	.20625	1.5384
#1	.18116	.27905	165.99	16.135	.15469
#2	.18108	.28120	164.94	16.088	.15136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198096-F-5-A Acquired: 6/10/2022 19:42:21 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.907**	**1.9083**	**.01203**	**5.1960**	**.16336**
Stddev	.051	.0046	.00033	.0184	.00041
%RSD	.13510	.24382	2.7569	.35426	.25308
#1	37.871	1.9050	.01180	5.2091	.16307
#2	37.943	1.9116	.01227	5.1830	.16365
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.66**	**.37335**	**10.068**	**.00768**	**-.00078**
Stddev	.00	.00086	.007	.00334	.00190
%RSD	.0038	.23168	.06808	43.457	242.84
#1	27.66	.37274	10.072	.01004	-.00213
#2	27.66	.37397	10.063	.00532	.00056
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.7406**	**.06211**	**.18781**	**1.102**	**9.4049**
Stddev	.0169	.00048	.00079	.002	.0322
%RSD	.35708	.77286	.42217	.1968	.34261
#1	4.7525	.06245	.18837	1.101	9.4276
#2	4.7286	.06177	.18725	1.104	9.3821
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198096-F-5-A Acquired: 6/10/2022 19:42:21 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00607**	**.46024**	**.58247**	**1.028**
Stddev	.00098	.00078	.00236	.001
%RSD	16.142	.16870	.40448	.0524
#1	-.00677	.45969	.58080	1.027
#2	-.00538	.46079	.58414	1.028
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3497.6**	**3834.9**	**78041.**	**6180.2**
Stddev	5.5	7.0	55.	13.5
%RSD	.15824	.18166	.07033	.21903
#1	3493.7	3830.0	78002.	6170.6
#2	3501.6	3839.8	78080.	6189.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.902%	106.55%	106.70%	107.36%
Range				

Sample Name: 480-198096-D-6-A Acquired: 6/10/2022 19:46:14 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**57.453**	**.03684**	**.01970**	**.36529**
Stddev	.00016	.041	.00092	.00044	.00083
%RSD	54.245	.07154	2.5071	2.2505	.22704
#1	-.00018	57.482	.03619	.01939	.36588
#2	-.00041	57.424	.03749	.02002	.36471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00273**	**24.221**	**.00065**	**.2346**	**.03009**
Stddev	.00004	.010	.00017	.0148	.00015
%RSD	1.4039	.03967	25.819	6.307	.49292
#1	.00270	24.214	.00053	.2450	.03019
#2	.00275	24.228	.00077	.2241	.02998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11991**	**.09799**	**83.446**	**5.7294**	**.07977**
Stddev	.00050	.00029	.182	.0031	.00202
%RSD	.41967	.29092	.21780	.05362	2.5361
#1	.12026	.09819	83.318	5.7316	.07834
#2	.11955	.09778	83.575	5.7272	.08120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198096-D-6-A Acquired: 6/10/2022 19:46:14 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.929**	**1.0934**	**.00157**	**4.7230**	**.05483**
Stddev	.066	.0035	.00022	.0145	.00018
%RSD	.41482	.32182	13.941	.30674	.32919
#1	15.975	1.0959	.00142	4.7332	.05470
#2	15.882	1.0909	.00173	4.7127	.05495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.45**	**.31087**	**2.9095**	**.00229**	**-.00527**
Stddev	.00	.00021	.0019	.00170	.00032
%RSD	.0115	.06635	.06576	74.322	5.9939
#1	27.45	.31073	2.9109	.00349	-.00505
#2	27.46	.31102	2.9081	.00109	-.00549
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.9518**	**.05461**	**.11641**	**1.052**	**4.5919**
Stddev	.0466	.00001	.00036	.001	.0161
%RSD	.78330	.02320	.31326	.1092	.35111
#1	5.9848	.05462	.11667	1.053	4.6033
#2	5.9188	.05460	.11615	1.052	4.5805
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198096-D-6-A Acquired: 6/10/2022 19:46:14 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00278**	**.17078**	**.26885**	**1.005**
Stddev	.00111	.00049	.00098	.001
%RSD	39.740	.28967	.36586	.0555
#1	-.00200	.17113	.26955	1.004
#2	-.00357	.17043	.26816	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3656.3**	**3771.1**	**76247.**	**6011.6**
Stddev	3.5	3.0	236.	2.0
%RSD	.09502	.07970	.30935	.03249
#1	3653.8	3773.2	76080.	6010.2
#2	3658.8	3769.0	76414.	6013.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.844%	104.77%	104.25%	104.44%
Range				

Sample Name: 480-198096-D-6-Asd@5 Acquired: 6/10/2022 19:50:02 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**12.474**	**.00997**	**.00459**	**.07928**
Stddev	.00001	.064	.00090	.00007	.00001
%RSD	1.8056	.51085	9.0334	1.4227	.00862
#1	.00035	12.520	.01060	.00463	.07928
#2	.00036	12.429	.00933	.00454	.07927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**5.3184**	**.00022**	**.1926**	**.00597**
Stddev	.00001	.0260	.00012	.1180	.00004
%RSD	2.2389	.48885	54.612	61.24	.59413
#1	.00062	5.3368	.00031	.2760	.00594
#2	.00064	5.3000	.00014	.1092	.00599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02636**	**.02039**	**18.102**	**1.2190**	**.01596**
Stddev	.00022	.00026	.083	.0237	.00039
%RSD	.84490	1.2593	.46057	1.9461	2.4729
#1	.02652	.02020	18.161	1.2358	.01624
#2	.02620	.02057	18.043	1.2023	.01568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198096-D-6-Asd@5 Acquired: 6/10/2022 19:50:02 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.5464**	**.24034**	**-.00067**	**.98409**	**.01136**
Stddev	.0025	.00006	.00006	.00532	.00007
%RSD	.07093	.02443	8.4404	.54032	.57966
#1	3.5446	.24030	-.00071	.98784	.01132
#2	3.5481	.24038	-.00063	.98033	.01141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.53**	**.06453**	**.62375**	**-.00011**	**-.00252**
Stddev	.00	.00047	.00568	.00039	.00206
%RSD	.0025	.72759	.91027	360.72	81.960
#1	25.53	.06420	.62776	-.00038	-.00106
#2	25.53	.06486	.61973	.00017	-.00397
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2486**	**.01098**	**.02491**	**1.016**	**.98078**
Stddev	.0227	.00035	.00016	.006	.00125
%RSD	1.8223	3.2233	.65187	.5588	.12705
#1	1.2325	.01123	.02503	1.020	.97990
#2	1.2647	.01073	.02480	1.012	.98166
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198096-D-6-Asd@5 Acquired: 6/10/2022 19:50:02 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.03687**	**.05699**	**1.000**
Stddev	.00096	.00024	.00056	.000
%RSD	372.85	.65341	.98176	.0170
#1	-.00093	.03704	.05738	1.000
#2	.00042	.03670	.05659	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3885.1**	**3659.4**	**74334.**	**5754.1**
Stddev	1.0	5.9	31.	21.1
%RSD	.02573	.16147	.04221	.36684
#1	3884.4	3655.3	74311.	5739.1
#2	3885.8	3663.6	74356.	5769.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.528%	101.67%	101.64%	99.961%
Range				

Sample Name: 480-198096-D-6-APDS Acquired: 6/10/2022 19:53:51 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08712**	**72.475**	**.41390**	**.38990**	**.72166**
Stddev	.00072	.117	.00356	.00222	.00081
%RSD	.82791	.16106	.86074	.56861	.11178
#1	.08763	72.558	.41642	.39147	.72223
#2	.08661	72.393	.41138	.38833	.72109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38866**	**41.067**	**.37602**	**.1034**	**.43907**
Stddev	.00037	.069	.00060	.2159	.00075
%RSD	.09573	.16745	.15968	208.7	.17014
#1	.38893	41.116	.37644	.2560	.43960
#2	.38840	41.019	.37559	-.0492	.43854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48228**	**.47444**	**96.373**	**24.390**	**.44485**
Stddev	.00008	.00009	.146	.004	.00102
%RSD	.01663	.01911	.15109	.01845	.23022
#1	.48234	.47450	96.476	24.393	.44413
#2	.48223	.47438	96.270	24.387	.44557
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198096-D-6-APDS Acquired: 6/10/2022 19:53:51 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.380**	**1.4044**	**.38699**	**23.174**	**.44492**
Stddev	.000	.0005	.00142	.022	.00047
%RSD	.00051	.03666	.36661	.09549	.10572
#1	33.380	1.4048	.38799	23.190	.44525
#2	33.380	1.4041	.38599	23.158	.44458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.35**	**.69704**	**21.021**	**.38253**	**.36148**
Stddev	.01	.00187	.062	.00416	.00426
%RSD	.0258	.26892	.29431	1.0867	1.1780
#1	27.35	.69571	21.065	.38547	.36449
#2	27.34	.69836	20.977	.37959	.35847
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.497**	**.45736**	**.49124**	**1.058**	**4.7102**
Stddev	.010	.00094	.00133	.006	.0060
%RSD	.04326	.20594	.27084	.5820	.12722
#1	23.505	.45802	.49218	1.062	4.7145
#2	23.490	.45669	.49030	1.053	4.7060
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198096-D-6-APDS Acquired: 6/10/2022 19:53:51 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.40870**	**.52882**	**.62682**	**1.004**
Stddev	.00014	.00117	.00232	.000
%RSD	.03512	.22089	.37062	.0047
#1	.40880	.52799	.62517	1.004
#2	.40859	.52964	.62846	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3508.3**	**3690.4**	**74753.**	**5975.0**
Stddev	.9	1.7	74.	22.8
%RSD	.02653	.04689	.09836	.38135
#1	3507.6	3689.2	74701.	5958.9
#2	3508.9	3691.6	74805.	5991.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.167%	102.53%	102.21%	103.80%
Range				

Sample Name: 480-198096-D-6-B MS Acquired: 6/10/2022 19:57:33 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07549**	**109.78**	**.37224**	**.33987**	**1.0676**
Stddev	.00036	.27	.00106	.00009	.0047
%RSD	.47285	.24214	.28372	.02623	.44242
#1	.07574	109.97	.37150	.33994	1.0709
#2	.07524	109.59	.37299	.33981	1.0643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.32995**	**60.080**	**.33012**	**.1370**	**.43915**
Stddev	.00146	.101	.00061	.0854	.00109
%RSD	.44128	.16866	.18511	62.32	.24914
#1	.33098	60.152	.33055	.1974	.43992
#2	.32892	60.008	.32969	.0766	.43837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47778**	**.49759**	**153.66**	**31.371**	**.42022**
Stddev	.00055	.00187	.35	.141	.00169
%RSD	.11462	.37547	.23058	.45029	.40244
#1	.47739	.49891	153.91	31.470	.42142
#2	.47817	.49627	153.41	31.271	.41903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198096-D-6-B MS Acquired: 6/10/2022 19:57:33 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.869**	**2.3331**	**.32938**	**21.921**	**.47994**
Stddev	.024	.0015	.00104	.068	.00002
%RSD	.04568	.06636	.31516	.31124	.00379
#1	52.886	2.3342	.33011	21.969	.47996
#2	52.851	2.3320	.32864	21.872	.47993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.13**	**.78310**	**20.133**	**.25859**	**.30727**
Stddev	.01	.00068	.050	.00325	.00327
%RSD	.0188	.08723	.24966	1.2576	1.0648
#1	28.14	.78262	20.168	.25629	.30959
#2	28.13	.78359	20.097	.26089	.30496
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.368**	**.47944**	**.54046**	**1.083**	**11.748**
Stddev	.032	.00039	.00193	.004	.011
%RSD	.20862	.08054	.35702	.3305	.09153
#1	15.391	.47971	.54182	1.081	11.756
#2	15.346	.47917	.53909	1.086	11.740
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198096-D-6-B MS Acquired: 6/10/2022 19:57:33 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.35149**	**.69615**	**.94927**	**1.034**
Stddev	.00210	.00046	.00102	.000
%RSD	.59746	.06563	.10795	.0154
#1	.35298	.69647	.95000	1.034
#2	.35001	.69583	.94855	1.034
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3389.6**	**3744.6**	**75456.**	**6129.8**
Stddev	5.2	8.8	116.	7.0
%RSD	.15419	.23555	.15373	.11351
#1	3385.9	3738.3	75374.	6124.9
#2	3393.3	3750.8	75538.	6134.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.218%	104.04%	103.17%	106.49%
Range				

Sample Name: 480-198096-D-6-C MSD Acquired: 6/10/2022 20:01:21 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08046**	**105.19**	**.39168**	**.36304**	**.82827**
Stddev	.00019	.08	.00065	.00011	.00118
%RSD	.23642	.07554	.16652	.03062	.14245
#1	.08032	105.25	.39214	.36296	.82910
#2	.08059	105.14	.39122	.36312	.82743
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.36246**	**69.036**	**.35108**	**.0155**	**.43103**
Stddev	.00082	.105	.00016	.0670	.00065
%RSD	.22681	.15251	.04566	431.2	.15099
#1	.36304	69.110	.35096	.0629	.43057
#2	.36188	68.961	.35119	-.0318	.43149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47775**	**.45580**	**116.82**	**31.021**	**.42172**
Stddev	.00056	.00083	.24	.085	.00167
%RSD	.11788	.18139	.20623	.27274	.39662
#1	.47735	.45638	116.99	31.081	.42054
#2	.47814	.45521	116.65	30.961	.42290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198096-D-6-C MSD Acquired: 6/10/2022 20:01:21 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**41.833**	**2.1455**	**.36164**	**23.605**	**.43676**
Stddev	.030	.0012	.00001	.042	.00036
%RSD	.07081	.05343	.00324	.17923	.08312
#1	41.854	2.1463	.36165	23.634	.43702
#2	41.812	2.1447	.36163	23.575	.43650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.19**	**.69465**	**19.841**	**.29758**	**.33876**
Stddev	.01	.00076	.006	.00078	.00090
%RSD	.0197	.10906	.02924	.26110	.26508
#1	28.19	.69411	19.837	.29813	.33812
#2	28.20	.69518	19.845	.29703	.33939
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.812**	**.51604**	**.60466**	**1.070**	**7.9790**
Stddev	.018	.00029	.00110	.002	.0055
%RSD	.11151	.05596	.18139	.2009	.06858
#1	15.825	.51624	.60544	1.071	7.9829
#2	15.800	.51584	.60389	1.068	7.9752
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198096-D-6-C MSD Acquired: 6/10/2022 20:01:21 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.37391**	**.55213**	**.64981**	**1.026**
Stddev	.00024	.00061	.00162	.000
%RSD	.06430	.11062	.24857	.0437
#1	.37374	.55256	.65095	1.026
#2	.37408	.55170	.64867	1.026
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3427.8**	**3713.1**	**74586.**	**6043.8**
Stddev	1.1	3.2	181.	20.7
%RSD	.03299	.08637	.24308	.34277
#1	3427.0	3710.8	74458.	6029.2
#2	3428.6	3715.4	74714.	6058.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.166%	103.16%	101.98%	105.00%
Range				

Sample Name: 480-198138-E-1-B Acquired: 6/10/2022 20:05:04 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00146**	**30.794**	**.03714**	**.12502**	**.96159**
Stddev	.00029	.081	.00237	.00113	.00086
%RSD	19.607	.26175	6.3910	.90091	.08957
#1	.00167	30.737	.03546	.12582	.96220
#2	.00126	30.851	.03882	.12422	.96098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00255**	**125.33**	**.00899**	**.2571**	**.02738**
Stddev	.00010	.15	.00002	.1023	.00017
%RSD	4.0989	.11722	.25689	39.77	.60544
#1	.00262	125.44	.00900	.3294	.02726
#2	.00247	125.23	.00897	.1848	.02750
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14746**	**.41593**	**138.46**	**5.8204**	**.04762**
Stddev	.00046	.00028	.23	.0202	.00033
%RSD	.31370	.06726	.16851	.34776	.69975
#1	.14779	.41573	138.62	5.8348	.04785
#2	.14713	.41613	138.29	5.8061	.04738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198138-E-1-B Acquired: 6/10/2022 20:05:04 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.711**	**1.3711**	**.00669**	**1.3248**	**.08730**
Stddev	.049	.0032	.00007	.0092	.00035
%RSD	.27613	.23374	1.0470	.69642	.39545
#1	17.677	1.3688	.00664	1.3313	.08706
#2	17.746	1.3733	.00674	1.3183	.08755
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.46**	**2.8059**	**6.5387**	**.02596**	**-.00061**
Stddev	.00	.0057	.0063	.00387	.00138
%RSD	.0082	.20218	.09665	14.909	226.08
#1	26.46	2.8099	6.5432	.02869	.00036
#2	26.46	2.8019	6.5343	.02322	-.00158
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.1198**	**.07627**	**.37664**	**1.070**	**2.0461**
Stddev	.0179	.00088	.00077	.002	.0051
%RSD	.43478	1.1541	.20349	.1701	.25095
#1	4.1325	.07689	.37718	1.071	2.0424
#2	4.1071	.07565	.37610	1.069	2.0497
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198138-E-1-B Acquired: 6/10/2022 20:05:04 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00228**	**.19323**	**2.1498**	**1.023**
Stddev	.00128	.00023	.0123	.000
%RSD	55.921	.11768	.57093	.0145
#1	-.00318	.19339	2.1411	1.023
#2	-.00138	.19307	2.1585	1.023
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3527.1**	**3575.3**	**72740.**	**5823.5**
Stddev	9.3	3.1	100.	9.1
%RSD	.26441	.08682	.13720	.15711
#1	3520.5	3573.1	72811.	5829.9
#2	3533.7	3577.5	72669.	5817.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.633%	99.333%	99.456%	101.17%
Range				

Sample Name: 480-198138-E-2-B Acquired: 6/10/2022 20:08:52 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00070**	**62.508**	**.05953**	**.02771**	**.25144**
Stddev	.00061	.014	.00053	.00027	.00077
%RSD	86.894	.02193	.88509	.97688	.30742
#1	-.00027	62.498	.05990	.02752	.25198
#2	-.00114	62.517	.05915	.02790	.25089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00278**	**20.649**	**.00515**	**.0840**	**.03690**
Stddev	.00002	.015	.00003	.1155	.00012
%RSD	.84289	.07433	.58339	137.4	.31868
#1	.00276	20.660	.00517	.1657	.03681
#2	.00280	20.638	.00513	.0024	.03698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.79001**	**.23859**	**117.93**	**5.0563**	**.08793**
Stddev	.00120	.00111	.06	.0019	.00001
%RSD	.15137	.46540	.05215	.03734	.01037
#1	.78917	.23937	117.88	5.0576	.08792
#2	.79086	.23780	117.97	5.0550	.08793
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198138-E-2-B Acquired: 6/10/2022 20:08:52 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.588**	**1.1293**	**.00513**	**.76934**	**.07997**
Stddev	.027	.0011	.00021	.00684	.00048
%RSD	.12961	.09515	4.0731	.88948	.60125
#1	20.607	1.1301	.00498	.76450	.07963
#2	20.569	1.1286	.00528	.77418	.08031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.33**	**.72420**	**2.7106**	**.00664**	**-.00437**
Stddev	.00	.00087	.0088	.00010	.00435
%RSD	.0005	.12047	.32358	1.5199	99.608
#1	27.33	.72482	2.7168	.00672	-.00745
#2	27.33	.72358	2.7044	.00657	-.00129
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2782**	**.06272**	**.10392**	**1.075**	**5.8635**
Stddev	.0565	.00009	.00015	.001	.0074
%RSD	1.0709	.15121	.14440	.1078	.12656
#1	5.3182	.06279	.10382	1.076	5.8687
#2	5.2382	.06266	.10403	1.074	5.8582
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198138-E-2-B Acquired: 6/10/2022 20:08:52 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00373**	**.13536**	**1.0964**	**1.010**
Stddev	.00079	.00039	.0002	.000
%RSD	21.073	.28907	.01619	.0086
#1	-.00317	.13563	1.0963	1.010
#2	-.00429	.13508	1.0965	1.010
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3651.6**	**3809.0**	**77023.**	**6129.3**
Stddev	3.4	5.0	186.	2.3
%RSD	.09287	.13127	.24138	.03832
#1	3649.2	3805.5	76892.	6127.7
#2	3654.0	3812.6	77155.	6131.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.727%	105.83%	105.31%	106.48%
Range				

Sample Name: CCV-7024752 Acquired: 6/10/2022 20:12:41 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96517**	**49.870**	**1.0155**	**1.0503**	**1.0413**
Stddev	.00174	.039	.0059	.0016	.0026
%RSD	.18053	.07721	.58434	.15191	.25046
#1	.96394	49.898	1.0197	1.0492	1.0431
#2	.96641	49.843	1.0113	1.0515	1.0394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0197**	**50.148**	**1.0343**	**1.260**	**1.0342**
Stddev	.0013	.096	.0003	.158	.0001
%RSD	.12336	.19140	.02378	12.52	.01235
#1	1.0206	50.215	1.0345	1.148	1.0343
#2	1.0189	50.080	1.0341	1.372	1.0341
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98933**	**.98980**	**51.732**	**51.248**	**.99492**
Stddev	.00284	.00014	.138	.133	.00012
%RSD	.28688	.01379	.26630	.25966	.01246
#1	.99134	.98970	51.635	51.342	.99501
#2	.98733	.98990	51.830	51.154	.99483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 20:12:41 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.066**	**1.0101**	**1.0129**	**51.151**	**1.0180**
Stddev	.054	.0018	.0034	.104	.0010
%RSD	.11027	.17745	.33910	.20318	.09758
#1	49.028	1.0089	1.0153	51.224	1.0173
#2	49.105	1.0114	1.0105	51.077	1.0187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.15**	**1.0306**	**25.619**	**.98282**	**.99720**
Stddev	.00	.0007	.017	.00140	.01000
%RSD	.0045	.06487	.06688	.14273	1.0033
#1	38.15	1.0301	25.607	.98381	1.0043
#2	38.15	1.0311	25.631	.98183	.99013
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9020**	**1.0357**	**1.0169**	**1.521**	**.99745**
Stddev	.0274	.0045	.0005	.002	.00109
%RSD	.27725	.43215	.05142	.1189	.10936
#1	9.9214	1.0388	1.0173	1.523	.99668
#2	9.8826	1.0325	1.0165	1.520	.99822
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 20:12:41 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0346**	**1.0007**	**1.0616**	**1.514**
Stddev	.0017	.0007	.0009	.002
%RSD	.16812	.06818	.08690	.1534
#1	1.0358	1.0012	1.0609	1.515
#2	1.0334	1.0002	1.0622	1.512
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3373.3**	**3390.0**	**67845.**	**5384.7**
Stddev	4.3	1.8	144.	22.6
%RSD	.12872	.05335	.21220	.42033
#1	3376.3	3391.3	67947.	5368.7
#2	3370.2	3388.8	67743.	5400.7

Sample Name: CCB-7026764 Acquired: 6/10/2022 20:16:21 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**-.02391**	**.00055**	**.00076**	**.00003**
Stddev	.00058	.02597	.00114	.00011	.00000
%RSD	187.92	108.64	206.31	14.000	12.625
#1	.00072	-.04227	-.00025	.00068	.00003
#2	-.00010	-.00554	.00136	.00083	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00010**	**.00007**	**.1577**	**-.00000**
Stddev	.00005	.00213	.00003	.1934	.00016
%RSD	45.103	2212.6	48.164	122.6	5824.9
#1	.00015	-.00141	.00009	.2944	.00011
#2	.00008	.00161	.00005	.0210	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**-.00031**	**.00646**	**.02620**	**-.00001**
Stddev	.00020	.00009	.00078	.03823	.00196
%RSD	83.519	29.584	12.140	145.90	17945.
#1	.00037	-.00025	.00590	-.00083	.00138
#2	.00010	-.00038	.00701	.05323	-.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 20:16:21 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00160**	**.00010**	**.00159**	**-.00788**	**.00018**
Stddev	.00335	.00009	.00039	.01001	.00012
%RSD	210.21	89.943	24.549	127.06	69.261
#1	.00397	.00016	.00132	-.01496	.00026
#2	-.00078	.00004	.00187	-.00080	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00091**	**.00215**	**-.00037**	**.00127**
Stddev	.00	.00023	.00058	.00022	.00138
%RSD	.0007	24.861	27.170	59.257	109.06
#1	25.00	.00107	.00174	-.00021	.00029
#2	25.00	.00075	.00256	-.00052	.00225
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01055**	**.00022**	**-.00007**	**1.004**	**.00050**
Stddev	.00920	.00041	.00010	.001	.00013
%RSD	87.243	181.27	144.75	.1180	26.509
#1	-.00404	-.00006	-.00014	1.003	.00041
#2	-.01706	.00051	.00000	1.004	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 20:16:21 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00041**	**.00012**	**-.00089**	**.9993**
Stddev	.00030	.00005	.00095	.0006
%RSD	72.400	44.325	107.40	.0594
#1	.00062	.00016	-.00156	.9997
#2	.00020	.00008	-.00021	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4042.6**	**3678.1**	**75116.**	**5662.1**
Stddev	.5	.5	35.	8.4
%RSD	.01293	.01250	.04621	.14816
#1	4042.3	3678.4	75091.	5668.0
#2	4043.0	3677.8	75140.	5656.1

Sample Name: CCVL-7028546 Acquired: 6/10/2022 20:20:16 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00521**	**.16671**	**.01437**	**.01908**	**.00212**
Stddev	.00071	.00316	.00112	.00070	.00001
%RSD	13.616	1.8967	7.8194	3.6621	.52880
#1	.00571	.16895	.01516	.01957	.00212
#2	.00471	.16447	.01358	.01859	.00211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00204**	**.47407**	**.00198**	**.1022**	**.00378**
Stddev	.00005	.00455	.00003	.1065	.00001
%RSD	2.4942	.95887	1.3943	104.2	.15141
#1	.00200	.47729	.00196	.1776	.00378
#2	.00208	.47086	.00200	.0269	.00378
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00383**	**.00944**	**.04891**	**.47469**	**.02792**
Stddev	.00012	.00071	.00019	.02449	.00228
%RSD	3.0104	7.5301	.39506	5.1600	8.1558
#1	.00391	.00994	.04904	.49201	.02953
#2	.00375	.00893	.04877	.45737	.02631
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/10/2022 20:20:16 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17795**	**.00319**	**.00882**	**.93592**	**.00929**
Stddev	.00306	.00001	.00012	.00876	.00008
%RSD	1.7215	.33432	1.3721	.93587	.88464
#1	.18012	.00320	.00873	.92972	.00934
#2	.17579	.00318	.00890	.94211	.00923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00985**	**.18765**	**.01433**	**.01789**
Stddev	.00	.00066	.00105	.00050	.00163
%RSD	.0023	6.6907	.56092	3.4785	9.0999
#1	25.00	.01032	.18840	.01398	.01904
#2	25.00	.00939	.18691	.01468	.01673
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.43335**	**.00837**	**.00484**	F **.9985**	**.00402**
Stddev	.00654	.00011	.00003	.0012	.00010
%RSD	1.5091	1.3074	.55513	.1208	2.4381
#1	.42873	.00829	.00482	.9976	.00395
#2	.43798	.00845	.00486	.9993	.00409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/10/2022 20:20:16 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01951**	**.00444**	**.00777**	F **.9999**
Stddev	.00156	.00019	.00039	.0004
%RSD	7.9779	4.2016	5.0714	.0409
#1	.01841	.00431	.00749	1.000
#2	.02061	.00457	.00805	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4019.6**	**3662.3**	**74460.**	**5626.2**
Stddev	4.6	.6	100.	9.6
%RSD	.11471	.01708	.13424	.17070
#1	4016.4	3661.8	74389.	5633.0
#2	4022.9	3662.7	74531.	5619.5

Sample Name: 480-198138-F-9-A Acquired: 6/10/2022 20:24:08 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00139**	**120.98**	**.04024**	**.01506**	**.42962**
Stddev	.00020	.23	.00000	.00039	.00124
%RSD	14.366	.19324	.00735	2.6198	.28894
#1	-.00153	120.82	.04024	.01534	.42874
#2	-.00125	121.15	.04025	.01478	.43049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00430**	**84.045**	**.00178**	**.0979**	**.09615**
Stddev	.00009	.103	.00012	.0363	.00028
%RSD	2.0662	.12300	6.7135	37.07	.29156
#1	.00424	83.972	.00169	.0722	.09635
#2	.00436	84.118	.00186	.1236	.09595
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.33896**	**.14155**	**212.34**	**13.808**	**.32044**
Stddev	.00024	.00077	.71	.085	.00020
%RSD	.07101	.54723	.33255	.61770	.06149
#1	.33913	.14100	211.84	13.748	.32031
#2	.33879	.14210	212.84	13.869	.32058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198138-F-9-A Acquired: 6/10/2022 20:24:08 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**75.692**	**3.6937**	**.00284**	**2.9204**	**.18898**
Stddev	.080	.0289	.00016	.0141	.00057
%RSD	.10589	.78217	5.5951	.48168	.30124
#1	75.635	3.6733	.00273	2.9105	.18938
#2	75.749	3.7142	.00296	2.9304	.18857
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.40**	**.98340**	**3.3809**	**.01037**	**-.00572**
Stddev	.01	.00186	.0126	.00388	.00080
%RSD	.0336	.18874	.37354	37.411	14.052
#1	28.41	.98471	3.3898	.00763	-.00629
#2	28.39	.98208	3.3720	.01312	-.00515
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.9733**	**.06205**	**.28851**	**1.110**	**10.668**
Stddev	.0527	.00030	.00064	.000	.040
%RSD	.88206	.48260	.22051	.0271	.37213
#1	5.9360	.06184	.28806	1.110	10.640
#2	6.0105	.06226	.28896	1.111	10.696
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198138-F-9-A Acquired: 6/10/2022 20:24:08 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00665**	**.39427**	**.62582**	**1.014**
Stddev	.00035	.00085	.00167	.000
%RSD	5.2115	.21677	.26749	.0249
#1	-.00689	.39366	.62463	1.014
#2	-.00640	.39487	.62700	1.014
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3367.7**	**3799.8**	**77230.**	**6136.3**
Stddev	7.3	8.3	244.	6.3
%RSD	.21778	.21818	.31608	.10242
#1	3362.5	3793.9	77403.	6131.9
#2	3372.9	3805.7	77058.	6140.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.674%	105.57%	105.60%	106.60%
Range				

Sample Name: 480-198138-D-10-B Acquired: 6/10/2022 20:28:06 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**56.466**	**.05684**	**.01957**	**.19581**
Stddev	.00082	.203	.00276	.00010	.00036
%RSD	384.65	.35887	4.8610	.51953	.18256
#1	-.00080	56.609	.05488	.01964	.19607
#2	.00037	56.323	.05879	.01950	.19556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00243**	**13.077**	**.00084**	**.0958**	**.02647**
Stddev	.00002	.085	.00004	.1178	.00039
%RSD	.96841	.65279	4.2032	123.0	1.4894
#1	.00242	13.137	.00087	.0125	.02675
#2	.00245	13.016	.00082	.1790	.02619
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12396**	**.06092**	**62.794**	**5.9773**	**.08924**
Stddev	.00004	.00016	.397	.0132	.00012
%RSD	.03365	.25651	.63163	.22152	.13785
#1	.12394	.06081	63.075	5.9679	.08916
#2	.12399	.06103	62.514	5.9866	.08933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198138-D-10-B Acquired: 6/10/2022 20:28:06 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.779**	**.66861**	**.00118**	**1.5615**	**.07076**
Stddev	.022	.00035	.00001	.0141	.00016
%RSD	.14629	.05280	.68673	.90485	.22546
#1	14.794	.66886	.00117	1.5715	.07087
#2	14.764	.66836	.00118	1.5515	.07065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.18**	**.08139**	**2.4279**	**.00131**	**-.00144**
Stddev	.00	.00114	.0013	.00240	.00164
%RSD	.0034	1.3955	.05301	182.82	114.27
#1	26.18	.08059	2.4288	-.00038	-.00028
#2	26.18	.08219	2.4270	.00301	-.00260
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.8273**	**.05487**	**.07836**	**1.039**	**3.4207**
Stddev	.1095	.00045	.00058	.003	.0075
%RSD	1.8796	.82726	.73430	.3065	.21997
#1	5.9047	.05455	.07877	1.037	3.4261
#2	5.7499	.05519	.07795	1.041	3.4154
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198138-D-10-B Acquired: 6/10/2022 20:28:06 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00125**	**.10402**	**.15747**	**1.009**
Stddev	.00088	.00001	.00094	.001
%RSD	70.591	.00862	.59809	.0579
#1	-.00188	.10402	.15814	1.009
#2	-.00063	.10403	.15680	1.009
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3722.2**	**3757.4**	**75966.**	**5955.8**
Stddev	14.6	10.2	154.	40.6
%RSD	.39297	.27122	.20266	.68235
#1	3711.9	3750.2	75857.	5927.0
#2	3732.6	3764.6	76075.	5984.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.482%	104.39%	103.87%	103.46%
Range				

Sample Name: 480-198174-G-8-D Acquired: 6/10/2022 20:31:51 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**28.978**	**.02013**	**.01337**	**.05591**
Stddev	.00054	.071	.00139	.00012	.00005
%RSD	109.82	.24590	6.9266	.92346	.09517
#1	-.00011	29.029	.02112	.01346	.05595
#2	-.00088	28.928	.01914	.01329	.05587
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00135**	**6.9942**	**.00004**	**.1924**	**.01190**
Stddev	.00007	.0008	.00009	.0919	.00008
%RSD	5.2509	.01220	243.06	47.76	.66012
#1	.00130	6.9948	.00010	.2573	.01196
#2	.00141	6.9936	-.00003	.1274	.01185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04863**	**.01944**	**32.385**	**3.4980**	**.04080**
Stddev	.00015	.00052	.094	.0146	.00117
%RSD	.31395	2.6672	.29156	.41671	2.8673
#1	.04852	.01907	32.452	3.5084	.03998
#2	.04873	.01980	32.318	3.4877	.04163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198174-G-8-D Acquired: 6/10/2022 20:31:51 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.9667**	**.34209**	**.00017**	**.79454**	**.03924**
Stddev	.0018	.00001	.00006	.01275	.00006
%RSD	.02529	.00191	32.530	1.6053	.16304
#1	6.9654	.34210	.00013	.80356	.03928
#2	6.9679	.34209	.00021	.78552	.03919
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.06**	**.01821**	**1.4609**	**.00039**	**-.00176**
Stddev	.00	.00005	.0047	.00156	.00177
%RSD	.0038	.26385	.32212	400.41	100.59
#1	26.06	.01824	1.4643	-.00072	-.00301
#2	26.06	.01817	1.4576	.00150	-.00051
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.3857**	**.05380**	**.02749**	**1.030**	**1.8441**
Stddev	.0057	.00075	.00011	.003	.0012
%RSD	.12946	1.4026	.40280	.2744	.06214
#1	4.3897	.05327	.02741	1.032	1.8449
#2	4.3817	.05433	.02757	1.028	1.8433
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198174-G-8-D Acquired: 6/10/2022 20:31:51 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00229**	**.04780**	**.05842**	**1.007**
Stddev	.00099	.00034	.00008	.001
%RSD	43.180	.70810	.13498	.0581
#1	-.00299	.04804	.05847	1.006
#2	-.00159	.04756	.05836	1.007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3827.0**	**3761.6**	**76391.**	**5888.4**
Stddev	4.8	6.1	70.	24.1
%RSD	.12422	.16304	.09226	.40956
#1	3830.4	3757.3	76441.	5905.5
#2	3823.7	3766.0	76341.	5871.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.086%	104.51%	104.45%	102.30%
Range				

Sample Name: 480-198658-A-14-A Acquired: 6/10/2022 20:35:37 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**150.20**	**.07688**	**.12163**	**.58700**
Stddev	.00042	.69	.00081	.00056	.00166
%RSD	109.17	.46268	1.0566	.46320	.28241
#1	.00068	150.69	.07745	.12123	.58583
#2	.00009	149.71	.07630	.12203	.58817
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00558**	**20.968**	**.00416**	**.1925**	**.05413**
Stddev	.00000	.117	.00006	.1305	.00007
%RSD	.02324	.55961	1.3794	67.78	.13552
#1	.00558	21.051	.00420	.2848	.05418
#2	.00558	20.885	.00412	.1003	.05407
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20792**	**.18771**	**179.09**	**20.069**	**.17876**
Stddev	.00050	.00010	.83	.132	.00082
%RSD	.23908	.05308	.46276	.65844	.45902
#1	.20757	.18764	179.67	20.163	.17934
#2	.20827	.18778	178.50	19.976	.17818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-14-A Acquired: 6/10/2022 20:35:37 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.238**	**1.9885**	**.04312**	**.80234**	**.14605**
Stddev	.048	.0041	.00023	.00711	.00000
%RSD	.28111	.20637	.53185	.88607	.00226
#1	17.272	1.9914	.04328	.79732	.14605
#2	17.203	1.9856	.04295	.80737	.14604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.65**	**.48728**	**2.5987**	**.00664**	**.00066**
Stddev	.00	.00082	.0043	.00227	.00134
%RSD	.0011	.16863	.16711	34.211	201.66
#1	26.65	.48670	2.6018	.00824	-.00028
#2	26.65	.48786	2.5957	.00503	.00161
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.843**	**.05819**	**.08937**	**1.091**	**.56781**
Stddev	.122	.00000	.00040	.001	.00297
%RSD	.88012	.00078	.45233	.1061	.52235
#1	13.929	.05820	.08965	1.092	.56991
#2	13.757	.05819	.08908	1.090	.56571
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198658-A-14-A Acquired: 6/10/2022 20:35:37 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00529**	**.58448**	**.85054**	**1.012**
Stddev	.00035	.00014	.00111	.000
%RSD	6.6881	.02317	.13062	.0136
#1	.00554	.58458	.85133	1.012
#2	.00504	.58439	.84976	1.012
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3540.2**	**3759.4**	**74863.**	**6061.0**
Stddev	2.3	3.8	110.	38.7
%RSD	.06491	.10025	.14726	.63795
#1	3538.5	3756.7	74785.	6033.7
#2	3541.8	3762.1	74941.	6088.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.959%	104.45%	102.36%	105.29%
Range				

Sample Name: 480-198728-A-1-B Acquired: 6/10/2022 20:39:24 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00082**	**110.34**	**.10095**	**.09321**	F **97.306**
Stddev	.00039	.52	.00057	.00014	.891
%RSD	47.348	.47070	.56653	.15318	.91597
#1	-.00054	109.98	.10135	.09331	96.676
#2	-.00109	110.71	.10054	.09311	97.937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00592**	**110.81**	**-.00145**	**.0857**	**.08948**
Stddev	.00001	.56	.00002	.0956	.00012
%RSD	.11389	.50290	1.2675	111.6	.13746
#1	.00592	110.42	-.00146	.1533	.08956
#2	.00591	111.21	-.00143	.0181	.08939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20452**	**.20022**	**205.64**	**24.408**	**.26200**
Stddev	.00071	.00048	.70	.120	.00044
%RSD	.34577	.24096	.33933	.49288	.16919
#1	.20502	.20056	205.15	24.323	.26168
#2	.20402	.19988	206.14	24.493	.26231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198728-A-1-B Acquired: 6/10/2022 20:39:24 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**43.720**	**3.8583**	**.04406**	**1.2884**	**.26780**
Stddev	.049	.0051	.00043	.0090	.00004
%RSD	.11114	.13223	.96844	.69768	.01390
#1	43.755	3.8547	.04436	1.2820	.26778
#2	43.686	3.8619	.04376	1.2948	.26783
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.05**	**.19021**	**41.530**	**.00547**	**-.00633**
Stddev	.00	.00007	.011	.00086	.00286
%RSD	.0012	.03528	.02666	15.757	45.123
#1	27.05	.19016	41.538	.00608	-.00836
#2	27.06	.19025	41.523	.00486	-.00431
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.460**	**.05533**	**1.6804**	**1.115**	**.41648**
Stddev	.088	.00071	.0036	.004	.00619
%RSD	.56788	1.2850	.21606	.3211	1.4860
#1	15.522	.05583	1.6778	1.113	.42085
#2	15.398	.05483	1.6829	1.118	.41210
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198728-A-1-B Acquired: 6/10/2022 20:39:24 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00256**	**.23293**	**.49229**	**1.042**
Stddev	.00013	.00091	.00023	.000
%RSD	5.1854	.39166	.04683	.0339
#1	-.00247	.23357	.49213	1.043
#2	-.00266	.23228	.49246	1.042
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3344.7**	**3751.2**	**76175.**	**6188.3**
Stddev	.5	4.5	10.	61.4
%RSD	.01379	.11892	.01283	.99209
#1	3345.1	3748.1	76168.	6231.7
#2	3344.4	3754.4	76182.	6144.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.103%	104.22%	104.15%	107.50%
Range				

Sample Name: 480-198691-A-1-C Acquired: 6/10/2022 20:43:18 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**-.01714**	**.00278**	**.00655**	**.00123**
Stddev	.00011	.02695	.00104	.00012	.00006
%RSD	18.235	157.23	37.345	1.7568	4.5685
#1	.00050	-.03620	.00351	.00663	.00127
#2	.00065	.00192	.00204	.00646	.00119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.12484**	**-.00003**	**.1326**	**-.00002**
Stddev	.00003	.00403	.00002	.1220	.00001
%RSD	73.050	3.2286	62.742	92.02	69.951
#1	.00002	.12769	-.00004	.0463	-.00003
#2	.00007	.12199	-.00001	.2188	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00120**	**.00078**	**.57779**	**.09102**	**.00180**
Stddev	.00015	.00010	.00263	.00082	.00046
%RSD	12.741	12.315	.45532	.90387	25.601
#1	.00109	.00071	.57965	.09044	.00212
#2	.00131	.00084	.57593	.09161	.00147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198691-A-1-C Acquired: 6/10/2022 20:43:18 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03507**	**.01330**	**-.00117**	**1.6394**	**.00148**
Stddev	.00202	.00005	.00000	.0083	.00004
%RSD	5.7456	.37471	.40256	.50475	2.6120
#1	.03365	.01327	-.00117	1.6453	.00145
#2	.03650	.01334	-.00117	1.6336	.00151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00158**	**.55401**	**-.00074**	**-.00302**
Stddev	.00	.00035	.00419	.00024	.00422
%RSD	.0009	22.012	.75712	32.842	139.53
#1	25.03	.00133	.55698	-.00057	-.00004
#2	25.03	.00182	.55105	-.00092	-.00600
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15956**	**.05424**	**.00043**	**.9984**	**.00114**
Stddev	.01294	.00067	.00001	.0081	.00023
%RSD	8.1128	1.2336	2.7386	.8122	19.871
#1	.16872	.05377	.00044	.9927	.00098
#2	.15041	.05471	.00042	1.004	.00130
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198691-A-1-C Acquired: 6/10/2022 20:43:18 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.00021**	**.00259**	**.9998**
Stddev	.00007	.00012	.00002	.0003
%RSD	58.779	56.620	.64337	.0334
#1	-.00007	-.00013	.00260	.9996
#2	-.00016	-.00029	.00258	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4009.1**	**3651.6**	**74762.**	**5683.4**
Stddev	9.9	2.5	2.	.6
%RSD	.24629	.06805	.00332	.00984
#1	4002.1	3649.8	74763.	5683.8
#2	4016.1	3653.3	74760.	5683.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.610%	101.45%	102.22%	98.734%
Range				

Sample Name: 480-198691-A-2-C Acquired: 6/10/2022 20:47:11 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00088**	**-.00342**	**.00109**	**.00499**	**.00036**
Stddev	.00009	.03878	.00104	.00009	.00001
%RSD	9.7838	1132.9	95.480	1.8736	3.5438
#1	.00094	-.03084	.00036	.00493	.00037
#2	.00082	.02400	.00183	.00506	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.14840**	**.00001**	**.1577**	**.00015**
Stddev	.00003	.00313	.00003	.1117	.00000
%RSD	55.575	2.1067	252.73	70.83	3.1398
#1	.00009	.15061	-.00001	.2367	.00015
#2	.00004	.14619	.00003	.0787	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00095**	**.00044**	**.68389**	**.07316**	**.00244**
Stddev	.00034	.00010	.00633	.04010	.00012
%RSD	36.149	21.652	.92501	54.810	5.1032
#1	.00119	.00038	.68836	.10152	.00235
#2	.00070	.00051	.67942	.04481	.00253
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198691-A-2-C Acquired: 6/10/2022 20:47:11 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05579**	**.02124**	**-.00107**	**1.6198**	**.00148**
Stddev	.00214	.00011	.00021	.0039	.00012
%RSD	3.8444	.50401	19.648	.23882	8.3151
#1	.05731	.02131	-.00121	1.6225	.00157
#2	.05428	.02116	-.00092	1.6170	.00139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00083**	**.48651**	**-.00256**	**-.00002**
Stddev	.00	.00097	.00239	.00083	.00038
%RSD	.0001	117.85	.49219	32.222	1679.3
#1	25.03	.00152	.48482	-.00315	-.00029
#2	25.03	.00014	.48821	-.00198	.00025
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09657**	**.05311**	**.00019**	**.9982**	**.00019**
Stddev	.01904	.00019	.00003	.0014	.00009
%RSD	19.715	.35540	14.753	.1409	49.474
#1	.11003	.05298	.00021	.9992	.00012
#2	.08310	.05325	.00017	.9972	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198691-A-2-C Acquired: 6/10/2022 20:47:11 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00079**	**.00018**	**.00226**	**.9993**
Stddev	.00071	.00032	.00010	.0000
%RSD	90.347	175.74	4.3230	.0024
#1	-.00129	-.00004	.00220	.9993
#2	-.00028	.00041	.00233	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4019.5**	**3652.2**	**74624.**	**5632.4**
Stddev	1.4	7.6	125.	12.9
%RSD	.03475	.20859	.16815	.22917
#1	4018.5	3646.8	74535.	5623.3
#2	4020.5	3657.6	74712.	5641.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.868%	101.47%	102.03%	97.848%
Range				

Sample Name: 480-198691-A-3-G Acquired: 6/10/2022 20:51:03 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**2.6890**	**.08026**	**.07918**	**.13237**
Stddev	.00015	.0003	.00216	.00011	.00019
%RSD	90.384	.01011	2.6899	.14073	.14257
#1	-.00006	2.6892	.07874	.07925	.13224
#2	-.00028	2.6888	.08179	.07910	.13250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00267**	**16.218**	**.00104**	**.4613**	**.02581**
Stddev	.00000	.072	.00005	.0922	.00044
%RSD	.04731	.44286	5.0515	19.98	1.7227
#1	.00267	16.269	.00100	.3961	.02549
#2	.00267	16.167	.00107	.5264	.02612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17523**	**.48256**	**491.81**	**1.0518**	**.24344**
Stddev	.00170	.00195	1.46	.0032	.00171
%RSD	.97124	.40486	.29634	.30286	.70180
#1	.17403	.48118	492.84	1.0540	.24465
#2	.17643	.48395	490.78	1.0495	.24223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198691-A-3-G Acquired: 6/10/2022 20:51:03 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.92069**	**4.0519**	**.12577**	**1.2001**	**.11784**
Stddev	.00251	.0032	.00030	.0006	.00064
%RSD	.27209	.07886	.24186	.05143	.54401
#1	.91892	4.0496	.12599	1.1996	.11739
#2	.92246	4.0541	.12556	1.2005	.11830
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**76.59**	**.14672**	**7.3327**	**.17925**	**-.00007**
Stddev	.02	.00142	.0074	.00130	.00528
%RSD	.0220	.96937	.10075	.72673	7369.1
#1	76.60	.14571	7.3275	.18017	-.00381
#2	76.58	.14772	7.3380	.17833	.00366
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.8155**	**.08255**	**.02829**	**1.230**	**.36501**
Stddev	.0083	.00008	.00021	.001	.00209
%RSD	.29645	.09627	.74727	.1101	.57252
#1	2.8214	.08249	.02844	1.231	.36353
#2	2.8096	.08261	.02814	1.230	.36649
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198691-A-3-G Acquired: 6/10/2022 20:51:03 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00354**	**.01060**	**.91634**	**1.011**
Stddev	.00262	.00023	.00005	.000
%RSD	73.843	2.1243	.00585	.0034
#1	-.00169	.01044	.91638	1.011
#2	-.00539	.01076	.91630	1.011
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3566.8**	**3532.2**	**72059.**	**5619.3**
Stddev	1.7	6.4	115.	17.7
%RSD	.04826	.17981	.15962	.31544
#1	3568.0	3527.7	72140.	5606.7
#2	3565.6	3536.7	71978.	5631.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.621%	98.138%	98.525%	97.619%
Range				

Sample Name: MB 480-629477/1-A Acquired: 6/10/2022 20:54:56 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**-.00596**	**.00025**	**-.00025**	**.00020**
Stddev	.00081	.02207	.00093	.00007	.00001
%RSD	319.22	370.25	369.04	26.492	6.9281
#1	.00083	-.02157	.00091	-.00021	.00021
#2	-.00032	.00965	-.00041	-.00030	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.03203**	**-.00020**	**.1200**	**.00011**
Stddev	.00001	.00181	.00006	.1787	.00009
%RSD	6.5462	5.6459	30.061	148.9	82.494
#1	.00020	.03331	-.00025	.2464	.00005
#2	.00018	.03075	-.00016	-.0063	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00008**	**.01484**	**-.00356**	**-.00022**
Stddev	.00006	.00046	.00181	.00062	.00055
%RSD	17.996	547.81	12.166	17.457	256.80
#1	-.00035	-.00024	.01612	-.00312	.00018
#2	-.00027	.00041	.01356	-.00400	-.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629477/1-A Acquired: 6/10/2022 20:54:56 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00122**	**.00059**	**-.00105**	**.00915**	**.00028**
Stddev	.00030	.00001	.00009	.00104	.00010
%RSD	24.695	2.0379	8.7305	11.386	35.263
#1	.00101	.00060	-.00112	.00989	.00021
#2	.00144	.00058	-.00099	.00841	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00132**	**.01594**	**-.00286**	**-.00396**
Stddev	.00	.00030	.00004	.00029	.00158
%RSD	.0004	22.805	.26354	10.062	39.847
#1	25.01	.00154	.01591	-.00265	-.00507
#2	25.01	.00111	.01597	-.00306	-.00284
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10868**	**.00143**	**.00002**	**.9951**	**.00007**
Stddev	.00821	.00033	.00002	.0062	.00015
%RSD	7.5586	23.171	147.95	.6221	206.34
#1	.10287	.00120	.00003	.9995	-.00003
#2	.11448	.00166	-.00000	.9907	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629477/1-A Acquired: 6/10/2022 20:54:56 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00091**	**.00005**	**-.00253**	**.9992**
Stddev	.00014	.00002	.00008	.0005
%RSD	15.314	40.964	2.9884	.0491
#1	.00101	.00004	-.00247	.9989
#2	.00081	.00007	-.00258	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3998.7**	**3607.5**	**72949.**	**5552.4**
Stddev	5.8	9.3	157.	62.0
%RSD	.14450	.25702	.21461	1.1170
#1	4002.8	3614.0	73059.	5508.6
#2	3994.6	3600.9	72838.	5596.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.351%	100.23%	99.742%	96.458%
Range				

Sample Name: CCV-7024752 Acquired: 6/10/2022 20:58:51 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95685**	**49.517**	**1.0109**	**1.0488**	**1.0427**
Stddev	.00098	.197	.0001	.0004	.0028
%RSD	.10201	.39790	.00912	.03666	.27086
#1	.95754	49.657	1.0110	1.0491	1.0447
#2	.95616	49.378	1.0109	1.0486	1.0407
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0164**	**49.766**	**1.0329**	**1.245**	**1.0324**
Stddev	.0024	.109	.0007	.162	.0015
%RSD	.23637	.21917	.06546	12.98	.14393
#1	1.0181	49.843	1.0324	1.130	1.0335
#2	1.0147	49.689	1.0334	1.359	1.0314
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98388**	**.98588**	**51.478**	**51.244**	**.98823**
Stddev	.00105	.00078	.120	.188	.00042
%RSD	.10701	.07961	.23241	.36661	.04205
#1	.98463	.98644	51.563	51.377	.98794
#2	.98314	.98533	51.394	51.111	.98852
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 20:58:51 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.756**	**1.0071**	**1.0102**	**50.978**	**1.0141**
Stddev	.086	.0026	.0008	.122	.0003
%RSD	.17733	.25602	.07873	.23888	.02662
#1	48.817	1.0090	1.0108	51.065	1.0142
#2	48.695	1.0053	1.0097	50.892	1.0139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.11**	**1.0265**	**25.504**	**.97691**	**.99231**
Stddev	.00	.0004	.041	.00213	.00433
%RSD	.0010	.04185	.16177	.21846	.43656
#1	38.11	1.0268	25.475	.97540	.99538
#2	38.11	1.0262	25.534	.97842	.98925
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9153**	**1.0334**	**1.0162**	**1.515**	**.99135**
Stddev	.0092	.0026	.0036	.003	.00268
%RSD	.09329	.24905	.34983	.2125	.27063
#1	9.9218	1.0352	1.0188	1.517	.99325
#2	9.9087	1.0316	1.0137	1.512	.98946
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 20:58:51 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0327**	**.99584**	**1.0598**	**1.513**
Stddev	.0009	.00129	.0018	.002
%RSD	.08952	.12972	.16664	.1302
#1	1.0320	.99675	1.0611	1.514
#2	1.0333	.99493	1.0586	1.512
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3394.7**	**3415.2**	**68424.**	**5436.5**
Stddev	1.5	.7	100.	2.9
%RSD	.04558	.01923	.14676	.05375
#1	3393.6	3414.7	68353.	5434.4
#2	3395.8	3415.7	68495.	5438.5

Sample Name: CCB-7026764 Acquired: 6/10/2022 21:02:31 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00252**	**.00017**	**.00070**	**.00003**
Stddev	.00018	.02371	.00015	.00037	.00002
%RSD	89.324	940.19	86.427	53.377	69.743
#1	.00008	-.01424	.00007	.00096	.00004
#2	.00033	.01929	.00027	.00043	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00117**	**-.00005**	**.1597**	**.00001**
Stddev	.00007	.00344	.00003	.0946	.00013
%RSD	114.40	294.44	63.930	59.21	2234.8
#1	.00001	.00360	-.00003	.2266	-.00009
#2	.00011	-.00126	-.00007	.0929	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00025**	**.00786**	**.01966**	**.00110**
Stddev	.00003	.00030	.00056	.01574	.00039
%RSD	76.311	122.51	7.1129	80.062	35.736
#1	.00006	-.00046	.00747	.03079	.00138
#2	.00002	-.00003	.00826	.00853	.00082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 21:02:31 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.00007**	**.00171**	**-.00917**	**.00006**
Stddev	.00161	.00003	.00002	.00750	.00009
%RSD	271.73	43.765	1.3350	81.795	159.12
#1	.00173	.00005	.00172	-.01447	-.00001
#2	-.00055	.00010	.00169	-.00386	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00026**	**.00183**	**-.00208**	**.00289**
Stddev	.00	.00033	.00018	.00204	.00210
%RSD	.0007	126.22	10.116	97.772	72.648
#1	25.00	.00050	.00170	-.00064	.00141
#2	25.00	.00003	.00196	-.00352	.00437
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00495**	**-.00004**	**-.00009**	**1.005**	**.00013**
Stddev	.00515	.00007	.00003	.003	.00011
%RSD	103.92	203.04	29.707	.2957	83.121
#1	-.00859	.00002	-.00007	1.003	.00021
#2	-.00131	-.00009	-.00011	1.007	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 21:02:31 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00082**	**-.00005**	**-.00106**	**.9995**
Stddev	.00023	.00041	.00040	.0005
%RSD	28.422	813.93	37.460	.0493
#1	.00098	.00024	-.00078	.9992
#2	.00065	-.00034	-.00134	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4048.8**	**3673.3**	**74863.**	**5625.4**
Stddev	4.4	8.8	4.	33.0
%RSD	.10981	.23939	.00468	.58741
#1	4045.7	3667.1	74861.	5602.1
#2	4052.0	3679.5	74866.	5648.8

Sample Name: CCVL-7028546 Acquired: 6/10/2022 21:06:25 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00589**	**.19441**	**.01410**	**.01930**	**.00212**
Stddev	.00059	.00064	.00205	.00002	.00002
%RSD	10.016	.32949	14.532	.09740	.74204
#1	.00547	.19396	.01265	.01929	.00213
#2	.00631	.19486	.01555	.01931	.00211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**.48366**	**.00200**	**.2016**	**.00391**
Stddev	.00005	.00190	.00010	.0487	.00000
%RSD	2.3952	.39278	4.9343	24.16	.09387
#1	.00203	.48231	.00193	.1671	.00391
#2	.00210	.48500	.00207	.2360	.00392
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00390**	**.00935**	**.04909**	**.46166**	**.02726**
Stddev	.00028	.00011	.00051	.03527	.00220
%RSD	7.1036	1.1788	1.0324	7.6388	8.0558
#1	.00409	.00943	.04945	.43672	.02881
#2	.00370	.00927	.04873	.48660	.02571
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/10/2022 21:06:25 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18257**	**.00335**	**.00897**	**.93817**	**.00966**
Stddev	.00065	.00003	.00007	.00714	.00008
%RSD	.35826	.82984	.79265	.76139	.80970
#1	.18211	.00337	.00892	.93311	.00960
#2	.18304	.00333	.00902	.94322	.00971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01052**	**.18925**	**.01466**	**.02009**
Stddev	.00	.00124	.00520	.00267	.00235
%RSD	.0000	11.820	2.7454	18.229	11.718
#1	25.00	.00964	.18558	.01655	.02175
#2	25.00	.01140	.19292	.01277	.01843
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.43389**	**.00840**	**.00487**	F **.9991**	**.00402**
Stddev	.00717	.00015	.00007	.0016	.00010
%RSD	1.6515	1.8257	1.3779	.1642	2.3927
#1	.43896	.00851	.00491	1.000	.00396
#2	.42883	.00830	.00482	.9979	.00409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/10/2022 21:06:25 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01859**	**.00444**	**.00817**	F **.9996**
Stddev	.00039	.00025	.00018	.0003
%RSD	2.1058	5.6993	2.2368	.0277
#1	.01887	.00427	.00804	.9994
#2	.01832	.00462	.00830	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4002.8**	**3655.0**	**74134.**	**5642.9**
Stddev	.3	5.9	38.	13.7
%RSD	.00756	.16273	.05166	.24230
#1	4002.6	3650.8	74107.	5652.6
#2	4003.0	3659.2	74161.	5633.3

Sample Name: LCSSRM 480-629477/2- Acquired: 6/10/2022 21:10:17 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.30662**	**86.533**	**1.5240**	**.88257**	**2.3507**
Stddev	.00004	.021	.0016	.00187	.0010
%RSD	.01211	.02461	.10598	.21134	.04043
#1	.30664	86.518	1.5251	.88125	2.3501
#2	.30659	86.548	1.5228	.88389	2.3514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6857**	**44.765**	**1.3491**	**.1805**	**1.3538**
Stddev	.0015	.029	.0008	.1358	.0013
%RSD	.09091	.06456	.05610	75.21	.09319
#1	1.6846	44.744	1.3497	.2766	1.3547
#2	1.6868	44.785	1.3486	.0845	1.3529
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4492**	**.52505**	**149.49**	**20.081**	**.06662**
Stddev	.0011	.00004	.22	.033	.00173
%RSD	.07887	.00812	.14942	.16278	2.5937
#1	1.4484	.52509	149.34	20.104	.06784
#2	1.4500	.52502	149.65	20.057	.06540
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSSRM 480-629477/2- Acquired: 6/10/2022 21:10:17 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.639**	**2.5621**	**.92470**	**1.4057**	**.59605**
Stddev	.001	.0013	.00385	.0010	.00011
%RSD	.00524	.04969	.41638	.06736	.01841
#1	22.640	2.5612	.92742	1.4064	.59613
#2	22.638	2.5630	.92197	1.4051	.59598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.78**	**1.4212**	**.82720**	**.86061**	**1.6199**
Stddev	.00	.0019	.00551	.00299	.0178
%RSD	.0028	.13034	.66631	.34764	1.0990
#1	27.78	1.4225	.83110	.86273	1.6325
#2	27.78	1.4199	.82331	.85850	1.6073
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.9862**	**.80922**	**.86075**	**1.135**	**3.6208**
Stddev	.0438	.00102	.00025	.002	.0009
%RSD	1.4663	.12662	.02906	.2020	.02401
#1	3.0171	.80850	.86092	1.133	3.6214
#2	2.9552	.80995	.86057	1.136	3.6201
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSSRM 480-629477/2- Acquired: 6/10/2022 21:10:17 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**1.2812**	**.62440**	**1.5362**	**1.026**
Stddev	.0001	.00165	.0014	.000
%RSD	.00402	.26403	.09062	.0419
#1	1.2811	.62323	1.5352	1.027
#2	1.2812	.62557	1.5372	1.026
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3441.2**	**3879.1**	**78105.**	**6246.0**
Stddev	4.7	6.8	129.	17.9
%RSD	.13599	.17627	.16518	.28670
#1	3444.6	3884.0	78196.	6258.7
#2	3437.9	3874.3	78014.	6233.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.501%	107.78%	106.79%	108.51%
Range				

Sample Name: 480-198548-A-1-G Acquired: 6/10/2022 21:13:57 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00082**	**36.878**	**.02757**	**.00372**	**.13903**
Stddev	.00014	.026	.00096	.00003	.00031
%RSD	17.609	.07183	3.4933	.91889	.22108
#1	-.00072	36.897	.02689	.00369	.13882
#2	-.00092	36.859	.02825	.00374	.13925
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**731.14**	**.00021**	**.1547**	**.04317**
Stddev	.00001	.77	.00021	.0159	.00028
%RSD	.71313	.10481	101.89	10.26	.65109
#1	.00207	730.60	.00036	.1435	.04337
#2	.00209	731.69	.00006	.1659	.04298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04361**	**.07329**	**116.12**	**6.1112**	**.09591**
Stddev	.00025	.00098	.00	.0277	.00133
%RSD	.58309	1.3310	.00066	.45380	1.3848
#1	.04343	.07260	116.12	6.1308	.09685
#2	.04379	.07398	116.12	6.0916	.09497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198548-A-1-G Acquired: 6/10/2022 21:13:57 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**386.59**	**2.7827**	**.00548**	**1.0159**	**.08113**
Stddev	2.26	.0050	.00053	.0080	.00048
%RSD	.58539	.18061	9.7458	.78872	.59430
#1	384.99	2.7792	.00510	1.0103	.08147
#2	388.19	2.7863	.00585	1.0216	.08079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.84**	**.05695**	**.23125**	**.00250**	**.00244**
Stddev	.00	.00200	.00336	.00113	.00351
%RSD	.0033	3.5191	1.4540	45.047	143.67
#1	25.84	.05837	.23363	.00170	-.00004
#2	25.84	.05553	.22888	.00330	.00493
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2146**	**.01346**	**.43404**	**1.053**	**.66204**
Stddev	.0496	.00033	.00030	.002	.00714
%RSD	.95053	2.4629	.06991	.1473	1.0780
#1	5.2497	.01322	.43425	1.054	.65699
#2	5.1796	.01369	.43382	1.052	.66709
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198548-A-1-G Acquired: 6/10/2022 21:13:57 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00169**	**.04603**	**.25343**	**1.020**
Stddev	.00051	.00002	.00045	.000
%RSD	30.010	.04748	.17737	.0278
#1	.00133	.04601	.25311	1.021
#2	.00204	.04605	.25375	1.020
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2918.5**	**3327.6**	**68107.**	**5689.4**
Stddev	1.5	6.9	415.	15.2
%RSD	.05040	.20639	.60899	.26757
#1	2917.5	3332.5	68400.	5700.2
#2	2919.6	3322.7	67813.	5678.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	72.513%	92.452%	93.121%	98.838%
Range				

Sample Name: 480-198548-A-1-Gsd@5 Acquired: 6/10/2022 21:17:53 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**7.7751**	**.00666**	**.00006**	**.02935**
Stddev	.00111	.0157	.00086	.00018	.00007
%RSD	316.23	.20137	12.944	310.18	.24563
#1	-.00043	7.7640	.00727	.00019	.02940
#2	.00113	7.7861	.00605	-.00007	.02930
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**163.58**	**.00012**	**.2884**	**.00807**
Stddev	.00003	1.01	.00012	.2330	.00015
%RSD	5.5067	.61892	103.80	80.79	1.9148
#1	.00051	164.29	.00020	.1236	.00796
#2	.00055	162.86	.00003	.4531	.00818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00949**	**.01471**	**25.710**	**1.1647**	**.01812**
Stddev	.00034	.00020	.033	.0162	.00070
%RSD	3.5635	1.3932	.13026	1.3869	3.8490
#1	.00973	.01485	25.734	1.1761	.01762
#2	.00925	.01456	25.687	1.1533	.01861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198548-A-1-Gsd@5 Acquired: 6/10/2022 21:17:53 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**80.887**	**.60216**	**.00008**	**.19234**	**.01568**
Stddev	.215	.00114	.00043	.00184	.00022
%RSD	.26541	.18971	568.60	.95534	1.3954
#1	81.038	.60297	-.00023	.19104	.01584
#2	80.735	.60136	.00038	.19364	.01553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.17**	**.01146**	**.02997**	**-.00209**	**-.00725**
Stddev	.00	.00123	.00446	.00192	.00082
%RSD	.0022	10.750	14.871	92.176	11.336
#1	25.17	.01059	.03312	-.00345	-.00667
#2	25.17	.01233	.02682	-.00073	-.00783
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0312**	**.00226**	**.09243**	**1.012**	**.14000**
Stddev	.0121	.00098	.00019	.005	.00114
%RSD	1.1691	43.302	.20811	.5305	.81084
#1	1.0227	.00295	.09229	1.008	.13920
#2	1.0397	.00157	.09257	1.016	.14080
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198548-A-1-Gsd@5 Acquired: 6/10/2022 21:17:53 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00036**	**.00960**	**.05389**	**1.004**
Stddev	.00036	.00002	.00073	.000
%RSD	99.798	.24239	1.3521	.0289
#1	.00011	.00959	.05440	1.004
#2	.00061	.00962	.05337	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3461.9**	**3439.2**	**70208.**	**5534.6**
Stddev	4.9	4.1	128.	8.0
%RSD	.14279	.11969	.18224	.14490
#1	3458.4	3436.3	70118.	5540.3
#2	3465.4	3442.1	70299.	5528.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.015%	95.552%	95.994%	96.148%
Range				

Sample Name: 480-198548-A-1-GPDS Acquired: 6/10/2022 21:21:47 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09779**	**54.697**	**.44111**	**.40603**	**.53195**
Stddev	.00035	.193	.00102	.00033	.00046
%RSD	.36284	.35318	.23084	.08014	.08643
#1	.09804	54.834	.44039	.40580	.53227
#2	.09754	54.561	.44183	.40626	.53162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.39709**	**715.24**	**.41320**	**.0632**	**.47853**
Stddev	.00016	1.36	.00048	.0447	.00069
%RSD	.04061	.19077	.11537	70.79	.14482
#1	.39697	714.27	.41354	.0316	.47804
#2	.39720	716.20	.41287	.0949	.47902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.41274**	**.47422**	**129.46**	**26.968**	**.49967**
Stddev	.00001	.00043	.32	.105	.00159
%RSD	.00129	.08977	.25082	.39094	.31726
#1	.41274	.47452	129.69	27.042	.50079
#2	.41273	.47392	129.23	26.893	.49855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198548-A-1-GPDS Acquired: 6/10/2022 21:21:47 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**385.25**	**3.0301**	**.39168**	**21.715**	**.49621**
Stddev	.09	.0006	.00159	.045	.00138
%RSD	.02341	.01995	.40650	.20677	.27732
#1	385.18	3.0305	.39280	21.746	.49719
#2	385.31	3.0297	.39055	21.683	.49524
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.79**	**.48998**	**21.032**	**.38447**	**.39085**
Stddev	.00	.00065	.006	.00120	.00088
%RSD	.0088	.13207	.03091	.31331	.22528
#1	25.79	.48952	21.027	.38532	.39147
#2	25.79	.49043	21.037	.38362	.39023
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.546**	**.45292**	**.81051**	**1.057**	**1.0046**
Stddev	.017	.00231	.00230	.004	.0008
%RSD	.06879	.51021	.28330	.3520	.08349
#1	24.558	.45129	.81214	1.055	1.0051
#2	24.534	.45456	.80889	1.060	1.0040
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198548-A-1-GPDS Acquired: 6/10/2022 21:21:47 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.43370**	**.42564**	**.60896**	**1.022**
Stddev	.00184	.00123	.00013	.001
%RSD	.42352	.28921	.02115	.0712
#1	.43500	.42651	.60905	1.022
#2	.43240	.42477	.60887	1.021
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2879.0**	**3291.2**	**67207.**	**5618.9**
Stddev	2.6	1.9	22.	8.7
%RSD	.09024	.05642	.03203	.15563
#1	2880.8	3292.5	67222.	5625.1
#2	2877.1	3289.9	67192.	5612.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.531%	91.440%	91.891%	97.613%
Range				

Sample Name: 480-198548-A-1-H MS Acquired: 6/10/2022 21:25:41 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09668**	**75.143**	**.42374**	**.39513**	**.65732**
Stddev	.00054	.043	.00147	.00077	.00247
%RSD	.55843	.05742	.34694	.19417	.37650
#1	.09706	75.113	.42478	.39459	.65907
#2	.09629	75.174	.42270	.39567	.65557
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38958**	**667.69**	**.40217**	**.1149**	**.47993**
Stddev	.00019	4.37	.00083	.0589	.00072
%RSD	.04997	.65474	.20571	51.22	.15021
#1	.38972	664.60	.40275	.1566	.47942
#2	.38945	670.78	.40158	.0733	.48044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.42829**	**.44507**	**124.59**	**32.453**	**.48831**
Stddev	.00045	.00070	.30	.057	.00076
%RSD	.10519	.15751	.23892	.17446	.15607
#1	.42861	.44457	124.38	32.493	.48777
#2	.42798	.44556	124.80	32.413	.48885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198548-A-1-H MS Acquired: 6/10/2022 21:25:41 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**364.56**	**3.2172**	**.38603**	**22.153**	**.48864**
Stddev	1.72	.0028	.00110	.010	.00064
%RSD	.47139	.08690	.28614	.04311	.13097
#1	365.78	3.2192	.38681	22.159	.48819
#2	363.35	3.2152	.38525	22.146	.48910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.92**	**.50294**	**20.476**	**.36128**	**.38141**
Stddev	.00	.00081	.021	.00291	.00111
%RSD	.0056	.16194	.10253	.80567	.29043
#1	25.93	.50351	20.491	.36334	.38062
#2	25.92	.50236	20.461	.35922	.38219
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.2976**	**.54066**	**.82411**	**1.054**	**1.4950**
Stddev	.0261	.00019	.00018	.006	.0013
%RSD	.35792	.03443	.02148	.5854	.08432
#1	7.3161	.54080	.82424	1.050	1.4959
#2	7.2791	.54053	.82399	1.059	1.4941
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198548-A-1-H MS Acquired: 6/10/2022 21:25:41 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.42113**	**.43683**	**.63093**	**1.046**
Stddev	.00351	.00159	.00250	.001
%RSD	.83323	.36395	.39677	.0868
#1	.42362	.43796	.63270	1.045
#2	.41865	.43571	.62916	1.047
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2897.4**	**3347.4**	**67898.**	**5689.4**
Stddev	5.0	.2	24.	25.5
%RSD	.17246	.00598	.03595	.44764
#1	2900.9	3347.3	67881.	5707.5
#2	2893.9	3347.6	67916.	5671.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.988%	93.004%	92.836%	98.838%
Range				

Sample Name: 480-198548-A-1-I MSD Acquired: 6/10/2022 21:29:35 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09316**	**77.249**	**.44020**	**.38704**	**.61462**
Stddev	.00012	.223	.00030	.00048	.00062
%RSD	.12777	.28872	.06720	.12339	.10076
#1	.09308	77.407	.43999	.38670	.61506
#2	.09325	77.091	.44041	.38738	.61418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37850**	**634.81**	**.39016**	**.0765**	**.46570**
Stddev	.00112	2.02	.00031	.0495	.00068
%RSD	.29560	.31881	.07982	64.68	.14506
#1	.37929	633.38	.39038	.0415	.46618
#2	.37771	636.24	.38994	.1115	.46523
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.40466**	**.43787**	**137.02**	**36.679**	**.49325**
Stddev	.00013	.00009	.34	.172	.00299
%RSD	.03169	.02125	.25100	.46930	.60695
#1	.40475	.43794	137.27	36.801	.49537
#2	.40457	.43781	136.78	36.557	.49113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198548-A-1-I MSD Acquired: 6/10/2022 21:29:35 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**359.33**	**2.6300**	**.37225**	**21.491**	**.47951**
Stddev	.83	.0015	.00140	.058	.00014
%RSD	.23153	.05608	.37728	.26962	.02974
#1	358.75	2.6311	.37324	21.532	.47961
#2	359.92	2.6290	.37125	21.450	.47941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.58**	**.48350**	**19.853**	**.34752**	**.36849**
Stddev	.00	.00122	.020	.00006	.00390
%RSD	.0002	.25296	.10304	.01784	1.0597
#1	26.58	.48264	19.839	.34756	.36573
#2	26.58	.48437	19.868	.34748	.37125
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5893**	**.52990**	**.75642**	**1.066**	**1.5041**
Stddev	.0067	.00014	.00323	.004	.0037
%RSD	.07006	.02562	.42686	.3984	.24790
#1	9.5846	.52980	.75871	1.063	1.5015
#2	9.5941	.52999	.75414	1.069	1.5067
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198548-A-1-I MSD Acquired: 6/10/2022 21:29:35 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.41239**	**.43034**	**.63652**	**1.043**
Stddev	.00434	.00053	.00426	.001
%RSD	1.0528	.12256	.66854	.0715
#1	.41546	.42997	.63953	1.042
#2	.40932	.43072	.63352	1.043
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2902.0**	**3398.3**	**69002.**	**5752.7**
Stddev	1.0	3.1	11.	5.1
%RSD	.03425	.08993	.01645	.08810
#1	2902.7	3400.4	68994.	5749.2
#2	2901.3	3396.1	69010.	5756.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	72.103%	94.416%	94.345%	99.938%
Range				

Sample Name: LB 480-629421/1-B Acquired: 6/10/2022 21:33:28 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.00366**	**.00389**	**.01716**	**.00098**
Stddev	.00010	.00659	.00130	.00015	.00003
%RSD	71.904	180.03	33.522	.85517	3.0654
#1	.00021	.00832	.00297	.01706	.00100
#2	.00007	-.00100	.00481	.01726	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.12865**	**-.00002**	**.0384**	**-.00011**
Stddev	.00001	.00506	.00010	.2045	.00006
%RSD	7.4432	3.9366	547.70	532.4	48.922
#1	.00011	.13223	.00005	.1830	-.00015
#2	.00013	.12507	-.00009	-.1062	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00336**	**.00141**	**.03698**	**1.0113**	**-.00077**
Stddev	.00004	.00032	.00004	.0075	.00115
%RSD	1.2987	22.420	.10904	.74296	149.79
#1	.00333	.00163	.03701	1.0166	-.00158
#2	.00340	.00119	.03695	1.0060	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LB 480-629421/1-B Acquired: 6/10/2022 21:33:28 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02964**	**.00104**	**.00046**	F **1475.5**	**.00079**
Stddev	.00098	.00003	.00033	2.8	.00004
%RSD	3.2951	2.7309	70.910	.18709	5.5818
#1	.02895	.00106	.00023	1477.5	.00083
#2	.03033	.00102	.00069	1473.6	.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				1.0000	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00190**	**.03600**	**.00165**	**-.00299**
Stddev	.00	.00026	.00170	.00108	.00269
%RSD	.0043	13.528	4.7289	65.528	89.703
#1	25.00	.00208	.03479	.00242	-.00110
#2	25.00	.00172	.03720	.00089	-.00489
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04780**	**.00052**	**.00033**	**1.002**	**.00005**
Stddev	.02214	.00008	.00005	.004	.00007
%RSD	46.309	16.036	14.938	.3538	137.54
#1	.06346	.00058	.00036	1.004	.00000
#2	.03215	.00046	.00029	.9994	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LB 480-629421/1-B Acquired: 6/10/2022 21:33:28 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00086**	**.00001**	**.00198**	**.9995**
Stddev	.00008	.00020	.00158	.0007
%RSD	9.6011	2382.8	79.871	.0727
#1	-.00080	.00015	.00086	1.000
#2	-.00092	-.00014	.00310	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3035.7**	**3201.0**	**62925.**	**5400.6**
Stddev	.8	6.1	158.	4.3
%RSD	.02655	.18950	.25153	.07906
#1	3036.3	3196.7	62814.	5403.7
#2	3035.1	3205.3	63037.	5397.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.425%	88.935%	86.037%	93.821%
Range				

Sample Name: MB 480-629583/2-A Acquired: 6/10/2022 21:37:27 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00685**	**-.00131**	**.00092**	**.00004**
Stddev	.00089	.01767	.00179	.00016	.00000
%RSD	149.49	257.74	136.36	16.900	.07222
#1	-.00003	.01935	-.00258	.00081	.00004
#2	.00122	-.00564	-.00005	.00103	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.03748**	**-.00001**	**.2329**	**.00006**
Stddev	.00004	.00053	.00004	.2531	.00005
%RSD	62.757	1.4190	539.96	108.7	85.931
#1	.00010	.03786	.00002	.0539	.00002
#2	.00004	.03710	-.00004	.4118	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**-.00055**	F **.05273**	**.04057**	**-.00155**
Stddev	.00050	.00012	.00014	.01247	.00121
%RSD	483140.	21.122	.27264	30.747	78.011
#1	-.00036	-.00063	.05283	.04939	-.00241
#2	.00036	-.00047	.05263	.03175	-.00070
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			.05000		
Low Limit			-.04000		

Sample Name: MB 480-629583/2-A Acquired: 6/10/2022 21:37:27 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00377**	**.00045**	**-.00074**	**.23829**	**.00028**
Stddev	.00241	.00000	.00026	.00521	.00002
%RSD	64.042	1.1064	34.842	2.1846	5.9991
#1	.00206	.00045	-.00092	.24197	.00026
#2	.00547	.00045	-.00056	.23461	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00104**	**.00644**	**-.00309**	**-.00400**
Stddev	.00	.00024	.00136	.00063	.00193
%RSD	.0022	22.781	21.112	20.380	48.203
#1	25.00	.00088	.00548	-.00354	-.00536
#2	25.00	.00121	.00741	-.00264	-.00264
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02453**	**.00006**	**.00008**	**1.001**	**-.00001**
Stddev	.00366	.00053	.00002	.002	.00003
%RSD	14.929	906.93	28.094	.1967	198.93
#1	.02712	.00043	.00009	1.0000	-.00003
#2	.02194	-.00031	.00006	1.003	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629583/2-A Acquired: 6/10/2022 21:37:27 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.00011**	**-.00127**	**.9994**
Stddev	.00003	.00030	.00035	.0005
%RSD	14.064	274.42	27.653	.0498
#1	-.00022	.00032	-.00102	.9990
#2	-.00018	-.00010	-.00152	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4001.0**	**3638.1**	**73973.**	**5620.7**
Stddev	.1	.0	37.	4.7
%RSD	.00318	.00068	.04962	.08309
#1	4001.0	3638.1	73999.	5624.0
#2	4000.9	3638.1	73947.	5617.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.407%	101.08%	101.14%	97.644%
Range				

Sample Name: LCS 480-629583/3-A Acquired: 6/10/2022 21:41:20 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96975**	**.01856**	**1.0513**	**.01638**	**.97959**
Stddev	.00110	.02148	.0052	.00007	.00067
%RSD	.11299	115.73	.49052	.42037	.06829
#1	.96898	.03375	1.0549	.01643	.98006
#2	.97052	.00337	1.0476	.01633	.97912
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97964**	**.10976**	**1.0139**	**.0754**	**1.0267**
Stddev	.00193	.00139	.0003	.0638	.0006
%RSD	.19702	1.2623	.02854	84.66	.06235
#1	.98100	.11074	1.0141	.0303	1.0262
#2	.97827	.10878	1.0137	.1205	1.0271
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93016**	**.98623**	**.02522**	**.89773**	**-.00073**
Stddev	.00119	.00070	.00057	.02587	.00132
%RSD	.12812	.07143	2.2568	2.8820	180.35
#1	.92932	.98673	.02482	.87944	.00020
#2	.93100	.98573	.02562	.91602	-.00166
Check ?	Chk Pass	Chk Pass	None	None	None
High Limit					
Low Limit					

Sample Name: LCS 480-629583/3-A Acquired: 6/10/2022 21:41:20 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00914**	**.97593**	**.96905**	**1447.6**	**.98584**
Stddev	.00546	.00110	.00205	3.4	.00027
%RSD	59.765	.11273	.21188	.23307	.02736
#1	.01300	.97515	.97051	1449.9	.98565
#2	.00528	.97671	.96760	1445.2	.98603
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.01**	**.99971**	**.01789**	**.95658**	**1.0338**
Stddev	.00	.00231	.00104	.00134	.0040
%RSD	.0035	.23106	5.7968	.14049	.38194
#1	25.01	1.0013	.01863	.95753	1.0366
#2	25.01	.99807	.01716	.95563	1.0310
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit	1.200				
Low Limit	.8000				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02532**	**.00127**	**.09647**	**1.004**	**-.00139**
Stddev	.00244	.00018	.00001	.002	.00007
%RSD	9.6448	14.179	.00627	.1965	5.3433
#1	.02359	.00140	.09646	1.002	-.00144
#2	.02705	.00115	.09647	1.005	-.00134
Check ?	None	None	None	Chk Pass	None
High Limit					
Low Limit					

Sample Name: LCS 480-629583/3-A Acquired: 6/10/2022 21:41:20 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.96128**	**.96457**	**1.0406**	**.9991**
Stddev	.00026	.00148	.0022	.0004
%RSD	.02670	.15381	.21298	.0378
#1	.96146	.96561	1.0391	.9988
#2	.96109	.96352	1.0422	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3062.8**	**3226.6**	**63490.**	**5421.0**
Stddev	6.1	6.6	.	5.8
%RSD	.20066	.20445	.00055	.10638
#1	3058.4	3221.9	63490.	5425.1
#2	3067.1	3231.2	63490.	5416.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.098%	89.645%	86.809%	94.175%
Range				

Sample Name: CCV-7024752 Acquired: 6/10/2022 21:45:15 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95603**	**49.908**	**1.0096**	**1.0488**	**1.0480**
Stddev	.00064	.036	.0018	.0007	.0028
%RSD	.06698	.07293	.18091	.06458	.26573
#1	.95648	49.933	1.0109	1.0483	1.0500
#2	.95557	49.882	1.0083	1.0493	1.0460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0251**	**50.112**	**1.0291**	**1.056**	**1.0322**
Stddev	.0046	.247	.0006	.027	.0002
%RSD	.45382	.49319	.06216	2.569	.02284
#1	1.0284	50.287	1.0296	1.037	1.0321
#2	1.0218	49.938	1.0287	1.076	1.0324
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98660**	**.98456**	**51.807**	**51.748**	**.99659**
Stddev	.00304	.00105	.409	.232	.00460
%RSD	.30789	.10645	.78927	.44768	.46196
#1	.98875	.98530	52.097	51.912	.99985
#2	.98445	.98381	51.518	51.585	.99333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 21:45:15 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.853**	**1.0035**	**1.0135**	**51.401**	**1.0126**
Stddev	.043	.0008	.0017	.119	.0013
%RSD	.08767	.08234	.16320	.23201	.12646
#1	48.883	1.0041	1.0147	51.486	1.0117
#2	48.822	1.0029	1.0123	51.317	1.0135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.10**	**1.0283**	**25.464**	**.98014**	**.99488**
Stddev	.02	.0020	.036	.00272	.00377
%RSD	.0557	.19585	.14238	.27755	.37873
#1	38.11	1.0269	25.490	.97821	.99755
#2	38.08	1.0297	25.438	.98206	.99222
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8963**	**1.0309**	**1.0157**	**1.523**	**.99133**
Stddev	.0602	.0022	.0043	.003	.00132
%RSD	.60854	.21180	.42539	.2126	.13285
#1	9.9389	1.0324	1.0187	1.521	.99226
#2	9.8537	1.0293	1.0126	1.525	.99040
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 21:45:15 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0338**	**.99533**	**1.0628**	**1.512**
Stddev	.0007	.00067	.0008	.004
%RSD	.07071	.06766	.07414	.2388
#1	1.0333	.99485	1.0622	1.515
#2	1.0343	.99581	1.0633	1.509
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3402.8**	**3423.2**	**68489.**	**5331.6**
Stddev	6.4	2.1	35.	6.5
%RSD	.18742	.06259	.05165	.12166
#1	3407.3	3424.7	68464.	5327.0
#2	3398.2	3421.7	68514.	5336.2

Sample Name: CCB-7026764 Acquired: 6/10/2022 21:48:56 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.02520**	**.00127**	**.00069**	**.00004**
Stddev	.00045	.00751	.00023	.00016	.00002
%RSD	582.18	29.807	17.883	23.297	43.742
#1	.00039	.01989	.00143	.00080	.00005
#2	-.00024	.03051	.00111	.00057	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**-.00095**	**-.00004**	**.0763**	**.00011**
Stddev	.00002	.00251	.00000	.0353	.00010
%RSD	16.106	264.22	4.7350	46.21	87.977
#1	.00009	-.00273	-.00004	.1012	.00004
#2	.00011	.00083	-.00004	.0514	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**-.00018**	**.00429**	**.02702**	**-.00057**
Stddev	.00026	.00013	.00165	.00373	.00000
%RSD	101.38	71.713	38.471	13.813	.08841
#1	.00044	-.00028	.00312	.02438	-.00057
#2	.00007	-.00009	.00545	.02966	-.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 21:48:56 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00112**	**.00007**	**.00229**	**.10164**	**.00033**
Stddev	.00418	.00002	.00047	.00121	.00006
%RSD	374.77	23.603	20.751	1.1937	18.367
#1	-.00407	.00006	.00195	.10250	.00037
#2	.00184	.00008	.00262	.10078	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00038**	**.00876**	**.00126**	**.00211**
Stddev	.00	.00136	.00192	.00247	.00168
%RSD	.0027	361.30	21.937	196.19	79.289
#1	25.00	-.00134	.00740	-.00049	.00330
#2	25.00	.00058	.01012	.00301	.00093
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01911**	**-.00012**	**-.00013**	**1.001**	**.00022**
Stddev	.00619	.00043	.00004	.003	.00026
%RSD	32.400	353.05	27.788	.2536	118.01
#1	-.02349	-.00043	-.00015	.9997	.00004
#2	-.01473	.00018	-.00010	1.003	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 21:48:56 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00007**	**-.00098**	**.9990**
Stddev	.00011	.00009	.00005	.0002
%RSD	101.15	136.13	5.1365	.0238
#1	.00003	.00000	-.00102	.9989
#2	.00019	.00013	-.00095	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4026.7**	**3646.3**	**74103.**	**5532.5**
Stddev	5.1	1.9	337.	.9
%RSD	.12584	.05278	.45457	.01569
#1	4023.1	3644.9	73865.	5533.1
#2	4030.3	3647.6	74341.	5531.9

Sample Name: CCVL-7028546 Acquired: 6/10/2022 21:52:50 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00598**	**.17168**	**.01201**	**.01956**	**.00211**
Stddev	.00006	.00734	.00248	.00013	.00003
%RSD	1.0842	4.2741	20.649	.66433	1.2874
#1	.00603	.16649	.01026	.01946	.00213
#2	.00594	.17687	.01376	.01965	.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**.49250**	**.00192**	**.1697**	**.00383**
Stddev	.00002	.00103	.00023	.0482	.00017
%RSD	1.1795	.20958	12.223	28.43	4.4270
#1	.00208	.49177	.00208	.2038	.00371
#2	.00205	.49323	.00175	.1356	.00395
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00403**	**.00971**	**.05142**	**.49635**	**.02704**
Stddev	.00020	.00058	.00010	.00303	.00006
%RSD	4.9293	6.0230	.19360	.61098	.22036
#1	.00389	.00930	.05149	.49849	.02708
#2	.00417	.01012	.05135	.49420	.02700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/10/2022 21:52:50 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18401**	**.00326**	**.00953**	**1.0365**	**.00929**
Stddev	.00115	.00003	.00046	.0060	.00016
%RSD	.62520	.90834	4.8686	.58329	1.7029
#1	.18483	.00328	.00920	1.0408	.00918
#2	.18320	.00324	.00986	1.0322	.00940
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01006**	**.19072**	**.01731**	**.01856**
Stddev	.00	.00043	.00908	.00048	.00483
%RSD	.0034	4.3228	4.7601	2.7905	26.019
#1	25.00	.00975	.18430	.01765	.02198
#2	25.00	.01036	.19714	.01697	.01515
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45591**	**.00906**	**.00483**	F **1.005**	**.00436**
Stddev	.00614	.00066	.00012	.004	.00005
%RSD	1.3464	7.2547	2.3810	.4080	1.1082
#1	.45157	.00859	.00475	1.002	.00439
#2	.46025	.00952	.00491	1.008	.00433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/10/2022 21:52:50 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02023**	**.00459**	**.00790**	F **.9996**
Stddev	.00008	.00000	.00053	.0006
%RSD	.38029	.00099	6.7073	.0552
#1	.02018	.00459	.00753	.9992
#2	.02029	.00459	.00828	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4011.4**	**3642.9**	**74214.**	**5526.3**
Stddev	2.9	1.8	366.	.3
%RSD	.07122	.04817	.49353	.00582
#1	4013.5	3641.7	73955.	5526.5
#2	4009.4	3644.2	74473.	5526.0

Sample Name: 480-198691-A-3-I Acquired: 6/10/2022 21:56:42 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.03507**	**.07032**	**.14416**	**.01317**
Stddev	.00053	.00225	.00113	.00060	.00001
%RSD	323.63	6.4104	1.6087	.41557	.08585
#1	.00021	.03666	.06952	.14374	.01318
#2	-.00054	.03348	.07112	.14458	.01316
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**52.303**	**.00052**	**.1530**	**.00267**
Stddev	.00003	.066	.00003	.0757	.00010
%RSD	11.257	.12706	6.4061	49.48	3.5925
#1	.00033	52.349	.00049	.2065	.00273
#2	.00029	52.256	.00054	.0994	.00260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01095**	**.00428**	**1.0018**	**12.921**	**.94789**
Stddev	.00041	.00028	.0033	.026	.00179
%RSD	3.7117	6.5936	.32875	.20266	.18932
#1	.01123	.00448	1.0041	12.940	.94916
#2	.01066	.00408	.99949	12.903	.94662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198691-A-3-I Acquired: 6/10/2022 21:56:42 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.7093**	**.40765**	**.00484**	F **1474.9**	**.02724**
Stddev	.0042	.00047	.00024	2.6	.00017
%RSD	.24312	.11506	4.9280	.17354	.61572
#1	1.7063	.40732	.00467	1476.7	.02736
#2	1.7122	.40798	.00501	1473.0	.02712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**322.3**	**.00152**	**13.094**	**.00237**	**-.00730**
Stddev	.1	.00064	.005	.00119	.00051
%RSD	.0275	42.120	.03839	50.301	6.9247
#1	322.2	.00107	13.090	.00321	-.00694
#2	322.4	.00197	13.097	.00152	-.00765
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37114**	**.00064**	**.06087**	**1.000**	**-.00024**
Stddev	.01190	.00021	.00002	.003	.00016
%RSD	3.2058	33.695	.03566	.3233	64.550
#1	.36273	.00049	.06088	.9977	-.00036
#2	.37956	.00079	.06085	1.002	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198691-A-3-I Acquired: 6/10/2022 21:56:42 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00035**	**6.9153**	**.9991**
Stddev	.00071	.00015	.0137	.0001
%RSD	271.89	44.162	.19865	.0120
#1	.00076	.00024	6.9055	.9990
#2	-.00024	.00046	6.9250	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3018.8**	**3195.4**	**63630.**	**5478.1**
Stddev	4.4	.3	91.	4.0
%RSD	.14592	.00890	.14349	.07258
#1	3015.7	3195.6	63694.	5475.3
#2	3021.9	3195.2	63565.	5480.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.004%	88.781%	87.000%	95.167%
Range				

Sample Name: 480-198745-A-1-D Acquired: 6/10/2022 22:00:36 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.09815**	**.00498**	**.18591**	**.19678**
Stddev	.00050	.01731	.00401	.00006	.00001
%RSD	109.58	17.637	80.639	.03093	.00662
#1	.00080	.11039	.00782	.18587	.19679
#2	.00010	.08591	.00214	.18595	.19677
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**668.48**	**.00486**	**.2805**	**.03310**
Stddev	.00011	.88	.00011	.0438	.00016
%RSD	89.583	.13102	2.1681	15.62	.48890
#1	.00021	667.86	.00493	.2495	.03299
#2	.00005	669.10	.00478	.3115	.03322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00276**	**.00899**	**.66827**	**7.2729**	**.01761**
Stddev	.00009	.00052	.00220	.0142	.00010
%RSD	3.1369	5.8007	.32882	.19468	.59161
#1	.00270	.00862	.66983	7.2629	.01754
#2	.00282	.00936	.66672	7.2829	.01768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198745-A-1-D Acquired: 6/10/2022 22:00:36 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.083**	**3.3124**	**.00400**	F **1517.4**	**.11856**
Stddev	.007	.0040	.00007	1.5	.00015
%RSD	.04681	.11924	1.6955	.10037	.12976
#1	15.088	3.3151	.00395	1518.5	.11867
#2	15.078	3.3096	.00405	1516.3	.11845
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.07**	**.01545**	**25.327**	**.00217**	**-.00963**
Stddev	.00	.00030	.034	.00119	.00392
%RSD	.0046	1.9719	.13289	54.950	40.695
#1	25.07	.01523	25.351	.00302	-.00686
#2	25.07	.01566	25.304	.00133	-.01241
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.8277**	**.00013**	**1.2402**	**1.003**	**.01682**
Stddev	.0111	.00019	.0027	.002	.00109
%RSD	.39071	148.33	.21463	.1528	6.4554
#1	2.8199	.00026	1.2420	1.004	.01758
#2	2.8355	-.00001	1.2383	1.002	.01605
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198745-A-1-D Acquired: 6/10/2022 22:00:36 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00151**	**.00052**	**4.9911**	**.9991**
Stddev	.00197	.00033	.0182	.0003
%RSD	130.38	62.734	.36425	.0270
#1	.00290	.00075	5.0040	.9993
#2	.00012	.00029	4.9783	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2832.3**	**3036.1**	**61207.**	**5316.2**
Stddev	1.6	3.6	137.	5.4
%RSD	.05552	.11919	.22397	.10169
#1	2833.4	3038.7	61110.	5312.4
#2	2831.2	3033.5	61304.	5320.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.371%	84.354%	83.687%	92.354%
Range				

Sample Name: 480-198762-A-1-C Acquired: 6/10/2022 22:04:34 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.53951**	**-.00161**	**.11544**	**.39508**
Stddev	.00011	.01457	.00023	.00086	.00195
%RSD	104.29	2.7000	14.124	.74320	.49443
#1	-.00003	.52921	-.00177	.11483	.39370
#2	-.00018	.54981	-.00145	.11605	.39646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00141**	**416.07**	**.00604**	**.1182**	**.01234**
Stddev	.00005	.07	.00015	.0326	.00001
%RSD	3.6756	.01794	2.5295	27.56	.06851
#1	.00144	416.01	.00593	.1413	.01233
#2	.00137	416.12	.00615	.0952	.01234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06382**	**.03978**	**7.7727**	**4.7114**	**.14322**
Stddev	.00083	.00026	.0069	.0223	.00019
%RSD	1.3055	.65640	.08912	.47384	.13118
#1	.06441	.03959	7.7678	4.7272	.14309
#2	.06323	.03996	7.7776	4.6956	.14336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198762-A-1-C Acquired: 6/10/2022 22:04:34 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.312**	**4.1401**	**-.00059**	F **3554.2**	**.04466**
Stddev	.075	.0072	.00005	.3	.00014
%RSD	.14288	.17387	8.2316	.00929	.31449
#1	52.365	4.1350	-.00063	3554.0	.04476
#2	52.259	4.1452	-.00056	3554.5	.04456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.01663**	**50.541**	**.00116**	**-.01147**
Stddev	.00	.00040	.123	.00091	.00262
%RSD	.0009	2.4042	.24254	78.124	22.814
#1	25.01	.01635	50.628	.00180	-.00962
#2	25.01	.01692	50.455	.00052	-.01332
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6758**	**.00250**	**1.1455**	**1.002**	**.00263**
Stddev	.0072	.00001	.0017	.004	.00051
%RSD	.43188	.58707	.14985	.3701	19.291
#1	1.6707	.00249	1.1443	1.005	.00299
#2	1.6809	.00251	1.1467	.9995	.00227
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198762-A-1-C Acquired: 6/10/2022 22:04:34 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00072**	**.00025**	**.46152**	**.9990**
Stddev	.00107	.00020	.00270	.0003
%RSD	147.48	78.771	.58523	.0269
#1	-.00003	.00039	.46343	.9992
#2	.00148	.00011	.45961	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2600.8**	**2966.8**	**59200.**	**5354.1**
Stddev	6.0	3.9	10.	1.9
%RSD	.22944	.13281	.01739	.03513
#1	2596.6	2964.0	59193.	5352.8
#2	2605.0	2969.6	59208.	5355.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	64.619%	82.428%	80.944%	93.013%
Range				

Sample Name: 480-198762-A-2-K Acquired: 6/10/2022 22:08:44 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00070**	**2.4708**	**.00460**	**.12252**	**.31391**
Stddev	.00074	.0191	.00044	.00075	.00068
%RSD	105.46	.77286	9.4615	.61177	.21506
#1	-.00018	2.4843	.00429	.12305	.31439
#2	-.00122	2.4573	.00491	.12199	.31343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00542**	**93.941**	**.00562**	**.0009**	**.00923**
Stddev	.00009	.134	.00005	.0408	.00026
%RSD	1.6006	.14257	.90549	4698.	2.8625
#1	.00536	94.036	.00558	.0298	.00904
#2	.00548	93.847	.00566	-.0280	.00941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09324**	**.01893**	**7.3539**	**6.8406**	**.33172**
Stddev	.00014	.00003	.0088	.0008	.00351
%RSD	.14558	.14861	.11977	.01208	1.0572
#1	.09314	.01891	7.3601	6.8400	.32924
#2	.09333	.01895	7.3477	6.8412	.33420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198762-A-2-K Acquired: 6/10/2022 22:08:44 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.423**	**5.5034**	**-.00142**	F **1511.2**	**.06343**
Stddev	.032	.0214	.00027	.7	.00003
%RSD	.14812	.38792	19.045	.04634	.04905
#1	21.400	5.4883	-.00161	1511.7	.06345
#2	21.445	5.5185	-.00123	1510.7	.06341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00486**	**26.281**	**.00035**	**-.01420**
Stddev	.00	.00058	.048	.00378	.00152
%RSD	.0024	11.937	.18422	1076.9	10.673
#1	25.01	.00527	26.316	-.00232	-.01527
#2	25.01	.00445	26.247	.00302	-.01313
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.6527**	**.00041**	**.84524**	**1.006**	**.00097**
Stddev	.0027	.00001	.00031	.003	.00013
%RSD	.10094	2.9262	.03679	.3078	13.370
#1	2.6546	.00040	.84546	1.008	.00106
#2	2.6508	.00041	.84502	1.004	.00088
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198762-A-2-K Acquired: 6/10/2022 22:08:44 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00378**	**-.00011**	**1.2106**	**.9994**
Stddev	.00032	.00002	.0009	.0005
%RSD	8.4404	17.989	.07713	.0505
#1	-.00401	-.00009	1.2099	.9990
#2	-.00355	-.00012	1.2113	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2983.7**	**3342.0**	**66322.**	**5705.3**
Stddev	.1	.4	38.	15.5
%RSD	.00232	.01221	.05789	.27116
#1	2983.8	3341.7	66295.	5694.4
#2	2983.7	3342.3	66349.	5716.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.133%	92.852%	90.681%	99.114%
Range				

Sample Name: 480-198762-A-2-Ksd@5 Acquired: 6/10/2022 22:12:49 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.50855**	**.00124**	**.02605**	**.06868**
Stddev	.00007	.00465	.00167	.00043	.00004
%RSD	26.733	.91444	134.91	1.6494	.06334
#1	.00029	.51184	.00242	.02574	.06871
#2	.00020	.50526	.00006	.02635	.06864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00123**	**20.260**	**.00102**	**.1928**	**.00174**
Stddev	.00006	.074	.00004	.0628	.00006
%RSD	4.7469	.36337	4.1278	32.55	3.6106
#1	.00127	20.312	.00105	.1485	.00170
#2	.00118	20.208	.00099	.2372	.00179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01987**	**.00335**	**1.5885**	**1.3654**	**.06602**
Stddev	.00030	.00078	.0056	.0303	.00030
%RSD	1.5265	23.134	.35493	2.2220	.44719
#1	.01966	.00280	1.5925	1.3869	.06623
#2	.02008	.00390	1.5845	1.3440	.06581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198762-A-2-Ksd@5 Acquired: 6/10/2022 22:12:49 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.6616**	**1.1990**	**-.00158**	**317.89**	**.01300**
Stddev	.0142	.0014	.00019	1.94	.00017
%RSD	.30449	.11772	12.010	.60983	1.3253
#1	4.6716	1.2000	-.00172	319.26	.01312
#2	4.6516	1.1980	-.00145	316.52	.01288
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00143**	**5.2892**	**-.00119**	**-.01129**
Stddev	.00	.00062	.0084	.00043	.00097
%RSD	.0022	43.316	.15880	36.445	8.6305
#1	25.00	.00187	5.2952	-.00150	-.01060
#2	25.00	.00099	5.2833	-.00089	-.01198
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.55192**	**-.00127**	**.17826**	**1.001**	**-.00041**
Stddev	.02075	.00058	.00024	.004	.00009
%RSD	3.7597	45.582	.13485	.3872	20.946
#1	.56660	-.00086	.17843	1.004	-.00035
#2	.53725	-.00168	.17809	.9982	-.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198762-A-2-Ksd@5 Acquired: 6/10/2022 22:12:49 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00017**	**.00000**	**.25711**	**.9993**
Stddev	.00024	.00019	.00190	.0005
%RSD	144.09	9723.3	.73913	.0459
#1	.00034	-.00013	.25845	.9996
#2	-.00000	.00013	.25576	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3420.2**	**3460.6**	**69309.**	**5549.6**
Stddev	.0	1.1	174.	32.4
%RSD	.00020	.03236	.25173	.58372
#1	3420.2	3459.8	69186.	5526.7
#2	3420.3	3461.4	69432.	5572.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.979%	96.148%	94.765%	96.410%
Range				

Sample Name: 480-198762-A-2-KPDS Acquired: 6/10/2022 22:16:44 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97024**	**2.4713**	**1.0502**	**.12176**	**1.2857**
Stddev	.00082	.0164	.0000	.00022	.0038
%RSD	.08448	.66387	.00401	.17852	.29342
#1	.97082	2.4597	1.0501	.12161	1.2884
#2	.96967	2.4829	1.0502	.12192	1.2831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98793**	**93.398**	**1.0087**	**.0326**	**1.0760**
Stddev	.00233	.150	.0023	.1293	.0016
%RSD	.23616	.16067	.22756	397.0	.14472
#1	.98958	93.504	1.0104	-.0589	1.0771
#2	.98628	93.291	1.0071	.1240	1.0749
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0037**	**1.0034**	**7.3462**	**6.6858**	**.32851**
Stddev	.0004	.0024	.0288	.0218	.00047
%RSD	.04113	.23675	.39177	.32668	.14306
#1	1.0034	1.0051	7.3665	6.6704	.32884
#2	1.0040	1.0018	7.3258	6.7013	.32817
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198762-A-2-KPDS Acquired: 6/10/2022 22:16:44 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.195**	**6.4298**	**.95922**	F **1505.2**	**1.0891**
Stddev	.023	.0149	.00555	4.3	.0022
%RSD	.10634	.23172	.57870	.28615	.20097
#1	21.179	6.4193	.96315	1508.3	1.0906
#2	21.211	6.4404	.95530	1502.2	1.0875
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**1.0413**	**26.181**	**.96397**	**1.0301**
Stddev	.00	.0016	.041	.00866	.0039
%RSD	.0022	.15172	.15697	.89861	.38182
#1	25.01	1.0424	26.210	.97010	1.0273
#2	25.01	1.0402	26.152	.95785	1.0329
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.6152**	**.00081**	**.84305**	**1.008**	**.00018**
Stddev	.0222	.00022	.00339	.005	.00002
%RSD	.84758	27.391	.40157	.4680	10.422
#1	2.6309	.00066	.84544	1.005	.00016
#2	2.5996	.00097	.84065	1.011	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198762-A-2-KPDS Acquired: 6/10/2022 22:16:44 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.99400**	**.95713**	**2.1928**	**.9989**
Stddev	.00073	.00095	.0011	.0006
%RSD	.07332	.09879	.05081	.0599
#1	.99452	.95646	2.1920	.9985
#2	.99349	.95780	2.1936	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2965.0**	**3337.1**	**66368.**	**5688.9**
Stddev	2.9	4.5	66.	3.7
%RSD	.09796	.13430	.10008	.06558
#1	2962.9	3334.0	66321.	5686.3
#2	2967.0	3340.3	66415.	5691.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.668%	92.717%	90.743%	98.829%
Range				

Sample Name: 480-198762-A-2-L MS Acquired: 6/10/2022 22:20:41 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.91018**	**2.5672**	**.98374**	**.12681**	**1.2519**
Stddev	.00107	.0348	.00358	.00033	.0046
%RSD	.11771	1.3569	.36411	.25909	.36381
#1	.90942	2.5918	.98627	.12704	1.2487
#2	.91094	2.5425	.98121	.12658	1.2551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93602**	**97.563**	**.94977**	**.0588**	**1.0166**
Stddev	.00237	.173	.00185	.0440	.0015
%RSD	.25315	.17752	.19483	74.83	.14850
#1	.93434	97.440	.95108	.0899	1.0176
#2	.93769	97.685	.94846	.0277	1.0155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95370**	**.94269**	**7.6511**	**7.1079**	**.34672**
Stddev	.00189	.00030	.0321	.0343	.00256
%RSD	.19814	.03218	.41979	.48191	.73819
#1	.95503	.94291	7.6283	7.0837	.34491
#2	.95236	.94248	7.6738	7.1322	.34853
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198762-A-2-L MS Acquired: 6/10/2022 22:20:41 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.082**	**6.5742**	**.89955**	F **1575.2**	**1.0322**
Stddev	.040	.0223	.00212	2.3	.0007
%RSD	.18198	.33902	.23580	.14451	.06879
#1	22.110	6.5899	.90105	1573.6	1.0327
#2	22.053	6.5584	.89805	1576.8	1.0317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.98430**	**27.259**	**.91021**	**.96500**
Stddev	.00	.00143	.022	.00203	.00638
%RSD	.0012	.14526	.07891	.22261	.66134
#1	25.02	.98329	27.275	.91165	.96951
#2	25.01	.98531	27.244	.90878	.96049
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.7416**	**.00075**	**.96869**	**1.005**	**-.00042**
Stddev	.0023	.00120	.00141	.003	.00064
%RSD	.08530	160.63	.14531	.2643	152.52
#1	2.7433	-.00010	.96769	1.007	-.00087
#2	2.7400	.00160	.96969	1.004	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198762-A-2-L MS Acquired: 6/10/2022 22:20:41 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.93820**	**.89771**	**2.1879**	**.9996**
Stddev	.00147	.00005	.0088	.0013
%RSD	.15712	.00566	.40421	.1261
#1	.93924	.89775	2.1942	1.000
#2	.93716	.89768	2.1817	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2948.4**	**3337.5**	**66174.**	**5651.9**
Stddev	.1	2.6	234.	14.8
%RSD	.00417	.07825	.35391	.26250
#1	2948.3	3335.7	66008.	5662.4
#2	2948.5	3339.4	66340.	5641.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.257%	92.729%	90.479%	98.186%
Range				

Sample Name: 480-198762-A-2-M MSD Acquired: 6/10/2022 22:24:39 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.88832**	**2.4992**	**.96369**	**.12407**	**1.2200**
Stddev	.00047	.0100	.00323	.00074	.0013
%RSD	.05344	.39950	.33559	.59290	.10264
#1	.88799	2.4921	.96597	.12355	1.2191
#2	.88866	2.5062	.96140	.12459	1.2209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.91013**	**94.763**	**.92802**	**-.0833**	**.99233**
Stddev	.00029	.059	.00119	.2348	.00017
%RSD	.03221	.06225	.12803	282.0	.01713
#1	.90992	94.805	.92886	-.2493	.99221
#2	.91034	94.722	.92718	.0827	.99245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93784**	**.92533**	**7.4460**	**6.9139**	**.33776**
Stddev	.00073	.00044	.0209	.0093	.00215
%RSD	.07736	.04750	.28100	.13452	.63661
#1	.93733	.92564	7.4608	6.9204	.33928
#2	.93835	.92502	7.4312	6.9073	.33624
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198762-A-2-M MSD Acquired: 6/10/2022 22:24:39 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.601**	**6.4451**	**.88349**	F **1532.1**	**1.0083**
Stddev	.016	.0144	.00228	1.0	.0010
%RSD	.07529	.22394	.25862	.06835	.09446
#1	21.612	6.4553	.88511	1532.8	1.0076
#2	21.589	6.4349	.88188	1531.3	1.0089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.96015**	**26.654**	**.89094**	**.95534**
Stddev	.00	.00132	.004	.00286	.00011
%RSD	.0005	.13797	.01584	.32050	.01129
#1	25.01	.96109	26.651	.89296	.95541
#2	25.01	.95922	26.657	.88893	.95526
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.6605**	**.00127**	**.94419**	**1.009**	**-.00015**
Stddev	.0075	.00024	.00103	.001	.00046
%RSD	.28005	19.143	.10944	.0596	304.03
#1	2.6657	.00144	.94492	1.010	-.00048
#2	2.6552	.00110	.94346	1.009	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198762-A-2-M MSD Acquired: 6/10/2022 22:24:39 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.91595**	**.88113**	**2.1409**	**.9993**
Stddev	.00092	.00043	.0058	.0005
%RSD	.09990	.04850	.27230	.0500
#1	.91660	.88083	2.1451	.9989
#2	.91531	.88143	2.1368	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2957.7**	**3337.3**	**66081.**	**5686.7**
Stddev	1.3	.9	180.	4.7
%RSD	.04407	.02644	.27184	.08181
#1	2958.6	3336.6	65954.	5683.5
#2	2956.7	3337.9	66208.	5690.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.486%	92.721%	90.351%	98.791%
Range				

Sample Name: 480-198762-A-3-C Acquired: 6/10/2022 22:28:36 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.69110**	**.00332**	**.11128**	**.10995**
Stddev	.00069	.01894	.00147	.00032	.00010
%RSD	481.79	2.7407	44.173	.28447	.09240
#1	.00035	.67771	.00229	.11150	.11002
#2	-.00063	.70450	.00436	.11105	.10988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**292.29**	**.01468**	**.0766**	**.02330**
Stddev	.00002	.17	.00021	.2018	.00015
%RSD	10.043	.05947	1.4116	263.5	.66281
#1	.00026	292.17	.01454	.2193	.02319
#2	.00022	292.42	.01483	-.0661	.02341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00951**	**.24417**	**1.5259**	**123.22**	**.02865**
Stddev	.00065	.00197	.0119	.08	.00003
%RSD	6.7985	.80643	.78029	.06827	.10407
#1	.00997	.24556	1.5343	123.16	.02867
#2	.00905	.24278	1.5175	123.28	.02863
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198762-A-3-C Acquired: 6/10/2022 22:28:36 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**39.950**	**1.4012**	**.00212**	F **1743.7**	**.26366**
Stddev	.069	.0004	.00048	1.7	.00057
%RSD	.17243	.02699	22.786	.09649	.21660
#1	39.999	1.4014	.00178	1744.9	.26407
#2	39.901	1.4009	.00246	1742.5	.26326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.02502**	**59.950**	**.00471**	**-.00674**
Stddev	.00	.00041	.025	.00180	.00408
%RSD	.0015	1.6198	.04235	38.235	60.632
#1	25.02	.02530	59.968	.00344	-.00963
#2	25.02	.02473	59.932	.00598	-.00385
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5488**	**.00194**	**.71827**	**.9994**	**.00155**
Stddev	.0002	.00012	.00091	.0020	.00055
%RSD	.00370	6.3831	.12737	.2044	35.217
#1	4.5487	.00202	.71892	.9980	.00116
#2	4.5490	.00185	.71762	1.001	.00194
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198762-A-3-C Acquired: 6/10/2022 22:28:36 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00078**	**2.0221**	**.9997**
Stddev	.00148	.00006	.0027	.0002
%RSD	543.39	7.3070	.13498	.0217
#1	-.00132	.00082	2.0240	.9996
#2	.00078	.00074	2.0202	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2867.2**	**3063.3**	**61247.**	**5300.9**
Stddev	2.6	4.4	137.	17.2
%RSD	.08946	.14342	.22316	.32483
#1	2865.4	3066.4	61150.	5288.8
#2	2869.0	3060.2	61343.	5313.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.237%	85.110%	83.742%	92.089%
Range				

Sample Name: CCV-7024752 Acquired: 6/10/2022 22:32:34 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95511**	**49.768**	**1.0038**	**1.0412**	**1.0368**
Stddev	.00178	.039	.0003	.0031	.0017
%RSD	.18605	.07832	.03132	.29512	.16161
#1	.95637	49.740	1.0040	1.0390	1.0380
#2	.95385	49.795	1.0036	1.0433	1.0356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0177**	**50.018**	**1.0238**	**1.237**	**1.0236**
Stddev	.0016	.069	.0003	.018	.0013
%RSD	.16026	.13790	.02746	1.438	.13084
#1	1.0188	50.066	1.0236	1.225	1.0226
#2	1.0165	49.969	1.0240	1.250	1.0245
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98286**	**.98095**	**51.671**	**51.847**	**1.0019**
Stddev	.00019	.00048	.234	.099	.0004
%RSD	.01959	.04860	.45364	.19075	.04389
#1	.98299	.98061	51.837	51.917	1.0016
#2	.98272	.98128	51.505	51.777	1.0022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 22:32:34 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.662**	**.99958**	**1.0068**	**51.282**	**1.0079**
Stddev	.049	.00027	.0003	.060	.0001
%RSD	.10134	.02654	.02575	.11633	.00891
#1	48.697	.99977	1.0070	51.324	1.0078
#2	48.627	.99939	1.0066	51.240	1.0079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.99**	**1.0218**	**25.321**	**.97671**	**.98583**
Stddev	.01	.0010	.004	.00600	.00191
%RSD	.0177	.09472	.01527	.61427	.19382
#1	37.98	1.0211	25.318	.97246	.98718
#2	37.99	1.0225	25.324	.98095	.98448
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8963**	**1.0231**	**1.0105**	**1.514**	**.98722**
Stddev	.0247	.0015	.0010	.004	.00006
%RSD	.24998	.14984	.09659	.2615	.00593
#1	9.9138	1.0242	1.0112	1.517	.98718
#2	9.8788	1.0220	1.0098	1.511	.98727
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 22:32:34 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0217**	**.99170**	**1.0511**	**1.511**
Stddev	.0025	.00076	.0025	.002
%RSD	.24090	.07636	.23979	.1192
#1	1.0199	.99117	1.0493	1.512
#2	1.0234	.99224	1.0529	1.509
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3436.5**	**3454.6**	**69494.**	**5374.8**
Stddev	9.6	10.7	48.	10.0
%RSD	.27959	.30882	.06920	.18545
#1	3443.3	3462.1	69528.	5381.8
#2	3429.7	3447.0	69460.	5367.7

Sample Name: CCB-7026764 Acquired: 6/10/2022 22:36:14 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.00250**	**.00230**	**.00058**	**.00005**
Stddev	.00046	.00255	.00246	.00015	.00001
%RSD	220.57	101.99	106.74	25.253	22.574
#1	.00053	-.00430	.00056	.00068	.00006
#2	-.00012	-.00070	.00404	.00047	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00331**	**.00002**	**.1128**	**-.00001**
Stddev	.00005	.00175	.00002	.1261	.00021
%RSD	116.45	52.886	104.81	111.8	3322.7
#1	.00001	.00207	.00003	.2019	-.00015
#2	.00008	.00455	.00000	.0236	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**-.00016**	**.00557**	**.10282**	**-.00132**
Stddev	.00022	.00023	.00277	.02316	.00033
%RSD	46.632	142.42	49.699	22.522	24.982
#1	.00032	-.00032	.00361	.08644	-.00109
#2	.00064	.00000	.00752	.11919	-.00155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 22:36:14 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00014**	**.00220**	**.28109**	**-.00007**
Stddev	.00159	.00002	.00040	.00430	.00008
%RSD	40938.	11.895	18.153	1.5292	113.04
#1	.00113	.00015	.00192	.27805	-.00001
#2	-.00112	.00013	.00248	.28413	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00059**	**.00673**	**-.00114**	**.00545**
Stddev	.00	.00045	.00271	.00136	.00375
%RSD	.0001	75.939	40.282	118.50	68.695
#1	25.00	.00091	.00864	-.00210	.00810
#2	25.00	.00028	.00481	-.00019	.00280
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00859**	**.00020**	**-.00006**	**1.005**	**-.00002**
Stddev	.01087	.00015	.00013	.002	.00026
%RSD	126.56	76.914	196.68	.2147	1399.3
#1	-.01628	.00009	.00003	1.006	.00016
#2	-.00090	.00030	-.00015	1.003	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 22:36:14 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00015**	**-.00075**	**.9991**
Stddev	.00062	.00015	.00046	.0005
%RSD	466.38	104.39	61.277	.0521
#1	-.00031	-.00004	-.00108	.9994
#2	.00058	-.00026	-.00043	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4026.3**	**3646.8**	**74651.**	**5514.9**
Stddev	.7	.1	110.	19.4
%RSD	.01839	.00248	.14763	.35167
#1	4025.7	3646.9	74729.	5501.2
#2	4026.8	3646.7	74573.	5528.6

Sample Name: CCVL-7028546 Acquired: 6/10/2022 22:40:08 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00574**	**.18826**	**.01323**	**.01966**	**.00211**
Stddev	.00074	.01685	.00109	.00015	.00004
%RSD	12.845	8.9530	8.2217	.73976	1.8033
#1	.00522	.17634	.01246	.01976	.00214
#2	.00626	.20018	.01400	.01956	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**.47938**	**.00193**	**.1018**	**.00389**
Stddev	.00007	.00069	.00002	.0002	.00006
%RSD	3.2935	.14466	.93507	.2160	1.6476
#1	.00202	.47988	.00191	.1020	.00393
#2	.00211	.47889	.00194	.1017	.00384
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00409**	**.00953**	**.05208**	**.50959**	**.02729**
Stddev	.00011	.00055	.00251	.00467	.00038
%RSD	2.7994	5.7308	4.8202	.91609	1.3748
#1	.00401	.00991	.05386	.50628	.02702
#2	.00417	.00914	.05031	.51289	.02755
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/10/2022 22:40:08 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18315**	**.00323**	**.00954**	**1.1963**	**.00933**
Stddev	.00183	.00001	.00023	.0101	.00013
%RSD	1.0006	.15562	2.4545	.84432	1.3901
#1	.18185	.00323	.00938	1.2034	.00924
#2	.18444	.00322	.00971	1.1891	.00942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00981**	**.19143**	**.01457**	**.01926**
Stddev	.00	.00019	.00172	.00005	.00002
%RSD	.0043	1.9834	.89963	.37660	.09057
#1	25.00	.00967	.19265	.01461	.01924
#2	25.00	.00994	.19021	.01453	.01927
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.43717**	**.00851**	**.00492**	F **.9947**	**.00423**
Stddev	.00295	.00039	.00000	.0045	.00018
%RSD	.67587	4.6307	.06623	.4566	4.1930
#1	.43508	.00823	.00492	.9979	.00435
#2	.43926	.00878	.00492	.9915	.00410
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/10/2022 22:40:08 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01949**	**.00454**	**.00836**	F **.9994**
Stddev	.00060	.00016	.00006	.0001
%RSD	3.0594	3.4473	.73895	.0093
#1	.01992	.00443	.00840	.9994
#2	.01907	.00465	.00831	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4014.9**	**3663.2**	**74539.**	**5531.3**
Stddev	3.4	2.4	203.	17.7
%RSD	.08538	.06491	.27179	.31925
#1	4012.5	3661.5	74396.	5543.8
#2	4017.3	3664.9	74682.	5518.8

Sample Name: MB 480-629588/1-A Acquired: 6/10/2022 22:44:00 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**-.02462**	**-.00009**	**.00028**	**.00002**
Stddev	.00014	.00537	.00192	.00056	.00000
%RSD	59.975	21.827	2029.9	197.94	9.2091
#1	.00033	-.02842	-.00145	.00068	.00002
#2	.00013	-.02082	.00126	-.00011	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00515**	**-.00006**	**.0154**	**-.00005**
Stddev	.00001	.00198	.00001	.0319	.00014
%RSD	7.3912	38.432	24.786	206.4	280.36
#1	.00011	.00375	-.00005	-.0071	-.00015
#2	.00010	.00656	-.00007	.0380	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**-.00054**	**.00180**	**.02666**	**.00030**
Stddev	.00022	.00041	.00123	.04405	.00133
%RSD	55.230	74.797	68.282	165.25	451.22
#1	.00024	-.00083	.00267	-.00449	-.00065
#2	.00055	-.00026	.00093	.05781	.00124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629588/1-A Acquired: 6/10/2022 22:44:00 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00085**	**-.00001**	**-.00091**	**.21157**	**.00026**
Stddev	.00135	.00003	.00025	.00207	.00041
%RSD	159.44	450.09	27.156	.97966	157.35
#1	.00011	-.00002	-.00108	.21010	.00055
#2	-.00180	.00001	-.00073	.21304	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00086**	**.00450**	**-.00057**	**-.00300**
Stddev	.00	.00100	.00623	.00055	.00366
%RSD	.0050	117.29	138.60	96.313	121.83
#1	25.00	.00157	.00890	-.00018	-.00559
#2	25.00	.00015	.00009	-.00095	-.00042
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01487**	**-.00057**	**-.00003**	**1.001**	**-.00022**
Stddev	.00585	.00004	.00004	.004	.00009
%RSD	39.375	7.0496	113.91	.3525	40.480
#1	-.01901	-.00054	-.00001	.9987	-.00028
#2	-.01073	-.00060	-.00006	1.004	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629588/1-A Acquired: 6/10/2022 22:44:00 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00019**	**-.00193**	**.9988**
Stddev	.00010	.00008	.00020	.0004
%RSD	50.626	41.565	10.431	.0360
#1	.00012	.00013	-.00207	.9991
#2	.00026	.00024	-.00179	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4043.0**	**3679.9**	**75086.**	**5630.0**
Stddev	4.7	1.7	28.	6.2
%RSD	.11576	.04627	.03790	.11087
#1	4039.7	3678.7	75106.	5634.4
#2	4046.3	3681.1	75066.	5625.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.45%	102.24%	102.66%	97.805%
Range				

Sample Name: LCS 480-629588/2-A Acquired: 6/10/2022 22:47:53 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04491**	**9.4617**	**.19114**	**.19383**	**.20510**
Stddev	.00080	.0340	.00048	.00028	.00047
%RSD	1.7895	.35897	.25184	.14577	.22786
#1	.04548	9.4857	.19080	.19363	.20543
#2	.04434	9.4377	.19148	.19403	.20477
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20079**	**9.4805**	**.19126**	**.1929**	**.19318**
Stddev	.00112	.0421	.00045	.1171	.00022
%RSD	.55752	.44408	.23377	60.71	.11477
#1	.20158	9.5103	.19158	.2757	.19303
#2	.20000	9.4507	.19095	.1101	.19334
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18606**	**.19030**	**9.8759**	**9.7986**	**.18868**
Stddev	.00044	.00018	.0388	.0506	.00125
%RSD	.23663	.09404	.39240	.51641	.66118
#1	.18637	.19043	9.9033	9.8343	.18956
#2	.18575	.19018	9.8485	9.7628	.18780
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629588/2-A Acquired: 6/10/2022 22:47:53 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4129**	**.19191**	**.19432**	**9.7337**	**.18578**
Stddev	.0082	.00006	.00049	.0342	.00013
%RSD	.08727	.02884	.25060	.35097	.07131
#1	9.4071	.19195	.19466	9.7578	.18587
#2	9.4188	.19187	.19397	9.7095	.18569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.19195**	**9.4038**	**.19132**	**.17985**
Stddev	.00	.00049	.0067	.00117	.00039
%RSD	.0029	.25355	.07113	.61203	.21841
#1	25.00	.19161	9.4085	.19214	.17958
#2	25.00	.19230	9.3990	.19049	.18013
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.0374**	F **.23297**	**.19464**	**1.003**	**.18901**
Stddev	.0047	.00061	.00074	.001	.00027
%RSD	.05234	.26251	.37850	.1405	.14361
#1	9.0407	.23341	.19516	1.002	.18920
#2	9.0340	.23254	.19411	1.004	.18882
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: LCS 480-629588/2-A Acquired: 6/10/2022 22:47:53 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19431**	**.18542**	**.19391**	**1.000**
Stddev	.00002	.00012	.00125	.001
%RSD	.00884	.06343	.64280	.0518
#1	.19430	.18550	.19303	1.000
#2	.19432	.18533	.19479	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3811.7**	**3605.4**	**73403.**	**5588.6**
Stddev	5.4	12.9	3.	36.0
%RSD	.14247	.35644	.00346	.64443
#1	3807.9	3596.3	73401.	5563.2
#2	3815.5	3614.5	73405.	5614.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.705%	100.17%	100.36%	97.087%
Range				

Sample Name: 480-198580-E-1-A Acquired: 6/10/2022 22:51:34 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.00345**	**.00086**	**.02491**	**.01626**
Stddev	.00066	.00524	.00284	.00024	.00000
%RSD	332.86	151.78	329.16	.98065	.01720
#1	.00067	.00025	.00288	.02508	.01626
#2	-.00027	-.00716	-.00115	.02473	.01626
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**72.591**	**.00012**	**.1231**	**.00011**
Stddev	.00001	.164	.00008	.0803	.00020
%RSD	6.4400	.22603	71.256	65.24	182.31
#1	.00010	72.707	.00017	.1798	-.00003
#2	.00011	72.475	.00006	.0663	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**-.00062**	**.06434**	**6.1065**	**.00291**
Stddev	.00023	.00042	.00067	.0267	.00008
%RSD	41.802	67.602	1.0359	.43804	2.6920
#1	.00038	-.00091	.06387	6.1254	.00296
#2	.00071	-.00032	.06481	6.0876	.00285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198580-E-1-A Acquired: 6/10/2022 22:51:34 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.263**	**.04309**	**-.00064**	**2.7960**	**.00049**
Stddev	.013	.00003	.00044	.0059	.00015
%RSD	.05393	.07524	68.184	.21227	31.621
#1	24.253	.04307	-.00095	2.8002	.00060
#2	24.272	.04311	-.00033	2.7918	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00134**	**20.852**	**-.00341**	**-.00610**
Stddev	.00	.00019	.023	.00089	.00213
%RSD	.0084	14.072	.10812	26.014	34.890
#1	25.03	.00148	20.868	-.00278	-.00459
#2	25.03	.00121	20.836	-.00403	-.00760
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.9845**	**-.00077**	**.46743**	**.9988**	**.00016**
Stddev	.0094	.00031	.00077	.0065	.00006
%RSD	.31572	39.697	.16528	.6548	36.244
#1	2.9778	-.00099	.46797	1.003	.00020
#2	2.9911	-.00055	.46688	.9941	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198580-E-1-A Acquired: 6/10/2022 22:51:34 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00034**	**.00070**	**.9997**
Stddev	.00007	.00004	.00013	.0004
%RSD	85.540	10.408	19.100	.0405
#1	.00003	.00032	.00060	1.0000
#2	.00014	.00037	.00079	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3701.7**	**3531.8**	**72281.**	**5538.8**
Stddev	5.5	.8	15.	20.6
%RSD	.14829	.02279	.02119	.37186
#1	3705.6	3531.2	72291.	5524.3
#2	3697.8	3532.4	72270.	5553.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.972%	98.126%	98.828%	96.222%
Range				

Sample Name: 480-198580-E-1-Asd@5 Acquired: 6/10/2022 22:55:24 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.03557**	**.00118**	**.00501**	**.00333**
Stddev	.00069	.01095	.00095	.00020	.00001
%RSD	11936.	30.788	80.902	3.9153	.29376
#1	-.00049	-.04332	.00050	.00487	.00333
#2	.00048	-.02783	.00185	.00515	.00334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**14.837**	**-.00007**	**.0537**	**.00003**
Stddev	.00007	.031	.00003	.1182	.00001
%RSD	81.560	.20588	36.831	220.2	19.211
#1	.00003	14.858	-.00009	-.0299	.00004
#2	.00013	14.815	-.00005	.1373	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**-.00032**	**.01197**	**1.1865**	**-.00044**
Stddev	.00039	.00039	.00030	.0248	.00027
%RSD	548.04	120.05	2.4725	2.0865	61.500
#1	.00021	-.00005	.01176	1.2040	-.00025
#2	-.00035	-.00060	.01218	1.1690	-.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198580-E-1-Asd@5 Acquired: 6/10/2022 22:55:24 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.9259**	**.00877**	**-.00119**	**.69739**	**.00027**
Stddev	.0019	.00001	.00011	.01618	.00016
%RSD	.03748	.09600	8.8605	2.3199	56.562
#1	4.9245	.00876	-.00126	.68595	.00038
#2	4.9272	.00877	-.00111	.70883	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00024**	**4.0884**	**-.00294**	**-.00516**
Stddev	.00	.00051	.0024	.00066	.00117
%RSD	.0050	211.59	.05844	22.408	22.699
#1	25.00	.00060	4.0867	-.00248	-.00599
#2	25.01	-.00012	4.0901	-.00341	-.00433
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.57762**	**-.00083**	**.09517**	**1.004**	**-.00058**
Stddev	.00688	.00033	.00037	.001	.00036
%RSD	1.1908	39.953	.38602	.0809	62.241
#1	.57275	-.00106	.09543	1.004	-.00032
#2	.58248	-.00059	.09491	1.003	-.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198580-E-1-Asd@5 Acquired: 6/10/2022 22:55:24 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00001**	**-.00167**	**.9995**
Stddev	.00025	.00020	.00028	.0002
%RSD	77.194	2864.9	17.051	.0183
#1	-.00049	.00015	-.00187	.9994
#2	-.00014	-.00013	-.00147	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3927.1**	**3620.9**	**73841.**	**5530.8**
Stddev	1.5	1.1	126.	10.0
%RSD	.03878	.02938	.17016	.18169
#1	3928.2	3621.6	73930.	5523.7
#2	3926.0	3620.1	73752.	5537.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.572%	100.60%	100.96%	96.082%
Range				

Sample Name: 480-198580-E-1-APDS Acquired: 6/10/2022 22:59:15 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04704**	**9.8565**	**.20709**	**.22931**	**.22604**
Stddev	.00047	.0251	.00332	.00044	.00040
%RSD	1.0044	.25452	1.6047	.19002	.17506
#1	.04671	9.8742	.20944	.22900	.22576
#2	.04738	9.8387	.20474	.22962	.22631
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21290**	**79.732**	**.20318**	**.1151**	**.20418**
Stddev	.00014	.088	.00002	.0373	.00003
%RSD	.06728	.10990	.00893	32.41	.01665
#1	.21300	79.794	.20317	.0887	.20421
#2	.21279	79.670	.20320	.1415	.20416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19726**	**.20020**	**10.265**	**16.188**	**.20204**
Stddev	.00045	.00083	.000	.006	.00230
%RSD	.22573	.41340	.00070	.04001	1.1381
#1	.19695	.19962	10.265	16.193	.20367
#2	.19758	.20079	10.265	16.184	.20041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198580-E-1-APDS Acquired: 6/10/2022 22:59:15 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.143**	**.24455**	**.20415**	**12.773**	**.19632**
Stddev	.032	.00003	.00020	.032	.00013
%RSD	.09713	.01203	.09865	.25087	.06814
#1	33.120	.24457	.20429	12.795	.19641
#2	33.166	.24453	.20400	12.750	.19622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.20512**	**30.218**	**.19933**	**.18640**
Stddev	.00	.00088	.045	.00122	.00050
%RSD	.0026	.43079	.14729	.61441	.27071
#1	25.03	.20575	30.186	.20019	.18676
#2	25.02	.20450	30.249	.19846	.18605
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.606**	**.20300**	**.65673**	**1.006**	**.19795**
Stddev	.002	.00113	.00011	.003	.00065
%RSD	.01479	.55887	.01671	.3019	.32900
#1	12.605	.20220	.65681	1.008	.19749
#2	12.608	.20381	.65665	1.004	.19841
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198580-E-1-APDS Acquired: 6/10/2022 22:59:15 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20816**	**.19531**	**.20138**	**.9993**
Stddev	.00178	.00012	.00054	.0006
%RSD	.85495	.06272	.26622	.0628
#1	.20690	.19540	.20176	.9989
#2	.20942	.19523	.20100	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3601.2**	**3513.7**	**71750.**	**5520.7**
Stddev	.1	2.5	52.	9.4
%RSD	.00347	.07256	.07284	.17035
#1	3601.3	3515.5	71787.	5514.1
#2	3601.1	3511.9	71713.	5527.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.475%	97.622%	98.103%	95.907%
Range				

Sample Name: 480-198580-E-1-B MS Acquired: 6/10/2022 23:02:55 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04508**	**9.4978**	**.19535**	**.21718**	**.21778**
Stddev	.00134	.0242	.00041	.00005	.00026
%RSD	2.9787	.25443	.20929	.02345	.12068
#1	.04413	9.5149	.19506	.21722	.21796
#2	.04603	9.4807	.19564	.21715	.21759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20060**	**78.249**	**.19152**	**.2796**	**.19301**
Stddev	.00031	.159	.00017	.2004	.00008
%RSD	.15535	.20367	.08736	71.68	.04178
#1	.20082	78.362	.19140	.1379	.19307
#2	.20037	78.137	.19164	.4213	.19295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18408**	**.18857**	**9.8540**	**15.630**	**.19470**
Stddev	.00112	.00097	.0111	.042	.00162
%RSD	.61083	.51342	.11291	.26693	.82984
#1	.18329	.18925	9.8619	15.659	.19356
#2	.18488	.18788	9.8461	15.600	.19584
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198580-E-1-B MS Acquired: 6/10/2022 23:02:55 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.268**	**.22810**	**.19446**	**12.215**	**.18463**
Stddev	.050	.00019	.00044	.029	.00006
%RSD	.15342	.08411	.22661	.23500	.03228
#1	32.233	.22823	.19478	12.235	.18458
#2	32.303	.22796	.19415	12.194	.18467
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.19151**	**29.349**	**.19272**	**.17535**
Stddev	.00	.00035	.003	.00343	.00789
%RSD	.0004	.18145	.01051	1.7791	4.5011
#1	25.02	.19126	29.351	.19030	.18093
#2	25.02	.19175	29.347	.19515	.16977
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.809**	**.23505**	**.63575**	**1.010**	**.18888**
Stddev	.061	.00095	.00028	.005	.00026
%RSD	.51784	.40471	.04410	.4621	.13816
#1	11.766	.23437	.63595	1.014	.18870
#2	11.853	.23572	.63555	1.007	.18907
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198580-E-1-B MS Acquired: 6/10/2022 23:02:55 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19329**	**.18449**	**.18835**	**.9997**
Stddev	.00060	.00004	.00023	.0001
%RSD	.30990	.02281	.12013	.0109
#1	.19371	.18446	.18819	.9996
#2	.19286	.18452	.18851	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3611.7**	**3516.4**	**71804.**	**5514.3**
Stddev	4.9	1.3	156.	7.4
%RSD	.13432	.03653	.21690	.13334
#1	3608.3	3515.5	71914.	5509.1
#2	3615.1	3517.3	71694.	5519.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.736%	97.697%	98.176%	95.796%
Range				

Sample Name: 480-198580-E-1-C MSD Acquired: 6/10/2022 23:06:37 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04438**	**9.2123**	**.19447**	**.21532**	**.21378**
Stddev	.00010	.0267	.00246	.00072	.00008
%RSD	.21652	.28999	1.2663	.33403	.03884
#1	.04445	9.2312	.19621	.21482	.21373
#2	.04431	9.1934	.19273	.21583	.21384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19829**	**78.061**	**.18960**	**.2119**	**.19066**
Stddev	.00092	.298	.00022	.0311	.00040
%RSD	.46329	.38116	.11486	14.68	.20972
#1	.19894	78.271	.18944	.1899	.19094
#2	.19764	77.851	.18975	.2339	.19038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18141**	**.18666**	**9.6513**	**15.493**	**.19012**
Stddev	.00010	.00076	.0319	.058	.00020
%RSD	.05250	.40891	.33011	.37174	.10352
#1	.18134	.18720	9.6739	15.534	.19026
#2	.18148	.18612	9.6288	15.453	.18998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198580-E-1-C MSD Acquired: 6/10/2022 23:06:37 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.272**	**.22675**	**.19248**	**12.061**	**.18300**
Stddev	.077	.00041	.00032	.041	.00001
%RSD	.23826	.18291	.16799	.33917	.00791
#1	32.217	.22646	.19271	12.090	.18301
#2	32.326	.22705	.19225	12.032	.18299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.19045**	**29.339**	**.18871**	**.18233**
Stddev	.00	.00012	.012	.00304	.00163
%RSD	.0010	.06078	.04158	1.6129	.89480
#1	25.02	.19037	29.330	.18655	.18349
#2	25.02	.19053	29.347	.19086	.18118
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.768**	**.23435**	**.63580**	**1.004**	**.18658**
Stddev	.060	.00020	.00062	.007	.00002
%RSD	.51282	.08417	.09725	.7013	.01267
#1	11.810	.23421	.63624	1.009	.18656
#2	11.725	.23449	.63536	.9993	.18660
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198580-E-1-C MSD Acquired: 6/10/2022 23:06:37 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19155**	**.18295**	**.18625**	**.9992**
Stddev	.00160	.00075	.00134	.0001
%RSD	.83391	.41207	.71998	.0107
#1	.19268	.18242	.18530	.9991
#2	.19042	.18349	.18719	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3609.5**	**3512.2**	**71515.**	**5512.0**
Stddev	2.9	1.1	199.	40.0
%RSD	.07950	.03216	.27895	.72521
#1	3607.5	3513.0	71656.	5483.7
#2	3611.5	3511.4	71374.	5540.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.681%	97.581%	97.782%	95.755%
Range				

Sample Name: 198727-3 tot Acquired: 6/10/2022 23:10:17 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.02005**	**.00318**	**.08370**	**.12345**
Stddev	.00107	.02856	.00017	.00026	.00000
%RSD	717.13	142.45	5.2248	.31110	.00172
#1	-.00091	-.00015	.00306	.08388	.12345
#2	.00061	.04025	.00329	.08352	.12345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**101.02**	**.00002**	**.1280**	**-.00005**
Stddev	.00003	.13	.00001	.2358	.00017
%RSD	37.537	.13038	26.603	184.2	338.06
#1	.00011	101.11	.00002	-.0387	.00007
#2	.00006	100.92	.00003	.2947	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**-.00095**	**.02524**	**4.0937**	**.01717**
Stddev	.00011	.00036	.00085	.0451	.00106
%RSD	21.933	37.617	3.3819	1.1020	6.1452
#1	.00042	-.00070	.02584	4.1256	.01792
#2	.00057	-.00120	.02464	4.0618	.01643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 198727-3 tot Acquired: 6/10/2022 23:10:17 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**87.610**	**.00300**	**-.00071**	**34.057**	**.00030**
Stddev	.084	.00007	.00001	.010	.00006
%RSD	.09615	2.2887	1.8795	.02936	20.446
#1	87.670	.00295	-.00070	34.064	.00026
#2	87.551	.00305	-.00072	34.050	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00276**	**33.787**	**-.00235**	**-.00760**
Stddev	.00	.00060	.038	.00207	.00099
%RSD	.0018	21.794	.11197	87.900	13.053
#1	25.01	.00234	33.761	-.00381	-.00830
#2	25.01	.00319	33.814	-.00089	-.00690
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3986**	**-.00179**	**1.1348**	**.9997**	**.00060**
Stddev	.0572	.00012	.0017	.0001	.00019
%RSD	.60879	6.5264	.15159	.0096	32.385
#1	9.3581	-.00170	1.1360	.9998	.00046
#2	9.4391	-.00187	1.1336	.9997	.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 198727-3 tot Acquired: 6/10/2022 23:10:17 Type: Unk
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00232**	**.00015**	**-.00274**	**.9996**
Stddev	.00099	.00004	.00017	.0004
%RSD	42.678	30.697	6.3617	.0357
#1	.00302	.00011	-.00287	.9999
#2	.00162	.00018	-.00262	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3517.5**	**3408.0**	**69159.**	**5354.2**
Stddev	12.2	8.4	51.	17.2
%RSD	.34712	.24613	.07394	.32031
#1	3526.2	3413.9	69195.	5366.3
#2	3508.9	3402.1	69123.	5342.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.396%	94.686%	94.560%	93.014%
Range				

Sample Name: CCVL-7028546 Acquired: 6/10/2022 23:14:08 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00589**	**.18731**	**.01479**	**.01911**	**.00214**
Stddev	.00006	.00825	.00019	.00007	.00000
%RSD	1.0105	4.4043	1.3171	.38546	.08349
#1	.00585	.19314	.01492	.01916	.00214
#2	.00593	.18147	.01465	.01906	.00214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**.48876**	**.00186**	**.1747**	**.00372**
Stddev	.00003	.00284	.00004	.1373	.00035
%RSD	1.3507	.58057	2.1090	78.60	9.3476
#1	.00208	.48676	.00183	.2717	.00347
#2	.00212	.49077	.00188	.0776	.00397
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00407**	**.00916**	**.05274**	**.51226**	**.02749**
Stddev	.00002	.00063	.00067	.00289	.00080
%RSD	.50124	6.8695	1.2654	.56395	2.8994
#1	.00409	.00961	.05226	.51430	.02693
#2	.00406	.00872	.05321	.51021	.02806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/10/2022 23:14:08 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18852**	**.00317**	**.00862**	**1.1042**	**.00937**
Stddev	.00126	.00014	.00014	.0044	.00000
%RSD	.66868	4.3498	1.5867	.39495	.02337
#1	.18941	.00307	.00852	1.1011	.00937
#2	.18763	.00327	.00871	1.1073	.00937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01078**	**.20006**	**.01662**	W **.01744**
Stddev	.00	.00002	.00565	.00033	.00066
%RSD	.0023	.21176	2.8229	1.9791	3.7687
#1	25.00	.01080	.20405	.01638	.01698
#2	25.00	.01077	.19606	.01685	.01791
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value	.0060				.02500
Range	50.00%				-30.000%

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45023**	**.00873**	**.00497**	F **.9971**	**.00399**
Stddev	.00149	.00043	.00005	.0034	.00034
%RSD	.33006	4.9599	1.0114	.3386	8.4482
#1	.45128	.00904	.00494	.9995	.00423
#2	.44918	.00843	.00501	.9947	.00376
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/10/2022 23:14:08 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01940**	**.00459**	**.00861**	F **1.000**
Stddev	.00130	.00033	.00086	.000
%RSD	6.7076	7.1570	10.041	.0239
#1	.02032	.00436	.00800	1.000
#2	.01848	.00482	.00923	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4002.0**	**3642.2**	**74281.**	**5502.5**
Stddev	2.3	3.2	187.	9.3
%RSD	.05721	.08918	.25197	.16817
#1	4000.4	3639.9	74413.	5509.1
#2	4003.7	3644.5	74148.	5496.0

Sample Name: CCV-7024752 Acquired: 6/10/2022 23:18:02 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96413**	**49.789**	**1.0085**	**1.0427**	**1.0337**
Stddev	.00120	.016	.0013	.0001	.0003
%RSD	.12429	.03179	.12437	.01319	.03326
#1	.96329	49.778	1.0094	1.0426	1.0339
#2	.96498	49.800	1.0076	1.0428	1.0334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0170**	**49.949**	**1.0249**	**1.278**	**1.0227**
Stddev	.0005	.078	.0011	.106	.0015
%RSD	.05071	.15548	.10640	8.276	.14534
#1	1.0174	50.004	1.0257	1.204	1.0216
#2	1.0167	49.894	1.0241	1.353	1.0237
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98782**	**.98863**	**51.605**	**51.768**	**1.0023**
Stddev	.00123	.00066	.256	.048	.0004
%RSD	.12450	.06711	.49511	.09250	.04449
#1	.98695	.98816	51.785	51.734	1.0020
#2	.98869	.98910	51.424	51.802	1.0026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 23:18:02 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.968**	**1.0058**	**1.0094**	**51.266**	**1.0094**
Stddev	.170	.0025	.0013	.011	.0023
%RSD	.34643	.25010	.12962	.02166	.22976
#1	49.088	1.0076	1.0103	51.274	1.0078
#2	48.848	1.0040	1.0084	51.258	1.0110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.00**	**1.0191**	**25.405**	**.98699**	**.99192**
Stddev	.00	.0017	.038	.00026	.00055
%RSD	.0117	.16391	.14962	.02667	.05583
#1	38.00	1.0180	25.432	.98681	.99231
#2	38.00	1.0203	25.378	.98718	.99153
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9248**	**1.0222**	**1.0121**	**1.511**	**.99122**
Stddev	.0472	.0000	.0003	.003	.00001
%RSD	.47559	.00212	.03405	.2179	.00143
#1	9.8915	1.0222	1.0123	1.514	.99123
#2	9.9582	1.0222	1.0119	1.509	.99121
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 23:18:02 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0251**	**.99823**	**1.0517**	**1.511**
Stddev	.0031	.00044	.0020	.000
%RSD	.29716	.04452	.19287	.0196
#1	1.0272	.99854	1.0531	1.511
#2	1.0229	.99792	1.0503	1.512
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3418.3**	**3422.3**	**68765.**	**5330.6**
Stddev	3.7	1.5	147.	7.8
%RSD	.10940	.04394	.21386	.14582
#1	3420.9	3423.4	68661.	5325.1
#2	3415.6	3421.3	68869.	5336.1

Sample Name: CCB-7026764 Acquired: 6/10/2022 23:21:42 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00088**	**-.00299**	**.00077**	**.00074**	**.00007**
Stddev	.00003	.00452	.00091	.00033	.00003
%RSD	3.7368	151.24	117.58	45.273	39.347
#1	.00090	.00021	.00013	.00050	.00009
#2	.00086	-.00619	.00141	.00098	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00115**	**-.00004**	**.1583**	**.00020**
Stddev	.00003	.00107	.00010	.0296	.00003
%RSD	18.840	92.544	228.68	18.72	13.191
#1	.00012	-.00040	-.00011	.1374	.00018
#2	.00015	-.00190	.00003	.1793	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**-.00044**	**.00632**	**.02710**	**-.00052**
Stddev	.00009	.00016	.00141	.01613	.00034
%RSD	25.616	35.299	22.316	59.511	66.374
#1	.00041	-.00033	.00532	.01570	-.00027
#2	.00028	-.00055	.00732	.03850	-.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 23:21:42 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00197**	**.00002**	**.00209**	**.10664**	**.00025**
Stddev	.00226	.00006	.00052	.00572	.00001
%RSD	114.86	330.59	24.980	5.3600	2.9744
#1	-.00357	-.00002	.00172	.10260	.00026
#2	-.00037	.00006	.00246	.11068	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00074**	**.01003**	**-.00101**	**.00087**
Stddev	.00	.00058	.00153	.00071	.00022
%RSD	.0044	78.700	15.273	70.975	25.077
#1	25.00	.00033	.01111	-.00151	.00071
#2	25.00	.00115	.00894	-.00050	.00102
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00699**	**.00017**	**.00007**	**.9980**	**.00042**
Stddev	.00726	.00030	.00020	.0011	.00032
%RSD	103.83	176.68	289.85	.1139	76.337
#1	-.01213	-.00004	-.00007	.9972	.00065
#2	-.00186	.00038	.00021	.9988	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 23:21:42 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00033**	**-.00007**	**-.00007**	**.9995**
Stddev	.00123	.00032	.00006	.0001
%RSD	370.29	475.06	90.329	.0095
#1	-.00054	.00016	-.00011	.9996
#2	.00121	-.00030	-.00002	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4052.8**	**3663.3**	**74961.**	**5514.9**
Stddev	3.5	1.4	48.	17.5
%RSD	.08648	.03790	.06468	.31716
#1	4050.3	3662.3	74926.	5527.3
#2	4055.3	3664.3	74995.	5502.6

Sample Name: CCV-7024752 Acquired: 6/10/2022 23:25:36 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93861**	**48.977**	**.99258**	**1.0298**	**1.0284**
Stddev	.00049	.049	.00262	.0021	.0009
%RSD	.05214	.09967	.26423	.20726	.08768
#1	.93896	48.942	.99444	1.0313	1.0278
#2	.93826	49.011	.99073	1.0283	1.0291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0055**	**49.086**	**1.0125**	**1.271**	**1.0138**
Stddev	.0016	.007	.0001	.016	.0010
%RSD	.15839	.01402	.01221	1.264	.10373
#1	1.0044	49.091	1.0126	1.260	1.0146
#2	1.0066	49.081	1.0124	1.283	1.0131
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96643**	**.96578**	**50.743**	**51.201**	**.98861**
Stddev	.00019	.00145	.253	.044	.00088
%RSD	.02002	.14972	.49830	.08585	.08867
#1	.96657	.96680	50.922	51.170	.98799
#2	.96629	.96476	50.564	51.232	.98923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 23:25:36 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.695**	**.98296**	**.99450**	**50.738**	**.99378**
Stddev	.055	.00033	.00194	.054	.00010
%RSD	.11574	.03334	.19473	.10623	.01041
#1	47.734	.98319	.99587	50.699	.99385
#2	47.656	.98273	.99313	50.776	.99370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.86**	**1.0087**	**24.968**	**.96098**	**.97248**
Stddev	.02	.0040	.033	.00030	.01269
%RSD	.0460	.39242	.13136	.03091	1.3051
#1	37.87	1.0115	24.991	.96119	.98145
#2	37.85	1.0059	24.945	.96077	.96350
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7302**	**1.0131**	**.99763**	**1.508**	**.97237**
Stddev	.0000	.0027	.00012	.003	.00262
%RSD	.00045	.26454	.01205	.2285	.26963
#1	9.7303	1.0150	.99772	1.511	.97422
#2	9.7302	1.0112	.99755	1.506	.97051
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7024752 Acquired: 6/10/2022 23:25:36 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0113**	**.97628**	**1.0345**	**1.504**
Stddev	.0022	.00133	.0050	.002
%RSD	.22203	.13613	.48456	.1528
#1	1.0129	.97722	1.0380	1.503
#2	1.0097	.97534	1.0309	1.506
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3460.9**	**3482.0**	**70023.**	**5378.1**
Stddev	1.2	2.7	29.	7.4
%RSD	.03386	.07740	.04151	.13759
#1	3461.7	3483.9	70002.	5383.3
#2	3460.0	3480.1	70043.	5372.9

Sample Name: CCB-7026764 Acquired: 6/10/2022 23:29:15 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**-.01929**	**.00205**	**.00126**	**.00002**
Stddev	.00035	.01597	.00014	.00022	.00001
%RSD	97.035	82.787	6.6870	17.061	58.787
#1	.00062	-.03059	.00215	.00111	.00001
#2	.00011	-.00800	.00196	.00142	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**-.00134**	**.00000**	**.1527**	**-.00005**
Stddev	.00003	.00189	.00009	.0482	.00014
%RSD	28.541	141.45	2711.8	31.56	294.07
#1	.00008	.00000	-.00006	.1186	.00005
#2	.00013	-.00268	.00007	.1868	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**-.00109**	**.00589**	**.01879**	**.00002**
Stddev	.00007	.00029	.00096	.01258	.00009
%RSD	27.910	26.874	16.231	66.953	491.63
#1	.00030	-.00088	.00657	.02769	.00008
#2	.00020	-.00130	.00522	.00989	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 23:29:15 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00102**	**.00011**	**.00200**	**.08540**	**.00021**
Stddev	.00013	.00003	.00043	.01214	.00011
%RSD	12.634	27.387	21.659	14.216	53.337
#1	-.00111	.00009	.00169	.09399	.00013
#2	-.00093	.00013	.00231	.07682	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00110**	**.00665**	**-.00271**	**.00092**
Stddev	.00	.00007	.00535	.00064	.00329
%RSD	.0038	6.2756	80.525	23.686	355.98
#1	25.00	.00115	.01043	-.00316	-.00140
#2	25.00	.00105	.00286	-.00225	.00325
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00440**	**.00053**	**-.00007**	**1.003**	**.00021**
Stddev	.00474	.00030	.00011	.006	.00013
%RSD	107.62	56.509	154.76	.5928	62.700
#1	-.00775	.00074	.00001	.9989	.00012
#2	-.00105	.00032	-.00015	1.007	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/10/2022 23:29:15 Type: QC
Method: ICAP1 Feb 2022(v110) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00001**	**-.00093**	**.9989**
Stddev	.00043	.00006	.00074	.0004
%RSD	174.41	481.94	79.856	.0431
#1	.00055	.00005	-.00041	.9986
#2	-.00006	-.00003	-.00146	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4040.1**	**3660.3**	**74728.**	**5502.8**
Stddev	5.1	1.7	65.	10.7
%RSD	.12719	.04660	.08638	.19485
#1	4036.5	3659.1	74773.	5510.4
#2	4043.7	3661.5	74682.	5495.2

Run File: I1061422A Instrument: ICAP1

Analyst: BLH Data Review: 6/15/22 BLH

Spikes Ids:6909430(W1), 6893463(W2),6902374(Sn), 6917474(Ag),6917504(Si), 6842082(TCLP), 6917511(S)
Pipette IDs: 3/22/22-(1-11)
Internal Standard:7026763

Seq#	Run File ID	Sample ID	Date / Time	Type
1	I1061422A	ICIS-7026764	6/14/2022 11:41:26AM	Standard
2	I1061422A	IC-7028546	6/14/2022 11:45:19AM	Standard
3	I1061422A	IC-7032336	6/14/2022 11:49:12AM	Standard
4	I1061422A	IC-7019492	6/14/2022 11:52:52AM	Standard
5	I1061422A	ICV-7032328	6/14/2022 11:56:30AM	QC
6	I1061422A	ICB-7026764	6/14/2022 12:00:12PM	QC
7	I1061422A	ICVL-7028546	6/14/2022 12:04:05PM	QC
8	I1061422A	ICSA-7017591	6/14/2022 12:07:58PM	QC
9	I1061422A	ICSAB-7019499	6/14/2022 12:11:56PM	QC
10	I1061422A	ICEX1	6/14/2022 12:15:50PM	Unknown
11	I1061422A	ICEX2	6/14/2022 12:19:53PM	Unknown
12	I1061422A	ICEX3	6/14/2022 12:23:49PM	Unknown
13	I1061422A	ICEX4	6/14/2022 12:27:52PM	Unknown
14	I1061422A	ICEX5	6/14/2022 12:31:43PM	Unknown
15	I1061422A	CCV-7032336	6/14/2022 12:35:35PM	QC
16	I1061422A	CCB-7026764	6/14/2022 12:39:15PM	QC
17	I1061422A	CCVL-7028546	6/14/2022 1:00:38PM	QC
18	I1061422A	480-198641-b-1-a	6/14/2022 1:04:31PM	Unknown
19	I1061422A	480-198641-b-1-asd@5	6/14/2022 1:08:23PM	Unknown
20	I1061422A	480-198641-b-1-aPDS	6/14/2022 1:12:16PM	Unknown
21	I1061422A	480-198641-b-1-b ms	6/14/2022 1:15:57PM	Unknown
22	I1061422A	480-198641-b-1-c msd	6/14/2022 1:19:38PM	Unknown
23	I1061422A	480-198641-B-2-A	6/14/2022 1:23:19PM	Unknown
24	I1061422A	480-198641-B-3-A	6/14/2022 1:27:09PM	Unknown
25	I1061422A	480-198641-B-4-A	6/14/2022 1:31:06PM	Unknown
26	I1061422A	480-198641-B-5-A	6/14/2022 1:34:56PM	Unknown
27	I1061422A	CCV-7032336	6/14/2022 1:38:53PM	QC
28	I1061422A	CCB-7026764	6/14/2022 1:42:33PM	QC
29	I1061422A	CCVL-7028546	6/14/2022 1:46:27PM	QC
30	I1061422A	480-198641-B-6-A	6/14/2022 1:50:19PM	Unknown
31	I1061422A	480-198641-B-7-A	6/14/2022 1:54:09PM	Unknown
32	I1061422A	480-198641-B-8-A	6/14/2022 1:57:58PM	Unknown
33	I1061422A	480-198641-B-9-A	6/14/2022 2:01:48PM	Unknown
34	I1061422A	198641-6 sol	6/14/2022 2:05:39PM	Unknown
35	I1061422A	198391-15 tot	6/14/2022 2:09:29PM	Unknown
36	I1061422A	198393-3 tot	6/14/2022 2:13:19PM	Unknown
37	I1061422A	198724-1 sol	6/14/2022 2:17:09PM	Unknown
38	I1061422A	198560-7 sol	6/14/2022 2:21:01PM	Unknown
39	I1061422A	CCV-7032336	6/14/2022 2:24:57PM	QC
40	I1061422A	CCB-7026764	6/14/2022 2:28:38PM	QC
41	I1061422A	CCVL-7028546	6/14/2022 2:32:32PM	QC
42	I1061422A	MB 480-629611/1-A	6/14/2022 2:36:24PM	Unknown

43	I1061422A	LCSSRM 480-629611/2-	6/14/2022	2:40:17PM	Unknown
44	I1061422A	LCDSRM 480-629611/3-	6/14/2022	2:43:57PM	Unknown
45	I1061422A	480-198256-D-11-B	6/14/2022	2:47:36PM	Unknown
46	I1061422A	480-198256-D-12-B	6/14/2022	2:51:24PM	Unknown
47	I1061422A	198256-D-12-Bsd@5	6/14/2022	2:55:07PM	Unknown
48	I1061422A	480-198256-D-12-BPDS	6/14/2022	2:58:57PM	Unknown
49	I1061422A	480-198256-D-12-C MS	6/14/2022	3:02:40PM	Unknown
50	I1061422A	198256-D-12-D MSD	6/14/2022	3:06:23PM	Unknown
51	I1061422A	CCV-7032336	6/14/2022	3:10:07PM	QC
52	I1061422A	CCB-7026764	6/14/2022	3:13:47PM	QC
53	I1061422A	CCVL-7028546	6/14/2022	3:17:41PM	QC
54	I1061422A	480-198752-A-1-A	6/14/2022	3:21:33PM	Unknown
55	I1061422A	480-198752-A-4-B	6/14/2022	3:25:20PM	Unknown
56	I1061422A	480-198752-A-7-B	6/14/2022	3:29:06PM	Unknown
57	I1061422A	480-198752-A-8-B	6/14/2022	3:32:58PM	Unknown
58	I1061422A	480-198752-A-9-B	6/14/2022	3:36:44PM	Unknown
59	I1061422A	480-198752-A-12-A	6/14/2022	3:40:30PM	Unknown
60	I1061422A	480-198781-B-1-D	6/14/2022	3:44:16PM	Unknown
61	I1061422A	480-198781-B-2-F	6/14/2022	3:48:19PM	Unknown
62	I1061422A	480-198812-A-1-A	6/14/2022	3:52:21PM	Unknown
63	I1061422A	CCV-7032336	6/14/2022	3:56:15PM	QC
64	I1061422A	CCB-7026764	6/14/2022	3:59:55PM	QC
65	I1061422A	CCVL-7028546	6/14/2022	4:03:49PM	QC
66	I1061422A	480-198812-B-2-A	6/14/2022	4:07:42PM	Unknown
67	I1061422A	480-198812-B-3-A	6/14/2022	4:11:31PM	Unknown
68	I1061422A	480-198812-A-27-A	6/14/2022	4:15:25PM	Unknown
69	I1061422A	480-198812-A-28-A	6/14/2022	4:19:17PM	Unknown
70	I1061422A	480-198812-A-29-A	6/14/2022	4:23:02PM	Unknown
71	I1061422A	480-198812-A-32-A	6/14/2022	4:26:49PM	Unknown
72	I1061422A	480-198812-A-33-A	6/14/2022	4:30:39PM	Unknown
73	I1061422A	480-198812-A-34-A	6/14/2022	4:34:25PM	Unknown
74	I1061422A	480-198819-G-1-A	6/14/2022	4:38:12PM	Unknown
75	I1061422A	CCV-7032336	6/14/2022	4:42:04PM	QC
76	I1061422A	CCB-7026764	6/14/2022	4:45:43PM	QC
77	I1061422A	CCVL-7028546	6/14/2022	4:49:38PM	QC
78	I1061422A	LCS 480-629606/2-A	6/14/2022	4:53:30PM	Unknown
79	I1061422A	480-198813-D-9-A	6/14/2022	4:57:11PM	Unknown
80	I1061422A	480-198813-R-10-A	6/14/2022	5:01:08PM	Unknown
81	I1061422A	480-198815-D-1-A	6/14/2022	5:05:01PM	Unknown
82	I1061422A	480-198815-D-2-A	6/14/2022	5:08:50PM	Unknown
83	I1061422A	480-198831-A-2-A	6/14/2022	5:12:39PM	Unknown
84	I1061422A	MB 480-629663/1-A	6/14/2022	5:16:48PM	Unknown
85	I1061422A	LCS 480-629663/2-A	6/14/2022	5:20:41PM	Unknown
86	I1061422A	480-198840-C-1-B	6/14/2022	5:24:23PM	Unknown
87	I1061422A	CCV-7032336	6/14/2022	5:28:19PM	QC
88	I1061422A	CCB-7026764	6/14/2022	5:31:59PM	QC
89	I1061422A	CCVL-7028546	6/14/2022	5:35:54PM	QC
90	I1061422A	480-198840-C-2-D	6/14/2022	5:39:45PM	Unknown
91	I1061422A	480-198840-C-3-B	6/14/2022	5:43:39PM	Unknown
92	I1061422A	480-198840-C-3-Bsd@5	6/14/2022	5:47:29PM	Unknown
93	I1061422A	480-198840-C-3-BPDS	6/14/2022	5:51:22PM	Unknown
94	I1061422A	480-198840-C-3-C MS	6/14/2022	5:55:03PM	Unknown

95	I1061422A	480-198840-C-3-D MSD	6/14/2022	5:58:44PM	Unknown
96	I1061422A	480-198840-C-9-B	6/14/2022	6:02:25PM	Unknown
97	I1061422A	480-198843-D-1-B	6/14/2022	6:06:13PM	Unknown
98	I1061422A	480-198843-D-2-B	6/14/2022	6:10:09PM	Unknown
99	I1061422A	CCV-7032336	6/14/2022	6:14:07PM	QC
100	I1061422A	CCB-7026764	6/14/2022	6:17:47PM	QC
101	I1061422A	CCVL-7028546	6/14/2022	6:21:42PM	QC
102	I1061422A	480-198843-D-3-B	6/14/2022	6:25:34PM	Unknown
103	I1061422A	480-198843-D-4-B	6/14/2022	6:29:30PM	Unknown
104	I1061422A	480-198843-D-5-B	6/14/2022	6:33:20PM	Unknown
105	I1061422A	480-198843-D-6-B	6/14/2022	6:37:10PM	Unknown
106	I1061422A	198665-16 sol	6/14/2022	6:41:00PM	Unknown
107	I1061422A	198665-20 sol	6/14/2022	6:44:49PM	Unknown
108	I1061422A	198665-3 sol	6/14/2022	6:48:38PM	Unknown
109	I1061422A	MB 480-629848/1-A	6/14/2022	6:52:29PM	Unknown
110	I1061422A	LCS 480-629848/2-A	6/14/2022	6:56:22PM	Unknown
111	I1061422A	CCV-7032336	6/14/2022	7:00:05PM	QC
112	I1061422A	CCB-7026764	6/14/2022	7:03:44PM	QC
113	I1061422A	CCVL-7028546	6/14/2022	7:07:39PM	QC
114	I1061422A	LCSD 480-629848/3-A	6/14/2022	7:11:32PM	Unknown
115	I1061422A	480-198604-D-1-B	6/14/2022	7:15:13PM	Unknown
116	I1061422A	480-198604-D-1-Bsd@5	6/14/2022	7:19:02PM	Unknown
117	I1061422A	480-198604-D-1-BPDS	6/14/2022	7:22:54PM	Unknown
118	I1061422A	480-198604-D-2-B	6/14/2022	7:26:40PM	Unknown
119	I1061422A	480-198604-D-3-B	6/14/2022	7:30:29PM	Unknown
120	I1061422A	480-198604-D-4-B	6/14/2022	7:34:19PM	Unknown
121	I1061422A	480-198604-D-5-B	6/14/2022	7:38:12PM	Unknown
122	I1061422A	480-198552-D-1-B	6/14/2022	7:42:03PM	Unknown
123	I1061422A	CCV-7032336	6/14/2022	7:45:54PM	QC
124	I1061422A	CCB-7026764	6/14/2022	7:49:34PM	QC
125	I1061422A	CCVL-7028546	6/14/2022	7:53:28PM	QC
126	I1061422A	480-198552-D-2-B	6/14/2022	7:57:20PM	Unknown
127	I1061422A	480-198552-D-3-B	6/14/2022	8:01:10PM	Unknown
128	I1061422A	480-198552-D-4-B	6/14/2022	8:05:00PM	Unknown
129	I1061422A	480-198552-D-5-B	6/14/2022	8:09:00PM	Unknown
130	I1061422A	480-198552-D-6-B	6/14/2022	8:12:51PM	Unknown
131	I1061422A	480-198552-D-7-B	6/14/2022	8:16:40PM	Unknown
132	I1061422A	620-4843-I-1-E	6/14/2022	8:20:36PM	Unknown
133	I1061422A	620-4843-I-2-E	6/14/2022	8:24:25PM	Unknown
134	I1061422A	620-4843-I-3-E	6/14/2022	8:28:12PM	Unknown
135	I1061422A	CCV-7032336	6/14/2022	8:32:01PM	QC
136	I1061422A	CCB-7026764	6/14/2022	8:35:42PM	QC
137	I1061422A	CCVL-7028546	6/14/2022	8:39:36PM	QC
138	I1061422A	620-4843-I-4-E	6/14/2022	8:43:29PM	Unknown
139	I1061422A	620-4843-I-5-E	6/14/2022	8:47:17PM	Unknown
140	I1061422A	MB 480-629880/1-A	6/14/2022	8:51:09PM	Unknown
141	I1061422A	LCS 480-629880/2-A	6/14/2022	8:55:03PM	Unknown
142	I1061422A	480-198882-C-1-B	6/14/2022	8:58:44PM	Unknown
143	I1061422A	480-198882-C-1-Bsd@5	6/14/2022	9:02:37PM	Unknown
144	I1061422A	480-198882-C-1-BPDS	6/14/2022	9:06:27PM	Unknown
145	I1061422A	480-198882-C-1-C MS	6/14/2022	9:10:12PM	Unknown
146	I1061422A	480-198882-C-1-D MSD	6/14/2022	9:13:57PM	Unknown

147	I1061422A	CCV-7032336	6/14/2022	9:17:42PM	QC
148	I1061422A	CCB-7026764	6/14/2022	9:21:22PM	QC
149	I1061422A	CCVL-7028546	6/14/2022	9:25:16PM	QC
150	I1061422A	480-198882-C-5-B	6/14/2022	9:29:09PM	Unknown
151	I1061422A	480-198882-C-7-B	6/14/2022	9:32:59PM	Unknown
152	I1061422A	480-198882-C-8-B	6/14/2022	9:36:47PM	Unknown
153	I1061422A	480-198882-C-9-B	6/14/2022	9:40:36PM	Unknown
154	I1061422A	480-198882-C-10-B	6/14/2022	9:44:24PM	Unknown
155	I1061422A	480-198913-J-1-A	6/14/2022	9:48:12PM	Unknown
156	I1061422A	480-198887-D-1-A	6/14/2022	9:52:09PM	Unknown
157	I1061422A	480-197352-J-1-B	6/14/2022	9:56:00PM	Unknown
158	I1061422A	480-197352-J-2-B	6/14/2022	10:00:17PM	Unknown
159	I1061422A	CCV-7032336	6/14/2022	10:04:36PM	QC
160	I1061422A	CCB-7026764	6/14/2022	10:08:16PM	QC
161	I1061422A	CCVL-7028546	6/14/2022	10:12:11PM	QC
162	I1061422A	MB 480-629782/1-A	6/14/2022	10:16:04PM	Unknown
163	I1061422A	LCS 480-629782/2-A	6/14/2022	10:19:58PM	Unknown
164	I1061422A	480-198437-C-3-D	6/14/2022	10:23:39PM	Unknown
165	I1061422A	480-198437-C-6-D	6/14/2022	10:27:29PM	Unknown
166	I1061422A	480-198437-C-6-Dsd@5	6/14/2022	10:31:18PM	Unknown
167	I1061422A	480-198437-C-6-DPDS	6/14/2022	10:35:10PM	Unknown
168	I1061422A	480-198437-C-6-E MS	6/14/2022	10:38:51PM	Unknown
169	I1061422A	480-198437-C-6-F MSD	6/14/2022	10:42:32PM	Unknown
170	I1061422A	MB 480-629818/1-A	6/14/2022	10:46:12PM	Unknown
171	I1061422A	CCV-7032336	6/14/2022	10:50:07PM	QC
172	I1061422A	CCB-7026764	6/14/2022	10:53:47PM	QC
173	I1061422A	CCVL-7028546	6/14/2022	10:57:41PM	QC
174	I1061422A	LCS 480-629818/2-A	6/14/2022	11:01:34PM	Unknown
175	I1061422A	480-198859-E-1-A	6/14/2022	11:05:15PM	Unknown
176	I1061422A	480-198859-C-2-A	6/14/2022	11:09:06PM	Unknown
177	I1061422A	480-198859-C-3-A	6/14/2022	11:12:53PM	Unknown
178	I1061422A	480-198859-C-4-A	6/14/2022	11:16:42PM	Unknown
179	I1061422A	480-198859-C-4-Asd@5	6/14/2022	11:20:33PM	Unknown
180	I1061422A	480-198859-C-4-APDS	6/14/2022	11:24:23PM	Unknown
181	I1061422A	480-198859-C-4-B MS	6/14/2022	11:28:05PM	Unknown
182	I1061422A	480-198859-C-4-C MSD	6/14/2022	11:31:46PM	Unknown
183	I1061422A	CCV-7032336	6/14/2022	11:35:28PM	QC
184	I1061422A	CCB-7026764	6/14/2022	11:39:09PM	QC
185	I1061422A	CCVL-7028546	6/14/2022	11:43:03PM	QC
186	I1061422A	480-198861-B-1-A	6/14/2022	11:46:55PM	Unknown
187	I1061422A	480-198861-B-2-A	6/14/2022	11:50:42PM	Unknown
188	I1061422A	480-198861-B-2-B MS	6/14/2022	11:54:31PM	Unknown
189	I1061422A	480-198861-B-2-C MSD	6/14/2022	11:58:19PM	Unknown
190	I1061422A	480-198868-E-1-A	6/15/2022	12:02:07AM	Unknown
191	I1061422A	480-198868-E-2-A	6/15/2022	12:05:53AM	Unknown
192	I1061422A	480-198870-A-4-A	6/15/2022	12:09:43AM	Unknown
193	I1061422A	480-198871-A-3-A	6/15/2022	12:13:31AM	Unknown
194	I1061422A	480-198872-A-4-A	6/15/2022	12:17:25AM	Unknown
195	I1061422A	CCV-7032336	6/15/2022	12:21:14AM	QC
196	I1061422A	CCB-7026764	6/15/2022	12:24:55AM	QC
197	I1061422A	CCVL-7028546	6/15/2022	12:28:49AM	QC
198	I1061422A	480-198873-A-4-A	6/15/2022	12:32:42AM	Unknown

199	I1061422A	480-198874-A-4-A	6/15/2022	12:36:30AM	Unknown
200	I1061422A	480-198875-A-4-A	6/15/2022	12:40:18AM	Unknown
201	I1061422A	480-198884-A-4-A	6/15/2022	12:44:07AM	Unknown
202	I1061422A	480-198944-C-1-B	6/15/2022	12:47:55AM	Unknown
203	I1061422A	480-198943-C-5-B	6/15/2022	12:51:44AM	Unknown
204	I1061422A	480-198917-A-1-A	6/15/2022	12:55:38AM	Unknown
205	I1061422A	MB 480-629874/1-A	6/15/2022	12:59:28AM	Unknown
206	I1061422A	LCS 480-629874/2-A	6/15/2022	1:03:22AM	Unknown
207	I1061422A	CCV-7032336	6/15/2022	1:07:03AM	QC
208	I1061422A	CCB-7026764	6/15/2022	1:10:43AM	QC
209	I1061422A	CCVL-7028546	6/15/2022	1:14:37AM	QC
210	I1061422A	480-198941-A-1-A	6/15/2022	1:18:30AM	Unknown
211	I1061422A	480-198941-A-1-Asd@5	6/15/2022	1:22:23AM	Unknown
212	I1061422A	480-198941-A-1-APDS	6/15/2022	1:26:16AM	Unknown
213	I1061422A	480-198941-A-1-B MS	6/15/2022	1:29:57AM	Unknown
214	I1061422A	480-198941-A-1-C MSD	6/15/2022	1:33:38AM	Unknown
215	I1061422A	480-198941-A-2-A	6/15/2022	1:37:19AM	Unknown
216	I1061422A	480-198941-A-3-A	6/15/2022	1:41:12AM	Unknown
217	I1061422A	480-198941-A-4-A	6/15/2022	1:45:05AM	Unknown
218	I1061422A	480-198941-A-5-A	6/15/2022	1:48:57AM	Unknown
219	I1061422A	CCV-7032336	6/15/2022	1:52:51AM	QC
220	I1061422A	CCB-7026764	6/15/2022	1:56:31AM	QC
221	I1061422A	CCVL-7028546	6/15/2022	2:00:25AM	QC
222	I1061422A	480-198941-A-6-A	6/15/2022	2:04:18AM	Unknown
223	I1061422A	480-198941-A-7-A	6/15/2022	2:08:11AM	Unknown
224	I1061422A	480-198941-A-8-A	6/15/2022	2:12:03AM	Unknown
225	I1061422A	480-198941-A-9-A	6/15/2022	2:15:56AM	Unknown
226	I1061422A	480-198941-A-10-A	6/15/2022	2:19:49AM	Unknown
227	I1061422A	480-198941-A-11-A	6/15/2022	2:23:41AM	Unknown
228	I1061422A	480-198941-A-12-A	6/15/2022	2:27:34AM	Unknown
229	I1061422A	480-198904-C-1-A	6/15/2022	2:31:26AM	Unknown
230	I1061422A	480-198904-C-2-A	6/15/2022	2:35:26AM	Unknown
231	I1061422A	CCV-7032336	6/15/2022	2:39:26AM	QC
232	I1061422A	CCB-7026764	6/15/2022	2:43:06AM	QC
233	I1061422A	CCVL-7028546	6/15/2022	2:47:01AM	QC
234	I1061422A	CCV-7032336	6/15/2022	2:50:55AM	QC
235	I1061422A	CCB-7026764	6/15/2022	2:54:35AM	QC

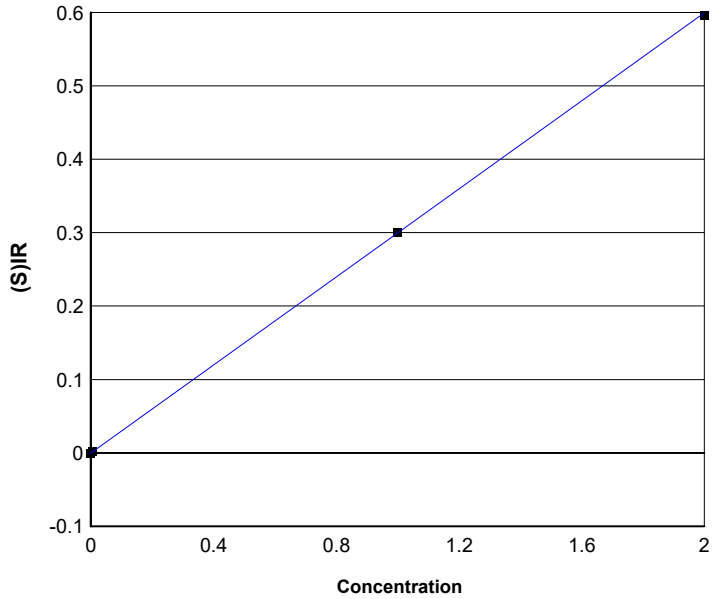
I1061422A

Author: BLH

Published: 6/15/2022 9:40:22AM

Instrument Name: ICAP1 Serial Number: 20094603

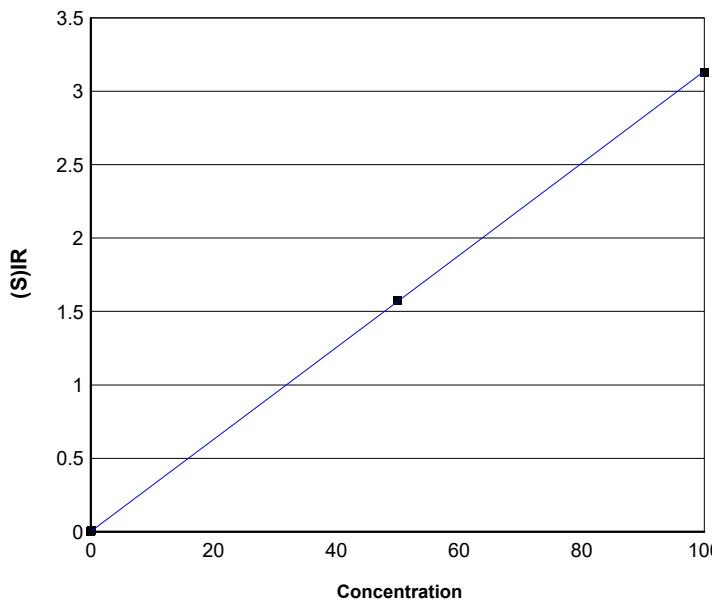
Method Name: ICAP1 Feb 2022 (113)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00038845
A1 (Gain):	0.30003
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

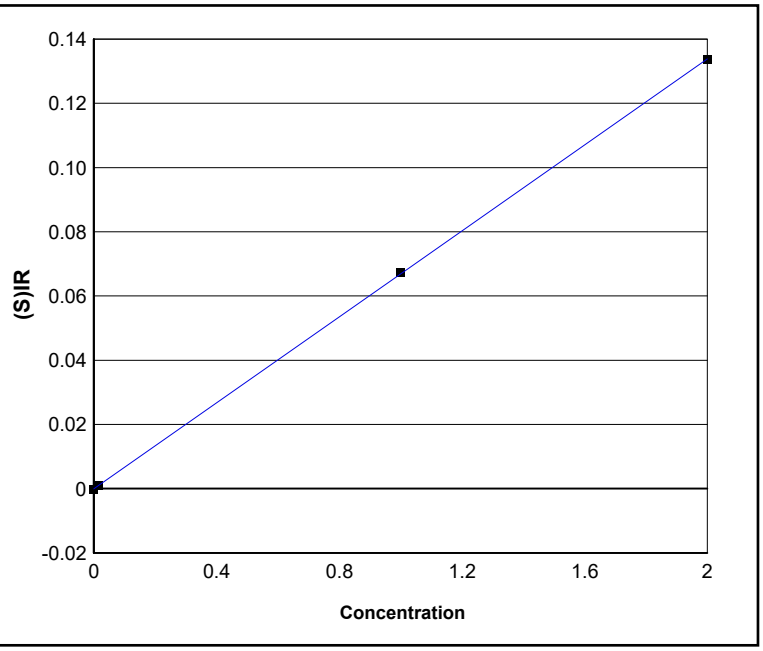
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000391	0.0000000391	0.00000	-0.00038843	0.0000001922	1
IC-7028546	0.0060000	0.0059476	-0.000052449	-0.87415	0.0013960	0.000052161	1
IC-7032336	1.0000	1.0044	0.0043880	0.43880	0.29977	0.00034488	1
IC-7019492	2.0000	1.9957	-0.0043354	-0.21677	0.59600	0.00053334	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0015084
A1 (Gain):	0.031351
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

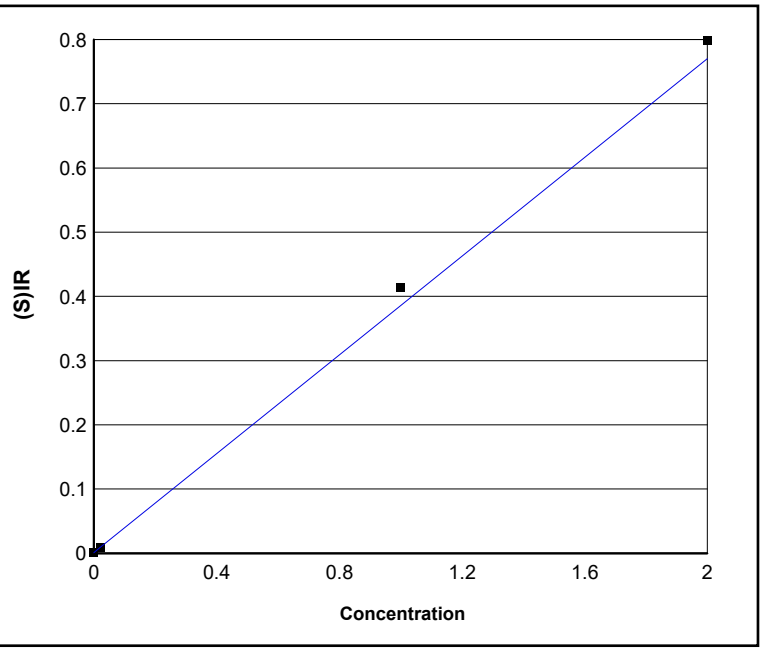
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000029264	-0.0000029264	0.00000	0.0015083	0.00082618	1
IC-7028546	0.20000	0.20239	0.0023907	1.1953	0.0078535	0.00035904	1
IC-7032336	50.000	50.270	0.27024	0.54047	1.5775	0.0090654	1
IC-7019492	100.00	99.727	-0.27263	-0.27263	3.1280	0.0029698	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.000060557
A1 (Gain):	0.066935
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

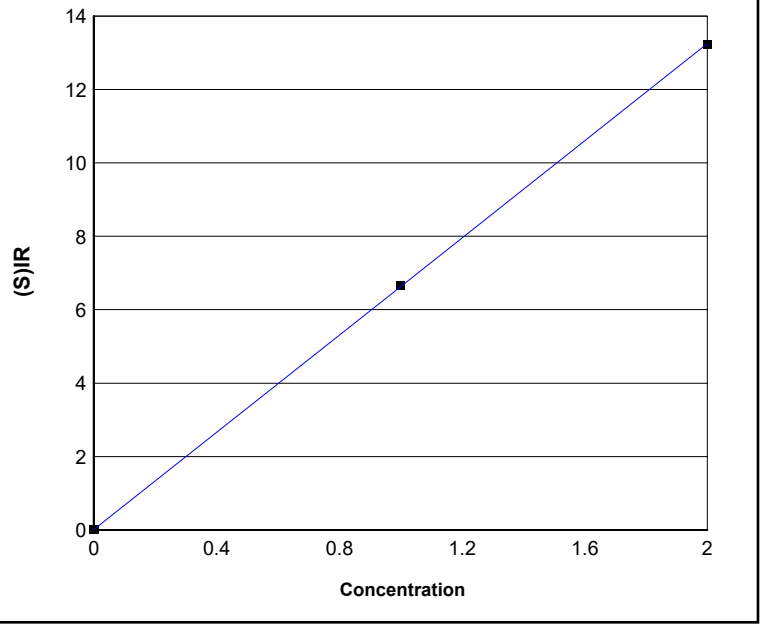
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000002246	-0.0000002246	0.00000	-0.000060572	0.000066243	1
IC-7028546	0.015000	0.015192	0.00019205	1.2803	0.00095644	0.000099316	1
IC-7032336	1.0000	1.0045	0.0045302	0.45302	0.067207	0.00012485	1
IC-7019492	2.0000	1.9953	-0.0047222	-0.23611	0.13355	0.00018693	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99988
A0 (Offset):	0.0011419
A1 (Gain):	0.38444
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

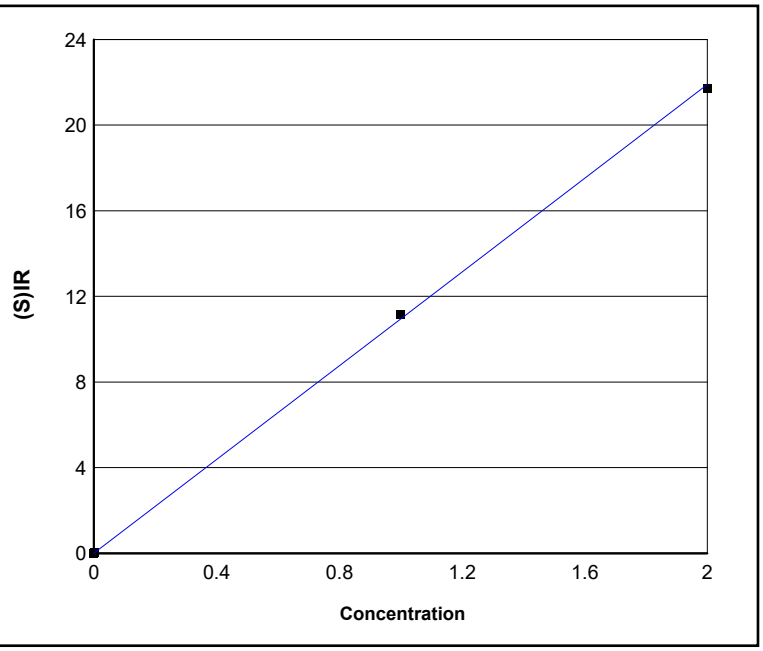
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000968	0.0000000968	0.00000	0.0011420	0.00015423	1
IC-7028546	0.020000	0.019667	-0.00033289	-1.6644	0.0088906	0.00023706	1
IC-7032336	1.0000	1.0233	0.023281	2.3281	0.41331	0.00069724	1
IC-7019492	2.0000	1.9770	-0.022956	-1.1478	0.79876	0.0015871	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0088261
A1 (Gain):	6.6232
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

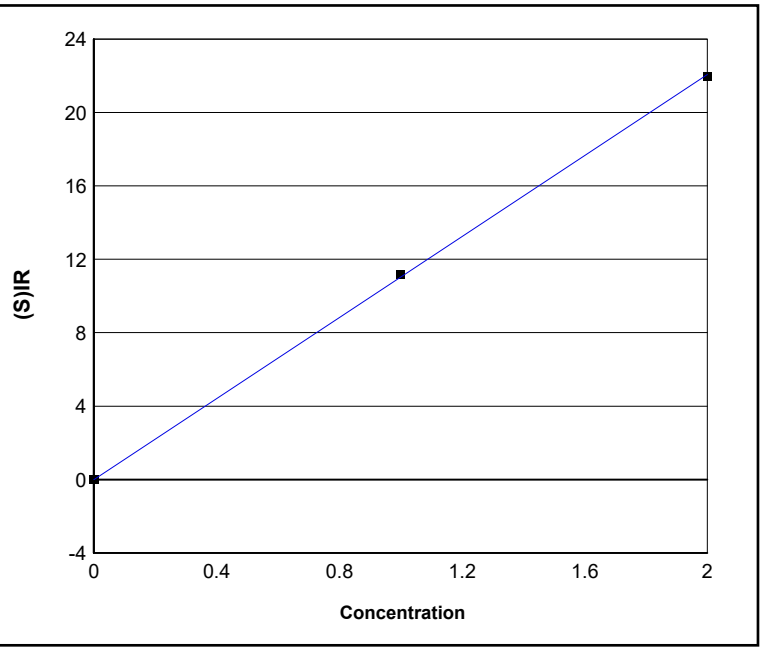
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000002876	-0.0000002876	0.00000	0.0088242	0.0022017	1
IC-7028546	0.0020000	0.0022850	0.00028501	14.250	0.023960	0.00053816	1
IC-7032336	1.0000	1.0029	0.0029038	0.29038	6.6513	0.033382	1
IC-7019492	2.0000	1.9968	-0.0031889	-0.15944	13.234	0.0065035	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.0021370
A1 (Gain):	10.949
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

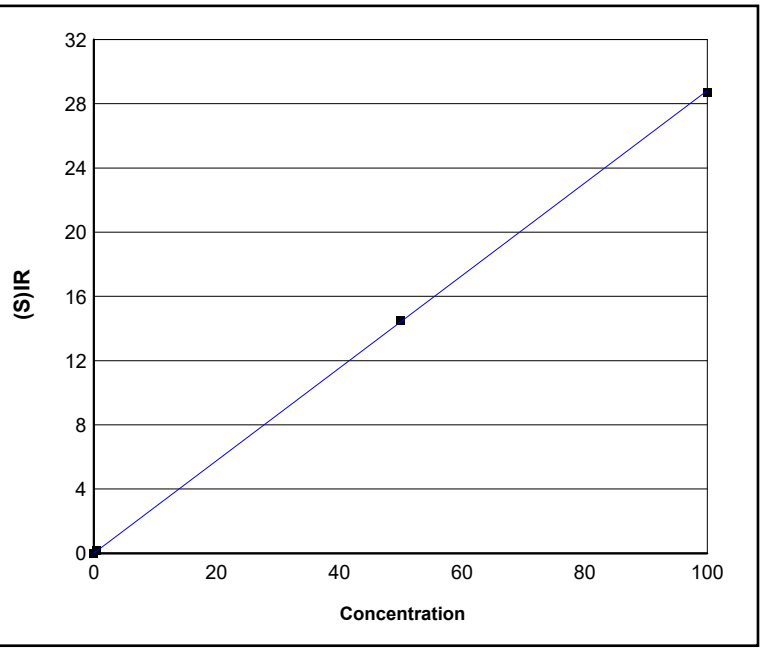
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000001526	-0.0000001526	0.00000	0.0021353	0.000015421	1
IC-7028546	0.0020000	0.0021361	0.00013609	6.8045	0.025526	0.000012834	1
IC-7032336	1.0000	1.0167	0.016675	1.6675	11.134	0.023160	1
IC-7019492	2.0000	1.9832	-0.016811	-0.84057	21.717	0.059456	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.0091799
A1 (Gain):	11.043
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

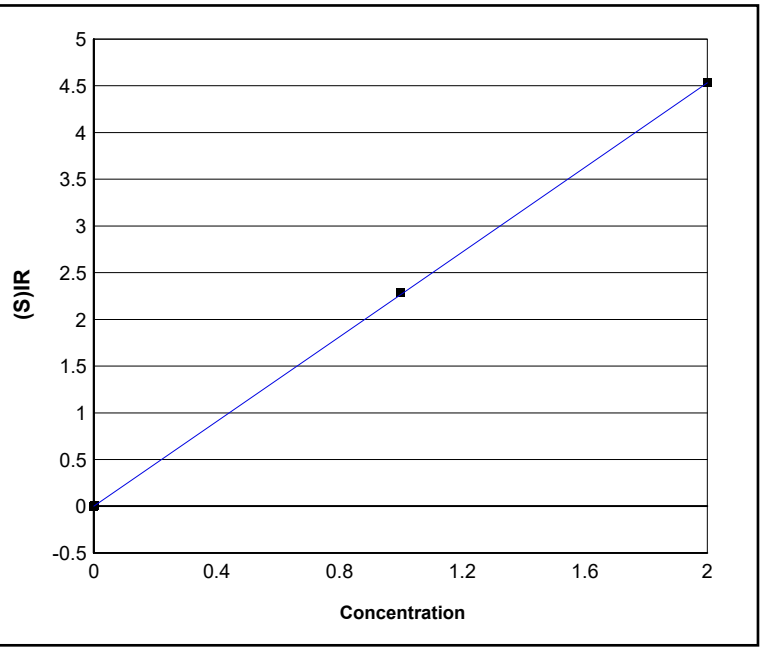
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000013	0.0000000013	0.00000	-0.0091799	0.00054865	1
IC-7028546	0.0020000	0.0019857	-0.000014330	-0.71648	0.012748	0.00088165	1
IC-7032336	1.0000	1.0130	0.012974	1.2974	11.177	0.075023	1
IC-7019492	2.0000	1.9870	-0.012960	-0.64799	21.934	0.036156	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0080364
A1 (Gain):	0.28802
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

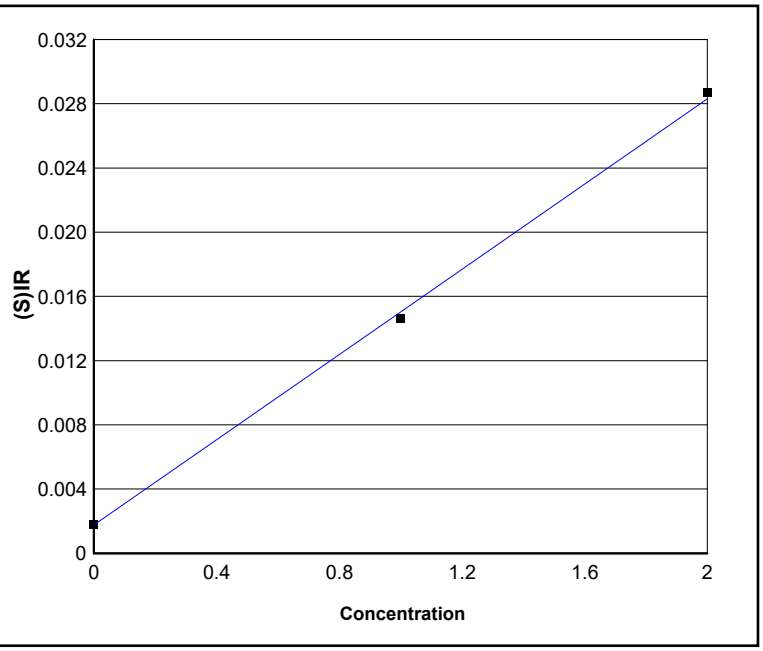
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	-0.000010164	-0.000010164	0.00000	0.0080335	0.000094206	1
IC-7028546	0.50000	0.50803	0.0080312	1.6062	0.15436	0.00023317	1
IC-7032336	50.000	50.435	0.43470	0.86939	14.534	0.10124	1
IC-7019492	100.00	99.557	-0.44273	-0.44273	28.683	0.056803	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00026396
A1 (Gain):	2.2667
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

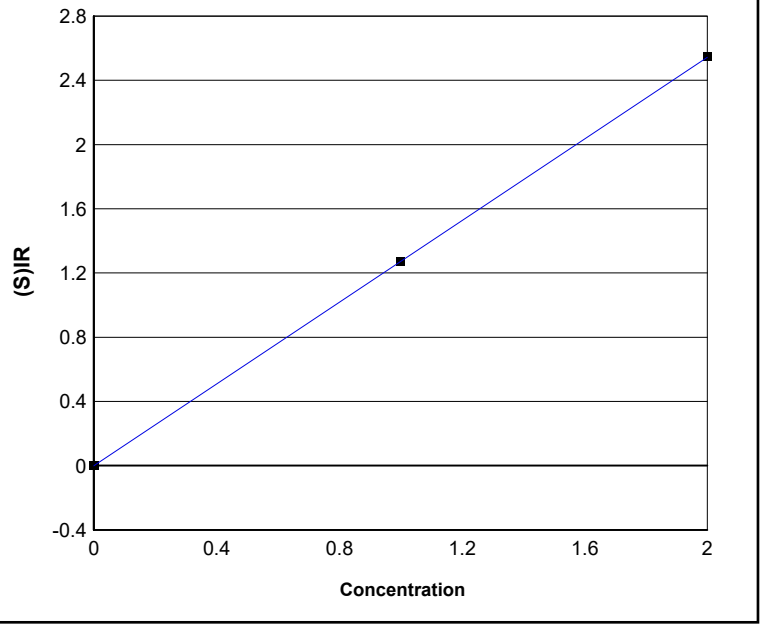
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000349	-0.0000000349	0.00000	-0.00026404	0.00020189	1
IC-7028546	0.0020000	0.0020296	0.000029594	1.4797	0.0044162	0.00017352	1
IC-7032336	1.0000	1.0053	0.0053361	0.53361	2.2844	0.00082301	1
IC-7019492	2.0000	1.9946	-0.0053661	-0.26831	4.5327	0.00090356	1



Element Name:	Ce
Element Wavelength:	Ce 404.076 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.9998
A0 (Offset):	0.001764
A1 (Gain):	0.01327
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

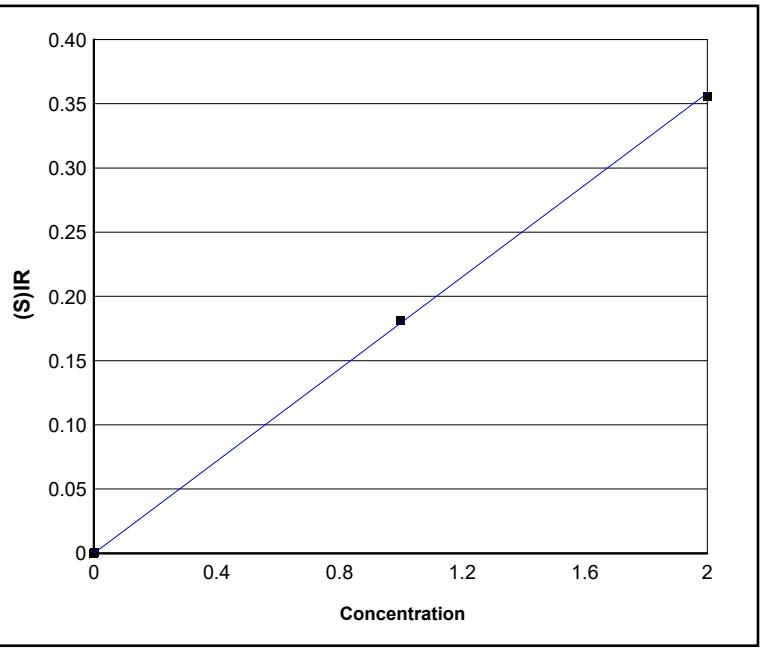
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000	0.00001453	0.00001453	0.0000	0.001764	0.0003024	1
IC-7019492	2.000	2.029	0.02906	1.453	0.02869	0.0007744	1
IC-7032336	1.000	0.9709	-0.02906	-2.906	0.01465	0.0009850	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00044111
A1 (Gain):	1.2719
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

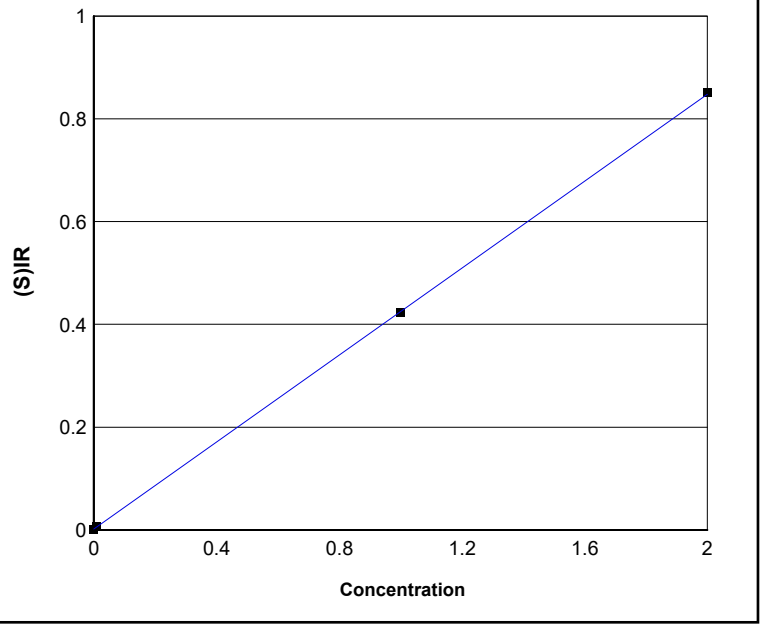
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000932	0.0000000932	0.00000	-0.00044099	0.000042927	1
IC-7028546	0.0040000	0.0039103	-0.000089744	-2.2436	0.0045299	0.000054514	1
IC-7032336	1.0000	0.99818	-0.0018167	-0.18167	1.2699	0.00052230	1
IC-7019492	2.0000	2.0019	0.0019063	0.095316	2.5473	0.000037930	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.000084011
A1 (Gain):	0.17908
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

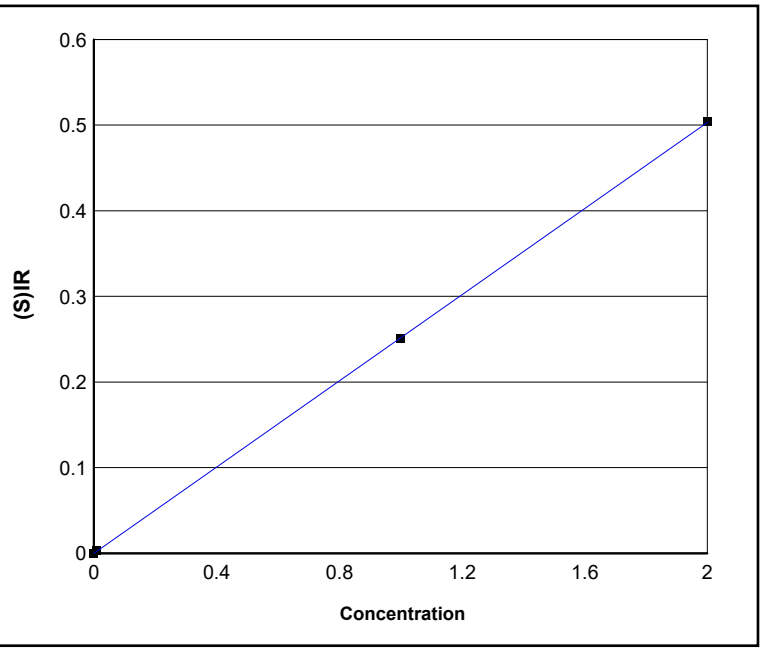
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000077	0.0000000077	0.00000	0.000084013	0.000035106	1
IC-7028546	0.0040000	0.0039654	-0.000034610	-0.86524	0.00079420	0.000038929	1
IC-7032336	1.0000	1.0134	0.013436	1.3436	0.18156	0.00038005	1
IC-7019492	2.0000	1.9866	-0.013401	-0.67005	0.35581	0.00022374	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0017776
A1 (Gain):	0.42309
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

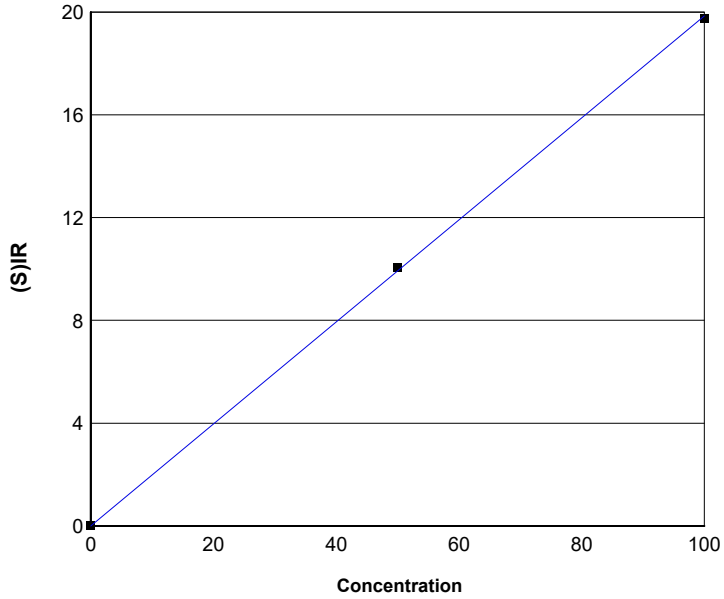
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000004261	-0.0000004261	0.00000	0.0017774	0.000059571	1
IC-7028546	0.010000	0.010461	0.00046083	4.6083	0.0062035	0.00012921	1
IC-7032336	1.0000	0.99352	-0.0064805	-0.64805	0.42212	0.00061137	1
IC-7019492	2.0000	2.0060	0.0060197	0.30099	0.85050	0.0026564	1



Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.000065877
A1 (Gain):	0.25149
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

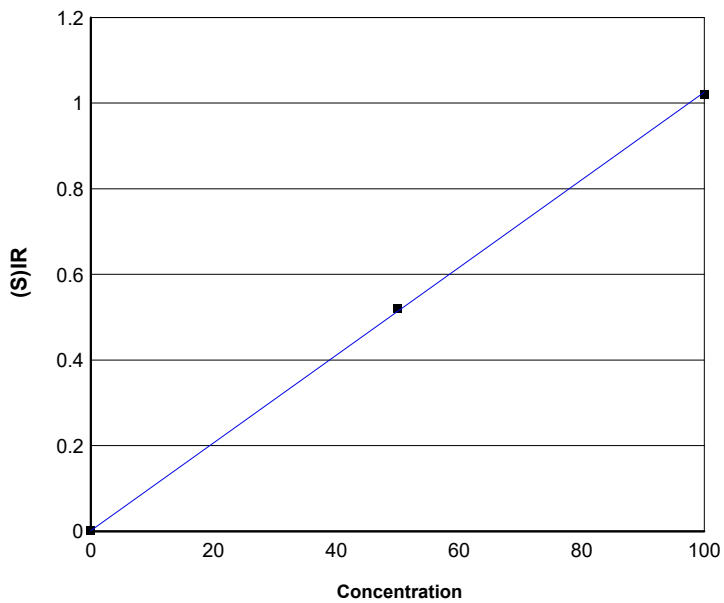
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000002204	-0.0000002204	0.00000	0.000065821	0.000024518	1
IC-7028546	0.010000	0.010237	0.00023731	2.3731	0.0026434	0.000056494	1
IC-7032336	1.0000	0.99685	-0.0031469	-0.31469	0.25106	0.000056303	1
IC-7019492	2.0000	2.0029	0.0029096	0.14548	0.50437	0.00079459	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.00077244
A1 (Gain):	0.19855
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

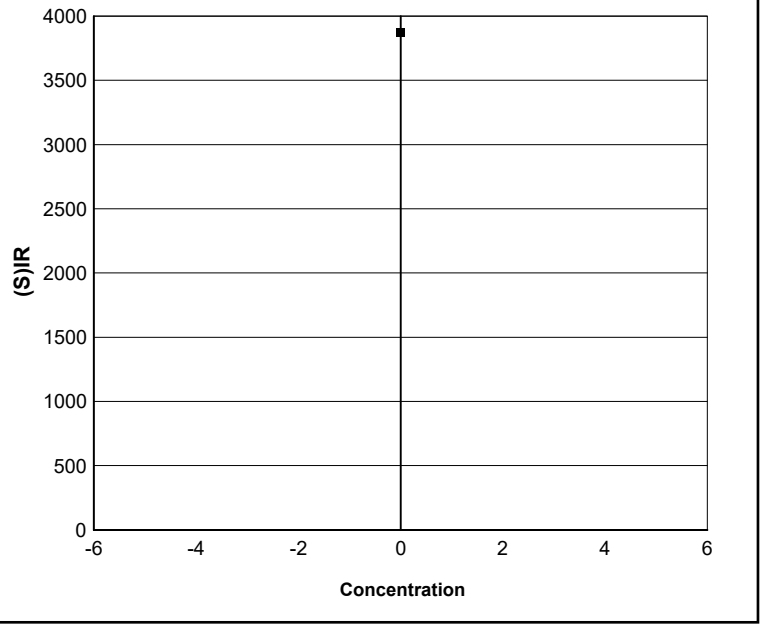
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000005115	-0.0000005115	0.00000	0.00077234	0.00018063	1
IC-7028546	0.050000	0.050193	0.00019278	0.38556	0.010738	0.00040889	1
IC-7032336	50.025	50.663	0.63824	1.2758	10.060	0.060743	1
IC-7019492	100.00	99.362	-0.63843	-0.63843	19.729	0.015874	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99978
A0 (Offset):	0.0013755
A1 (Gain):	0.010244
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

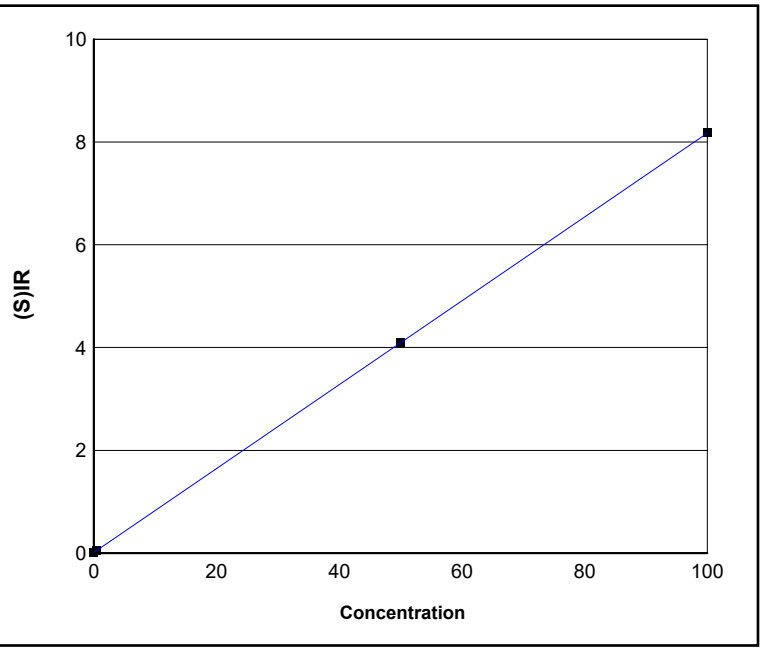
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.000052150	0.000052150	0.00000	0.0013760	0.00024635	1
IC-7028546	0.050000	-0.0025009	-0.052501	-105.00	0.0013499	0.00054050	1
IC-7032336	50.025	50.675	0.64955	1.2985	0.52047	0.0018234	1
IC-7019492	100.00	99.403	-0.59705	-0.59705	1.0196	0.0011198	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:45:15AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

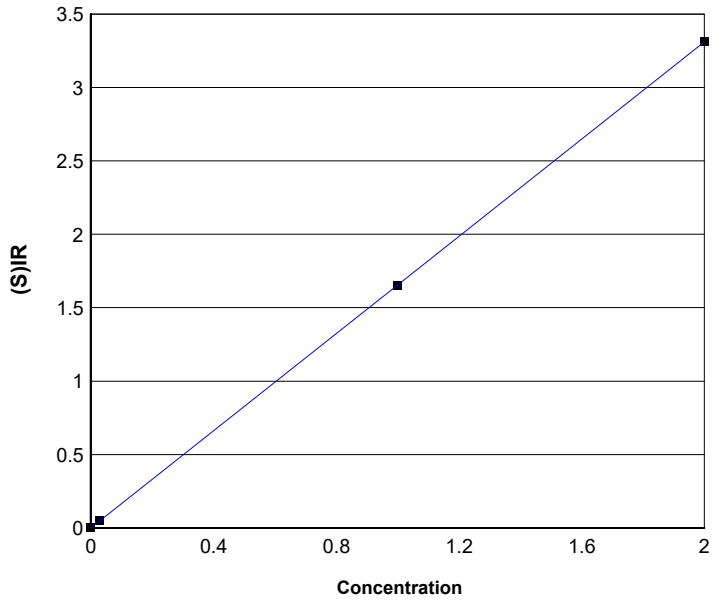
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000			0.0000	3,874	6.126	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	0.011240
A1 (Gain):	0.081655
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

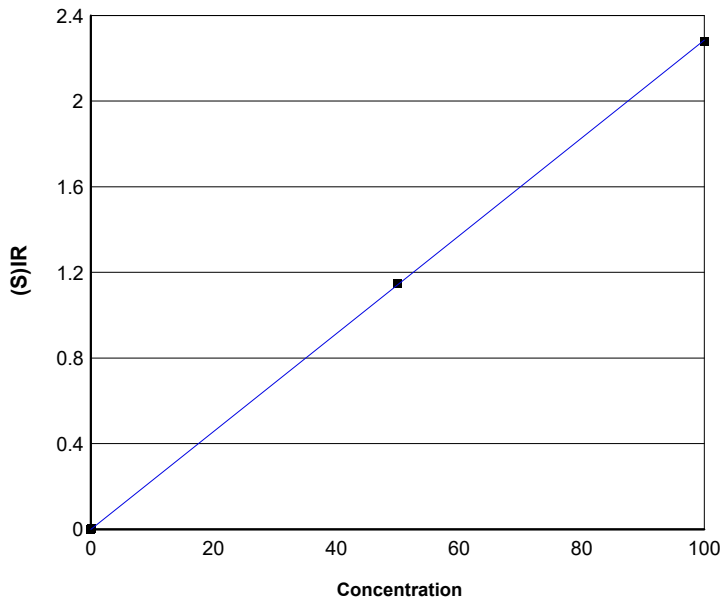
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.00010559	0.00010559	0.00000	0.011248	0.0025345	1
IC-7028546	0.50000	0.39379	-0.10621	-21.243	0.043394	0.0025476	1
IC-7032336	50.000	50.018	0.017544	0.035087	4.0954	0.020446	1
IC-7019492	100.00	100.09	0.088669	0.088669	8.1840	0.011707	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00018056
A1 (Gain):	1.6556
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

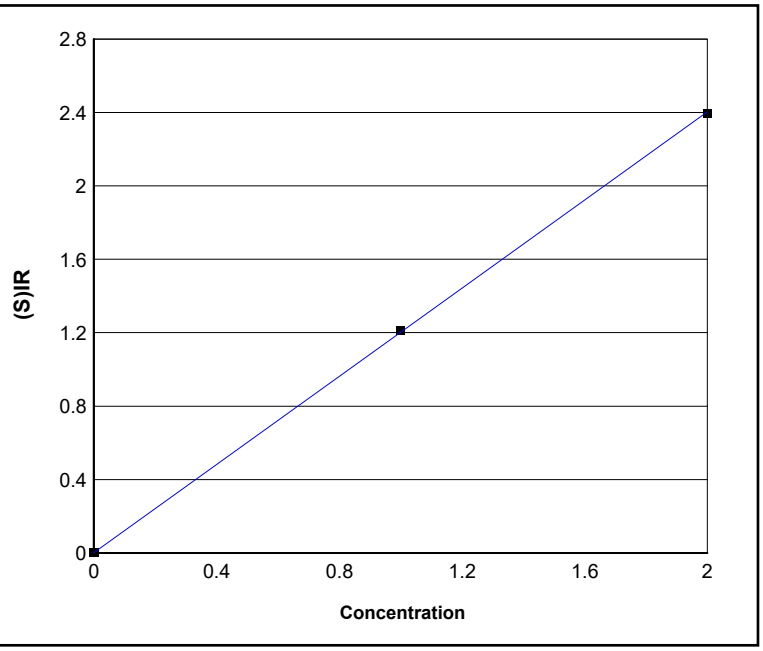
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000005871	0.0000005871	0.00000	0.00018153	0.00036745	1
IC-7028546	0.030000	0.029441	-0.00055917	-1.8639	0.048924	0.0019219	1
IC-7032336	1.0000	0.99758	-0.0024207	-0.24207	1.6518	0.0083936	1
IC-7019492	2.0000	2.0030	0.0029799	0.14899	3.3164	0.0032192	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.000036152
A1 (Gain):	0.022857
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

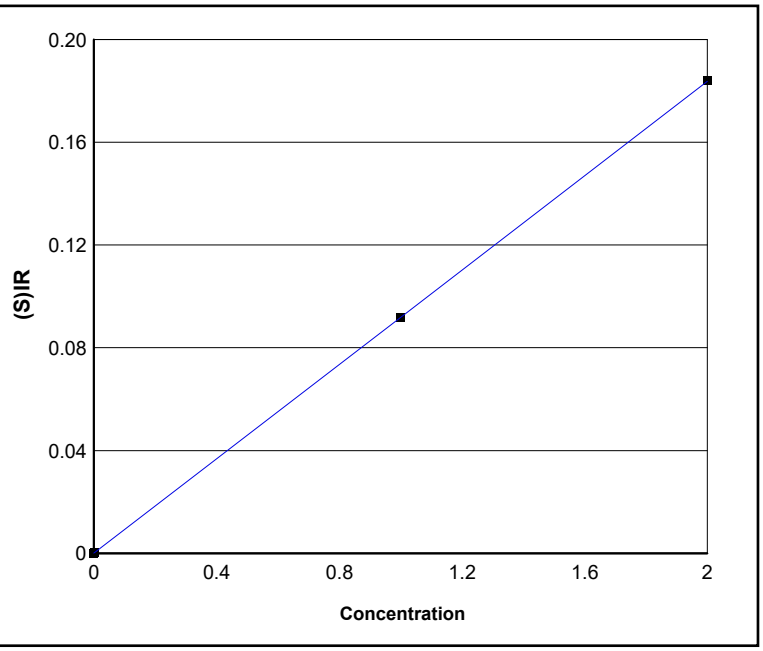
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000041988	0.0000041988	0.00000	0.000036248	0.0000095580	1
IC-7028546	0.20000	0.19520	-0.0048016	-2.4008	0.0044977	0.000020036	1
IC-7032336	50.000	50.297	0.29661	0.59322	1.1496	0.00026905	1
IC-7019492	100.00	99.708	-0.29181	-0.29181	2.2790	0.0012173	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00056831
A1 (Gain):	1.2016
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

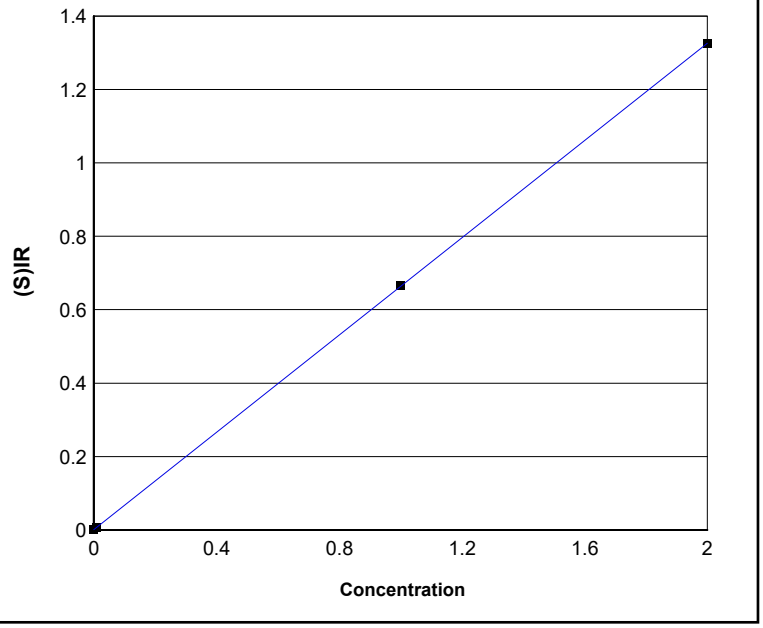
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000002790	-0.0000002790	0.00000	0.00056797	0.000056799	1
IC-7028546	0.0030000	0.0032666	0.00026656	8.8852	0.0044950	0.00010657	1
IC-7032336	1.0000	1.0085	0.0085480	0.85480	1.2128	0.00085880	1
IC-7019492	2.0000	1.9912	-0.0088146	-0.44073	2.3940	0.0013272	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.000069833
A1 (Gain):	0.091848
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

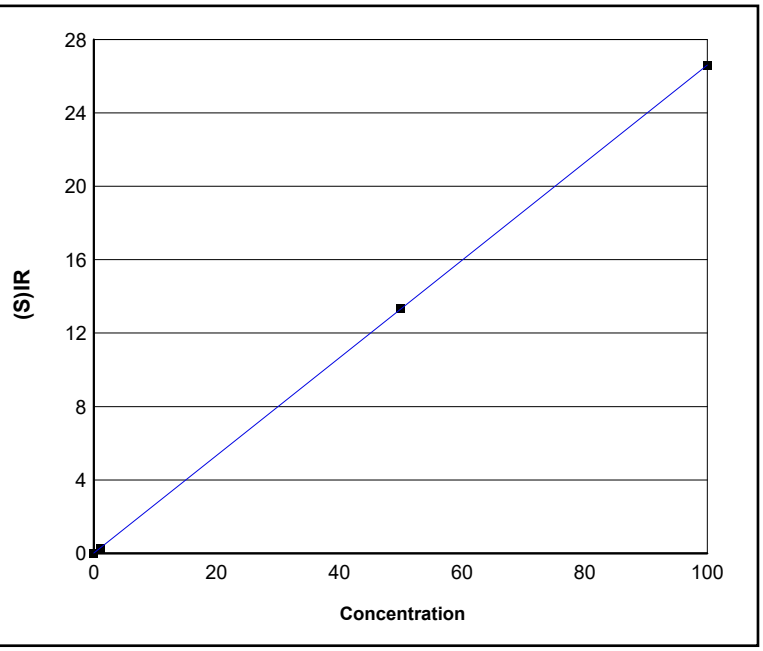
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000002521	-0.0000002521	0.00000	0.000069810	0.000023888	1
IC-7028546	0.0030000	0.0032579	0.00025793	8.5977	0.00036916	0.0000041047	1
IC-7032336	1.0000	0.99639	-0.0036110	-0.36110	0.091614	0.000027820	1
IC-7019492	2.0000	2.0034	0.0033531	0.16765	0.18413	0.00030162	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.0011244
A1 (Gain):	0.66252
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

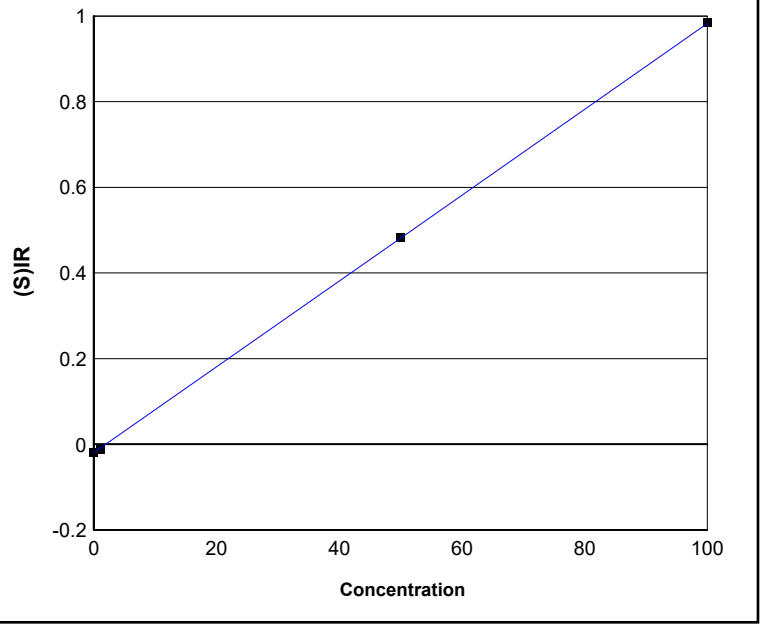
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000012314	0.0000012314	0.00000	0.0011253	0.00012234	1
IC-7028546	0.010000	0.0087447	-0.0012553	-12.553	0.0069180	0.00010840	1
IC-7032336	1.0000	1.0035	0.0035154	0.35154	0.66597	0.0012410	1
IC-7019492	2.0000	1.9977	-0.0022601	-0.11301	1.3247	0.00061252	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0089694
A1 (Gain):	0.26595
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

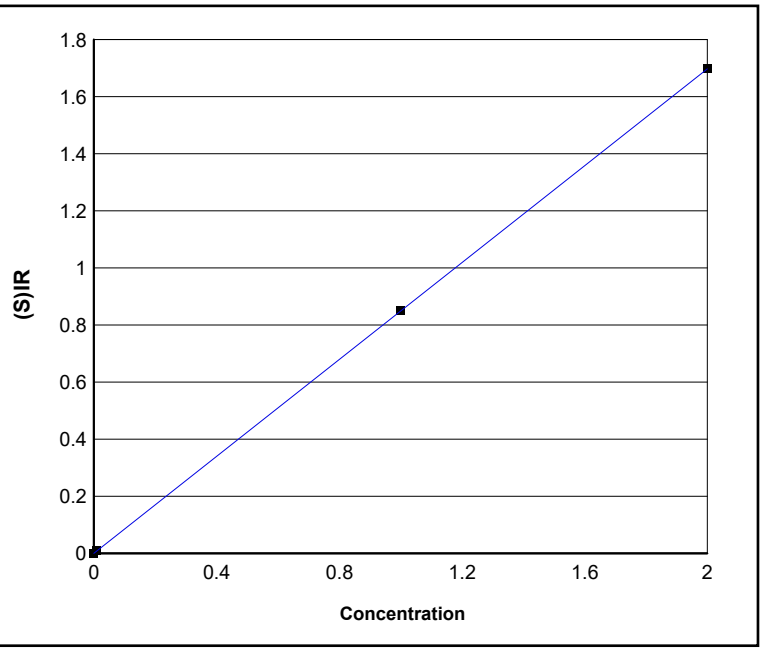
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.000013976	0.000013976	0.00000	0.0089731	0.0019440	1
IC-7028546	1.0000	0.98435	-0.015646	-1.5646	0.27076	0.0028415	1
IC-7032336	50.000	50.151	0.15139	0.30279	13.347	0.091322	1
IC-7019492	100.00	99.864	-0.13575	-0.13575	26.568	0.024867	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99981
A0 (Offset):	-0.019242
A1 (Gain):	0.010017
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

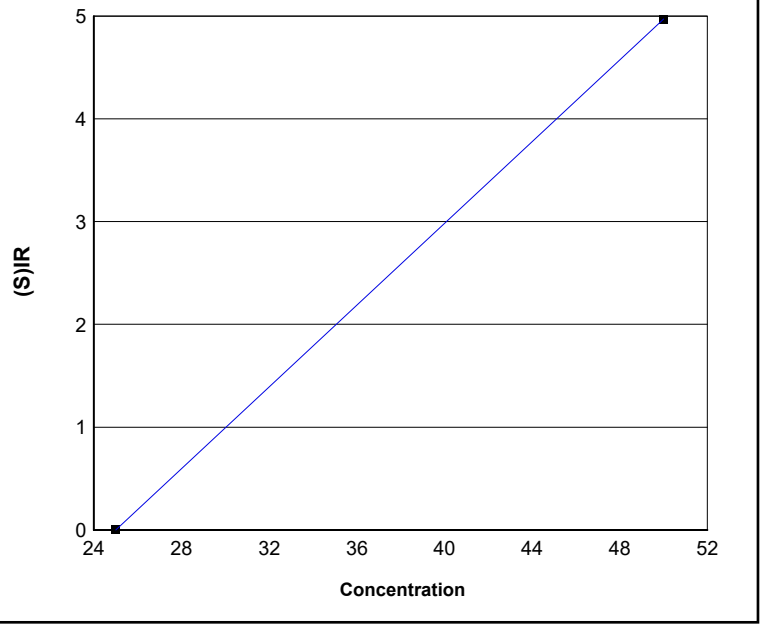
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.00023691	0.00023691	0.00000	-0.019240	0.0016024	1
IC-7028546	1.0000	0.75974	-0.24026	-24.026	-0.011632	0.0015290	1
IC-7032336	50.000	50.095	0.094503	0.18901	0.48256	0.00093343	1
IC-7019492	100.00	100.15	0.14576	0.14576	0.98392	0.0024017	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00033789
A1 (Gain):	0.84831
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

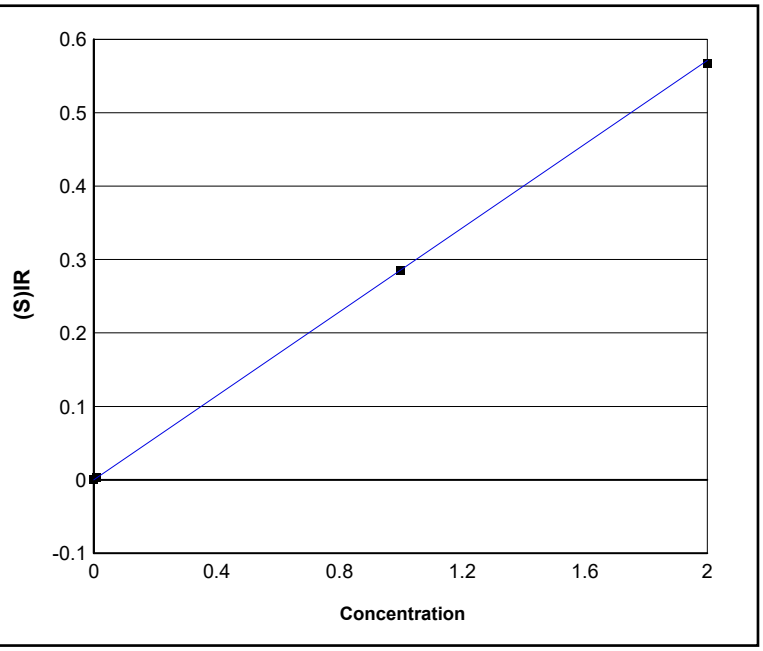
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000003786	0.0000003786	0.00000	0.00033821	0.00015106	1
IC-7028546	0.010000	0.0096160	-0.00038400	-3.8400	0.0084960	0.0000098405	1
IC-7032336	1.0000	1.0007	0.00069897	0.069897	0.85008	0.0020915	1
IC-7019492	2.0000	1.9997	-0.00031532	-0.015766	1.6984	0.00055000	1



Element Name:	P
Element Wavelength:	P 213.618 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-4.971
A1 (Gain):	0.1988
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

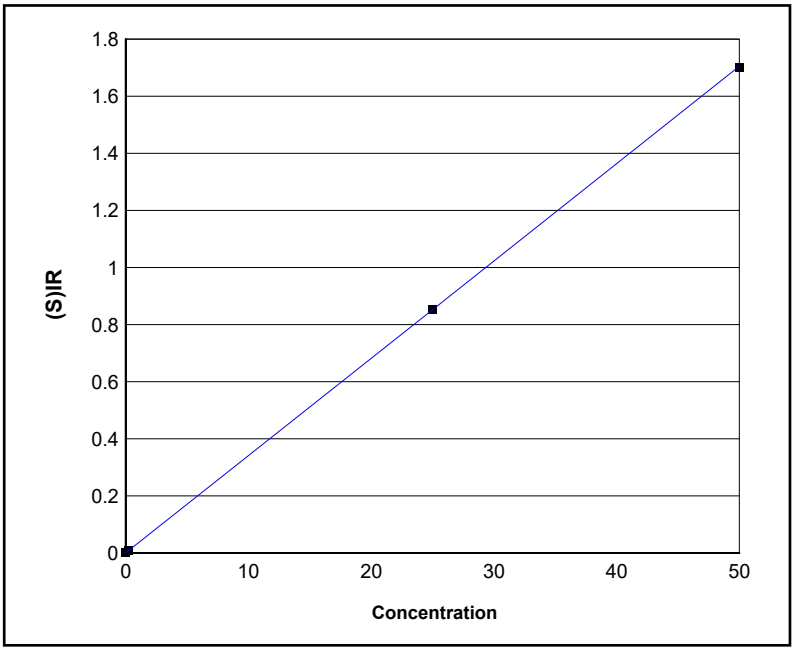
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-7028546	25.00	25.00	0.0000000000	0.0000000000	0.0005811	0.00002137	1
IC-7019492	50.00	50.00	0.0000000000	0.0000000000	4.972	0.004489	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.000087107
A1 (Gain):	0.28571
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

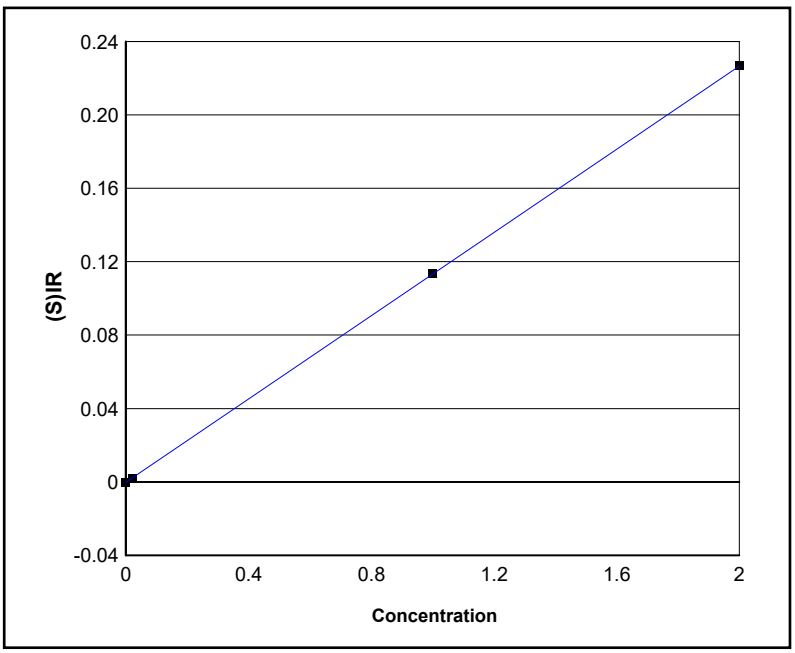
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000007417	-0.0000007417	0.00000	-0.000087319	0.0000067110	1
IC-7028546	0.010000	0.010721	0.00072146	7.2146	0.0029521	0.00030095	1
IC-7032336	1.0000	1.0048	0.0047718	0.47718	0.28555	0.0016178	1
IC-7019492	2.0000	1.9945	-0.0054908	-0.27454	0.56690	0.00060264	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00073004
A1 (Gain):	0.034083
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

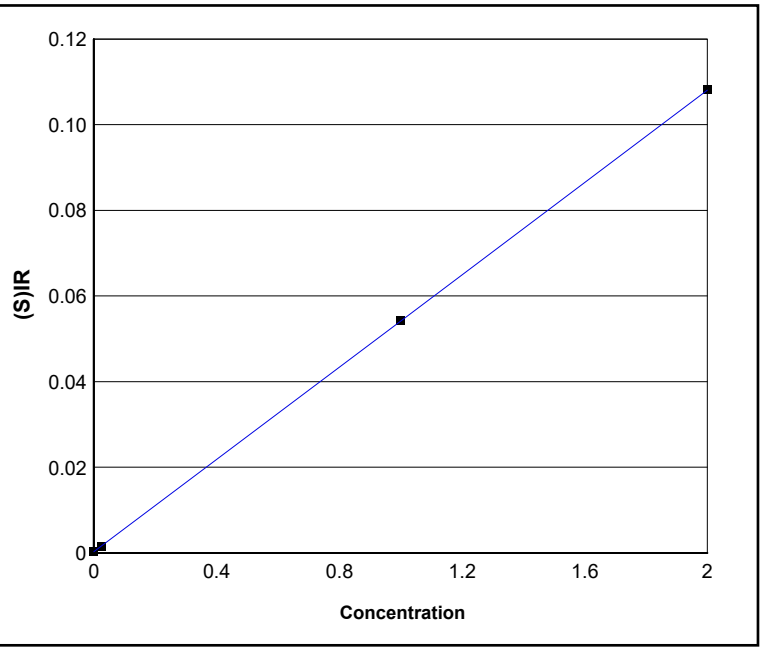
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.000012659	0.000012659	0.00000	0.00073047	0.000092140	1
IC-7028546	0.20000	0.18696	-0.013041	-6.5204	0.0070978	0.000012219	1
IC-7032336	25.000	25.082	0.082410	0.32964	0.85450	0.00071634	1
IC-7019492	50.000	49.931	-0.069361	-0.13872	1.7003	0.00013180	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00023900
A1 (Gain):	0.11346
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

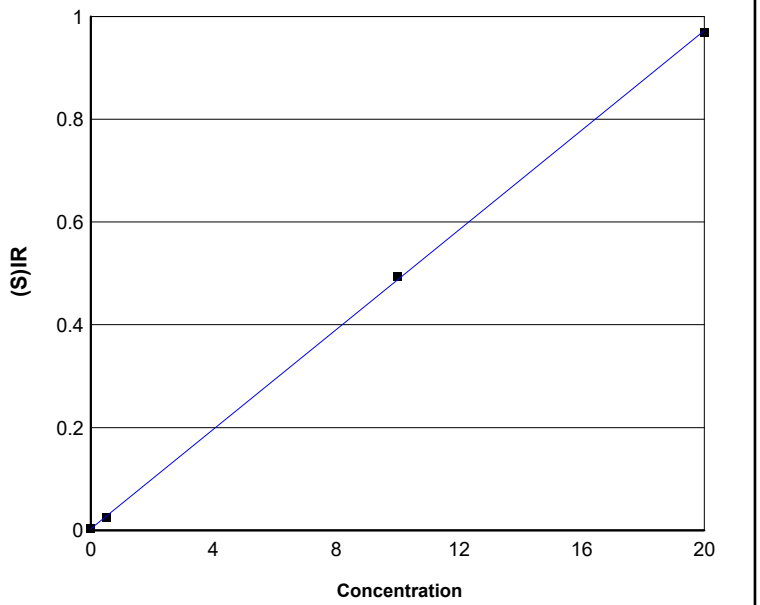
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000109	0.0000000109	0.00000	-0.00023900	0.000027718	1
IC-7028546	0.020000	0.019974	-0.000026292	-0.13146	0.0020291	0.000044336	1
IC-7032336	1.0000	1.0015	0.0015178	0.15178	0.11354	0.00033897	1
IC-7019492	2.0000	1.9985	-0.0014915	-0.074576	0.22680	0.00026626	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.00025304
A1 (Gain):	0.053922
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

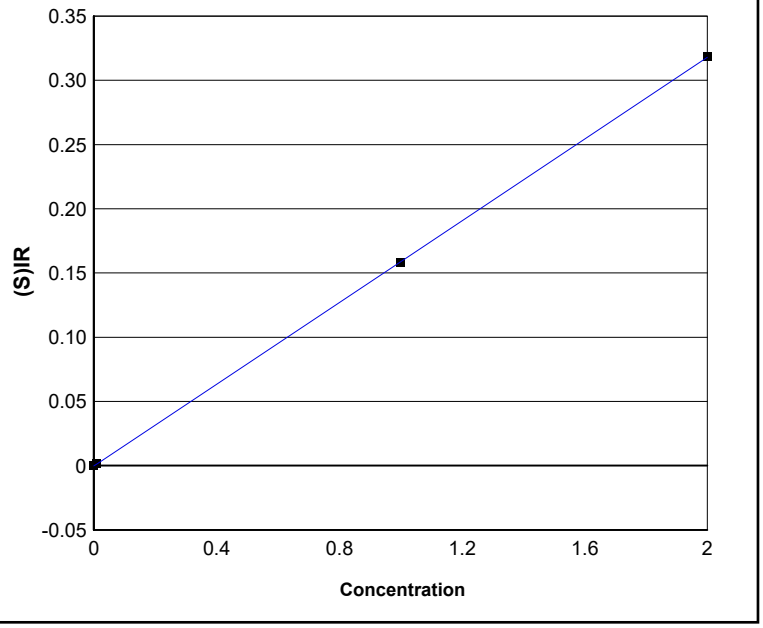
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000030630	0.0000030630	0.00000	0.00025321	0.00014772	1
IC-7028546	0.025000	0.021891	-0.0031087	-12.435	0.0014335	0.000032683	1
IC-7032336	1.0000	1.0005	0.00054568	0.054568	0.054225	0.000043858	1
IC-7019492	2.0000	2.0026	0.0025619	0.12810	0.10828	0.00037560	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.0030960
A1 (Gain):	0.048481
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

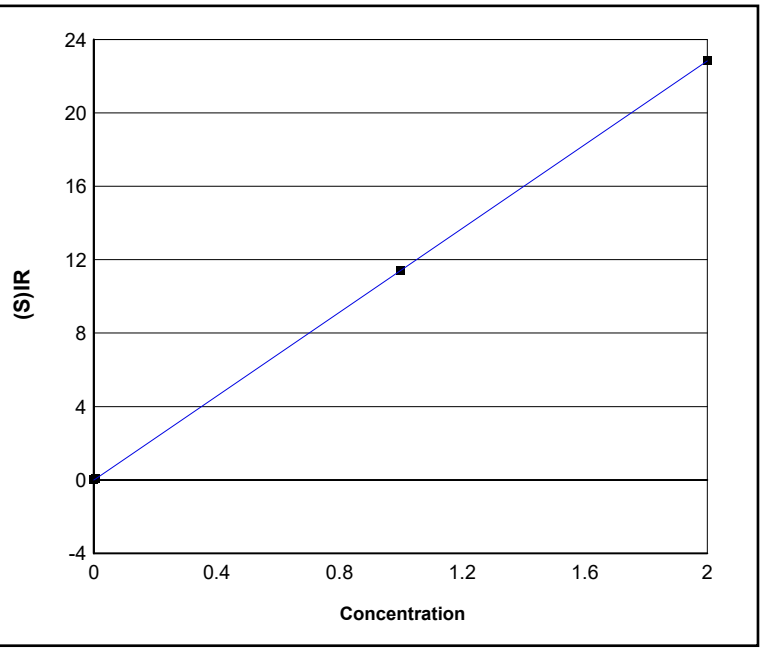
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.000029543	0.000029543	0.00000	0.0030974	0.00034350	1
IC-7028546	0.50000	0.46633	-0.033671	-6.7341	0.025704	0.000077341	1
IC-7032336	10.000	10.131	0.13144	1.3144	0.49428	0.00066485	1
IC-7019492	20.000	19.902	-0.097770	-0.48885	0.96799	0.0066488	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00013330
A1 (Gain):	0.15898
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

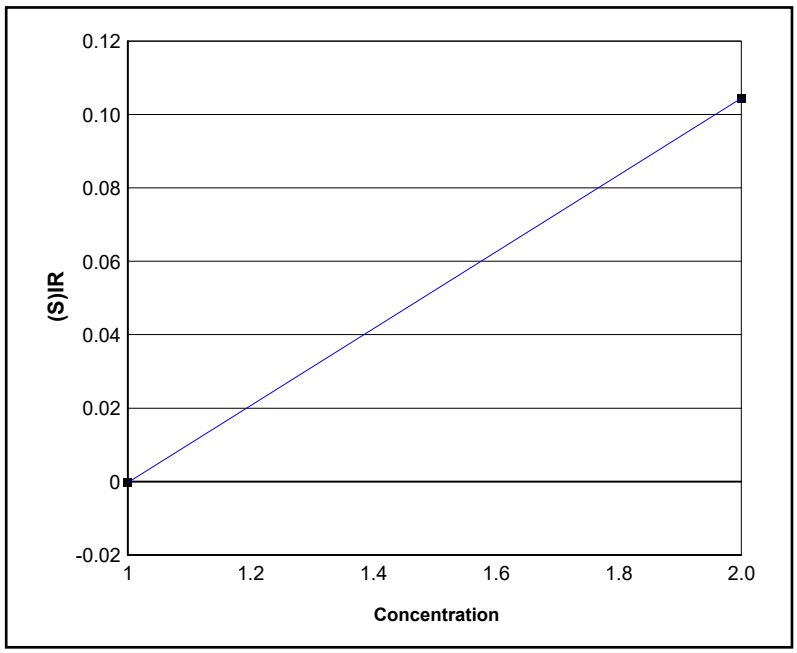
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000601	-0.0000000601	0.00000	-0.00013331	0.000037932	1
IC-7028546	0.010000	0.010083	0.000083427	0.83427	0.0014698	0.0000083433	1
IC-7032336	1.0000	0.99543	-0.0045749	-0.45749	0.15812	0.000064532	1
IC-7019492	2.0000	2.0045	0.0044915	0.22457	0.31854	0.00030234	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.0018284
A1 (Gain):	11.420
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

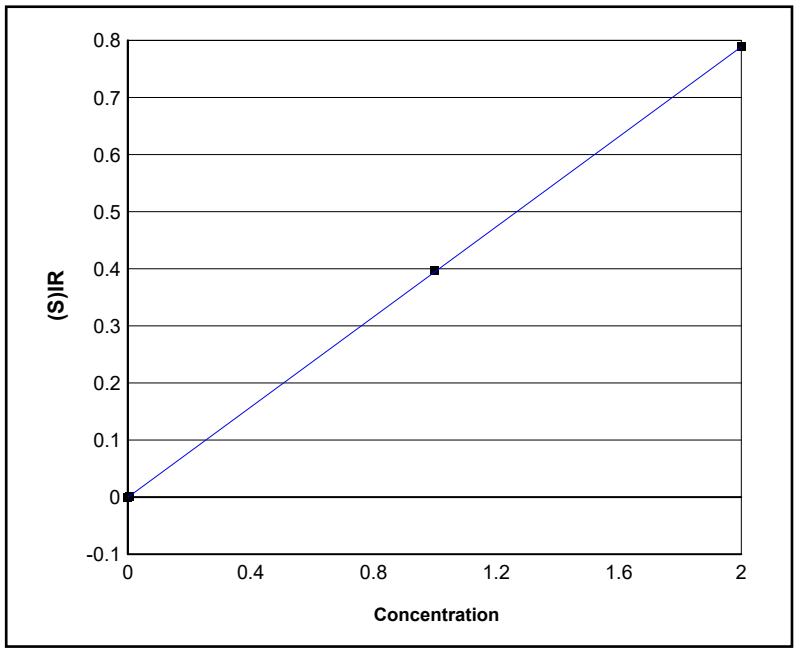
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000572	-0.0000000572	0.00000	-0.0018291	0.00072396	1
IC-7028546	0.0050000	0.0050587	0.000058702	1.1740	0.055940	0.00068244	1
IC-7032336	1.0000	0.99946	-0.00054416	-0.054416	11.412	0.080987	1
IC-7019492	2.0000	2.0005	0.00048545	0.024273	22.843	0.022903	1



Element Name:	Th
Element Wavelength:	Th 283.730 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-0.1051
A1 (Gain):	0.1048
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

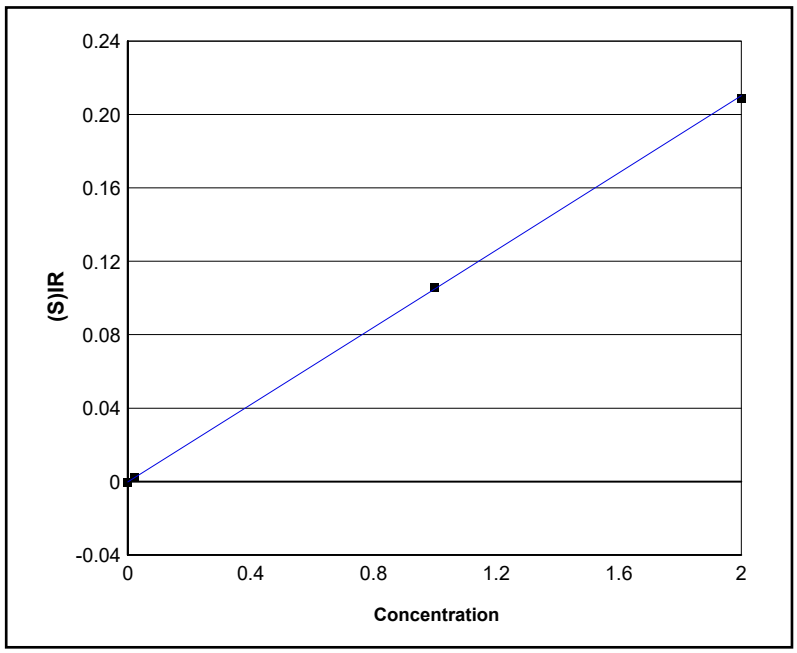
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-7028546	1.000	1.0000	0.0000000000	0.0000000000	-0.0003098	0.0007456	1
IC-7019492	2.000	2.000	0.0000000000	0.0000000000	0.1045	0.0008569	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.00022462
A1 (Gain):	0.39460
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

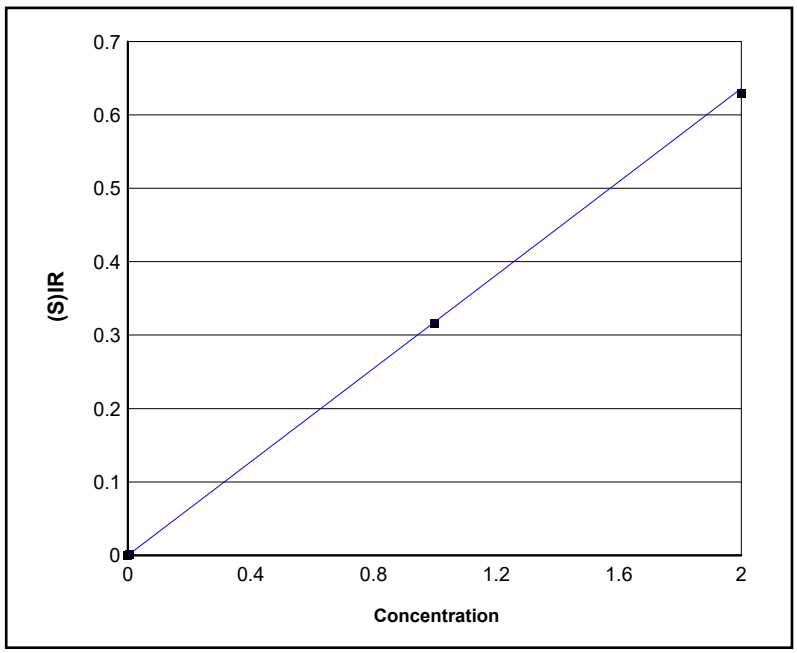
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000009167	0.0000009167	0.00000	-0.00022426	0.00011341	1
IC-7028546	0.0050000	0.0040709	-0.00092909	-18.582	0.0013877	0.000046481	1
IC-7032336	1.0000	1.0040	0.0040295	0.40295	0.39661	0.000015935	1
IC-7019492	2.0000	1.9969	-0.0030991	-0.15496	0.78905	0.00042165	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.00029186
A1 (Gain):	0.10527
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

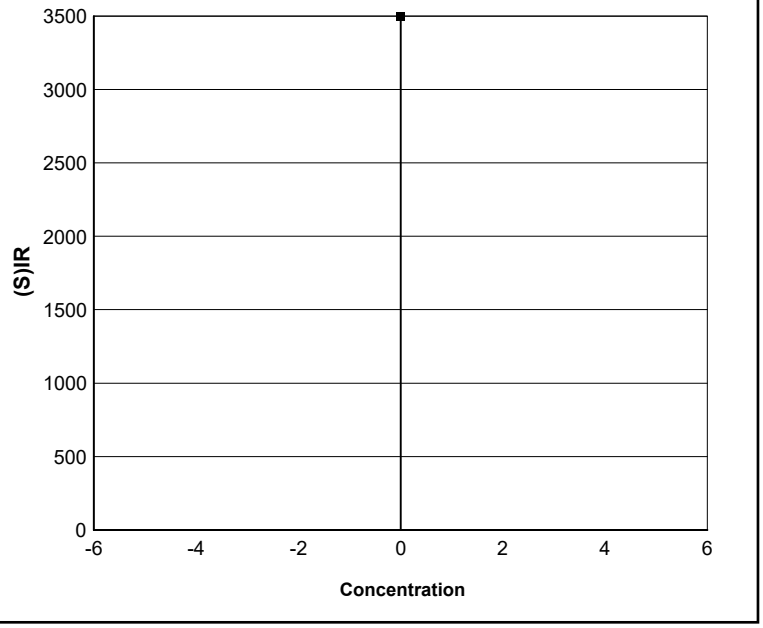
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000008509	-0.0000008509	0.00000	-0.00029195	0.000059046	1
IC-7028546	0.020000	0.020757	0.00075731	3.7866	0.0018919	0.000045647	1
IC-7032336	1.0000	1.0101	0.010118	1.0118	0.10585	0.00029802	1
IC-7019492	2.0000	1.9891	-0.010876	-0.54382	0.20871	0.000098854	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00013118
A1 (Gain):	0.31803
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

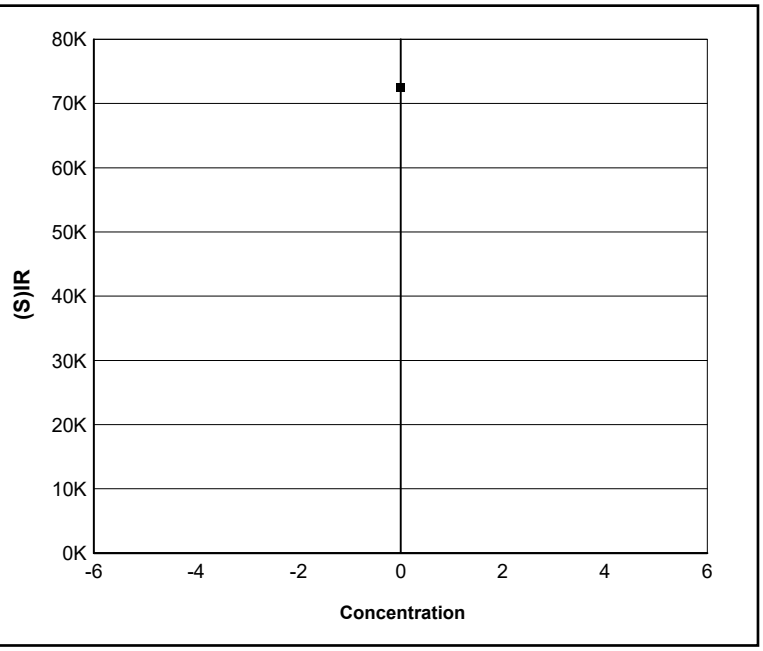
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000002484	0.0000002484	0.00000	0.00013126	0.000063170	1
IC-7028546	0.0050000	0.0047450	-0.00025495	-5.0990	0.0016099	0.00010576	1
IC-7032336	1.0000	1.0024	0.0023870	0.23870	0.31610	0.00022943	1
IC-7019492	2.0000	1.9979	-0.0021347	-0.10673	0.62987	0.00020125	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:45:15AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

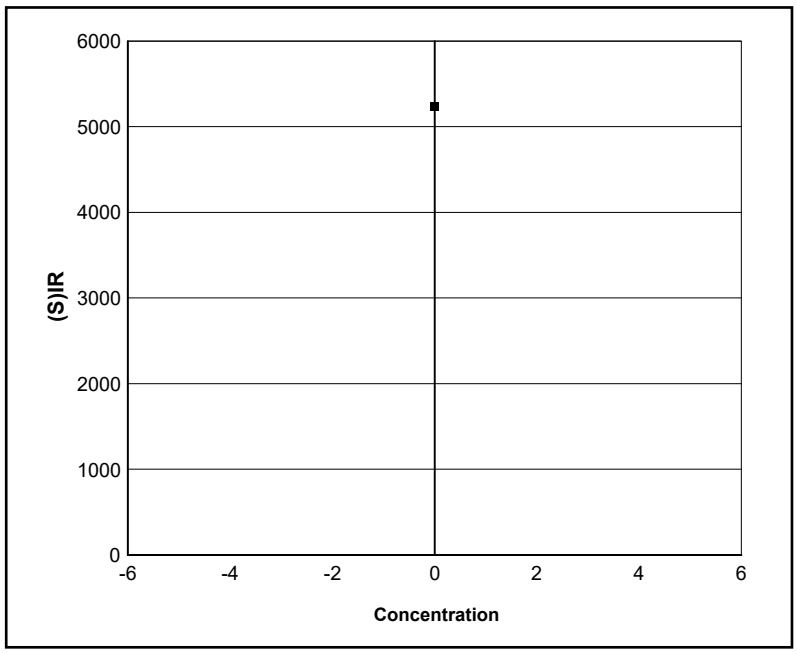
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000			0.0000	3,497	2.540	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:45:15AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

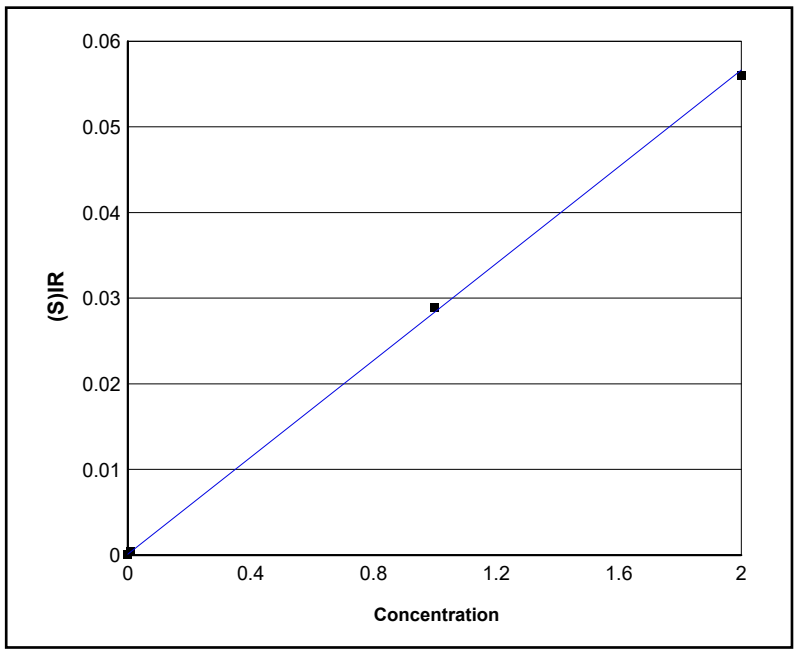
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000			0.0000	72,420	471.3	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:45:15AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

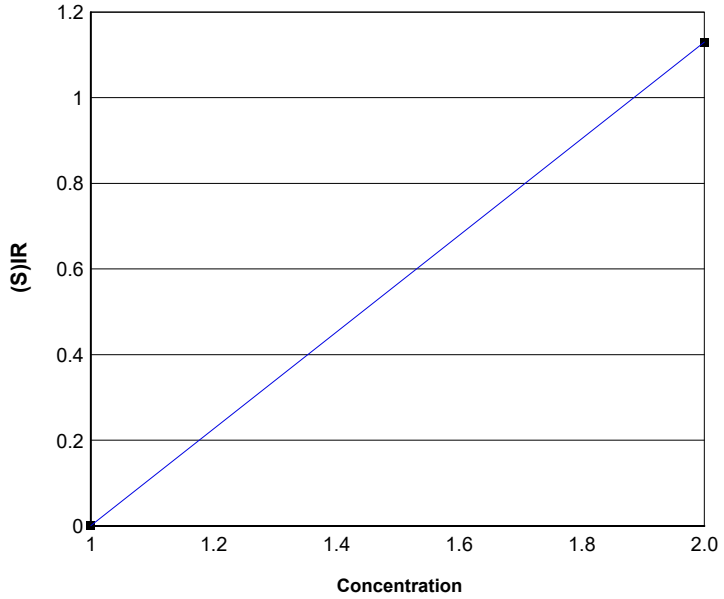
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000			0.0000	5,234	12.00	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.00010615
A1 (Gain):	0.028268
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000003979	0.0000003979	0.00000	0.00010616	0.0000063820	1
IC-7028546	0.010000	0.0095044	-0.00049556	-4.9556	0.00037467	0.0000097116	1
IC-7032336	1.0000	1.0190	0.019027	1.9027	0.028872	0.000011056	1
IC-7019492	2.0000	1.9815	-0.018531	-0.92656	0.056039	0.000059377	1



Element Name:	Zr
Element Wavelength:	Zr 343.823 nm
Concentration Units:	ppm
Date of Calibration:	6/14/2022 11:56:26AM
Date of Fit:	6/14/2022 12:44:23PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-1.129
A1 (Gain):	1.129
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-7028546	1.000	1.000	0.0000000000	0.0000000000	0.0004484	0.0007190	1
IC-7019492	2.000	2.000	0.0000000000	0.0000000000	1.130	0.001253	1

Sample Name: ICIS-7026764 Acquired: 6/14/2022 11:41:26 Type: Cal
Method: ICAP1 Feb 2022(v113) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00039**	**.00151**	**-.00006**	**.00114**	**.00882**
Stddev	.00000	.00083	.00007	.00015	.00220
%RSD	.04948	54.775	109.36	13.505	24.951
#1	-.00039	.00092	-.00001	.00103	.00727
#2	-.00039	.00209	-.00011	.00125	.01038

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00214**	**-.00918**	**.00803**	**-.00026**	**.0018**
Stddev	.00002	.00055	.00009	.00020	.0003
%RSD	.72218	5.9767	1.1727	76.459	17.14
#1	.00215	-.00879	.00810	-.00012	.0016
#2	.00212	-.00957	.00797	-.00041	.0020

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00044**	**.00008**	**.00007**	**.00077**	**.00138**
Stddev	.00004	.00004	.00002	.00018	.00025
%RSD	9.7344	41.786	37.249	23.387	17.903
#1	-.00047	.00006	.00005	.00064	.00155
#2	-.00041	.00011	.00008	.00090	.00120

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01125**	**.00018**	**.00004**	**.00057**	**.00007**
Stddev	.00253	.00037	.00001	.00006	.00002
%RSD	22.533	202.42	26.368	10.000	34.218
#1	.00946	-.00008	.00004	.00061	.00009
#2	.01304	.00044	.00003	.00053	.00005

Sample Name: ICIS-7026764 Acquired: 6/14/2022 11:41:26 Type: Cal
Method: ICAP1 Feb 2022(v113) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00113**	**.00897**	**-.01924**	**.00034**	**-.00009**
Stddev	.00012	.00194	.00160	.00015	.00001
%RSD	10.872	21.665	8.3284	44.664	7.6856
#1	.00104	.01035	-.01811	.00023	-.00008
#2	.00121	.00760	-.02037	.00045	-.00009

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00073**	**-.00024**	**.00025**	**.00310**	**-.00013**
Stddev	.00009	.00003	.00015	.00034	.00004
%RSD	12.614	11.598	58.341	11.090	28.454
#1	.00067	-.00026	.00015	.00285	-.00011
#2	.00080	-.00022	.00036	.00334	-.00016

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00183**	**-.00022**	**-.00029**	**.00013**	**.00011**
Stddev	.00072	.00011	.00006	.00006	.00001
%RSD	39.581	50.570	20.224	48.125	6.0114
#1	-.00234	-.00014	-.00033	.00018	.00010
#2	-.00132	-.00030	-.00025	.00009	.00011

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3873.8**	**3496.6**	**72420.**	**5233.6**
Stddev	6.1	2.5	471.	12.0
%RSD	.15814	.07263	.65079	.22938
#1	3869.5	3494.8	72087.	5225.1
#2	3878.2	3498.4	72753.	5242.1

Sample Name: IC-7028546 Acquired: 6/14/2022 11:45:19 Type: Cal
Method: ICAP1 Feb 2022(v113) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00140**	**.00785**	**.00096**	**.00889**	**.02396**
Stddev	.00005	.00036	.00010	.00024	.00054
%RSD	3.7366	4.5717	10.384	2.6664	2.2460
#1	.00136	.00760	.00103	.00906	.02434
#2	.00143	.00811	.00089	.00872	.02358

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02553**	**.01275**	**.15436**	**.00442**	**.00453**
Stddev	.00001	.00088	.00023	.00017	.00005
%RSD	.05028	6.9161	.15105	3.9290	1.2034
#1	.02554	.01337	.15453	.00429	.00449
#2	.02552	.01212	.15420	.00454	.00457

Elem	Cr2677	Cu3273	Fe2599	Fe2714	K_7664
Line	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}	766.490 { 44}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00079**	**.00264**	**.01074**	**.00135**	**.04339**
Stddev	.00004	.00006	.00041	.00054	.00255
%RSD	4.9016	2.1372	3.8078	40.041	5.8709
#1	.00077	.00268	.01103	.00097	.04159
#2	.00082	.00260	.01045	.00173	.04520

Elem	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020
Line	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2	202.030 {467}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.04892**	**.00450**	**.00449**	**.00037**	**.00692**
Stddev	.00192	.00002	.00011	.00000	.00011
%RSD	3.9284	.44547	2.3709	1.1119	1.5669
#1	.04756	.00448	.00457	.00037	.00699
#2	.05028	.00451	.00442	.00037	.00684

Sample Name: IC-7028546 Acquired: 6/14/2022 11:45:19 Type: Cal
Method: ICAP1 Feb 2022(v113) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Na8183	Ni2316	P_2136	Pb2203
Line	589.592 { 57}	818.326 { 41}	231.604 {446}	213.618 {458}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.27076**	**-.01163**	**.00850**	**.0006**	**.00295**
Stddev	.00284	.00153	.00001	.0000	.00030
%RSD	1.0495	13.145	.11582	3.678	10.194
#1	.27276	-.01271	.00850	.0006	.00316
#2	.26875	-.01055	.00849	.0006	.00274

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00710**	**.00203**	**.00143**	**.02570**	**.00147**
Stddev	.00001	.00004	.00003	.00008	.00001
%RSD	.17215	2.1850	2.2799	.30089	.56766
#1	.00711	.00200	.00141	.02565	.00146
#2	.00709	.00206	.00146	.02576	.00148

Elem	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Line	407.771 { 83}	283.730 {119}	334.904 {101}	190.856 {477}	292.402 {115}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.05594**	**-.0003**	**.00139**	**.00189**	**.00161**
Stddev	.00068	.0007	.00005	.00005	.00011
%RSD	1.2199	240.7	3.3496	2.4127	6.5694
#1	.05546	-.0008	.00142	.00192	.00168
#2	.05642	.0002	.00135	.00186	.00154

Elem	Zn2062	Zr3438
Line	206.200 {163}	343.823 { 98}
Units	Cts/S	Cts/S
Avg	**.00037**	**.0004**
Stddev	.00001	.0007
%RSD	2.5920	160.3
#1	.00037	.0010
#2	.00038	-.0001

Sample Name: IC-7028546 Acquired: 6/14/2022 11:45:19 Type: Cal
Method: ICAP1 Feb 2022(v113) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3958.6**	**3595.8**	**74019.**	**5440.7**
Stddev	1.8	1.1	39.	21.6
%RSD	.04657	.02975	.05261	.39687
#1	3957.3	3595.1	73991.	5425.4
#2	3959.9	3596.6	74046.	5456.0

Sample Name: IC-7032336 Acquired: 6/14/2022 11:49:12 Type: Cal
Method: ICAP1 Feb 2022(v113) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.29977**	**1.5775**	**.06721**	**.41331**	**6.6513**
Stddev	.00034	.0091	.00012	.00070	.0334
%RSD	.11505	.57466	.18577	.16870	.50188
#1	.30002	1.5839	.06712	.41282	6.6749
#2	.29953	1.5711	.06730	.41381	6.6277

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11.134**	**11.177**	**14.534**	**2.2844**	**.0146**
Stddev	.023	.075	.101	.0008	.0010
%RSD	.20801	.67121	.69657	.03603	6.724
#1	11.118	11.230	14.606	2.2838	.0153
#2	11.151	11.124	14.463	2.2850	.0140

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.2699**	**.18156**	**.25106**	**10.060**	**.52047**
Stddev	.0005	.00038	.00006	.061	.00182
%RSD	.04113	.20933	.02243	.60381	.35033
#1	1.2703	.18182	.25102	10.103	.52176
#2	1.2695	.18129	.25110	10.017	.51918

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.0954**	**1.6518**	**1.1496**	**1.2128**	**.09161**
Stddev	.0204	.0084	.0003	.0009	.00003
%RSD	.49925	.50815	.02340	.07081	.03037
#1	4.1099	1.6577	1.1498	1.2122	.09159
#2	4.0810	1.6459	1.1494	1.2134	.09163

Sample Name: IC-7032336 Acquired: 6/14/2022 11:49:12 Type: Cal
Method: ICAP1 Feb 2022(v113) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.66597**	**13.347**	**.48256**	**.85008**	**.28555**
Stddev	.00124	.091	.00093	.00209	.00162
%RSD	.18635	.68423	.19343	.24603	.56654
#1	.66685	13.411	.48322	.85156	.28670
#2	.66510	13.282	.48190	.84860	.28441

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.85450**	**.11354**	**.05423**	**.49428**	**.15812**
Stddev	.00072	.00034	.00004	.00066	.00006
%RSD	.08383	.29855	.08088	.13451	.04081
#1	.85400	.11330	.05419	.49475	.15817
#2	.85501	.11378	.05426	.49381	.15808

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**11.412**	**.39661**	**.10585**	**.31610**	**.02887**
Stddev	.081	.00002	.00030	.00023	.00001
%RSD	.70969	.00402	.28156	.07258	.03829
#1	11.469	.39662	.10606	.31626	.02888
#2	11.354	.39660	.10564	.31594	.02886

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3370.4**	**3370.5**	**68307.**	**5258.0**
Stddev	1.6	3.7	71.	45.9
%RSD	.04720	.10862	.10332	.87261
#1	3369.3	3373.0	68257.	5225.6
#2	3371.6	3367.9	68357.	5290.5

Sample Name: IC-7019492 Acquired: 6/14/2022 11:52:52 Type: Cal
Method: ICAP1 Feb 2022(v113) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.59600**	**3.1280**	**.13355**	**.79876**	**13.234**
Stddev	.00053	.0030	.00019	.00159	.006
%RSD	.08949	.09494	.13997	.19870	.04914
#1	.59638	3.1259	.13368	.79988	13.230
#2	.59563	3.1301	.13342	.79764	13.239

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**21.717**	**21.934**	**28.683**	**4.5327**	**.0287**
Stddev	.059	.036	.057	.0009	.0008
%RSD	.27378	.16484	.19804	.01993	2.699
#1	21.759	21.908	28.643	4.5320	.0281
#2	21.675	21.960	28.723	4.5333	.0292

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.5473**	**.35581**	**.50437**	**19.729**	**1.0196**
Stddev	.0000	.00022	.00079	.016	.0011
%RSD	.00149	.06288	.15754	.08046	.10982
#1	2.5472	.35566	.50493	19.718	1.0188
#2	2.5473	.35597	.50381	19.740	1.0204

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**8.1840**	**3.3164**	**2.2790**	**2.3940**	**.18413**
Stddev	.0117	.0032	.0012	.0013	.00030
%RSD	.14305	.09707	.05341	.05544	.16381
#1	8.1757	3.3187	2.2798	2.3949	.18434
#2	8.1923	3.3141	2.2781	2.3930	.18392

Sample Name: IC-7019492 Acquired: 6/14/2022 11:52:52 Type: Cal
Method: ICAP1 Feb 2022(v113) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	P_2136
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	213.618 {458}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.3247**	**26.568**	**.98392**	**1.6984**	**4.972**
Stddev	.0006	.025	.00240	.0006	.004
%RSD	.04624	.09360	.24410	.03238	.0903
#1	1.3251	26.550	.98222	1.6980	4.975
#2	1.3242	26.585	.98562	1.6988	4.969

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.56690**	**1.7003**	**.22680**	**.10828**	**.96799**
Stddev	.00060	.0001	.00027	.00038	.00665
%RSD	.10630	.00775	.11740	.34688	.68687
#1	.56647	1.7004	.22699	.10801	.96328
#2	.56732	1.7002	.22661	.10854	.97269

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908
Line	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}	190.856 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.31854**	**22.843**	**.1045**	**.78905**	**.20871**
Stddev	.00030	.023	.0009	.00042	.00010
%RSD	.09491	.10026	.8201	.05344	.04736
#1	.31833	22.827	.1051	.78935	.20864
#2	.31876	22.859	.1039	.78875	.20878

Elem	V_2924	Zn2062	Zr3438
Line	292.402 {115}	206.200 {163}	343.823 { 98}
Units	Cts/S	Cts/S	Cts/S
Avg	**.62987**	**.05604**	**1.130**
Stddev	.00020	.00006	.001
%RSD	.03195	.10596	.1110
#1	.63002	.05608	1.129
#2	.62973	.05600	1.131

Sample Name: IC-7019492 Acquired: 6/14/2022 11:52:52 Type: Cal
Method: ICAP1 Feb 2022(v113) Mode: IR Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3221.5**	**3317.7**	**67192.**	**5297.3**
Stddev	2.6	3.1	70.	3.7
%RSD	.08226	.09430	.10482	.07042
#1	3219.7	3315.5	67143.	5299.9
#2	3223.4	3319.9	67242.	5294.6

Sample Name: ICV-7032328 Acquired: 6/14/2022 11:56:30 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.75022**	**36.767**	**.74229**	**.77683**	**.74185**
Stddev	.00130	.012	.00173	.00206	.00040
%RSD	.17342	.03217	.23240	.26492	.05328
#1	.75114	36.758	.74107	.77537	.74157
#2	.74930	36.775	.74350	.77828	.74213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.75211**	**37.283**	**.74499**	**.4398**	**.73803**
Stddev	.00043	.048	.00141	.0807	.00060
%RSD	.05762	.12791	.18876	18.35	.08156
#1	.75242	37.317	.74399	.4969	.73846
#2	.75181	37.249	.74598	.3828	.73761
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.75800**	**.74148**	**37.817**	**36.823**	**.73355**
Stddev	.00060	.00239	.093	.031	.00182
%RSD	.07858	.32241	.24485	.08302	.24782
#1	.75842	.74317	37.883	36.844	.73226
#2	.75758	.73979	37.752	36.801	.73483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICV-7032328 Acquired: 6/14/2022 11:56:30 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.417**	**.76237**	**.75450**	**36.720**	**.74188**
Stddev	.042	.00139	.00038	.042	.00197
%RSD	.11245	.18282	.05074	.11568	.26609
#1	37.447	.76336	.75477	36.750	.74327
#2	37.387	.76139	.75423	36.690	.74048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.44**	**.74317**	**18.641**	W **.69702**	**.75996**
Stddev	.00	.00221	.010	.00910	.00299
%RSD	.0048	.29765	.05362	1.3054	.39290
#1	34.44	.74474	18.634	.70345	.76207
#2	34.44	.74161	18.648	.69059	.75785
Check ?	None	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				.75000	
Range				-5.0000%	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.7564**	**.72794**	**.74330**	**1.034**	**.74995**
Stddev	.0379	.00098	.00161	.003	.00174
%RSD	.48808	.13500	.21665	.2649	.23249
#1	7.7296	.72725	.74444	1.036	.75118
#2	7.7831	.72864	.74216	1.032	.74872
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: ICV-7032328 Acquired: 6/14/2022 11:56:30 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.76155**	**.74523**	**.75796**	**1.001**
Stddev	.00095	.00256	.00105	.001
%RSD	.12512	.34333	.13795	.1148
#1	.76087	.74704	.75870	1.0000
#2	.76222	.74342	.75722	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3466.0**	**3427.7**	**69205.**	**5304.0**
Stddev	2.8	1.2	135.	8.5
%RSD	.08127	.03417	.19475	.15941
#1	3464.0	3428.5	69110.	5298.1
#2	3468.0	3426.8	69301.	5310.0

Sample Name: ICB-7026764 Acquired: 6/14/2022 12:00:12 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**.01281**	**.00292**	**.00185**	**.00003**
Stddev	.00000	.01839	.00032	.00004	.00002
%RSD	.86067	143.55	11.018	2.4231	55.668
#1	.00050	.02581	.00269	.00189	.00002
#2	.00050	-.00019	.00314	.00182	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00316**	**-.00013**	**.0284**	**.00014**
Stddev	.00003	.00012	.00002	.0436	.00004
%RSD	93.964	3.8026	12.441	153.5	30.040
#1	.00005	-.00324	-.00012	-.0024	.00016
#2	.00001	-.00307	-.00014	.0592	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00024**	**.00158**	**.05932**	**.00337**
Stddev	.00020	.00051	.00014	.04330	.00035
%RSD	74.682	216.96	8.7136	72.994	10.384
#1	-.00041	.00060	.00148	.02870	.00312
#2	-.00013	-.00013	.00168	.08993	.00361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-7026764 Acquired: 6/14/2022 12:00:12 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00292**	**.00004**	**.00086**	**-.00019**	**.00018**
Stddev	.00189	.00009	.00021	.00266	.00002
%RSD	64.629	212.43	24.801	1379.5	12.538
#1	-.00159	-.00002	.00071	-.00207	.00016
#2	-.00426	.00010	.00101	.00169	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00138**	**-.00324**	**.01023**	**.00257**
Stddev	.00	.00021	.00092	.00161	.00031
%RSD	.0037	15.357	28.314	15.788	12.110
#1	25.00	.00153	-.00259	.01137	.00235
#2	25.00	.00123	-.00389	.00909	.00279
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02829**	**.00048**	**.00010**	**1.002**	**-.00012**
Stddev	.01238	.00024	.00010	.010	.00012
%RSD	43.749	50.868	98.490	.9592	99.018
#1	-.03705	.00065	.00017	.9952	-.00020
#2	-.01954	.00031	.00003	1.009	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-7026764 Acquired: 6/14/2022 12:00:12 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00212**	**.00009**	**-.00178**	**1.000**
Stddev	.00020	.00021	.00017	.000
%RSD	9.2071	230.67	9.7226	.0180
#1	.00226	.00024	-.00165	.9999
#2	.00198	-.00006	-.00190	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3937.4**	**3550.0**	**72901.**	**5351.1**
Stddev	4.6	1.1	290.	28.2
%RSD	.11644	.03032	.39777	.52653
#1	3940.6	3550.8	72696.	5331.1
#2	3934.2	3549.3	73107.	5371.0

Sample Name: ICVL-7028546 Acquired: 6/14/2022 12:04:05 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00606**	**.21778**	**.01630**	**.01964**	**.00210**
Stddev	.00039	.00961	.00122	.00041	.00003
%RSD	6.3535	4.4113	7.5099	2.0923	1.6091
#1	.00634	.22458	.01543	.01993	.00208
#2	.00579	.21099	.01716	.01935	.00213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**.50167**	**.00194**	**-.0768**	**.00396**
Stddev	.00003	.00236	.00007	.0036	.00005
%RSD	1.5967	.46969	3.3602	4.747	1.3180
#1	.00208	.50001	.00198	-.0742	.00400
#2	.00203	.50334	.00189	-.0793	.00393
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00367**	**.00987**	**.04950**	**.44323**	**.02881**
Stddev	.00028	.00035	.00004	.05302	.00082
%RSD	7.5816	3.5354	.08988	11.961	2.8522
#1	.00347	.00962	.04947	.48072	.02939
#2	.00387	.01012	.04954	.40574	.02823
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-7028546 Acquired: 6/14/2022 12:04:05 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19161**	**.00314**	**.00948**	**.96604**	**.00967**
Stddev	.00076	.00004	.00009	.00000	.00002
%RSD	.39467	1.1541	.99990	.00036	.17454
#1	.19107	.00316	.00941	.96604	.00965
#2	.19214	.00311	.00955	.96604	.00968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00953**	**.18373**	**.02381**	**.02525**
Stddev	.00	.00172	.00440	.00101	.00121
%RSD	.0027	18.026	2.3922	4.2274	4.8067
#1	25.00	.00832	.18684	.02452	.02611
#2	25.00	.01075	.18062	.02310	.02439
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45650**	**.00878**	**.00505**	F **1.003**	**.00438**
Stddev	.00553	.00020	.00007	.002	.00013
%RSD	1.2110	2.2284	1.3622	.2344	2.9424
#1	.45259	.00892	.00510	1.004	.00447
#2	.46041	.00865	.00500	1.001	.00429
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: ICVL-7028546 Acquired: 6/14/2022 12:04:05 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02015**	**.00469**	**.00864**	F **.9999**
Stddev	.00095	.00020	.00035	.0002
%RSD	4.7191	4.2345	4.0303	.0216
#1	.02083	.00455	.00839	.9997
#2	.01948	.00483	.00889	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3953.5**	**3582.7**	**74035.**	**5401.3**
Stddev	9.7	8.9	77.	9.7
%RSD	.24455	.24746	.10355	.18048
#1	3946.6	3576.4	73980.	5394.4
#2	3960.3	3588.9	74089.	5408.2

Sample Name: ICSA-7017591 Acquired: 6/14/2022 12:07:58 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**483.63**	**.00274**	**.00098**	**.00764**
Stddev	.00036	.17	.00097	.00020	.00001
%RSD	141.59	.03501	35.521	20.465	.15890
#1	-.00000	483.51	.00343	.00084	.00765
#2	.00050	483.75	.00205	.00113	.00763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**451.25**	**-.00022**	**.0433**	**-.00062**
Stddev	.00003	.99	.00012	.0932	.00002
%RSD	236.54	.22048	52.906	215.3	3.1921
#1	-.00001	450.55	-.00031	.1092	-.00063
#2	.00003	451.95	-.00014	-.0226	-.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**-.00634**	**182.25**	**.22500**	**.00565**
Stddev	.00059	.00128	.29	.03595	.00056
%RSD	95.878	20.181	.15930	15.977	9.8754
#1	.00103	-.00544	182.04	.25042	.00525
#2	.00020	-.00725	182.45	.19958	.00604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-7017591 Acquired: 6/14/2022 12:07:58 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**485.88**	**-.00088**	**-.00252**	**.08460**	**-.00013**
Stddev	3.38	.00007	.00053	.00242	.00015
%RSD	.69613	8.3003	20.899	2.8619	114.55
#1	488.27	-.00083	-.00290	.08631	-.00024
#2	483.49	-.00093	-.00215	.08289	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**-.00468**	W **.20727**	**.00685**	**-.00382**
Stddev	.00	.00081	.00527	.00577	.00081
%RSD	.0004	17.239	2.5449	84.214	21.108
#1	25.03	-.00411	.21100	.00277	-.00325
#2	25.03	-.00525	.20354	.01092	-.00439
Check ?	None	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit			.20000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03965**	**-.00289**	**.01273**	**1.072**	**.00190**
Stddev	.00366	.00008	.00001	.001	.00003
%RSD	9.2215	2.6544	.06347	.1065	1.3823
#1	-.03706	-.00283	.01273	1.073	.00189
#2	-.04223	-.00294	.01274	1.071	.00192
Check ?	None	Chk Pass	None	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-7017591 Acquired: 6/14/2022 12:07:58 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00144**	**.00045**	**-.00083**	**1.003**
Stddev	.00055	.00008	.00115	.001
%RSD	37.867	18.845	138.30	.0547
#1	.00105	.00051	-.00165	1.003
#2	.00183	.00039	-.00002	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2985.1**	**3126.4**	**63695.**	**5220.0**
Stddev	2.2	5.2	252.	14.9
%RSD	.07204	.16784	.39573	.28481
#1	2983.5	3122.7	63517.	5230.5
#2	2986.6	3130.2	63874.	5209.5

Sample Name: ICSAB-7019499 Acquired: 6/14/2022 12:11:56 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52834**	**500.23**	**.50742**	**4.7820**	**.52466**
Stddev	.00085	2.48	.00172	.0046	.00098
%RSD	.16172	.49560	.33895	.09516	.18654
#1	.52895	501.99	.50620	4.7788	.52535
#2	.52774	498.48	.50863	4.7852	.52397
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.25271**	**470.59**	**.51560**	**-.0682**	**.49892**
Stddev	.00149	1.21	.00060	.1269	.00021
%RSD	.58787	.25794	.11631	186.1	.04242
#1	.25376	471.45	.51517	.0215	.49877
#2	.25166	469.74	.51602	-.1579	.49907
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49987**	**.52968**	**188.95**	**5.3693**	**.00646**
Stddev	.00105	.00008	.49	.0418	.00051
%RSD	.20912	.01518	.26154	.77951	7.9422
#1	.49913	.52962	189.30	5.3989	.00610
#2	.50061	.52973	188.60	5.3397	.00683
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None
Value					
Range					

Sample Name: ICSAB-7019499 Acquired: 6/14/2022 12:11:56 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**499.29**	**.49726**	**.48939**	**5.3413**	**.48403**
Stddev	.22	.00045	.00049	.0418	.00044
%RSD	.04478	.09086	.10071	.78300	.09063
#1	499.45	.49694	.48974	5.3709	.48372
#2	499.13	.49758	.48904	5.3117	.48434
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.49**	**.48534**	**.20148**	**.49556**	**.49603**
Stddev	.00	.00271	.00487	.00349	.00591
%RSD	.0005	.55938	2.4161	.70477	1.1907
#1	27.49	.48726	.20492	.49309	.50021
#2	27.49	.48342	.19803	.49803	.49186
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8639**	**.48470**	**.50852**	**1.086**	**.50898**
Stddev	.0083	.00284	.00258	.002	.00171
%RSD	.17003	.58679	.50704	.2139	.33523
#1	4.8698	.48269	.51034	1.087	.51019
#2	4.8581	.48671	.50670	1.084	.50777
Check ?	None	None	None	None	None
Value					
Range					

Sample Name: ICSAB-7019499 Acquired: 6/14/2022 12:11:56 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.49166**	**.49723**	**.45601**	**1.004**
Stddev	.00179	.00141	.00499	.001
%RSD	.36454	.28324	1.0939	.0496
#1	.49039	.49823	.45248	1.004
#2	.49293	.49624	.45954	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2899.4**	**3059.5**	**62136.**	**5084.5**
Stddev	2.2	2.1	70.	15.3
%RSD	.07513	.06963	.11274	.30047
#1	2900.9	3061.0	62086.	5073.7
#2	2897.9	3058.0	62185.	5095.3

Sample Name: ICEX1 Acquired: 6/14/2022 12:15:50 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.01142**	**4.6378**	**.00814**	**.00002**
Stddev	.00014	.02789	.0016	.00087	.00001
%RSD	162.12	244.22	.03362	10.691	52.421
#1	-.00018	-.03114	4.6389	.00876	.00002
#2	.00001	.00830	4.6367	.00753	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	**.01035**	**.00001**	**-.1400**	**.00020**
Stddev	.00005	.00193	.00004	.0879	.00009
%RSD	7.7039	18.655	685.76	62.79	43.655
#1	.00065	.01171	-.00002	-.2021	.00014
#2	.00072	.00898	.00003	-.0778	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**25.488**	**.01262**	**-.07227**	**.00457**
Stddev	.00026	.010	.00038	.01996	.00022
%RSD	105.86	.03828	2.9774	27.623	4.7570
#1	.00006	25.495	.01288	-.08638	.00472
#2	.00044	25.481	.01235	-.05815	.00441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 6/14/2022 12:15:50 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00183**	**.00124**	**-.00120**	**.01731**	**.00007**
Stddev	.00086	.00000	.00006	.00416	.00003
%RSD	47.105	.25518	4.6282	24.054	46.061
#1	.00122	.00124	-.00124	.02025	.00009
#2	.00243	.00123	-.00116	.01436	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.10**	**.00594**	**.00232**	**.00197**	**.00104**
Stddev	.00	.00039	.00034	.00182	.00090
%RSD	.0056	6.4810	14.481	92.208	86.827
#1	25.10	.00567	.00255	.00326	.00168
#2	25.10	.00622	.00208	.00069	.00040
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02066**	**.00022**	**.00004**	**1.005**	F **.00793**
Stddev	.00040	.00041	.00002	.003	.00004
%RSD	1.9459	188.29	56.402	.2683	.54436
#1	.02037	-.00007	.00005	1.003	.00796
#2	.02094	.00051	.00002	1.007	.00790
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Fail
High Limit					.00500
Low Limit					-.00500

Sample Name: ICEX1 Acquired: 6/14/2022 12:15:50 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00407**	**5.0253**	**-.00078**	**.9995**
Stddev	.00080	.0014	.00015	.0002
%RSD	19.593	.02715	19.381	.0169
#1	.00351	5.0262	-.00067	.9994
#2	.00464	5.0243	-.00088	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3902.8**	**3552.2**	**72968.**	**5397.3**
Stddev	9.3	.5	21.	7.1
%RSD	.23703	.01387	.02865	.13191
#1	3896.2	3551.9	72982.	5392.2
#2	3909.3	3552.6	72953.	5402.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.75%	101.59%	100.76%	103.13%
Range				

Sample Name: ICEX2 Acquired: 6/14/2022 12:19:53 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00260**	**.00421**	**.00495**	**.00380**	**.00024**
Stddev	.00031	.01029	.00309	.00034	.00001
%RSD	12.063	244.41	62.519	9.0611	2.6239
#1	.00238	-.00307	.00276	.00355	.00025
#2	.00282	.01149	.00714	.00404	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.05071**	**.00027**	**-.0265**	**.00322**
Stddev	.00003	.00330	.00007	.0285	.00026
%RSD	17.730	6.4987	25.404	107.4	8.2278
#1	.00015	.04838	.00032	-.0064	.00303
#2	.00020	.05304	.00022	-.0467	.00341
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00141**	**-.00035**	**.00108**	**-.04219**	**9.3469**
Stddev	.00016	.00009	.00050	.00290	.0047
%RSD	11.435	26.649	46.462	6.8671	.05001
#1	.00153	-.00029	.00073	-.04423	9.3502
#2	.00130	-.00042	.00144	-.04014	9.3436
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 6/14/2022 12:19:53 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.04396**	**.00058**	**.00008**	**.01428**	**.00464**
Stddev	.00203	.00005	.00009	.01027	.00003
%RSD	4.6237	8.5345	112.76	71.940	.56202
#1	-.04252	.00062	.00015	.02155	.00462
#2	-.04540	.00055	.00002	.00702	.00466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00753**	**-.01540**	**.00167**	**-.00220**
Stddev	.00	.00096	.00050	.00118	.00433
%RSD	.0026	12.748	3.2399	70.677	197.15
#1	25.00	.00685	-.01505	.00250	-.00526
#2	25.00	.00821	-.01575	.00083	.00087
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.642**	**-.00080**	**.00019**	**1.003**	**19.400**
Stddev	.318	.00044	.00004	.009	.117
%RSD	.62827	55.403	22.711	.8645	.60175
#1	50.417	-.00112	.00016	1.009	19.482
#2	50.867	-.00049	.00022	.9971	19.317
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 6/14/2022 12:19:53 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**19.328**	**-.00143**	**.00631**	**1.002**
Stddev	.001	.00003	.00050	.000
%RSD	.00748	2.1467	7.8794	.0152
#1	19.327	-.00145	.00596	1.002
#2	19.329	-.00141	.00666	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3696.7**	**3506.4**	**71852.**	**5390.3**
Stddev	1.1	1.1	183.	29.0
%RSD	.02891	.03235	.25506	.53710
#1	3697.4	3505.6	71723.	5369.8
#2	3695.9	3507.2	71982.	5410.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.427%	100.28%	99.216%	102.99%
Range				

Sample Name: ICEX3 Acquired: 6/14/2022 12:23:49 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.02230**	**.00429**	**.00120**	**.00001**
Stddev	.00042	.03026	.00034	.00030	.00001
%RSD	11302.	135.70	7.9311	24.651	146.93
#1	-.00029	.00090	.00405	.00141	.00002
#2	.00030	.04370	.00453	.00099	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00548**	**.00035**	**-.4596**	**.00023**
Stddev	.00001	.00281	.00008	.0623	.00001
%RSD	21.681	51.213	22.690	13.55	5.7224
#1	.00006	.00747	.00040	-.5036	.00022
#2	.00004	.00350	.00029	-.4155	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.00470**	**-.01765**	**-.01949**	**.00339**
Stddev	.00030	.00015	.00273	.00325	.00035
%RSD	52.039	3.1896	15.459	16.675	10.426
#1	.00037	.00460	-.01958	-.01719	.00314
#2	.00080	.00481	-.01572	-.02179	.00364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 6/14/2022 12:23:49 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03627**	**50.221**	**-.00232**	**.01276**	**.00034**
Stddev	.00105	.107	.00017	.00250	.00009
%RSD	2.9001	.21313	7.5143	19.571	25.334
#1	-.03701	50.297	-.00244	.01100	.00040
#2	-.03552	50.145	-.00220	.01453	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00524**	F **89.891**	**-.00306**	**.00156**
Stddev	.00	.00080	.008	.00158	.00111
%RSD	.0004	15.201	.00876	51.767	71.114
#1	25.00	.00580	89.885	-.00194	.00078
#2	25.00	.00468	89.896	-.00418	.00234
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			110.00		
Low Limit			90.000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00276**	**-.00005**	**.00013**	**.9986**	**-.00160**
Stddev	.00976	.00082	.00002	.0039	.00061
%RSD	353.80	1508.9	17.034	.3908	38.250
#1	.00414	.00053	.00015	.9958	-.00203
#2	-.00966	-.00064	.00012	1.001	-.00117
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 6/14/2022 12:23:49 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00072**	**-.00041**	**.9959**
Stddev	.00106	.00013	.00083	.0003
%RSD	306.76	17.298	203.01	.0324
#1	.00109	.00081	-.00100	.9956
#2	-.00040	.00064	.00018	.9961
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3905.7**	**3568.6**	**73260.**	**5391.2**
Stddev	5.0	3.6	227.	20.7
%RSD	.12837	.10202	.30917	.38406
#1	3902.2	3566.1	73100.	5376.5
#2	3909.3	3571.2	73421.	5405.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.82%	102.06%	101.16%	103.01%
Range				

Sample Name: ICEX4 Acquired: 6/14/2022 12:27:52 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.00096**	**.00247**	**-.00047**	**.00009**
Stddev	.00031	.01380	.00000	.00016	.00000
%RSD	53.906	1431.7	.15939	33.684	2.6763
#1	.00079	-.00879	.00247	-.00059	.00009
#2	.00035	.01072	.00247	-.00036	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00813**	**.00005**	**-.0248**	**18.392**
Stddev	.00007	.00078	.00000	.0911	.006
%RSD	60.715	9.5960	2.2921	367.0	.03157
#1	-.00006	.00869	.00005	.0396	18.396
#2	-.00016	.00758	.00005	-.0893	18.388
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.077**	**.00652**	**.00190**	**-.05102**	**.00129**
Stddev	.000	.00015	.00191	.00227	.00130
%RSD	.00408	2.3149	100.39	4.4459	100.76
#1	10.077	.00663	.00325	-.04941	.00037
#2	10.077	.00641	.00055	-.05262	.00221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 6/14/2022 12:27:52 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00659**	F **.00940**	**-.00094**	**.00679**	**9.3642**
Stddev	.00061	.00001	.00007	.00192	.0005
%RSD	9.2444	.12973	7.8970	28.220	.00507
#1	-.00616	.00941	-.00099	.00815	9.3638
#2	-.00702	.00939	-.00089	.00544	9.3645
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.00300			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.99**	**-.00427**	**.01240**	**.00223**	**.00103**
Stddev	.00	.00009	.00070	.00110	.00309
%RSD	.0020	2.2235	5.6463	49.375	299.68
#1	24.99	-.00434	.01191	.00300	-.00115
#2	24.99	-.00421	.01290	.00145	.00321
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.13239**	**.00024**	**.00016**	**1.004**	**.00300**
Stddev	.00808	.00043	.00018	.001	.00007
%RSD	6.1054	181.76	112.48	.0861	2.4332
#1	-.13811	-.00007	.00028	1.004	.00295
#2	-.12668	.00054	.00003	1.003	.00305
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 6/14/2022 12:27:52 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00839**	**.00020**	**-.00124**	**.9977**
Stddev	.00109	.00019	.00007	.0001
%RSD	13.031	93.602	5.3086	.0111
#1	.00762	.00007	-.00120	.9976
#2	.00917	.00033	-.00129	.9978
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3908.8**	**3535.8**	**73611.**	**5426.4**
Stddev	2.8	2.2	18.	36.7
%RSD	.07240	.06177	.02385	.67570
#1	3906.8	3537.3	73599.	5400.5
#2	3910.8	3534.2	73624.	5452.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.90%	101.12%	101.65%	103.68%
Range				

Sample Name: ICEX5 Acquired: 6/14/2022 12:31:43 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.07218**	**.00301**	**-.01734**	**-.00006**
Stddev	.00040	.00052	.00005	.00001	.00001
%RSD	162.34	.71894	1.6753	.07858	17.530
#1	.00004	.07181	.00304	-.01735	-.00005
#2	-.00052	.07255	.00297	-.01733	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00371**	**.00022**	**-.0882**	**-.00018**
Stddev	.00002	.00195	.00003	.0399	.00002
%RSD	32.019	52.502	15.866	45.22	10.621
#1	-.00006	.00508	.00024	-.1164	-.00017
#2	-.00004	.00233	.00019	-.0600	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00251**	**-.00191**	**-.07662**	**.00216**
Stddev	.00021	.00019	.00032	.00713	.00063
%RSD	115.64	7.6591	16.979	9.3028	29.023
#1	-.00003	-.00237	-.00214	-.08166	.00172
#2	-.00033	-.00264	-.00168	-.07158	.00261
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 6/14/2022 12:31:43 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.06883**	**.00023**	**5.1770**	**.00445**	**.00040**
Stddev	.00060	.00002	.0043	.00565	.00003
%RSD	.87712	8.1413	.08233	126.97	6.6795
#1	-.06926	.00022	5.1800	.00844	.00042
#2	-.06840	.00024	5.1740	.00045	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00431**	**-.03408**	**.00417**	**-.00083**
Stddev	.00	.00051	.00444	.00057	.00100
%RSD	.0022	11.933	13.021	13.717	120.31
#1	25.00	.00395	-.03722	.00458	-.00154
#2	25.00	.00467	-.03094	.00377	-.00012
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14194**	**.00013**	**.00007**	**1.008**	**-.00211**
Stddev	.02865	.00007	.00007	.003	.00041
%RSD	20.187	55.474	107.86	.3070	19.484
#1	.12168	.00008	.00002	1.006	-.00240
#2	.16221	.00017	.00012	1.010	-.00182
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 6/14/2022 12:31:43 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00306**	**-.00496**	**.00068**	**.9999**
Stddev	.00154	.00027	.00002	.0002
%RSD	50.194	5.4776	3.4282	.0211
#1	.00198	-.00477	.00066	1.000
#2	.00415	-.00515	.00069	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3959.8**	**3584.3**	**74015.**	**5479.6**
Stddev	5.7	5.4	251.	5.3
%RSD	.14329	.14966	.33967	.09737
#1	3955.7	3580.5	73837.	5483.4
#2	3963.8	3588.1	74193.	5475.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.22%	102.51%	102.20%	104.70%
Range				

Sample Name: CCV-7032336 Acquired: 6/14/2022 12:35:35 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0069**	**49.257**	**1.0006**	**1.0256**	**.97770**
Stddev	.0003	.141	.0033	.0009	.00240
%RSD	.03065	.28710	.33229	.08922	.24587
#1	1.0066	49.357	.99823	1.0263	.97940
#2	1.0071	49.157	1.0029	1.0250	.97600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99867**	**49.462**	**1.0061**	**1.005**	**.99610**
Stddev	.00093	.106	.0000	.075	.00103
%RSD	.09303	.21496	.00295	7.446	.10371
#1	.99932	49.537	1.0061	.9524	.99537
#2	.99801	49.387	1.0062	1.058	.99683
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0284**	**1.0201**	**50.574**	**49.568**	**.96778**
Stddev	.0011	.0006	.116	.041	.00072
%RSD	.10663	.06374	.22883	.08282	.07424
#1	1.0276	1.0206	50.655	49.597	.96829
#2	1.0291	1.0196	50.492	49.539	.96727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 12:35:35 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.414**	**1.0265**	**1.0171**	**49.368**	**1.0083**
Stddev	.060	.0018	.0004	.085	.0004
%RSD	.11955	.17221	.03833	.17127	.03536
#1	50.457	1.0277	1.0174	49.428	1.0086
#2	50.372	1.0252	1.0169	49.309	1.0081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.56**	**1.0047**	**25.148**	**.99764**	**1.0092**
Stddev	.00	.0001	.010	.00189	.0012
%RSD	.0036	.00932	.03910	.18903	.11531
#1	37.56	1.0047	25.155	.99631	1.0101
#2	37.56	1.0046	25.141	.99898	1.0084
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7649**	**.99990**	**.99719**	**1.507**	**1.0171**
Stddev	.0263	.00191	.00206	.001	.0005
%RSD	.26964	.19059	.20689	.0941	.04651
#1	9.7463	.99855	.99864	1.506	1.0175
#2	9.7835	1.0012	.99573	1.508	1.0168
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 12:35:35 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0172**	**1.0206**	**1.0245**	**1.501**
Stddev	.0003	.0003	.0032	.001
%RSD	.03137	.02638	.31618	.0710
#1	1.0175	1.0208	1.0268	1.502
#2	1.0170	1.0204	1.0222	1.501
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3353.9**	**3342.4**	**67390.**	**5276.8**
Stddev	1.4	1.1	80.	21.7
%RSD	.04050	.03335	.11834	.41139
#1	3353.0	3341.6	67334.	5261.5
#2	3354.9	3343.2	67446.	5292.2

Sample Name: CCB-7026764 Acquired: 6/14/2022 12:39:15 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.00379**	**.00294**	**.00068**	**.00004**
Stddev	.00032	.01234	.00240	.00051	.00000
%RSD	194.45	325.87	81.617	75.129	8.9002
#1	.00039	.01252	.00124	.00105	.00004
#2	-.00006	-.00494	.00463	.00032	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00474**	**-.00006**	**.0190**	**.00016**
Stddev	.00003	.00040	.00001	.0407	.00001
%RSD	118.31	8.4230	21.460	214.6	6.0370
#1	.00000	-.00446	-.00005	.0478	.00017
#2	.00004	-.00503	-.00007	-.0098	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**-.00033**	**-.00052**	**-.00715**	**.00124**
Stddev	.00006	.00101	.00005	.02196	.00077
%RSD	21.118	308.99	9.9517	307.36	61.982
#1	-.00023	.00039	-.00056	.00839	.00179
#2	-.00030	-.00104	-.00048	-.02268	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 12:39:15 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00006**	**.00175**	**-.00178**	**.00006**
Stddev	.00347	.00002	.00042	.00834	.00006
%RSD	1010.1	31.262	24.149	468.68	88.815
#1	.00280	.00007	.00145	.00412	.00010
#2	-.00211	.00004	.00205	-.00768	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00048**	**-.00450**	**-.00271**	**.00144**
Stddev	.00	.00083	.00431	.00034	.00281
%RSD	.0007	173.09	95.724	12.410	195.60
#1	25.00	.00107	-.00145	-.00248	.00343
#2	25.00	-.00011	-.00755	-.00295	-.00055
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02594**	**-.00045**	**.00002**	**1.004**	**.00033**
Stddev	.00434	.00008	.00004	.004	.00002
%RSD	16.750	18.468	220.84	.4379	7.4713
#1	-.02286	-.00050	-.00001	1.001	.00031
#2	-.02901	-.00039	.00005	1.007	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 12:39:15 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00277**	**.00008**	**-.00142**	**1.000**
Stddev	.00085	.00021	.00026	.001
%RSD	30.822	262.93	18.087	.0858
#1	.00337	.00022	-.00124	1.001
#2	.00216	-.00007	-.00161	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3939.0**	**3549.1**	**72731.**	**5424.0**
Stddev	3.0	5.0	43.	46.4
%RSD	.07581	.14066	.05880	.85456
#1	3941.1	3552.7	72701.	5391.2
#2	3936.8	3545.6	72761.	5456.7

Sample Name: CCVL-7028546 Acquired: 6/14/2022 13:00:38 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00552**	**.21253**	**.01670**	**.01867**	**.00216**
Stddev	.00047	.01925	.00348	.00041	.00001
%RSD	8.4395	9.0590	20.839	2.2025	.32657
#1	.00519	.19891	.01916	.01838	.00216
#2	.00585	.22614	.01424	.01896	.00215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**.50765**	**.00195**	**.0011**	**.00383**
Stddev	.00002	.00315	.00014	.0213	.00011
%RSD	1.0485	.62104	7.2175	1859.	2.8702
#1	.00204	.50542	.00205	.0162	.00391
#2	.00207	.50988	.00185	-.0139	.00375
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00387**	**.01065**	**.05192**	**.42805**	**.02771**
Stddev	.00036	.00048	.00057	.03273	.00036
%RSD	9.3773	4.5300	1.1003	7.6468	1.3052
#1	.00361	.01100	.05151	.40491	.02797
#2	.00412	.01031	.05232	.45120	.02746
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/14/2022 13:00:38 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20028**	**.00338**	**.00897**	**.96398**	**.00946**
Stddev	.00178	.00005	.00046	.00348	.00005
%RSD	.88969	1.3748	5.0967	.36121	.54137
#1	.19902	.00335	.00865	.96645	.00950
#2	.20154	.00342	.00929	.96152	.00943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01069**	**.18675**	**.01862**	**.02172**
Stddev	.00	.00087	.00344	.00062	.00068
%RSD	.0010	8.1223	1.8422	3.3124	3.1287
#1	25.00	.01007	.18432	.01819	.02124
#2	25.00	.01130	.18918	.01906	.02220
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44985**	**.00956**	**.00501**	F **.9986**	**.00542**
Stddev	.00056	.00031	.00006	.0088	.00034
%RSD	.12541	3.2111	1.2675	.8797	6.3312
#1	.44945	.00978	.00505	.9924	.00566
#2	.45025	.00935	.00497	1.005	.00518
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/14/2022 13:00:38 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02153**	**.00476**	**.00950**	F **.9995**
Stddev	.00042	.00032	.00059	.0001
%RSD	1.9589	6.6248	6.1935	.0121
#1	.02123	.00453	.00992	.9994
#2	.02183	.00498	.00909	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3894.0**	**3533.5**	**72393.**	**5355.4**
Stddev	4.4	.6	27.	29.9
%RSD	.11254	.01645	.03742	.55780
#1	3890.9	3533.0	72374.	5376.5
#2	3897.1	3533.9	72412.	5334.2

Sample Name: 480-198641-b-1-a Acquired: 6/14/2022 13:04:31 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.01860**	**.00103**	**.00342**	**.00221**
Stddev	.00023	.01527	.00136	.00049	.00001
%RSD	115.97	82.088	132.12	14.326	.58502
#1	.00004	.02939	.00007	.00307	.00220
#2	.00036	.00780	.00200	.00376	.00222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**1.9444**	**-.00004**	**-.0278**	**.00017**
Stddev	.00007	.0086	.00002	.0480	.00004
%RSD	917.84	.44260	45.575	172.5	23.429
#1	-.00004	1.9383	-.00005	-.0618	.00020
#2	.00005	1.9505	-.00003	.0061	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00325**	**.06941**	**.04863**	**.00148**
Stddev	.00036	.00037	.00231	.00370	.00172
%RSD	366.51	11.486	3.3271	7.6058	116.33
#1	.00036	.00299	.06778	.05125	.00026
#2	-.00016	.00351	.07105	.04602	.00269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-b-1-a Acquired: 6/14/2022 13:04:31 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.68003**	**.00325**	**-.00157**	**.26838**	**.00038**
Stddev	.00183	.00001	.00019	.00523	.00027
%RSD	.26844	.31775	11.841	1.9479	69.831
#1	.67874	.00324	-.00171	.26468	.00057
#2	.68132	.00326	-.00144	.27208	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00085**	**.09224**	**.00036**	**-.00102**
Stddev	.00	.00070	.00243	.00052	.00049
%RSD	.0009	82.136	2.6389	144.60	47.831
#1	25.00	.00135	.09052	.00073	-.00137
#2	25.00	.00036	.09396	-.00001	-.00068
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09411**	**.00010**	**.00496**	**1.002**	**-.00042**
Stddev	.00625	.00067	.00012	.002	.00011
%RSD	6.6364	648.54	2.3585	.1763	26.501
#1	.09852	-.00037	.00487	1.001	-.00034
#2	.08969	.00057	.00504	1.004	-.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-b-1-a Acquired: 6/14/2022 13:04:31 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00000**	**.00209**	**.9999**
Stddev	.00017	.00008	.00045	.0007
%RSD	27.694	3170.6	21.343	.0707
#1	.00072	-.00005	.00241	1.000
#2	.00048	.00006	.00177	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3866.8**	**3502.0**	**71739.**	**5408.6**
Stddev	.1	4.7	206.	25.3
%RSD	.00338	.13446	.28746	.46786
#1	3866.7	3498.7	71885.	5426.5
#2	3866.9	3505.4	71594.	5390.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.819%	100.15%	99.060%	103.34%
Range				

Sample Name: 480-198641-b-1-asd@5 Acquired: 6/14/2022 13:08:23 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.01460**	**.00110**	**.00108**	**.00110**
Stddev	.00023	.00555	.00049	.00061	.00002
%RSD	61.207	38.005	44.675	56.487	1.8979
#1	.00054	.01068	.00145	.00065	.00111
#2	.00021	.01853	.00075	.00152	.00108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.40492**	**.00005**	**-.0251**	**.00012**
Stddev	.00004	.00271	.00004	.0226	.00004
%RSD	71.366	.66890	89.042	90.14	32.780
#1	.00009	.40301	.00002	-.0091	.00009
#2	.00003	.40684	.00008	-.0411	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00116**	**.01426**	**-.03591**	**.00099**
Stddev	.00031	.00076	.00146	.01072	.00014
%RSD	147.44	65.938	10.262	29.858	14.210
#1	-.00043	.00170	.01529	-.04349	.00109
#2	.00001	.00062	.01322	-.02833	.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-b-1-asd@5 Acquired: 6/14/2022 13:08:23 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.13664**	**.00055**	**-.00133**	**.04976**	**.00018**
Stddev	.00409	.00003	.00008	.00383	.00015
%RSD	2.9914	4.9855	6.1511	7.7038	83.223
#1	.13375	.00057	-.00127	.04705	.00028
#2	.13953	.00053	-.00139	.05247	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00051**	**.01031**	**.00018**	**.00015**
Stddev	.00	.00096	.00300	.00073	.00736
%RSD	.0018	188.02	29.070	392.74	4795.1
#1	25.00	-.00017	.01243	-.00033	.00536
#2	25.00	.00119	.00819	.00070	-.00505
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01733**	**.00012**	**.00109**	**1.004**	**-.00060**
Stddev	.01182	.00065	.00010	.004	.00020
%RSD	68.226	539.30	9.3571	.3706	34.208
#1	.00897	.00058	.00116	1.001	-.00045
#2	.02569	-.00034	.00102	1.006	-.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-b-1-asd@5 Acquired: 6/14/2022 13:08:23 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00062**	**-.00007**	**-.00055**	**1.000**
Stddev	.00126	.00019	.00026	.001
%RSD	203.17	258.47	47.774	.0600
#1	.00152	.00006	-.00073	.9998
#2	-.00027	-.00021	-.00036	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3897.6**	**3525.9**	**72211.**	**5322.4**
Stddev	1.8	1.7	19.	23.2
%RSD	.04652	.04875	.02691	.43558
#1	3896.3	3527.1	72197.	5338.8
#2	3898.9	3524.7	72225.	5306.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.61%	100.84%	99.711%	101.70%
Range				

Sample Name: 480-198641-b-1-aPDS Acquired: 6/14/2022 13:12:16 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05063**	**10.186**	**.20554**	**.20573**	**.21414**
Stddev	.00086	.008	.00005	.00032	.00028
%RSD	1.7002	.07696	.02243	.15698	.13143
#1	.05002	10.181	.20557	.20550	.21395
#2	.05124	10.192	.20551	.20596	.21434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21037**	**12.060**	**.20223**	**-.0661**	**.20023**
Stddev	.00019	.016	.00025	.1512	.00016
%RSD	.09251	.12990	.12463	228.6	.07985
#1	.21051	12.071	.20205	-.1730	.20012
#2	.21024	12.049	.20241	.0408	.20035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21044**	**.21401**	**10.405**	**10.073**	**.19583**
Stddev	.00026	.00019	.011	.044	.00272
%RSD	.12373	.08801	.10189	.43475	1.3905
#1	.21062	.21414	10.413	10.104	.19390
#2	.21025	.21388	10.398	10.042	.19775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-b-1-aPDS Acquired: 6/14/2022 13:12:16 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.257**	**.21844**	**.20644**	**10.197**	**.19768**
Stddev	.023	.00050	.00053	.011	.00013
%RSD	.20796	.22715	.25846	.10568	.06779
#1	11.241	.21809	.20682	10.204	.19759
#2	11.274	.21879	.20607	10.189	.19778
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.20183**	**9.9918**	**.19939**	**.19605**
Stddev	.00	.00067	.0135	.00231	.00156
%RSD	.0015	.33280	.13507	1.1583	.79708
#1	25.00	.20230	10.001	.20102	.19494
#2	25.00	.20135	9.9823	.19775	.19715
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.009**	**.19650**	**.21106**	**1.007**	**.20595**
Stddev	.007	.00050	.00035	.000	.00121
%RSD	.07164	.25692	.16377	.0051	.58653
#1	10.004	.19686	.21130	1.007	.20510
#2	10.014	.19614	.21081	1.007	.20680
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-b-1-aPDS Acquired: 6/14/2022 13:12:16 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21141**	**.20406**	**.20767**	**1.000**
Stddev	.00121	.00007	.00008	.000
%RSD	.57074	.03267	.03999	.0225
#1	.21056	.20411	.20761	1.000
#2	.21226	.20402	.20772	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3696.9**	**3476.4**	**70939.**	**5408.1**
Stddev	.9	5.2	251.	21.6
%RSD	.02554	.15035	.35391	.40027
#1	3697.6	3472.7	71116.	5423.4
#2	3696.2	3480.0	70761.	5392.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.433%	99.420%	97.955%	103.33%
Range				

Sample Name: 480-198641-b-1-b ms Acquired: 6/14/2022 13:15:57 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04810**	**9.9319**	**.18899**	**.19881**	**.21065**
Stddev	.00001	.0456	.00325	.00047	.00027
%RSD	.02598	.45945	1.7178	.23713	.12938
#1	.04811	9.9641	.19128	.19848	.21046
#2	.04809	9.8996	.18669	.19914	.21085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19397**	**11.169**	**.18543**	**-.0999**	**.18454**
Stddev	.00077	.033	.00017	.0005	.00005
%RSD	.39668	.29464	.09304	.4732	.02888
#1	.19451	11.192	.18555	-.0996	.18458
#2	.19343	11.146	.18531	-.1002	.18451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19175**	**.19715**	**9.6113**	**9.8080**	**.19064**
Stddev	.00026	.00118	.0147	.0213	.00162
%RSD	.13758	.59617	.15309	.21741	.84928
#1	.19156	.19632	9.6217	9.7929	.19178
#2	.19193	.19798	9.6009	9.8231	.18949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-b-1-b ms Acquired: 6/14/2022 13:15:57 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.333**	**.19618**	**.19138**	**9.8543**	**.18168**
Stddev	.039	.00051	.00002	.0210	.00017
%RSD	.37494	.26203	.01005	.21292	.09350
#1	10.306	.19582	.19136	9.8691	.18180
#2	10.360	.19654	.19139	9.8394	.18156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.18535**	**9.5554**	**.19452**	**.18347**
Stddev	.00	.00198	.0085	.00146	.00076
%RSD	.0006	1.0658	.08895	.75037	.41290
#1	25.00	.18396	9.5494	.19556	.18400
#2	25.00	.18675	9.5614	.19349	.18293
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2562**	**.23693**	**.20483**	**1.005**	**.19089**
Stddev	.0388	.00052	.00020	.002	.00033
%RSD	.41951	.21975	.09640	.1467	.17415
#1	9.2837	.23730	.20497	1.006	.19066
#2	9.2288	.23656	.20469	1.004	.19113
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-b-1-b ms Acquired: 6/14/2022 13:15:57 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19092**	**.18754**	**.18939**	**.9999**
Stddev	.00027	.00080	.00029	.0003
%RSD	.14046	.42889	.15199	.0288
#1	.19111	.18697	.18919	1.000
#2	.19073	.18811	.18960	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3755.7**	**3528.0**	**71969.**	**5501.7**
Stddev	3.6	2.4	244.	29.8
%RSD	.09482	.06787	.33881	.54242
#1	3753.2	3526.3	72142.	5480.6
#2	3758.2	3529.7	71797.	5522.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.950%	100.90%	99.378%	105.12%
Range				

Sample Name: 480-198641-b-1-c msd Acquired: 6/14/2022 13:19:38 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04790**	**9.8830**	**.19382**	**.20049**	**.21081**
Stddev	.00008	.0064	.00043	.00025	.00016
%RSD	.16933	.06506	.22141	.12402	.07717
#1	.04796	9.8876	.19352	.20032	.21093
#2	.04785	9.8785	.19413	.20067	.21070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19970**	**11.452**	**.19088**	**-.0744**	**.19095**
Stddev	.00040	.025	.00000	.0598	.00016
%RSD	.20166	.21943	.00171	80.41	.08615
#1	.19998	11.470	.19088	-.1166	.19106
#2	.19941	11.435	.19088	-.0321	.19083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19732**	**.20279**	**9.8885**	**9.8513**	**.18987**
Stddev	.00043	.00049	.0084	.0250	.00068
%RSD	.21717	.23988	.08468	.25378	.35609
#1	.19762	.20314	9.8944	9.8690	.19035
#2	.19701	.20245	9.8826	9.8336	.18939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-b-1-c msd Acquired: 6/14/2022 13:19:38 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.668**	**.20290**	**.19699**	**9.8687**	**.18873**
Stddev	.018	.00038	.00082	.0381	.00007
%RSD	.16828	.18520	.41452	.38563	.03603
#1	10.680	.20317	.19757	9.8956	.18878
#2	10.655	.20263	.19641	9.8418	.18868
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.19367**	**9.6201**	**.20071**	**.19248**
Stddev	.00	.00055	.0167	.00072	.00185
%RSD	.0031	.28231	.17374	.35976	.96226
#1	25.00	.19328	9.6319	.20122	.19117
#2	25.00	.19405	9.6083	.20020	.19379
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3108**	**.23766**	**.20557**	**1.009**	**.19742**
Stddev	.0215	.00180	.00033	.001	.00030
%RSD	.23053	.75908	.15971	.0882	.15087
#1	9.2957	.23639	.20580	1.008	.19763
#2	9.3260	.23894	.20533	1.009	.19721
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-b-1-c msd Acquired: 6/14/2022 13:19:38 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19829**	**.19379**	**.19783**	**1.001**
Stddev	.00026	.00009	.00044	.000
%RSD	.13346	.04855	.22363	.0250
#1	.19847	.19373	.19751	1.001
#2	.19810	.19386	.19814	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3723.3**	**3510.2**	**71660.**	**5520.7**
Stddev	6.2	3.6	36.	10.5
%RSD	.16694	.10327	.05060	.19077
#1	3727.7	3512.7	71635.	5513.3
#2	3718.9	3507.6	71686.	5528.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.115%	100.39%	98.951%	105.49%
Range				

Sample Name: 480-198641-B-2-A Acquired: 6/14/2022 13:23:19 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.02715**	**.00401**	**.13420**	**.09093**
Stddev	.00051	.02471	.00120	.00012	.00007
%RSD	496.69	91.035	30.007	.08583	.08049
#1	.00046	.04462	.00487	.13412	.09088
#2	-.00026	.00967	.00316	.13428	.09098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**125.36**	**.00021**	**-.0149**	**-.00000**
Stddev	.00005	.00	.00018	.0323	.00025
%RSD	57.923	.00112	86.138	217.1	8129.6
#1	-.00005	125.36	.00008	.0080	.00017
#2	-.00012	125.36	.00034	-.0377	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00009**	**1.0921**	**4.4051**	**.00339**
Stddev	.00006	.00037	.0035	.0162	.00003
%RSD	17.090	403.23	.32161	.36778	.92364
#1	.00039	.00035	1.0896	4.3937	.00341
#2	.00030	-.00017	1.0946	4.4166	.00337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-B-2-A Acquired: 6/14/2022 13:23:19 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**44.326**	**.16312**	**.00105**	**17.859**	**.00071**
Stddev	.050	.00031	.00024	.034	.00005
%RSD	.11287	.18793	22.485	.19199	6.3926
#1	44.291	.16291	.00089	17.883	.00075
#2	44.361	.16334	.00122	17.835	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00261**	**5.7469**	**-.00099**	**-.00129**
Stddev	.00	.00007	.0098	.00020	.00075
%RSD	.0020	2.5605	.17139	20.536	58.667
#1	25.00	.00266	5.7538	-.00113	-.00182
#2	25.00	.00256	5.7399	-.00085	-.00075
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.0442**	**.00048**	**.20137**	**1.0000**	**.00038**
Stddev	.0132	.00017	.00010	.0021	.00006
%RSD	.16442	35.141	.04766	.2132	16.720
#1	8.0536	.00060	.20130	1.001	.00042
#2	8.0349	.00036	.20143	.9985	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-B-2-A Acquired: 6/14/2022 13:23:19 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00169**	**-.00032**	**.00283**	**.9996**
Stddev	.00200	.00001	.00047	.0001
%RSD	118.31	3.2288	16.522	.0094
#1	.00311	-.00033	.00250	.9996
#2	.00028	-.00032	.00316	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3454.5**	**3332.6**	**68445.**	**5331.0**
Stddev	1.6	.0	102.	33.8
%RSD	.04672	.00116	.14865	.63472
#1	3455.7	3332.6	68517.	5355.0
#2	3453.4	3332.7	68373.	5307.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.176%	95.310%	94.511%	101.86%
Range				

Sample Name: 480-198641-B-3-A Acquired: 6/14/2022 13:27:09 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.00858**	**.00521**	**.02296**	**.06536**
Stddev	.00021	.00680	.00090	.00043	.00002
%RSD	51.016	79.181	17.262	1.8541	.03069
#1	.00056	.00378	.00457	.02266	.06537
#2	.00026	.01339	.00585	.02326	.06535
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**48.228**	**.00002**	**-.0009**	**.00005**
Stddev	.00007	.101	.00006	.0636	.00004
%RSD	82.708	.20959	363.46	7298.	88.996
#1	.00013	48.300	-.00003	.0441	.00002
#2	.00003	48.157	.00006	-.0458	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00056**	**.02105**	**5.6616**	**.00038**
Stddev	.00021	.00051	.00102	.0136	.00004
%RSD	146.99	90.439	4.8439	.24047	11.695
#1	-.00029	-.00020	.02033	5.6519	.00041
#2	.00001	-.00092	.02177	5.6712	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-B-3-A Acquired: 6/14/2022 13:27:09 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.300**	**.10114**	**-.00078**	**238.56**	**.00150**
Stddev	.013	.00015	.00004	.99	.00014
%RSD	.05274	.15297	4.6738	.41495	9.0321
#1	25.310	.10125	-.00080	239.26	.00160
#2	25.291	.10103	-.00075	237.86	.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00134**	**1.2503**	**.00186**	**-.00610**
Stddev	.00	.00066	.0062	.00105	.00180
%RSD	.0002	49.467	.49914	56.438	29.519
#1	25.00	.00181	1.2459	.00112	-.00482
#2	25.00	.00087	1.2548	.00260	-.00737
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.8112**	**.00018**	**.12451**	**1.003**	**-.00004**
Stddev	.0359	.00108	.00034	.002	.00017
%RSD	1.2774	598.14	.27685	.2119	378.93
#1	2.8366	-.00058	.12476	1.004	-.00016
#2	2.7858	.00095	.12427	1.001	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-B-3-A Acquired: 6/14/2022 13:27:09 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00246**	**-.00033**	**.00046**	**.9998**
Stddev	.00014	.00011	.00054	.0001
%RSD	5.5731	32.026	118.86	.0059
#1	.00256	-.00025	.00084	.9998
#2	.00236	-.00040	.00007	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3281.1**	**3268.2**	**66360.**	**5233.1**
Stddev	4.6	4.7	62.	14.2
%RSD	.14162	.14458	.09342	.27164
#1	3284.4	3271.5	66316.	5223.1
#2	3277.9	3264.8	66404.	5243.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.700%	93.466%	91.632%	99.991%
Range				

Sample Name: 480-198641-B-4-A Acquired: 6/14/2022 13:31:06 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**.00451**	**.00458**	**.08317**	**.07411**
Stddev	.00021	.00590	.00002	.00073	.00009
%RSD	40.206	130.89	.51608	.87339	.11678
#1	-.00037	.00034	.00456	.08369	.07417
#2	-.00067	.00869	.00460	.08266	.07405
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**27.291**	**.00015**	**-.0708**	**.00009**
Stddev	.00002	.116	.00000	.0268	.00004
%RSD	70.659	.42447	3.1801	37.85	47.675
#1	.00001	27.373	.00016	-.0897	.00006
#2	.00003	27.209	.00015	-.0518	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00203**	**.02404**	**2.7750**	**.00719**
Stddev	.00020	.00070	.00179	.0107	.00074
%RSD	79.146	34.520	7.4359	.38423	10.236
#1	.00039	.00154	.02530	2.7675	.00667
#2	.00011	.00253	.02277	2.7826	.00772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-B-4-A Acquired: 6/14/2022 13:31:06 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**43.443**	**.00949**	**.00374**	**25.313**	**.00119**
Stddev	.057	.00003	.00031	.082	.00009
%RSD	.13156	.28553	8.1683	.32572	7.9708
#1	43.484	.00947	.00352	25.372	.00112
#2	43.403	.00951	.00395	25.255	.00125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00238**	**12.431**	**.00048**	**-.00214**
Stddev	.00	.00072	.016	.00075	.00194
%RSD	.0010	30.247	.13250	157.11	90.802
#1	25.03	.00288	12.442	-.00005	-.00352
#2	25.03	.00187	12.419	.00101	-.00077
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.4206**	**.00071**	**1.4811**	**.9973**	**-.00040**
Stddev	.0269	.00003	.0066	.0009	.00028
%RSD	.31951	3.7983	.44796	.0852	71.158
#1	8.4397	.00069	1.4858	.9979	-.00020
#2	8.4016	.00073	1.4764	.9967	-.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-B-4-A Acquired: 6/14/2022 13:31:06 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00143**	**.00042**	**.00092**	**.9999**
Stddev	.00115	.00000	.00087	.0002
%RSD	80.628	.76610	94.528	.0175
#1	.00224	.00043	.00153	1.0000
#2	.00061	.00042	.00031	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3561.9**	**3395.6**	**69535.**	**5333.5**
Stddev	5.0	2.2	169.	34.6
%RSD	.14109	.06537	.24280	.64782
#1	3558.3	3394.1	69416.	5309.0
#2	3565.5	3397.2	69654.	5357.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.948%	97.112%	96.016%	101.91%
Range				

Sample Name: 480-198641-B-5-A Acquired: 6/14/2022 13:34:56 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.00919**	**.00505**	**.23717**	**.05749**
Stddev	.00079	.01790	.00154	.00118	.00003
%RSD	124.61	194.74	30.402	.49706	.05035
#1	-.00008	-.00347	.00614	.23634	.05751
#2	-.00119	.02185	.00396	.23801	.05747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**86.914**	**.00041**	**-.1030**	**.00029**
Stddev	.00002	.071	.00018	.1145	.00012
%RSD	25.046	.08194	45.295	111.1	40.482
#1	.00008	86.863	.00054	-.0221	.00037
#2	.00011	86.964	.00028	-.1840	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**-.00130**	**.00483**	**3.7666**	**.01020**
Stddev	.00071	.00006	.00068	.0008	.00001
%RSD	277.89	4.8874	14.068	.02208	.10775
#1	.00025	-.00134	.00531	3.7672	.01019
#2	-.00076	-.00125	.00435	3.7661	.01021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-B-5-A Acquired: 6/14/2022 13:34:56 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.920**	**.00806**	**.00001**	**12.537**	**.00375**
Stddev	.126	.00014	.00004	.001	.00021
%RSD	.32454	1.7000	351.73	.00434	5.4892
#1	39.009	.00816	-.00002	12.536	.00390
#2	38.831	.00797	.00004	12.537	.00361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00216**	**43.671**	**-.00096**	**-.00317**
Stddev	.00	.00044	.030	.00183	.00034
%RSD	.0105	20.550	.06773	191.11	10.832
#1	25.00	.00184	43.650	.00034	-.00292
#2	25.01	.00247	43.692	-.00225	-.00341
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.4488**	**-.00039**	F **32.082**	**1.003**	**.00003**
Stddev	.0125	.00128	.135	.002	.00047
%RSD	.28127	329.36	.42050	.1455	1417.1
#1	4.4576	-.00129	32.178	1.004	-.00030
#2	4.4399	.00052	31.987	1.002	.00037
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-198641-B-5-A Acquired: 6/14/2022 13:34:56 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00153**	**-.00030**	**-.00056**	**1.000**
Stddev	.00082	.00005	.00031	.001
%RSD	53.473	16.808	54.687	.0461
#1	.00095	-.00026	-.00035	1.000
#2	.00210	-.00033	-.00078	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3508.3**	**3342.5**	**69099.**	**5287.3**
Stddev	4.4	4.2	249.	1.1
%RSD	.12498	.12515	.36107	.02001
#1	3511.4	3345.5	68923.	5288.0
#2	3505.2	3339.6	69276.	5286.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.563%	95.593%	95.415%	101.03%
Range				

Sample Name: CCV-7032336 Acquired: 6/14/2022 13:38:53 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99334**	**49.183**	**.97900**	**1.0095**	**.97634**
Stddev	.00181	.055	.00163	.0005	.00401
%RSD	.18253	.11217	.16677	.04509	.41085
#1	.99462	49.222	.97784	1.0099	.97918
#2	.99206	49.144	.98015	1.0092	.97351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99315**	**49.339**	**.98926**	**1.073**	**.97722**
Stddev	.00190	.133	.00162	.043	.00113
%RSD	.19181	.26883	.16349	4.054	.11522
#1	.99450	49.433	.99040	1.042	.97802
#2	.99180	49.245	.98811	1.103	.97643
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0033**	**.99335**	**50.109**	**49.165**	**.97411**
Stddev	.0030	.00159	.059	.110	.00022
%RSD	.30224	.15962	.11706	.22396	.02235
#1	1.0055	.99447	50.150	49.243	.97396
#2	1.0012	.99223	50.068	49.087	.97426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 13:38:53 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.444**	**.99840**	**.98891**	**49.006**	**.98185**
Stddev	.068	.00152	.00275	.177	.00142
%RSD	.13839	.15273	.27800	.36215	.14439
#1	49.492	.99947	.99086	49.131	.98285
#2	49.396	.99732	.98697	48.880	.98085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.30**	**.98455**	**24.536**	**.98164**	**.98386**
Stddev	.03	.00299	.004	.00052	.00201
%RSD	.0691	.30361	.01552	.05311	.20402
#1	37.32	.98666	24.533	.98201	.98528
#2	37.28	.98243	24.538	.98128	.98244
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7579**	**.97808**	**.98190**	**1.499**	**.99168**
Stddev	.0083	.00023	.00212	.001	.00270
%RSD	.08511	.02401	.21629	.0529	.27186
#1	9.7520	.97825	.98340	1.500	.99358
#2	9.7637	.97792	.98039	1.499	.98977
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 13:38:53 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99698**	**.99389**	**1.0049**	**1.494**
Stddev	.00356	.00076	.0020	.001
%RSD	.35741	.07679	.20307	.0434
#1	.99950	.99443	1.0064	1.494
#2	.99446	.99335	1.0035	1.493
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3398.6**	**3388.3**	**68297.**	**5248.8**
Stddev	5.1	5.3	197.	22.0
%RSD	.14962	.15512	.28886	.41901
#1	3395.0	3384.6	68157.	5233.3
#2	3402.2	3392.0	68436.	5264.4

Sample Name: CCB-7026764 Acquired: 6/14/2022 13:42:33 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00023**	**.00109**	**.00061**	**.00004**
Stddev	.00089	.00070	.00048	.00023	.00000
%RSD	1954.5	303.78	43.664	36.917	5.1901
#1	.00067	.00073	.00075	.00077	.00004
#2	-.00058	-.00026	.00143	.00045	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00236**	**-.00007**	**-.0678**	**.00024**
Stddev	.00003	.00465	.00000	.0059	.00001
%RSD	121.48	197.45	4.9793	8.742	2.2019
#1	.00000	.00093	-.00007	-.0636	.00024
#2	.00005	-.00564	-.00007	-.0720	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.00006**	**.00112**	**-.01887**	**.00049**
Stddev	.00014	.00044	.00069	.01444	.00025
%RSD	27.665	796.59	61.633	76.531	51.746
#1	-.00040	.00037	.00063	-.02908	.00067
#2	-.00060	-.00026	.00161	-.00866	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 13:42:33 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00131**	**.00005**	**.00107**	**.00778**	**.00032**
Stddev	.00177	.00001	.00061	.00218	.00003
%RSD	134.87	18.437	56.862	27.993	8.9740
#1	-.00256	.00005	.00064	.00932	.00034
#2	-.00006	.00006	.00150	.00624	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00031**	**-.00057**	**-.00003**	**.00409**
Stddev	.00	.00038	.00275	.00004	.00162
%RSD	.0038	124.06	480.62	175.69	39.507
#1	25.00	.00057	-.00251	-.00006	.00523
#2	25.00	.00004	.00137	.00001	.00295
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02134**	**-.00011**	**.00023**	**.9972**	**-.00009**
Stddev	.00946	.00004	.00003	.0064	.00037
%RSD	44.335	40.248	14.078	.6372	417.14
#1	-.01465	-.00008	.00026	.9927	-.00035
#2	-.02803	-.00014	.00021	1.002	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 13:42:33 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00139**	**-.00001**	**-.00163**	**.9995**
Stddev	.00037	.00024	.00059	.0000
%RSD	26.591	1911.1	35.920	.0039
#1	.00113	-.00018	-.00122	.9996
#2	.00165	.00016	-.00204	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3934.9**	**3549.0**	**72665.**	**5397.9**
Stddev	2.2	2.8	138.	22.7
%RSD	.05665	.07924	.18926	.41996
#1	3933.3	3547.0	72568.	5381.9
#2	3936.5	3551.0	72762.	5413.9

Sample Name: CCVL-7028546 Acquired: 6/14/2022 13:46:27 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00564**	**.22869**	**.01525**	**.01957**	**.00214**
Stddev	.00098	.01160	.00027	.00046	.00002
%RSD	17.319	5.0736	1.7719	2.3653	.98628
#1	.00495	.23690	.01506	.01990	.00216
#2	.00633	.22049	.01544	.01924	.00213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**.50406**	**.00189**	**-.0515**	**.00396**
Stddev	.00002	.00343	.00000	.0965	.00015
%RSD	.81470	.67977	.22461	187.4	3.8000
#1	.00211	.50164	.00189	-.1197	.00386
#2	.00209	.50648	.00189	.0167	.00407
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00353**	**.01111**	**.05279**	**.46371**	**.02764**
Stddev	.00006	.00031	.00193	.01773	.00000
%RSD	1.7051	2.8159	3.6627	3.8233	.00494
#1	.00357	.01134	.05142	.47624	.02764
#2	.00349	.01089	.05416	.45117	.02763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/14/2022 13:46:27 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19991**	**.00348**	**.00941**	**.96242**	**.00977**
Stddev	.00014	.00002	.00015	.00806	.00005
%RSD	.07171	.50033	1.5595	.83798	.54794
#1	.19980	.00346	.00931	.96812	.00974
#2	.20001	.00349	.00952	.95672	.00981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01053**	**.19315**	**.01891**	**.02011**
Stddev	.00	.00065	.00087	.00031	.00154
%RSD	.0037	6.1421	.45078	1.6472	7.6608
#1	25.00	.01099	.19376	.01913	.01902
#2	25.00	.01007	.19253	.01869	.02120
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45584**	**.00957**	**.00528**	F **1.006**	**.00432**
Stddev	.00339	.00128	.00006	.004	.00013
%RSD	.74382	13.415	1.1838	.4021	3.0581
#1	.45344	.01048	.00523	1.009	.00441
#2	.45824	.00867	.00532	1.003	.00422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/14/2022 13:46:27 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02046**	**.00492**	**.00882**	F **.9993**
Stddev	.00099	.00009	.00029	.0005
%RSD	4.8205	1.8797	3.2461	.0542
#1	.01977	.00498	.00902	.9989
#2	.02116	.00485	.00861	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3874.3**	**3515.4**	**71775.**	**5342.7**
Stddev	.8	2.7	113.	14.8
%RSD	.02059	.07629	.15732	.27733
#1	3873.7	3513.5	71696.	5332.2
#2	3874.8	3517.3	71855.	5353.2

Sample Name: 480-198641-B-6-A Acquired: 6/14/2022 13:50:19 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**.00979**	**.00392**	**.01767**	**.12559**
Stddev	.00029	.00152	.00062	.00093	.00023
%RSD	54.647	15.518	15.793	5.2405	.18453
#1	-.00073	.01087	.00436	.01832	.12575
#2	-.00032	.00872	.00348	.01701	.12543
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**134.38**	**-.00004**	**-.0186**	**.00004**
Stddev	.00002	.51	.00004	.0682	.00012
%RSD	55.221	.38217	98.977	367.5	276.58
#1	-.00002	134.75	-.00008	-.0668	-.00004
#2	-.00004	134.02	-.00001	.0297	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00008**	**.00300**	**1.1177**	**.00394**
Stddev	.00017	.00002	.00051	.0233	.00088
%RSD	261.00	21.972	17.036	2.0838	22.418
#1	.00018	.00009	.00264	1.1012	.00332
#2	-.00005	.00007	.00336	1.1342	.00456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-B-6-A Acquired: 6/14/2022 13:50:19 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**59.217**	**.02201**	**-.00139**	**73.498**	**.00084**
Stddev	.002	.00002	.00040	.066	.00012
%RSD	.00376	.08005	28.674	.09029	13.895
#1	59.216	.02202	-.00168	73.451	.00076
#2	59.219	.02200	-.00111	73.545	.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00264**	**7.3218**	**.00090**	**-.00445**
Stddev	.00	.00146	.0323	.00279	.00352
%RSD	.0037	55.258	.44056	310.15	79.100
#1	25.00	.00367	7.2990	.00287	-.00693
#2	25.01	.00161	7.3446	-.00107	-.00196
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.3337**	**.00026**	**.15495**	**1.001**	**.00023**
Stddev	.0059	.00034	.00066	.004	.00028
%RSD	.11104	130.19	.42462	.3824	119.80
#1	5.3295	.00002	.15542	1.004	.00004
#2	5.3379	.00050	.15449	.9987	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-B-6-A Acquired: 6/14/2022 13:50:19 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00305**	**.00023**	**.00113**	**.9993**
Stddev	.00114	.00038	.00031	.0006
%RSD	37.373	164.66	27.173	.0557
#1	.00225	-.00004	.00135	.9997
#2	.00386	.00050	.00091	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3320.0**	**3249.8**	**66785.**	**5209.5**
Stddev	1.7	4.9	37.	14.9
%RSD	.05168	.15120	.05490	.28509
#1	3318.8	3253.3	66760.	5199.0
#2	3321.2	3246.4	66811.	5220.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.704%	92.942%	92.220%	99.540%
Range				

Sample Name: 480-198641-B-7-A Acquired: 6/14/2022 13:54:09 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.02195**	**.00190**	**.03373**	**.05262**
Stddev	.00042	.02355	.00158	.00007	.00008
%RSD	4413.7	107.27	83.154	.21654	.14739
#1	.00029	.03861	.00078	.03368	.05256
#2	-.00031	.00530	.00301	.03378	.05267
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**79.725**	**.00016**	**-.0561**	**.00001**
Stddev	.00008	.153	.00014	.0796	.00012
%RSD	155.91	.19204	88.918	141.9	834.90
#1	-.00001	79.834	.00006	-.1124	.00010
#2	.00011	79.617	.00026	.0002	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00032**	**.01103**	**1.3236**	**.00836**
Stddev	.00035	.00065	.00105	.0041	.00175
%RSD	1151.0	205.44	9.5313	.31177	20.882
#1	.00022	-.00014	.01028	1.3266	.00713
#2	-.00028	.00078	.01177	1.3207	.00959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-B-7-A Acquired: 6/14/2022 13:54:09 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.474**	**.02512**	**-.00081**	**4.2023**	**.00059**
Stddev	.054	.00003	.00015	.0102	.00023
%RSD	.14299	.13690	17.956	.24363	39.768
#1	37.512	.02509	-.00091	4.2095	.00042
#2	37.437	.02514	-.00071	4.1950	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00204**	**13.810**	**-.00133**	**-.00284**
Stddev	.00	.00099	.015	.00048	.00603
%RSD	.0031	48.863	.11210	36.097	212.38
#1	25.01	.00274	13.820	-.00167	-.00710
#2	25.01	.00133	13.799	-.00099	.00142
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.1665**	**-.00006**	**1.0520**	**1.007**	**.00034**
Stddev	.0056	.00050	.0014	.003	.00005
%RSD	.09085	906.20	.13191	.2922	15.201
#1	6.1626	.00030	1.0529	1.005	.00030
#2	6.1705	-.00041	1.0510	1.009	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-B-7-A Acquired: 6/14/2022 13:54:09 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00235**	**.00011**	**.00316**	**1.000**
Stddev	.00158	.00031	.00045	.001
%RSD	67.319	281.12	14.360	.1059
#1	.00347	.00033	.00348	1.001
#2	.00123	-.00011	.00284	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3590.0**	**3400.7**	**69743.**	**5380.9**
Stddev	1.9	1.3	15.	.2
%RSD	.05173	.03832	.02088	.00350
#1	3591.3	3399.8	69733.	5380.8
#2	3588.6	3401.6	69753.	5381.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.672%	97.256%	96.303%	102.82%
Range				

Sample Name: 480-198641-B-8-A Acquired: 6/14/2022 13:57:58 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00352**	**.00812**	**.09337**	**.12243**
Stddev	.00016	.02278	.00256	.00015	.00006
%RSD	160.73	647.90	31.485	.15590	.04934
#1	.00001	.01963	.00992	.09327	.12247
#2	-.00022	-.01259	.00631	.09347	.12238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**42.874**	**.00003**	**-.1318**	**.00006**
Stddev	.00005	.182	.00027	.0735	.00007
%RSD	519.14	.42498	862.47	55.73	115.01
#1	-.00004	43.003	-.00016	-.1838	.00001
#2	.00002	42.745	.00022	-.0799	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00014**	**.01216**	**3.4324**	**.00543**
Stddev	.00004	.00015	.00045	.0175	.00056
%RSD	49.130	110.09	3.7346	.50989	10.330
#1	-.00006	.00003	.01248	3.4447	.00583
#2	-.00012	.00024	.01184	3.4200	.00504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-B-8-A Acquired: 6/14/2022 13:57:58 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.495**	**.01930**	**.00055**	**21.926**	**.00032**
Stddev	.048	.00001	.00010	.083	.00017
%RSD	.20624	.02674	17.230	.37717	51.471
#1	23.530	.01930	.00049	21.985	.00021
#2	23.461	.01930	.00062	21.868	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00250**	**8.7828**	**-.00075**	**-.00108**
Stddev	.00	.00027	.0088	.00104	.00381
%RSD	.0014	10.777	.10055	138.74	354.22
#1	25.00	.00231	8.7765	-.00001	.00162
#2	25.00	.00269	8.7890	-.00149	-.00377
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6109**	**.00058**	**.69074**	**1.002**	**-.00051**
Stddev	.0289	.00036	.00169	.003	.00039
%RSD	.30070	62.022	.24417	.3213	76.559
#1	9.6314	.00032	.69193	1.004	-.00079
#2	9.5905	.00083	.68955	.9997	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-B-8-A Acquired: 6/14/2022 13:57:58 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00174**	**-.00024**	**-.00042**	**.9992**
Stddev	.00090	.00003	.00055	.0002
%RSD	52.044	13.019	131.79	.0163
#1	.00110	-.00026	-.00081	.9993
#2	.00238	-.00022	-.00003	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3627.2**	**3437.7**	**70445.**	**5366.4**
Stddev	3.4	.8	207.	54.8
%RSD	.09467	.02253	.29397	1.0208
#1	3624.8	3437.2	70299.	5327.7
#2	3629.6	3438.3	70592.	5405.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.634%	98.316%	97.273%	102.54%
Range				

Sample Name: 480-198641-B-9-A Acquired: 6/14/2022 14:01:48 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**.01155**	**.00268**	**.07054**	**.04520**
Stddev	.00045	.00141	.00310	.00015	.00013
%RSD	67.361	12.224	115.44	.20720	.28035
#1	-.00035	.01055	.00488	.07064	.04511
#2	-.00098	.01255	.00049	.07043	.04529
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**107.44**	**.00010**	**-.0401**	**.00009**
Stddev	.00001	.33	.00013	.0902	.00008
%RSD	11.901	.30511	137.36	225.3	89.412
#1	.00005	107.68	.00019	.0237	.00003
#2	.00004	107.21	.00000	-.1039	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.00057**	**.00913**	**3.3296**	**.01164**
Stddev	.00028	.00042	.00027	.0384	.00048
%RSD	180.07	74.205	2.9630	1.1544	4.1004
#1	-.00004	.00027	.00932	3.3568	.01130
#2	.00035	.00087	.00894	3.3024	.01197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-B-9-A Acquired: 6/14/2022 14:01:48 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**56.782**	**.00828**	**.00085**	**24.123**	**.00115**
Stddev	.231	.00002	.00010	.096	.00002
%RSD	.40763	.21923	11.700	.39812	1.3146
#1	56.619	.00826	.00092	24.191	.00114
#2	56.946	.00829	.00078	24.055	.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00188**	**64.176**	**-.00078**	**-.00093**
Stddev	.00	.00017	.013	.00254	.00181
%RSD	.0046	8.9464	.02049	326.11	193.61
#1	25.01	.00200	64.185	-.00258	.00034
#2	25.01	.00176	64.167	.00102	-.00221
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.4832**	**.00006**	**.82605**	**1.004**	**.00032**
Stddev	.0301	.00017	.00296	.004	.00020
%RSD	.67023	273.52	.35802	.3807	64.661
#1	4.5045	.00018	.82814	1.006	.00046
#2	4.4620	-.00006	.82396	1.001	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198641-B-9-A Acquired: 6/14/2022 14:01:48 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00095**	**-.00014**	**.00108**	**1.000**
Stddev	.00098	.00009	.00039	.000
%RSD	103.60	65.643	35.910	.0255
#1	.00025	-.00008	.00135	1.000
#2	.00164	-.00021	.00080	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3483.0**	**3339.8**	**68894.**	**5328.6**
Stddev	1.8	.7	192.	6.6
%RSD	.05155	.01992	.27852	.12366
#1	3481.7	3340.3	69030.	5323.9
#2	3484.2	3339.4	68759.	5333.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.910%	95.516%	95.132%	101.81%
Range				

Sample Name: 198641-6 sol Acquired: 6/14/2022 14:05:39 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.00718**	**.00243**	**.01658**	**.11984**
Stddev	.00068	.00438	.00195	.00006	.00025
%RSD	398.78	61.039	80.461	.36025	.21046
#1	.00031	-.01028	.00105	.01654	.11966
#2	-.00065	-.00408	.00381	.01662	.12001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**129.21**	**-.00001**	**-.0610**	**.00001**
Stddev	.00004	.16	.00010	.1108	.00001
%RSD	973.61	.12655	881.60	181.7	60.670
#1	.00002	129.10	-.00008	.0174	.00001
#2	-.00003	129.33	.00006	-.1394	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**-.00027**	**.00054**	**1.1017**	**.00374**
Stddev	.00026	.00008	.00066	.0196	.00077
%RSD	189.19	31.308	120.63	1.7745	20.510
#1	-.00005	-.00021	.00008	1.0879	.00429
#2	.00033	-.00032	.00101	1.1155	.00320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 198641-6 sol Acquired: 6/14/2022 14:05:39 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**58.070**	**.02117**	**-.00178**	**70.538**	**.00075**
Stddev	.293	.00017	.00019	.079	.00017
%RSD	.50513	.81457	10.416	.11144	22.895
#1	57.862	.02105	-.00191	70.483	.00063
#2	58.277	.02129	-.00165	70.594	.00087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00232**	**7.3260**	**-.00085**	**-.00368**
Stddev	.00	.00052	.0192	.00142	.00125
%RSD	.0054	22.393	.26223	167.92	33.915
#1	25.00	.00269	7.3124	-.00185	-.00280
#2	25.00	.00196	7.3396	.00016	-.00457
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.1662**	**-.00026**	**.14736**	**.9963**	**.00018**
Stddev	.0142	.00073	.00046	.0008	.00012
%RSD	.27464	281.61	.31175	.0822	63.377
#1	5.1561	-.00077	.14704	.9957	.00010
#2	5.1762	.00026	.14769	.9969	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 198641-6 sol Acquired: 6/14/2022 14:05:39 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00408**	**.00024**	**-.00222**	**.9998**
Stddev	.00074	.00010	.00002	.0008
%RSD	18.149	40.430	.82000	.0795
#1	.00460	.00017	-.00223	.9992
#2	.00355	.00031	-.00220	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3442.2**	**3352.7**	**68526.**	**5265.9**
Stddev	1.5	3.3	394.	18.6
%RSD	.04283	.09868	.57441	.35251
#1	3443.3	3355.1	68804.	5279.0
#2	3441.2	3350.4	68247.	5252.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.858%	95.885%	94.623%	100.62%
Range				

Sample Name: 198391-15 tot Acquired: 6/14/2022 14:09:29 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00061**	**.02921**	**.00097**	**.06712**	**.04053**
Stddev	.00113	.00295	.00115	.00013	.00007
%RSD	184.29	10.102	119.52	.19486	.17200
#1	.00019	.02713	.00015	.06703	.04049
#2	-.00141	.03130	.00178	.06721	.04058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**32.700**	**.00012**	**-.0708**	**.00013**
Stddev	.00005	.159	.00016	.1287	.00016
%RSD	199.89	.48693	133.60	181.8	122.04
#1	-.00001	32.812	.00001	.0202	.00024
#2	.00006	32.587	.00023	-.1618	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.00072**	**.00438**	**3.7933**	**.00182**
Stddev	.00016	.00016	.00131	.0081	.00013
%RSD	30.918	22.528	30.031	.21283	7.0014
#1	-.00040	.00060	.00345	3.7876	.00173
#2	-.00062	.00083	.00531	3.7990	.00191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 198391-15 tot Acquired: 6/14/2022 14:09:29 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.7966**	**.00775**	**-.00169**	**33.255**	**.00185**
Stddev	.0135	.00007	.00014	.189	.00013
%RSD	.35493	.94304	8.3468	.56927	7.2150
#1	3.7871	.00770	-.00159	33.388	.00195
#2	3.8061	.00780	-.00179	33.121	.00176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00224**	**7.5329**	**-.00076**	**-.00693**
Stddev	.00	.00071	.0100	.00023	.00190
%RSD	.0046	31.812	.13250	30.258	27.382
#1	25.01	.00173	7.5258	-.00060	-.00828
#2	25.01	.00274	7.5400	-.00092	-.00559
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.1037**	**.00004**	**.12409**	**1.002**	**-.00043**
Stddev	.0269	.00015	.00048	.004	.00023
%RSD	.37929	420.76	.38525	.4006	53.549
#1	7.1227	-.00007	.12442	1.005	-.00027
#2	7.0846	.00014	.12375	.9992	-.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 198391-15 tot Acquired: 6/14/2022 14:09:29 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00377**	**-.00004**	**-.00278**	**.9999**
Stddev	.00096	.00032	.00066	.0001
%RSD	25.388	757.65	23.697	.0079
#1	.00310	.00018	-.00232	.9998
#2	.00445	-.00027	-.00325	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3704.2**	**3479.1**	**70607.**	**5418.8**
Stddev	2.9	1.2	122.	14.0
%RSD	.07728	.03446	.17256	.25846
#1	3706.2	3479.9	70693.	5408.9
#2	3702.2	3478.2	70521.	5428.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.621%	99.498%	97.497%	103.54%
Range				

Sample Name: 198393-3 tot Acquired: 6/14/2022 14:13:19 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.05982**	**.00079**	**.01922**	**.03227**
Stddev	.00031	.00950	.00027	.00064	.00006
%RSD	60.534	15.884	33.627	3.3345	.18010
#1	-.00029	.06654	.00098	.01877	.03223
#2	-.00072	.05310	.00060	.01968	.03231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**15.537**	**-.00006**	**-.0595**	**.00036**
Stddev	.00001	.094	.00007	.1277	.00022
%RSD	32.298	.60233	118.29	214.6	59.977
#1	.00001	15.603	-.00001	.0308	.00052
#2	.00002	15.471	-.00011	-.1498	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.00130**	**1.0665**	**2.1194**	**.00019**
Stddev	.00001	.00012	.0037	.0495	.00095
%RSD	1.9820	9.1215	.34423	2.3367	493.77
#1	-.00046	.00122	1.0691	2.0844	-.00048
#2	-.00045	.00139	1.0639	2.1544	.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 198393-3 tot Acquired: 6/14/2022 14:13:19 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.5727**	**.45208**	**-.00183**	**86.134**	**.00092**
Stddev	.0033	.00137	.00023	.585	.00016
%RSD	.09308	.30378	12.621	.67904	17.106
#1	3.5704	.45111	-.00199	86.548	.00103
#2	3.5751	.45305	-.00167	85.721	.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00189**	**2.3612**	**-.00123**	**-.00346**
Stddev	.00	.00138	.0165	.00081	.00315
%RSD	.0021	72.759	.69756	65.522	90.949
#1	25.01	.00286	2.3729	-.00066	-.00124
#2	25.01	.00092	2.3496	-.00180	-.00569
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9879**	**-.00140**	**.10251**	**1.003**	**.00120**
Stddev	.0255	.00060	.00055	.003	.00010
%RSD	1.2839	42.554	.53248	.2802	8.6222
#1	2.0060	-.00182	.10290	1.001	.00127
#2	1.9699	-.00098	.10213	1.005	.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 198393-3 tot Acquired: 6/14/2022 14:13:19 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00449**	**.00038**	**.00044**	**1.000**
Stddev	.00120	.00012	.00026	.000
%RSD	26.756	30.423	60.045	.0425
#1	.00534	.00047	.00025	1.000
#2	.00364	.00030	.00062	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3491.8**	**3345.1**	**67358.**	**5219.8**
Stddev	8.6	3.1	315.	38.1
%RSD	.24525	.09405	.46800	.73011
#1	3497.8	3347.3	67581.	5192.8
#2	3485.7	3342.8	67135.	5246.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.137%	95.665%	93.010%	99.736%
Range				

Sample Name: 198724-1 sol Acquired: 6/14/2022 14:17:09 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**.00492**	**.00025**	**.00315**	**.00111**
Stddev	.00080	.00559	.00193	.00024	.00002
%RSD	154.68	113.56	758.74	7.5974	2.1675
#1	-.00109	.00097	-.00111	.00299	.00109
#2	.00005	.00888	.00162	.00332	.00113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**2.8256**	**-.00016**	**-.1016**	**.00007**
Stddev	.00001	.0261	.00005	.0185	.00018
%RSD	19.467	.92283	29.496	18.21	264.15
#1	-.00005	2.8441	-.00020	-.1147	-.00006
#2	-.00004	2.8072	-.00013	-.0885	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.00191**	**-.00192**	**-.03407**	**.00044**
Stddev	.00015	.00034	.00026	.00060	.00009
%RSD	33.831	17.538	13.650	1.7488	20.139
#1	-.00054	.00215	-.00173	-.03365	.00037
#2	-.00033	.00168	-.00210	-.03449	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 198724-1 sol Acquired: 6/14/2022 14:17:09 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2736**	**.00020**	**-.00163**	**.71620**	**.00028**
Stddev	.0033	.00004	.00018	.00210	.00018
%RSD	.25645	19.967	10.992	.29294	65.134
#1	1.2759	.00023	-.00150	.71769	.00015
#2	1.2713	.00017	-.00176	.71472	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00039**	**.82166**	**-.00190**	**.00113**
Stddev	.00	.00058	.04866	.00055	.00031
%RSD	.0014	149.40	5.9217	28.720	27.321
#1	25.00	.00080	.85606	-.00152	.00091
#2	25.00	-.00002	.78725	-.00229	.00135
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10252**	**-.00074**	**.02169**	**1.006**	**-.00048**
Stddev	.00263	.00009	.00014	.002	.00029
%RSD	2.5649	11.530	.66726	.2339	59.837
#1	.10066	-.00080	.02179	1.008	-.00027
#2	.10438	-.00068	.02159	1.005	-.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 198724-1 sol Acquired: 6/14/2022 14:17:09 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00208**	**-.00005**	**-.00126**	**.9998**
Stddev	.00013	.00015	.00028	.0010
%RSD	6.1640	299.35	22.420	.1008
#1	.00217	-.00015	-.00106	1.001
#2	.00199	.00005	-.00146	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3861.2**	**3438.4**	**69741.**	**5235.8**
Stddev	7.3	2.9	72.	54.4
%RSD	.18887	.08567	.10351	1.0397
#1	3866.4	3440.5	69690.	5197.3
#2	3856.1	3436.4	69792.	5274.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.674%	98.336%	96.300%	100.04%
Range				

Sample Name: 198560-7 sol Acquired: 6/14/2022 14:21:01 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.02228**	**.00325**	**.17541**	**.24754**
Stddev	.00015	.00919	.00437	.00073	.00014
%RSD	43.796	41.227	134.49	.41707	.05467
#1	.00043	.01579	.00016	.17490	.24744
#2	.00023	.02878	.00634	.17593	.24764
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**118.22**	**.00022**	**.0093**	**.00009**
Stddev	.00002	.04	.00002	.0381	.00008
%RSD	42.027	.03134	8.1103	407.9	94.491
#1	-.00006	118.25	.00023	-.0176	.00003
#2	-.00003	118.19	.00021	.0362	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00451**	**.00128**	**3.7631**	**.01045**
Stddev	.00029	.00018	.00010	.0096	.00091
%RSD	185.83	4.0442	7.8684	.25397	8.7376
#1	-.00036	.00438	.00135	3.7698	.00981
#2	.00005	.00464	.00121	3.7563	.01110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 198560-7 sol Acquired: 6/14/2022 14:21:01 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**81.963**	**.00484**	**-.00161**	**66.578**	**.00329**
Stddev	.209	.00002	.00035	.293	.00012
%RSD	.25533	.40108	21.435	.43952	3.7128
#1	81.815	.00482	-.00137	66.371	.00337
#2	82.111	.00485	-.00186	66.785	.00320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00159**	**24.444**	**.00087**	**-.00489**
Stddev	.00	.00011	.034	.00036	.00617
%RSD	.0017	6.6859	.13963	41.769	126.26
#1	25.02	.00166	24.420	.00061	-.00925
#2	25.02	.00151	24.469	.00113	-.00052
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.206**	**.00010**	F **11.868**	**.9963**	**.00029**
Stddev	.034	.00043	.141	.0047	.00000
%RSD	.33004	452.27	1.1910	.4744	1.3469
#1	10.230	.00040	11.968	.9996	.00029
#2	10.182	-.00021	11.768	.9929	.00030
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 198560-7 sol Acquired: 6/14/2022 14:21:01 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00309**	**.00108**	**.02373**	**1.0000**
Stddev	.00109	.00034	.00021	.0004
%RSD	35.333	31.204	.89572	.0442
#1	.00232	.00084	.02358	1.000
#2	.00386	.00132	.02388	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3294.6**	**3201.5**	**65302.**	**5083.3**
Stddev	.9	2.9	184.	12.7
%RSD	.02584	.08997	.28169	.24888
#1	3295.2	3203.5	65433.	5092.2
#2	3293.9	3199.5	65172.	5074.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.046%	91.560%	90.172%	97.127%
Range				

Sample Name: CCV-7032336 Acquired: 6/14/2022 14:24:57 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0228**	**50.612**	**1.0084**	**1.0378**	**.99460**
Stddev	.0012	.404	.0031	.0012	.00678
%RSD	.11629	.79760	.30223	.11107	.68164
#1	1.0236	50.897	1.0105	1.0386	.99939
#2	1.0220	50.326	1.0062	1.0370	.98980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0171**	**50.756**	**1.0174**	**1.032**	**1.0033**
Stddev	.0096	.440	.0003	.076	.0000
%RSD	.93987	.86755	.02572	7.403	.00256
#1	1.0238	51.067	1.0175	.9782	1.0034
#2	1.0103	50.445	1.0172	1.086	1.0033
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0229**	**1.0201**	**51.590**	**50.012**	**.98379**
Stddev	.0019	.0014	.352	.356	.00909
%RSD	.18266	.13261	.68208	.71123	.92438
#1	1.0243	1.0191	51.839	50.263	.99022
#2	1.0216	1.0210	51.342	49.760	.97736
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 14:24:57 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.991**	**1.0289**	**1.0145**	**49.763**	**1.0103**
Stddev	.132	.0006	.0027	.404	.0004
%RSD	.25822	.05896	.26794	.81126	.03968
#1	51.084	1.0293	1.0164	50.048	1.0100
#2	50.898	1.0285	1.0126	49.477	1.0106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.65**	**1.0127**	**25.251**	**1.0065**	**1.0034**
Stddev	.01	.0011	.014	.0021	.0067
%RSD	.0221	.10617	.05495	.20545	.66526
#1	37.65	1.0134	25.261	1.0079	1.0081
#2	37.64	1.0119	25.241	1.0050	.99865
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.049**	**1.0065**	**1.0064**	**1.509**	**1.0150**
Stddev	.053	.0014	.0084	.013	.0009
%RSD	.52287	.13458	.83485	.8826	.08475
#1	10.086	1.0074	1.0123	1.518	1.0156
#2	10.012	1.0055	1.0004	1.500	1.0144
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 14:24:57 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0224**	**1.0216**	**1.0346**	**1.507**
Stddev	.0038	.0017	.0043	.003
%RSD	.37434	.16807	.41888	.2032
#1	1.0197	1.0229	1.0376	1.509
#2	1.0251	1.0204	1.0315	1.505
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3321.7**	**3308.2**	**66620.**	**5150.0**
Stddev	.5	4.6	166.	34.8
%RSD	.01480	.13924	.24908	.67640
#1	3322.0	3305.0	66503.	5125.4
#2	3321.4	3311.5	66738.	5174.6

Sample Name: CCB-7026764 Acquired: 6/14/2022 14:28:38 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.03493**	**.00252**	**.00077**	**.00003**
Stddev	.00047	.04776	.00053	.00014	.00000
%RSD	432.70	136.72	21.159	17.534	1.9734
#1	.00045	.00116	.00290	.00068	.00004
#2	-.00023	.06870	.00214	.00087	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00018**	**-.00001**	**-.0032**	**.00020**
Stddev	.00005	.00165	.00011	.0973	.00001
%RSD	835.21	939.22	1379.9	3020.	4.6375
#1	-.00004	.00134	.00007	.0656	.00021
#2	.00003	-.00099	-.00008	-.0720	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00024**	**.00193**	**.00139**	**.00006**
Stddev	.00023	.00068	.00337	.00214	.00009
%RSD	71.064	285.62	174.64	153.61	162.35
#1	-.00050	.00072	-.00045	.00290	-.00001
#2	-.00016	-.00024	.00431	-.00012	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 14:28:38 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00248**	**.00004**	**.00145**	**.00928**	**.00006**
Stddev	.00170	.00003	.00019	.00009	.00011
%RSD	68.338	79.623	12.873	.96568	190.99
#1	-.00128	.00002	.00132	.00922	-.00002
#2	-.00368	.00006	.00158	.00934	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00016**	**.00212**	**-.00083**	**.00469**
Stddev	.00	.00096	.00089	.00030	.00275
%RSD	.0018	613.69	41.997	36.638	58.668
#1	25.00	.00084	.00275	-.00062	.00275
#2	25.00	-.00052	.00149	-.00105	.00664
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03125**	**.00020**	**.00020**	**1.004**	**-.00015**
Stddev	.01210	.00076	.00000	.001	.00009
%RSD	38.708	385.25	.46513	.0964	58.061
#1	-.02270	.00074	.00020	1.003	-.00009
#2	-.03981	-.00034	.00020	1.005	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 14:28:38 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00223**	**.00008**	**-.00104**	**.9996**
Stddev	.00058	.00017	.00030	.0001
%RSD	26.000	206.16	28.753	.0112
#1	.00264	.00020	-.00126	.9997
#2	.00182	-.00004	-.00083	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3867.0**	**3477.0**	**71270.**	**5273.8**
Stddev	1.6	1.8	33.	11.6
%RSD	.04123	.05162	.04645	.21904
#1	3868.1	3478.3	71294.	5281.9
#2	3865.9	3475.8	71247.	5265.6

Sample Name: CCVL-7028546 Acquired: 6/14/2022 14:32:32 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00625**	**.19911**	**.01372**	**.01912**	**.00211**
Stddev	.00002	.00792	.00195	.00018	.00000
%RSD	.38576	3.9755	14.191	.96739	.22044
#1	.00623	.19352	.01510	.01899	.00212
#2	.00627	.20471	.01234	.01925	.00211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00200**	**.49757**	**.00206**	**-.0467**	**.00396**
Stddev	.00006	.00202	.00006	.0049	.00003
%RSD	2.9670	.40642	3.1502	10.57	.64568
#1	.00196	.49614	.00210	-.0432	.00398
#2	.00205	.49900	.00201	-.0502	.00394
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00376**	**.01072**	**.05101**	**.45040**	**.02707**
Stddev	.00030	.00006	.00002	.00759	.00016
%RSD	8.0820	.57936	.04306	1.6853	.58818
#1	.00354	.01077	.05099	.45576	.02696
#2	.00397	.01068	.05102	.44503	.02718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/14/2022 14:32:32 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19663**	**.00340**	**.00913**	**.96051**	**.00964**
Stddev	.00088	.00005	.00020	.00088	.00027
%RSD	.44670	1.5271	2.2081	.09179	2.7837
#1	.19601	.00344	.00898	.96113	.00983
#2	.19725	.00337	.00927	.95989	.00945
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01098**	**.18996**	**.01817**	**.01961**
Stddev	.00	.00039	.00329	.00134	.00134
%RSD	.0010	3.5125	1.7314	7.3634	6.8501
#1	25.00	.01126	.18763	.01722	.02056
#2	25.00	.01071	.19228	.01911	.01866
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45054**	**.00946**	**.00508**	F **1.003**	**.00433**
Stddev	.00718	.00007	.00006	.007	.00027
%RSD	1.5927	.76403	1.0977	.7364	6.3238
#1	.45561	.00951	.00504	1.008	.00414
#2	.44546	.00940	.00512	.9977	.00452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/14/2022 14:32:32 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02131**	**.00481**	**.00863**	F **1.0000**
Stddev	.00156	.00016	.00044	.0004
%RSD	7.3240	3.3882	5.1125	.0383
#1	.02241	.00493	.00894	1.000
#2	.02021	.00470	.00832	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3912.1**	**3548.7**	**72606.**	**5365.9**
Stddev	4.6	1.2	47.	9.4
%RSD	.11849	.03245	.06414	.17431
#1	3908.8	3547.9	72639.	5359.2
#2	3915.4	3549.5	72573.	5372.5

Sample Name: MB 480-629611/1-A Acquired: 6/14/2022 14:36:24 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.06603**	**.00156**	**.00100**	**.00050**
Stddev	.00045	.00970	.00009	.00016	.00001
%RSD	241.34	14.688	6.0010	15.882	2.6915
#1	-.00050	.05917	.00149	.00089	.00049
#2	.00013	.07288	.00162	.00112	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.04195**	**.00014**	**-.0182**	**.00005**
Stddev	.00004	.00045	.00008	.0585	.00015
%RSD	25.866	1.0755	55.378	320.9	292.01
#1	.00011	.04163	.00008	-.0596	.00016
#2	.00016	.04227	.00019	.0231	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.00014**	**.00983**	**.00485**	**.00011**
Stddev	.00001	.00012	.00228	.01314	.00049
%RSD	3.7517	81.980	23.224	271.12	435.78
#1	.00037	.00022	.00822	-.00445	.00046
#2	.00039	.00006	.01144	.01414	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629611/1-A Acquired: 6/14/2022 14:36:24 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00189**	**.00016**	**-.00078**	**.03690**	**.00046**
Stddev	.00202	.00000	.00019	.00106	.00001
%RSD	106.62	1.6706	24.793	2.8759	1.1198
#1	.00332	.00016	-.00091	.03615	.00045
#2	.00047	.00016	-.00064	.03765	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00101**	**.02050**	**.00071**	**-.00106**
Stddev	.00	.00038	.00111	.00245	.00255
%RSD	.0037	37.568	5.4378	346.15	241.14
#1	25.03	.00128	.01971	.00244	.00075
#2	25.03	.00074	.02129	-.00103	-.00286
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20797**	F **.05453**	**.00026**	**1.002**	**.00007**
Stddev	.00064	.00006	.00002	.003	.00014
%RSD	.30727	.10279	7.0173	.2714	212.80
#1	.20842	.05457	.00027	1.001	-.00003
#2	.20752	.05449	.00024	1.004	.00017
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.01000			
Low Limit		-.01000			

Sample Name: MB 480-629611/1-A Acquired: 6/14/2022 14:36:24 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00117**	**-.00041**	**.00197**	**1.001**
Stddev	.00005	.00021	.00001	.001
%RSD	3.9878	52.376	.74475	.0580
#1	.00120	-.00056	.00198	1.000
#2	.00113	-.00026	.00196	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3949.4**	**3563.1**	**73534.**	**5472.7**
Stddev	6.1	6.5	176.	23.9
%RSD	.15471	.18120	.23991	.43607
#1	3945.1	3558.5	73659.	5455.8
#2	3953.7	3567.6	73410.	5489.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.95%	101.90%	101.54%	104.57%
Range				

Sample Name: LCSSRM 480-629611/2- Acquired: 6/14/2022 14:40:17 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.27652**	**94.884**	**1.3241**	**.69597**	**2.2306**
Stddev	.00156	.367	.0071	.00234	.0074
%RSD	.56257	.38670	.53664	.33659	.33305
#1	.27762	94.624	1.3291	.69763	2.2253
#2	.27542	95.143	1.3191	.69432	2.2358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.3970**	**43.023**	**1.0798**	**.8269**	**1.1514**
Stddev	.0037	.153	.0036	.0204	.0044
%RSD	.26236	.35546	.33671	2.461	.38483
#1	1.3944	42.915	1.0824	.8413	1.1545
#2	1.3996	43.131	1.0773	.8125	1.1483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2970**	**.47929**	**150.58**	**21.314**	**.06819**
Stddev	.0010	.00003	.64	.072	.00026
%RSD	.07934	.00714	.42753	.33820	.38265
#1	1.2978	.47927	150.13	21.263	.06800
#2	1.2963	.47932	151.04	21.365	.06837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSSRM 480-629611/2- Acquired: 6/14/2022 14:40:17 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.727**	**2.4752**	**.84261**	**1.5602**	**.51319**
Stddev	.007	.0013	.00260	.0049	.00264
%RSD	.03429	.05396	.30868	.31117	.51406
#1	21.722	2.4743	.84445	1.5636	.51505
#2	21.733	2.4762	.84077	1.5568	.51132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.49**	**1.2920**	**.73549**	**.92979**	**1.3609**
Stddev	.01	.0052	.00467	.00483	.0088
%RSD	.0214	.40124	.63452	.51986	.64329
#1	27.50	1.2957	.73879	.93321	1.3671
#2	27.49	1.2883	.73219	.92637	1.3547
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.1891**	**.74666**	**.79354**	**1.178**	**4.6639**
Stddev	.0142	.00684	.00234	.000	.0024
%RSD	.27422	.91639	.29433	.0185	.05143
#1	5.1791	.75150	.79189	1.178	4.6622
#2	5.1992	.74182	.79519	1.178	4.6656
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSSRM 480-629611/2- Acquired: 6/14/2022 14:40:17 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**1.0596**	**.62200**	**1.3189**	**1.036**
Stddev	.0073	.00040	.0042	.000
%RSD	.68596	.06435	.31848	.0295
#1	1.0648	.62171	1.3160	1.036
#2	1.0545	.62228	1.3219	1.036
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3469.8**	**4003.9**	**81514.**	**6230.9**
Stddev	20.1	17.5	40.	1.5
%RSD	.57872	.43670	.04942	.02390
#1	3455.6	3991.6	81543.	6229.8
#2	3484.0	4016.3	81486.	6231.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.571%	114.51%	112.56%	119.06%
Range				

Sample Name: LCDSRM 480-629611/3- Acquired: 6/14/2022 14:43:57 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.28021**	**94.348**	**1.3306**	**.72480**	**2.0996**
Stddev	.00068	.231	.0040	.00009	.0078
%RSD	.24352	.24450	.30278	.01283	.37190
#1	.28069	94.511	1.3335	.72486	2.1051
#2	.27972	94.185	1.3278	.72473	2.0941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4523**	**41.157**	**1.1459**	**.8423**	**1.1874**
Stddev	.0035	.028	.0019	.0770	.0007
%RSD	.23803	.06788	.16775	9.146	.06018
#1	1.4547	41.177	1.1445	.8968	1.1869
#2	1.4498	41.137	1.1473	.7878	1.1879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.3269**	**.49603**	**143.29**	**21.420**	**.06875**
Stddev	.0050	.00063	.44	.043	.00059
%RSD	.37810	.12689	.30415	.20157	.85463
#1	1.3304	.49559	143.59	21.451	.06833
#2	1.3233	.49648	142.98	21.389	.06916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCDSRM 480-629611/3- Acquired: 6/14/2022 14:43:57 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.854**	**2.4125**	**.85544**	**1.5179**	**.53147**
Stddev	.172	.0069	.00025	.0115	.00035
%RSD	.78831	.28828	.02969	.75591	.06530
#1	21.976	2.4175	.85562	1.5260	.53123
#2	21.733	2.4076	.85526	1.5098	.53172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.30**	**1.2913**	**.71390**	**.93669**	**1.3868**
Stddev	.00	.0001	.00413	.00094	.0044
%RSD	.0039	.00629	.57854	.10041	.31545
#1	27.30	1.2912	.71682	.93603	1.3899
#2	27.30	1.2913	.71098	.93736	1.3837
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2020**	**.74638**	**.80700**	**1.167**	**4.6965**
Stddev	.0048	.00061	.00163	.003	.0049
%RSD	.09155	.08114	.20204	.2944	.10433
#1	5.2054	.74681	.80815	1.170	4.6999
#2	5.1986	.74595	.80585	1.165	4.6930
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCDSRM 480-629611/3- Acquired: 6/14/2022 14:43:57 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**1.1099**	**.60949**	**1.3128**	**1.035**
Stddev	.0022	.00039	.0108	.000
%RSD	.19829	.06433	.82314	.0330
#1	1.1084	.60976	1.3204	1.036
#2	1.1115	.60921	1.3051	1.035
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3472.6**	**4009.1**	**81790.**	**6287.0**
Stddev	5.9	4.9	353.	2.1
%RSD	.16893	.12170	.43188	.03321
#1	3468.4	4005.7	81540.	6288.5
#2	3476.7	4012.6	82040.	6285.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.642%	114.66%	112.94%	120.13%
Range				

Sample Name: 480-198256-D-11-B Acquired: 6/14/2022 14:47:36 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00125**	**74.294**	**.03822**	**.01647**	**.32182**
Stddev	.00037	.128	.00221	.00021	.00027
%RSD	29.766	.17294	5.7840	1.2862	.08437
#1	-.00152	74.204	.03666	.01632	.32163
#2	-.00099	74.385	.03978	.01662	.32201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00316**	**46.356**	**.00140**	**.0597**	**.06405**
Stddev	.00003	.110	.00001	.0403	.00036
%RSD	1.1084	.23673	.96015	67.47	.55483
#1	.00318	46.434	.00141	.0312	.06380
#2	.00313	46.279	.00139	.0882	.06430
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14681**	**.17860**	**131.57**	**9.6651**	**.08995**
Stddev	.00065	.00019	.02	.0031	.00013
%RSD	.44157	.10585	.01583	.03215	.14059
#1	.14636	.17847	131.59	9.6673	.08986
#2	.14727	.17873	131.56	9.6629	.09004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198256-D-11-B Acquired: 6/14/2022 14:47:36 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.681**	**2.3557**	**.00759**	**1.6246**	**.10719**
Stddev	.022	.0004	.00036	.0004	.00020
%RSD	.06589	.01765	4.7125	.02659	.18553
#1	33.697	2.3560	.00734	1.6249	.10705
#2	33.666	2.3554	.00785	1.6243	.10733
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.64**	**.34861**	**6.8512**	**.01270**	**.00226**
Stddev	.00	.00010	.0008	.00093	.00113
%RSD	.0173	.02749	.01196	7.3030	50.078
#1	27.63	.34854	6.8518	.01204	.00306
#2	27.64	.34868	6.8507	.01336	.00146
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.3733**	**.05701**	**.19934**	**1.074**	**8.2198**
Stddev	.0248	.00028	.00004	.002	.0046
%RSD	.46162	.48583	.02100	.2166	.05663
#1	5.3908	.05681	.19937	1.076	8.2231
#2	5.3558	.05720	.19931	1.073	8.2165
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198256-D-11-B Acquired: 6/14/2022 14:47:36 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00635**	**.31332**	**.62282**	**1.016**
Stddev	.00131	.00065	.00177	.000
%RSD	20.637	.20597	.28343	.0311
#1	-.00542	.31378	.62158	1.016
#2	-.00728	.31286	.62407	1.016
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3519.9**	**3735.3**	**76438.**	**5876.4**
Stddev	5.1	3.8	82.	10.0
%RSD	.14371	.10160	.10784	.17028
#1	3516.3	3732.6	76496.	5869.3
#2	3523.5	3738.0	76380.	5883.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.863%	106.83%	105.55%	112.28%
Range				

Sample Name: 480-198256-D-12-B Acquired: 6/14/2022 14:51:24 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00084**	**45.737**	**.04933**	**.00685**	**.14999**
Stddev	.00009	.000	.00242	.00045	.00020
%RSD	10.305	.00067	4.8986	6.6281	.13075
#1	-.00090	45.737	.05104	.00717	.15013
#2	-.00078	45.737	.04762	.00653	.14985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00217**	**9.4395**	**.00605**	**.0292**	**.01943**
Stddev	.00008	.0081	.00014	.0273	.00008
%RSD	3.4864	.08575	2.2662	93.45	.40127
#1	.00223	9.4452	.00595	.0485	.01937
#2	.00212	9.4338	.00615	.0099	.01948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08614**	**.05952**	**60.597**	**5.2019**	**.07429**
Stddev	.00003	.00019	.081	.0391	.00008
%RSD	.03154	.31541	.13379	.75073	.10144
#1	.08616	.05938	60.540	5.2296	.07435
#2	.08612	.05965	60.655	5.1743	.07424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198256-D-12-B Acquired: 6/14/2022 14:51:24 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.085**	**.53122**	**.00193**	**1.0544**	**.05143**
Stddev	.018	.00002	.00003	.0015	.00011
%RSD	.13980	.00457	1.7194	.14089	.21737
#1	13.098	.53120	.00195	1.0533	.05136
#2	13.072	.53123	.00190	1.0554	.05151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.96**	**.45666**	**.78176**	**.00529**	**.00006**
Stddev	.00	.00111	.00200	.00164	.00148
%RSD	.0053	.24272	.25530	31.039	2407.1
#1	25.96	.45745	.78035	.00646	.00111
#2	25.96	.45588	.78317	.00413	-.00098
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.9936**	**.05628**	**.05059**	**1.041**	**2.9001**
Stddev	.0461	.00026	.00012	.003	.0059
%RSD	.92245	.46188	.23367	.2772	.20195
#1	5.0261	.05610	.05067	1.039	2.9043
#2	4.9610	.05646	.05051	1.043	2.8960
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198256-D-12-B Acquired: 6/14/2022 14:51:24 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00277**	**.10391**	**.52737**	**1.008**
Stddev	.00172	.00006	.00067	.000
%RSD	61.969	.05369	.12616	.0016
#1	-.00156	.10395	.52690	1.008
#2	-.00398	.10387	.52784	1.008
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3696.7**	**3638.4**	**74938.**	**5625.6**
Stddev	5.6	4.9	110.	13.5
%RSD	.15193	.13372	.14703	.23945
#1	3692.7	3635.0	75016.	5635.2
#2	3700.6	3641.8	74860.	5616.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.427%	104.05%	103.48%	107.49%
Range				

Sample Name: 198256-D-12-Bsd@5 Acquired: 6/14/2022 14:55:07 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**9.6484**	**.01130**	**.00221**	**.03279**
Stddev	.00001	.1172	.00205	.00005	.00009
%RSD	4.6666	1.2142	18.130	2.4404	.26941
#1	-.00025	9.7312	.01275	.00218	.03285
#2	-.00024	9.5656	.00985	.00225	.03273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**2.0622**	**.00134**	**-.0423**	**.00398**
Stddev	.00003	.0127	.00011	.1053	.00016
%RSD	7.6720	.61332	7.9345	249.1	4.0998
#1	.00043	2.0711	.00127	-.1168	.00409
#2	.00048	2.0532	.00142	.0322	.00386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01800**	**.01243**	**12.956**	**1.0588**	**.01688**
Stddev	.00040	.00019	.053	.0065	.00157
%RSD	2.2089	1.5677	.40602	.61183	9.2735
#1	.01828	.01229	12.993	1.0634	.01578
#2	.01772	.01257	12.918	1.0542	.01799
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 198256-D-12-Bsd@5 Acquired: 6/14/2022 14:55:07 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.8352**	**.11481**	**-.00070**	**.21641**	**.01046**
Stddev	.0049	.00019	.00006	.00607	.00011
%RSD	.17172	.16793	8.5925	2.8036	1.0095
#1	2.8318	.11494	-.00074	.22070	.01038
#2	2.8386	.11467	-.00066	.21212	.01053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.20**	**.09320**	**.16068**	**.00099**	**.00083**
Stddev	.00	.00062	.00009	.00047	.00032
%RSD	.0013	.66346	.05601	47.109	38.187
#1	25.20	.09277	.16062	.00132	.00061
#2	25.20	.09364	.16075	.00066	.00106
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0187**	**.01083**	**.01134**	**1.009**	**.60871**
Stddev	.0098	.00062	.00004	.001	.00119
%RSD	.96069	5.6992	.37127	.1432	.19608
#1	1.0256	.01040	.01137	1.010	.60956
#2	1.0118	.01127	.01131	1.008	.60787
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 198256-D-12-Bsd@5 Acquired: 6/14/2022 14:55:07 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00171**	**.02188**	**.11206**	**1.002**
Stddev	.00002	.00031	.00017	.001
%RSD	.91419	1.4065	.14852	.1011
#1	.00170	.02210	.11194	1.003
#2	.00173	.02166	.11218	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3866.3**	**3582.9**	**73589.**	**5469.4**
Stddev	2.4	2.3	41.	34.8
%RSD	.06273	.06322	.05597	.63707
#1	3864.6	3581.3	73560.	5444.8
#2	3868.1	3584.5	73619.	5494.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.807%	102.47%	101.61%	104.51%
Range				

Sample Name: 480-198256-D-12-BPDS Acquired: 6/14/2022 14:58:57 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09312**	**61.884**	**.42731**	**.37504**	**.53176**
Stddev	.00015	.043	.00092	.00018	.00129
%RSD	.16144	.06937	.21427	.04850	.24341
#1	.09301	61.854	.42666	.37517	.53085
#2	.09322	61.914	.42795	.37491	.53268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.39689**	**27.919**	**.38026**	**-.0149**	**.41353**
Stddev	.00108	.044	.00034	.0243	.00001
%RSD	.27148	.15589	.09002	163.0	.00171
#1	.39765	27.949	.38002	-.0321	.41353
#2	.39612	27.888	.38050	.0023	.41352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47536**	**.45716**	**76.225**	**24.043**	**.44571**
Stddev	.00085	.00241	.032	.060	.00244
%RSD	.17789	.52673	.04166	.25155	.54659
#1	.47596	.45887	76.203	24.086	.44398
#2	.47477	.45546	76.247	24.001	.44743
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198256-D-12-BPDS Acquired: 6/14/2022 14:58:57 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.572**	**.89790**	**.39795**	**19.895**	**.43701**
Stddev	.081	.00215	.00020	.005	.00092
%RSD	.25508	.23893	.04914	.02639	.21002
#1	31.629	.89942	.39809	19.899	.43636
#2	31.515	.89639	.39781	19.892	.43766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.92**	**.82587**	**19.087**	**.40072**	**.37034**
Stddev	.00	.00003	.010	.00172	.00065
%RSD	.0024	.00369	.05259	.42926	.17494
#1	25.92	.82585	19.080	.40193	.36988
#2	25.92	.82589	19.094	.39950	.37080
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.245**	**.44618**	**.43873**	**1.048**	**3.1465**
Stddev	.089	.00272	.00168	.004	.0072
%RSD	.38408	.61001	.38362	.3594	.22866
#1	23.308	.44426	.43992	1.051	3.1516
#2	23.181	.44811	.43754	1.046	3.1414
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198256-D-12-BPDS Acquired: 6/14/2022 14:58:57 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.39991**	**.48402**	**.87669**	**1.010**
Stddev	.00078	.00115	.00322	.000
%RSD	.19483	.23845	.36758	.0033
#1	.39936	.48483	.87897	1.010
#2	.40046	.48320	.87441	1.010
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3527.0**	**3561.0**	**72919.**	**5594.8**
Stddev	6.2	4.9	107.	5.5
%RSD	.17449	.13852	.14693	.09768
#1	3522.6	3557.5	72843.	5598.7
#2	3531.3	3564.5	72995.	5591.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.046%	101.84%	100.69%	106.90%
Range				

Sample Name: 480-198256-D-12-C MS Acquired: 6/14/2022 15:02:40 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08973**	**73.585**	**.41205**	**.36705**	**.59643**
Stddev	.00010	.170	.00046	.00036	.00166
%RSD	.11234	.23151	.11167	.09919	.27825
#1	.08966	73.706	.41172	.36679	.59526
#2	.08981	73.465	.41237	.36731	.59760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38036**	**34.702**	**.36707**	**-.0032**	**.41603**
Stddev	.00003	.043	.00047	.0032	.00063
%RSD	.00737	.12498	.12844	100.8	.15062
#1	.38034	34.733	.36674	-.0009	.41558
#2	.38038	34.671	.36741	-.0054	.41647
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45329**	**.44110**	**81.229**	**26.908**	**.45856**
Stddev	.00107	.00082	.140	.006	.00185
%RSD	.23678	.18550	.17204	.02402	.40315
#1	.45405	.44167	81.130	26.913	.45726
#2	.45253	.44052	81.328	26.904	.45987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198256-D-12-C MS Acquired: 6/14/2022 15:02:40 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.635**	**1.1703**	**.38384**	**20.416**	**.42591**
Stddev	.027	.0003	.00036	.019	.00078
%RSD	.07929	.02120	.09456	.09548	.18264
#1	33.654	1.1705	.38358	20.430	.42536
#2	33.616	1.1701	.38410	20.403	.42646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.93**	**.80968**	**18.795**	**.35562**	**.36151**
Stddev	.00	.00234	.009	.00062	.00064
%RSD	.0027	.28959	.04826	.17335	.17786
#1	25.93	.80802	18.788	.35605	.36197
#2	25.93	.81134	18.801	.35518	.36106
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.182**	**.51940**	**.50932**	**1.048**	**4.0718**
Stddev	.011	.00285	.00067	.000	.0077
%RSD	.06384	.54886	.13214	.0176	.18914
#1	17.190	.51739	.50980	1.048	4.0773
#2	17.174	.52142	.50885	1.048	4.0664
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198256-D-12-C MS Acquired: 6/14/2022 15:02:40 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.38304**	**.47362**	**.84342**	**1.023**
Stddev	.00241	.00063	.00179	.001
%RSD	.62967	.13247	.21225	.0488
#1	.38474	.47407	.84469	1.023
#2	.38133	.47318	.84215	1.023
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3496.1**	**3590.4**	**73386.**	**5651.3**
Stddev	1.1	1.8	86.	1.7
%RSD	.03057	.05136	.11742	.02924
#1	3496.9	3589.1	73325.	5652.5
#2	3495.4	3591.7	73447.	5650.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.250%	102.68%	101.33%	107.98%
Range				

Sample Name: 198256-D-12-D MSD Acquired: 6/14/2022 15:06:23 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09267**	**75.843**	**.42536**	**.37255**	**.58836**
Stddev	.00007	.224	.00080	.00030	.00022
%RSD	.07901	.29584	.18763	.07983	.03817
#1	.09273	75.684	.42480	.37276	.58820
#2	.09262	76.002	.42593	.37234	.58852
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.39006**	**42.515**	**.37788**	**-.0546**	**.42502**
Stddev	.00090	.083	.00004	.0745	.00070
%RSD	.23130	.19591	.01178	136.5	.16372
#1	.38942	42.456	.37791	-.0019	.42551
#2	.39070	42.574	.37785	-.1073	.42452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47611**	**.45276**	**87.946**	**26.955**	**.44011**
Stddev	.00195	.00006	.316	.072	.00104
%RSD	.40889	.01233	.35891	.26705	.23695
#1	.47473	.45280	87.723	26.904	.44085
#2	.47749	.45272	88.169	27.006	.43938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 198256-D-12-D MSD Acquired: 6/14/2022 15:06:23 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.049**	**1.3001**	**.39506**	**21.061**	**.45609**
Stddev	.002	.0005	.00067	.034	.00044
%RSD	.00540	.03829	.16927	.16283	.09605
#1	38.048	1.2998	.39553	21.037	.45578
#2	38.051	1.3005	.39458	21.085	.45640
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.32**	**.74667**	**19.023**	**.36272**	**.37094**
Stddev	.00	.00073	.030	.00085	.00172
%RSD	.0042	.09732	.15859	.23438	.46436
#1	26.32	.74615	19.044	.36212	.37216
#2	26.32	.74718	19.001	.36332	.36972
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.965**	**.53320**	**.46590**	**1.050**	**5.4759**
Stddev	.033	.00009	.00183	.005	.0072
%RSD	.17454	.01739	.39278	.5217	.13173
#1	18.942	.53326	.46460	1.046	5.4708
#2	18.989	.53313	.46719	1.054	5.4810
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 198256-D-12-D MSD Acquired: 6/14/2022 15:06:23 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.39254**	**.52614**	**.86457**	**1.023**
Stddev	.00050	.00023	.00196	.000
%RSD	.12763	.04298	.22692	.0037
#1	.39219	.52630	.86318	1.023
#2	.39290	.52598	.86596	1.023
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3473.4**	**3587.4**	**73204.**	**5641.2**
Stddev	2.0	1.5	109.	15.1
%RSD	.05746	.04284	.14932	.26712
#1	3472.0	3586.4	73281.	5651.9
#2	3474.8	3588.5	73126.	5630.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.663%	102.60%	101.08%	107.79%
Range				

Sample Name: CCV-7032336 Acquired: 6/14/2022 15:10:07 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0336**	**51.069**	**1.0172**	**1.0498**	**1.0058**
Stddev	.0010	.181	.0026	.0040	.0051
%RSD	.09979	.35409	.25182	.38338	.50433
#1	1.0344	51.197	1.0154	1.0469	1.0094
#2	1.0329	50.941	1.0190	1.0526	1.0023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0245**	**51.281**	**1.0301**	**.9574**	**1.0191**
Stddev	.0066	.211	.0001	.0390	.0003
%RSD	.64899	.41167	.01063	4.077	.03043
#1	1.0292	51.430	1.0300	.9298	1.0189
#2	1.0198	51.132	1.0302	.9850	1.0193
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0341**	**1.0288**	**52.085**	**50.572**	**.99180**
Stddev	.0012	.0018	.382	.141	.00498
%RSD	.11484	.17585	.73339	.27904	.50193
#1	1.0333	1.0301	52.355	50.672	.99532
#2	1.0349	1.0275	51.815	50.472	.98828
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 15:10:07 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.735**	**1.0408**	**1.0275**	**50.221**	**1.0238**
Stddev	.138	.0024	.0021	.207	.0009
%RSD	.26684	.23371	.20204	.41205	.09159
#1	51.833	1.0425	1.0290	50.368	1.0244
#2	51.638	1.0390	1.0260	50.075	1.0231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.83**	**1.0246**	**25.526**	**1.0219**	**1.0171**
Stddev	.01	.0012	.025	.0020	.0039
%RSD	.0170	.11587	.09934	.19906	.38014
#1	37.83	1.0254	25.508	1.0205	1.0198
#2	37.84	1.0237	25.544	1.0233	1.0143
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.218**	**1.0204**	**1.0186**	**1.512**	**1.0304**
Stddev	.016	.0007	.0056	.006	.0027
%RSD	.16125	.07109	.54730	.4264	.25707
#1	10.229	1.0209	1.0225	1.516	1.0323
#2	10.206	1.0199	1.0147	1.507	1.0286
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 15:10:07 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0353**	**1.0317**	**1.0495**	**1.511**
Stddev	.0003	.0024	.0014	.003
%RSD	.02779	.23494	.12842	.2242
#1	1.0355	1.0335	1.0486	1.513
#2	1.0351	1.0300	1.0505	1.509
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3318.2**	**3313.9**	**66794.**	**5149.0**
Stddev	.9	.6	285.	13.8
%RSD	.02738	.01873	.42677	.26811
#1	3317.5	3313.4	66592.	5139.2
#2	3318.8	3314.3	66995.	5158.7

Sample Name: CCB-7026764 Acquired: 6/14/2022 15:13:47 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**.01667**	**.00393**	**.00137**	**.00004**
Stddev	.00092	.01217	.00052	.00008	.00000
%RSD	208.28	72.984	13.227	6.1334	1.6061
#1	.00109	.02528	.00356	.00143	.00004
#2	-.00021	.00807	.00429	.00131	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**-.00129**	**-.00002**	**-.0432**	**.00013**
Stddev	.00002	.00132	.00010	.0842	.00013
%RSD	6992.4	102.72	547.30	195.2	102.19
#1	-.00002	-.00222	-.00009	.0164	.00022
#2	.00002	-.00035	.00005	-.1027	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00036**	**.00087**	**.04679**	**.00064**
Stddev	.00016	.00035	.00048	.03233	.00142
%RSD	71.466	98.161	55.946	69.105	220.84
#1	-.00011	.00061	.00052	.06965	.00165
#2	-.00033	.00011	.00121	.02392	-.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 15:13:47 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00243**	**-.00001**	**.00124**	**-.00199**	**.00018**
Stddev	.00028	.00002	.00064	.00153	.00007
%RSD	11.601	218.84	51.805	76.908	40.976
#1	-.00223	-.00002	.00078	-.00308	.00013
#2	-.00263	.00000	.00169	-.00091	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00109**	**-.00195**	**.00041**	**.00253**
Stddev	.00	.00044	.00079	.00030	.00299
%RSD	.0050	40.366	40.647	72.530	118.10
#1	25.00	.00141	-.00251	.00020	.00042
#2	25.00	.00078	-.00139	.00062	.00465
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02200**	**.00033**	**.00011**	**1.001**	**.00004**
Stddev	.00593	.00025	.00006	.001	.00010
%RSD	26.971	76.002	54.103	.0620	229.03
#1	-.01780	.00050	.00015	1.001	.00011
#2	-.02619	.00015	.00007	1.000	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 15:13:47 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00170**	**-.00014**	**-.00196**	**.9999**
Stddev	.00078	.00005	.00051	.0001
%RSD	45.923	36.627	25.947	.0142
#1	.00115	-.00018	-.00160	1.0000
#2	.00226	-.00011	-.00232	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3893.4**	**3510.5**	**72101.**	**5257.2**
Stddev	2.5	1.8	50.	4.0
%RSD	.06322	.05166	.06910	.07575
#1	3891.6	3511.8	72065.	5260.0
#2	3895.1	3509.2	72136.	5254.4

Sample Name: CCVL-7028546 Acquired: 6/14/2022 15:17:41 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00567**	**.18474**	**.01629**	**.01987**	**.00213**
Stddev	.00017	.00007	.00263	.00003	.00002
%RSD	2.9876	.03752	16.159	.17525	.96994
#1	.00579	.18469	.01443	.01989	.00211
#2	.00555	.18478	.01815	.01984	.00214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00215**	**.50242**	**.00190**	**-.0686**	**.00392**
Stddev	.00007	.00450	.00002	.0421	.00003
%RSD	3.1964	.89534	1.0704	61.39	.74342
#1	.00220	.50560	.00189	-.0388	.00390
#2	.00210	.49924	.00192	-.0983	.00394
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00380**	**.01087**	**.05154**	**.47182**	**.02855**
Stddev	.00032	.00033	.00052	.00786	.00028
%RSD	8.4017	3.0467	.99997	1.6652	.97976
#1	.00403	.01110	.05190	.47738	.02875
#2	.00358	.01063	.05117	.46627	.02836
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/14/2022 15:17:41 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19471**	**.00345**	**.00942**	**.96233**	**.00976**
Stddev	.00577	.00002	.00015	.00147	.00007
%RSD	2.9628	.65324	1.6116	.15270	.69168
#1	.19879	.00347	.00931	.96337	.00971
#2	.19063	.00343	.00952	.96129	.00981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01062**	**.18433**	**.01813**	**.02656**
Stddev	.00	.00085	.00217	.00120	.00046
%RSD	.0032	7.9821	1.1784	6.6163	1.7192
#1	25.00	.01002	.18279	.01897	.02624
#2	25.00	.01122	.18587	.01728	.02688
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45740**	**.00917**	**.00517**	F **1.005**	**.00457**
Stddev	.01545	.00005	.00011	.002	.00001
%RSD	3.3770	.55962	2.0357	.1834	.23963
#1	.46832	.00914	.00525	1.004	.00457
#2	.44648	.00921	.00510	1.006	.00456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/14/2022 15:17:41 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02083**	**.00481**	**.00882**	F **1.000**
Stddev	.00053	.00005	.00087	.000
%RSD	2.5226	1.1020	9.8885	.0019
#1	.02120	.00477	.00944	1.000
#2	.02045	.00485	.00821	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3922.8**	**3552.4**	**73125.**	**5333.2**
Stddev	4.5	2.0	122.	6.9
%RSD	.11361	.05622	.16649	.13024
#1	3919.6	3551.0	73039.	5328.3
#2	3925.9	3553.8	73211.	5338.1

Sample Name: 480-198752-A-1-A Acquired: 6/14/2022 15:21:33 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**38.023**	**.02031**	**.00347**	**.04721**
Stddev	.00022	.124	.00188	.00004	.00002
%RSD	260.45	.32555	9.2432	1.2723	.04953
#1	.00024	38.110	.02164	.00344	.04719
#2	-.00007	37.935	.01899	.00351	.04722
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00130**	**5.9215**	**.00004**	**.0959**	**.00862**
Stddev	.00009	.0188	.00014	.0219	.00004
%RSD	6.9683	.31744	368.70	22.82	.44321
#1	.00137	5.9348	-.00006	.0804	.00864
#2	.00124	5.9082	.00013	.1113	.00859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04790**	**.00938**	**27.674**	**3.1305**	**.04064**
Stddev	.00035	.00025	.014	.0233	.00358
%RSD	.73239	2.6260	.05059	.74376	8.8201
#1	.04815	.00956	27.664	3.1469	.04318
#2	.04766	.00921	27.683	3.1140	.03811
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198752-A-1-A Acquired: 6/14/2022 15:21:33 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.0193**	**.29190**	**-.00026**	**.77119**	**.03608**
Stddev	.0230	.00022	.00026	.00402	.00002
%RSD	.32733	.07383	102.08	.52134	.05304
#1	7.0031	.29174	-.00045	.76835	.03609
#2	7.0355	.29205	-.00007	.77404	.03606
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.88**	**.02198**	**.29630**	**.00117**	**-.00137**
Stddev	.00	.00043	.00018	.00087	.00020
%RSD	.0051	1.9598	.05994	74.389	14.850
#1	25.88	.02168	.29618	.00178	-.00123
#2	25.88	.02228	.29643	.00055	-.00152
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.4823**	**.05453**	**.01973**	**1.028**	**1.7226**
Stddev	.0426	.00003	.00009	.004	.0003
%RSD	.95076	.06092	.45979	.3788	.01847
#1	4.5124	.05450	.01967	1.031	1.7229
#2	4.4522	.05455	.01979	1.025	1.7224
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198752-A-1-A Acquired: 6/14/2022 15:21:33 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00120**	**.05825**	**.06079**	**1.006**
Stddev	.00051	.00001	.00037	.000
%RSD	42.081	.01501	.61533	.0195
#1	-.00084	.05824	.06053	1.006
#2	-.00156	.05825	.06106	1.006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3767.7**	**3656.3**	**74895.**	**5602.1**
Stddev	5.0	3.7	24.	8.1
%RSD	.13370	.10113	.03213	.14445
#1	3764.1	3653.7	74878.	5596.3
#2	3771.3	3658.9	74912.	5607.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.261%	104.57%	103.42%	107.04%
Range				

Sample Name: 480-198752-A-4-B Acquired: 6/14/2022 15:25:20 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**43.670**	**.01586**	**.00310**	**.05404**
Stddev	.00025	.321	.00187	.00020	.00022
%RSD	94.755	.73569	11.792	6.3095	.40157
#1	-.00009	43.897	.01719	.00324	.05419
#2	-.00045	43.442	.01454	.00296	.05389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00133**	**6.3497**	**.00001**	**.0136**	**.00860**
Stddev	.00005	.0535	.00011	.0223	.00008
%RSD	4.0656	.84306	896.03	164.1	.90832
#1	.00129	6.3875	-.00006	-.0022	.00854
#2	.00136	6.3118	.00009	.0294	.00866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05279**	**.00996**	**26.367**	**2.8831**	**.05097**
Stddev	.00081	.00014	.186	.0171	.00165
%RSD	1.5430	1.4486	.70572	.59456	3.2465
#1	.05336	.01006	26.499	2.8952	.04980
#2	.05221	.00986	26.236	2.8710	.05214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198752-A-4-B Acquired: 6/14/2022 15:25:20 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.7475**	**.30610**	**-.00029**	**.93303**	**.03629**
Stddev	.0384	.00160	.00035	.00155	.00007
%RSD	.49572	.52237	120.45	.16565	.18896
#1	7.7746	.30723	-.00054	.93413	.03624
#2	7.7203	.30497	-.00004	.93194	.03634
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.91**	**.04173**	**.65845**	**.00162**	**.00082**
Stddev	.00	.00010	.00709	.00151	.00261
%RSD	.0006	.23852	1.0768	93.354	318.32
#1	25.91	.04166	.66346	.00269	.00267
#2	25.91	.04180	.65344	.00055	-.00103
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2587**	**.05270**	**.02383**	**1.025**	**2.1094**
Stddev	.0805	.00039	.00013	.006	.0073
%RSD	1.5316	.74829	.53938	.5865	.34735
#1	5.3157	.05242	.02392	1.021	2.1146
#2	5.2018	.05298	.02374	1.029	2.1043
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198752-A-4-B Acquired: 6/14/2022 15:25:20 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00220**	**.05458**	**.05826**	**1.007**
Stddev	.00088	.00038	.00012	.001
%RSD	40.059	.68729	.20270	.0546
#1	-.00283	.05485	.05818	1.006
#2	-.00158	.05432	.05835	1.007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3759.6**	**3684.2**	**75261.**	**5685.3**
Stddev	4.8	7.4	398.	62.6
%RSD	.12769	.20219	.52875	1.1010
#1	3756.2	3678.9	74980.	5641.0
#2	3763.0	3689.5	75542.	5729.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.051%	105.36%	103.92%	108.63%
Range				

Sample Name: 480-198752-A-7-B Acquired: 6/14/2022 15:29:06 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**26.260**	**.01906**	**.01292**	**.73138**
Stddev	.00011	.008	.00050	.00031	.00035
%RSD	30.915	.03207	2.6291	2.4022	.04763
#1	.00045	26.266	.01942	.01314	.73163
#2	.00029	26.254	.01871	.01270	.73113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00100**	**16.311**	**.00192**	**.1007**	**.00420**
Stddev	.00004	.013	.00006	.0185	.00020
%RSD	4.2602	.07756	3.3377	18.38	4.7115
#1	.00103	16.302	.00188	.1138	.00406
#2	.00097	16.320	.00197	.0876	.00434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96043**	**.05810**	**11.430**	**1.4099**	**.01293**
Stddev	.00013	.00007	.013	.0013	.00082
%RSD	.01382	.12850	.10999	.09392	6.3604
#1	.96052	.05805	11.439	1.4108	.01235
#2	.96033	.05816	11.421	1.4090	.01352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198752-A-7-B Acquired: 6/14/2022 15:29:06 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0130**	**.16696**	**.00366**	**1.9906**	**.01851**
Stddev	.0069	.00033	.00007	.0079	.00012
%RSD	.34540	.19679	1.8676	.39835	.67396
#1	2.0179	.16719	.00371	1.9850	.01842
#2	2.0081	.16673	.00361	1.9963	.01860
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.27**	**2.5406**	**3.9375**	**.00236**	**.00364**
Stddev	.00	.0022	.0077	.00007	.00146
%RSD	.0038	.08848	.19623	2.8233	40.222
#1	26.27	2.5422	3.9320	.00231	.00260
#2	26.26	2.5390	3.9430	.00240	.00467
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.3348**	**.05913**	**.07861**	**1.013**	**1.2292**
Stddev	.0562	.00004	.00002	.001	.0047
%RSD	.88782	.07139	.02364	.1304	.37992
#1	6.3745	.05910	.07862	1.012	1.2259
#2	6.2950	.05916	.07860	1.014	1.2325
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198752-A-7-B Acquired: 6/14/2022 15:29:06 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00078**	**.05531**	**.34381**	**1.002**
Stddev	.00052	.00037	.00255	.001
%RSD	67.351	.67303	.74043	.0715
#1	.00115	.05505	.34561	1.003
#2	.00041	.05557	.34201	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3785.2**	**3609.8**	**73946.**	**5574.7**
Stddev	2.9	1.9	224.	10.0
%RSD	.07721	.05240	.30264	.17899
#1	3783.2	3608.5	73788.	5581.7
#2	3787.3	3611.1	74105.	5567.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.713%	103.24%	102.11%	106.52%
Range				

Sample Name: 480-198752-A-8-B Acquired: 6/14/2022 15:32:58 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**55.287**	**.02939**	**.00485**	**.07470**
Stddev	.00080	.246	.00336	.00035	.00012
%RSD	129.21	.44544	11.422	7.2544	.15725
#1	-.00119	55.462	.03176	.00510	.07462
#2	-.00005	55.113	.02701	.00460	.07479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00177**	**6.6667**	**.00012**	**.0437**	**.00718**
Stddev	.00004	.0373	.00008	.1122	.00005
%RSD	2.2898	.56016	64.585	256.7	.76125
#1	.00174	6.6931	.00007	-.0356	.00722
#2	.00180	6.6403	.00018	.1230	.00714
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06440**	**.00896**	**28.187**	**2.3231**	**.04286**
Stddev	.00009	.00016	.091	.0066	.00221
%RSD	.13602	1.7896	.32309	.28474	5.1476
#1	.06446	.00907	28.251	2.3185	.04442
#2	.06434	.00884	28.122	2.3278	.04130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198752-A-8-B Acquired: 6/14/2022 15:32:58 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.9445**	**.28319**	**-.00004**	**.96870**	**.02969**
Stddev	.0086	.00028	.00010	.00500	.00018
%RSD	.12324	.09910	250.37	.51612	.60854
#1	6.9384	.28339	-.00011	.97223	.02982
#2	6.9505	.28300	.00003	.96516	.02957
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.09**	**.06821**	**.83667**	**.00327**	**.00367**
Stddev	.00	.00088	.00141	.00107	.00184
%RSD	.0034	1.2920	.16798	32.708	50.223
#1	26.09	.06883	.83766	.00403	.00237
#2	26.09	.06759	.83568	.00251	.00497
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.5530**	**.05157**	**.02043**	**1.032**	**1.9390**
Stddev	.0742	.00065	.00003	.004	.0028
%RSD	.98255	1.2580	.12740	.4097	.14431
#1	7.6055	.05203	.02045	1.029	1.9410
#2	7.5006	.05111	.02041	1.035	1.9370
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198752-A-8-B Acquired: 6/14/2022 15:32:58 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00079**	**.07277**	**.06537**	**1.003**
Stddev	.00016	.00051	.00038	.001
%RSD	20.178	.70295	.58226	.0528
#1	-.00090	.07241	.06510	1.003
#2	-.00068	.07313	.06564	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3755.0**	**3701.4**	**75365.**	**5724.6**
Stddev	7.9	6.5	4.	.2
%RSD	.21158	.17505	.00487	.00333
#1	3749.4	3696.8	75363.	5724.8
#2	3760.6	3706.0	75368.	5724.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.932%	105.86%	104.07%	109.38%
Range				

Sample Name: 480-198752-A-9-B Acquired: 6/14/2022 15:36:44 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**34.021**	**.03986**	**.00404**	**.06716**
Stddev	.00020	.030	.00314	.00100	.00015
%RSD	78.347	.08840	7.8769	24.656	.22216
#1	-.00040	34.042	.03764	.00474	.06726
#2	-.00011	34.000	.04208	.00334	.06705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00138**	**6.7052**	**.00006**	**.1044**	**.00902**
Stddev	.00009	.0014	.00002	.0160	.00004
%RSD	6.4288	.02062	33.799	15.28	.45792
#1	.00132	6.7062	.00007	.1157	.00899
#2	.00145	6.7042	.00004	.0932	.00905
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04925**	**.01323**	**28.869**	**3.4764**	**.04747**
Stddev	.00054	.00009	.025	.0224	.00005
%RSD	1.0867	.68375	.08628	.64387	.11534
#1	.04963	.01329	28.886	3.4922	.04751
#2	.04887	.01317	28.851	3.4606	.04743
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198752-A-9-B Acquired: 6/14/2022 15:36:44 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.2997**	**.32636**	**-.00005**	**.77802**	**.03482**
Stddev	.0153	.00071	.00015	.00230	.00015
%RSD	.18428	.21632	321.44	.29556	.44132
#1	8.3105	.32686	-.00015	.77639	.03492
#2	8.2889	.32586	.00006	.77964	.03471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.98**	**.02128**	**.21670**	**.00263**	**-.00152**
Stddev	.00	.00024	.00154	.00214	.00360
%RSD	.0023	1.1199	.70888	81.403	236.78
#1	25.98	.02111	.21778	.00112	.00103
#2	25.98	.02145	.21561	.00414	-.00407
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.7818**	**.05202**	**.02233**	**1.028**	**2.1970**
Stddev	.0189	.00020	.00006	.003	.0021
%RSD	.39609	.38748	.27429	.2690	.09753
#1	4.7952	.05188	.02229	1.026	2.1986
#2	4.7684	.05217	.02238	1.030	2.1955
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198752-A-9-B Acquired: 6/14/2022 15:36:44 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00058**	**.05865**	**.06251**	**1.007**
Stddev	.00045	.00042	.00078	.000
%RSD	76.865	.72387	1.2464	.0246
#1	-.00090	.05895	.06196	1.007
#2	-.00026	.05835	.06306	1.007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3744.9**	**3681.7**	**75353.**	**5686.7**
Stddev	1.1	.8	210.	5.1
%RSD	.02925	.02234	.27894	.08914
#1	3744.1	3681.1	75204.	5683.1
#2	3745.7	3682.3	75501.	5690.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.671%	105.29%	104.05%	108.66%
Range				

Sample Name: 480-198752-A-12-A Acquired: 6/14/2022 15:40:30 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00086**	**32.443**	**.01922**	**.00272**	**.06826**
Stddev	.00036	.165	.00083	.00042	.00017
%RSD	41.874	.50891	4.3034	15.593	.25351
#1	-.00060	32.560	.01863	.00242	.06838
#2	-.00111	32.326	.01980	.00302	.06813
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00134**	**5.9864**	**.00000**	**-.0561**	**.01199**
Stddev	.00013	.0307	.00003	.0997	.00001
%RSD	9.8697	.51201	716.53	177.8	.06421
#1	.00124	6.0081	.00003	.0144	.01198
#2	.00143	5.9647	-.00002	-.1266	.01200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05378**	**.01149**	**31.648**	**3.7583**	**.04869**
Stddev	.00008	.00035	.089	.0374	.00127
%RSD	.14084	3.0811	.28043	.99506	2.6121
#1	.05373	.01174	31.711	3.7847	.04959
#2	.05384	.01124	31.585	3.7318	.04779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198752-A-12-A Acquired: 6/14/2022 15:40:30 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.7537**	**.33076**	**-.00067**	**1.0426**	**.04569**
Stddev	.0340	.00060	.00022	.0124	.00008
%RSD	.38880	.18023	32.630	1.1884	.18282
#1	8.7777	.33118	-.00082	1.0513	.04575
#2	8.7296	.33034	-.00051	1.0338	.04563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.85**	**.01716**	**.20210**	**.00377**	**-.00052**
Stddev	.00	.00005	.00320	.00226	.00138
%RSD	.0158	.31751	1.5824	60.024	263.79
#1	25.85	.01720	.20436	.00217	-.00149
#2	25.85	.01712	.19984	.00537	.00045
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8886**	**.05159**	**.01981**	**1.023**	**2.1407**
Stddev	.0511	.00046	.00015	.001	.0023
%RSD	1.0457	.89288	.75369	.0655	.10739
#1	4.9247	.05127	.01992	1.023	2.1423
#2	4.8524	.05192	.01971	1.024	2.1390
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198752-A-12-A Acquired: 6/14/2022 15:40:30 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00285**	**.05939**	**.07032**	**1.007**
Stddev	.00025	.00037	.00100	.001
%RSD	8.7086	.62906	1.4255	.0750
#1	-.00302	.05965	.06961	1.007
#2	-.00267	.05913	.07103	1.006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3749.5**	**3666.5**	**74890.**	**5670.0**
Stddev	2.0	8.3	230.	18.1
%RSD	.05221	.22587	.30726	.31960
#1	3750.9	3660.6	74728.	5657.2
#2	3748.1	3672.3	75053.	5682.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.791%	104.86%	103.41%	108.34%
Range				

Sample Name: 480-198781-B-1-D Acquired: 6/14/2022 15:44:16 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**53.300**	**.40422**	**.19568**	**.68673**
Stddev	.00070	.183	.00183	.00032	.00060
%RSD	695.36	.34379	.45249	.16162	.08776
#1	-.00039	53.429	.40551	.19590	.68630
#2	.00060	53.170	.40292	.19546	.68715
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00715**	F **993.78**	**.01829**	**.1903**	**.05927**
Stddev	.00003	1.31	.00020	.0308	.00002
%RSD	.37439	.13208	1.1126	16.19	.03007
#1	.00713	992.85	.01815	.2121	.05926
#2	.00717	994.71	.01844	.1685	.05928
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.33925**	**.34812**	F **864.30**	**5.8136**	**.07438**
Stddev	.00025	.00091	.90	.0140	.00033
%RSD	.07463	.26011	.10427	.24062	.43819
#1	.33943	.34748	864.94	5.8037	.07415
#2	.33907	.34876	863.66	5.8235	.07461
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			540.00		
Low Limit			-.05000		

Sample Name: 480-198781-B-1-D Acquired: 6/14/2022 15:44:16 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.799**	**12.247**	**.03208**	**.82700**	**.25061**
Stddev	.038	.018	.00027	.00115	.00038
%RSD	.21237	.14334	.82759	.13922	.15266
#1	17.772	12.234	.03227	.82781	.25034
#2	17.826	12.259	.03189	.82618	.25088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.21**	**1.3245**	**14.396**	**.08181**	**.01988**
Stddev	.00	.0001	.003	.00083	.00372
%RSD	.0002	.00508	.01839	1.0147	18.726
#1	26.21	1.3245	14.394	.08122	.02252
#2	26.21	1.3246	14.398	.08240	.01725
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.631**	**.12547**	**.90462**	**1.382**	**1.7222**
Stddev	.201	.00093	.00335	.002	.0009
%RSD	.65691	.74198	.36983	.1063	.04985
#1	30.774	.12481	.90699	1.383	1.7215
#2	30.489	.12613	.90226	1.381	1.7228
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198781-B-1-D Acquired: 6/14/2022 15:44:16 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.01069**	**.20177**	**3.6248**	**1.046**
Stddev	.00073	.00072	.0099	.000
%RSD	6.8720	.35725	.27401	.0016
#1	-.01121	.20228	3.6178	1.046
#2	-.01017	.20126	3.6319	1.046
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2893.3**	**3282.8**	**68452.**	**5459.8**
Stddev	3.5	.0	22.	2.5
%RSD	.12043	.00132	.03275	.04519
#1	2890.8	3282.9	68468.	5458.0
#2	2895.7	3282.8	68436.	5461.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.688%	93.886%	94.521%	104.32%
Range				

Sample Name: 480-198781-B-2-F Acquired: 6/14/2022 15:48:19 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00146**	**52.361**	**.30385**	**.12109**	**.70869**
Stddev	.00026	.079	.00318	.00020	.00059
%RSD	18.025	.15009	1.0458	.16809	.08373
#1	.00165	52.306	.30610	.12123	.70911
#2	.00128	52.417	.30161	.12094	.70827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00657**	**805.75**	**.01968**	**.1662**	**.07569**
Stddev	.00010	1.05	.00033	.0389	.00031
%RSD	1.5744	.12975	1.6788	23.39	.40993
#1	.00665	806.49	.01991	.1937	.07591
#2	.00650	805.01	.01945	.1387	.07547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.27859**	**.42912**	F **666.10**	**9.2330**	**.07118**
Stddev	.00128	.00017	.46	.0449	.00030
%RSD	.45857	.03947	.06851	.48586	.41454
#1	.27768	.42900	665.78	9.2013	.07097
#2	.27949	.42924	666.43	9.2647	.07139
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			540.00		
Low Limit			-.05000		

Sample Name: 480-198781-B-2-F Acquired: 6/14/2022 15:48:19 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.059**	**11.282**	**.03086**	**.95252**	**.20124**
Stddev	.044	.013	.00022	.00437	.00021
%RSD	.13745	.11234	.71177	.45883	.10430
#1	32.028	11.273	.03102	.94943	.20139
#2	32.090	11.291	.03071	.95561	.20110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.36**	**1.8589**	**7.7904**	**.06356**	**.00982**
Stddev	.01	.0008	.0118	.00059	.00185
%RSD	.0190	.04175	.15094	.92122	18.844
#1	26.36	1.8595	7.7987	.06314	.01113
#2	26.36	1.8584	7.7821	.06397	.00851
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.099**	**.11205**	**.72532**	**1.312**	**1.6801**
Stddev	.045	.00107	.00006	.001	.0013
%RSD	.24737	.95744	.00854	.0742	.07968
#1	18.131	.11281	.72537	1.311	1.6791
#2	18.068	.11129	.72528	1.312	1.6810
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198781-B-2-F Acquired: 6/14/2022 15:48:19 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00590**	**.18642**	**5.0407**	**1.040**
Stddev	.00273	.00073	.0227	.001
%RSD	46.323	.38954	.44977	.0774
#1	-.00783	.18693	5.0247	1.039
#2	-.00396	.18590	5.0567	1.040
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2965.9**	**3319.6**	**69140.**	**5487.1**
Stddev	1.8	.4	141.	19.6
%RSD	.06138	.01078	.20417	.35689
#1	2967.2	3319.9	69240.	5500.9
#2	2964.6	3319.4	69041.	5473.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.562%	94.938%	95.471%	104.84%
Range				

Sample Name: 480-198812-A-1-A Acquired: 6/14/2022 15:52:21 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**107.75**	**.05626**	**.02375**	**.68376**
Stddev	.00015	.07	.00287	.00005	.00095
%RSD	18.719	.06175	5.1059	.21701	.13875
#1	-.00069	107.80	.05423	.02379	.68443
#2	-.00090	107.70	.05829	.02372	.68309
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00458**	**41.359**	**.00257**	**.1591**	**.07735**
Stddev	.00000	.064	.00005	.0554	.00004
%RSD	.09231	.15393	2.0743	34.85	.04972
#1	.00458	41.404	.00253	.1983	.07732
#2	.00458	41.314	.00260	.1199	.07737
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.33408**	**.24156**	**160.79**	**21.181**	**.17463**
Stddev	.00280	.00079	.22	.001	.00117
%RSD	.83712	.32595	.13428	.00413	.66951
#1	.33210	.24100	160.94	21.181	.17546
#2	.33606	.24211	160.63	21.182	.17380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198812-A-1-A Acquired: 6/14/2022 15:52:21 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**44.842**	**2.2239**	**.00472**	**2.2383**	**.24002**
Stddev	.073	.0052	.00007	.0024	.00095
%RSD	.16213	.23243	1.3885	.10682	.39623
#1	44.791	2.2203	.00468	2.2400	.24069
#2	44.894	2.2276	.00477	2.2366	.23935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.54**	**2.9882**	**2.2302**	**.01289**	**-.00461**
Stddev	.00	.0081	.0017	.00102	.00002
%RSD	.0093	.27049	.07640	7.8838	.33943
#1	27.54	2.9939	2.2315	.01361	-.00460
#2	27.54	2.9824	2.2290	.01217	-.00462
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.1064**	**.06931**	**.22371**	**1.090**	**10.616**
Stddev	.0171	.00087	.00059	.002	.012
%RSD	.33454	1.2561	.26405	.2115	.10865
#1	5.0943	.06992	.22413	1.091	10.608
#2	5.1185	.06869	.22330	1.088	10.624
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198812-A-1-A Acquired: 6/14/2022 15:52:21 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00998**	**.30518**	**.86110**	**1.019**
Stddev	.00009	.00087	.00444	.001
%RSD	.88324	.28431	.51552	.0710
#1	-.01005	.30456	.85796	1.019
#2	-.00992	.30579	.86424	1.018
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3441.3**	**3769.2**	**77419.**	**5893.8**
Stddev	6.0	.9	86.	5.9
%RSD	.17535	.02315	.11165	.10089
#1	3437.0	3768.6	77358.	5889.6
#2	3445.5	3769.9	77480.	5898.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.834%	107.80%	106.90%	112.61%
Range				

Sample Name: CCV-7032336 Acquired: 6/14/2022 15:56:15 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0065**	**50.239**	**.99763**	**1.0298**	**.99747**
Stddev	.0043	.261	.00022	.0010	.00585
%RSD	.42542	.51913	.02237	.09742	.58601
#1	1.0035	50.423	.99747	1.0291	1.0016
#2	1.0096	50.054	.99779	1.0305	.99333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0124**	**50.185**	**1.0099**	**1.000**	**.99615**
Stddev	.0044	.200	.0003	.028	.00205
%RSD	.43811	.39878	.02886	2.795	.20571
#1	1.0156	50.326	1.0097	.9804	.99470
#2	1.0093	50.043	1.0101	1.020	.99760
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0192**	**1.0085**	**50.762**	**50.039**	**.98571**
Stddev	.0022	.0021	.322	.226	.00511
%RSD	.21511	.20346	.63377	.45222	.51832
#1	1.0176	1.0071	50.989	50.199	.98932
#2	1.0207	1.0100	50.534	49.879	.98210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 15:56:15 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.145**	**1.0138**	**1.0099**	**49.787**	**.99990**
Stddev	.132	.0030	.0002	.287	.00316
%RSD	.26255	.29609	.02149	.57549	.31582
#1	50.052	1.0116	1.0098	49.989	.99767
#2	50.238	1.0159	1.0101	49.584	1.0021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.55**	**1.0001**	**25.015**	**1.0044**	**.99149**
Stddev	.01	.0026	.033	.0006	.00041
%RSD	.0332	.25547	.13347	.06181	.04167
#1	37.54	.99826	24.991	1.0040	.99119
#2	37.55	1.0019	25.039	1.0049	.99178
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.013**	**.99738**	**.99937**	**1.507**	**1.0145**
Stddev	.054	.00084	.00398	.002	.0036
%RSD	.54048	.08425	.39866	.1048	.35414
#1	10.051	.99797	1.0022	1.508	1.0119
#2	9.9746	.99678	.99655	1.506	1.0170
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 15:56:15 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0123**	**1.0106**	**1.0160**	**1.504**
Stddev	.0044	.0032	.0032	.002
%RSD	.43038	.31375	.31289	.1034
#1	1.0093	1.0084	1.0138	1.505
#2	1.0154	1.0129	1.0183	1.503
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3389.9**	**3375.6**	**68595.**	**5203.7**
Stddev	4.9	1.9	34.	19.1
%RSD	.14548	.05524	.04942	.36740
#1	3393.4	3376.9	68619.	5190.2
#2	3386.4	3374.3	68571.	5217.2

Sample Name: CCB-7026764 Acquired: 6/14/2022 15:59:55 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00958**	**.00425**	**.00078**	**.00006**
Stddev	.00043	.02384	.00151	.00011	.00002
%RSD	2464.4	248.94	35.651	14.538	28.575
#1	-.00029	.02644	.00532	.00086	.00005
#2	.00032	-.00728	.00318	.00070	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00283**	**-.00008**	**-.0134**	**.00007**
Stddev	.00000	.00314	.00000	.0702	.00019
%RSD	47.389	110.95	5.8338	524.3	275.78
#1	-.00001	-.00505	-.00008	-.0630	-.00006
#2	-.00000	-.00061	-.00008	.0362	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00044**	**.00517**	**.03732**	**.00086**
Stddev	.00028	.00012	.00302	.03190	.00032
%RSD	127.39	28.199	58.347	85.465	37.353
#1	-.00002	.00035	.00304	.05988	.00108
#2	-.00041	.00053	.00731	.01477	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 15:59:55 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**-.00003**	**.00110**	**-.01238**	**.00015**
Stddev	.00613	.00005	.00034	.00245	.00030
%RSD	799.96	142.73	30.434	19.788	197.77
#1	.00510	-.00006	.00086	-.01065	-.00006
#2	-.00357	.00000	.00134	-.01412	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00160**	**-.00288**	**-.00031**	**.00345**
Stddev	.00	.00006	.00129	.00106	.00009
%RSD	.0074	3.5896	44.967	345.13	2.5920
#1	25.00	.00164	-.00196	.00044	.00339
#2	25.00	.00156	-.00379	-.00105	.00352
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02879**	**-.00041**	**.00014**	**1.002**	**.00019**
Stddev	.00383	.00040	.00002	.003	.00008
%RSD	13.321	98.111	11.980	.3247	42.995
#1	-.02607	-.00069	.00016	1.005	.00014
#2	-.03150	-.00012	.00013	1.000	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 15:59:55 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00284**	**-.00024**	**-.00108**	**.9999**
Stddev	.00225	.00015	.00069	.0000
%RSD	79.259	63.339	64.266	.0016
#1	.00444	-.00035	-.00156	.9999
#2	.00125	-.00013	-.00059	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3907.3**	**3527.2**	**72509.**	**5349.7**
Stddev	2.0	5.4	115.	15.2
%RSD	.05152	.15278	.15842	.28352
#1	3908.7	3531.0	72590.	5339.0
#2	3905.9	3523.3	72428.	5360.4

Sample Name: CCVL-7028546 Acquired: 6/14/2022 16:03:49 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00519**	**.19497**	**.01603**	**.01916**	**.00212**
Stddev	.00060	.00711	.00057	.00041	.00000
%RSD	11.554	3.6486	3.5544	2.1259	.16098
#1	.00477	.20000	.01643	.01887	.00212
#2	.00561	.18994	.01563	.01945	.00213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**.50323**	**.00214**	**-.1275**	**.00391**
Stddev	.00007	.00066	.00005	.0286	.00003
%RSD	3.1821	.13197	2.3210	22.46	.73736
#1	.00203	.50276	.00217	-.1073	.00393
#2	.00213	.50370	.00210	-.1478	.00389
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00383**	**.01089**	**.05244**	**.45729**	**.02758**
Stddev	.00003	.00076	.00077	.01618	.00074
%RSD	.85730	6.9881	1.4735	3.5378	2.6695
#1	.00381	.01143	.05298	.46873	.02810
#2	.00386	.01035	.05189	.44586	.02706
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/14/2022 16:03:49 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19412**	**.00351**	**.00903**	**.94587**	**.00968**
Stddev	.00020	.00004	.00010	.00141	.00012
%RSD	.10053	1.1383	1.1264	.14913	1.2087
#1	.19399	.00348	.00910	.94487	.00960
#2	.19426	.00354	.00896	.94687	.00976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00928**	**.18692**	**.01862**	**.02618**
Stddev	.00	.00029	.00061	.00022	.00138
%RSD	.0004	3.1302	.32750	1.1767	5.2754
#1	25.00	.00908	.18736	.01846	.02521
#2	25.00	.00949	.18649	.01877	.02716
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44309**	**.00963**	**.00515**	F **1.006**	**.00487**
Stddev	.00412	.00025	.00013	.006	.00042
%RSD	.92941	2.6455	2.4565	.5890	8.5407
#1	.44600	.00981	.00506	1.010	.00458
#2	.44017	.00945	.00524	1.002	.00517
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/14/2022 16:03:49 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02152**	**.00507**	**.00941**	F **.9997**
Stddev	.00076	.00014	.00003	.0000
%RSD	3.5106	2.8249	.28146	.0005
#1	.02098	.00496	.00939	.9997
#2	.02205	.00517	.00943	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3922.1**	**3557.5**	**72861.**	**5382.9**
Stddev	7.8	4.8	27.	16.1
%RSD	.19931	.13375	.03718	.29938
#1	3916.5	3554.2	72842.	5394.3
#2	3927.6	3560.9	72881.	5371.5

Sample Name: 480-198812-B-2-A Acquired: 6/14/2022 16:07:42 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04897**	**16.029**	**.03204**	**.15443**	F **37.344**
Stddev	.00050	.055	.00003	.00088	.102
%RSD	1.0226	.34075	.08699	.56867	.27332
#1	.04862	16.067	.03202	.15381	37.416
#2	.04932	15.990	.03206	.15505	37.272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00132**	**58.142**	**.05778**	**-.0343**	**.00425**
Stddev	.00007	.120	.00016	.0120	.00001
%RSD	4.9678	.20717	.27394	35.02	.13600
#1	.00137	58.227	.05790	-.0428	.00425
#2	.00128	58.056	.05767	-.0258	.00425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.7913**	**.75694**	**25.397**	**1.1239**	**.01617**
Stddev	.0084	.00089	.067	.0032	.00037
%RSD	.47009	.11767	.26535	.28199	2.3056
#1	1.7854	.75631	25.444	1.1217	.01643
#2	1.7973	.75757	25.349	1.1262	.01591
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198812-B-2-A Acquired: 6/14/2022 16:07:42 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.4454**	**.51431**	**.05689**	**1.4163**	**.06025**
Stddev	.0033	.00106	.00007	.0120	.00013
%RSD	.13565	.20673	.11463	.84980	.21009
#1	2.4431	.51355	.05684	1.4248	.06034
#2	2.4477	.51506	.05693	1.4078	.06017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.75**	F **192.18**	**34.983**	**.06015**	**.00243**
Stddev	.01	.21	.071	.00239	.00055
%RSD	.0204	.10855	.20432	3.9730	22.595
#1	28.75	192.33	35.034	.05846	.00281
#2	28.75	192.03	34.932	.06184	.00204
Check ?	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		110.00			
Low Limit		-.01000			

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3300**	**.28292**	**.26884**	**1.015**	**.66228**
Stddev	.0337	.00268	.00102	.004	.00084
%RSD	.36119	.94769	.37998	.3690	.12731
#1	9.3538	.28482	.26956	1.018	.66168
#2	9.3061	.28102	.26811	1.013	.66287
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198812-B-2-A Acquired: 6/14/2022 16:07:42 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00226**	**.05419**	**12.126**	**1.000**
Stddev	.00071	.00003	.030	.000
%RSD	31.337	.06037	.24880	.0207
#1	.00276	.05421	12.105	1.000
#2	.00176	.05417	12.148	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3635.4**	**3485.9**	**72592.**	**5539.1**
Stddev	4.1	2.0	16.	22.3
%RSD	.11345	.05836	.02141	.40292
#1	3632.5	3484.4	72581.	5523.3
#2	3638.3	3487.3	72603.	5554.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.845%	99.693%	100.24%	105.84%
Range				

Sample Name: 480-198812-B-3-A Acquired: 6/14/2022 16:11:31 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00186**	**148.16**	**.05803**	**.02044**	**1.1354**
Stddev	.00042	.49	.00100	.00076	.0046
%RSD	22.447	.33149	1.7302	3.7275	.40050
#1	-.00215	148.50	.05874	.01990	1.1387
#2	-.00156	147.81	.05732	.02098	1.1322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00558**	**46.449**	**.00168**	**.1777**	**.14298**
Stddev	.00004	.144	.00017	.0756	.00033
%RSD	.76272	.30971	10.266	42.53	.22838
#1	.00561	46.550	.00180	.1242	.14321
#2	.00555	46.347	.00156	.2311	.14275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.35937**	**.28614**	**245.84**	**26.324**	**.25019**
Stddev	.00043	.00004	.39	.175	.00168
%RSD	.11830	.01389	.15908	.66669	.67301
#1	.35907	.28611	246.12	26.448	.25138
#2	.35967	.28617	245.57	26.200	.24900
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198812-B-3-A Acquired: 6/14/2022 16:11:31 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**81.100**	**2.2463**	**.00375**	**7.2079**	**.40301**
Stddev	.170	.0025	.00010	.0241	.00098
%RSD	.20917	.10945	2.7973	.33409	.24275
#1	80.980	2.2446	.00367	7.2250	.40370
#2	81.220	2.2481	.00382	7.1909	.40232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.07**	**1.3995**	**1.3676**	**.02676**	**.00160**
Stddev	.00	.0034	.0020	.00146	.00043
%RSD	.0022	.24170	.14626	5.4641	26.950
#1	28.07	1.4019	1.3662	.02780	.00190
#2	28.07	1.3971	1.3690	.02573	.00129
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.0662**	**.06137**	**.27405**	**1.139**	**9.5201**
Stddev	.0187	.00050	.00142	.001	.0160
%RSD	.26536	.80997	.51686	.0498	.16760
#1	7.0795	.06102	.27505	1.140	9.5314
#2	7.0530	.06172	.27305	1.139	9.5088
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198812-B-3-A Acquired: 6/14/2022 16:11:31 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.01268**	**.41406**	**1.1787**	**1.029**
Stddev	.00010	.00110	.0003	.001
%RSD	.75427	.26605	.02273	.0727
#1	-.01274	.41328	1.1785	1.030
#2	-.01261	.41484	1.1789	1.029
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3329.1**	**3803.3**	**78302.**	**5982.6**
Stddev	5.5	1.8	11.	23.6
%RSD	.16551	.04768	.01387	.39442
#1	3325.2	3802.0	78295.	5965.9
#2	3333.0	3804.6	78310.	5999.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.937%	108.77%	108.12%	114.31%
Range				

Sample Name: 480-198812-A-27-A Acquired: 6/14/2022 16:15:25 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00112**	**18.720**	**.01802**	**.01482**	**6.9201**
Stddev	.00052	.029	.00079	.00014	.0403
%RSD	46.346	.15452	4.4061	.97448	.58200
#1	.00148	18.700	.01858	.01471	6.9486
#2	.00075	18.740	.01746	.01492	6.8916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00092**	**16.707**	**.00585**	**.0276**	**.00823**
Stddev	.00007	.007	.00001	.0360	.00004
%RSD	7.8947	.04013	.21485	130.3	.54314
#1	.00097	16.702	.00586	.0531	.00820
#2	.00087	16.711	.00584	.0022	.00826
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0479**	**.15235**	**15.190**	**2.0058**	**.01545**
Stddev	.0022	.00022	.025	.0106	.00114
%RSD	.20701	.14226	.16535	.52995	7.3984
#1	1.0464	.15219	15.173	2.0133	.01464
#2	1.0495	.15250	15.208	1.9983	.01626
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198812-A-27-A Acquired: 6/14/2022 16:15:25 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.3547**	**.23916**	**.01411**	**1.8455**	**.03581**
Stddev	.0066	.00067	.00068	.0010	.00022
%RSD	.19574	.27954	4.8296	.05420	.62541
#1	3.3501	.23869	.01363	1.8448	.03597
#2	3.3593	.23963	.01459	1.8462	.03565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.59**	**35.097**	**8.7352**	**.00825**	**.00079**
Stddev	.00	.028	.0006	.00061	.00325
%RSD	.0092	.08016	.00650	7.3881	413.41
#1	26.59	35.117	8.7348	.00868	.00308
#2	26.59	35.077	8.7356	.00782	-.00151
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.5808**	**.10359**	**.08342**	**1.012**	**1.2660**
Stddev	.0085	.00015	.00015	.003	.0012
%RSD	.11177	.14826	.18084	.2810	.09289
#1	7.5868	.10370	.08332	1.010	1.2651
#2	7.5748	.10348	.08353	1.014	1.2668
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198812-A-27-A Acquired: 6/14/2022 16:15:25 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00202**	**.06594**	**2.0173**	**1.002**
Stddev	.00090	.00013	.0030	.000
%RSD	44.432	.19389	.14990	.0401
#1	.00138	.06585	2.0194	1.002
#2	.00265	.06603	2.0151	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3768.4**	**3575.7**	**73843.**	**5505.3**
Stddev	6.7	4.8	195.	17.5
%RSD	.17772	.13472	.26392	.31777
#1	3763.7	3572.3	73705.	5492.9
#2	3773.1	3579.1	73981.	5517.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.278%	102.26%	101.96%	105.19%
Range				

Sample Name: 480-198812-A-28-A Acquired: 6/14/2022 16:19:17 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**54.242**	**.01591**	**.01014**	**.12379**
Stddev	.00004	.161	.00036	.00055	.00011
%RSD	4.4490	.29675	2.2785	5.3922	.08929
#1	-.00080	54.356	.01566	.01053	.12387
#2	-.00085	54.128	.01617	.00975	.12371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00190**	**12.339**	**.00015**	**-.0078**	**.00504**
Stddev	.00002	.048	.00014	.0102	.00015
%RSD	.83132	.39124	93.123	130.4	2.9217
#1	.00189	12.373	.00025	-.0006	.00514
#2	.00191	12.305	.00005	-.0151	.00493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06809**	**.00954**	**21.235**	**2.2441**	**.03864**
Stddev	.00009	.00011	.032	.0019	.00043
%RSD	.12934	1.1573	.15083	.08658	1.1101
#1	.06803	.00947	21.257	2.2455	.03833
#2	.06816	.00962	21.212	2.2428	.03894
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198812-A-28-A Acquired: 6/14/2022 16:19:17 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.5282**	**.24253**	**.00213**	**.77708**	**.02425**
Stddev	.0193	.00059	.00021	.00551	.00023
%RSD	.29642	.24126	10.073	.70866	.94087
#1	6.5419	.24294	.00198	.77318	.02441
#2	6.5146	.24211	.00228	.78097	.02409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.97**	**.41170**	**2.4171**	**.00363**	**.00067**
Stddev	.00	.00246	.0014	.00162	.00427
%RSD	.0006	.59841	.05970	44.688	637.65
#1	25.97	.41345	2.4182	.00248	-.00235
#2	25.97	.40996	2.4161	.00478	.00369
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.8111**	**.05280**	**.03207**	**1.020**	**1.6636**
Stddev	.0390	.00009	.00000	.000	.0075
%RSD	.57313	.17033	.00403	.0154	.44785
#1	6.8387	.05274	.03207	1.020	1.6688
#2	6.7835	.05287	.03207	1.021	1.6583
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198812-A-28-A Acquired: 6/14/2022 16:19:17 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.04684**	**.04786**	**1.004**
Stddev	.00080	.00028	.00005	.000
%RSD	195.28	.60410	.11112	.0371
#1	.00016	.04705	.04790	1.004
#2	-.00097	.04664	.04782	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3736.7**	**3602.8**	**73828.**	**5510.2**
Stddev	5.8	5.9	144.	14.7
%RSD	.15541	.16467	.19509	.26601
#1	3732.6	3598.6	73727.	5499.8
#2	3740.8	3607.0	73930.	5520.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.460%	103.04%	101.94%	105.28%
Range				

Sample Name: 480-198812-A-29-A Acquired: 6/14/2022 16:23:02 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00113**	**51.591**	**.01573**	**.00802**	**.06957**
Stddev	.00105	.002	.00363	.00042	.00009
%RSD	92.699	.00439	23.050	5.2518	.12932
#1	-.00039	51.593	.01317	.00773	.06951
#2	-.00187	51.590	.01829	.00832	.06963
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00173**	**10.200**	**.00011**	**.0719**	**.00619**
Stddev	.00002	.000	.00019	.1016	.00013
%RSD	.94070	.00459	171.47	141.3	2.1099
#1	.00172	10.200	-.00002	.1438	.00628
#2	.00174	10.199	.00024	.0001	.00610
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05013**	**.00665**	**23.522**	**2.7730**	**.03778**
Stddev	.00062	.00035	.029	.0063	.00038
%RSD	1.2461	5.2629	.12245	.22859	1.0015
#1	.05057	.00640	23.542	2.7775	.03804
#2	.04969	.00689	23.501	2.7685	.03751
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198812-A-29-A Acquired: 6/14/2022 16:23:02 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.1354**	**.28546**	**.00019**	**.61651**	**.02845**
Stddev	.0346	.00100	.00000	.00035	.00004
%RSD	.48523	.34958	2.5386	.05646	.14086
#1	7.1109	.28476	.00019	.61626	.02842
#2	7.1599	.28617	.00020	.61675	.02848
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.99**	**.07496**	**1.7658**	**-.00083**	**-.00141**
Stddev	.00	.00128	.0070	.00036	.00068
%RSD	.0060	1.7116	.39556	42.794	48.020
#1	25.99	.07406	1.7608	-.00108	-.00189
#2	25.99	.07587	1.7707	-.00058	-.00093
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.1980**	**.05487**	**.02531**	**1.024**	**2.0079**
Stddev	.0597	.00067	.00013	.001	.0042
%RSD	.82944	1.2271	.53181	.1066	.20689
#1	7.2403	.05439	.02521	1.023	2.0050
#2	7.1558	.05535	.02540	1.024	2.0108
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198812-A-29-A Acquired: 6/14/2022 16:23:02 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00020**	**.04433**	**.04419**	**1.006**
Stddev	.00097	.00000	.00050	.000
%RSD	496.12	.00322	1.1402	.0076
#1	-.00049	.04433	.04455	1.005
#2	.00088	.04433	.04383	1.006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3699.5**	**3622.7**	**74088.**	**5596.9**
Stddev	3.1	2.3	332.	5.1
%RSD	.08319	.06360	.44746	.09113
#1	3697.4	3621.0	74322.	5593.3
#2	3701.7	3624.3	73853.	5600.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.501%	103.60%	102.30%	106.94%
Range				

Sample Name: 480-198812-A-32-A Acquired: 6/14/2022 16:26:49 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**17.184**	**.01610**	**.01513**	**1.4768**
Stddev	.00024	.057	.00008	.00020	.0103
%RSD	109.50	.33159	.51513	1.3334	.69889
#1	-.00039	17.224	.01604	.01498	1.4841
#2	-.00005	17.144	.01616	.01527	1.4695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00084**	**18.624**	**.00360**	**.0236**	**.00651**
Stddev	.00001	.099	.00013	.0410	.00014
%RSD	1.7350	.53004	3.7141	174.1	2.1166
#1	.00083	18.694	.00369	-.0054	.00660
#2	.00085	18.554	.00350	.0526	.00641
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.3359**	**.08287**	**14.946**	**1.5495**	**.00754**
Stddev	.0055	.00064	.074	.0149	.00223
%RSD	.41413	.77702	.49291	.96351	29.562
#1	1.3320	.08333	14.998	1.5601	.00597
#2	1.3398	.08242	14.894	1.5390	.00912
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198812-A-32-A Acquired: 6/14/2022 16:26:49 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.3505**	**.16657**	**.00512**	**2.7811**	**.03364**
Stddev	.0026	.00015	.00013	.0172	.00043
%RSD	.11168	.09085	2.5335	.61963	1.2830
#1	2.3524	.16668	.00503	2.7933	.03333
#2	2.3487	.16646	.00522	2.7689	.03394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.95**	**3.1937**	**5.8372**	**.00399**	**.00206**
Stddev	.00	.0006	.0038	.00132	.00135
%RSD	.0059	.01775	.06460	32.957	65.824
#1	25.95	3.1941	5.8345	.00306	.00302
#2	25.95	3.1933	5.8399	.00492	.00110
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.2223**	**.06169**	**.10052**	**1.015**	**1.2850**
Stddev	.0325	.00100	.00077	.003	.0013
%RSD	.52182	1.6134	.76465	.2690	.10156
#1	6.2452	.06099	.10106	1.017	1.2840
#2	6.1993	.06240	.09997	1.013	1.2859
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198812-A-32-A Acquired: 6/14/2022 16:26:49 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00051**	**.09649**	**.61066**	**1.004**
Stddev	.00070	.00009	.00435	.001
%RSD	137.76	.08911	.71188	.1369
#1	.00100	.09655	.60759	1.003
#2	.00001	.09642	.61374	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3791.5**	**3608.2**	**74220.**	**5542.1**
Stddev	3.1	3.1	17.	28.3
%RSD	.08185	.08626	.02354	.51134
#1	3789.3	3606.0	74232.	5522.1
#2	3793.7	3610.4	74208.	5562.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.875%	103.19%	102.49%	105.90%
Range				

Sample Name: 480-198812-A-33-A Acquired: 6/14/2022 16:30:39 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**56.510**	**.01491**	**.00748**	**.13167**
Stddev	.00008	.547	.00157	.00009	.00071
%RSD	18.585	.96846	10.500	1.2645	.53568
#1	-.00049	56.897	.01380	.00754	.13216
#2	-.00038	56.123	.01601	.00741	.13117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00190**	**12.249**	**.00030**	**-.0429**	**.00254**
Stddev	.00002	.045	.00013	.0090	.00007
%RSD	.97087	.36652	44.554	20.99	2.6590
#1	.00189	12.280	.00039	-.0366	.00258
#2	.00191	12.217	.00020	-.0493	.00249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06670**	**.01020**	**8.1314**	**1.0795**	**.01988**
Stddev	.00058	.00004	.0283	.0173	.00017
%RSD	.87589	.37274	.34803	1.6035	.84963
#1	.06711	.01022	8.1514	1.0917	.02000
#2	.06628	.01017	8.1114	1.0672	.01976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198812-A-33-A Acquired: 6/14/2022 16:30:39 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0210**	**.10171**	**.00222**	**1.5150**	**.01048**
Stddev	.0206	.00070	.00005	.0010	.00008
%RSD	1.0182	.68413	2.4493	.06465	.77462
#1	2.0356	.10220	.00226	1.5157	.01054
#2	2.0065	.10122	.00218	1.5143	.01042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.18**	**.19835**	**2.4562**	**.00166**	**.00664**
Stddev	.00	.00064	.0051	.00151	.00270
%RSD	.0072	.32442	.20925	90.772	40.625
#1	26.17	.19789	2.4526	.00060	.00854
#2	26.18	.19880	2.4598	.00273	.00473
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8771**	**.04759**	**.03771**	**1.011**	**1.3617**
Stddev	.0605	.00051	.00003	.003	.0014
%RSD	1.2409	1.0654	.07944	.2456	.10228
#1	4.9199	.04723	.03769	1.009	1.3627
#2	4.8343	.04795	.03773	1.013	1.3607
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198812-A-33-A Acquired: 6/14/2022 16:30:39 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00039**	**.03851**	**.11815**	**1.002**
Stddev	.00065	.00016	.00217	.001
%RSD	166.79	.42325	1.8406	.0817
#1	.00085	.03863	.11969	1.001
#2	-.00007	.03840	.11661	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3766.3**	**3614.9**	**73871.**	**5557.2**
Stddev	2.7	.6	477.	17.2
%RSD	.07221	.01668	.64620	.30976
#1	3764.4	3614.5	73534.	5545.1
#2	3768.2	3615.3	74209.	5569.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.224%	103.38%	102.00%	106.18%
Range				

Sample Name: 480-198812-A-34-A Acquired: 6/14/2022 16:34:25 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**58.061**	**.01570**	**.00401**	**.05273**
Stddev	.00047	.047	.00090	.00056	.00011
%RSD	136.77	.08086	5.7430	13.976	.20195
#1	-.00067	58.094	.01506	.00362	.05281
#2	-.00001	58.027	.01633	.00441	.05266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00172**	**8.5844**	**.00007**	**.0745**	**.00578**
Stddev	.00006	.0040	.00002	.0375	.00001
%RSD	3.6819	.04622	31.315	50.31	.25676
#1	.00168	8.5872	.00006	.0480	.00579
#2	.00177	8.5816	.00009	.1010	.00577
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05168**	**.00728**	**23.375**	**1.9316**	**.03465**
Stddev	.00045	.00056	.004	.0025	.00064
%RSD	.87734	7.6957	.01568	.12784	1.8522
#1	.05136	.00768	23.372	1.9298	.03511
#2	.05200	.00688	23.377	1.9333	.03420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198812-A-34-A Acquired: 6/14/2022 16:34:25 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.1880**	**.23718**	**.00154**	**1.0674**	**.02543**
Stddev	.0125	.00028	.00030	.0049	.00019
%RSD	.20189	.11834	19.654	.45939	.74673
#1	6.1969	.23738	.00176	1.0709	.02530
#2	6.1792	.23699	.00133	1.0640	.02557
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.95**	**.04001**	**1.5833**	**.00171**	**.00078**
Stddev	.00	.00014	.0036	.00078	.00610
%RSD	.0033	.33853	.22967	45.818	778.98
#1	25.95	.04010	1.5859	.00226	.00510
#2	25.95	.03991	1.5807	.00115	-.00353
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.6383**	**.04671**	**.02430**	**1.019**	**1.6359**
Stddev	.0400	.00014	.00002	.001	.0040
%RSD	.70939	.29648	.08279	.0984	.24141
#1	5.6666	.04681	.02429	1.018	1.6387
#2	5.6100	.04661	.02432	1.020	1.6331
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198812-A-34-A Acquired: 6/14/2022 16:34:25 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00027**	**.05679**	**.04372**	**1.002**
Stddev	.00057	.00009	.00021	.001
%RSD	211.49	.16259	.48149	.0509
#1	.00067	.05673	.04358	1.002
#2	-.00013	.05686	.04387	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3747.5**	**3629.1**	**74242.**	**5566.2**
Stddev	9.5	5.8	61.	7.2
%RSD	.25289	.15925	.08154	.13003
#1	3740.8	3625.1	74285.	5571.3
#2	3754.2	3633.2	74200.	5561.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.740%	103.79%	102.52%	106.35%
Range				

Sample Name: 480-198819-G-1-A Acquired: 6/14/2022 16:38:12 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**38.971**	**.01432**	**.00891**	**.69630**
Stddev	.00094	.100	.00276	.00001	.00015
%RSD	319.52	.25714	19.282	.14025	.02192
#1	-.00096	39.042	.01237	.00890	.69640
#2	.00037	38.900	.01627	.00892	.69619
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00154**	**11.721**	**.00144**	**.0380**	**.00557**
Stddev	.00009	.005	.00006	.0753	.00008
%RSD	5.9891	.04362	4.2640	198.4	1.5182
#1	.00147	11.725	.00140	-.0153	.00563
#2	.00160	11.717	.00149	.0912	.00551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.27082**	**.02202**	**18.911**	**2.5961**	**.03370**
Stddev	.00048	.00083	.023	.0199	.00057
%RSD	.17667	3.7663	.12174	.76684	1.6783
#1	.27116	.02261	18.894	2.5821	.03330
#2	.27048	.02143	18.927	2.6102	.03410
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198819-G-1-A Acquired: 6/14/2022 16:38:12 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.3998**	**.26173**	**.00202**	**.86833**	**.02780**
Stddev	.0106	.00089	.00027	.00211	.00016
%RSD	.19695	.33901	13.537	.24245	.58202
#1	5.4073	.26236	.00221	.86684	.02791
#2	5.3923	.26110	.00182	.86982	.02768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.10**	**2.6335**	**2.7228**	**.00163**	**.00084**
Stddev	.00	.0007	.0065	.00069	.00221
%RSD	.0044	.02694	.23867	42.539	262.72
#1	26.10	2.6340	2.7274	.00114	.00241
#2	26.10	2.6330	2.7182	.00212	-.00072
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2882**	**.05356**	**.03485**	**1.019**	**1.7700**
Stddev	.0745	.00030	.00013	.002	.0069
%RSD	1.4085	.55358	.38684	.1432	.39213
#1	5.3408	.05377	.03475	1.018	1.7749
#2	5.2355	.05335	.03494	1.020	1.7651
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198819-G-1-A Acquired: 6/14/2022 16:38:12 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00163**	**.04416**	**.46825**	**1.003**
Stddev	.00114	.00020	.00241	.000
%RSD	69.826	.44932	.51525	.0387
#1	-.00082	.04430	.46996	1.003
#2	-.00243	.04402	.46655	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3763.0**	**3661.7**	**75422.**	**5569.1**
Stddev	2.4	5.4	109.	.7
%RSD	.06435	.14853	.14418	.01332
#1	3761.3	3657.9	75345.	5568.6
#2	3764.7	3665.6	75499.	5569.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.139%	104.72%	104.15%	106.41%
Range				

Sample Name: CCV-7032336 Acquired: 6/14/2022 16:42:04 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0015**	**50.142**	**.99227**	**1.0233**	**.99618**
Stddev	.0029	.130	.00020	.0018	.00269
%RSD	.28591	.25912	.02001	.17480	.26987
#1	1.0035	50.050	.99213	1.0245	.99428
#2	.99943	50.234	.99241	1.0220	.99808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0134**	**50.066**	**1.0046**	**.9473**	**.99257**
Stddev	.0031	.134	.0013	.0181	.00095
%RSD	.30416	.26859	.12829	1.911	.09612
#1	1.0113	49.971	1.0055	.9601	.99324
#2	1.0156	50.161	1.0037	.9345	.99189
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0207**	**1.0078**	**50.800**	**49.961**	**.98337**
Stddev	.0014	.0027	.036	.166	.00535
%RSD	.13686	.27051	.07053	.33313	.54417
#1	1.0217	1.0097	50.825	49.844	.97959
#2	1.0197	1.0059	50.774	50.079	.98716
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 16:42:04 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.928**	**1.0116**	**1.0073**	**49.827**	**.99828**
Stddev	.097	.0014	.0050	.116	.00112
%RSD	.19450	.13737	.50092	.23306	.11254
#1	49.997	1.0126	1.0109	49.745	.99749
#2	49.860	1.0106	1.0038	49.909	.99907
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.47**	**1.0002**	**24.959**	**.99621**	**.99570**
Stddev	.04	.0001	.032	.00010	.00146
%RSD	.1046	.00537	.12797	.00962	.14674
#1	37.50	1.0003	24.981	.99628	.99674
#2	37.45	1.0002	24.936	.99614	.99467
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9507**	**.99260**	**.99749**	**1.506**	**1.0097**
Stddev	.0289	.00034	.00198	.013	.0020
%RSD	.29079	.03390	.19887	.8317	.20254
#1	9.9302	.99284	.99609	1.497	1.0111
#2	9.9712	.99236	.99890	1.515	1.0082
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 16:42:04 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0099**	**1.0095**	**1.0161**	**1.503**
Stddev	.0018	.0010	.0006	.001
%RSD	.17642	.09953	.05441	.0852
#1	1.0112	1.0102	1.0165	1.503
#2	1.0087	1.0088	1.0157	1.504
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3400.3**	**3386.3**	**68660.**	**5198.7**
Stddev	.8	4.6	171.	14.2
%RSD	.02496	.13475	.24912	.27231
#1	3399.7	3383.1	68539.	5208.7
#2	3400.9	3389.5	68781.	5188.7

Sample Name: CCB-7026764 Acquired: 6/14/2022 16:45:43 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.00520**	**.00177**	**-.00008**	**.00004**
Stddev	.00004	.00043	.00027	.00008	.00001
%RSD	14.150	8.1735	15.378	99.097	18.894
#1	-.00025	.00490	.00196	-.00014	.00004
#2	-.00031	.00550	.00158	-.00002	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**-.00276**	**.00006**	**-.1528**	**.00004**
Stddev	.00003	.00036	.00004	.0809	.00003
%RSD	5118.9	12.864	74.819	52.93	74.671
#1	-.00002	-.00302	.00003	-.0956	.00002
#2	.00002	-.00251	.00009	-.2100	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00070**	**.00034**	**-.00077**	**.00489**	**-.00064**
Stddev	.00012	.00021	.00021	.04401	.00168
%RSD	16.709	62.699	27.846	900.76	259.95
#1	-.00078	.00019	-.00092	-.02623	.00054
#2	-.00061	.00048	-.00062	.03600	-.00183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 16:45:43 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.00001**	**.00113**	**.00542**	**.00017**
Stddev	.00280	.00000	.00028	.00525	.00007
%RSD	511.19	5.0738	24.603	96.846	44.027
#1	.00143	.00001	.00093	.00914	.00022
#2	-.00253	.00001	.00133	.00171	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00026**	**-.00597**	**.00056**	**.00170**
Stddev	.00	.00004	.00310	.00167	.00310
%RSD	.0017	17.082	51.917	298.75	182.83
#1	25.00	.00023	-.00378	-.00062	.00389
#2	25.00	.00029	-.00816	.00174	-.00050
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02957**	**.00005**	**.00003**	**1.007**	**-.00003**
Stddev	.02251	.00058	.00004	.000	.00001
%RSD	76.142	1107.5	106.82	.0332	23.224
#1	-.04549	-.00036	.00001	1.007	-.00003
#2	-.01365	.00047	.00006	1.006	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 16:45:43 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00269**	**-.00018**	**-.00158**	**.9997**
Stddev	.00018	.00008	.00035	.0000
%RSD	6.8602	43.670	22.018	.0040
#1	.00282	-.00024	-.00134	.9997
#2	.00256	-.00012	-.00183	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3944.1**	**3554.6**	**73349.**	**5360.7**
Stddev	6.3	4.3	160.	46.9
%RSD	.16087	.11982	.21874	.87466
#1	3948.6	3557.6	73463.	5327.5
#2	3939.6	3551.6	73236.	5393.8

Sample Name: CCVL-7028546 Acquired: 6/14/2022 16:49:38 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00609**	**.22252**	**.01456**	**.01921**	**.00211**
Stddev	.00029	.00814	.00065	.00009	.00001
%RSD	4.8171	3.6600	4.4985	.45673	.63904
#1	.00588	.22827	.01409	.01927	.00212
#2	.00629	.21676	.01502	.01914	.00210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00197**	**.49782**	**.00203**	**-.0430**	**.00390**
Stddev	.00002	.00284	.00011	.0020	.00012
%RSD	1.0876	.57033	5.4911	4.634	3.0654
#1	.00195	.49582	.00195	-.0416	.00381
#2	.00198	.49983	.00211	-.0444	.00398
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00375**	**.01086**	**.05135**	**.48236**	**.02904**
Stddev	.00058	.00038	.00046	.01373	.00048
%RSD	15.577	3.5429	.88685	2.8456	1.6416
#1	.00334	.01058	.05103	.47265	.02870
#2	.00416	.01113	.05167	.49206	.02938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/14/2022 16:49:38 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19359**	**.00347**	**.00899**	**.96446**	**.00962**
Stddev	.00172	.00001	.00010	.00876	.00020
%RSD	.88931	.33872	1.0773	.90864	2.0273
#1	.19481	.00347	.00906	.95826	.00976
#2	.19237	.00346	.00892	.97066	.00949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01094**	**.18630**	**.01960**	**.02383**
Stddev	.00	.00009	.00036	.00200	.00089
%RSD	.0024	.86560	.19537	10.200	3.7136
#1	25.00	.01088	.18604	.02101	.02446
#2	25.00	.01101	.18656	.01818	.02321
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45300**	**.00947**	**.00518**	F **1.002**	**.00468**
Stddev	.00722	.00051	.00006	.001	.00019
%RSD	1.5936	5.3595	1.2490	.1153	4.0632
#1	.44790	.00983	.00523	1.001	.00455
#2	.45811	.00911	.00514	1.003	.00482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/14/2022 16:49:38 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02130**	**.00445**	**.00881**	F **.9999**
Stddev	.00125	.00014	.00005	.0005
%RSD	5.8481	3.0709	.59916	.0504
#1	.02041	.00436	.00877	1.000
#2	.02218	.00455	.00885	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3946.9**	**3573.1**	**73604.**	**5394.2**
Stddev	6.7	1.1	52.	36.1
%RSD	.16890	.02990	.07014	.66967
#1	3951.6	3573.8	73568.	5368.7
#2	3942.2	3572.3	73641.	5419.7

Sample Name: LCS 480-629606/2-A Acquired: 6/14/2022 16:53:30 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04712**	**9.7979**	**.18986**	**.19357**	**.20528**
Stddev	.00056	.0150	.00396	.00026	.00005
%RSD	1.1930	.15338	2.0872	.13197	.02322
#1	.04672	9.7873	.19266	.19339	.20532
#2	.04752	9.8085	.18706	.19375	.20525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19688**	**9.5296**	**.18737**	**-.0728**	**.18786**
Stddev	.00015	.0014	.00007	.1538	.00017
%RSD	.07667	.01481	.03516	211.3	.08814
#1	.19699	9.5306	.18742	-.1815	.18798
#2	.19678	9.5286	.18733	.0360	.18775
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19318**	**.19633**	**9.8482**	**9.5546**	**.18656**
Stddev	.00095	.00046	.0031	.0452	.00136
%RSD	.48961	.23677	.03105	.47351	.72685
#1	.19385	.19666	9.8503	9.5226	.18752
#2	.19252	.19600	9.8460	9.5866	.18560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629606/2-A Acquired: 6/14/2022 16:53:30 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7863**	**.19643**	**.19385**	**9.4331**	**.18456**
Stddev	.0019	.00001	.00066	.0014	.00020
%RSD	.01928	.00343	.33888	.01501	.10747
#1	9.7850	.19643	.19432	9.4321	.18470
#2	9.7876	.19642	.19339	9.4341	.18442
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.18911**	**9.3069**	**.19492**	**.18973**
Stddev	.00	.00007	.0183	.00028	.00337
%RSD	.0078	.03657	.19624	.14312	1.7767
#1	25.00	.18906	9.3198	.19473	.19211
#2	25.00	.18916	9.2940	.19512	.18734
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2374**	F **.14419**	**.19769**	**1.009**	**.19368**
Stddev	.0055	.00008	.00026	.005	.00000
%RSD	.05967	.05564	.13079	.4597	.00121
#1	9.2335	.14425	.19788	1.005	.19368
#2	9.2413	.14413	.19751	1.012	.19369
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: LCS 480-629606/2-A Acquired: 6/14/2022 16:53:30 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19284**	**.19063**	**.18927**	**1.000**
Stddev	.00015	.00008	.00019	.000
%RSD	.07623	.04172	.10283	.0006
#1	.19274	.19068	.18941	1.000
#2	.19295	.19057	.18913	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3745.1**	**3524.0**	**72202.**	**5473.8**
Stddev	3.6	.9	93.	14.0
%RSD	.09515	.02671	.12917	.25533
#1	3742.6	3524.6	72268.	5483.7
#2	3747.7	3523.3	72136.	5463.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.678%	100.78%	99.699%	104.59%
Range				

Sample Name: 480-198813-D-9-A Acquired: 6/14/2022 16:57:11 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.26820**	**.00410**	**.01601**	**.32119**
Stddev	.00029	.00002	.00063	.00045	.00178
%RSD	57.322	.00875	15.370	2.8125	.55439
#1	-.00071	.26822	.00455	.01570	.32245
#2	-.00030	.26818	.00365	.01633	.31993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**52.219**	**.00024**	**-.0496**	**.00038**
Stddev	.00004	.017	.00004	.0261	.00025
%RSD	162.85	.03237	16.868	52.66	65.084
#1	.00005	52.207	.00021	-.0311	.00056
#2	-.00000	52.231	.00027	-.0680	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00060**	**.23892**	**1.1469**	**.01517**
Stddev	.00033	.00028	.00119	.0312	.00034
%RSD	166.53	46.174	.49823	2.7197	2.2127
#1	-.00003	.00080	.23808	1.1689	.01493
#2	.00043	.00040	.23976	1.1248	.01540
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-9-A Acquired: 6/14/2022 16:57:11 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.791**	**.03603**	**-.00082**	**37.970**	**.00070**
Stddev	.018	.00008	.00001	.031	.00030
%RSD	.14858	.22196	1.3576	.08152	42.784
#1	11.803	.03609	-.00083	37.949	.00049
#2	11.778	.03598	-.00081	37.992	.00091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00163**	**3.8640**	**.00019**	**.00111**
Stddev	.00	.00063	.0058	.00266	.00373
%RSD	.0015	38.808	.14909	1390.0	336.55
#1	25.01	.00207	3.8681	-.00169	.00375
#2	25.01	.00118	3.8600	.00207	-.00153
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.0143**	**.00288**	**.18492**	**1.011**	**.00222**
Stddev	.0105	.00048	.00018	.003	.00013
%RSD	.26126	16.499	.09634	.2512	5.7991
#1	4.0068	.00254	.18505	1.012	.00213
#2	4.0217	.00322	.18479	1.009	.00231
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-9-A Acquired: 6/14/2022 16:57:11 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00328**	**.00034**	**.01306**	**1.000**
Stddev	.00064	.00012	.00025	.001
%RSD	19.519	33.808	1.8949	.0655
#1	.00283	.00026	.01288	1.001
#2	.00374	.00042	.01323	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3623.1**	**3449.7**	**71249.**	**5391.4**
Stddev	7.3	6.5	39.	4.5
%RSD	.20263	.18877	.05530	.08359
#1	3617.9	3445.1	71221.	5394.6
#2	3628.3	3454.3	71277.	5388.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.529%	98.657%	98.382%	103.01%
Range				

Sample Name: 480-198813-R-10-A Acquired: 6/14/2022 17:01:08 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**3.1491**	**.00295**	**.16336**	**.24959**
Stddev	.00005	.0134	.00075	.00065	.00045
%RSD	97.600	.42560	25.534	.39538	.18188
#1	-.00009	3.1586	.00348	.16382	.24927
#2	-.00002	3.1397	.00241	.16291	.24991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**97.805**	**.00025**	**-.1375**	**.00258**
Stddev	.00004	.021	.00005	.0820	.00028
%RSD	55.660	.02128	19.738	59.62	10.862
#1	.00011	97.820	.00022	-.1955	.00238
#2	.00005	97.790	.00029	-.0795	.00277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00347**	**.00219**	**4.8964**	**2.6901**	**.01049**
Stddev	.00034	.00088	.0040	.0235	.00081
%RSD	9.7593	40.112	.08279	.87456	7.7199
#1	.00370	.00281	4.8935	2.6735	.00992
#2	.00323	.00157	4.8992	2.7068	.01106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-R-10-A Acquired: 6/14/2022 17:01:08 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.410**	**4.8609**	**-.00153**	**31.719**	**.00933**
Stddev	.042	.0017	.00001	.020	.00001
%RSD	.21835	.03496	.62350	.06183	.08199
#1	19.380	4.8597	-.00153	31.733	.00932
#2	19.440	4.8621	-.00152	31.705	.00933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00554**	**2.4094**	**-.00229**	**-.00307**
Stddev	.00	.00049	.0038	.00243	.00014
%RSD	.0088	8.9198	.15827	106.51	4.5422
#1	25.03	.00519	2.4067	-.00056	-.00316
#2	25.03	.00589	2.4121	-.00401	-.00297
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.4757**	**.00277**	**.24890**	**1.004**	**.02495**
Stddev	.0692	.00002	.00002	.007	.00146
%RSD	.81655	.70825	.00702	.7361	5.8522
#1	8.4268	.00276	.24892	1.009	.02598
#2	8.5246	.00278	.24889	.9987	.02391
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-R-10-A Acquired: 6/14/2022 17:01:08 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00201**	**.00441**	**.01923**	**1.000**
Stddev	.00140	.00023	.00000	.000
%RSD	69.611	5.1967	.01456	.0432
#1	.00300	.00425	.01923	.9998
#2	.00102	.00457	.01923	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3538.4**	**3420.0**	**70297.**	**5357.9**
Stddev	.1	1.9	42.	17.6
%RSD	.00239	.05515	.06006	.32797
#1	3538.3	3421.3	70327.	5370.3
#2	3538.4	3418.6	70267.	5345.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.341%	97.807%	97.068%	102.38%
Range				

Sample Name: 480-198815-D-1-A Acquired: 6/14/2022 17:05:01 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.32771**	**.00152**	**.01590**	**.25349**
Stddev	.00020	.00295	.00026	.00004	.00042
%RSD	935.23	.90007	17.011	.28258	.16717
#1	-.00016	.32563	.00134	.01587	.25319
#2	.00012	.32980	.00171	.01593	.25379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**90.627**	**.00018**	**-.0593**	**.00011**
Stddev	.00005	.054	.00011	.0427	.00002
%RSD	728.89	.06004	60.285	71.92	22.119
#1	-.00003	90.589	.00010	-.0292	.00013
#2	.00004	90.666	.00026	-.0895	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.00106**	**.33296**	**1.1976**	**.01538**
Stddev	.00026	.00055	.00184	.0048	.00240
%RSD	49.769	52.088	.55259	.40421	15.610
#1	.00034	.00145	.33166	1.2011	.01368
#2	.00071	.00067	.33426	1.1942	.01708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198815-D-1-A Acquired: 6/14/2022 17:05:01 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.025**	**.47898**	**-.00068**	**10.938**	**.00099**
Stddev	.021	.00151	.00006	.003	.00019
%RSD	.12342	.31594	9.4194	.02676	18.721
#1	17.010	.47791	-.00063	10.941	.00086
#2	17.040	.48005	-.00072	10.936	.00113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00202**	**4.2220**	**-.00276**	**-.00398**
Stddev	.00	.00070	.0063	.00023	.00102
%RSD	.0025	34.899	.14917	8.2442	25.672
#1	25.01	.00252	4.2265	-.00260	-.00471
#2	25.01	.00152	4.2176	-.00292	-.00326
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8623**	**.00257**	**.23520**	**1.003**	**.00286**
Stddev	.0237	.00056	.00027	.001	.00044
%RSD	.48805	21.893	.11350	.1285	15.577
#1	4.8791	.00217	.23538	1.002	.00254
#2	4.8455	.00297	.23501	1.004	.00317
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198815-D-1-A Acquired: 6/14/2022 17:05:01 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00245**	**.00046**	**.00867**	**.9998**
Stddev	.00046	.00014	.00057	.0004
%RSD	18.816	31.438	6.5865	.0438
#1	.00212	.00036	.00826	1.000
#2	.00277	.00056	.00907	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3611.6**	**3437.5**	**70886.**	**5417.4**
Stddev	.3	5.9	43.	5.9
%RSD	.00965	.17043	.06072	.10896
#1	3611.8	3441.7	70917.	5421.6
#2	3611.3	3433.4	70856.	5413.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.231%	98.310%	97.882%	103.51%
Range				

Sample Name: 480-198815-D-2-A Acquired: 6/14/2022 17:08:50 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**2.9169**	**.00411**	**.05602**	**.08826**
Stddev	.00040	.0441	.00072	.00024	.00019
%RSD	152.76	1.5125	17.623	.41952	.21276
#1	.00002	2.9481	.00463	.05585	.08840
#2	-.00055	2.8857	.00360	.05619	.08813
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**52.875**	**.00008**	**-.1044**	**.00149**
Stddev	.00005	.123	.00007	.0743	.00007
%RSD	37.815	.23305	77.798	71.13	4.6690
#1	.00018	52.962	.00004	-.0519	.00154
#2	.00010	52.788	.00013	-.1569	.00144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00390**	**.00329**	**3.7373**	**2.3252**	**.01206**
Stddev	.00003	.00052	.0065	.0153	.00010
%RSD	.82668	15.850	.17326	.65590	.86109
#1	.00388	.00366	3.7419	2.3145	.01214
#2	.00392	.00292	3.7328	2.3360	.01199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198815-D-2-A Acquired: 6/14/2022 17:08:50 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5128**	**.05639**	**.00029**	**44.896**	**.00386**
Stddev	.0325	.00009	.00012	.056	.00034
%RSD	.34165	.16819	42.623	.12410	8.7723
#1	9.5357	.05646	.00020	44.936	.00410
#2	9.4898	.05633	.00037	44.857	.00362
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00395**	**21.507**	**-.00229**	**-.00217**
Stddev	.00	.00022	.007	.00028	.00015
%RSD	.0023	5.4568	.03079	12.327	7.0347
#1	25.03	.00379	21.511	-.00209	-.00206
#2	25.03	.00410	21.502	-.00249	-.00228
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.9761**	**.00204**	**.15919**	**.9987**	**.02606**
Stddev	.0126	.00098	.00034	.0012	.00185
%RSD	.18028	48.259	.21283	.1175	7.0859
#1	6.9850	.00273	.15943	.9978	.02737
#2	6.9672	.00134	.15896	.9995	.02476
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198815-D-2-A Acquired: 6/14/2022 17:08:50 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00240**	**.00449**	**.00995**	**1.001**
Stddev	.00075	.00014	.00043	.000
%RSD	31.369	3.1516	4.3389	.0093
#1	.00293	.00439	.01025	1.001
#2	.00186	.00459	.00964	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3597.9**	**3439.3**	**70745.**	**5402.8**
Stddev	.3	.3	170.	1.1
%RSD	.00707	.01008	.23959	.02011
#1	3597.7	3439.0	70626.	5402.0
#2	3598.1	3439.5	70865.	5403.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.877%	98.360%	97.688%	103.23%
Range				

Sample Name: 480-198831-A-2-A Acquired: 6/14/2022 17:12:39 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.17625**	**.00298**	**.19046**	**.35210**
Stddev	.00036	.01485	.00087	.00129	.00042
%RSD	124.54	8.4258	29.334	.67748	.11954
#1	-.00003	.16575	.00236	.19137	.35181
#2	-.00055	.18675	.00360	.18955	.35240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**335.42**	**-.00005**	**-.0246**	**.00101**
Stddev	.00003	.38	.00006	.0055	.00017
%RSD	195.25	.11265	123.99	22.44	16.512
#1	.00003	335.69	-.00009	-.0284	.00089
#2	-.00001	335.15	-.00001	-.0207	.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00515**	**.00305**	**61.660**	**15.326**	**.05037**
Stddev	.00031	.00017	.099	.056	.00027
%RSD	6.0256	5.5144	.16051	.36675	.53872
#1	.00537	.00317	61.730	15.286	.05056
#2	.00493	.00293	61.590	15.366	.05018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198831-A-2-A Acquired: 6/14/2022 17:12:39 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.998**	**2.6743**	**-.00218**	**356.74**	**.00632**
Stddev	.026	.0017	.00005	.26	.00012
%RSD	.07447	.06296	2.3267	.07239	1.8912
#1	35.016	2.6755	-.00214	356.93	.00640
#2	34.980	2.6731	-.00221	356.56	.00623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.61**	**.00872**	**2.9455**	**.00510**	**-.00482**
Stddev	.00	.00045	.0157	.00165	.00117
%RSD	.0117	5.1172	.53423	32.328	24.226
#1	25.61	.00840	2.9566	.00393	-.00564
#2	25.61	.00904	2.9344	.00627	-.00399
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.682**	**.00249**	**5.3408**	**1.029**	**.00473**
Stddev	.042	.00049	.0066	.003	.00010
%RSD	.32835	19.558	.12365	.3037	2.1412
#1	12.652	.00214	5.3455	1.026	.00480
#2	12.711	.00283	5.3361	1.031	.00466
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198831-A-2-A Acquired: 6/14/2022 17:12:39 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00330**	**.00114**	**.00948**	**1.001**
Stddev	.00087	.00004	.00069	.000
%RSD	26.315	3.3639	7.2401	.0250
#1	.00269	.00111	.00996	1.001
#2	.00392	.00116	.00899	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3104.5**	**3190.4**	**65250.**	**5268.2**
Stddev	2.9	.6	44.	22.0
%RSD	.09334	.01750	.06701	.41718
#1	3106.5	3190.8	65219.	5283.7
#2	3102.4	3190.0	65281.	5252.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.139%	91.241%	90.100%	100.66%
Range				

Sample Name: MB 480-629663/1-A Acquired: 6/14/2022 17:16:48 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00536**	**.00135**	**.00012**	**.00000**
Stddev	.00012	.02945	.00065	.00025	.00002
%RSD	185.14	548.94	48.278	203.29	395.72
#1	.00015	-.01546	.00181	.00030	.00002
#2	-.00002	.02618	.00089	-.00005	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.01105**	**-.00005**	**-.0515**	**.00014**
Stddev	.00004	.00062	.00011	.0008	.00011
%RSD	92.215	5.6034	233.68	1.518	81.660
#1	.00002	.01061	-.00012	-.0509	.00022
#2	.00007	.01149	.00003	-.0520	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00007**	**.00876**	**.01413**	**.00174**
Stddev	.00002	.00023	.00208	.03358	.00054
%RSD	195.66	343.09	23.752	237.63	30.990
#1	-.00002	.00023	.00728	.03788	.00136
#2	.00000	-.00010	.01023	-.00961	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629663/1-A Acquired: 6/14/2022 17:16:48 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00201**	**-.00008**	**-.00161**	**.06215**	**.00017**
Stddev	.00207	.00003	.00013	.00772	.00004
%RSD	103.00	40.616	7.8716	12.424	24.439
#1	.00055	-.00010	-.00170	.05669	.00014
#2	.00347	-.00006	-.00152	.06760	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00106**	**-.00348**	**.00137**	**-.00216**
Stddev	.00	.00032	.00172	.00128	.00068
%RSD	.0027	30.364	49.338	93.181	31.364
#1	25.00	.00129	-.00227	.00047	-.00264
#2	25.00	.00083	-.00470	.00228	-.00168
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01217**	**.00045**	**.00010**	**1.001**	**-.00027**
Stddev	.00347	.00003	.00003	.000	.00010
%RSD	28.523	5.7544	29.066	.0200	34.736
#1	-.01463	.00043	.00008	1.001	-.00021
#2	-.00972	.00046	.00012	1.001	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629663/1-A Acquired: 6/14/2022 17:16:48 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00060**	**-.00016**	**-.00071**	**.9998**
Stddev	.00151	.00013	.00010	.0010
%RSD	250.66	79.612	13.585	.0997
#1	-.00047	-.00007	-.00064	.9991
#2	.00167	-.00025	-.00078	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3958.6**	**3568.6**	**73799.**	**5392.9**
Stddev	3.4	.6	118.	13.1
%RSD	.08658	.01793	.15945	.24239
#1	3961.1	3569.1	73882.	5383.7
#2	3956.2	3568.2	73716.	5402.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.19%	102.06%	101.90%	103.04%
Range				

Sample Name: LCS 480-629663/2-A Acquired: 6/14/2022 17:20:41 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04825**	**9.9678**	**.19418**	**.19586**	**.20857**
Stddev	.00011	.0070	.00211	.00033	.00027
%RSD	.22235	.07044	1.0872	.16963	.12786
#1	.04832	9.9727	.19567	.19610	.20876
#2	.04817	9.9628	.19268	.19563	.20838
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20195**	**9.7079**	**.19067**	**-.0278**	**.19022**
Stddev	.00048	.0238	.00009	.0021	.00000
%RSD	.23806	.24504	.04481	7.422	.00041
#1	.20229	9.7247	.19061	-.0264	.19022
#2	.20161	9.6911	.19073	-.0293	.19022
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19825**	**.19970**	**9.9959**	**9.8110**	**.19420**
Stddev	.00095	.00024	.0297	.0067	.00047
%RSD	.48047	.12213	.29685	.06806	.24093
#1	.19758	.19987	10.017	9.8157	.19387
#2	.19893	.19952	9.9750	9.8063	.19453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629663/2-A Acquired: 6/14/2022 17:20:41 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8426**	**.19821**	**.19724**	**9.7076**	**.18738**
Stddev	.0199	.00038	.00038	.0342	.00036
%RSD	.20207	.18936	.19232	.35191	.19453
#1	9.8286	.19848	.19750	9.7317	.18764
#2	9.8567	.19795	.19697	9.6834	.18712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.19087**	**9.5436**	**.19796**	**.18708**
Stddev	.00	.00174	.0033	.00132	.00481
%RSD	.0045	.90994	.03500	.66861	2.5700
#1	25.00	.18964	9.5459	.19702	.19048
#2	25.00	.19210	9.5412	.19890	.18368
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3759**	F **.23506**	**.20081**	**1.007**	**.19760**
Stddev	.0517	.00015	.00030	.001	.00000
%RSD	.55147	.06236	.15032	.0866	.00036
#1	9.4124	.23495	.20102	1.007	.19760
#2	9.3393	.23516	.20060	1.006	.19760
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: LCS 480-629663/2-A Acquired: 6/14/2022 17:20:41 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19703**	**.19278**	**.19092**	**1.001**
Stddev	.00100	.00011	.00180	.001
%RSD	.50898	.05632	.94411	.0654
#1	.19632	.19270	.19220	1.001
#2	.19774	.19285	.18965	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3744.7**	**3514.6**	**72297.**	**5404.9**
Stddev	.4	1.3	67.	2.7
%RSD	.01110	.03813	.09237	.05087
#1	3745.0	3513.7	72250.	5402.9
#2	3744.4	3515.6	72344.	5406.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.667%	100.52%	99.830%	103.27%
Range				

Sample Name: 480-198840-C-1-B Acquired: 6/14/2022 17:24:23 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.00030**	**.00069**	**.03565**	**.03110**
Stddev	.00070	.01086	.00081	.00023	.00000
%RSD	189.31	3576.3	118.21	.65551	.00339
#1	.00012	.00798	.00126	.03549	.03110
#2	-.00086	-.00737	.00011	.03582	.03110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**46.984**	**-.00006**	**-.0692**	**-.00028**
Stddev	.00001	.053	.00025	.0420	.00014
%RSD	8.3837	.11364	430.55	60.68	51.104
#1	.00017	47.021	-.00024	-.0395	-.00038
#2	.00015	46.946	.00012	-.0989	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.00004**	**47.483**	**3.6922**	**.03285**
Stddev	.00037	.00008	.175	.0644	.00150
%RSD	349.81	191.99	.36754	1.7430	4.5715
#1	-.00037	.00002	47.360	3.6467	.03391
#2	.00016	-.00010	47.607	3.7377	.03178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-1-B Acquired: 6/14/2022 17:24:23 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**43.142**	**6.3757**	**-.00142**	**17.014**	**.00150**
Stddev	.009	.0343	.00024	.039	.00027
%RSD	.02144	.53773	17.185	.22684	17.887
#1	43.149	6.3999	-.00159	17.041	.00131
#2	43.136	6.3514	-.00125	16.987	.00169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.07**	**.00451**	**66.977**	**.00284**	**-.00422**
Stddev	.00	.00037	.053	.00010	.00012
%RSD	.0026	8.1628	.07962	3.5421	2.8111
#1	25.07	.00477	67.015	.00277	-.00414
#2	25.07	.00425	66.940	.00291	-.00431
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.8473**	**.00076**	**.22720**	**1.023**	**-.00131**
Stddev	.0058	.00038	.00058	.001	.00026
%RSD	.06598	50.430	.25505	.0771	19.855
#1	8.8431	.00103	.22761	1.023	-.00149
#2	8.8514	.00049	.22679	1.022	-.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-1-B Acquired: 6/14/2022 17:24:23 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00164**	**.00018**	**.00313**	**1.000**
Stddev	.00102	.00040	.00004	.000
%RSD	62.057	224.48	1.2985	.0164
#1	.00092	-.00010	.00311	1.000
#2	.00236	.00046	.00316	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3537.0**	**3387.3**	**69835.**	**5344.8**
Stddev	11.6	9.4	10.	10.6
%RSD	.32751	.27708	.01411	.19857
#1	3528.8	3380.7	69828.	5337.3
#2	3545.2	3394.0	69842.	5352.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.305%	96.874%	96.431%	102.13%
Range				

Sample Name: CCV-7032336 Acquired: 6/14/2022 17:28:19 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0054**	**49.080**	**.99467**	**1.0256**	**.96636**
Stddev	.0004	.132	.00113	.0020	.00217
%RSD	.04354	.26906	.11343	.19587	.22420
#1	1.0051	49.173	.99387	1.0242	.96789
#2	1.0057	48.986	.99546	1.0270	.96483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98804**	**49.150**	**1.0032**	**.9794**	**.99229**
Stddev	.00329	.167	.0001	.0568	.00072
%RSD	.33326	.34040	.00646	5.800	.07283
#1	.99037	49.268	1.0032	1.020	.99178
#2	.98572	49.031	1.0033	.9393	.99280
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0082**	**1.0152**	**50.289**	**49.103**	**.94961**
Stddev	.0019	.0010	.069	.218	.00328
%RSD	.18818	.09751	.13714	.44442	.34553
#1	1.0069	1.0159	50.337	49.257	.95193
#2	1.0095	1.0145	50.240	48.949	.94729
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 17:28:19 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.232**	**1.0227**	**1.0037**	**48.468**	**1.0054**
Stddev	.098	.0012	.0029	.149	.0015
%RSD	.19430	.11492	.29382	.30734	.15245
#1	50.163	1.0219	1.0058	48.573	1.0064
#2	50.301	1.0235	1.0017	48.363	1.0043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.52**	**1.0028**	**25.116**	**.99604**	**1.0096**
Stddev	.01	.0016	.006	.00092	.0039
%RSD	.0273	.16334	.02523	.09217	.38661
#1	37.53	1.0040	25.121	.99669	1.0124
#2	37.51	1.0017	25.112	.99539	1.0068
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8140**	**.99658**	**.99131**	**1.502**	**1.0044**
Stddev	.0128	.00140	.00377	.001	.0004
%RSD	.13044	.14066	.38002	.0602	.04177
#1	9.8050	.99757	.99397	1.501	1.0041
#2	9.8231	.99559	.98864	1.503	1.0047
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 17:28:19 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0160**	**1.0160**	**1.0201**	**1.499**
Stddev	.0004	.0015	.0041	.000
%RSD	.04320	.15252	.39828	.0163
#1	1.0163	1.0149	1.0172	1.498
#2	1.0156	1.0171	1.0230	1.499
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3391.5**	**3387.0**	**68325.**	**5322.8**
Stddev	3.4	3.0	171.	10.1
%RSD	.10059	.08792	.25038	.19067
#1	3393.9	3389.1	68446.	5315.6
#2	3389.1	3384.9	68204.	5330.0

Sample Name: CCB-7026764 Acquired: 6/14/2022 17:31:59 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.02208**	**.00340**	**.00067**	**.00004**
Stddev	.00010	.01555	.00071	.00011	.00002
%RSD	22.512	70.433	21.005	16.378	44.099
#1	-.00038	.01108	.00290	.00060	.00003
#2	-.00052	.03307	.00391	.00075	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00298**	**.00005**	**-.0667**	**.00025**
Stddev	.00002	.00233	.00007	.0578	.00015
%RSD	114.25	77.979	160.70	86.71	59.502
#1	-.00000	-.00463	.00010	-.1076	.00015
#2	-.00003	-.00134	-.00001	-.0258	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**-.00026**	**.00299**	**.02147**	**-.00071**
Stddev	.00009	.00049	.00053	.01242	.00030
%RSD	22.759	185.09	17.673	57.846	41.578
#1	-.00033	-.00061	.00262	.01269	-.00092
#2	-.00046	.00008	.00336	.03026	-.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 17:31:59 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00086**	**.00000**	**.00099**	**.01689**	**.00023**
Stddev	.00214	.00003	.00038	.00863	.00002
%RSD	247.42	1187.0	38.768	51.064	10.807
#1	-.00238	.00002	.00072	.02299	.00025
#2	.00065	-.00002	.00126	.01079	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00087**	**-.00081**	**-.00032**	**.00219**
Stddev	.00	.00016	.00249	.00062	.00241
%RSD	.0024	18.382	305.60	197.63	110.08
#1	25.00	.00076	.00095	.00013	.00049
#2	25.00	.00099	-.00257	-.00076	.00390
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01368**	**-.00024**	**.00006**	**.9991**	**-.00007**
Stddev	.01076	.00060	.00000	.0077	.00013
%RSD	78.691	256.91	1.9403	.7705	180.06
#1	-.02129	-.00066	.00005	.9937	-.00017
#2	-.00607	.00019	.00006	1.005	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 17:31:59 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00314**	**-.00003**	**-.00117**	**1.000**
Stddev	.00047	.00029	.00041	.000
%RSD	15.031	1027.0	35.390	.0199
#1	.00347	-.00024	-.00146	.9999
#2	.00281	.00018	-.00088	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3914.7**	**3538.4**	**72460.**	**5346.5**
Stddev	1.5	1.3	6.	17.6
%RSD	.03858	.03627	.00892	.32968
#1	3915.8	3537.5	72465.	5359.0
#2	3913.6	3539.3	72456.	5334.1

Sample Name: CCVL-7028546 Acquired: 6/14/2022 17:35:54 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00555**	**.21324**	**.01631**	**.01961**	**.00213**
Stddev	.00028	.00872	.00166	.00006	.00003
%RSD	5.1275	4.0914	10.163	.30548	1.1941
#1	.00535	.21941	.01749	.01956	.00211
#2	.00575	.20707	.01514	.01965	.00215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**.50332**	**.00208**	**-.1088**	**.00394**
Stddev	.00007	.00478	.00007	.0548	.00006
%RSD	3.4689	.94969	3.2017	50.32	1.5391
#1	.00204	.50670	.00203	-.0701	.00398
#2	.00214	.49994	.00213	-.1475	.00390
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00315**	**.01038**	**.05100**	**.44985**	**.02729**
Stddev	.00048	.00051	.00313	.00416	.00056
%RSD	15.169	4.9216	6.1300	.92560	2.0423
#1	.00281	.01074	.05321	.44691	.02690
#2	.00349	.01002	.04879	.45279	.02768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/14/2022 17:35:54 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19524**	**.00339**	**.00914**	**.96664**	**.00953**
Stddev	.00282	.00002	.00017	.00812	.00003
%RSD	1.4444	.46630	1.8536	.84008	.29023
#1	.19724	.00341	.00902	.96090	.00955
#2	.19325	.00338	.00926	.97238	.00951
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00985**	**.18644**	**.01851**	**.02268**
Stddev	.00	.00041	.00082	.00041	.00111
%RSD	.0043	4.1651	.43955	2.2355	4.8915
#1	25.00	.01014	.18586	.01881	.02190
#2	25.00	.00956	.18702	.01822	.02347
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44259**	**.00930**	**.00510**	F **1.002**	**.00463**
Stddev	.01119	.00064	.00009	.007	.00007
%RSD	2.5289	6.8605	1.7025	.7268	1.5722
#1	.43467	.00976	.00516	.9965	.00458
#2	.45050	.00885	.00504	1.007	.00468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/14/2022 17:35:54 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02154**	**.00500**	**.00942**	F **1.001**
Stddev	.00131	.00023	.00017	.000
%RSD	6.1030	4.6358	1.7792	.0088
#1	.02247	.00516	.00954	1.001
#2	.02061	.00483	.00930	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3934.9**	**3568.2**	**73540.**	**5346.1**
Stddev	4.1	2.0	426.	3.4
%RSD	.10382	.05727	.57950	.06331
#1	3932.0	3566.7	73842.	5348.5
#2	3937.7	3569.6	73239.	5343.7

Sample Name: 480-198840-C-2-D Acquired: 6/14/2022 17:39:45 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00616**	**.00218**	**.00164**	**.00006**
Stddev	.00021	.00762	.00160	.00016	.00001
%RSD	467.31	123.66	73.070	9.8615	17.550
#1	-.00019	.00077	.00106	.00176	.00006
#2	.00010	.01155	.00331	.00153	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.10286**	**.00008**	**-.0822**	**.00003**
Stddev	.00012	.00183	.00001	.0218	.00005
%RSD	197.63	1.7781	15.368	26.55	207.99
#1	.00014	.10157	.00007	-.0667	-.00001
#2	-.00002	.10416	.00008	-.0976	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.00104**	**.00243**	**-.04990**	**.00078**
Stddev	.00022	.00033	.00009	.00622	.00038
%RSD	44.665	32.231	3.5663	12.472	47.996
#1	.00033	.00080	.00237	-.04550	.00105
#2	.00064	.00128	.00249	-.05430	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-2-D Acquired: 6/14/2022 17:39:45 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00108**	**-.00006**	**-.00108**	**.01407**	**.00024**
Stddev	.00142	.00000	.00021	.00290	.00003
%RSD	132.15	1.5590	19.366	20.585	13.786
#1	-.00007	-.00006	-.00122	.01202	.00022
#2	-.00208	-.00006	-.00093	.01612	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00001**	**-.00334**	**.00040**	**.00156**
Stddev	.00	.00119	.00185	.00040	.00058
%RSD	.0017	20339.	55.387	99.724	37.024
#1	25.00	-.00085	-.00464	.00012	.00115
#2	25.00	.00084	-.00203	.00068	.00197
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08341**	**-.00005**	**.00009**	**1.002**	**-.00044**
Stddev	.00327	.00086	.00004	.002	.00026
%RSD	3.9203	1852.1	41.046	.1624	59.579
#1	.08572	-.00065	.00012	1.001	-.00062
#2	.08110	.00056	.00007	1.003	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-2-D Acquired: 6/14/2022 17:39:45 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00158**	**-.00005**	**-.00019**	**.9999**
Stddev	.00176	.00017	.00022	.0005
%RSD	111.21	308.66	114.48	.0485
#1	.00034	-.00017	-.00035	1.000
#2	.00283	.00006	-.00004	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3946.4**	**3569.1**	**73637.**	**5391.0**
Stddev	5.1	6.9	117.	2.8
%RSD	.12843	.19375	.15879	.05258
#1	3942.8	3564.2	73720.	5389.0
#2	3950.0	3574.0	73555.	5393.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.87%	102.07%	101.68%	103.01%
Range				

Sample Name: 480-198840-C-3-B Acquired: 6/14/2022 17:43:39 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.00782**	**.00227**	**.00681**	**.00655**
Stddev	.00026	.01414	.00055	.00006	.00004
%RSD	167.63	180.77	24.071	.93350	.61266
#1	.00034	-.00218	.00188	.00676	.00658
#2	-.00003	.01782	.00265	.00685	.00652
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**3.1907**	**.00004**	**-.0437**	**-.00000**
Stddev	.00001	.0046	.00016	.0390	.00019
%RSD	16.620	.14461	415.28	89.09	30041.
#1	.00006	3.1875	-.00007	-.0162	-.00013
#2	.00008	3.1940	.00015	-.0713	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.00242**	**.03369**	**1.1130**	**.01297**
Stddev	.00004	.00066	.00264	.0392	.00154
%RSD	27.381	27.387	7.8352	3.5245	11.890
#1	-.00016	.00289	.03555	1.0853	.01188
#2	-.00011	.00195	.03182	1.1408	.01406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-3-B Acquired: 6/14/2022 17:43:39 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.0678**	**.00929**	**-.00136**	**14.467**	**.00219**
Stddev	.0036	.00002	.00003	.014	.00004
%RSD	.08835	.17997	2.2480	.09635	1.8685
#1	4.0653	.00928	-.00139	14.458	.00222
#2	4.0703	.00930	-.00134	14.477	.00216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00257**	**6.2369**	**.00007**	**.00089**
Stddev	.00	.00061	.0132	.00098	.00427
%RSD	.0006	23.776	.21210	1476.6	479.81
#1	25.00	.00214	6.2275	.00076	.00391
#2	25.00	.00300	6.2462	-.00063	-.00213
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.968**	**.00050**	**.01359**	**1.000**	**-.00053**
Stddev	.019	.00083	.00008	.004	.00038
%RSD	.17224	166.94	.58294	.3930	70.664
#1	10.981	-.00009	.01353	1.003	-.00027
#2	10.955	.00109	.01364	.9973	-.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-3-B Acquired: 6/14/2022 17:43:39 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00264**	**-.00026**	**.00607**	**.9999**
Stddev	.00046	.00023	.00037	.0002
%RSD	17.463	90.226	6.0216	.0194
#1	.00231	-.00009	.00633	1.000
#2	.00296	-.00042	.00581	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3857.4**	**3551.5**	**73226.**	**5394.1**
Stddev	11.1	3.1	175.	3.2
%RSD	.28720	.08677	.23923	.05906
#1	3849.6	3549.3	73102.	5391.9
#2	3865.3	3553.7	73350.	5396.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.576%	101.57%	101.11%	103.07%
Range				

Sample Name: 480-198840-C-3-Bsd@5 Acquired: 6/14/2022 17:47:29 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**.03268**	**.00181**	**.00137**	**.00166**
Stddev	.00041	.00439	.00057	.00006	.00001
%RSD	96.730	13.436	31.332	4.6796	.55382
#1	.00014	.02958	.00141	.00141	.00165
#2	.00072	.03579	.00221	.00132	.00166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.66131**	**.00004**	**.0065**	**.00014**
Stddev	.00001	.00130	.00009	.0197	.00003
%RSD	20.123	.19586	213.19	301.5	20.794
#1	.00005	.66223	.00011	.0205	.00012
#2	.00006	.66040	-.00002	-.0074	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.00052**	**.00578**	**.20425**	**.00390**
Stddev	.00021	.00023	.00269	.00862	.00051
%RSD	56.127	44.345	46.560	4.2186	13.173
#1	-.00052	.00068	.00387	.21035	.00353
#2	-.00023	.00036	.00768	.19816	.00426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-3-Bsd@5 Acquired: 6/14/2022 17:47:29 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.82611**	**.00181**	**-.00132**	**2.8987**	**.00057**
Stddev	.01312	.00005	.00008	.0089	.00002
%RSD	1.5884	2.7991	6.4254	.30667	3.4160
#1	.81683	.00184	-.00138	2.9050	.00055
#2	.83539	.00177	-.00126	2.8924	.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00051**	**1.2308**	**.00077**	**-.00114**
Stddev	.00	.00025	.0035	.00021	.00152
%RSD	.0011	48.100	.28512	27.199	133.67
#1	25.00	.00069	1.2283	.00091	-.00222
#2	25.00	.00034	1.2333	.00062	-.00006
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.1951**	**.00015**	**.00301**	**1.003**	**-.00020**
Stddev	.0165	.00033	.00001	.000	.00042
%RSD	.75022	218.61	.46987	.0335	207.73
#1	2.2068	-.00008	.00302	1.002	-.00050
#2	2.1835	.00039	.00300	1.003	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-3-Bsd@5 Acquired: 6/14/2022 17:47:29 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00175**	**-.00007**	**.00031**	**.9993**
Stddev	.00019	.00040	.00002	.0006
%RSD	11.096	551.23	5.7497	.0611
#1	.00161	-.00035	.00032	.9997
#2	.00189	.00021	.00030	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3941.8**	**3566.0**	**73624.**	**5414.9**
Stddev	1.9	5.6	23.	22.7
%RSD	.04750	.15722	.03100	.41960
#1	3940.5	3562.0	73640.	5398.8
#2	3943.1	3570.0	73608.	5430.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.75%	101.98%	101.66%	103.46%
Range				

Sample Name: 480-198840-C-3-BPDS Acquired: 6/14/2022 17:51:22 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04940**	**10.178**	**.20673**	**.20722**	**.21727**
Stddev	.00013	.050	.00342	.00001	.00049
%RSD	.25651	.49248	1.6531	.00548	.22358
#1	.04949	10.213	.20915	.20722	.21761
#2	.04931	10.142	.20432	.20723	.21693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21268**	**13.234**	**.20117**	**-.0629**	**.20221**
Stddev	.00079	.026	.00005	.0423	.00007
%RSD	.37080	.19330	.02582	67.32	.03626
#1	.21324	13.252	.20121	-.0928	.20226
#2	.21212	13.216	.20113	-.0329	.20216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20963**	**.21296**	**10.398**	**11.065**	**.20841**
Stddev	.00032	.00003	.035	.019	.00044
%RSD	.15480	.01396	.33769	.16809	.21286
#1	.20986	.21298	10.423	11.052	.20873
#2	.20940	.21294	10.373	11.079	.20810
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-3-BPDS Acquired: 6/14/2022 17:51:22 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.421**	**.22332**	**.20712**	**23.853**	**.20091**
Stddev	.029	.00060	.00062	.060	.00001
%RSD	.20397	.26961	.29874	.25057	.00641
#1	14.442	.22375	.20756	23.895	.20090
#2	14.401	.22290	.20668	23.811	.20092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.20327**	**16.032**	**.20835**	**.19783**
Stddev	.00	.00022	.005	.00433	.00026
%RSD	.0057	.10982	.03352	2.0790	.13001
#1	25.00	.20342	16.035	.21141	.19801
#2	25.00	.20311	16.028	.20528	.19765
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.497**	**.19853**	**.21997**	**1.009**	**.20677**
Stddev	.049	.00130	.00034	.006	.00009
%RSD	.24117	.65283	.15498	.6309	.04162
#1	20.532	.19944	.21973	1.004	.20683
#2	20.462	.19761	.22021	1.013	.20670
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-3-BPDS Acquired: 6/14/2022 17:51:22 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20947**	**.20496**	**.21114**	**1.000**
Stddev	.00187	.00031	.00021	.000
%RSD	.89172	.15254	.10002	.0313
#1	.20815	.20518	.21129	1.000
#2	.21079	.20474	.21100	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3660.5**	**3483.0**	**71396.**	**5403.9**
Stddev	4.2	4.4	208.	1.5
%RSD	.11360	.12738	.29142	.02854
#1	3657.6	3479.9	71248.	5405.0
#2	3663.4	3486.1	71543.	5402.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.493%	99.610%	98.585%	103.25%
Range				

Sample Name: 480-198840-C-3-C MS Acquired: 6/14/2022 17:55:03 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04875**	**9.9003**	**.19486**	**.20292**	**.21281**
Stddev	.00042	.0041	.00092	.00009	.00004
%RSD	.86159	.04160	.46993	.04234	.01836
#1	.04905	9.9032	.19422	.20286	.21284
#2	.04846	9.8974	.19551	.20298	.21278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20181**	**12.776**	**.19061**	**-.0343**	**.19180**
Stddev	.00086	.031	.00019	.0617	.00012
%RSD	.42564	.24483	.09841	180.0	.06457
#1	.20121	12.754	.19047	-.0779	.19189
#2	.20242	12.798	.19074	.0093	.19171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19613**	**.19927**	**9.9281**	**10.835**	**.20483**
Stddev	.00011	.00083	.0208	.046	.00140
%RSD	.05416	.41437	.20976	.42439	.68219
#1	.19606	.19986	9.9134	10.803	.20582
#2	.19621	.19869	9.9428	10.868	.20384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-3-C MS Acquired: 6/14/2022 17:55:03 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.834**	**.20604**	**.19769**	**23.822**	**.19018**
Stddev	.014	.00012	.00006	.075	.00014
%RSD	.10282	.05780	.03226	.31582	.07320
#1	13.844	.20613	.19773	23.769	.19028
#2	13.824	.20596	.19764	23.875	.19008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.19317**	**15.625**	**.19849**	**.19229**
Stddev	.00	.00106	.005	.00014	.00282
%RSD	.0007	.54677	.03015	.07125	1.4683
#1	25.00	.19242	15.622	.19859	.19428
#2	25.00	.19392	15.629	.19839	.19029
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.166**	**.23643**	**.21185**	**1.005**	**.19716**
Stddev	.065	.00089	.00071	.000	.00008
%RSD	.32214	.37476	.33733	.0262	.04143
#1	20.120	.23705	.21135	1.004	.19722
#2	20.212	.23580	.21236	1.005	.19710
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-3-C MS Acquired: 6/14/2022 17:55:03 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19728**	**.19238**	**.19808**	**.9996**
Stddev	.00102	.00014	.00004	.0001
%RSD	.51633	.07414	.01876	.0071
#1	.19656	.19228	.19805	.9995
#2	.19800	.19248	.19810	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3686.4**	**3504.4**	**72009.**	**5434.3**
Stddev	.4	1.1	100.	13.1
%RSD	.01032	.03223	.13918	.24032
#1	3686.1	3503.6	72079.	5443.5
#2	3686.6	3505.2	71938.	5425.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.160%	100.22%	99.432%	103.83%
Range				

Sample Name: 480-198840-C-3-D MSD Acquired: 6/14/2022 17:58:44 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04925**	**9.6182**	**.18692**	**.19643**	**.20691**
Stddev	.00004	.0382	.00157	.00039	.00068
%RSD	.08470	.39763	.84056	.19615	.32860
#1	.04922	9.6453	.18803	.19670	.20739
#2	.04928	9.5912	.18581	.19615	.20643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19453**	**12.351**	**.18423**	**-.0855**	**.18496**
Stddev	.00056	.020	.00018	.0012	.00014
%RSD	.28914	.15898	.09570	1.355	.07749
#1	.19493	12.365	.18435	-.0847	.18507
#2	.19413	12.337	.18410	-.0863	.18486
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18838**	**.19330**	**9.5792**	**10.492**	**.19913**
Stddev	.00006	.00082	.0401	.004	.00086
%RSD	.03095	.42412	.41830	.04268	.43001
#1	.18843	.19388	9.6075	10.495	.19974
#2	.18834	.19272	9.5508	10.489	.19853
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-3-D MSD Acquired: 6/14/2022 17:58:44 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.391**	**.19933**	**.19078**	**22.907**	**.18278**
Stddev	.050	.00081	.00051	.062	.00002
%RSD	.37250	.40495	.26775	.26854	.01245
#1	13.426	.19990	.19114	22.950	.18279
#2	13.355	.19876	.19042	22.863	.18276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.18608**	**15.177**	**.19218**	**.17943**
Stddev	.00	.00144	.019	.00013	.00110
%RSD	.0039	.77324	.12232	.06563	.61264
#1	25.00	.18710	15.190	.19227	.17865
#2	25.00	.18507	15.164	.19209	.18021
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.601**	**.22838**	**.20513**	**1.011**	**.19053**
Stddev	.038	.00021	.00069	.003	.00042
%RSD	.19585	.09296	.33496	.3351	.21822
#1	19.628	.22823	.20562	1.013	.19083
#2	19.574	.22853	.20465	1.008	.19024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-3-D MSD Acquired: 6/14/2022 17:58:44 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.18948**	**.18613**	**.19865**	**.9999**
Stddev	.00016	.00001	.00072	.0003
%RSD	.08387	.00706	.36494	.0313
#1	.18960	.18612	.19916	1.000
#2	.18937	.18614	.19814	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3688.9**	**3502.5**	**71960.**	**5407.8**
Stddev	.8	1.6	250.	17.7
%RSD	.02129	.04512	.34726	.32786
#1	3688.3	3501.4	71783.	5395.3
#2	3689.4	3503.6	72137.	5420.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.225%	100.17%	99.365%	103.33%
Range				

Sample Name: 480-198840-C-9-B Acquired: 6/14/2022 18:02:25 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.06607**	**.00129**	**.01228**	**.07127**
Stddev	.00096	.01853	.00074	.00026	.00002
%RSD	364.55	28.041	57.462	2.1351	.03353
#1	-.00094	.07917	.00182	.01210	.07129
#2	.00042	.05297	.00077	.01247	.07126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**10.867**	**.00006**	**-.1464**	**.00249**
Stddev	.00002	.018	.00011	.0859	.00022
%RSD	42.106	.16503	178.46	58.70	8.9816
#1	.00005	10.880	.00013	-.2072	.00234
#2	.00003	10.855	-.00002	-.0856	.00265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.01583**	**12.677**	**6.7985**	**.01955**
Stddev	.00004	.00044	.040	.0320	.00109
%RSD	21.093	2.7542	.31256	.47131	5.5635
#1	-.00021	.01552	12.705	6.8212	.01878
#2	-.00016	.01614	12.649	6.7759	.02032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-9-B Acquired: 6/14/2022 18:02:25 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9910**	**2.2455**	**-.00062**	**17.346**	**.00097**
Stddev	.0058	.0004	.00010	.053	.00005
%RSD	.05823	.01738	15.507	.30499	5.4366
#1	9.9868	2.2452	-.00069	17.384	.00094
#2	9.9951	2.2457	-.00055	17.309	.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.33**	**.00546**	**.38386**	**-.00027**	**-.00114**
Stddev	.00	.00114	.00377	.00084	.00423
%RSD	.0069	20.951	.98217	316.22	370.18
#1	25.33	.00627	.38653	-.00086	-.00414
#2	25.33	.00465	.38119	.00033	.00185
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.973**	**.00026**	**.06396**	**1.006**	**-.00068**
Stddev	.030	.00043	.00043	.001	.00023
%RSD	.17458	167.22	.66496	.1248	34.499
#1	16.994	-.00005	.06426	1.007	-.00084
#2	16.952	.00056	.06366	1.005	-.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-9-B Acquired: 6/14/2022 18:02:25 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00075**	**-.00043**	**.01390**	**1.000**
Stddev	.00006	.00005	.00078	.000
%RSD	8.2560	10.701	5.5911	.0445
#1	.00080	-.00046	.01335	1.001
#2	.00071	-.00039	.01445	1.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3746.0**	**3515.1**	**72438.**	**5398.1**
Stddev	7.4	7.9	26.	14.7
%RSD	.19874	.22350	.03538	.27156
#1	3751.2	3520.6	72420.	5387.7
#2	3740.7	3509.5	72456.	5408.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.700%	100.53%	100.02%	103.14%
Range				

Sample Name: 480-198843-D-1-B Acquired: 6/14/2022 18:06:13 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.05214**	**.00774**	**.13110**	**.29061**
Stddev	.00000	.00343	.00046	.00114	.00132
%RSD	.26668	6.5787	5.8836	.86626	.45584
#1	-.00019	.04971	.00742	.13029	.28967
#2	-.00019	.05456	.00806	.13190	.29155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**112.90**	**.00023**	**-.0667**	**-.00007**
Stddev	.00001	.55	.00007	.0497	.00027
%RSD	16.852	.49118	29.969	74.54	396.41
#1	.00008	113.29	.00028	-.1019	.00012
#2	.00007	112.51	.00019	-.0316	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.00012**	**.04468**	**22.042**	**.02911**
Stddev	.00006	.00064	.00222	.067	.00122
%RSD	31.405	546.95	4.9755	.30519	4.1798
#1	.00024	.00034	.04625	22.090	.02997
#2	.00016	-.00057	.04311	21.995	.02825
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198843-D-1-B Acquired: 6/14/2022 18:06:13 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.740**	**.00096**	**-.00014**	**20.561**	**.00074**
Stddev	.042	.00002	.00012	.111	.00020
%RSD	.25039	1.8683	86.311	.53930	26.759
#1	16.711	.00097	-.00022	20.640	.00088
#2	16.770	.00095	-.00005	20.483	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00459**	**13.189**	**-.00269**	**-.00187**
Stddev	.00	.00010	.001	.00103	.00023
%RSD	.0056	2.1467	.00466	38.141	12.249
#1	25.03	.00466	13.189	-.00342	-.00204
#2	25.03	.00452	13.190	-.00197	-.00171
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.840**	**-.00022**	**.74879**	**1.003**	**.00170**
Stddev	.154	.00015	.00499	.002	.00074
%RSD	.67392	68.479	.66675	.2235	43.710
#1	22.949	-.00033	.75232	1.005	.00222
#2	22.731	-.00011	.74526	1.002	.00117
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198843-D-1-B Acquired: 6/14/2022 18:06:13 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00262**	**.02044**	**.00041**	**.9999**
Stddev	.00082	.00028	.00089	.0003
%RSD	31.390	1.3834	218.14	.0294
#1	.00320	.02024	-.00022	.9997
#2	.00204	.02064	.00104	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3553.1**	**3404.6**	**70237.**	**5363.6**
Stddev	.6	1.9	268.	13.3
%RSD	.01726	.05518	.38145	.24783
#1	3553.6	3403.2	70427.	5354.2
#2	3552.7	3405.9	70048.	5373.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.722%	97.367%	96.986%	102.48%
Range				

Sample Name: 480-198843-D-2-B Acquired: 6/14/2022 18:10:09 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.06797**	**.00906**	**.12903**	**.28671**
Stddev	.00011	.00423	.00013	.00012	.00053
%RSD	256.11	6.2245	1.4231	.09155	.18318
#1	.00012	.06498	.00896	.12911	.28708
#2	-.00004	.07096	.00915	.12894	.28634
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**111.60**	**.00007**	**-.0652**	**-.00023**
Stddev	.00004	.21	.00003	.0735	.00008
%RSD	52.318	.19048	42.600	112.6	33.659
#1	.00005	111.75	.00005	-.0133	-.00028
#2	.00011	111.45	.00009	-.1172	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00005**	**.02889**	**21.693**	**.03037**
Stddev	.00031	.00007	.00049	.004	.00167
%RSD	693.71	139.13	1.6876	.01699	5.5119
#1	-.00018	-.00011	.02924	21.695	.02919
#2	.00027	-.00000	.02855	21.690	.03156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198843-D-2-B Acquired: 6/14/2022 18:10:09 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.598**	**.00081**	**-.00038**	**20.199**	**.00079**
Stddev	.010	.00001	.00027	.018	.00013
%RSD	.05908	1.3812	70.106	.09106	16.226
#1	16.605	.00082	-.00057	20.212	.00088
#2	16.591	.00081	-.00019	20.186	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00446**	**13.060**	**-.00168**	**-.00624**
Stddev	.00	.00031	.014	.00043	.00191
%RSD	.0058	7.0404	.10590	25.537	30.572
#1	25.03	.00469	13.070	-.00137	-.00759
#2	25.03	.00424	13.050	-.00198	-.00489
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.461**	**-.00076**	**.73770**	**1.001**	**.00135**
Stddev	.071	.00007	.00180	.004	.00010
%RSD	.31573	8.6060	.24358	.4339	7.1578
#1	22.511	-.00072	.73897	1.004	.00142
#2	22.411	-.00081	.73643	.9975	.00128
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198843-D-2-B Acquired: 6/14/2022 18:10:09 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00203**	**.02071**	**-.00005**	**.9998**
Stddev	.00140	.00046	.00026	.0000
%RSD	68.969	2.2124	546.34	.0042
#1	.00302	.02038	-.00024	.9998
#2	.00104	.02103	.00014	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3550.6**	**3408.1**	**70253.**	**5382.7**
Stddev	.5	1.2	79.	3.1
%RSD	.01499	.03415	.11295	.05846
#1	3550.9	3408.9	70309.	5384.9
#2	3550.2	3407.3	70197.	5380.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.655%	97.468%	97.008%	102.85%
Range				

Sample Name: CCV-7032336 Acquired: 6/14/2022 18:14:07 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0057**	**49.823**	**.99681**	**1.0279**	**.98680**
Stddev	.0022	.143	.00158	.0029	.00073
%RSD	.21693	.28649	.15814	.27755	.07386
#1	1.0042	49.722	.99570	1.0259	.98628
#2	1.0073	49.924	.99793	1.0299	.98731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0036**	**49.678**	**1.0066**	**.8939**	**.99491**
Stddev	.0001	.031	.0015	.0145	.00122
%RSD	.00853	.06156	.15300	1.622	.12214
#1	1.0037	49.699	1.0055	.8836	.99405
#2	1.0036	49.656	1.0077	.9041	.99577
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0139**	**1.0113**	**50.536**	**49.609**	**.97091**
Stddev	.0014	.0009	.120	.044	.00059
%RSD	.13385	.08848	.23695	.08964	.06101
#1	1.0129	1.0119	50.621	49.641	.97049
#2	1.0148	1.0107	50.452	49.578	.97133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 18:14:07 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.104**	**1.0155**	**1.0050**	**49.264**	**1.0030**
Stddev	.061	.0003	.0014	.041	.0014
%RSD	.12234	.02556	.14031	.08415	.14202
#1	50.148	1.0157	1.0060	49.293	1.0020
#2	50.061	1.0153	1.0040	49.235	1.0040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.52**	**1.0019**	**25.053**	**1.0019**	**1.0025**
Stddev	.00	.0026	.060	.0009	.0006
%RSD	.0079	.25907	.24055	.08793	.06195
#1	37.52	1.0001	25.011	1.0025	1.0029
#2	37.53	1.0038	25.096	1.0013	1.0021
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9890**	**.99857**	**.99614**	**1.500**	**1.0047**
Stddev	.0731	.00093	.00060	.006	.0006
%RSD	.73175	.09323	.06008	.4338	.06034
#1	9.9374	.99923	.99572	1.495	1.0042
#2	10.041	.99792	.99656	1.504	1.0051
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 18:14:07 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0125**	**1.0109**	**1.0194**	**1.501**
Stddev	.0022	.0005	.0039	.001
%RSD	.22181	.04952	.38268	.0447
#1	1.0109	1.0106	1.0221	1.500
#2	1.0141	1.0113	1.0166	1.501
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3383.4**	**3377.2**	**68389.**	**5250.4**
Stddev	7.4	2.0	88.	.1
%RSD	.21825	.05908	.12927	.00177
#1	3388.6	3378.6	68451.	5250.3
#2	3378.2	3375.8	68326.	5250.4

Sample Name: CCB-7026764 Acquired: 6/14/2022 18:17:47 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**.02044**	**.00091**	**.00087**	**.00002**
Stddev	.00002	.00849	.00078	.00060	.00000
%RSD	2.0248	41.540	85.207	69.220	25.421
#1	-.00076	.02644	.00036	.00129	.00002
#2	-.00078	.01443	.00146	.00044	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00302**	**-.00007**	**-.1207**	**.00015**
Stddev	.00008	.00092	.00003	.0161	.00001
%RSD	239.26	30.609	40.117	13.37	3.9566
#1	.00009	-.00367	-.00010	-.1321	.00014
#2	-.00002	-.00236	-.00005	-.1093	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.00018**	**.00108**	**.00385**	**.00010**
Stddev	.00026	.00003	.00352	.00565	.00073
%RSD	62.696	16.970	324.89	146.72	723.14
#1	-.00059	.00020	-.00141	-.00014	.00061
#2	-.00023	.00015	.00358	.00784	-.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 18:17:47 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00124**	**-.00002**	**.00106**	**.01195**	**.00019**
Stddev	.00152	.00001	.00042	.00294	.00027
%RSD	122.46	38.810	39.249	24.567	147.43
#1	.00232	-.00001	.00077	.00988	-.00001
#2	.00017	-.00002	.00136	.01403	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00017**	**-.00293**	**-.00021**	**.00206**
Stddev	.00	.00002	.00478	.00237	.00426
%RSD	.0023	10.860	163.27	1131.4	206.52
#1	25.00	.00018	-.00631	-.00189	-.00095
#2	25.00	.00016	.00045	.00147	.00507
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00941**	**.00025**	**.00006**	**1.004**	**-.00005**
Stddev	.01716	.00075	.00000	.002	.00016
%RSD	182.33	299.27	4.2893	.1539	306.33
#1	.00272	-.00028	.00006	1.005	.00006
#2	-.02154	.00078	.00006	1.003	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 18:17:47 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00191**	**.00019**	**-.00121**	**1.000**
Stddev	.00164	.00033	.00118	.000
%RSD	85.919	178.29	97.276	.0095
#1	.00075	-.00005	-.00038	1.0000
#2	.00307	.00042	-.00205	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3914.3**	**3527.6**	**72326.**	**5336.3**
Stddev	6.7	4.3	62.	15.2
%RSD	.17139	.12153	.08640	.28519
#1	3909.5	3524.6	72282.	5347.1
#2	3919.0	3530.6	72370.	5325.6

Sample Name: CCVL-7028546 Acquired: 6/14/2022 18:21:42 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00587**	**.22311**	**.01646**	**.01917**	**.00213**
Stddev	.00020	.00601	.00165	.00013	.00001
%RSD	3.3594	2.6943	10.048	.68985	.38911
#1	.00601	.21886	.01763	.01908	.00212
#2	.00573	.22736	.01529	.01927	.00214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**.50405**	**.00198**	**-.0475**	**.00389**
Stddev	.00014	.00059	.00008	.0319	.00011
%RSD	6.9671	.11608	3.8563	67.10	2.9190
#1	.00217	.50446	.00203	-.0250	.00398
#2	.00196	.50363	.00193	-.0701	.00381
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00404**	**.01054**	**.05286**	**.45734**	**.02714**
Stddev	.00031	.00003	.00060	.03037	.00131
%RSD	7.7944	.24734	1.1438	6.6402	4.8249
#1	.00381	.01052	.05329	.47881	.02621
#2	.00426	.01056	.05244	.43586	.02806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/14/2022 18:21:42 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19137**	**.00342**	**.00926**	**.96274**	**.00952**
Stddev	.00100	.00008	.00018	.00033	.00027
%RSD	.52491	2.3130	1.9160	.03427	2.8135
#1	.19208	.00337	.00914	.96250	.00971
#2	.19066	.00348	.00939	.96297	.00933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01010**	**.18496**	**.02032**	**.02444**
Stddev	.00	.00053	.00246	.00102	.00350
%RSD	.0008	5.2907	1.3288	5.0188	14.318
#1	25.00	.01048	.18670	.01960	.02691
#2	25.00	.00972	.18322	.02104	.02196
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44764**	**.00938**	**.00512**	F **1.002**	**.00432**
Stddev	.01260	.00001	.00009	.006	.00016
%RSD	2.8157	.15939	1.6981	.6163	3.7449
#1	.43873	.00937	.00506	1.007	.00444
#2	.45656	.00939	.00518	.9981	.00421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/14/2022 18:21:42 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02032**	**.00460**	**.00868**	F **.9995**
Stddev	.00063	.00005	.00028	.0004
%RSD	3.0864	1.0352	3.2756	.0411
#1	.02076	.00463	.00848	.9998
#2	.01988	.00456	.00888	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3931.6**	**3554.4**	**73190.**	**5316.2**
Stddev	.1	.4	107.	9.3
%RSD	.00203	.01202	.14600	.17473
#1	3931.6	3554.7	73115.	5309.6
#2	3931.5	3554.1	73266.	5322.7

Sample Name: 480-198843-D-3-B Acquired: 6/14/2022 18:25:34 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.02411**	**.00649**	**.04999**	**.42665**
Stddev	.00020	.00479	.00030	.00038	.00138
%RSD	137.73	19.864	4.6649	.75971	.32312
#1	-.00029	.02072	.00627	.04972	.42763
#2	-.00000	.02749	.00670	.05026	.42568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**69.947**	**.00016**	**-.0808**	**-.00025**
Stddev	.00001	.111	.00019	.0853	.00016
%RSD	11.232	.15863	116.88	105.6	61.329
#1	.00006	70.026	.00030	-.1411	-.00036
#2	.00007	69.869	.00003	-.0204	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00034**	**.02425**	**12.034**	**.01786**
Stddev	.00011	.00017	.00154	.014	.00100
%RSD	980.50	50.468	6.3327	.12009	5.6053
#1	.00007	-.00022	.02533	12.024	.01715
#2	-.00009	-.00046	.02316	12.044	.01856
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198843-D-3-B Acquired: 6/14/2022 18:25:34 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.379**	**.00002**	**-.00017**	**4.2602**	**-.00000**
Stddev	.034	.00002	.00015	.0096	.00003
%RSD	.25487	125.92	88.172	.22610	923.95
#1	13.403	.00000	-.00028	4.2670	-.00003
#2	13.355	.00003	-.00006	4.2534	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00363**	**5.3414**	**.00033**	**-.00215**
Stddev	.00	.00100	.0085	.00178	.00150
%RSD	.0025	27.410	.15985	536.94	69.679
#1	25.01	.00433	5.3354	-.00093	-.00109
#2	25.00	.00293	5.3474	.00159	-.00322
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.199**	**-.00008**	**.62932**	**1.004**	**.00036**
Stddev	.041	.00030	.00088	.001	.00015
%RSD	.18600	361.64	.13956	.0941	41.015
#1	22.228	-.00029	.62994	1.004	.00026
#2	22.170	.00013	.62870	1.003	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198843-D-3-B Acquired: 6/14/2022 18:25:34 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00290**	**.01349**	**.00026**	**.9999**
Stddev	.00109	.00021	.00035	.0003
%RSD	37.493	1.5866	133.64	.0296
#1	.00213	.01333	.00001	1.000
#2	.00366	.01364	.00051	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3672.3**	**3461.0**	**71635.**	**5362.9**
Stddev	3.4	2.9	44.	16.7
%RSD	.09143	.08460	.06140	.31075
#1	3669.9	3459.0	71604.	5351.2
#2	3674.7	3463.1	71666.	5374.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.798%	98.982%	98.916%	102.47%
Range				

Sample Name: 480-198843-D-4-B Acquired: 6/14/2022 18:29:30 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.27266**	**.00737**	**.05766**	**.16957**
Stddev	.00053	.00003	.00394	.00033	.00016
%RSD	397.46	.01037	53.524	.57833	.09438
#1	-.00024	.27268	.01016	.05743	.16969
#2	.00051	.27264	.00458	.05790	.16946
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**91.350**	**.00016**	**-.0402**	**.00009**
Stddev	.00003	.158	.00008	.0272	.00026
%RSD	57.611	.17344	48.750	67.59	299.77
#1	.00008	91.462	.00010	-.0210	-.00010
#2	.00003	91.238	.00021	-.0594	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00086**	**-.00053**	**.20249**	**14.399**	**.02090**
Stddev	.00061	.00014	.00044	.016	.00001
%RSD	71.803	26.099	.21655	.10860	.06929
#1	.00129	-.00062	.20280	14.410	.02089
#2	.00042	-.00043	.20218	14.388	.02091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198843-D-4-B Acquired: 6/14/2022 18:29:30 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.002**	**.00425**	**.00019**	**13.068**	**.00024**
Stddev	.016	.00001	.00013	.016	.00007
%RSD	.07236	.16658	65.696	.12450	28.820
#1	22.014	.00425	.00010	13.080	.00019
#2	21.991	.00424	.00028	13.057	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00498**	**16.228**	**-.00170**	**.00406**
Stddev	.00	.00089	.028	.00053	.00516
%RSD	.0060	17.762	.17382	30.932	127.15
#1	25.01	.00561	16.248	-.00133	.00041
#2	25.01	.00436	16.209	-.00207	.00771
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.920**	**.00019**	**.93496**	**1.002**	**.00779**
Stddev	.031	.00090	.00007	.005	.00056
%RSD	.13380	486.58	.00740	.5261	7.1824
#1	22.899	.00082	.93491	1.006	.00819
#2	22.942	-.00045	.93501	.9988	.00740
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198843-D-4-B Acquired: 6/14/2022 18:29:30 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00175**	**.01441**	**.00003**	**1.000**
Stddev	.00103	.00002	.00007	.000
%RSD	58.666	.14199	221.92	.0280
#1	.00248	.01439	.00008	1.000
#2	.00103	.01442	-.00002	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3585.8**	**3429.4**	**70436.**	**5436.8**
Stddev	3.3	2.3	74.	17.1
%RSD	.09120	.06678	.10571	.31528
#1	3588.2	3427.8	70383.	5424.6
#2	3583.5	3431.0	70489.	5448.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.566%	98.077%	97.260%	103.88%
Range				

Sample Name: 480-198843-D-5-B Acquired: 6/14/2022 18:33:20 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.09077**	**.00700**	**.15411**	**.23007**
Stddev	.00077	.00651	.00162	.00078	.00069
%RSD	337.21	7.1737	23.138	.50539	.29967
#1	.00032	.09537	.00586	.15466	.23056
#2	-.00077	.08616	.00815	.15356	.22959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**108.12**	**.00009**	**-.0547**	**-.00007**
Stddev	.00002	.31	.00011	.0057	.00013
%RSD	16.431	.28448	125.24	10.37	189.65
#1	.00008	108.33	.00001	-.0507	-.00016
#2	.00010	107.90	.00017	-.0587	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00000**	**.04765**	**16.949**	**.02798**
Stddev	.00012	.00043	.00140	.029	.00022
%RSD	889.83	11591.	2.9433	.17245	.77967
#1	.00007	-.00030	.04864	16.969	.02782
#2	-.00010	.00031	.04666	16.928	.02813
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198843-D-5-B Acquired: 6/14/2022 18:33:20 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.646**	**.00172**	**-.00051**	**28.532**	**.00052**
Stddev	.082	.00004	.00004	.021	.00025
%RSD	.33314	2.0740	7.3996	.07441	47.732
#1	24.704	.00170	-.00048	28.547	.00034
#2	24.588	.00175	-.00053	28.517	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00588**	**23.629**	**-.00198**	**.00411**
Stddev	.00	.00087	.008	.00056	.00190
%RSD	.0046	14.760	.03308	28.515	46.257
#1	25.01	.00526	23.623	-.00238	.00545
#2	25.01	.00649	23.634	-.00158	.00276
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.639**	**.00178**	**1.1014**	**.9989**	**.00236**
Stddev	.102	.00089	.0028	.0056	.00013
%RSD	.38361	50.097	.25341	.5592	5.4199
#1	26.711	.00115	1.1034	.9950	.00245
#2	26.567	.00240	1.0994	1.003	.00227
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198843-D-5-B Acquired: 6/14/2022 18:33:20 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00291**	**.01581**	**.00528**	**.9992**
Stddev	.00098	.00002	.00022	.0006
%RSD	33.680	.14621	4.2242	.0646
#1	.00361	.01583	.00512	.9996
#2	.00222	.01580	.00543	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3508.5**	**3378.0**	**69548.**	**5345.3**
Stddev	.3	2.5	317.	28.5
%RSD	.00868	.07446	.45556	.53281
#1	3508.7	3376.2	69324.	5325.2
#2	3508.3	3379.8	69772.	5365.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.570%	96.608%	96.034%	102.13%
Range				

Sample Name: 480-198843-D-6-B Acquired: 6/14/2022 18:37:10 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.04043**	**.00668**	**.04957**	**.07282**
Stddev	.00051	.01651	.00032	.00004	.00014
%RSD	549.25	40.833	4.7827	.08652	.18577
#1	.00027	.02876	.00645	.04954	.07291
#2	-.00045	.05211	.00691	.04960	.07272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**64.300**	**.00007**	**-.0015**	**.00000**
Stddev	.00003	.192	.00008	.0050	.00023
%RSD	144.08	.29845	110.64	331.0	10281.
#1	.00004	64.436	.00002	.0020	-.00016
#2	-.00000	64.164	.00013	-.0051	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.00004**	**.00263**	**12.741**	**.01773**
Stddev	.00002	.00069	.00081	.039	.00007
%RSD	2.9960	1742.8	30.974	.30493	.36721
#1	.00050	-.00045	.00205	12.768	.01777
#2	.00052	.00053	.00321	12.713	.01768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198843-D-6-B Acquired: 6/14/2022 18:37:10 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.641**	**.00006**	**.00221**	**9.0013**	**-.00006**
Stddev	.034	.00004	.00029	.0135	.00014
%RSD	.21559	62.155	12.962	.15042	257.38
#1	15.665	.00009	.00241	9.0109	-.00016
#2	15.617	.00004	.00200	8.9917	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00433**	**19.199**	**-.00301**	**.01150**
Stddev	.00	.00173	.022	.00012	.00046
%RSD	.0021	40.016	.11654	3.8720	3.9912
#1	25.00	.00555	19.215	-.00309	.01183
#2	25.00	.00310	19.183	-.00292	.01118
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.916**	**.00247**	**.65075**	**.9993**	**.00007**
Stddev	.132	.00060	.00178	.0005	.00025
%RSD	.60444	24.420	.27334	.0528	334.83
#1	22.009	.00204	.65201	.9997	.00025
#2	21.822	.00290	.64949	.9989	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198843-D-6-B Acquired: 6/14/2022 18:37:10 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00264**	**.01339**	**.00040**	**1.000**
Stddev	.00114	.00060	.00040	.000
%RSD	43.244	4.5068	98.625	.0275
#1	.00345	.01382	.00012	1.000
#2	.00183	.01297	.00069	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3635.3**	**3432.9**	**70875.**	**5341.3**
Stddev	1.5	.1	179.	41.6
%RSD	.04223	.00365	.25261	.77921
#1	3634.2	3432.8	70748.	5311.9
#2	3636.4	3433.0	71001.	5370.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.842%	98.177%	97.866%	102.06%
Range				

Sample Name: 198665-16 sol Acquired: 6/14/2022 18:41:00 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.03148**	**.00433**	**.60149**	**.05358**
Stddev	.00063	.00026	.00018	.00218	.00017
%RSD	845.45	.82401	4.1654	.36227	.31001
#1	.00037	.03130	.00446	.59995	.05370
#2	-.00052	.03166	.00420	.60303	.05346
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**145.51**	**-.00001**	**-.0009**	**.00003**
Stddev	.00002	.70	.00003	.0038	.00013
%RSD	505.91	.48084	278.35	399.8	417.05
#1	.00001	146.01	-.00004	.0017	.00012
#2	-.00002	145.02	.00001	-.0036	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.00051**	**-.00087**	**1.8108**	**.01462**
Stddev	.00006	.00018	.00021	.0203	.00062
%RSD	10.815	36.030	23.700	1.1220	4.2428
#1	-.00059	.00063	-.00073	1.8252	.01506
#2	-.00051	.00038	-.00102	1.7965	.01418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 198665-16 sol Acquired: 6/14/2022 18:41:00 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**83.743**	**.00268**	**.00483**	**64.565**	**.00113**
Stddev	.374	.00007	.00079	.293	.00056
%RSD	.44705	2.4863	16.389	.45426	49.782
#1	84.008	.00273	.00539	64.772	.00153
#2	83.479	.00264	.00427	64.357	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00201**	F **163.48**	**-.00199**	**-.00587**
Stddev	.00	.00030	.01	.00063	.00540
%RSD	.0021	14.893	.00483	31.618	92.062
#1	25.01	.00222	163.47	-.00243	-.00969
#2	25.01	.00180	163.48	-.00154	-.00205
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.4184**	**-.00030**	**1.5117**	**1.003**	**.00022**
Stddev	.0528	.00030	.0060	.001	.00013
%RSD	.82309	102.19	.39520	.0670	60.135
#1	6.4558	-.00008	1.5159	1.004	.00031
#2	6.3810	-.00051	1.5074	1.003	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 198665-16 sol Acquired: 6/14/2022 18:41:00 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00438**	**-.00034**	**.00117**	**.9996**
Stddev	.00051	.00005	.00040	.0001
%RSD	11.700	15.570	33.808	.0109
#1	.00401	-.00030	.00089	.9995
#2	.00474	-.00037	.00145	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3383.6**	**3287.2**	**67364.**	**5152.8**
Stddev	8.7	10.9	193.	19.1
%RSD	.25771	.33092	.28680	.37129
#1	3389.7	3294.9	67227.	5139.2
#2	3377.4	3279.5	67500.	5166.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.344%	94.011%	93.018%	98.456%
Range				

Sample Name: 198665-20 sol Acquired: 6/14/2022 18:44:49 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.05790**	**.00300**	**.35216**	**.01950**
Stddev	.00068	.02202	.00289	.00032	.00015
%RSD	427.87	38.039	96.298	.09082	.75717
#1	-.00064	.07347	.00096	.35239	.01961
#2	.00032	.04233	.00505	.35194	.01940
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**98.750**	**.00005**	**-.0240**	**.00004**
Stddev	.00013	.540	.00006	.0292	.00029
%RSD	337.67	.54671	108.83	121.7	817.12
#1	-.00013	99.132	.00001	-.0033	.00024
#2	.00005	98.368	.00009	-.0446	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00059**	**.03089**	**.56529**	**.00759**
Stddev	.00004	.00018	.00249	.03596	.00036
%RSD	28.032	29.528	8.0533	6.3614	4.6879
#1	-.00018	.00047	.03265	.59072	.00785
#2	-.00012	.00072	.02913	.53986	.00734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 198665-20 sol Acquired: 6/14/2022 18:44:49 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.920**	**.02526**	**.00471**	**43.791**	**.00107**
Stddev	.292	.00007	.00065	.230	.00012
%RSD	.58518	.29261	13.712	.52533	11.570
#1	50.127	.02531	.00516	43.954	.00098
#2	49.713	.02521	.00425	43.629	.00115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00065**	**87.835**	**-.00079**	**-.00261**
Stddev	.00	.00060	.126	.00019	.00052
%RSD	.0010	92.465	.14288	24.136	19.919
#1	25.00	.00107	87.746	-.00092	-.00298
#2	25.00	.00022	87.924	-.00065	-.00224
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.7462**	**-.00058**	**.39947**	**1.002**	**.00171**
Stddev	.0248	.00141	.00169	.005	.00018
%RSD	.43156	244.83	.42400	.4566	10.249
#1	5.7287	.00042	.40067	.9986	.00159
#2	5.7638	-.00157	.39827	1.005	.00183
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 198665-20 sol Acquired: 6/14/2022 18:44:49 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00285**	**-.00016**	**-.00117**	**.9995**
Stddev	.00025	.00031	.00003	.0002
%RSD	8.9047	189.03	2.2875	.0209
#1	.00267	.00005	-.00115	.9994
#2	.00303	-.00038	-.00119	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3505.9**	**3346.0**	**68914.**	**5190.4**
Stddev	6.9	3.0	272.	43.8
%RSD	.19753	.09048	.39529	.84343
#1	3510.8	3348.1	68721.	5159.5
#2	3501.0	3343.9	69106.	5221.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.503%	95.693%	95.158%	99.175%
Range				

Sample Name: 198665-3 sol Acquired: 6/14/2022 18:48:38 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00069**	**.01164**	**.00257**	**.00506**	**.00151**
Stddev	.00027	.03835	.00038	.00025	.00002
%RSD	38.456	329.55	14.950	4.9635	1.1683
#1	-.00051	.03875	.00284	.00488	.00149
#2	-.00088	-.01548	.00230	.00523	.00152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**4.9971**	**-.00006**	**-.1527**	**.00017**
Stddev	.00004	.0238	.00019	.1122	.00005
%RSD	94.959	.47655	317.32	73.51	31.448
#1	.00001	5.0139	.00008	-.0733	.00013
#2	.00007	4.9803	-.00020	-.2320	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.00114**	**.00432**	**.00924**	**-.00083**
Stddev	.00011	.00012	.00295	.02009	.00027
%RSD	19.477	10.440	68.420	217.39	32.331
#1	-.00051	.00106	.00640	-.00497	-.00064
#2	-.00067	.00122	.00223	.02345	-.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 198665-3 sol Acquired: 6/14/2022 18:48:38 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.2679**	**.00050**	**-.00104**	**.79661**	**.00040**
Stddev	.0124	.00001	.00010	.00040	.00011
%RSD	.38106	1.7679	10.011	.04989	27.307
#1	3.2767	.00050	-.00111	.79633	.00048
#2	3.2591	.00049	-.00096	.79689	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00066**	**6.8390**	**-.00237**	**-.00175**
Stddev	.00	.00138	.0061	.00192	.00252
%RSD	.0003	209.79	.08897	81.073	143.98
#1	25.00	-.00032	6.8347	-.00101	.00003
#2	25.00	.00163	6.8433	-.00373	-.00353
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09960**	**-.00020**	**.07624**	**.9985**	**-.00055**
Stddev	.00534	.00006	.00014	.0003	.00028
%RSD	5.3610	27.714	.18571	.0252	51.016
#1	.10337	-.00016	.07634	.9987	-.00035
#2	.09582	-.00024	.07614	.9984	-.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 198665-3 sol Acquired: 6/14/2022 18:48:38 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00349**	**-.00023**	**-.00216**	**.9997**
Stddev	.00043	.00029	.00012	.0001
%RSD	12.342	126.21	5.6688	.0139
#1	.00318	-.00043	-.00207	.9998
#2	.00379	-.00002	-.00224	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3982.9**	**3569.0**	**72976.**	**5423.8**
Stddev	14.9	13.4	133.	24.1
%RSD	.37386	.37486	.18175	.44510
#1	3993.4	3578.5	72882.	5406.7
#2	3972.3	3559.6	73070.	5440.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.81%	102.07%	100.77%	103.63%
Range				

Sample Name: MB 480-629848/1-A Acquired: 6/14/2022 18:52:29 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.00811**	**.00172**	**.00079**	**.00003**
Stddev	.00052	.01505	.00060	.00040	.00002
%RSD	174.46	185.60	34.891	50.593	82.436
#1	-.00007	-.00253	.00129	.00107	.00001
#2	.00067	.01875	.00214	.00051	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.03134**	**.00009**	**-.0851**	**.00011**
Stddev	.00006	.00138	.00010	.0498	.00001
%RSD	206.81	4.4131	109.07	58.52	11.766
#1	.00007	.03036	.00015	-.1203	.00012
#2	-.00001	.03232	.00002	-.0499	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.00089**	**.00346**	**-.06186**	**.00007**
Stddev	.00036	.00026	.00118	.01738	.00010
%RSD	13556.	29.218	34.021	28.100	152.61
#1	.00025	.00070	.00429	-.07415	-.00001
#2	-.00026	.00107	.00263	-.04957	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629848/1-A Acquired: 6/14/2022 18:52:29 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**.00008**	**-.00111**	**.01427**	**.00024**
Stddev	.00347	.00007	.00022	.00187	.00034
%RSD	168.59	85.899	20.182	13.078	143.51
#1	-.00040	.00012	-.00126	.01295	-.00000
#2	.00451	.00003	-.00095	.01559	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00139**	**.02768**	**-.00025**	**-.00068**
Stddev	.00	.00110	.00269	.00014	.00101
%RSD	.0019	79.081	9.7188	56.667	148.53
#1	25.00	.00216	.02958	-.00035	-.00140
#2	25.00	.00061	.02578	-.00015	.00003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02083**	**.00072**	**.00016**	**1.004**	**-.00047**
Stddev	.00909	.00008	.00001	.006	.00041
%RSD	43.639	10.929	8.2594	.6237	87.406
#1	-.02726	.00077	.00015	1.008	-.00018
#2	-.01440	.00066	.00017	.9992	-.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629848/1-A Acquired: 6/14/2022 18:52:29 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00107**	**-.00005**	**.00059**	**1.000**
Stddev	.00131	.00012	.00004	.000
%RSD	122.45	244.09	7.3664	.0192
#1	.00200	.00004	.00055	1.0000
#2	.00014	-.00013	.00062	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3901.2**	**3531.9**	**72987.**	**5431.2**
Stddev	10.1	2.4	116.	22.0
%RSD	.26008	.06826	.15839	.40567
#1	3908.3	3533.6	73069.	5446.8
#2	3894.0	3530.2	72905.	5415.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.71%	101.01%	100.78%	103.78%
Range				

Sample Name: LCS 480-629848/2-A Acquired: 6/14/2022 18:56:22 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04929**	**9.3782**	**.20108**	**.18830**	**.19931**
Stddev	.00014	.0402	.00356	.00017	.00086
%RSD	.27632	.42898	1.7688	.09003	.43381
#1	.04939	9.4067	.19857	.18842	.19869
#2	.04920	9.3498	.20360	.18818	.19992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20430**	**9.9226**	**.19861**	**-.1395**	**.19898**
Stddev	.00043	.0191	.00031	.1222	.00023
%RSD	.21232	.19290	.15690	87.55	.11309
#1	.20461	9.9361	.19839	-.0531	.19914
#2	.20400	9.9090	.19883	-.2259	.19883
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20291**	**.20744**	**10.121**	**9.0608**	**.17671**
Stddev	.00073	.00011	.014	.0312	.00200
%RSD	.36196	.05453	.13625	.34381	1.1316
#1	.20239	.20736	10.131	9.0829	.17812
#2	.20343	.20752	10.111	9.0388	.17529
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629848/2-A Acquired: 6/14/2022 18:56:22 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.365**	**.20649**	**.20397**	**8.9998**	**.19536**
Stddev	.044	.00113	.00086	.0199	.00005
%RSD	.42169	.54868	.42118	.22078	.02423
#1	10.334	.20569	.20457	9.0139	.19533
#2	10.396	.20729	.20336	8.9858	.19540
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.20079**	**9.7990**	**.20815**	**.20014**
Stddev	.00	.00145	.0193	.00122	.00230
%RSD	.0022	.72157	.19710	.58529	1.1485
#1	25.00	.20182	9.8127	.20901	.20176
#2	25.00	.19977	9.7854	.20729	.19851
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4334**	F **.23658**	**.18853**	**1.007**	**.20366**
Stddev	.0023	.00053	.00068	.003	.00029
%RSD	.02454	.22431	.36157	.3320	.14092
#1	9.4351	.23621	.18901	1.009	.20345
#2	9.4318	.23696	.18805	1.004	.20386
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: LCS 480-629848/2-A Acquired: 6/14/2022 18:56:22 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20402**	**.20101**	**.19966**	**1.000**
Stddev	.00179	.00107	.00234	.001
%RSD	.87856	.53364	1.1714	.0481
#1	.20275	.20026	.19800	1.001
#2	.20529	.20177	.20131	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3653.1**	**3442.7**	**70694.**	**5398.1**
Stddev	5.4	3.8	107.	3.3
%RSD	.14661	.10906	.15146	.06129
#1	3656.8	3445.3	70770.	5400.4
#2	3649.3	3440.0	70618.	5395.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.301%	98.457%	97.617%	103.14%
Range				

Sample Name: CCV-7032336 Acquired: 6/14/2022 19:00:05 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0256**	**50.884**	**1.0087**	**1.0438**	**1.0060**
Stddev	.0012	.071	.0090	.0003	.0028
%RSD	.11690	.13995	.89151	.03115	.28260
#1	1.0248	50.834	1.0151	1.0440	1.0040
#2	1.0265	50.935	1.0024	1.0436	1.0080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0202**	**51.003**	**1.0222**	**1.033**	**1.0088**
Stddev	.0027	.079	.0004	.000	.0006
%RSD	.26186	.15462	.03850	.0081	.05503
#1	1.0184	50.947	1.0225	1.033	1.0091
#2	1.0221	51.059	1.0219	1.033	1.0084
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0176**	**1.0122**	**51.255**	**50.216**	**.98994**
Stddev	.0007	.0011	.055	.146	.00242
%RSD	.06676	.11171	.10651	.29011	.24468
#1	1.0172	1.0114	51.294	50.113	.98822
#2	1.0181	1.0130	51.216	50.319	.99165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 19:00:05 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.014**	**1.0224**	**1.0165**	**49.931**	**1.0087**
Stddev	.037	.0013	.0029	.111	.0018
%RSD	.07296	.13128	.28556	.22169	.17406
#1	50.988	1.0214	1.0185	49.853	1.0099
#2	51.041	1.0233	1.0144	50.009	1.0074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.73**	**1.0128**	**25.286**	**1.0148**	**1.0038**
Stddev	.02	.0041	.040	.0037	.0003
%RSD	.0567	.40055	.15900	.35932	.02706
#1	37.74	1.0157	25.315	1.0122	1.0040
#2	37.71	1.0100	25.258	1.0173	1.0036
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.173**	**1.0097**	**1.0088**	**1.511**	**1.0125**
Stddev	.011	.0011	.0006	.001	.0008
%RSD	.10948	.10983	.05589	.0511	.08310
#1	10.181	1.0104	1.0084	1.510	1.0119
#2	10.165	1.0089	1.0092	1.511	1.0131
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 19:00:05 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0220**	**1.0163**	**1.0352**	**1.507**
Stddev	.0040	.0005	.0025	.001
%RSD	.39447	.04607	.23717	.0507
#1	1.0249	1.0160	1.0334	1.506
#2	1.0192	1.0166	1.0369	1.507
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3344.7**	**3337.9**	**67641.**	**5133.9**
Stddev	2.0	5.2	63.	18.9
%RSD	.06059	.15642	.09361	.36805
#1	3343.2	3334.2	67685.	5147.2
#2	3346.1	3341.6	67596.	5120.5

Sample Name: CCB-7026764 Acquired: 6/14/2022 19:03:44 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00943**	**.00197**	**.00075**	**.00004**
Stddev	.00016	.00033	.00103	.00025	.00003
%RSD	91.203	3.5508	52.034	33.887	66.074
#1	-.00029	.00966	.00270	.00093	.00002
#2	-.00006	.00919	.00125	.00057	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00374**	**-.00007**	**-.0570**	**.00019**
Stddev	.00006	.00172	.00004	.0955	.00010
%RSD	219.91	46.021	50.420	167.5	55.519
#1	.00008	-.00495	-.00005	-.1246	.00011
#2	-.00002	-.00252	-.00010	.0105	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00059**	**.00141**	**.00379**	**.00150**
Stddev	.00037	.00005	.00036	.00566	.00116
%RSD	174.18	8.0364	25.346	149.42	77.402
#1	.00005	.00055	.00167	-.00021	.00233
#2	-.00048	.00062	.00116	.00779	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 19:03:44 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00004**	**.00161**	**-.00163**	**-.00009**
Stddev	.00013	.00001	.00003	.00814	.00016
%RSD	28.547	38.297	2.0963	498.79	183.59
#1	.00054	.00003	.00163	.00412	.00003
#2	.00036	.00005	.00159	-.00739	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00061**	**.00176**	**-.00156**	**.00075**
Stddev	.00	.00031	.00042	.00037	.00029
%RSD	.0075	50.690	24.009	23.705	38.366
#1	25.00	.00039	.00206	-.00130	.00055
#2	25.00	.00083	.00146	-.00182	.00095
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02092**	**-.00038**	**.00007**	**1.003**	**-.00023**
Stddev	.00201	.00022	.00006	.002	.00045
%RSD	9.6325	57.852	83.887	.2137	195.73
#1	-.02234	-.00022	.00012	1.005	-.00054
#2	-.01949	-.00053	.00003	1.002	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 19:03:44 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00138**	**-.00000**	**-.00153**	**1.000**
Stddev	.00048	.00001	.00058	.000
%RSD	34.496	243.08	38.113	.0141
#1	.00104	.00000	-.00111	1.000
#2	.00171	-.00001	-.00194	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3882.6**	**3495.4**	**72184.**	**5225.0**
Stddev	6.2	.2	137.	53.7
%RSD	.15966	.00639	.19039	1.0282
#1	3887.0	3495.5	72282.	5187.0
#2	3878.3	3495.2	72087.	5263.0

Sample Name: CCVL-7028546 Acquired: 6/14/2022 19:07:39 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00612**	**.20056**	**.01512**	**.01938**	**.00215**
Stddev	.00046	.00550	.00079	.00009	.00000
%RSD	7.4718	2.7439	5.2395	.44122	.10085
#1	.00644	.19667	.01456	.01932	.00215
#2	.00580	.20445	.01568	.01944	.00215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.50416**	**.00199**	**-.0852**	**.00383**
Stddev	.00005	.00006	.00018	.1082	.00000
%RSD	2.6589	.01286	8.9759	127.1	.10234
#1	.00201	.50411	.00212	-.0086	.00382
#2	.00209	.50420	.00186	-.1617	.00383
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00381**	**.01066**	**.05075**	**.44983**	**.02647**
Stddev	.00058	.00047	.00016	.01248	.00276
%RSD	15.171	4.4084	.32209	2.7752	10.444
#1	.00340	.01099	.05087	.45866	.02842
#2	.00422	.01033	.05064	.44100	.02451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/14/2022 19:07:39 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19379**	**.00341**	**.00935**	**.96956**	**.00984**
Stddev	.00340	.00006	.00009	.00365	.00001
%RSD	1.7545	1.7421	.92513	.37643	.06391
#1	.19619	.00337	.00929	.97214	.00983
#2	.19138	.00346	.00941	.96698	.00984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00979**	**.19224**	**.01844**	**.02295**
Stddev	.00	.00004	.00098	.00010	.00234
%RSD	.0037	.44619	.51142	.54103	10.212
#1	25.00	.00982	.19154	.01837	.02129
#2	25.00	.00976	.19293	.01851	.02460
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45196**	**.00950**	**.00520**	F **1.001**	**.00442**
Stddev	.01435	.00005	.00007	.003	.00003
%RSD	3.1744	.50432	1.2518	.2736	.58465
#1	.44181	.00953	.00516	1.003	.00440
#2	.46210	.00947	.00525	.9988	.00444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/14/2022 19:07:39 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02039**	**.00484**	**.00940**	F **1.001**
Stddev	.00012	.00048	.00027	.000
%RSD	.60090	9.8140	2.8339	.0003
#1	.02047	.00451	.00959	1.001
#2	.02030	.00518	.00921	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3905.3**	**3530.8**	**73046.**	**5288.5**
Stddev	.9	2.4	138.	11.7
%RSD	.02391	.06791	.18914	.22074
#1	3906.0	3529.1	72949.	5280.3
#2	3904.7	3532.5	73144.	5296.8

Sample Name: LCSD 480-629848/3-A Acquired: 6/14/2022 19:11:32 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04900**	**10.486**	**.19863**	**.20639**	**.21801**
Stddev	.00010	.003	.00045	.00063	.00045
%RSD	.20578	.02697	.22629	.30284	.20636
#1	.04907	10.488	.19895	.20595	.21769
#2	.04893	10.484	.19831	.20683	.21832
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20698**	**10.010**	**.19594**	**-.0359**	**.19623**
Stddev	.00078	.020	.00021	.0031	.00028
%RSD	.37585	.19724	.10570	8.655	.14412
#1	.20753	10.024	.19579	-.0381	.19643
#2	.20643	9.9961	.19609	-.0337	.19603
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19980**	**.20467**	**10.159**	**10.123**	**.20061**
Stddev	.00034	.00110	.019	.000	.00056
%RSD	.16986	.53650	.18368	.00298	.27911
#1	.19956	.20389	10.172	10.123	.20101
#2	.20004	.20544	10.146	10.123	.20022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSD 480-629848/3-A Acquired: 6/14/2022 19:11:32 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.164**	**.20221**	**.20243**	**10.082**	**.19248**
Stddev	.005	.00039	.00068	.011	.00016
%RSD	.05130	.19371	.33763	.10501	.08563
#1	10.168	.20193	.20292	10.090	.19259
#2	10.161	.20248	.20195	10.075	.19236
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.19766**	**9.6172**	**.20416**	**.19199**
Stddev	.00	.00102	.0212	.00039	.00241
%RSD	.0010	.51643	.22083	.19277	1.2577
#1	25.00	.19694	9.6022	.20444	.19370
#2	25.00	.19838	9.6322	.20388	.19029
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3772**	F **.24143**	**.20824**	**1.006**	**.20206**
Stddev	.0300	.00049	.00071	.004	.00041
%RSD	.32030	.20446	.33965	.3974	.20279
#1	9.3985	.24178	.20874	1.003	.20177
#2	9.3560	.24108	.20774	1.009	.20235
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: LCSD 480-629848/3-A Acquired: 6/14/2022 19:11:32 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20285**	**.19685**	**.19510**	**1.001**
Stddev	.00014	.00061	.00069	.000
%RSD	.06850	.31148	.35436	.0003
#1	.20276	.19642	.19461	1.001
#2	.20295	.19729	.19559	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3698.8**	**3489.6**	**71895.**	**5380.0**
Stddev	1.1	1.8	111.	3.7
%RSD	.02942	.05060	.15494	.06828
#1	3699.6	3490.9	71974.	5382.6
#2	3698.1	3488.4	71817.	5377.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.483%	99.800%	99.275%	102.80%
Range				

Sample Name: 480-198604-D-1-B Acquired: 6/14/2022 19:15:13 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.20595**	**.00312**	**.08503**	**.09509**
Stddev	.00047	.01748	.00198	.00004	.00023
%RSD	157.04	8.4877	63.392	.04568	.24391
#1	-.00003	.19359	.00451	.08501	.09492
#2	.00063	.21831	.00172	.08506	.09525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**66.448**	**.00015**	**-.0393**	**.00033**
Stddev	.00007	.282	.00012	.0057	.00004
%RSD	170.40	.42379	76.176	14.50	10.818
#1	.00009	66.249	.00007	-.0434	.00036
#2	-.00001	66.648	.00024	-.0353	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00052**	**.28112**	**2.1855**	**.02940**
Stddev	.00012	.00010	.00355	.0114	.00055
%RSD	295.74	19.761	1.2645	.52276	1.8790
#1	-.00004	-.00045	.27861	2.1774	.02901
#2	.00013	-.00060	.28364	2.1936	.02979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198604-D-1-B Acquired: 6/14/2022 19:15:13 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**75.644**	**.08604**	**.00206**	**26.002**	**.00037**
Stddev	.257	.00028	.00005	.074	.00004
%RSD	.33919	.32962	2.4513	.28621	11.202
#1	75.463	.08583	.00203	25.949	.00040
#2	75.825	.08624	.00210	26.054	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00191**	**9.7785**	**.00006**	**-.00410**
Stddev	.00	.00148	.0105	.00039	.00424
%RSD	.0033	77.508	.10782	628.22	103.35
#1	25.01	.00087	9.7860	.00033	-.00110
#2	25.01	.00296	9.7711	-.00021	-.00710
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.6758**	**.00042**	**1.2021**	**.9990**	**.00544**
Stddev	.0110	.00051	.0028	.0069	.00075
%RSD	.12642	119.39	.23571	.6920	13.819
#1	8.6680	.00007	1.2001	1.004	.00491
#2	8.6836	.00078	1.2041	.9941	.00597
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198604-D-1-B Acquired: 6/14/2022 19:15:13 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00241**	**.00069**	**-.00055**	**.9998**
Stddev	.00239	.00005	.00040	.0006
%RSD	99.205	7.1014	73.217	.0557
#1	.00072	.00073	-.00026	1.000
#2	.00410	.00066	-.00083	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3495.8**	**3376.8**	**69729.**	**5300.3**
Stddev	5.0	2.8	69.	22.6
%RSD	.14424	.08146	.09850	.42708
#1	3499.3	3378.7	69777.	5316.3
#2	3492.2	3374.8	69680.	5284.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.240%	96.573%	96.284%	101.27%
Range				

Sample Name: 480-198604-D-1-Bsd@5 Acquired: 6/14/2022 19:19:02 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.07856**	**.00319**	**.01681**	**.01971**
Stddev	.00012	.02463	.00107	.00015	.00003
%RSD	247.63	31.358	33.548	.86410	.13116
#1	.00013	.09598	.00395	.01671	.01972
#2	-.00004	.06114	.00243	.01691	.01969
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**13.614**	**-.00004**	**-.0214**	**.00031**
Stddev	.00006	.048	.00022	.0604	.00001
%RSD	758.92	.35246	548.20	281.8	2.7305
#1	-.00003	13.647	-.00020	-.0641	.00032
#2	.00005	13.580	.00012	.0213	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00012**	**.05530**	**.38297**	**.00594**
Stddev	.00016	.00016	.00215	.00910	.00008
%RSD	252.73	131.81	3.8904	2.3754	1.3030
#1	-.00017	.00023	.05377	.37654	.00600
#2	.00005	.00001	.05682	.38940	.00589
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198604-D-1-Bsd@5 Acquired: 6/14/2022 19:19:02 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.898**	**.01731**	**-.00076**	**5.2149**	**.00015**
Stddev	.001	.00009	.00007	.0083	.00013
%RSD	.00589	.50674	8.6878	.15988	90.948
#1	14.897	.01737	-.00071	5.2208	.00005
#2	14.898	.01725	-.00080	5.2090	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00136**	**1.8887**	**-.00084**	**-.00307**
Stddev	.00	.00142	.0015	.00299	.00197
%RSD	.0014	104.34	.07773	357.58	64.078
#1	25.00	.00036	1.8897	.00128	-.00168
#2	25.00	.00237	1.8877	-.00295	-.00447
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.7238**	**-.00006**	**.24096**	**.9962**	**.00037**
Stddev	.0083	.00138	.00059	.0027	.00005
%RSD	.48416	2204.8	.24410	.2701	14.162
#1	1.7297	.00091	.24137	.9943	.00033
#2	1.7179	-.00104	.24054	.9981	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198604-D-1-Bsd@5 Acquired: 6/14/2022 19:19:02 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00320**	**.00002**	**-.00158**	**.9995**
Stddev	.00030	.00008	.00047	.0010
%RSD	9.3995	486.12	29.872	.0961
#1	.00341	.00007	-.00191	1.000
#2	.00298	-.00004	-.00124	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3783.9**	**3514.0**	**72530.**	**5317.7**
Stddev	.8	.4	65.	32.5
%RSD	.02025	.01048	.08999	.61037
#1	3784.5	3513.8	72484.	5294.7
#2	3783.4	3514.3	72576.	5340.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.680%	100.50%	100.15%	101.61%
Range				

Sample Name: 480-198604-D-1-BPDS Acquired: 6/14/2022 19:22:54 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05233**	**10.548**	**.21123**	**.28845**	**.30370**
Stddev	.00122	.045	.00062	.00071	.00238
%RSD	2.3322	.42685	.29188	.24545	.78247
#1	.05320	10.580	.21167	.28795	.30538
#2	.05147	10.516	.21079	.28895	.30202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21456**	**74.490**	**.20744**	**.0300**	**.20617**
Stddev	.00081	.067	.00055	.1592	.00018
%RSD	.37724	.09056	.26629	530.2	.08564
#1	.21399	74.538	.20705	.1426	.20604
#2	.21513	74.442	.20783	-.0825	.20629
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20873**	**.21299**	**10.606**	**12.397**	**.22960**
Stddev	.00151	.00173	.003	.005	.00087
%RSD	.72154	.81153	.02755	.03741	.37722
#1	.20979	.21421	10.604	12.393	.22899
#2	.20766	.21177	10.608	12.400	.23021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198604-D-1-BPDS Acquired: 6/14/2022 19:22:54 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**84.078**	**.29596**	**.21315**	**35.037**	**.20192**
Stddev	.508	.00136	.00006	.008	.00074
%RSD	.60371	.45794	.02754	.02176	.36589
#1	84.437	.29692	.21311	35.042	.20139
#2	83.719	.29500	.21319	35.032	.20244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.20976**	**19.723**	**.21885**	**.19561**
Stddev	.00	.00174	.010	.00072	.00076
%RSD	.0058	.83163	.04859	.32799	.38798
#1	25.01	.21099	19.717	.21835	.19508
#2	25.00	.20852	19.730	.21936	.19615
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.528**	**.20835**	**1.3705**	**1.002**	**.21556**
Stddev	.010	.00021	.0005	.002	.00027
%RSD	.05298	.10060	.03797	.2194	.12413
#1	18.535	.20850	1.3708	1.003	.21537
#2	18.521	.20820	1.3701	1.0000	.21575
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198604-D-1-BPDS Acquired: 6/14/2022 19:22:54 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21531**	**.20713**	**.20352**	**1.000**
Stddev	.00094	.00166	.00033	.000
%RSD	.43736	.80036	.16071	.0304
#1	.21598	.20830	.20375	1.000
#2	.21465	.20595	.20329	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3420.6**	**3360.5**	**69091.**	**5301.1**
Stddev	8.7	7.7	374.	3.3
%RSD	.25346	.22980	.54083	.06256
#1	3426.7	3365.9	68826.	5298.8
#2	3414.4	3355.0	69355.	5303.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.299%	96.107%	95.403%	101.29%
Range				

Sample Name: 480-198604-D-2-B Acquired: 6/14/2022 19:26:40 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.01458**	**.01398**	**.33820**	**.07261**
Stddev	.00012	.01842	.00138	.00048	.00010
%RSD	482.05	126.34	9.8836	.14263	.13883
#1	-.00006	.00156	.01300	.33854	.07269
#2	.00011	.02761	.01495	.33786	.07254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**18.441**	**.00003**	**-.0033**	**.00036**
Stddev	.00001	.071	.00002	.0292	.00025
%RSD	15.802	.38589	68.510	881.1	69.503
#1	.00006	18.492	.00004	-.0240	.00054
#2	.00008	18.391	.00001	.0174	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00094**	**.00099**	**4.4070**	**1.6700**	**.03558**
Stddev	.00004	.00012	.0120	.0023	.00069
%RSD	3.7139	12.517	.27180	.13763	1.9371
#1	.00097	.00108	4.4155	1.6684	.03607
#2	.00092	.00091	4.3985	1.6716	.03510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198604-D-2-B Acquired: 6/14/2022 19:26:40 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.462**	**.06273**	**.00262**	**60.901**	**.00131**
Stddev	.073	.00013	.00014	.665	.00008
%RSD	.29715	.20302	5.1936	1.0917	6.4299
#1	24.513	.06282	.00271	61.371	.00137
#2	24.410	.06264	.00252	60.431	.00125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00199**	**9.6429**	**.00014**	**.00038**
Stddev	.00	.00045	.0134	.00096	.00114
%RSD	.0001	22.384	.13940	676.26	301.26
#1	25.01	.00230	9.6334	.00082	-.00043
#2	25.01	.00167	9.6524	-.00054	.00118
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2805**	**.00062**	**2.4837**	**1.004**	**.00006**
Stddev	.0045	.00013	.0104	.000	.00004
%RSD	.08486	20.519	.41776	.0316	65.497
#1	5.2837	.00053	2.4910	1.004	.00009
#2	5.2773	.00071	2.4763	1.004	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198604-D-2-B Acquired: 6/14/2022 19:26:40 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00094**	**.00006**	**-.00074**	**1.001**
Stddev	.00145	.00005	.00036	.000
%RSD	153.76	87.782	48.589	.0415
#1	-.00008	.00010	-.00100	1.001
#2	.00196	.00002	-.00049	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3579.4**	**3420.2**	**70403.**	**5276.5**
Stddev	.7	1.6	197.	25.8
%RSD	.02013	.04707	.27976	.48872
#1	3578.9	3421.4	70263.	5258.3
#2	3579.9	3419.1	70542.	5294.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.399%	97.815%	97.214%	100.82%
Range				

Sample Name: 480-198604-D-3-B Acquired: 6/14/2022 19:30:29 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.46195**	**.01073**	**.12399**	**.03622**
Stddev	.00032	.04118	.00019	.00097	.00000
%RSD	87.152	8.9147	1.8070	.78634	.00094
#1	-.00014	.43283	.01087	.12330	.03622
#2	-.00059	.49106	.01059	.12468	.03622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**20.932**	**.00021**	**-.1014**	**-.00012**
Stddev	.00004	.028	.00016	.0009	.00010
%RSD	31.832	.13359	74.282	.8925	83.728
#1	.00014	20.951	.00033	-.1007	-.00005
#2	.00009	20.912	.00010	-.1020	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00041**	**.14881**	**2.5012**	**.02992**
Stddev	.00019	.00016	.00133	.0452	.00096
%RSD	85.123	39.586	.89312	1.8093	3.1932
#1	.00037	.00029	.14787	2.5332	.03060
#2	.00009	.00052	.14975	2.4692	.02925
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198604-D-3-B Acquired: 6/14/2022 19:30:29 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.8850**	**.00164**	**.00408**	**44.654**	**.00037**
Stddev	.0158	.00001	.00004	.068	.00014
%RSD	.17783	.73571	.98465	.15236	38.193
#1	8.8739	.00165	.00406	44.702	.00046
#2	8.8962	.00163	.00411	44.606	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00617**	**6.2953**	**.00028**	**-.00008**
Stddev	.00	.00096	.0128	.00129	.00482
%RSD	.0057	15.610	.20301	452.97	5780.7
#1	25.01	.00549	6.2863	.00120	-.00349
#2	25.01	.00685	6.3043	-.00063	.00332
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.344**	**-.00051**	**1.0663**	**1.004**	**.00289**
Stddev	.027	.00028	.0012	.006	.00045
%RSD	.10156	55.231	.11331	.6144	15.472
#1	26.363	-.00031	1.0671	1.009	.00321
#2	26.325	-.00071	1.0654	.9998	.00258
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198604-D-3-B Acquired: 6/14/2022 19:30:29 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00092**	**.00183**	**-.00044**	**1.001**
Stddev	.00020	.00005	.00088	.000
%RSD	21.261	2.4775	200.13	.0357
#1	.00078	.00179	.00018	1.001
#2	.00106	.00186	-.00106	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3639.9**	**3445.0**	**70758.**	**5372.5**
Stddev	1.1	4.7	32.	31.3
%RSD	.02928	.13770	.04577	.58307
#1	3640.7	3448.4	70781.	5350.3
#2	3639.2	3441.7	70735.	5394.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.962%	98.525%	97.705%	102.65%
Range				

Sample Name: 480-198604-D-4-B Acquired: 6/14/2022 19:34:19 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.00347**	**.02098**	**.09342**	**.28778**
Stddev	.00045	.00591	.00033	.00008	.00352
%RSD	330.17	170.19	1.5865	.08182	1.2229
#1	.00018	.00765	.02121	.09337	.29027
#2	-.00046	-.00071	.02074	.09348	.28529
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**48.490**	**.00014**	**-.0538**	**-.00002**
Stddev	.00009	.116	.00010	.0130	.00035
%RSD	342.33	.23947	70.431	24.22	2052.0
#1	.00009	48.408	.00022	-.0446	.00023
#2	-.00004	48.572	.00007	-.0630	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**-.00003**	**.37988**	**2.0641**	**.01144**
Stddev	.00000	.00063	.00254	.0075	.00041
%RSD	.52059	2504.2	.66795	.36235	3.5919
#1	-.00034	-.00047	.37809	2.0588	.01173
#2	-.00034	.00042	.38168	2.0694	.01115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198604-D-4-B Acquired: 6/14/2022 19:34:19 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**68.568**	**.02847**	**.00160**	**31.746**	**.00020**
Stddev	.015	.00004	.00001	.023	.00034
%RSD	.02222	.13383	.87417	.07230	169.43
#1	68.579	.02850	.00161	31.730	-.00004
#2	68.557	.02845	.00159	31.762	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00142**	**3.6060**	**-.00258**	**-.00844**
Stddev	.00	.00011	.0022	.00280	.00138
%RSD	.0057	7.8133	.05957	108.37	16.332
#1	25.01	.00135	3.6076	-.00457	-.00746
#2	25.01	.00150	3.6045	-.00060	-.00941
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.1426**	**-.00014**	**2.0669**	**.9993**	**.00011**
Stddev	.0069	.00031	.0033	.0015	.00035
%RSD	.09612	216.72	.15851	.1482	305.38
#1	7.1377	-.00036	2.0646	1.000	.00036
#2	7.1474	.00008	2.0692	.9983	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198604-D-4-B Acquired: 6/14/2022 19:34:19 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00152**	**-.00024**	**-.00126**	**1.000**
Stddev	.00157	.00016	.00084	.000
%RSD	103.19	65.772	67.070	.0146
#1	.00262	-.00013	-.00185	1.000
#2	.00041	-.00035	-.00066	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3485.6**	**3357.6**	**69193.**	**5318.6**
Stddev	5.3	2.3	112.	3.0
%RSD	.15080	.06903	.16257	.05614
#1	3481.8	3359.3	69113.	5320.7
#2	3489.3	3356.0	69272.	5316.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.977%	96.025%	95.543%	101.62%
Range				

Sample Name: 480-198604-D-5-B Acquired: 6/14/2022 19:38:12 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.06111**	**.00228**	**.00613**	**.02936**
Stddev	.00046	.00923	.00270	.00041	.00003
%RSD	232.29	15.112	118.83	6.6864	.09904
#1	.00013	.06764	.00036	.00642	.02933
#2	-.00052	.05458	.00419	.00584	.02938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**89.964**	**.00013**	**-.0800**	**.00007**
Stddev	.00002	.293	.00008	.0123	.00005
%RSD	25.634	.32582	61.288	15.43	72.312
#1	.00007	90.171	.00007	-.0713	.00011
#2	.00005	89.757	.00018	-.0887	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00006**	**.05822**	**.53195**	**.00406**
Stddev	.00020	.00008	.00141	.00837	.00105
%RSD	673.24	138.79	2.4269	1.5743	25.940
#1	.00017	.00011	.05722	.52603	.00480
#2	-.00011	.00000	.05922	.53787	.00331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198604-D-5-B Acquired: 6/14/2022 19:38:12 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.089**	**.01340**	**-.00104**	**5.1251**	**.00060**
Stddev	.053	.00024	.00004	.0082	.00021
%RSD	.37906	1.8233	3.5756	.16068	34.699
#1	14.051	.01323	-.00102	5.1310	.00075
#2	14.126	.01357	-.00107	5.1193	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00222**	**4.2213**	**-.00132**	**-.00469**
Stddev	.00	.00040	.0047	.00207	.00069
%RSD	.0015	18.213	.11198	156.69	14.718
#1	25.02	.00251	4.2246	.00014	-.00420
#2	25.02	.00194	4.2179	-.00278	-.00517
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.0077**	**-.00048**	**.28863**	**1.001**	**.00174**
Stddev	.0148	.00027	.00030	.006	.00001
%RSD	.24710	57.387	.10336	.5758	.49344
#1	5.9972	-.00067	.28884	1.005	.00174
#2	6.0182	-.00028	.28842	.9972	.00175
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198604-D-5-B Acquired: 6/14/2022 19:38:12 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00216**	**.00068**	**-.00111**	**.9997**
Stddev	.00196	.00004	.00091	.0003
%RSD	90.693	6.5542	82.270	.0259
#1	.00354	.00071	-.00176	.9999
#2	.00077	.00065	-.00046	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3612.3**	**3419.7**	**70422.**	**5342.2**
Stddev	.0	.2	187.	39.5
%RSD	.00120	.00706	.26597	.74005
#1	3612.3	3419.9	70554.	5314.3
#2	3612.3	3419.5	70290.	5370.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.249%	97.800%	97.241%	102.08%
Range				

Sample Name: 480-198552-D-1-B Acquired: 6/14/2022 19:42:03 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.02252**	**.00224**	**.05212**	**.09159**
Stddev	.00035	.00546	.00250	.00007	.00003
%RSD	64.326	24.230	111.55	.13994	.02802
#1	-.00078	.02638	.00401	.05206	.09161
#2	-.00029	.01866	.00047	.05217	.09157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**95.833**	**.00021**	**-.0142**	**-.00001**
Stddev	.00005	.442	.00004	.0129	.00012
%RSD	124.11	.46111	20.568	91.07	844.61
#1	.00008	96.145	.00024	-.0234	.00007
#2	.00001	95.520	.00018	-.0051	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00255**	**.00397**	**2.2898**	**.02368**
Stddev	.00047	.00043	.00090	.0056	.00044
%RSD	814.40	16.929	22.746	.24218	1.8660
#1	.00039	.00285	.00333	2.2859	.02399
#2	-.00028	.00224	.00460	2.2937	.02337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198552-D-1-B Acquired: 6/14/2022 19:42:03 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**78.058**	**.00345**	**.00276**	**74.121**	**.00071**
Stddev	.057	.00012	.00004	.568	.00027
%RSD	.07363	3.5046	1.3148	.76596	38.361
#1	78.099	.00336	.00273	74.523	.00091
#2	78.018	.00353	.00279	73.720	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00298**	**52.791**	**.00115**	**-.00271**
Stddev	.00	.00020	.031	.00051	.00261
%RSD	.0009	6.7730	.05879	43.978	96.397
#1	25.01	.00312	52.813	.00151	-.00086
#2	25.01	.00283	52.769	.00079	-.00456
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.8754**	**-.00018**	**1.2155**	**1.001**	**.00030**
Stddev	.0279	.00018	.0071	.002	.00015
%RSD	.35428	101.89	.58410	.2228	49.543
#1	7.8952	-.00005	1.2205	1.002	.00020
#2	7.8557	-.00031	1.2104	.9993	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198552-D-1-B Acquired: 6/14/2022 19:42:03 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00281**	**.00118**	**.00681**	**1.000**
Stddev	.00060	.00010	.00015	.001
%RSD	21.424	8.7007	2.2542	.0947
#1	.00323	.00111	.00692	1.001
#2	.00238	.00126	.00670	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3400.9**	**3315.9**	**68652.**	**5210.8**
Stddev	7.4	7.5	63.	10.9
%RSD	.21798	.22574	.09107	.20928
#1	3395.7	3310.6	68607.	5203.1
#2	3406.1	3321.2	68696.	5218.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.792%	94.832%	94.796%	99.565%
Range				

Sample Name: CCV-7032336 Acquired: 6/14/2022 19:45:54 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0200**	**50.818**	**1.0130**	**1.0425**	**1.0092**
Stddev	.0034	.173	.0014	.0043	.0049
%RSD	.32962	.34110	.14080	.40772	.48672
#1	1.0224	50.941	1.0120	1.0395	1.0127
#2	1.0177	50.695	1.0140	1.0455	1.0058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0253**	**50.790**	**1.0228**	**.9050**	**1.0108**
Stddev	.0048	.245	.0004	.0339	.0014
%RSD	.47184	.48276	.03783	3.750	.13492
#1	1.0287	50.963	1.0225	.8810	1.0099
#2	1.0219	50.616	1.0231	.9290	1.0118
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0342**	**1.0245**	**51.564**	**50.510**	**.99274**
Stddev	.0006	.0015	.156	.228	.00500
%RSD	.05332	.14374	.30213	.45085	.50413
#1	1.0346	1.0256	51.674	50.671	.99628
#2	1.0338	1.0235	51.454	50.349	.98920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 19:45:54 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.720**	**1.0274**	**1.0259**	**50.318**	**1.0166**
Stddev	.199	.0024	.0013	.216	.0011
%RSD	.39317	.23439	.13102	.42873	.10819
#1	50.861	1.0291	1.0268	50.470	1.0158
#2	50.579	1.0257	1.0249	50.165	1.0174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.73**	**1.0186**	**25.428**	**1.0153**	**1.0175**
Stddev	.01	.0023	.007	.0030	.0096
%RSD	.0267	.22753	.02848	.29856	.94374
#1	37.72	1.0169	25.422	1.0174	1.0242
#2	37.74	1.0202	25.433	1.0131	1.0107
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.172**	**1.0090**	**1.0141**	**1.517**	**1.0218**
Stddev	.002	.0029	.0040	.001	.0002
%RSD	.01670	.28271	.39715	.0910	.01664
#1	10.171	1.0070	1.0170	1.518	1.0217
#2	10.173	1.0110	1.0113	1.516	1.0219
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 19:45:54 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0283**	**1.0250**	**1.0328**	**1.511**
Stddev	.0002	.0034	.0039	.000
%RSD	.02095	.33525	.37798	.0123
#1	1.0281	1.0274	1.0356	1.511
#2	1.0284	1.0226	1.0300	1.511
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3345.2**	**3333.5**	**67711.**	**5124.8**
Stddev	6.5	1.9	103.	21.4
%RSD	.19440	.05832	.15216	.41803
#1	3349.8	3334.8	67638.	5109.6
#2	3340.6	3332.1	67784.	5139.9

Sample Name: CCB-7026764 Acquired: 6/14/2022 19:49:34 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00177**	**.00255**	**.00093**	**.00004**
Stddev	.00069	.02159	.00048	.00017	.00000
%RSD	695.45	1216.4	18.795	18.625	2.5584
#1	-.00039	.01704	.00289	.00081	.00004
#2	.00058	-.01349	.00222	.00105	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**-.00600**	**-.00011**	**-.0395**	**.00013**
Stddev	.00003	.00343	.00002	.0034	.00016
%RSD	33.077	57.108	18.500	8.689	119.94
#1	.00011	-.00842	-.00012	-.0371	.00024
#2	.00007	-.00358	-.00009	-.0419	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00006**	**-.00010**	**-.03734**	**.00035**
Stddev	.00010	.00002	.00023	.00180	.00031
%RSD	337.51	34.825	242.94	4.8084	87.503
#1	.00004	.00008	-.00026	-.03607	.00013
#2	-.00010	.00005	.00007	-.03861	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 19:49:34 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00287**	**-.00001**	**.00164**	**.00508**	**.00029**
Stddev	.00012	.00005	.00034	.00330	.00018
%RSD	4.1689	315.23	20.925	64.965	61.758
#1	-.00278	.00002	.00139	.00742	.00016
#2	-.00295	-.00005	.00188	.00275	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00085**	**-.00041**	**.00003**	**.00501**
Stddev	.00	.00076	.00055	.00168	.00142
%RSD	.0027	89.723	132.13	4985.9	28.425
#1	25.00	.00031	-.00003	.00122	.00400
#2	25.00	.00139	-.00080	-.00116	.00602
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02636**	**.00096**	**.00012**	**1.004**	**-.00004**
Stddev	.01034	.00006	.00002	.003	.00008
%RSD	39.223	6.1184	16.326	.2705	191.33
#1	-.01905	.00091	.00011	1.002	.00001
#2	-.03368	.00100	.00013	1.005	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 19:49:34 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00210**	**-.00015**	**-.00122**	**.9997**
Stddev	.00098	.00014	.00036	.0010
%RSD	46.773	97.863	29.732	.1004
#1	.00280	-.00025	-.00148	.9990
#2	.00141	-.00004	-.00097	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3897.5**	**3512.1**	**72273.**	**5266.6**
Stddev	5.1	1.9	195.	6.2
%RSD	.13210	.05411	.27047	.11736
#1	3901.1	3513.5	72135.	5271.0
#2	3893.9	3510.8	72411.	5262.3

Sample Name: CCVL-7028546 Acquired: 6/14/2022 19:53:28 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00598**	**.18596**	**.01585**	**.01904**	**.00214**
Stddev	.00014	.00080	.00236	.00001	.00002
%RSD	2.3680	.43273	14.887	.03416	.90452
#1	.00588	.18539	.01752	.01905	.00212
#2	.00608	.18653	.01418	.01904	.00215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00214**	**.50205**	**.00216**	**-.0592**	**.00389**
Stddev	.00002	.00128	.00004	.0341	.00014
%RSD	.78249	.25568	1.9188	57.69	3.6300
#1	.00213	.50114	.00213	-.0350	.00398
#2	.00215	.50296	.00219	-.0833	.00379
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00382**	**.01113**	**.05039**	**.44556**	**.02564**
Stddev	.00000	.00022	.00104	.00641	.00059
%RSD	.09932	1.9648	2.0578	1.4396	2.3044
#1	.00381	.01128	.05113	.44102	.02522
#2	.00382	.01097	.04966	.45009	.02605
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/14/2022 19:53:28 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19288**	**.00344**	**.00944**	**.97067**	**.00971**
Stddev	.00024	.00005	.00014	.00051	.00003
%RSD	.12584	1.3413	1.4720	.05227	.34737
#1	.19305	.00341	.00953	.97031	.00974
#2	.19271	.00348	.00934	.97103	.00969
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01070**	**.18932**	**.01953**	**.02719**
Stddev	.00	.00130	.00217	.00010	.00142
%RSD	.0020	12.110	1.1482	.50960	5.2211
#1	25.00	.00979	.18778	.01946	.02619
#2	25.00	.01162	.19086	.01960	.02820
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46003**	**.00926**	**.00517**	F **1.003**	**.00438**
Stddev	.01867	.00059	.00001	.004	.00029
%RSD	4.0584	6.3799	.23014	.4161	6.6020
#1	.44683	.00968	.00516	1.000	.00418
#2	.47324	.00884	.00518	1.006	.00459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/14/2022 19:53:28 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02170**	**.00497**	**.00966**	F **1.000**
Stddev	.00110	.00005	.00009	.001
%RSD	5.0592	1.0504	.94134	.0625
#1	.02092	.00501	.00959	1.001
#2	.02247	.00494	.00972	1.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3905.6**	**3542.6**	**72800.**	**5306.2**
Stddev	2.4	7.5	5.	17.3
%RSD	.06035	.21286	.00679	.32649
#1	3903.9	3537.3	72804.	5318.5
#2	3907.2	3547.9	72797.	5294.0

Sample Name: 480-198552-D-2-B Acquired: 6/14/2022 19:57:20 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.01345**	**.00394**	**.05362**	**.09305**
Stddev	.00024	.00371	.00050	.00031	.00000
%RSD	223.58	27.593	12.657	.58719	.00387
#1	.00006	.01608	.00429	.05340	.09304
#2	-.00028	.01083	.00359	.05385	.09305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**97.478**	**.00013**	**-.0259**	**-.00013**
Stddev	.00002	.083	.00004	.0418	.00002
%RSD	21.464	.08484	33.557	161.2	18.914
#1	.00006	97.537	.00010	.0036	-.00011
#2	.00009	97.420	.00016	-.0554	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.00153**	**.00187**	**2.2947**	**.02633**
Stddev	.00034	.00021	.00245	.0038	.00005
%RSD	122.40	13.837	130.84	.16397	.17098
#1	-.00004	.00168	.00014	2.2974	.02630
#2	-.00052	.00138	.00360	2.2921	.02636
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198552-D-2-B Acquired: 6/14/2022 19:57:20 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**79.878**	**.00347**	**.00293**	**75.161**	**.00065**
Stddev	.052	.00004	.00010	.454	.00022
%RSD	.06512	1.2497	3.5122	.60345	34.537
#1	79.842	.00350	.00300	74.840	.00049
#2	79.915	.00344	.00285	75.481	.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00233**	**53.865**	**.00107**	**-.00584**
Stddev	.00	.00065	.162	.00185	.00146
%RSD	.0018	27.873	.30103	172.96	24.953
#1	25.01	.00278	53.980	.00238	-.00687
#2	25.01	.00187	53.750	-.00024	-.00481
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.9826**	**.00013**	**1.2333**	**1.004**	**.00032**
Stddev	.0181	.00054	.0001	.000	.00003
%RSD	.22716	410.05	.00411	.0111	9.3828
#1	7.9698	-.00025	1.2333	1.004	.00034
#2	7.9954	.00051	1.2333	1.004	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198552-D-2-B Acquired: 6/14/2022 19:57:20 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00300**	**.00084**	**.00549**	**.9996**
Stddev	.00068	.00031	.00013	.0003
%RSD	22.581	37.160	2.3679	.0284
#1	.00348	.00062	.00559	.9994
#2	.00252	.00106	.00540	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3383.5**	**3313.8**	**68469.**	**5245.0**
Stddev	4.3	2.2	10.	.2
%RSD	.12711	.06642	.01431	.00380
#1	3380.4	3312.2	68476.	5245.2
#2	3386.5	3315.4	68462.	5244.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.342%	94.772%	94.544%	100.22%
Range				

Sample Name: 480-198552-D-3-B Acquired: 6/14/2022 20:01:10 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**.84167**	**.00575**	**.03698**	**.04160**
Stddev	.00019	.00787	.00032	.00022	.00005
%RSD	35.347	.93537	5.6089	.58369	.13202
#1	-.00040	.83610	.00598	.03683	.04163
#2	-.00067	.84724	.00552	.03714	.04156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**70.370**	**.00025**	**-.1314**	**.00038**
Stddev	.00000	.108	.00010	.0974	.00003
%RSD	2.3679	.15332	40.585	74.10	9.1625
#1	.00004	70.447	.00032	-.0626	.00041
#2	.00004	70.294	.00018	-.2003	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00169**	**.00608**	**.68112**	**10.099**	**.00245**
Stddev	.00038	.00025	.00182	.016	.00053
%RSD	22.323	4.0818	.26653	.16038	21.504
#1	.00143	.00625	.68241	10.110	.00283
#2	.00196	.00590	.67984	10.087	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198552-D-3-B Acquired: 6/14/2022 20:01:10 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.489**	**.01119**	**.01680**	**6.2064**	**.00230**
Stddev	.018	.00003	.00005	.0018	.00011
%RSD	.11100	.25934	.27528	.02939	4.6799
#1	16.476	.01117	.01683	6.2077	.00222
#2	16.502	.01121	.01677	6.2051	.00238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.25**	**.00291**	**21.387**	**.00055**	**-.00401**
Stddev	.00	.00014	.024	.00055	.00146
%RSD	.0051	4.9601	.11108	99.932	36.464
#1	25.25	.00280	21.404	.00094	-.00298
#2	25.25	.00301	21.370	.00016	-.00505
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.4075**	**-.00040**	**.43313**	**1.007**	**.02640**
Stddev	.0027	.00069	.00085	.002	.00132
%RSD	.04996	173.16	.19571	.1491	4.9925
#1	5.4094	-.00088	.43373	1.008	.02547
#2	5.4056	.00009	.43253	1.006	.02733
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198552-D-3-B Acquired: 6/14/2022 20:01:10 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00177**	**.00200**	**.00291**	**1.0000**
Stddev	.00088	.00030	.00080	.0002
%RSD	49.442	15.144	27.515	.0204
#1	.00239	.00179	.00348	1.000
#2	.00115	.00222	.00235	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3592.2**	**3406.0**	**70467.**	**5269.6**
Stddev	6.1	.3	47.	.6
%RSD	.16962	.00960	.06669	.01168
#1	3596.5	3406.2	70501.	5269.2
#2	3587.9	3405.8	70434.	5270.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.729%	97.408%	97.304%	100.69%
Range				

Sample Name: 480-198552-D-4-B Acquired: 6/14/2022 20:05:00 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.13328**	**.01400**	**.35899**	**.01706**
Stddev	.00045	.00912	.00145	.00271	.00001
%RSD	178.65	6.8416	10.342	.75428	.07720
#1	-.00007	.13973	.01298	.36090	.01705
#2	.00057	.12684	.01502	.35707	.01707
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**119.02**	**.00025**	**-.0320**	**.00086**
Stddev	.00008	.35	.00008	.0432	.00001
%RSD	51.445	.29042	30.634	135.0	.83638
#1	.00010	119.27	.00020	-.0626	.00087
#2	.00021	118.78	.00030	-.0015	.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**-.00095**	**2.3855**	**4.4486**	**.07495**
Stddev	.00006	.00027	.0074	.0199	.00029
%RSD	20.338	28.639	.30894	.44786	.38754
#1	.00036	-.00076	2.3907	4.4627	.07515
#2	.00027	-.00115	2.3803	4.4345	.07474
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198552-D-4-B Acquired: 6/14/2022 20:05:00 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**183.52**	**.11246**	**.00017**	**76.725**	**.00278**
Stddev	.07	.00045	.00019	.045	.00006
%RSD	.04041	.40239	108.40	.05859	2.2454
#1	183.46	.11214	.00004	76.757	.00283
#2	183.57	.11278	.00031	76.693	.00274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00293**	F **179.21**	**-.00040**	**-.00462**
Stddev	.00	.00065	.54	.00229	.00103
%RSD	.0001	22.016	.29941	569.30	22.309
#1	25.01	.00339	179.59	-.00202	-.00535
#2	25.01	.00248	178.83	.00122	-.00389
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.750**	**.00030**	**6.0653**	**1.001**	**.00676**
Stddev	.051	.00073	.0048	.001	.00295
%RSD	.47170	245.74	.07846	.1246	43.644
#1	10.786	.00081	6.0620	.9998	.00885
#2	10.715	-.00022	6.0687	1.002	.00467
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198552-D-4-B Acquired: 6/14/2022 20:05:00 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00171**	**-.00043**	**.00053**	**.9996**
Stddev	.00093	.00036	.00095	.0000
%RSD	54.443	84.330	180.67	.0021
#1	.00105	-.00017	.00120	.9996
#2	.00237	-.00068	-.00015	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3290.5**	**3251.2**	**67591.**	**5154.7**
Stddev	5.6	7.3	7.	1.4
%RSD	.16868	.22315	.01099	.02781
#1	3286.5	3246.1	67596.	5153.6
#2	3294.4	3256.3	67585.	5155.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.941%	92.981%	93.331%	98.492%
Range				

Sample Name: 480-198552-D-5-B Acquired: 6/14/2022 20:09:00 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.02785**	**.00304**	**.02526**	**.08594**
Stddev	.00076	.01672	.00010	.00068	.00000
%RSD	529.54	60.012	3.3578	2.7073	.00176
#1	-.00039	.01603	.00312	.02478	.08594
#2	.00068	.03967	.00297	.02574	.08594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**64.530**	**.00027**	**-.0203**	**-.00003**
Stddev	.00001	.148	.00012	.0888	.00007
%RSD	25.160	.22902	43.837	436.6	215.58
#1	.00004	64.634	.00036	-.0831	.00002
#2	.00003	64.425	.00019	.0424	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00011**	**.02091**	**2.0406**	**.03039**
Stddev	.00017	.00037	.00060	.0146	.00078
%RSD	226.20	353.70	2.8663	.71541	2.5527
#1	.00019	.00037	.02133	2.0509	.03093
#2	-.00004	-.00016	.02048	2.0302	.02984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198552-D-5-B Acquired: 6/14/2022 20:09:00 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**90.147**	**.00631**	**.00101**	**24.731**	**.00020**
Stddev	.167	.00005	.00033	.004	.00015
%RSD	.18545	.72474	32.958	.01757	77.200
#1	90.029	.00628	.00124	24.734	.00030
#2	90.265	.00634	.00077	24.727	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00152**	**16.822**	**.00052**	**-.00290**
Stddev	.00	.00019	.006	.00116	.00439
%RSD	.0031	12.741	.03606	223.02	151.25
#1	25.01	.00166	16.826	.00133	.00020
#2	25.00	.00138	16.818	-.00030	-.00601
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.5150**	**-.00035**	**.98832**	**1.004**	**.00085**
Stddev	.0208	.00023	.00251	.001	.00003
%RSD	.24475	66.806	.25365	.1015	3.2415
#1	8.5297	-.00018	.99009	1.003	.00083
#2	8.5003	-.00051	.98654	1.005	.00087
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198552-D-5-B Acquired: 6/14/2022 20:09:00 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00298**	**.00052**	**.00072**	**.9997**
Stddev	.00021	.00012	.00069	.0004
%RSD	7.1077	22.943	96.413	.0372
#1	.00313	.00061	.00121	1.000
#2	.00283	.00044	.00023	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3494.6**	**3379.1**	**69855.**	**5292.1**
Stddev	1.5	2.6	78.	1.7
%RSD	.04362	.07834	.11194	.03236
#1	3495.7	3377.2	69910.	5290.9
#2	3493.5	3380.9	69800.	5293.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.210%	96.638%	96.458%	101.12%
Range				

Sample Name: 480-198552-D-6-B Acquired: 6/14/2022 20:12:51 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.01747**	**.00457**	**.38902**	**.12078**
Stddev	.00075	.00668	.00035	.00062	.00008
%RSD	371.16	38.231	7.6085	.16050	.07004
#1	-.00033	.01274	.00432	.38858	.12084
#2	.00073	.02219	.00481	.38947	.12072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**11.902**	**.00007**	**-.0754**	**.00006**
Stddev	.00001	.024	.00002	.0004	.00000
%RSD	35.821	.19775	27.526	.4654	1.1465
#1	-.00003	11.919	.00005	-.0757	.00007
#2	-.00002	11.885	.00008	-.0752	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00016**	**.06178**	**3.5332**	**.15974**
Stddev	.00021	.00004	.00214	.0262	.00136
%RSD	123.65	26.350	3.4607	.74114	.85217
#1	-.00032	.00013	.06027	3.5517	.15878
#2	-.00002	.00019	.06329	3.5146	.16071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198552-D-6-B Acquired: 6/14/2022 20:12:51 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.5270**	**.02244**	**.00118**	**91.468**	**.00036**
Stddev	.0070	.00007	.00010	.266	.00019
%RSD	.12591	.31065	8.7644	.29094	52.555
#1	5.5319	.02239	.00110	91.657	.00049
#2	5.5221	.02248	.00125	91.280	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00133**	**4.1873**	**-.00008**	**-.00121**
Stddev	.00	.00024	.0076	.00104	.00054
%RSD	.0015	17.897	.18078	1305.7	44.626
#1	25.01	.00116	4.1926	.00066	-.00083
#2	25.01	.00150	4.1819	-.00082	-.00160
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.2956**	**.00044**	**1.7460**	**1.002**	**-.00028**
Stddev	.0192	.00029	.0065	.007	.00006
%RSD	.44579	65.597	.37341	.6795	21.281
#1	4.2821	.00065	1.7507	1.006	-.00032
#2	4.3091	.00024	1.7414	.9968	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198552-D-6-B Acquired: 6/14/2022 20:12:51 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00248**	**-.00004**	**-.00104**	**1.000**
Stddev	.00038	.00007	.00042	.001
%RSD	15.258	201.46	40.758	.0872
#1	.00275	-.00009	-.00133	1.001
#2	.00221	.00002	-.00074	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3543.8**	**3392.6**	**69677.**	**5253.1**
Stddev	.6	.5	80.	18.7
%RSD	.01798	.01390	.11423	.35587
#1	3544.2	3392.3	69621.	5239.9
#2	3543.3	3393.0	69734.	5266.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.479%	97.026%	96.213%	100.37%
Range				

Sample Name: 480-198552-D-7-B Acquired: 6/14/2022 20:16:40 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.02175**	**.00411**	**.50466**	**.02586**
Stddev	.00062	.01508	.00099	.00225	.00003
%RSD	148.35	69.329	24.072	.44636	.09728
#1	.00085	.03242	.00341	.50307	.02584
#2	-.00002	.01109	.00481	.50626	.02588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**99.490**	**.00015**	**-.0172**	**-.00027**
Stddev	.00002	.225	.00011	.0028	.00003
%RSD	33.218	.22662	72.265	16.52	9.3924
#1	.00008	99.331	.00022	-.0152	-.00026
#2	.00005	99.649	.00007	-.0192	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00111**	**.01409**	**6.8325**	**.11730**
Stddev	.00008	.00004	.00210	.0181	.00308
%RSD	449.65	3.9014	14.931	.26431	2.6234
#1	.00007	-.00108	.01558	6.8197	.11512
#2	-.00004	-.00114	.01260	6.8453	.11947
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198552-D-7-B Acquired: 6/14/2022 20:16:40 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**60.778**	**.01396**	**.00253**	**66.199**	**.00005**
Stddev	.016	.00005	.00041	.025	.00020
%RSD	.02630	.38565	16.028	.03801	381.67
#1	60.766	.01400	.00281	66.181	.00019
#2	60.789	.01392	.00224	66.217	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00247**	**64.620**	**-.00087**	**-.00675**
Stddev	.00	.00108	.090	.00083	.00058
%RSD	.0025	43.586	.14005	95.636	8.6260
#1	25.00	.00171	64.556	-.00145	-.00716
#2	25.00	.00324	64.684	-.00028	-.00634
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.9557**	**.00041**	F **11.167**	**1.005**	**.00015**
Stddev	.0044	.00060	.009	.004	.00020
%RSD	.06302	145.05	.08028	.3959	134.13
#1	6.9588	-.00001	11.173	1.002	.00029
#2	6.9526	.00084	11.160	1.008	.00001
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-198552-D-7-B Acquired: 6/14/2022 20:16:40 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00126**	**-.00030**	**-.00137**	**.9998**
Stddev	.00101	.00036	.00034	.0010
%RSD	80.323	118.35	24.631	.0980
#1	.00197	-.00005	-.00113	1.001
#2	.00054	-.00056	-.00160	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3401.3**	**3309.1**	**68694.**	**5230.9**
Stddev	.1	5.8	35.	24.9
%RSD	.00149	.17420	.05138	.47609
#1	3401.2	3313.2	68719.	5248.5
#2	3401.3	3305.0	68669.	5213.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.801%	94.637%	94.855%	99.949%
Range				

Sample Name: 620-4843-I-1-E Acquired: 6/14/2022 20:20:36 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**11.480**	**.00302**	**.00839**	**.05273**
Stddev	.00007	.029	.00003	.00012	.00006
%RSD	19.781	.25595	1.1535	1.4046	.11659
#1	-.00042	11.501	.00304	.00831	.05277
#2	-.00032	11.459	.00299	.00847	.05268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**5.2125**	**.00015**	**-.0484**	**.00152**
Stddev	.00011	.0172	.00013	.0046	.00012
%RSD	21.341	.33060	85.212	9.462	7.6549
#1	.00061	5.2247	.00006	-.0517	.00144
#2	.00045	5.2003	.00025	-.0452	.00160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00294**	**.00360**	**4.9924**	**3.0565**	**.00317**
Stddev	.00014	.00046	.0110	.0167	.00110
%RSD	4.8024	12.844	.22069	.54744	34.724
#1	.00304	.00327	5.0002	3.0683	.00239
#2	.00284	.00393	4.9846	3.0447	.00395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4843-I-1-E Acquired: 6/14/2022 20:20:36 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2268**	**.09440**	**-.00158**	**3.3969**	**.00272**
Stddev	.0020	.00042	.00007	.0017	.00026
%RSD	.16568	.44111	4.4208	.05092	9.4727
#1	1.2254	.09469	-.00153	3.3981	.00290
#2	1.2283	.09410	-.00163	3.3957	.00254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.24**	**.00417**	**1.7399**	**.00131**	**-.00048**
Stddev	.00	.00064	.0080	.00299	.00536
%RSD	.0028	15.465	.46084	227.68	1110.0
#1	25.24	.00371	1.7456	-.00080	.00331
#2	25.25	.00462	1.7343	.00342	-.00427
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.803**	**-.00013**	**.02694**	**1.009**	**.45603**
Stddev	.060	.00052	.00027	.004	.00205
%RSD	.50775	390.15	1.0160	.3846	.44858
#1	11.845	.00024	.02714	1.007	.45747
#2	11.760	-.00050	.02675	1.012	.45458
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4843-I-1-E Acquired: 6/14/2022 20:20:36 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00061**	**.00698**	**.01084**	**1.001**
Stddev	.00103	.00022	.00095	.001
%RSD	170.10	3.0956	8.7560	.1261
#1	-.00012	.00683	.01151	1.000
#2	.00134	.00714	.01017	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3810.7**	**3571.1**	**73344.**	**5379.7**
Stddev	2.6	.0	154.	.6
%RSD	.06929	.00022	.21008	.01165
#1	3808.8	3571.1	73235.	5379.3
#2	3812.6	3571.1	73453.	5380.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.370%	102.13%	101.28%	102.79%
Range				

Sample Name: 620-4843-I-2-E Acquired: 6/14/2022 20:24:25 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.18760**	**.00825**	**.45702**	**.19704**
Stddev	.00056	.00458	.00215	.00076	.00008
%RSD	163.92	2.4420	26.030	.16698	.03825
#1	.00005	.18436	.00976	.45648	.19698
#2	-.00074	.19084	.00673	.45756	.19709
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**140.74**	**-.00003**	**-.0439**	**.00073**
Stddev	.00008	.09	.00013	.0232	.00000
%RSD	134.50	.06671	398.21	52.74	.63521
#1	.00012	140.81	.00006	-.0603	.00072
#2	.00000	140.67	-.00012	-.0276	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00200**	**-.00046**	**60.271**	**14.505**	**.00135**
Stddev	.00018	.00009	.129	.021	.00059
%RSD	8.8244	19.418	.21422	.14377	43.836
#1	.00213	-.00040	60.180	14.490	.00176
#2	.00188	-.00052	60.363	14.519	.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4843-I-2-E Acquired: 6/14/2022 20:24:25 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.575**	**.37904**	**.00833**	**10.415**	**.00272**
Stddev	.005	.00071	.00005	.019	.00019
%RSD	.03414	.18715	.61750	.18627	6.9600
#1	15.571	.37853	.00829	10.402	.00285
#2	15.579	.37954	.00837	10.429	.00258
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.16**	**.02425**	**14.956**	**.00506**	**-.00544**
Stddev	.00	.00022	.007	.00040	.00060
%RSD	.0027	.89682	.04378	7.9393	11.094
#1	25.16	.02410	14.952	.00534	-.00587
#2	25.16	.02440	14.961	.00477	-.00502
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.6845**	**.00046**	**.51633**	**1.028**	**.01040**
Stddev	.0051	.00054	.00006	.000	.00025
%RSD	.08927	117.90	.01093	.0225	2.4135
#1	5.6809	.00084	.51637	1.028	.01022
#2	5.6881	.00008	.51629	1.029	.01057
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4843-I-2-E Acquired: 6/14/2022 20:24:25 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00184**	**.00182**	**.19139**	**1.001**
Stddev	.00147	.00005	.00056	.000
%RSD	79.786	2.6319	.29513	.0272
#1	.00288	.00179	.19099	1.001
#2	.00080	.00186	.19178	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3496.1**	**3384.7**	**70055.**	**5263.0**
Stddev	2.0	.7	226.	14.3
%RSD	.05821	.02126	.32231	.27183
#1	3494.6	3385.2	70215.	5252.9
#2	3497.5	3384.2	69895.	5273.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.248%	96.800%	96.734%	100.56%
Range				

Sample Name: 620-4843-I-3-E Acquired: 6/14/2022 20:28:12 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**1.7807**	**.00766**	**.02394**	**.04978**
Stddev	.00001	.0220	.00007	.00005	.00007
%RSD	3.8360	1.2362	.93233	.20906	.13656
#1	.00037	1.7963	.00760	.02397	.04983
#2	.00039	1.7651	.00771	.02390	.04973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**14.093**	**-.00006**	**.0071**	**.00160**
Stddev	.00003	.034	.00017	.0528	.00004
%RSD	17.378	.23969	296.19	742.3	2.2307
#1	.00013	14.117	.00006	-.0302	.00162
#2	.00017	14.069	-.00018	.0445	.00157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00133**	**.00080**	**35.779**	**2.3985**	**.00108**
Stddev	.00026	.00057	.094	.0503	.00127
%RSD	19.917	70.688	.26259	2.0953	117.72
#1	.00114	.00121	35.845	2.4340	.00198
#2	.00151	.00040	35.712	2.3629	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4843-I-3-E Acquired: 6/14/2022 20:28:12 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4655**	**.45081**	**-.00174**	**2.4300**	**.00115**
Stddev	.0000	.00103	.00001	.0187	.00025
%RSD	.00088	.22766	.80336	.77158	22.118
#1	1.4655	.45154	-.00175	2.4432	.00133
#2	1.4655	.45009	-.00173	2.4167	.00097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.08**	**.00347**	**1.2343**	**.00324**	**-.00252**
Stddev	.00	.00010	.0079	.00099	.00124
%RSD	.0048	2.9448	.64211	30.545	48.980
#1	25.09	.00340	1.2287	.00254	-.00340
#2	25.08	.00354	1.2400	.00394	-.00165
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.6231**	**.00026**	**.04857**	**1.019**	**.16255**
Stddev	.0064	.00033	.00008	.003	.00010
%RSD	.09696	128.56	.16541	.2791	.06277
#1	6.6186	.00002	.04863	1.021	.16248
#2	6.6277	.00049	.04852	1.017	.16263
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4843-I-3-E Acquired: 6/14/2022 20:28:12 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00101**	**.00370**	**.00662**	**1.000**
Stddev	.00041	.00017	.00058	.000
%RSD	40.558	4.6401	8.6934	.0026
#1	.00130	.00357	.00621	1.000
#2	.00072	.00382	.00703	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3784.7**	**3523.6**	**72708.**	**5395.3**
Stddev	.9	.6	140.	37.9
%RSD	.02326	.01756	.19210	.70205
#1	3784.1	3524.1	72610.	5368.5
#2	3785.3	3523.2	72807.	5422.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.699%	100.77%	100.40%	103.09%
Range				

Sample Name: CCV-7032336 Acquired: 6/14/2022 20:32:01 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0092**	**49.894**	**.99790**	**1.0264**	**.98361**
Stddev	.0016	.104	.00314	.0007	.00390
%RSD	.15668	.20939	.31436	.06795	.39689
#1	1.0081	49.968	1.0001	1.0269	.98637
#2	1.0104	49.820	.99568	1.0259	.98085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0011**	**49.872**	**1.0070**	**.9539**	**.99863**
Stddev	.0022	.141	.0007	.0113	.00055
%RSD	.21629	.28243	.06625	1.180	.05514
#1	1.0027	49.971	1.0075	.9619	.99902
#2	.99959	49.772	1.0066	.9460	.99824
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0113**	**1.0077**	**50.726**	**49.564**	**.96504**
Stddev	.0034	.0004	.216	.070	.00002
%RSD	.33995	.04456	.42505	.14110	.00199
#1	1.0089	1.0074	50.878	49.613	.96505
#2	1.0138	1.0081	50.573	49.514	.96502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 20:32:01 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.180**	**1.0154**	**1.0034**	**49.099**	**1.0063**
Stddev	.120	.0014	.0013	.147	.0009
%RSD	.23872	.13289	.12662	.29968	.09261
#1	50.095	1.0144	1.0043	49.203	1.0070
#2	50.265	1.0163	1.0025	48.995	1.0056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.58**	**1.0074**	**25.123**	**1.0005**	**1.0016**
Stddev	.01	.0003	.001	.0035	.0066
%RSD	.0314	.03276	.00265	.35268	.66376
#1	37.59	1.0072	25.122	1.0030	1.0063
#2	37.57	1.0077	25.123	.99802	.99687
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9689**	**1.0036**	**.99653**	**1.502**	**1.0044**
Stddev	.0177	.0008	.00300	.007	.0016
%RSD	.17746	.08331	.30147	.4983	.15549
#1	9.9814	1.0031	.99866	1.508	1.0033
#2	9.9564	1.0042	.99441	1.497	1.0055
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 20:32:01 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0145**	**1.0089**	**1.0188**	**1.501**
Stddev	.0029	.0009	.0004	.003
%RSD	.28640	.09264	.03701	.1739
#1	1.0165	1.0082	1.0191	1.503
#2	1.0124	1.0096	1.0186	1.499
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3387.5**	**3393.1**	**68836.**	**5229.2**
Stddev	2.3	.5	114.	20.5
%RSD	.06682	.01464	.16584	.39120
#1	3389.1	3393.5	68917.	5214.8
#2	3385.9	3392.8	68755.	5243.7

Sample Name: CCB-7026764 Acquired: 6/14/2022 20:35:42 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.02539**	**.00325**	**.00101**	**.00005**
Stddev	.00070	.00905	.00021	.00013	.00001
%RSD	314.03	35.656	6.3505	13.293	12.729
#1	-.00027	.03180	.00340	.00092	.00005
#2	.00072	.01899	.00311	.00111	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.00397**	**.00006**	**-.0365**	**.00005**
Stddev	.00002	.00029	.00014	.0369	.00011
%RSD	34.046	7.2576	245.95	101.1	208.03
#1	.00008	-.00377	-.00004	-.0626	-.00002
#2	.00005	-.00417	.00016	-.0104	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.00005**	**.00225**	**-.05334**	**.00022**
Stddev	.00009	.00006	.00159	.04852	.00019
%RSD	24.005	114.66	70.817	90.965	87.646
#1	-.00032	.00001	.00338	-.01903	.00035
#2	-.00045	.00009	.00112	-.08765	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 20:35:42 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**.00003**	**.00126**	**.00076**	**.00028**
Stddev	.00306	.00001	.00034	.00491	.00003
%RSD	336.16	17.333	26.632	647.16	9.7969
#1	-.00125	.00003	.00102	-.00271	.00026
#2	.00308	.00004	.00150	.00423	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00129**	**.00002**	**-.00004**	**.00374**
Stddev	.00	.00043	.00163	.00105	.00469
%RSD	.0031	33.489	7398.3	2392.6	125.49
#1	25.00	.00159	.00118	-.00079	.00042
#2	25.00	.00098	-.00113	.00070	.00705
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02165**	**.00002**	**.00013**	**.9980**	**-.00002**
Stddev	.00618	.00012	.00009	.0037	.00038
%RSD	28.536	486.59	71.792	.3676	2139.6
#1	-.02601	-.00006	.00006	.9954	-.00029
#2	-.01728	.00011	.00019	1.001	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 20:35:42 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00275**	**.00002**	**-.00089**	**.9993**
Stddev	.00017	.00005	.00017	.0002
%RSD	6.0909	350.92	18.934	.0223
#1	.00287	.00005	-.00101	.9995
#2	.00264	-.00002	-.00077	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3865.9**	**3495.2**	**71759.**	**5220.8**
Stddev	2.7	2.1	137.	3.1
%RSD	.06960	.06127	.19097	.05953
#1	3863.9	3493.6	71662.	5218.6
#2	3867.8	3496.7	71856.	5223.0

Sample Name: CCVL-7028546 Acquired: 6/14/2022 20:39:36 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00648**	**.21371**	**.01724**	**.01945**	**.00216**
Stddev	.00050	.01510	.00081	.00010	.00000
%RSD	7.7685	7.0676	4.7264	.51979	.09273
#1	.00684	.22439	.01666	.01938	.00216
#2	.00613	.20303	.01781	.01952	.00216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00211**	**.51070**	**.00202**	**-.0181**	**.00403**
Stddev	.00006	.00728	.00004	.0423	.00005
%RSD	2.7966	1.4263	2.1116	233.8	1.2452
#1	.00215	.51585	.00205	-.0480	.00407
#2	.00207	.50555	.00199	.0118	.00400
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00351**	**.01127**	**.05079**	**.39223**	**.02711**
Stddev	.00052	.00035	.00019	.01106	.00003
%RSD	14.725	3.0900	.36775	2.8187	.09400
#1	.00315	.01102	.05065	.40004	.02713
#2	.00388	.01151	.05092	.38441	.02709
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/14/2022 20:39:36 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19377**	**.00352**	**.00922**	**.97824**	**.00975**
Stddev	.00214	.00009	.00021	.00716	.00013
%RSD	1.1036	2.6203	2.2520	.73187	1.3577
#1	.19528	.00358	.00907	.98331	.00966
#2	.19225	.00345	.00937	.97318	.00984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01081**	**.19427**	**.01778**	**.02524**
Stddev	.00	.00078	.00575	.00186	.00222
%RSD	.0075	7.2226	2.9576	10.454	8.7845
#1	25.00	.01136	.19021	.01909	.02681
#2	25.00	.01025	.19834	.01646	.02367
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46013**	**.00980**	**.00509**	F **1.003**	**.00428**
Stddev	.00837	.00022	.00001	.004	.00006
%RSD	1.8201	2.2467	.23453	.4080	1.3682
#1	.45421	.00964	.00509	1.006	.00423
#2	.46605	.00995	.00508	1.000	.00432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/14/2022 20:39:36 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	.02094	.00485	.00941	F 1.001
Stddev	.00044	.00039	.00009	.000
%RSD	2.0778	8.1205	.96174	.0280
#1	.02125	.00512	.00948	1.001
#2	.02063	.00457	.00935	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3883.1	3516.2	72289.	5247.5
Stddev	3.8	4.2	78.	19.7
%RSD	.09710	.11865	.10836	.37498
#1	3880.4	3513.3	72234.	5233.6
#2	3885.8	3519.2	72345.	5261.4

Sample Name: 620-4843-I-4-E Acquired: 6/14/2022 20:43:29 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00074**	**.22566**	**.00657**	**.06064**	**.06869**
Stddev	.00024	.01980	.00129	.00018	.00007
%RSD	32.747	8.7741	19.645	.29099	.10415
#1	-.00057	.23966	.00566	.06052	.06864
#2	-.00091	.21166	.00748	.06077	.06874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**27.117**	**-.00013**	**-.1208**	**.00057**
Stddev	.00001	.085	.00000	.0017	.00010
%RSD	44.014	.31465	2.0590	1.389	17.330
#1	.00002	27.057	-.00013	-.1196	.00064
#2	.00004	27.177	-.00013	-.1220	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**-.00087**	**38.335**	**3.6687**	**.00061**
Stddev	.00051	.00053	.083	.0139	.00005
%RSD	152.21	61.426	.21705	.37896	8.7185
#1	-.00003	-.00125	38.277	3.6785	.00057
#2	.00069	-.00049	38.394	3.6589	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4843-I-4-E Acquired: 6/14/2022 20:43:29 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6888**	**.45029**	**-.00150**	**3.1943**	**.00036**
Stddev	.0051	.00033	.00007	.0090	.00032
%RSD	.30260	.07246	4.5873	.28190	86.633
#1	1.6851	.45006	-.00145	3.1879	.00014
#2	1.6924	.45052	-.00155	3.2006	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00327**	**1.3637**	**.00347**	**.00154**
Stddev	.00	.00027	.0050	.00003	.00329
%RSD	.0028	8.1793	.36473	.93321	213.73
#1	25.02	.00308	1.3602	.00345	-.00079
#2	25.02	.00346	1.3673	.00349	.00387
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.4194**	**.00055**	**.10135**	**1.022**	**.01623**
Stddev	.0160	.00025	.00017	.002	.00019
%RSD	.29620	46.220	.17072	.1947	1.1799
#1	5.4307	.00073	.10123	1.024	.01636
#2	5.4080	.00037	.10148	1.021	.01609
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4843-I-4-E Acquired: 6/14/2022 20:43:29 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00088**	**.00099**	**.00195**	**1.001**
Stddev	.00093	.00048	.00078	.000
%RSD	105.93	48.377	40.016	.0061
#1	.00154	.00065	.00140	1.001
#2	.00022	.00133	.00250	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3736.3**	**3470.7**	**71836.**	**5273.2**
Stddev	2.7	1.1	12.	16.0
%RSD	.07345	.03129	.01669	.30270
#1	3734.4	3471.4	71845.	5284.5
#2	3738.2	3469.9	71828.	5261.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.450%	99.258%	99.194%	100.76%
Range				

Sample Name: 620-4843-I-5-E Acquired: 6/14/2022 20:47:17 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00100**	**46.652**	**.00885**	**.01012**	**.30799**
Stddev	.00025	.162	.00119	.00024	.00023
%RSD	24.722	.34673	13.467	2.3288	.07481
#1	-.00117	46.767	.00970	.01029	.30783
#2	-.00082	46.538	.00801	.00995	.30816
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00165**	**16.019**	**.00011**	**.0108**	**.01648**
Stddev	.00009	.041	.00015	.0011	.00018
%RSD	5.2350	.25297	135.52	10.60	1.1121
#1	.00171	16.047	.00000	.0100	.01635
#2	.00159	15.990	.00022	.0116	.01661
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02951**	**.02341**	**51.260**	**10.134**	**.03167**
Stddev	.00008	.00016	.407	.042	.00091
%RSD	.25459	.66328	.79416	.41365	2.8787
#1	.02945	.02330	51.548	10.164	.03102
#2	.02956	.02352	50.972	10.105	.03231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4843-I-5-E Acquired: 6/14/2022 20:47:17 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.382**	**.85536**	**-.00103**	**6.6782**	**.02127**
Stddev	.045	.00201	.00004	.0282	.00017
%RSD	.39209	.23464	4.2031	.42248	.79045
#1	11.350	.85394	-.00106	6.6981	.02115
#2	11.413	.85678	-.00100	6.6582	.02138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.36**	**.02295**	**1.3439**	**.00255**	**.00203**
Stddev	.00	.00129	.0075	.00031	.00210
%RSD	.0057	5.6016	.55862	11.982	103.47
#1	26.36	.02204	1.3386	.00277	.00351
#2	26.36	.02386	1.3492	.00234	.00054
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.460**	**.00133**	**.07144**	**1.038**	**4.7950**
Stddev	.074	.00006	.00018	.002	.0139
%RSD	.16315	4.8367	.25207	.2342	.28942
#1	45.512	.00137	.07157	1.036	4.8048
#2	45.407	.00128	.07131	1.039	4.7852
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4843-I-5-E Acquired: 6/14/2022 20:47:17 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00256**	**.07057**	**.10758**	**1.006**
Stddev	.00029	.00024	.00036	.001
%RSD	11.464	.34200	.33079	.0455
#1	-.00277	.07040	.10732	1.006
#2	-.00236	.07074	.10783	1.006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3660.2**	**3745.2**	**77083.**	**5728.8**
Stddev	.2	1.7	217.	25.9
%RSD	.00513	.04432	.28161	.45254
#1	3660.1	3746.4	77236.	5710.5
#2	3660.4	3744.1	76929.	5747.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.486%	107.11%	106.44%	109.46%
Range				

Sample Name: MB 480-629880/1-A Acquired: 6/14/2022 20:51:09 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.01329**	**.00313**	**.00038**	**.00004**
Stddev	.00033	.00619	.00063	.00020	.00001
%RSD	365.91	46.565	20.132	51.910	34.551
#1	-.00014	.01767	.00269	.00024	.00003
#2	.00033	.00892	.00358	.00052	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.02956**	**.00001**	**-.0584**	**.00015**
Stddev	.00003	.00068	.00001	.0404	.00009
%RSD	17.943	2.3070	120.01	69.14	63.595
#1	.00013	.02908	.00000	-.0299	.00022
#2	.00017	.03004	.00002	-.0870	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.00014**	**.00324**	**-.04008**	**.00017**
Stddev	.00014	.00019	.00042	.03937	.00102
%RSD	33.799	134.41	13.093	98.249	593.31
#1	-.00051	.00001	.00294	-.06792	-.00055
#2	-.00031	.00028	.00354	-.01223	.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629880/1-A Acquired: 6/14/2022 20:51:09 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00115**	**-.00011**	**-.00145**	**.03951**	**.00036**
Stddev	.00102	.00008	.00002	.00195	.00010
%RSD	89.235	70.714	1.6948	4.9331	29.120
#1	.00187	-.00016	-.00147	.03813	.00028
#2	.00042	-.00005	-.00143	.04089	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00073**	**.02316**	**.00037**	**-.00086**
Stddev	.00	.00055	.00124	.00097	.00326
%RSD	.0015	75.549	5.3397	261.31	379.74
#1	25.00	.00034	.02403	.00106	.00145
#2	25.00	.00112	.02228	-.00031	-.00317
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01368**	**-.00027**	**.00024**	**1.004**	**.00047**
Stddev	.00138	.00034	.00009	.006	.00032
%RSD	10.111	125.48	35.954	.6398	69.180
#1	-.01465	-.00003	.00030	.9992	.00024
#2	-.01270	-.00051	.00018	1.008	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629880/1-A Acquired: 6/14/2022 20:51:09 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00195**	**.00011**	**-.00130**	**1.000**
Stddev	.00023	.00001	.00019	.001
%RSD	11.863	10.005	14.854	.0658
#1	.00211	.00010	-.00144	.9997
#2	.00178	.00012	-.00116	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3909.6**	**3548.6**	**73451.**	**5338.1**
Stddev	.5	.6	39.	14.2
%RSD	.01406	.01754	.05292	.26613
#1	3910.0	3549.0	73424.	5328.0
#2	3909.2	3548.1	73479.	5348.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.92%	101.49%	101.42%	102.00%
Range				

Sample Name: LCS 480-629880/2-A Acquired: 6/14/2022 20:55:03 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05094**	**9.6744**	**.20378**	**.19013**	**.20196**
Stddev	.00019	.0083	.00006	.00078	.00011
%RSD	.37204	.08524	.02768	.40768	.05691
#1	.05081	9.6803	.20382	.19068	.20188
#2	.05107	9.6686	.20374	.18958	.20205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21099**	**10.449**	**.20207**	**-.0459**	**.20254**
Stddev	.00004	.022	.00002	.0789	.00041
%RSD	.01684	.20842	.00859	172.0	.20124
#1	.21101	10.433	.20205	-.1016	.20283
#2	.21096	10.464	.20208	.0099	.20226
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20427**	**.20847**	**10.443**	**9.3279**	**.18509**
Stddev	.00067	.00051	.013	.0144	.00083
%RSD	.32807	.24674	.12566	.15429	.44738
#1	.20380	.20884	10.433	9.3177	.18568
#2	.20475	.20811	10.452	9.3381	.18451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629880/2-A Acquired: 6/14/2022 20:55:03 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.569**	**.20855**	**.20705**	**9.2577**	**.19760**
Stddev	.018	.00074	.00032	.0168	.00041
%RSD	.16565	.35346	.15229	.18127	.20856
#1	10.557	.20803	.20728	9.2458	.19789
#2	10.581	.20908	.20683	9.2696	.19731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.20158**	**9.9570**	**.21070**	**.19847**
Stddev	.00	.00005	.0086	.00197	.00622
%RSD	.0019	.02484	.08663	.93280	3.1364
#1	25.00	.20161	9.9509	.21209	.19407
#2	25.00	.20154	9.9631	.20931	.20287
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8479**	F **.25066**	**.19282**	**1.008**	**.20640**
Stddev	.0428	.00061	.00038	.002	.00072
%RSD	.43427	.24484	.19654	.2150	.34643
#1	9.8176	.25109	.19255	1.010	.20589
#2	9.8781	.25023	.19309	1.007	.20691
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: LCS 480-629880/2-A Acquired: 6/14/2022 20:55:03 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20706**	**.20217**	**.20618**	**1.001**
Stddev	.00088	.00001	.00048	.000
%RSD	.42383	.00451	.23224	.0160
#1	.20768	.20216	.20652	1.001
#2	.20644	.20218	.20584	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3647.3**	**3444.5**	**70684.**	**5251.7**
Stddev	6.5	4.4	326.	19.1
%RSD	.17776	.12630	.46066	.36439
#1	3642.7	3441.5	70914.	5265.2
#2	3651.9	3447.6	70454.	5238.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.153%	98.510%	97.603%	100.35%
Range				

Sample Name: 480-198882-C-1-B Acquired: 6/14/2022 20:58:44 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00287**	**.35165**	**.00436**	**.03506**	**.07568**
Stddev	.00018	.01225	.00017	.00014	.00016
%RSD	6.1401	3.4831	3.9483	.39062	.20715
#1	.00274	.34299	.00424	.03516	.07557
#2	.00299	.36031	.00448	.03496	.07579
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**6.2341**	**.00038**	**-.1482**	**.00027**
Stddev	.00005	.0272	.00016	.0408	.00003
%RSD	153.95	.43600	43.243	27.53	12.458
#1	-.00006	6.2534	.00026	-.1770	.00030
#2	.00000	6.2149	.00049	-.1193	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00569**	**.02488**	**.36028**	**7.7767**	**.00555**
Stddev	.00051	.00077	.00330	.0190	.00217
%RSD	8.9774	3.1052	.91682	.24376	39.012
#1	.00533	.02542	.36262	7.7633	.00708
#2	.00605	.02433	.35795	7.7901	.00402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198882-C-1-B Acquired: 6/14/2022 20:58:44 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6768**	**.01626**	**.00014**	**287.96**	**.00486**
Stddev	.0019	.00002	.00011	.19	.00049
%RSD	.11594	.11887	82.230	.06519	10.135
#1	1.6754	.01625	.00022	288.10	.00521
#2	1.6781	.01628	.00006	287.83	.00451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.32**	**.00816**	**15.864**	**.01646**	**-.00460**
Stddev	.01	.00026	.001	.00124	.00094
%RSD	.0180	3.1976	.00315	7.5198	20.384
#1	29.33	.00798	15.865	.01558	-.00526
#2	29.32	.00835	15.864	.01733	-.00394
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.3774**	**.07011**	**.08927**	**1.004**	**.02454**
Stddev	.0239	.00023	.00047	.003	.00043
%RSD	.28514	.32358	.53014	.3207	1.7621
#1	8.3943	.07027	.08961	1.006	.02485
#2	8.3605	.06995	.08894	1.002	.02424
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198882-C-1-B Acquired: 6/14/2022 20:58:44 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00188**	**.00025**	**1.0120**	**1.012**
Stddev	.00024	.00014	.0029	.000
%RSD	12.929	57.086	.28918	.0302
#1	.00171	.00015	1.0141	1.012
#2	.00205	.00035	1.0099	1.012
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3322.7**	**3299.4**	**67091.**	**5258.3**
Stddev	9.5	7.2	133.	6.1
%RSD	.28513	.21690	.19802	.11659
#1	3316.0	3294.3	67185.	5254.0
#2	3329.4	3304.4	66997.	5262.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.772%	94.359%	92.641%	100.47%
Range				

Sample Name: 480-198882-C-1-Bsd@5 Acquired: 6/14/2022 21:02:37 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00121**	**.07725**	**.00118**	**.00702**	**.01574**
Stddev	.00051	.02508	.00074	.00034	.00003
%RSD	42.586	32.459	62.326	4.8607	.16419
#1	.00084	.09499	.00170	.00678	.01573
#2	.00157	.05952	.00066	.00726	.01576
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**1.2783**	**-.00002**	**-.0355**	**.00003**
Stddev	.00012	.0032	.00007	.0515	.00014
%RSD	3816.7	.24817	344.80	145.0	471.17
#1	.00009	1.2806	.00003	-.0719	.00013
#2	-.00008	1.2761	-.00007	.0009	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.00532**	**.07008**	**1.4836**	**.00173**
Stddev	.00034	.00040	.00095	.0303	.00035
%RSD	61.879	7.4784	1.3556	2.0421	20.425
#1	.00079	.00560	.07075	1.4622	.00148
#2	.00031	.00504	.06941	1.5051	.00198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198882-C-1-Bsd@5 Acquired: 6/14/2022 21:02:37 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Na8183
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.34202**	**.00317**	**-.00113**	**55.504**	**58.057**
Stddev	.00247	.00000	.00015	.070	.053
%RSD	.72239	.04721	13.495	.12549	.09180
#1	.34027	.00317	-.00124	55.553	58.019
#2	.34377	.00317	-.00102	55.454	58.094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Line	231.604 {446}	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}
IS Ref	(In2306)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00105**	**25.84**	**.00111**	**3.0352**	**.00325**
Stddev	.00005	.00	.00055	.0021	.00057
%RSD	4.7940	.0086	49.527	.06843	17.673
#1	.00101	25.84	.00150	3.0367	.00285
#2	.00108	25.84	.00072	3.0337	.00366
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837
Line	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**1.6377**	**.01338**	**.01811**	**1.008**
Stddev	.00184	.0045	.00002	.00007	.003
%RSD	844.18	.27627	.15599	.40755	.3156
#1	.00109	1.6346	.01336	.01806	1.005
#2	-.00152	1.6409	.01339	.01817	1.010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Sample Name: 480-198882-C-1-Bsd@5 Acquired: 6/14/2022 21:02:37 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	TI1908	V_2924	Zn2062	Zr3438
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00549**	**.00119**	**-.00012**	**.19943**	**1.002**
Stddev	.00043	.00115	.00023	.00070	.001
%RSD	7.8874	96.530	183.92	.35162	.0814
#1	.00580	.00200	.00004	.19993	1.001
#2	.00518	.00038	-.00029	.19894	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3631.9**	**3437.1**	**70488.**	**5276.4**
Stddev	3.6	1.0	77.	14.9
%RSD	.09964	.02985	.10886	.28170
#1	3634.4	3437.8	70542.	5265.9
#2	3629.3	3436.4	70434.	5286.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.754%	98.298%	97.332%	100.82%
Range				

Sample Name: 480-198882-C-1-BPDS Acquired: 6/14/2022 21:06:27 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05614**	**10.882**	**.22079**	**.24345**	**.28779**
Stddev	.00019	.027	.00097	.00033	.00075
%RSD	.34392	.24652	.44108	.13680	.26207
#1	.05600	10.863	.22010	.24321	.28832
#2	.05627	10.901	.22147	.24368	.28726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22190**	**16.477**	**.21379**	**-.1116**	**.21932**
Stddev	.00003	.038	.00010	.0375	.00062
%RSD	.01261	.23301	.04488	33.60	.28159
#1	.22192	16.504	.21386	-.0851	.21888
#2	.22188	16.450	.21372	-.1382	.21975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22124**	**.24451**	**10.959**	**18.195**	**.21385**
Stddev	.00065	.00097	.006	.013	.00041
%RSD	.29495	.39804	.05024	.07346	.19247
#1	.22170	.24520	10.955	18.204	.21356
#2	.22078	.24383	10.963	18.186	.21414
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198882-C-1-BPDS Acquired: 6/14/2022 21:06:27 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.217**	**.23445**	**.21610**	**287.82**	**.21816**
Stddev	.026	.00036	.00086	.99	.00017
%RSD	.21055	.15534	.39976	.34465	.07582
#1	12.235	.23470	.21671	288.52	.21804
#2	12.199	.23419	.21549	287.12	.21827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.13**	**.22245**	**25.734**	**.24263**	**.20944**
Stddev	.00	.00016	.017	.00261	.00123
%RSD	.0039	.07085	.06611	1.0749	.58607
#1	29.13	.22256	25.722	.24079	.21031
#2	29.13	.22234	25.746	.24448	.20857
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.425**	**.28230**	**.29713**	**1.005**	**.23849**
Stddev	.031	.00019	.00085	.006	.00022
%RSD	.17052	.06630	.28468	.5631	.09139
#1	18.447	.28217	.29773	1.009	.23865
#2	18.402	.28243	.29653	1.001	.23834
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198882-C-1-BPDS Acquired: 6/14/2022 21:06:27 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21076**	**.21290**	**1.1714**	**1.012**
Stddev	.00081	.00061	.0016	.000
%RSD	.38549	.28666	.13820	.0294
#1	.21019	.21334	1.1726	1.012
#2	.21133	.21247	1.1703	1.013
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3300.7**	**3314.2**	**67537.**	**5261.0**
Stddev	3.0	1.4	51.	.3
%RSD	.09130	.04082	.07591	.00579
#1	3302.8	3313.3	67501.	5260.8
#2	3298.5	3315.2	67573.	5261.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.204%	94.784%	93.257%	100.52%
Range				

Sample Name: 480-198882-C-1-C MS Acquired: 6/14/2022 21:10:12 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05423**	**10.122**	**.21192**	**.23048**	**.27777**
Stddev	.00002	.019	.00117	.00065	.00056
%RSD	.03255	.18971	.55428	.28237	.20076
#1	.05422	10.108	.21109	.23002	.27817
#2	.05424	10.135	.21275	.23094	.27738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21471**	**16.557**	**.20679**	**-.1275**	**.21278**
Stddev	.00064	.091	.00008	.0550	.00048
%RSD	.29578	.54751	.03978	43.17	.22595
#1	.21516	16.621	.20684	-.0886	.21244
#2	.21426	16.493	.20673	-.1664	.21312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21127**	**.23903**	**10.743**	**18.094**	**.20213**
Stddev	.00012	.00143	.023	.040	.00158
%RSD	.05655	.59994	.21701	.21901	.78086
#1	.21118	.24005	10.759	18.122	.20324
#2	.21135	.23802	10.726	18.066	.20101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198882-C-1-C MS Acquired: 6/14/2022 21:10:12 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.949**	**.22344**	**.21046**	**306.08**	**.21107**
Stddev	.019	.00070	.00040	1.41	.00061
%RSD	.15525	.31467	.18831	.45951	.28951
#1	11.962	.22393	.21074	307.07	.21063
#2	11.936	.22294	.21018	305.08	.21150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.41**	**.21581**	**26.276**	**.23209**	**.20374**
Stddev	.00	.00078	.007	.00166	.00255
%RSD	.0128	.35946	.02683	.71421	1.2494
#1	29.41	.21526	26.281	.23092	.20554
#2	29.40	.21636	26.271	.23326	.20194
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.600**	**.33701**	**.28628**	**1.008**	**.23323**
Stddev	.093	.00057	.00084	.006	.00193
%RSD	.50145	.16883	.29201	.6033	.82895
#1	18.666	.33661	.28687	1.012	.23186
#2	18.534	.33742	.28569	1.004	.23460
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198882-C-1-C MS Acquired: 6/14/2022 21:10:12 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19526**	**.20632**	**1.2290**	**1.014**
Stddev	.00065	.00060	.0006	.001
%RSD	.33452	.29082	.04582	.0445
#1	.19573	.20675	1.2286	1.013
#2	.19480	.20590	1.2294	1.014
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3280.3**	**3299.3**	**67237.**	**5247.3**
Stddev	8.7	1.8	165.	32.7
%RSD	.26551	.05433	.24548	.62326
#1	3286.4	3300.6	67120.	5224.1
#2	3274.1	3298.1	67353.	5270.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.678%	94.358%	92.842%	100.26%
Range				

Sample Name: 480-198882-C-1-D MSD Acquired: 6/14/2022 21:13:57 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05383**	**10.092**	**.21274**	**.23035**	**.27722**
Stddev	.00007	.013	.00381	.00059	.00057
%RSD	.12556	.12447	1.7913	.25559	.20717
#1	.05387	10.083	.21543	.22994	.27763
#2	.05378	10.101	.21004	.23077	.27682
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21064**	**16.313**	**.20348**	**-.1041**	**.20960**
Stddev	.00032	.024	.00042	.0404	.00040
%RSD	.15347	.14571	.20426	38.78	.19301
#1	.21041	16.296	.20377	-.0755	.20931
#2	.21087	16.330	.20319	-.1326	.20989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20863**	**.23475**	**10.564**	**18.152**	**.20243**
Stddev	.00042	.00169	.015	.039	.00147
%RSD	.19938	.72082	.14651	.21565	.72548
#1	.20834	.23595	10.553	18.124	.20347
#2	.20893	.23355	10.575	18.180	.20139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198882-C-1-D MSD Acquired: 6/14/2022 21:13:57 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.844**	**.22058**	**.20688**	**302.52**	**.20845**
Stddev	.025	.00024	.00096	.20	.00004
%RSD	.21349	.10895	.46331	.06725	.02070
#1	11.862	.22075	.20756	302.37	.20848
#2	11.826	.22041	.20621	302.66	.20842
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.40**	**.21413**	**26.407**	**.22891**	**.20364**
Stddev	.00	.00076	.039	.00184	.00177
%RSD	.0136	.35435	.14938	.80341	.87091
#1	29.40	.21466	26.435	.23021	.20490
#2	29.39	.21359	26.379	.22761	.20239
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.050**	**.33573**	**.28641**	**1.003**	**.22479**
Stddev	.062	.00061	.00092	.003	.00004
%RSD	.34167	.18041	.31947	.2966	.01987
#1	18.006	.33616	.28577	1.001	.22476
#2	18.093	.33530	.28706	1.005	.22482
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198882-C-1-D MSD Acquired: 6/14/2022 21:13:57 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19448**	**.20374**	**1.2248**	**1.013**
Stddev	.00173	.00019	.0009	.000
%RSD	.89188	.09298	.07153	.0323
#1	.19571	.20388	1.2242	1.013
#2	.19325	.20361	1.2254	1.012
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3294.4**	**3314.9**	**67326.**	**5278.0**
Stddev	.3	4.2	30.	14.7
%RSD	.00933	.12692	.04485	.27896
#1	3294.6	3311.9	67305.	5288.4
#2	3294.2	3317.9	67348.	5267.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.042%	94.803%	92.966%	100.85%
Range				

Sample Name: CCV-7032336 Acquired: 6/14/2022 21:17:42 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0132**	**50.304**	**.99342**	**1.0285**	**.98978**
Stddev	.0036	.181	.00299	.0008	.00372
%RSD	.35957	.36075	.30088	.07303	.37556
#1	1.0106	50.176	.99553	1.0290	.98715
#2	1.0157	50.433	.99131	1.0279	.99241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99929**	**50.467**	**1.0090**	**.9592**	**.99778**
Stddev	.00317	.208	.0009	.0474	.00079
%RSD	.31685	.41175	.08895	4.942	.07944
#1	.99706	50.320	1.0097	.9257	.99722
#2	1.0015	50.614	1.0084	.9927	.99834
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99450**	**.99348**	**50.423**	**49.408**	**.96838**
Stddev	.00058	.00304	.132	.141	.00763
%RSD	.05871	.30646	.26106	.28609	.78788
#1	.99492	.99132	50.330	49.308	.96298
#2	.99409	.99563	50.516	49.508	.97377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 21:17:42 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.497**	**1.0056**	**.99902**	**49.041**	**.99708**
Stddev	.057	.0009	.00159	.146	.00109
%RSD	.11380	.09153	.15951	.29789	.10944
#1	50.456	1.0049	1.0001	48.938	.99631
#2	50.537	1.0062	.99789	49.144	.99786
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.60**	**1.0023**	**24.958**	**1.0074**	**.98870**
Stddev	.01	.0013	.002	.0005	.00160
%RSD	.0253	.12479	.00917	.04973	.16153
#1	37.61	1.0015	24.959	1.0078	.98983
#2	37.59	1.0032	24.956	1.0070	.98757
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.101**	**.99830**	**.99396**	**1.507**	**.99355**
Stddev	.070	.00099	.00157	.005	.00055
%RSD	.68894	.09926	.15824	.3656	.05494
#1	10.051	.99900	.99285	1.503	.99317
#2	10.150	.99760	.99507	1.511	.99394
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 21:17:42 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0091**	**.99763**	**1.0245**	**1.497**
Stddev	.0003	.00179	.0013	.004
%RSD	.03232	.17966	.12657	.2405
#1	1.0089	.99636	1.0254	1.494
#2	1.0094	.99890	1.0236	1.499
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3390.9**	**3392.9**	**68902.**	**5180.9**
Stddev	4.6	2.8	34.	31.8
%RSD	.13646	.08165	.04970	.61326
#1	3394.2	3394.8	68927.	5203.3
#2	3387.6	3390.9	68878.	5158.4

Sample Name: CCB-7026764 Acquired: 6/14/2022 21:21:22 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.01699**	**.00487**	**.00096**	**.00007**
Stddev	.00041	.01661	.00225	.00015	.00002
%RSD	291.72	97.771	46.112	15.673	24.189
#1	-.00043	.00524	.00646	.00086	.00006
#2	.00015	.02873	.00329	.00107	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.00352**	**.00011**	**-.0197**	**.00011**
Stddev	.00006	.00247	.00002	.0352	.00033
%RSD	88.892	70.238	21.817	179.2	289.20
#1	.00010	-.00527	.00009	-.0446	.00035
#2	.00002	-.00177	.00012	.0053	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00011**	**.00207**	**.01003**	**-.00028**
Stddev	.00009	.00080	.00301	.00749	.00092
%RSD	40.984	718.45	145.08	74.719	326.70
#1	-.00027	.00068	-.00005	.01532	.00037
#2	-.00015	-.00045	.00420	.00473	-.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 21:21:22 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00186**	**-.00003**	**.00106**	**.03702**	**.00015**
Stddev	.00318	.00000	.00041	.00406	.00006
%RSD	170.93	13.530	38.899	10.956	42.380
#1	-.00039	-.00003	.00077	.03415	.00010
#2	.00411	-.00002	.00135	.03989	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00040**	**-.00364**	**-.00062**	**.00367**
Stddev	.00	.00108	.00033	.00019	.00549
%RSD	.0019	270.42	9.0028	30.562	149.44
#1	25.00	.00116	-.00387	-.00048	.00756
#2	25.01	-.00036	-.00341	-.00075	-.00021
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00715**	**.00064**	**.00006**	**1.003**	**-.00024**
Stddev	.00733	.00004	.00005	.000	.00017
%RSD	102.49	6.3500	89.208	.0356	69.918
#1	-.00197	.00066	.00002	1.003	-.00036
#2	-.01233	.00061	.00010	1.003	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 21:21:22 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00288**	**.00003**	**-.00102**	**.9997**
Stddev	.00068	.00014	.00038	.0002
%RSD	23.607	420.53	37.435	.0185
#1	.00336	-.00007	-.00075	.9995
#2	.00240	.00013	-.00129	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3908.3**	**3536.1**	**72654.**	**5244.4**
Stddev	7.1	2.5	86.	9.0
%RSD	.18285	.07098	.11897	.17234
#1	3903.3	3534.3	72715.	5250.7
#2	3913.4	3537.9	72593.	5238.0

Sample Name: CCVL-7028546 Acquired: 6/14/2022 21:25:16 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00617**	**.23262**	**.01326**	**.01947**	**.00220**
Stddev	.00001	.02436	.00218	.00009	.00002
%RSD	.08829	10.473	16.420	.48025	.94696
#1	.00616	.24985	.01480	.01954	.00222
#2	.00617	.21539	.01172	.01940	.00219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**.51746**	**.00202**	**-.0343**	**.00394**
Stddev	.00005	.00511	.00006	.0068	.00022
%RSD	2.6520	.98718	3.0054	19.71	5.5706
#1	.00210	.51385	.00206	-.0391	.00409
#2	.00202	.52107	.00197	-.0295	.00378
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00418**	**.01038**	**.05188**	**.47686**	**.02767**
Stddev	.00028	.00028	.00042	.01056	.00104
%RSD	6.7405	2.6755	.81458	2.2148	3.7484
#1	.00438	.01058	.05218	.48433	.02694
#2	.00399	.01019	.05158	.46939	.02841
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/14/2022 21:25:16 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20026**	**.00350**	**.00946**	**.99870**	**.00979**
Stddev	.00024	.00005	.00028	.00740	.00013
%RSD	.12197	1.5123	2.9896	.74109	1.3242
#1	.20008	.00346	.00926	.99346	.00969
#2	.20043	.00353	.00966	1.0039	.00988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00973**	**.19147**	**.02113**	**.02541**
Stddev	.00	.00004	.00006	.00116	.00287
%RSD	.0043	.39853	.03169	5.5004	11.277
#1	25.00	.00971	.19151	.02030	.02338
#2	25.00	.00976	.19142	.02195	.02743
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45619**	**.00955**	**.00516**	F **1.001**	**.00452**
Stddev	.00470	.00025	.00006	.002	.00020
%RSD	1.0310	2.6447	1.0721	.2379	4.5038
#1	.45286	.00938	.00520	1.003	.00438
#2	.45951	.00973	.00513	.9995	.00466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/14/2022 21:25:16 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02129**	**.00507**	**.00937**	F **.9991**
Stddev	.00157	.00019	.00075	.0000
%RSD	7.3523	3.7295	7.9740	.0014
#1	.02019	.00494	.00990	.9991
#2	.02240	.00521	.00884	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3875.1**	**3513.0**	**72023.**	**5159.6**
Stddev	6.4	7.3	85.	29.7
%RSD	.16532	.20731	.11739	.57554
#1	3870.5	3507.9	71964.	5180.6
#2	3879.6	3518.2	72083.	5138.6

Sample Name: 480-198882-C-5-B Acquired: 6/14/2022 21:29:09 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**2.6644**	**.00257**	**.00542**	**.01066**
Stddev	.00005	.0277	.00008	.00018	.00001
%RSD	127.22	1.0386	3.2549	3.3508	.08700
#1	-.00000	2.6449	.00263	.00554	.01067
#2	-.00007	2.6840	.00251	.00529	.01065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**4.3257**	**.00011**	**-.1070**	**.00019**
Stddev	.00000	.0090	.00005	.0038	.00003
%RSD	2.9579	.20862	43.168	3.567	16.577
#1	.00001	4.3193	.00008	-.1097	.00021
#2	.00002	4.3321	.00015	-.1043	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.00186**	**.15700**	**.47086**	**.00096**
Stddev	.00047	.00067	.00223	.01276	.00192
%RSD	152.71	35.926	1.4209	2.7107	199.23
#1	.00064	.00233	.15542	.47989	-.00039
#2	-.00002	.00139	.15858	.46184	.00232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198882-C-5-B Acquired: 6/14/2022 21:29:09 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.78988**	**.32416**	**-.00101**	**10.095**	**.00048**
Stddev	.00409	.00028	.00034	.021	.00006
%RSD	.51832	.08789	33.904	.20976	11.996
#1	.78699	.32436	-.00125	10.080	.00044
#2	.79278	.32396	-.00077	10.110	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.07**	**.00145**	**1.1855**	**-.00195**	**.00177**
Stddev	.00	.00012	.0006	.00065	.00174
%RSD	.0041	8.3960	.04947	33.505	98.428
#1	25.07	.00137	1.1859	-.00149	.00054
#2	25.08	.00154	1.1850	-.00241	.00299
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.3612**	**.00008**	**.01442**	**1.003**	**.00190**
Stddev	.0099	.00058	.00002	.013	.00000
%RSD	.72698	772.73	.16917	1.285	.09379
#1	1.3682	-.00034	.01440	1.012	.00190
#2	1.3542	.00049	.01444	.9941	.00191
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198882-C-5-B Acquired: 6/14/2022 21:29:09 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00161**	**.00021**	**-.00007**	**.9998**
Stddev	.00042	.00013	.00040	.0003
%RSD	26.074	62.017	590.13	.0323
#1	.00191	.00030	.00021	.9996
#2	.00131	.00012	-.00035	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3790.7**	**3502.3**	**72239.**	**5295.3**
Stddev	5.0	.6	128.	19.2
%RSD	.13096	.01639	.17731	.36310
#1	3794.2	3501.9	72148.	5308.9
#2	3787.2	3502.7	72329.	5281.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.853%	100.16%	99.750%	101.18%
Range				

Sample Name: 480-198882-C-7-B Acquired: 6/14/2022 21:32:59 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.11241**	**.00283**	**.06477**	**.03067**
Stddev	.00049	.03815	.00087	.00015	.00002
%RSD	108.54	33.943	30.828	.22787	.07423
#1	-.00079	.13939	.00344	.06487	.03065
#2	-.00010	.08543	.00221	.06466	.03068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**43.687**	**.00016**	**-.0862**	**.00031**
Stddev	.00006	.109	.00012	.0181	.00001
%RSD	91.199	.24926	77.110	21.01	3.9134
#1	.00011	43.610	.00007	-.0990	.00032
#2	.00002	43.764	.00024	-.0734	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00127**	**.06788**	**8.6575**	**18.966**	**.00134**
Stddev	.00019	.00020	.0105	.151	.00081
%RSD	14.717	.29824	.12129	.79374	60.761
#1	.00114	.06803	8.6501	18.859	.00191
#2	.00140	.06774	8.6650	19.072	.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198882-C-7-B Acquired: 6/14/2022 21:32:59 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.220**	**.73241**	**-.00050**	**46.309**	**.00455**
Stddev	.013	.00259	.00020	.172	.00004
%RSD	.11871	.35365	38.959	.37232	.82105
#1	11.210	.73058	-.00064	46.187	.00452
#2	11.229	.73424	-.00037	46.431	.00457
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.38**	**.00750**	**5.0117**	**-.00013**	**-.00020**
Stddev	.00	.00064	.0151	.00130	.00085
%RSD	.0121	8.5258	.30069	998.43	435.22
#1	36.38	.00705	5.0223	-.00105	-.00080
#2	36.38	.00795	5.0010	.00079	.00041
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.1961**	**.00465**	**.11088**	**1.006**	**.00159**
Stddev	.0153	.00001	.00022	.000	.00022
%RSD	.69597	.12316	.20288	.0298	14.013
#1	2.1853	.00465	.11072	1.006	.00175
#2	2.2069	.00464	.11104	1.006	.00143
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198882-C-7-B Acquired: 6/14/2022 21:32:59 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00159**	**-.00002**	**.11142**	**1.001**
Stddev	.00007	.00032	.00016	.001
%RSD	4.5091	2086.4	.14207	.0539
#1	.00164	-.00024	.11130	1.000
#2	.00154	.00021	.11153	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3529.4**	**3388.5**	**69988.**	**5304.2**
Stddev	1.2	3.1	162.	6.3
%RSD	.03380	.09230	.23127	.11816
#1	3530.2	3390.7	70102.	5308.6
#2	3528.5	3386.3	69873.	5299.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.108%	96.907%	96.641%	101.35%
Range				

Sample Name: 480-198882-C-8-B Acquired: 6/14/2022 21:36:47 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.14584**	**.00277**	**.10717**	**.01287**
Stddev	.00078	.01189	.00143	.00029	.00002
%RSD	164.70	8.1534	51.832	.27157	.15409
#1	-.00102	.13743	.00175	.10697	.01288
#2	.00008	.15425	.00378	.10738	.01285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**32.529**	**.00011**	**-.0993**	**.00022**
Stddev	.00006	.044	.00005	.0954	.00009
%RSD	2417.2	.13453	44.000	96.10	39.640
#1	-.00004	32.560	.00014	-.1668	.00028
#2	.00004	32.498	.00007	-.0318	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.03072**	**.34736**	**5.5546**	**.00402**
Stddev	.00003	.00022	.00269	.0486	.00090
%RSD	14.360	.70855	.77570	.87473	22.473
#1	.00026	.03057	.34545	5.5889	.00466
#2	.00021	.03088	.34926	5.5202	.00338
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198882-C-8-B Acquired: 6/14/2022 21:36:47 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.1758**	**.04232**	**-.00107**	**82.932**	**.00114**
Stddev	.0113	.00015	.00015	.310	.00006
%RSD	.26997	.36108	13.552	.37414	5.6869
#1	4.1837	.04243	-.00097	83.151	.00109
#2	4.1678	.04221	-.00117	82.712	.00118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.27**	**.00198**	**6.6173**	**-.00162**	**-.00158**
Stddev	.00	.00089	.0212	.00114	.00090
%RSD	.0037	44.957	.32080	70.556	57.068
#1	26.27	.00135	6.6323	-.00243	-.00094
#2	26.27	.00262	6.6022	-.00081	-.00221
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.2548**	**.00097**	**.11503**	**.9977**	**.00194**
Stddev	.0055	.00130	.00053	.0013	.00011
%RSD	.16839	134.58	.45828	.1266	5.4446
#1	3.2509	.00005	.11540	.9986	.00201
#2	3.2586	.00189	.11465	.9968	.00186
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198882-C-8-B Acquired: 6/14/2022 21:36:47 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00244**	**.00021**	**.02754**	**1.001**
Stddev	.00137	.00042	.00064	.000
%RSD	56.120	200.40	2.3193	.0227
#1	.00147	-.00009	.02708	1.001
#2	.00341	.00050	.02799	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3510.0**	**3385.7**	**69365.**	**5281.8**
Stddev	2.9	2.5	125.	9.0
%RSD	.08396	.07458	.18009	.16977
#1	3512.1	3384.0	69277.	5275.5
#2	3507.9	3387.5	69454.	5288.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.608%	96.829%	95.782%	100.92%
Range				

Sample Name: 480-198882-C-9-B Acquired: 6/14/2022 21:40:36 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.26934**	**.00180**	**.12786**	**.02767**
Stddev	.00006	.00423	.00014	.00047	.00004
%RSD	17.388	1.5698	7.7335	.36452	.14309
#1	-.00037	.26635	.00170	.12753	.02765
#2	-.00029	.27233	.00190	.12819	.02770
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**38.175**	**.00029**	**-.0803**	**.00025**
Stddev	.00004	.069	.00003	.0328	.00001
%RSD	48.972	.17995	9.4314	40.84	3.1347
#1	.00005	38.224	.00031	-.1034	.00024
#2	.00010	38.127	.00027	-.0571	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.01855**	**.43348**	**7.5643**	**.00391**
Stddev	.00024	.00035	.00345	.0101	.00046
%RSD	40.842	1.8917	.79509	.13298	11.809
#1	.00076	.01880	.43592	7.5572	.00358
#2	.00042	.01830	.43105	7.5714	.00424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198882-C-9-B Acquired: 6/14/2022 21:40:36 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.2515**	**.25424**	**-.00092**	**93.035**	**.00144**
Stddev	.0122	.00024	.00004	.327	.00014
%RSD	.14801	.09595	3.9436	.35197	9.4279
#1	8.2602	.25441	-.00094	93.266	.00134
#2	8.2429	.25407	-.00089	92.803	.00153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.03**	**.00569**	**7.9572**	**-.00044**	**-.00413**
Stddev	.00	.00179	.0003	.00170	.00603
%RSD	.0068	31.532	.00330	387.82	146.02
#1	26.03	.00442	7.9574	-.00164	-.00839
#2	26.03	.00695	7.9570	.00076	.00013
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.8581**	**.00107**	**.12812**	**1.001**	**.00456**
Stddev	.0484	.00051	.00029	.009	.00026
%RSD	1.6941	47.556	.22373	.8888	5.8052
#1	2.8923	.00142	.12832	.9948	.00475
#2	2.8239	.00071	.12792	1.007	.00437
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198882-C-9-B Acquired: 6/14/2022 21:40:36 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00153**	**.00061**	**.05956**	**1.0000**
Stddev	.00067	.00040	.00082	.0002
%RSD	43.670	64.599	1.3743	.0209
#1	.00105	.00033	.06014	1.000
#2	.00200	.00089	.05898	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3470.3**	**3359.9**	**68632.**	**5189.6**
Stddev	1.2	2.7	211.	7.1
%RSD	.03503	.07949	.30742	.13704
#1	3471.2	3361.8	68483.	5194.6
#2	3469.5	3358.0	68782.	5184.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.584%	96.090%	94.770%	99.159%
Range				

Sample Name: 480-198882-C-10-B Acquired: 6/14/2022 21:44:24 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.36267**	**.00419**	**.11319**	**.02608**
Stddev	.00028	.02276	.00051	.00055	.00006
%RSD	288.78	6.2762	12.260	.48249	.22428
#1	.00010	.37876	.00383	.11281	.02612
#2	-.00029	.34657	.00456	.11358	.02603
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**32.438**	**.00002**	**.0187**	**.00028**
Stddev	.00003	.132	.00001	.0631	.00012
%RSD	44.785	.40637	52.098	337.9	42.109
#1	.00004	32.531	.00001	-.0260	.00036
#2	.00008	32.345	.00003	.0633	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.02544**	**.51946**	**6.9621**	**.00424**
Stddev	.00012	.00012	.00022	.0363	.00005
%RSD	16.982	.45254	.04201	.52158	1.1886
#1	.00062	.02536	.51961	6.9878	.00427
#2	.00079	.02552	.51930	6.9364	.00420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198882-C-10-B Acquired: 6/14/2022 21:44:24 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.0389**	**.43691**	**-.00074**	**86.444**	**.00178**
Stddev	.0103	.00108	.00025	.138	.00024
%RSD	.14580	.24624	34.453	.15929	13.554
#1	7.0462	.43767	-.00092	86.541	.00161
#2	7.0316	.43615	-.00056	86.346	.00195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.98**	**.00405**	**7.6022**	**-.00108**	**-.00070**
Stddev	.00	.00018	.0156	.00063	.00149
%RSD	.0029	4.4574	.20483	58.601	211.90
#1	25.98	.00418	7.6132	-.00063	.00035
#2	25.98	.00392	7.5912	-.00152	-.00175
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.6459**	**.00164**	**.11126**	**1.006**	**.00403**
Stddev	.0048	.00007	.00050	.003	.00069
%RSD	.18264	4.3739	.45186	.2486	17.178
#1	2.6493	.00169	.11161	1.004	.00354
#2	2.6425	.00159	.11090	1.008	.00452
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198882-C-10-B Acquired: 6/14/2022 21:44:24 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00110**	**.00024**	**.05481**	**1.001**
Stddev	.00072	.00012	.00008	.001
%RSD	65.211	49.765	.14768	.1008
#1	.00059	.00032	.05486	1.000
#2	.00161	.00016	.05475	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3459.5**	**3332.4**	**68459.**	**5178.6**
Stddev	4.7	5.9	202.	16.9
%RSD	.13584	.17635	.29522	.32703
#1	3456.2	3328.3	68316.	5166.6
#2	3462.8	3336.6	68602.	5190.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.304%	95.304%	94.530%	98.949%
Range				

Sample Name: 480-198913-J-1-A Acquired: 6/14/2022 21:48:12 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.33751**	**.00072**	**.17637**	**.10901**
Stddev	.00055	.01160	.00370	.00088	.00025
%RSD	120.86	3.4379	511.45	.49978	.22702
#1	-.00007	.32930	.00334	.17575	.10884
#2	-.00084	.34571	-.00189	.17699	.10919
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**124.43**	**.00024**	**-.0573**	**.00073**
Stddev	.00007	.08	.00004	.1443	.00010
%RSD	106.44	.06501	15.288	252.0	13.439
#1	.00011	124.37	.00027	.0448	.00079
#2	.00002	124.49	.00022	-.1593	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00362**	**2.2658**	**14.674**	**.01363**
Stddev	.00028	.00014	.0070	.000	.00001
%RSD	61.225	3.8738	.30848	.00128	.04389
#1	.00026	.00372	2.2608	14.674	.01363
#2	.00065	.00352	2.2707	14.673	.01363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198913-J-1-A Acquired: 6/14/2022 21:48:12 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.850**	**.22565**	**.00411**	**250.51**	**.00293**
Stddev	.044	.00055	.00032	.29	.00022
%RSD	.11664	.24525	7.7910	.11599	7.5213
#1	37.819	.22526	.00388	250.30	.00309
#2	37.882	.22604	.00433	250.71	.00278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**.00299**	**38.373**	**.00077**	**-.00820**
Stddev	.00	.00009	.001	.00141	.00268
%RSD	.0015	3.1221	.00209	182.61	32.728
#1	25.12	.00306	38.373	.00177	-.01010
#2	25.12	.00292	38.372	-.00023	-.00630
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.4544**	**.00089**	**4.3024**	**1.009**	**.00965**
Stddev	.0228	.00029	.0461	.001	.00021
%RSD	.35332	32.284	1.0704	.0928	2.1998
#1	6.4705	.00110	4.3349	1.008	.00950
#2	6.4383	.00069	4.2698	1.010	.00980
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198913-J-1-A Acquired: 6/14/2022 21:48:12 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00202**	**.00098**	**.00294**	**1.000**
Stddev	.00112	.00002	.00009	.001
%RSD	55.195	2.2433	3.1256	.0712
#1	.00281	.00099	.00300	.9997
#2	.00123	.00096	.00287	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3271.0**	**3265.1**	**67194.**	**5144.6**
Stddev	.9	2.0	219.	9.0
%RSD	.02840	.06175	.32645	.17564
#1	3271.6	3263.7	67349.	5138.2
#2	3270.3	3266.6	67039.	5151.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.438%	93.380%	92.784%	98.299%
Range				

Sample Name: 480-198887-D-1-A Acquired: 6/14/2022 21:52:09 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**1.6171**	**.00378**	**.00313**	**.01444**
Stddev	.00018	.0049	.00013	.00033	.00009
%RSD	127.50	.30428	3.4899	10.418	.60104
#1	.00001	1.6206	.00387	.00336	.01438
#2	.00026	1.6136	.00368	.00290	.01450
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**1.0312**	**.00002**	**-.0417**	**.00090**
Stddev	.00004	.0014	.00007	.0473	.00017
%RSD	52.063	.13473	413.33	113.3	18.907
#1	.00011	1.0322	.00006	-.0083	.00078
#2	.00005	1.0302	-.00003	-.0752	.00102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00642**	**.00614**	**2.0356**	**.92462**	**.00426**
Stddev	.00018	.00060	.0108	.00984	.00109
%RSD	2.7785	9.8196	.52877	1.0637	25.626
#1	.00630	.00572	2.0280	.93158	.00349
#2	.00655	.00657	2.0432	.91767	.00503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198887-D-1-A Acquired: 6/14/2022 21:52:09 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.81696**	**.03377**	**-.00076**	**3.1994**	**.00344**
Stddev	.00031	.00002	.00011	.0068	.00009
%RSD	.03829	.06873	14.237	.21262	2.5061
#1	.81674	.03376	-.00084	3.1946	.00338
#2	.81718	.03379	-.00069	3.2042	.00350
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00234**	**.35201**	**.00139**	**-.00002**
Stddev	.00	.00130	.00495	.00036	.00094
%RSD	.0006	55.502	1.4070	26.025	4223.9
#1	25.04	.00142	.35551	.00114	-.00069
#2	25.04	.00325	.34851	.00165	.00064
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5605**	**.00020**	**.00482**	**1.004**	**.09982**
Stddev	.0223	.00123	.00012	.000	.00011
%RSD	.87079	604.18	2.4086	.0357	.10622
#1	2.5763	-.00067	.00474	1.004	.09990
#2	2.5447	.00107	.00491	1.004	.09975
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198887-D-1-A Acquired: 6/14/2022 21:52:09 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00166**	**.00475**	**.07267**	**1.000**
Stddev	.00145	.00018	.00068	.000
%RSD	87.031	3.7796	.93736	.0220
#1	.00064	.00463	.07219	1.001
#2	.00268	.00488	.07315	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3825.5**	**3507.0**	**72384.**	**5328.4**
Stddev	3.3	.2	298.	24.9
%RSD	.08659	.00440	.41190	.46773
#1	3823.2	3506.9	72595.	5346.0
#2	3827.8	3507.1	72173.	5310.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.752%	100.30%	99.950%	101.81%
Range				

Sample Name: 480-197352-J-1-B Acquired: 6/14/2022 21:56:00 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00182**	**.01524**	**.00383**	**5.9306**	**3.2983**
Stddev	.00109	.01930	.00156	.0181	.0043
%RSD	59.735	126.67	40.676	.30529	.12942
#1	-.00258	.02889	.00493	5.9434	3.3013
#2	-.00105	.00159	.00273	5.9177	3.2953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	^ *****	**-.00027**	**.3468**	**-.00034**
Stddev	.00004	-----	.00004	.0917	.00079
%RSD	27.822	-----	14.297	26.44	235.42
#1	-.00019	^ -----	-.00030	.4117	-.00090
#2	-.00013	^ -----	-.00024	.2820	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	k **.58030**	**18.310**	F **685.24**	k **42.958**
Stddev	.00000	.00161	.034	.52	.144
%RSD	.91110	.27679	.18743	.07528	.33421
#1	.00031	k .57917	18.335	684.88	k 42.857
#2	.00031	k .58144	18.286	685.61	k 43.060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-197352-J-1-B Acquired: 6/14/2022 21:56:00 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **904.47**	**1.4173**	**-.00350**	F **12553.**	**.00358**
Stddev	3.62	.0017	.00051	9.	.00104
%RSD	.40013	.12169	14.677	.07002	29.094
#1	901.91	1.4160	-.00314	12559.	.00432
#2	907.03	1.4185	-.00387	12546.	.00285
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	450.00			900.00	
Low Limit	-.20000			-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.06594**	**4.3065**	**.01233**	**.00331**
Stddev	.00	.00578	.0207	.00041	.00017
%RSD	.0081	8.7588	.48047	3.3574	5.1158
#1	25.00	.06186	4.3211	.01262	.00343
#2	25.00	.07003	4.2919	.01204	.00319
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37680**	**.00694**	^ *****	**1.000**	**.07009**
Stddev	.01520	.00028	-----	.008	.00159
%RSD	4.0351	4.0590	-----	.8078	2.2699
#1	.38755	.00713	^ -----	.9948	.06896
#2	.36605	.00674	^ -----	1.006	.07121
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-197352-J-1-B Acquired: 6/14/2022 21:56:00 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.02249**	**.00009**	**.05219**	**.9989**
Stddev	.00127	.00039	.00036	.0006
%RSD	5.6531	448.78	.69430	.0592
#1	.02339	.00036	.05194	.9985
#2	.02159	-.00019	.05245	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1519.5**	**1798.9**	**39956.**	**3988.9**
Stddev	1.6	5.2	32.	1.8
%RSD	.10282	.29145	.08017	.04416
#1	1518.4	1795.2	39978.	3990.2
#2	1520.6	1802.6	39933.	3987.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	39.224%	51.448%	55.172%	76.218%
Range				

Sample Name: 480-197352-J-2-B Acquired: 6/14/2022 22:00:17 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00109**	**.00752**	**.01029**	**5.2196**	**3.2148**
Stddev	.00076	.02954	.00210	.0246	.0099
%RSD	70.169	392.63	20.429	.47144	.30892
#1	.00163	-.01336	.01178	5.2370	3.2218
#2	.00055	.02841	.00881	5.2022	3.2077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	^ *****	**-.00004**	**.5650**	**-.00075**
Stddev	.00003	-----	.00011	.1233	.00001
%RSD	24.011	-----	311.30	21.82	1.6279
#1	-.00012	^ -----	.00004	.6521	-.00076
#2	-.00017	^ -----	-.00012	.4778	-.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	k **.07610**	**26.596**	F **584.96**	k **42.430**
Stddev	.00016	.00127	.019	1.24	.458
%RSD	525.29	1.6705	.07210	.21263	1.0788
#1	-.00014	k .07520	26.610	585.84	k 42.106
#2	.00008	k .07700	26.582	584.08	k 42.754
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-197352-J-2-B Acquired: 6/14/2022 22:00:17 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **830.42**	**1.6809**	**-.00227**	F **12202.**	**-.00117**
Stddev	2.62	.0016	.00014	53.	.00061
%RSD	.31509	.09698	6.0003	.43060	51.988
#1	832.27	1.6821	-.00237	12239.	-.00074
#2	828.57	1.6798	-.00218	12165.	-.00160
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	450.00			900.00	
Low Limit	-.20000			-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00086**	**3.7690**	**.00877**	**-.00221**
Stddev	.00	.00074	.0476	.00461	.00837
%RSD	.0057	85.703	1.2636	52.518	377.72
#1	25.00	-.00034	3.8026	.00551	-.00813
#2	25.00	-.00139	3.7353	.01203	.00370
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00501**	**.00201**	^ *****	**1.005**	**.06368**
Stddev	.01498	.00186	-----	.006	.00003
%RSD	299.24	92.700	-----	.6066	.04389
#1	-.00559	.00333	^ -----	1.009	.06370
#2	.01560	.00069	^ -----	1.000	.06366
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-197352-J-2-B Acquired: 6/14/2022 22:00:17 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.02136**	**-.00015**	**.00540**	**1.000**
Stddev	.00979	.00011	.00113	.000
%RSD	45.850	76.650	20.918	.0284
#1	.02829	-.00023	.00460	1.000
#2	.01444	-.00007	.00620	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1557.6**	**1845.9**	**40671.**	**3995.5**
Stddev	3.5	7.8	18.	9.7
%RSD	.22335	.42454	.04334	.24390
#1	1555.1	1840.4	40658.	4002.4
#2	1560.1	1851.4	40683.	3988.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	40.208%	52.791%	56.160%	76.343%
Range				

Sample Name: CCV-7032336 Acquired: 6/14/2022 22:04:36 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0177**	**50.859**	**1.0035**	**1.0415**	**1.0009**
Stddev	.0010	.011	.0030	.0008	.0015
%RSD	.09560	.02180	.29620	.07579	.14767
#1	1.0170	50.851	1.0056	1.0420	1.0020
#2	1.0184	50.867	1.0014	1.0409	.99990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0155**	**50.856**	**1.0161**	**.9624**	**1.0026**
Stddev	.0025	.079	.0012	.0157	.0007
%RSD	.24947	.15444	.11405	1.636	.06728
#1	1.0173	50.911	1.0169	.9736	1.0031
#2	1.0137	50.800	1.0153	.9513	1.0021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0106**	**1.0081**	**50.871**	**50.301**	**.98717**
Stddev	.0011	.0018	.179	.070	.00193
%RSD	.10738	.17754	.35116	.13865	.19536
#1	1.0099	1.0068	50.998	50.350	.98853
#2	1.0114	1.0093	50.745	50.251	.98580
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 22:04:36 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.467**	**1.0112**	**1.0122**	**49.294**	**1.0005**
Stddev	.059	.0011	.0011	.047	.0000
%RSD	.11630	.11228	.10852	.09496	.00167
#1	50.426	1.0104	1.0130	49.327	1.0005
#2	50.509	1.0120	1.0114	49.261	1.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.60**	**1.0071**	**25.059**	**1.0148**	**.99302**
Stddev	.03	.0015	.030	.0051	.00897
%RSD	.0710	.15003	.11970	.49997	.90369
#1	37.62	1.0082	25.080	1.0184	.99937
#2	37.58	1.0060	25.038	1.0113	.98668
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.113**	**1.0032**	**1.0130**	**1.507**	**1.0063**
Stddev	.014	.0028	.0030	.002	.0002
%RSD	.13635	.28116	.29514	.1548	.01677
#1	10.123	1.0052	1.0151	1.505	1.0062
#2	10.103	1.0012	1.0109	1.509	1.0065
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 22:04:36 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0167**	**1.0083**	**1.0194**	**1.507**
Stddev	.0012	.0005	.0000	.000
%RSD	.11751	.05330	.00327	.0177
#1	1.0175	1.0079	1.0194	1.506
#2	1.0159	1.0087	1.0194	1.507
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3375.0**	**3365.6**	**68388.**	**5063.4**
Stddev	4.7	2.1	146.	7.1
%RSD	.13858	.06326	.21418	.14009
#1	3371.7	3364.1	68492.	5058.4
#2	3378.3	3367.1	68284.	5068.4

Sample Name: CCB-7026764 Acquired: 6/14/2022 22:08:16 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00772**	**.00248**	**.00352**	**.00006**
Stddev	.00024	.02140	.00056	.00014	.00000
%RSD	91.607	277.22	22.489	4.0157	5.3771
#1	-.00044	.02285	.00287	.00362	.00006
#2	-.00009	-.00741	.00208	.00342	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.03649**	**-.00015**	**-.0697**	**.00027**
Stddev	.00005	.00297	.00002	.0065	.00012
%RSD	45.616	8.1321	14.567	9.295	46.788
#1	.00008	.03859	-.00017	-.0743	.00018
#2	.00015	.03439	-.00014	-.0651	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**-.00032**	**.00139**	**.23302**	**.00089**
Stddev	.00003	.00012	.00127	.01224	.00187
%RSD	8.0223	35.877	91.622	5.2516	208.84
#1	-.00044	-.00024	.00049	.22436	-.00043
#2	-.00039	-.00040	.00229	.24167	.00221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 22:08:16 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**-.00003**	**.00127**	**.46851**	**.00015**
Stddev	.00297	.00007	.00010	.00050	.00014
%RSD	741.86	230.63	8.1953	.10767	93.778
#1	.00250	.00002	.00119	.46886	.00005
#2	-.00170	-.00008	.00134	.46815	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00078**	**-.00062**	**-.00117**	**.00302**
Stddev	.00	.00017	.00340	.00149	.00226
%RSD	.0058	21.435	544.84	126.92	74.801
#1	25.00	.00090	.00178	-.00222	.00142
#2	25.00	.00066	-.00303	-.00012	.00462
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03410**	**.00081**	**.00263**	**1.007**	**-.00025**
Stddev	.01257	.00001	.00015	.000	.00017
%RSD	36.860	1.7534	5.8615	.0301	68.736
#1	-.02521	.00082	.00274	1.007	-.00013
#2	-.04298	.00080	.00252	1.006	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 22:08:16 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00177**	**.00028**	**-.00132**	**.9997**
Stddev	.00053	.00040	.00083	.0008
%RSD	29.915	146.89	62.386	.0830
#1	.00139	.00056	-.00191	.9991
#2	.00214	-.00001	-.00074	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3872.2**	**3492.0**	**72031.**	**5120.7**
Stddev	2.0	2.5	93.	3.7
%RSD	.05265	.07268	.12934	.07250
#1	3870.8	3490.2	72097.	5123.3
#2	3873.6	3493.8	71965.	5118.1

Sample Name: CCVL-7028546 Acquired: 6/14/2022 22:12:11 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00575**	**.19678**	**.01527**	**.02132**	**.00220**
Stddev	.00004	.01455	.00231	.00040	.00000
%RSD	.62991	7.3938	15.107	1.8756	.05838
#1	.00577	.20707	.01364	.02161	.00221
#2	.00572	.18649	.01690	.02104	.00220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00220**	**.52364**	**.00187**	**-.0774**	**.00404**
Stddev	.00012	.00183	.00017	.0241	.00000
%RSD	5.5058	.34887	8.9525	31.17	.02895
#1	.00229	.52493	.00199	-.0604	.00404
#2	.00212	.52234	.00175	-.0945	.00404
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00367**	**.01125**	**.05153**	**.63801**	**.02886**
Stddev	.00016	.00046	.00152	.04291	.00161
%RSD	4.4655	4.1265	2.9543	6.7263	5.5693
#1	.00379	.01093	.05046	.60766	.03000
#2	.00356	.01158	.05261	.66835	.02772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/14/2022 22:12:11 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19898**	**.00348**	**.00964**	W **1.3480**	**.00988**
Stddev	.00402	.00004	.00029	.0109	.00045
%RSD	2.0180	1.1693	3.0049	.80980	4.5505
#1	.20182	.00346	.00944	1.3557	.00957
#2	.19614	.00351	.00985	1.3402	.01020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				1.0000	
Range				30.000%	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00985**	**.19262**	**.02083**	**.02501**
Stddev	.00	.00078	.00306	.00020	.00130
%RSD	.0036	7.9602	1.5882	.95216	5.2015
#1	25.00	.01040	.19045	.02069	.02593
#2	25.00	.00929	.19478	.02097	.02409
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46588**	**.00970**	**.00602**	F **1.001**	**.00462**
Stddev	.01003	.00057	.00004	.001	.00046
%RSD	2.1519	5.8808	.69040	.0998	9.9851
#1	.47297	.01010	.00599	1.002	.00430
#2	.45879	.00930	.00605	1.000	.00495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/14/2022 22:12:11 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02118**	**.00490**	**.00923**	F **.9998**
Stddev	.00068	.00009	.00025	.0001
%RSD	3.2101	1.8635	2.7270	.0142
#1	.02069	.00483	.00941	.9999
#2	.02166	.00496	.00905	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3857.5**	**3496.6**	**72008.**	**5151.2**
Stddev	7.0	2.3	141.	19.4
%RSD	.18253	.06515	.19512	.37724
#1	3852.5	3495.0	71909.	5137.5
#2	3862.5	3498.2	72107.	5165.0

Sample Name: MB 480-629782/1-A Acquired: 6/14/2022 22:16:04 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**.00108**	**.00033**	**.00229**	**.00001**
Stddev	.00002	.00379	.00019	.00009	.00001
%RSD	5.6805	350.80	59.101	3.9405	156.57
#1	.00042	-.00160	.00019	.00235	.00002
#2	.00045	.00376	.00046	.00223	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00569**	**.00001**	**.0536**	**.00018**
Stddev	.00007	.00233	.00004	.0508	.00008
%RSD	107.13	41.017	278.35	94.70	43.203
#1	.00011	.00404	-.00001	.0895	.00024
#2	.00001	.00734	.00004	.0177	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**-.00012**	**-.00133**	**.14747**	**.00188**
Stddev	.00033	.00005	.00219	.02284	.00036
%RSD	176.10	40.781	164.11	15.485	19.238
#1	.00005	-.00008	.00021	.13132	.00214
#2	-.00042	-.00015	-.00288	.16362	.00163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629782/1-A Acquired: 6/14/2022 22:16:04 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.00016**	**-.00103**	**.35606**	**-.00039**
Stddev	.00019	.00000	.00011	.00624	.00003
%RSD	171.72	1.3883	10.960	1.7514	8.9131
#1	-.00025	-.00016	-.00111	.36047	-.00041
#2	.00002	-.00016	-.00095	.35165	-.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00034**	**-.00485**	**.00058**	**.00063**
Stddev	.00	.00114	.00008	.00027	.00035
%RSD	.0049	334.33	1.5615	46.777	55.104
#1	25.00	-.00046	-.00479	.00039	.00088
#2	25.00	.00115	-.00490	.00078	.00039
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00933**	**.00004**	**.00037**	**.9998**	**-.00049**
Stddev	.00683	.00015	.00005	.0060	.00014
%RSD	73.242	399.84	13.672	.6040	29.109
#1	-.01416	-.00007	.00041	.9956	-.00059
#2	-.00450	.00015	.00034	1.004	-.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629782/1-A Acquired: 6/14/2022 22:16:04 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00178**	**-.00016**	**-.00075**	**1.000**
Stddev	.00116	.00020	.00021	.000
%RSD	65.290	125.95	27.685	.0063
#1	.00260	-.00002	-.00089	1.000
#2	.00096	-.00030	-.00060	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3889.1**	**3514.0**	**72691.**	**5198.8**
Stddev	6.6	4.5	168.	22.9
%RSD	.17018	.12784	.23082	.44099
#1	3884.4	3510.8	72572.	5215.0
#2	3893.7	3517.2	72810.	5182.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.39%	100.50%	100.37%	99.336%
Range				

Sample Name: LCS 480-629782/2-A Acquired: 6/14/2022 22:19:58 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04807**	**10.093**	**.19932**	**.20125**	**.21139**
Stddev	.00058	.013	.00077	.00085	.00022
%RSD	1.2120	.13021	.38577	.42110	.10624
#1	.04766	10.102	.19987	.20065	.21123
#2	.04848	10.083	.19878	.20185	.21155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20741**	**10.111**	**.19848**	**-.1485**	**.19927**
Stddev	.00065	.014	.00010	.0736	.00063
%RSD	.31241	.13950	.05083	49.56	.31819
#1	.20695	10.101	.19855	-.2005	.19882
#2	.20787	10.121	.19841	-.0964	.19971
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20131**	**.20584**	**10.245**	**9.9675**	**.19407**
Stddev	.00076	.00043	.027	.0476	.00285
%RSD	.37639	.20968	.26837	.47785	1.4709
#1	.20077	.20615	10.225	9.9338	.19205
#2	.20185	.20554	10.264	10.001	.19609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629782/2-A Acquired: 6/14/2022 22:19:58 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.368**	**.20539**	**.20426**	**9.9489**	**.19466**
Stddev	.011	.00053	.00035	.0193	.00024
%RSD	.10529	.25592	.17243	.19386	.12343
#1	10.361	.20501	.20451	9.9353	.19449
#2	10.376	.20576	.20401	9.9625	.19483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.19995**	**9.7269**	**.20594**	**.19338**
Stddev	.00	.00094	.0227	.00244	.00323
%RSD	.0005	.47102	.23287	1.1869	1.6699
#1	25.00	.20062	9.7109	.20421	.19110
#2	25.00	.19929	9.7429	.20767	.19566
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5292**	F **.24173**	**.20155**	**1.013**	**.20299**
Stddev	.0093	.00000	.00017	.002	.00058
%RSD	.09745	.00145	.08647	.1541	.28580
#1	9.5358	.24174	.20143	1.014	.20258
#2	9.5226	.24173	.20167	1.012	.20340
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: LCS 480-629782/2-A Acquired: 6/14/2022 22:19:58 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20321**	**.19959**	**.19912**	**1.0000**
Stddev	.00215	.00057	.00067	.0003
%RSD	1.0585	.28313	.33516	.0285
#1	.20473	.19999	.19865	.9998
#2	.20169	.19919	.19959	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3662.9**	**3456.7**	**70938.**	**5209.2**
Stddev	.1	3.4	225.	9.6
%RSD	.00396	.09945	.31755	.18502
#1	3663.0	3459.1	71098.	5216.0
#2	3662.8	3454.3	70779.	5202.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.554%	98.858%	97.954%	99.534%
Range				

Sample Name: 480-198437-C-3-D Acquired: 6/14/2022 22:23:39 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.01773**	**.01330**	**.11341**	**.05730**
Stddev	.00004	.00093	.00107	.00031	.00009
%RSD	18.502	5.2552	8.0586	.27610	.15567
#1	-.00021	.01839	.01405	.11319	.05724
#2	-.00027	.01708	.01254	.11363	.05736
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**46.527**	**-.00004**	**-.0145**	**.00048**
Stddev	.00009	.071	.00004	.0353	.00001
%RSD	110.43	.15185	91.725	244.0	1.9265
#1	.00014	46.477	-.00007	.0105	.00047
#2	.00002	46.577	-.00001	-.0395	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.00120**	**20.532**	**7.3223**	**.02198**
Stddev	.00004	.00012	.054	.0011	.00239
%RSD	38.823	9.6750	.26446	.01528	10.854
#1	-.00008	-.00129	20.494	7.3215	.02029
#2	-.00014	-.00112	20.571	7.3231	.02366
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198437-C-3-D Acquired: 6/14/2022 22:23:39 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.938**	**1.1704**	**-.00046**	**70.151**	**.00144**
Stddev	.013	.0003	.00039	.075	.00014
%RSD	.09258	.02395	86.200	.10727	9.5946
#1	13.929	1.1706	-.00073	70.098	.00134
#2	13.947	1.1702	-.00018	70.205	.00154
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00398**	**1.8154**	**.00183**	**-.00458**
Stddev	.00	.00007	.0009	.00206	.00653
%RSD	.0045	1.7883	.05019	112.59	142.43
#1	25.02	.00393	1.8160	.00329	.00003
#2	25.02	.00403	1.8147	.00037	-.00920
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.639**	**-.00023**	**.37360**	**1.015**	**-.00034**
Stddev	.042	.00002	.00037	.001	.00020
%RSD	.36262	9.5321	.09989	.1171	58.248
#1	11.609	-.00024	.37334	1.014	-.00047
#2	11.668	-.00021	.37386	1.016	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198437-C-3-D Acquired: 6/14/2022 22:23:39 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00129**	**.00015**	**-.00180**	**.9995**
Stddev	.00012	.00032	.00020	.0004
%RSD	9.1584	211.06	10.948	.0412
#1	.00137	.00037	-.00167	.9992
#2	.00121	-.00007	-.00194	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3469.3**	**3347.4**	**68759.**	**5109.7**
Stddev	1.1	.0	36.	26.7
%RSD	.03288	.00142	.05168	.52157
#1	3470.1	3347.4	68734.	5128.5
#2	3468.5	3347.4	68784.	5090.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.558%	95.733%	94.945%	97.632%
Range				

Sample Name: 480-198437-C-6-D Acquired: 6/14/2022 22:27:29 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.02830**	**.02363**	**.01154**	**.00366**
Stddev	.00026	.01921	.00343	.00015	.00001
%RSD	291.05	67.867	14.493	1.2664	.37001
#1	.00027	.04188	.02605	.01164	.00367
#2	-.00009	.01472	.02121	.01143	.00365
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**16.153**	**.00012**	**-.0881**	**.00013**
Stddev	.00004	.016	.00032	.0080	.00016
%RSD	24.860	.10201	274.20	9.112	124.82
#1	.00013	16.142	.00035	-.0825	.00024
#2	.00018	16.165	-.00011	-.0938	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00060**	**.23313**	**1.5867**	**.00355**
Stddev	.00046	.00038	.00261	.0229	.00138
%RSD	564.07	63.550	1.1212	1.4439	38.784
#1	.00025	.00088	.23498	1.5705	.00257
#2	-.00041	.00033	.23128	1.6029	.00452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198437-C-6-D Acquired: 6/14/2022 22:27:29 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.9681**	**.12684**	**.01057**	**19.980**	**.00018**
Stddev	.0001	.00044	.00022	.018	.00027
%RSD	.00480	.34348	2.0610	.08782	147.96
#1	2.9682	.12715	.01041	19.967	.00038
#2	2.9680	.12654	.01072	19.992	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.00132**	**5.7879**	**-.00021**	**-.00462**
Stddev	.00	.00123	.0027	.00000	.00158
%RSD	.0046	92.591	.04637	2.2841	34.099
#1	25.04	.00219	5.7898	-.00021	-.00351
#2	25.05	.00046	5.7860	-.00021	-.00573
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.3825**	**.00011**	**.06284**	**1.001**	**-.00037**
Stddev	.0117	.00050	.00001	.002	.00022
%RSD	.21691	451.32	.00838	.1613	58.099
#1	5.3742	.00046	.06284	1.002	-.00052
#2	5.3907	-.00024	.06283	1.000	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198437-C-6-D Acquired: 6/14/2022 22:27:29 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00208**	**-.00019**	**.00030**	**1.001**
Stddev	.00020	.00040	.00044	.000
%RSD	9.4822	206.36	145.88	.0034
#1	.00194	-.00047	-.00001	1.001
#2	.00222	.00009	.00061	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3699.2**	**3427.8**	**70588.**	**5156.0**
Stddev	14.0	10.6	166.	13.5
%RSD	.37785	.30820	.23539	.26184
#1	3689.3	3420.3	70470.	5165.5
#2	3709.0	3435.2	70705.	5146.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.491%	98.031%	97.470%	98.517%
Range				

Sample Name: 480-198437-C-6-Dsd@5 Acquired: 6/14/2022 22:31:18 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**-.00229**	**.00420**	**.00269**	**.00098**
Stddev	.00060	.02546	.00206	.00015	.00002
%RSD	205.85	1110.2	48.971	5.5982	1.8617
#1	.00013	.01571	.00274	.00259	.00099
#2	-.00071	-.02029	.00565	.00280	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**3.2880**	**.00002**	**-.1337**	**.00009**
Stddev	.00001	.0290	.00012	.0167	.00001
%RSD	19.645	.88156	722.58	12.46	10.231
#1	.00008	3.3085	-.00007	-.1455	.00008
#2	.00006	3.2676	.00010	-.1220	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00028**	**.04490**	**.33341**	**.00030**
Stddev	.00003	.00050	.00141	.02814	.00072
%RSD	12.186	179.49	3.1357	8.4413	240.40
#1	-.00024	-.00007	.04589	.35331	.00080
#2	-.00021	.00063	.04390	.31351	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198437-C-6-Dsd@5 Acquired: 6/14/2022 22:31:18 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.59736**	**.02571**	**.00081**	**4.2817**	**.00002**
Stddev	.00148	.00014	.00013	.0360	.00010
%RSD	.24788	.52861	15.718	.84150	541.08
#1	.59841	.02580	.00090	4.3071	-.00005
#2	.59631	.02561	.00072	4.2562	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00023**	**1.1371**	**-.00130**	**-.00051**
Stddev	.00	.00015	.0042	.00026	.00192
%RSD	.0024	62.375	.36859	19.786	378.01
#1	25.01	.00013	1.1400	-.00149	-.00187
#2	25.01	.00034	1.1341	-.00112	.00085
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0592**	**.00079**	**.01296**	**1.003**	**-.00049**
Stddev	.0053	.00019	.00017	.001	.00001
%RSD	.50462	24.486	1.2821	.1350	1.5318
#1	1.0630	.00093	.01307	1.002	-.00050
#2	1.0555	.00065	.01284	1.003	-.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198437-C-6-Dsd@5 Acquired: 6/14/2022 22:31:18 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00203**	**.00007**	**-.00106**	**1.0000**
Stddev	.00006	.00012	.00004	.0005
%RSD	2.7636	170.35	3.9179	.0483
#1	.00200	.00015	-.00103	.9997
#2	.00207	-.00001	-.00108	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3878.9**	**3509.1**	**72461.**	**5175.3**
Stddev	1.8	3.8	125.	23.6
%RSD	.04626	.10731	.17192	.45585
#1	3880.2	3506.5	72373.	5158.6
#2	3877.6	3511.8	72549.	5192.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.13%	100.36%	100.06%	98.886%
Range				

Sample Name: 480-198437-C-6-DPDS Acquired: 6/14/2022 22:35:10 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05145**	**10.472**	**.23462**	**.21969**	**.22001**
Stddev	.00096	.015	.00097	.00087	.00057
%RSD	1.8667	.14364	.41479	.39672	.25741
#1	.05213	10.483	.23394	.21907	.22041
#2	.05077	10.462	.23531	.22031	.21961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21907**	**25.865**	**.20827**	**-.1241**	**.20881**
Stddev	.00008	.009	.00035	.0653	.00026
%RSD	.03608	.03459	.16941	52.60	.12324
#1	.21902	25.872	.20802	-.0780	.20899
#2	.21913	25.859	.20852	-.1703	.20862
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21391**	**.21817**	**10.854**	**11.807**	**.20268**
Stddev	.00039	.00008	.044	.051	.00135
%RSD	.18316	.03781	.40504	.43315	.66789
#1	.21418	.21811	10.885	11.843	.20364
#2	.21363	.21822	10.823	11.771	.20172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198437-C-6-DPDS Acquired: 6/14/2022 22:35:10 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.573**	**.33996**	**.22567**	**29.268**	**.20538**
Stddev	.043	.00074	.00014	.090	.00064
%RSD	.31366	.21859	.06425	.30707	.31094
#1	13.603	.34049	.22577	29.332	.20493
#2	13.543	.33943	.22557	29.205	.20583
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.20921**	**15.883**	**.22442**	**.20327**
Stddev	.00	.00208	.024	.00067	.00485
%RSD	.0029	.99459	.15187	.29772	2.3871
#1	25.04	.20774	15.866	.22490	.19984
#2	25.04	.21069	15.900	.22395	.20670
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.413**	**.20802**	**.27188**	**1.010**	**.21248**
Stddev	.055	.00012	.00084	.004	.00048
%RSD	.35369	.05592	.31074	.4004	.22655
#1	15.451	.20811	.27248	1.013	.21282
#2	15.374	.20794	.27128	1.007	.21214
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198437-C-6-DPDS Acquired: 6/14/2022 22:35:10 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21791**	**.21006**	**.21023**	**1.000**
Stddev	.00119	.00076	.00030	.001
%RSD	.54526	.36326	.14466	.1063
#1	.21875	.20952	.21045	.9997
#2	.21707	.21060	.21002	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3592.7**	**3437.2**	**70589.**	**5195.0**
Stddev	2.9	.6	26.	8.8
%RSD	.08176	.01881	.03736	.16943
#1	3590.6	3436.8	70607.	5201.3
#2	3594.8	3437.7	70570.	5188.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.743%	98.301%	97.471%	99.263%
Range				

Sample Name: 480-198437-C-6-E MS Acquired: 6/14/2022 22:38:51 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04741**	**9.5785**	**.22195**	**.20191**	**.20384**
Stddev	.00007	.0704	.00266	.00067	.00008
%RSD	.15071	.73499	1.1962	.33248	.04034
#1	.04736	9.6283	.22383	.20144	.20378
#2	.04746	9.5287	.22008	.20239	.20389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20523**	**25.880**	**.19563**	**-.0932**	**.19682**
Stddev	.00007	.048	.00000	.0573	.00012
%RSD	.03355	.18709	.00125	61.46	.05847
#1	.20528	25.846	.19563	-.0527	.19690
#2	.20518	25.915	.19563	-.1336	.19674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19791**	**.20332**	**10.287**	**11.040**	**.18775**
Stddev	.00025	.00071	.017	.006	.00104
%RSD	.12481	.34994	.16241	.05429	.55465
#1	.19773	.20282	10.275	11.036	.18849
#2	.19808	.20382	10.299	11.044	.18701
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198437-C-6-E MS Acquired: 6/14/2022 22:38:51 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.049**	**.32550**	**.21416**	**29.085**	**.19329**
Stddev	.044	.00060	.00011	.004	.00020
%RSD	.33426	.18520	.05208	.01491	.10503
#1	13.018	.32507	.21424	29.082	.19343
#2	13.080	.32593	.21408	29.088	.19314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.19749**	**15.752**	**.20540**	**.19279**
Stddev	.00	.00020	.025	.00172	.00184
%RSD	.0015	.10217	.16143	.83740	.95347
#1	25.04	.19735	15.770	.20661	.19149
#2	25.04	.19763	15.734	.20418	.19409
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.069**	**.24308**	**.25416**	**1.007**	**.20121**
Stddev	.043	.00184	.00004	.005	.00020
%RSD	.28743	.75819	.01602	.4923	.09818
#1	15.038	.24439	.25413	1.011	.20107
#2	15.100	.24178	.25419	1.004	.20135
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198437-C-6-E MS Acquired: 6/14/2022 22:38:51 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20029**	**.19761**	**.19647**	**1.001**
Stddev	.00084	.00042	.00038	.000
%RSD	.41881	.21495	.19205	.0009
#1	.19970	.19730	.19673	1.001
#2	.20088	.19791	.19620	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3575.2**	**3421.3**	**70176.**	**5157.9**
Stddev	1.4	.5	46.	28.0
%RSD	.03830	.01605	.06541	.54366
#1	3576.1	3421.7	70209.	5177.7
#2	3574.2	3420.9	70144.	5138.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.290%	97.846%	96.902%	98.553%
Range				

Sample Name: 480-198437-C-6-F MSD Acquired: 6/14/2022 22:42:32 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05270**	**9.9904**	**.22518**	**.21065**	**.21195**
Stddev	.00096	.0317	.00153	.00020	.00008
%RSD	1.8282	.31727	.68002	.09297	.03768
#1	.05202	9.9680	.22626	.21052	.21201
#2	.05338	10.013	.22410	.21079	.21189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20774**	**26.126**	**.19846**	**-.1152**	**.19946**
Stddev	.00045	.063	.00003	.1091	.00040
%RSD	.21727	.24281	.01517	94.67	.20192
#1	.20742	26.081	.19844	-.1924	.19918
#2	.20806	26.171	.19848	-.0381	.19975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20085**	**.20550**	**10.357**	**11.406**	**.19501**
Stddev	.00021	.00099	.034	.048	.00140
%RSD	.10364	.48395	.32472	.41773	.71535
#1	.20099	.20621	10.333	11.373	.19403
#2	.20070	.20480	10.381	11.440	.19600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198437-C-6-F MSD Acquired: 6/14/2022 22:42:32 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.177**	**.33011**	**.21723**	**29.704**	**.19557**
Stddev	.005	.00002	.00039	.059	.00056
%RSD	.04083	.00742	.17810	.19788	.28574
#1	13.173	.33009	.21750	29.662	.19596
#2	13.181	.33012	.21695	29.746	.19517
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.19923**	**15.792**	**.20623**	**.19315**
Stddev	.00	.00046	.007	.00199	.00146
%RSD	.0019	.23064	.04370	.96615	.75622
#1	25.04	.19891	15.797	.20482	.19418
#2	25.04	.19956	15.787	.20763	.19211
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.103**	**.24303**	**.26253**	**1.008**	**.20399**
Stddev	.058	.00093	.00105	.001	.00022
%RSD	.38087	.38083	.40093	.0711	.10677
#1	15.063	.24368	.26179	1.008	.20414
#2	15.144	.24237	.26328	1.009	.20383
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198437-C-6-F MSD Acquired: 6/14/2022 22:42:32 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20184**	**.20004**	**.20062**	**.9996**
Stddev	.00010	.00005	.00102	.0005
%RSD	.05057	.02430	.50699	.0491
#1	.20191	.20000	.20134	.9999
#2	.20176	.20007	.19990	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3556.2**	**3404.4**	**69906.**	**5140.0**
Stddev	1.7	3.0	2.	1.4
%RSD	.04768	.08867	.00267	.02725
#1	3555.0	3402.3	69905.	5139.1
#2	3557.4	3406.6	69907.	5141.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.802%	97.363%	96.528%	98.213%
Range				

Sample Name: MB 480-629818/1-A Acquired: 6/14/2022 22:46:12 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00839**	**.00287**	**.00110**	**.00006**
Stddev	.00060	.00798	.00124	.00054	.00001
%RSD	350.90	95.214	43.295	49.224	11.859
#1	-.00059	.01403	.00375	.00072	.00005
#2	.00025	.00274	.00199	.00148	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.02312**	**.00004**	**-.1723**	**.00028**
Stddev	.00001	.00028	.00003	.0085	.00009
%RSD	6.8109	1.2069	57.628	4.911	31.145
#1	.00012	.02292	.00006	-.1663	.00034
#2	.00013	.02332	.00003	-.1783	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00019**	**.00308**	**.03407**	**.00027**
Stddev	.00005	.00043	.00096	.00330	.00146
%RSD	45.324	226.06	31.145	9.6836	536.60
#1	-.00008	.00049	.00376	.03640	-.00076
#2	-.00016	-.00011	.00241	.03174	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629818/1-A Acquired: 6/14/2022 22:46:12 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**-.00010**	**-.00064**	**.25537**	**.00025**
Stddev	.00125	.00003	.00024	.00096	.00013
%RSD	241.24	28.616	37.880	.37655	52.331
#1	.00037	-.00011	-.00081	.25469	.00034
#2	-.00140	-.00008	-.00047	.25605	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00132**	**.00906**	**.00018**	**.00145**
Stddev	.00	.00033	.00342	.00016	.00186
%RSD	.0003	24.919	37.782	88.744	128.10
#1	25.00	.00155	.00664	.00029	.00277
#2	25.00	.00109	.01147	.00007	.00014
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01518**	**-.00034**	**.00014**	**1.002**	**-.00044**
Stddev	.00855	.00034	.00001	.005	.00003
%RSD	56.341	98.118	5.8583	.5089	7.7037
#1	-.02123	-.00058	.00013	.9985	-.00042
#2	-.00913	-.00010	.00014	1.006	-.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629818/1-A Acquired: 6/14/2022 22:46:12 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00119**	**-.00006**	**-.00066**	**.9995**
Stddev	.00042	.00019	.00003	.0003
%RSD	35.770	337.09	4.5193	.0257
#1	.00149	.00008	-.00064	.9997
#2	.00089	-.00020	-.00068	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3831.8**	**3456.3**	**71631.**	**5111.7**
Stddev	.9	3.2	118.	3.8
%RSD	.02477	.09374	.16488	.07420
#1	3831.1	3458.6	71715.	5114.4
#2	3832.5	3454.0	71548.	5109.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.915%	98.847%	98.911%	97.671%
Range				

Sample Name: CCV-7032336 Acquired: 6/14/2022 22:50:07 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0206**	**50.661**	**1.0054**	**1.0409**	**1.0007**
Stddev	.0017	.140	.0009	.0007	.0035
%RSD	.16228	.27642	.09139	.06984	.34682
#1	1.0218	50.760	1.0061	1.0404	1.0032
#2	1.0194	50.562	1.0048	1.0414	.99825
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0190**	**50.454**	**1.0187**	**.9956**	**1.0034**
Stddev	.0050	.199	.0001	.0379	.0012
%RSD	.49336	.39370	.00463	3.807	.12156
#1	1.0226	50.595	1.0186	.9688	1.0043
#2	1.0155	50.314	1.0187	1.022	1.0026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0239**	**1.0179**	**51.122**	**50.616**	**.99303**
Stddev	.0028	.0001	.077	.193	.00005
%RSD	.27479	.00627	.15109	.38116	.00497
#1	1.0258	1.0180	51.177	50.753	.99307
#2	1.0219	1.0179	51.068	50.480	.99300
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 22:50:07 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.588**	**1.0226**	**1.0197**	**50.295**	**1.0088**
Stddev	.038	.0011	.0020	.198	.0028
%RSD	.07416	.11022	.19593	.39421	.27767
#1	50.614	1.0234	1.0211	50.435	1.0108
#2	50.561	1.0218	1.0183	50.155	1.0069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.65**	**1.0084**	**25.263**	**1.0126**	**1.0104**
Stddev	.01	.0014	.031	.0016	.0071
%RSD	.0222	.13786	.12229	.15660	.69937
#1	37.66	1.0093	25.241	1.0114	1.0154
#2	37.65	1.0074	25.284	1.0137	1.0054
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.029**	**1.0051**	**1.0053**	**1.513**	**1.0150**
Stddev	.004	.0020	.0040	.001	.0017
%RSD	.04195	.20316	.39388	.0738	.16404
#1	10.026	1.0066	1.0081	1.513	1.0162
#2	10.032	1.0037	1.0025	1.512	1.0138
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 22:50:07 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0237**	**1.0176**	**1.0263**	**1.506**
Stddev	.0037	.0011	.0032	.003
%RSD	.35700	.10838	.31339	.2166
#1	1.0263	1.0183	1.0285	1.508
#2	1.0211	1.0168	1.0240	1.503
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3362.2**	**3350.6**	**67968.**	**5044.8**
Stddev	5.0	1.0	13.	16.8
%RSD	.14742	.03073	.01880	.33229
#1	3358.7	3351.4	67959.	5033.0
#2	3365.7	3349.9	67977.	5056.7

Sample Name: CCB-7026764 Acquired: 6/14/2022 22:53:47 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00687**	**.00279**	**.00097**	**.00005**
Stddev	.00015	.00623	.00055	.00032	.00002
%RSD	154.02	90.730	19.731	32.985	40.436
#1	.00020	.00246	.00318	.00120	.00006
#2	-.00001	.01127	.00240	.00075	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**-.00154**	**-.00002**	**-.0792**	**.00019**
Stddev	.00004	.00113	.00004	.0503	.00009
%RSD	36.889	73.308	216.14	63.50	47.772
#1	.00007	-.00234	.00001	-.1148	.00026
#2	.00012	-.00074	-.00005	-.0437	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.00036**	**.00164**	**.03753**	**-.00002**
Stddev	.00052	.00024	.00140	.00969	.00098
%RSD	154.21	66.254	85.291	25.824	5900.1
#1	-.00070	.00053	.00262	.04438	-.00071
#2	.00003	.00019	.00065	.03068	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 22:53:47 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00002**	**.00130**	**.17026**	**.00016**
Stddev	.00135	.00000	.00025	.00575	.00000
%RSD	650.70	19.925	18.877	3.3793	.46741
#1	-.00116	.00002	.00113	.17433	.00016
#2	.00075	.00002	.00148	.16619	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00004**	**-.00443**	**.00006**	**.00191**
Stddev	.00	.00008	.00108	.00023	.00023
%RSD	.0040	191.58	24.447	387.51	12.218
#1	25.00	-.00002	-.00366	.00022	.00174
#2	25.00	.00010	-.00520	-.00010	.00207
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02207**	**.00000**	**.00009**	**1.002**	**-.00009**
Stddev	.00910	.00028	.00003	.001	.00010
%RSD	41.233	6693.8	32.041	.0936	107.70
#1	-.01563	-.00019	.00011	1.003	-.00016
#2	-.02850	.00020	.00007	1.001	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 22:53:47 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00191**	**-.00020**	**-.00125**	**.9999**
Stddev	.00045	.00023	.00049	.0001
%RSD	23.378	111.95	39.480	.0075
#1	.00223	-.00037	-.00090	.9998
#2	.00160	-.00004	-.00160	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3898.8**	**3510.0**	**72354.**	**5127.7**
Stddev	9.2	3.7	213.	28.2
%RSD	.23483	.10486	.29394	.54971
#1	3905.2	3512.6	72203.	5147.7
#2	3892.3	3507.4	72504.	5107.8

Sample Name: CCVL-7028546 Acquired: 6/14/2022 22:57:41 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00647**	**.19419**	**.01509**	**.01971**	**.00217**
Stddev	.00029	.00902	.00004	.00013	.00001
%RSD	4.5182	4.6436	.27938	.65179	.49970
#1	.00626	.20057	.01512	.01980	.00218
#2	.00667	.18781	.01506	.01962	.00216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00218**	**.50646**	**.00217**	**-.0211**	**.00404**
Stddev	.00002	.00041	.00001	.0966	.00015
%RSD	.81024	.08097	.34531	458.0	3.6106
#1	.00217	.50617	.00218	-.0894	.00394
#2	.00219	.50675	.00217	.0472	.00415
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00375**	**.01074**	**.05050**	**.48465**	**.02768**
Stddev	.00038	.00006	.00090	.00533	.00095
%RSD	10.110	.59813	1.7872	1.0999	3.4424
#1	.00349	.01079	.05113	.48842	.02701
#2	.00402	.01070	.04986	.48088	.02835
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/14/2022 22:57:41 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19916**	**.00344**	**.00935**	**1.1463**	**.00994**
Stddev	.00204	.00001	.00012	.0156	.00041
%RSD	1.0249	.31030	1.2655	1.3635	4.0966
#1	.19772	.00345	.00927	1.1574	.01023
#2	.20060	.00343	.00943	1.1352	.00965
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01058**	**.18938**	**.01847**	**.02380**
Stddev	.00	.00094	.00105	.00145	.00028
%RSD	.0020	8.8764	.55378	7.8712	1.1769
#1	25.00	.01125	.18864	.01949	.02400
#2	25.00	.00992	.19012	.01744	.02360
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45102**	**.00888**	**.00510**	F **1.002**	**.00430**
Stddev	.01051	.00041	.00005	.008	.00021
%RSD	2.3292	4.5729	1.0143	.8360	4.8833
#1	.44359	.00859	.00514	.9957	.00415
#2	.45845	.00916	.00506	1.007	.00445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/14/2022 22:57:41 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02185**	**.00505**	**.00946**	F **.9992**
Stddev	.00016	.00006	.00063	.0003
%RSD	.71949	1.1239	6.7003	.0338
#1	.02174	.00501	.00991	.9994
#2	.02196	.00509	.00901	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3882.4**	**3518.6**	**72261.**	**5181.7**
Stddev	3.2	.7	100.	32.8
%RSD	.08273	.01898	.13886	.63263
#1	3880.2	3518.1	72190.	5204.9
#2	3884.7	3519.0	72332.	5158.5

Sample Name: LCS 480-629818/2-A Acquired: 6/14/2022 23:01:34 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04612**	**9.4689**	**.20557**	**.18884**	**.19905**
Stddev	.00080	.0330	.00379	.00065	.00042
%RSD	1.7428	.34842	1.8441	.34666	.21086
#1	.04555	9.4456	.20825	.18931	.19875
#2	.04668	9.4922	.20289	.18838	.19934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21093**	**10.244**	**.20170**	**-.0377**	**.20153**
Stddev	.00004	.018	.00001	.0069	.00026
%RSD	.01873	.17300	.00549	18.16	.12864
#1	.21090	10.232	.20170	-.0329	.20171
#2	.21096	10.257	.20169	-.0426	.20135
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20554**	**.20855**	**10.407**	**9.3778**	**.18283**
Stddev	.00050	.00001	.015	.0625	.00053
%RSD	.24498	.00692	.14389	.66673	.29090
#1	.20519	.20856	10.418	9.3336	.18320
#2	.20590	.20854	10.397	9.4220	.18245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629818/2-A Acquired: 6/14/2022 23:01:34 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.483**	**.20836**	**.20787**	**9.3622**	**.19757**
Stddev	.035	.00034	.00077	.0134	.00032
%RSD	.33193	.16196	.37182	.14294	.16397
#1	10.458	.20813	.20842	9.3527	.19780
#2	10.507	.20860	.20733	9.3716	.19734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.20339**	**9.7307**	**.21146**	**.20105**
Stddev	.00	.00033	.0246	.00143	.00135
%RSD	.0018	.16157	.25256	.67853	.67276
#1	25.00	.20316	9.7481	.21248	.20009
#2	25.00	.20363	9.7133	.21045	.20201
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.9913**	**.21679**	**.19023**	**1.010**	**.20638**
Stddev	.0232	.00070	.00046	.003	.00029
%RSD	.25789	.32466	.24042	.2722	.13978
#1	8.9749	.21629	.18990	1.008	.20618
#2	9.0077	.21729	.19055	1.012	.20659
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629818/2-A Acquired: 6/14/2022 23:01:34 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20730**	**.20330**	**.20509**	**1.001**
Stddev	.00096	.00005	.00086	.000
%RSD	.46333	.02487	.41780	.0337
#1	.20662	.20326	.20449	1.000
#2	.20798	.20333	.20570	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3685.8**	**3472.8**	**71365.**	**5221.7**
Stddev	10.8	8.4	174.	10.2
%RSD	.29222	.24100	.24434	.19569
#1	3678.2	3466.9	71488.	5228.9
#2	3693.4	3478.8	71241.	5214.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.146%	99.320%	98.543%	99.772%
Range				

Sample Name: 480-198859-E-1-A Acquired: 6/14/2022 23:05:15 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.09930**	**.00179**	**.01264**	**.02634**
Stddev	.00015	.00049	.00054	.00004	.00006
%RSD	3184.1	.49804	29.839	.29162	.22123
#1	.00010	.09965	.00217	.01267	.02630
#2	-.00011	.09895	.00142	.01261	.02638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**39.584**	**.00014**	**-.0562**	**.00040**
Stddev	.00005	.140	.00009	.0320	.00006
%RSD	52.592	.35251	64.857	56.94	15.976
#1	.00006	39.486	.00020	-.0336	.00045
#2	.00012	39.683	.00007	-.0788	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00027**	**.84455**	**.83245**	**.00206**
Stddev	.00020	.00007	.00688	.01070	.00040
%RSD	129.37	26.530	.81514	1.2852	19.379
#1	-.00001	.00022	.83968	.84001	.00234
#2	-.00029	.00032	.84941	.82488	.00177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198859-E-1-A Acquired: 6/14/2022 23:05:15 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.9869**	**.43085**	**-.00064**	**26.684**	**.00051**
Stddev	.0202	.00151	.00023	.083	.00019
%RSD	.28863	.34977	36.186	.31068	38.139
#1	6.9727	.42979	-.00080	26.626	.00064
#2	7.0012	.43192	-.00047	26.743	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00267**	**.43081**	**-.00075**	**-.00182**
Stddev	.00	.00001	.00210	.00030	.00470
%RSD	.0022	.53029	.48783	40.271	257.82
#1	25.03	.00268	.43230	-.00097	-.00514
#2	25.03	.00266	.42932	-.00054	.00150
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.6823**	**.00019**	**.07004**	**1.005**	**.00074**
Stddev	.0336	.00036	.00029	.000	.00018
%RSD	1.2510	185.97	.41575	.0381	23.920
#1	2.6586	-.00006	.06983	1.005	.00086
#2	2.7061	.00045	.07025	1.004	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198859-E-1-A Acquired: 6/14/2022 23:05:15 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00281**	**.00019**	**.00119**	**.9998**
Stddev	.00013	.00009	.00030	.0003
%RSD	4.5225	44.942	25.390	.0319
#1	.00290	.00025	.00140	1.000
#2	.00272	.00013	.00097	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3591.2**	**3391.9**	**69718.**	**5091.4**
Stddev	3.7	1.5	189.	23.3
%RSD	.10233	.04286	.27038	.45745
#1	3588.6	3390.8	69852.	5107.9
#2	3593.8	3392.9	69585.	5074.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.705%	97.004%	96.269%	97.283%
Range				

Sample Name: 480-198859-C-2-A Acquired: 6/14/2022 23:09:06 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**4.1763**	**.00634**	**.10470**	**.09731**
Stddev	.00035	.0179	.00028	.00011	.00030
%RSD	692.30	.42782	4.4165	.10356	.31009
#1	-.00020	4.1637	.00615	.10477	.09710
#2	.00030	4.1889	.00654	.10462	.09752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**87.478**	**.00015**	**.0020**	**.00146**
Stddev	.00003	.135	.00003	.0484	.00002
%RSD	10.330	.15458	18.111	2474.	1.2202
#1	.00029	87.383	.00013	-.0323	.00145
#2	.00025	87.574	.00017	.0362	.00147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00436**	**.01197**	**4.1602**	**3.4693**	**.00943**
Stddev	.00004	.00016	.0089	.0132	.00032
%RSD	.96772	1.3629	.21348	.38016	3.4295
#1	.00433	.01208	4.1539	3.4600	.00966
#2	.00439	.01185	4.1665	3.4786	.00920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198859-C-2-A Acquired: 6/14/2022 23:09:06 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.690**	**.45267**	**.00226**	**21.512**	**.00566**
Stddev	.046	.00065	.00018	.033	.00020
%RSD	.23144	.14318	7.8203	.15157	3.5484
#1	19.658	.45221	.00214	21.535	.00580
#2	19.722	.45313	.00239	21.489	.00552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.01051**	**29.294**	**.00233**	**-.00340**
Stddev	.00	.00168	.025	.00013	.00254
%RSD	.0036	16.015	.08537	5.4094	74.678
#1	25.04	.01169	29.311	.00224	-.00520
#2	25.04	.00932	29.276	.00241	-.00161
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5422**	**.00039**	**.16041**	**1.003**	**.10140**
Stddev	.0425	.00050	.00014	.000	.00254
%RSD	.44522	128.11	.08993	.0308	2.5030
#1	9.5723	.00004	.16031	1.003	.09961
#2	9.5122	.00074	.16051	1.003	.10320
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198859-C-2-A Acquired: 6/14/2022 23:09:06 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00268**	**.00736**	**.04074**	**1.002**
Stddev	.00006	.00026	.00051	.000
%RSD	2.3009	3.5416	1.2555	.0175
#1	.00263	.00755	.04038	1.002
#2	.00272	.00718	.04111	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3528.2**	**3381.4**	**69736.**	**5143.2**
Stddev	.8	4.3	103.	24.7
%RSD	.02292	.12773	.14774	.47987
#1	3527.6	3378.4	69809.	5160.6
#2	3528.8	3384.5	69663.	5125.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.077%	96.706%	96.294%	98.272%
Range				

Sample Name: 480-198859-C-3-A Acquired: 6/14/2022 23:12:53 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.14409**	**.00525**	**.36895**	**.05643**
Stddev	.00060	.04142	.00112	.00026	.00007
%RSD	540.18	28.747	21.396	.07078	.12471
#1	.00054	.17338	.00604	.36913	.05648
#2	-.00031	.11480	.00446	.36876	.05638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**62.919**	**.00010**	**-.0582**	**.00024**
Stddev	.00014	.206	.00010	.0665	.00003
%RSD	167.23	.32784	97.078	114.3	12.962
#1	-.00002	63.065	.00003	-.0112	.00027
#2	.00018	62.773	.00017	-.1052	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00012**	**.43366**	**2.0880**	**.00228**
Stddev	.00025	.00008	.00061	.0034	.00111
%RSD	94.016	67.215	.14063	.16478	48.510
#1	.00044	.00006	.43409	2.0904	.00150
#2	.00009	.00018	.43323	2.0856	.00306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198859-C-3-A Acquired: 6/14/2022 23:12:53 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6653**	**.34102**	**.00100**	**18.753**	**.00292**
Stddev	.0003	.00071	.00000	.080	.00024
%RSD	.00338	.20761	.43153	.42409	8.2929
#1	9.6651	.34152	.00099	18.809	.00310
#2	9.6655	.34052	.00100	18.696	.00275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00166**	**21.391**	**-.00072**	**-.00478**
Stddev	.00	.00047	.015	.00185	.00398
%RSD	.0012	28.199	.06916	257.46	83.273
#1	25.03	.00199	21.381	.00059	-.00760
#2	25.03	.00133	21.402	-.00203	-.00197
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.59602**	**.00008**	**.12958**	**1.004**	**.00160**
Stddev	.00332	.00083	.00027	.002	.00014
%RSD	.55711	1110.2	.20819	.2287	8.5436
#1	.59837	.00067	.12977	1.006	.00150
#2	.59367	-.00051	.12939	1.002	.00169
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198859-C-3-A Acquired: 6/14/2022 23:12:53 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00296**	**.00013**	**.00125**	**1.001**
Stddev	.00045	.00026	.00033	.000
%RSD	15.150	202.54	26.294	.0161
#1	.00264	-.00006	.00148	1.001
#2	.00327	.00031	.00101	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3601.9**	**3394.8**	**70159.**	**5160.0**
Stddev	6.0	3.1	209.	9.7
%RSD	.16545	.09057	.29733	.18736
#1	3597.7	3392.6	70011.	5153.2
#2	3606.2	3397.0	70306.	5166.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.981%	97.087%	96.878%	98.595%
Range				

Sample Name: 480-198859-C-4-A Acquired: 6/14/2022 23:16:42 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.45126**	**.00486**	**.01550**	**.02694**
Stddev	.00055	.02296	.00176	.00024	.00003
%RSD	586.05	5.0870	36.248	1.5362	.09935
#1	-.00030	.43503	.00362	.01567	.02692
#2	.00048	.46749	.00611	.01533	.02696
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**48.838**	**.00011**	**-.0609**	**.00027**
Stddev	.00006	.094	.00001	.0228	.00002
%RSD	44.341	.19203	7.8384	37.44	7.6163
#1	.00010	48.905	.00011	-.0448	.00028
#2	.00019	48.772	.00010	-.0771	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.00179**	**.52795**	**1.2131**	**.00317**
Stddev	.00007	.00004	.00031	.0039	.00074
%RSD	15.717	2.1198	.05915	.32253	23.340
#1	.00042	.00182	.52817	1.2103	.00265
#2	.00053	.00176	.52773	1.2159	.00370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198859-C-4-A Acquired: 6/14/2022 23:16:42 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.085**	**.05733**	**.00230**	**3.0979**	**.00145**
Stddev	.015	.00007	.00002	.0004	.00020
%RSD	.11600	.11446	.76983	.01187	13.726
#1	13.074	.05737	.00228	3.0982	.00159
#2	13.096	.05728	.00231	3.0977	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00127**	**41.408**	**-.00123**	**-.00234**
Stddev	.00	.00067	.031	.00342	.00898
%RSD	.0003	52.839	.07452	278.64	384.49
#1	25.02	.00174	41.386	.00119	-.00868
#2	25.02	.00079	41.430	-.00365	.00401
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.87117**	**-.00016**	**.11174**	**1.003**	**.00835**
Stddev	.00364	.00007	.00011	.002	.00161
%RSD	.41801	43.586	.09693	.2134	19.242
#1	.86859	-.00011	.11166	1.005	.00949
#2	.87374	-.00021	.11182	1.002	.00722
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198859-C-4-A Acquired: 6/14/2022 23:16:42 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00130**	**.00090**	**.00444**	**.9998**
Stddev	.00003	.00041	.00152	.0005
%RSD	2.0809	45.655	34.369	.0469
#1	.00132	.00061	.00336	.9995
#2	.00128	.00119	.00551	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3685.6**	**3433.6**	**71094.**	**5165.8**
Stddev	5.6	3.7	100.	2.6
%RSD	.15322	.10871	.14095	.04958
#1	3689.6	3436.3	71165.	5167.6
#2	3681.6	3431.0	71023.	5164.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.141%	98.199%	98.169%	98.704%
Range				

Sample Name: 480-198859-C-4-Asd@5 Acquired: 6/14/2022 23:20:33 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.16931**	**.00141**	**.00307**	**.00577**
Stddev	.00082	.00620	.00253	.00018	.00001
%RSD	233.64	3.6592	179.07	5.8865	.25788
#1	.00093	.17369	-.00038	.00320	.00576
#2	-.00023	.16493	.00320	.00295	.00578
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**10.047**	**.00003**	**-.0486**	**.00006**
Stddev	.00009	.006	.00006	.1369	.00006
%RSD	106.92	.06005	182.02	281.8	116.37
#1	.00002	10.042	.00007	.0482	.00010
#2	.00015	10.051	-.00001	-.1454	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.00035**	**.11129**	**.26919**	**.00072**
Stddev	.00061	.00025	.00090	.00358	.00121
%RSD	111.06	71.377	.80639	1.3313	166.95
#1	-.00099	.00017	.11192	.26666	.00158
#2	-.00012	.00053	.11065	.27172	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198859-C-4-Asd@5 Acquired: 6/14/2022 23:20:33 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.6461**	**.01162**	**-.00068**	**.75938**	**.00018**
Stddev	.0074	.00010	.00006	.00668	.00012
%RSD	.27817	.83661	8.8437	.87976	66.066
#1	2.6409	.01155	-.00072	.76411	.00010
#2	2.6513	.01169	-.00064	.75466	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00097**	**8.2065**	**.00038**	**-.00093**
Stddev	.00	.00056	.0002	.00136	.00260
%RSD	.0045	57.838	.00197	354.66	278.51
#1	25.00	.00057	8.2064	.00134	.00091
#2	25.00	.00137	8.2067	-.00058	-.00277
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20908**	**.00036**	**.02292**	**.9999**	**.00293**
Stddev	.01364	.00003	.00002	.0015	.00115
%RSD	6.5217	9.5608	.09033	.1464	39.362
#1	.21872	.00033	.02290	1.001	.00212
#2	.19944	.00038	.02293	.9988	.00375
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198859-C-4-Asd@5 Acquired: 6/14/2022 23:20:33 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00153**	**.00004**	**.00024**	**.9999**
Stddev	.00018	.00021	.00062	.0003
%RSD	12.091	519.87	255.46	.0262
#1	.00166	.00019	.00068	.9997
#2	.00140	-.00011	-.00020	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3845.1**	**3500.0**	**72315.**	**5086.2**
Stddev	6.3	9.0	9.	19.4
%RSD	.16403	.25827	.01285	.38180
#1	3840.7	3493.6	72321.	5099.9
#2	3849.6	3506.4	72308.	5072.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.259%	100.10%	99.854%	97.184%
Range				

Sample Name: 480-198859-C-4-APDS Acquired: 6/14/2022 23:24:23 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05152**	**11.018**	**.21696**	**.22637**	**.24459**
Stddev	.00065	.033	.00093	.00070	.00024
%RSD	1.2540	.29692	.42914	.31003	.09835
#1	.05198	11.041	.21762	.22686	.24476
#2	.05107	10.995	.21630	.22587	.24442
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21793**	**57.642**	**.21009**	**-.0789**	**.20807**
Stddev	.00004	.080	.00016	.0353	.00013
%RSD	.01830	.13901	.07490	44.74	.06345
#1	.21796	57.699	.21020	-.0539	.20816
#2	.21791	57.585	.20998	-.1039	.20797
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21357**	**.22007**	**11.074**	**11.647**	**.20892**
Stddev	.00101	.00094	.006	.037	.00030
%RSD	.47483	.42718	.05390	.31458	.14285
#1	.21428	.21940	11.069	11.673	.20913
#2	.21285	.22073	11.078	11.621	.20871
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198859-C-4-APDS Acquired: 6/14/2022 23:24:23 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.489**	**.27384**	**.21927**	**13.201**	**.20509**
Stddev	.018	.00013	.00061	.005	.00016
%RSD	.07613	.04587	.27655	.03651	.07586
#1	23.502	.27393	.21970	13.205	.20520
#2	23.477	.27375	.21884	13.198	.20498
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.21034**	**50.834**	**.22512**	**.20148**
Stddev	.00	.00140	.118	.00078	.00094
%RSD	.0032	.66504	.23298	.34762	.46434
#1	25.02	.21132	50.918	.22567	.20214
#2	25.02	.20935	50.750	.22456	.20081
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.262**	**.20953**	**.32000**	**1.008**	**.22246**
Stddev	.005	.00000	.00003	.001	.00158
%RSD	.04360	.00046	.00791	.0602	.70909
#1	11.265	.20953	.32002	1.008	.22357
#2	11.258	.20953	.31998	1.009	.22134
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198859-C-4-APDS Acquired: 6/14/2022 23:24:23 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21699**	**.21057**	**.21278**	**1.001**
Stddev	.00127	.00028	.00063	.000
%RSD	.58320	.13106	.29380	.0303
#1	.21788	.21038	.21234	1.001
#2	.21609	.21077	.21322	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3557.3**	**3409.1**	**70426.**	**5193.6**
Stddev	1.8	2.0	72.	9.9
%RSD	.05026	.05838	.10223	.19111
#1	3558.5	3407.7	70375.	5186.6
#2	3556.0	3410.5	70477.	5200.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.828%	97.498%	97.247%	99.236%
Range				

Sample Name: 480-198859-C-4-B MS Acquired: 6/14/2022 23:28:05 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04933**	**10.550**	**.20781**	**.21415**	**.23403**
Stddev	.00008	.024	.00015	.00017	.00006
%RSD	.16248	.23022	.07207	.07757	.02590
#1	.04939	10.567	.20792	.21404	.23399
#2	.04927	10.533	.20771	.21427	.23408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21310**	**58.622**	**.20134**	**-.0629**	**.19985**
Stddev	.00021	.099	.00006	.0426	.00034
%RSD	.09690	.16887	.02988	67.78	.16788
#1	.21295	58.552	.20138	-.0328	.20008
#2	.21324	58.692	.20130	-.0930	.19961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20459**	**.21103**	**10.893**	**11.243**	**.19998**
Stddev	.00056	.00048	.033	.035	.00076
%RSD	.27144	.22887	.30536	.31430	.38053
#1	.20498	.21069	10.869	11.218	.19944
#2	.20420	.21137	10.916	11.268	.20052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198859-C-4-B MS Acquired: 6/14/2022 23:28:05 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.203**	**.26104**	**.21315**	**12.895**	**.19658**
Stddev	.008	.00015	.00043	.012	.00026
%RSD	.03389	.05869	.20024	.09360	.13448
#1	23.197	.26093	.21345	12.887	.19677
#2	23.209	.26115	.21285	12.904	.19639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.20112**	**51.498**	**.20725**	**.19968**
Stddev	.00	.00044	.008	.00211	.00421
%RSD	.0014	.21629	.01645	1.0198	2.1089
#1	25.02	.20143	51.492	.20875	.20265
#2	25.02	.20082	51.504	.20576	.19670
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.419**	**.24105**	**.31102**	**1.009**	**.21640**
Stddev	.083	.00011	.00045	.002	.00133
%RSD	.79606	.04590	.14430	.1872	.61685
#1	10.360	.24113	.31070	1.008	.21735
#2	10.477	.24098	.31134	1.010	.21546
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198859-C-4-B MS Acquired: 6/14/2022 23:28:05 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20527**	**.20328**	**.20319**	**1.001**
Stddev	.00181	.00007	.00028	.001
%RSD	.88051	.03281	.14005	.1243
#1	.20399	.20333	.20299	1.000
#2	.20655	.20323	.20339	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3558.1**	**3400.4**	**70469.**	**5132.3**
Stddev	1.6	.9	28.	19.5
%RSD	.04563	.02590	.04008	.37977
#1	3557.0	3399.8	70449.	5146.0
#2	3559.3	3401.0	70489.	5118.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.851%	97.248%	97.305%	98.064%
Range				

Sample Name: 480-198859-C-4-C MSD Acquired: 6/14/2022 23:31:46 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04981**	**10.722**	**.20977**	**.21883**	**.23873**
Stddev	.00011	.014	.00219	.00018	.00031
%RSD	.21770	.13295	1.0439	.08285	.12794
#1	.04973	10.732	.21132	.21871	.23895
#2	.04989	10.712	.20822	.21896	.23852
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21267**	**58.841**	**.20271**	**-.1127**	**.20130**
Stddev	.00077	.078	.00060	.0118	.00015
%RSD	.36300	.13250	.29474	10.43	.07688
#1	.21212	58.786	.20314	-.1044	.20141
#2	.21321	58.896	.20229	-.1211	.20119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20683**	**.21270**	**10.918**	**11.493**	**.20281**
Stddev	.00087	.00013	.045	.061	.00205
%RSD	.42067	.06292	.41412	.52782	1.0091
#1	.20745	.21280	10.886	11.450	.20136
#2	.20621	.21261	10.950	11.535	.20426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198859-C-4-C MSD Acquired: 6/14/2022 23:31:46 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.434**	**.26435**	**.21438**	**13.105**	**.19850**
Stddev	.087	.00085	.00069	.035	.00027
%RSD	.37261	.32062	.31955	.26680	.13623
#1	23.495	.26495	.21487	13.080	.19870
#2	23.372	.26375	.21390	13.130	.19831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.20319**	**52.158**	**.21127**	**.20295**
Stddev	.00	.00002	.084	.00191	.00060
%RSD	.0052	.01008	.16043	.90566	.29566
#1	25.02	.20317	52.099	.21262	.20338
#2	25.02	.20320	52.217	.20992	.20253
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.888**	**.24436**	**.31662**	**1.008**	**.21607**
Stddev	.064	.00011	.00050	.002	.00001
%RSD	.59004	.04376	.15673	.2340	.00405
#1	10.843	.24444	.31627	1.010	.21606
#2	10.933	.24428	.31697	1.006	.21607
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198859-C-4-C MSD Acquired: 6/14/2022 23:31:46 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20708**	**.20501**	**.20409**	**1.001**
Stddev	.00079	.00052	.00104	.000
%RSD	.37948	.25387	.50723	.0071
#1	.20653	.20538	.20483	1.001
#2	.20764	.20464	.20336	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3546.2**	**3395.6**	**70085.**	**5143.8**
Stddev	7.7	2.9	89.	2.4
%RSD	.21815	.08589	.12705	.04718
#1	3540.7	3393.6	70022.	5145.5
#2	3551.7	3397.7	70148.	5142.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.543%	97.112%	96.776%	98.285%
Range				

Sample Name: CCV-7032336 Acquired: 6/14/2022 23:35:28 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0136**	**49.727**	**1.0071**	**1.0351**	**.98196**
Stddev	.0014	.126	.0010	.0020	.00089
%RSD	.14101	.25371	.10177	.19027	.09101
#1	1.0126	49.637	1.0079	1.0337	.98259
#2	1.0147	49.816	1.0064	1.0365	.98133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0063**	**49.673**	**1.0138**	**1.030**	**.99891**
Stddev	.0008	.056	.0002	.053	.00102
%RSD	.08118	.11360	.01568	5.163	.10210
#1	1.0058	49.633	1.0139	1.068	.99819
#2	1.0069	49.713	1.0137	.9927	.99963
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0315**	**1.0273**	**51.040**	**50.450**	**.97398**
Stddev	.0019	.0011	.164	.004	.00181
%RSD	.18244	.10899	.32100	.00778	.18541
#1	1.0302	1.0281	50.925	50.448	.97270
#2	1.0329	1.0265	51.156	50.453	.97525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 23:35:28 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.179**	**1.0269**	**1.0224**	**49.807**	**1.0107**
Stddev	.084	.0011	.0007	.015	.0006
%RSD	.16791	.10362	.06530	.03034	.05910
#1	50.120	1.0261	1.0229	49.797	1.0103
#2	50.239	1.0276	1.0219	49.818	1.0111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.60**	**1.0107**	**25.291**	**1.0062**	**1.0168**
Stddev	.01	.0003	.014	.0051	.0024
%RSD	.0157	.02998	.05360	.50868	.23897
#1	37.59	1.0105	25.282	1.0026	1.0151
#2	37.60	1.0110	25.301	1.0099	1.0185
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8671**	**1.0025**	**.99984**	**1.502**	**1.0195**
Stddev	.0358	.0002	.00045	.006	.0024
%RSD	.36259	.02082	.04507	.3796	.23465
#1	9.8418	1.0027	.99952	1.506	1.0178
#2	9.8924	1.0024	1.0002	1.498	1.0212
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/14/2022 23:35:28 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0237**	**1.0245**	**1.0217**	**1.505**
Stddev	.0014	.0023	.0046	.001
%RSD	.13349	.22818	.44711	.0960
#1	1.0246	1.0229	1.0185	1.504
#2	1.0227	1.0262	1.0249	1.506
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3378.3**	**3363.1**	**68319.**	**5098.2**
Stddev	2.7	3.8	82.	14.3
%RSD	.08033	.11308	.11945	.28021
#1	3380.2	3365.8	68376.	5108.3
#2	3376.4	3360.4	68261.	5088.1

Sample Name: CCB-7026764 Acquired: 6/14/2022 23:39:09 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.00362**	**.00333**	**.00090**	**.00003**
Stddev	.00032	.03369	.00312	.00070	.00003
%RSD	17735.	929.94	93.622	77.107	90.436
#1	-.00023	-.02020	.00113	.00139	.00001
#2	.00023	.02745	.00554	.00041	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.00430**	**.00002**	**-.0376**	**.00012**
Stddev	.00003	.00178	.00004	.0155	.00021
%RSD	46.802	41.424	202.93	41.31	183.53
#1	.00008	-.00304	.00005	-.0266	.00027
#2	.00004	-.00555	-.00001	-.0486	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00036**	**.00224**	**.02338**	**.00221**
Stddev	.00046	.00005	.00127	.00871	.00139
%RSD	376.31	12.862	56.685	37.244	62.776
#1	.00020	.00033	.00134	.02954	.00319
#2	-.00044	.00039	.00314	.01723	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 23:39:09 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00183**	**.00002**	**.00144**	**.12196**	**.00017**
Stddev	.00270	.00002	.00048	.00063	.00013
%RSD	147.10	129.24	33.167	.51356	72.681
#1	.00007	.00000	.00110	.12152	.00008
#2	-.00374	.00004	.00178	.12240	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00027**	**.00263**	**-.00000**	**.00608**
Stddev	.00	.00024	.00014	.00063	.00395
%RSD	.0001	89.094	5.2857	70795.	64.926
#1	25.00	.00010	.00253	-.00044	.00329
#2	25.00	.00045	.00273	.00044	.00887
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01892**	**.00100**	**.00003**	**1.002**	**-.00049**
Stddev	.00667	.00029	.00007	.002	.00011
%RSD	35.265	29.041	196.75	.1951	21.648
#1	-.01420	.00080	.00008	1.001	-.00041
#2	-.02364	.00121	-.00001	1.004	-.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 23:39:09 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00236**	**-.00050**	**-.00152**	**1.000**
Stddev	.00081	.00014	.00032	.000
%RSD	34.586	27.328	20.812	.0222
#1	.00178	-.00060	-.00130	1.000
#2	.00293	-.00040	-.00174	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3905.4**	**3510.8**	**72240.**	**5163.8**
Stddev	4.8	1.5	101.	34.8
%RSD	.12252	.04245	.13946	.67441
#1	3908.8	3511.8	72312.	5188.4
#2	3902.0	3509.7	72169.	5139.2

Sample Name: CCVL-7028546 Acquired: 6/14/2022 23:43:03 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00565**	**.20850**	**.01465**	**.01959**	**.00216**
Stddev	.00035	.00198	.00058	.00026	.00002
%RSD	6.1861	.94919	3.9605	1.3040	.90633
#1	.00590	.20711	.01506	.01977	.00215
#2	.00540	.20990	.01424	.01941	.00218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00211**	**.50225**	**.00201**	**-.1118**	**.00401**
Stddev	.00004	.00261	.00012	.1279	.00005
%RSD	2.0891	.51980	6.1350	114.4	1.2685
#1	.00214	.50041	.00192	-.0214	.00398
#2	.00208	.50410	.00209	-.2023	.00405
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00371**	**.01092**	**.05062**	**.46057**	**.02808**
Stddev	.00008	.00065	.00134	.00321	.00038
%RSD	2.1667	5.9959	2.6415	.69657	1.3581
#1	.00377	.01138	.05157	.46284	.02835
#2	.00366	.01045	.04968	.45830	.02781
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/14/2022 23:43:03 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19582**	**.00349**	**.00936**	**1.0933**	**.01023**
Stddev	.00389	.00001	.00036	.0002	.00009
%RSD	1.9873	.22146	3.8291	.02068	.87304
#1	.19857	.00349	.00911	1.0931	.01029
#2	.19306	.00348	.00961	1.0934	.01017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01055**	**.19579**	**.02002**	**.02341**
Stddev	.00	.00032	.00038	.00125	.00390
%RSD	.0005	3.0787	.19640	6.2221	16.662
#1	25.00	.01078	.19606	.01914	.02617
#2	25.00	.01032	.19552	.02090	.02065
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45833**	**.00972**	**.00515**	F **1.004**	**.00447**
Stddev	.01460	.00039	.00000	.001	.00042
%RSD	3.1849	4.0165	.07373	.1399	9.4427
#1	.44801	.00944	.00515	1.003	.00417
#2	.46865	.01000	.00515	1.005	.00476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/14/2022 23:43:03 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02213**	**.00489**	**.00924**	F **.9992**
Stddev	.00112	.00043	.00031	.0008
%RSD	5.0543	8.7584	3.3720	.0752
#1	.02292	.00458	.00946	.9997
#2	.02134	.00519	.00902	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3878.6**	**3507.7**	**72229.**	**5170.2**
Stddev	6.2	4.9	33.	11.6
%RSD	.16079	.13937	.04626	.22448
#1	3874.2	3504.3	72253.	5162.0
#2	3883.0	3511.2	72205.	5178.4

Sample Name: 480-198861-B-1-A Acquired: 6/14/2022 23:46:55 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00233**	**1.0562**	**.00256**	**.16455**	**.18340**
Stddev	.00017	.0100	.00251	.00033	.00046
%RSD	7.1835	.94610	98.238	.19786	.24822
#1	.00221	1.0492	.00078	.16432	.18372
#2	.00245	1.0633	.00433	.16478	.18308
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**38.818**	**.00166**	**-.0565**	**.00074**
Stddev	.00002	.012	.00013	.0655	.00003
%RSD	32.198	.03162	8.0268	115.9	4.6954
#1	.00004	38.826	.00156	-.1029	.00077
#2	.00006	38.809	.00175	-.0102	.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03772**	**.15061**	**1.7549**	**12.614**	**.00486**
Stddev	.00044	.00044	.0015	.006	.00080
%RSD	1.1731	.29212	.08730	.04381	16.497
#1	.03803	.15092	1.7560	12.610	.00430
#2	.03741	.15030	1.7538	12.618	.00543
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198861-B-1-A Acquired: 6/14/2022 23:46:55 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.1315**	**.08316**	**.00756**	**72.978**	**.04437**
Stddev	.0147	.00005	.00034	.224	.00001
%RSD	.28747	.05454	4.5046	.30717	.02011
#1	5.1420	.08320	.00732	73.136	.04436
#2	5.1211	.08313	.00780	72.819	.04438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.02**	**.00712**	**13.372**	**.00598**	**-.00110**
Stddev	.00	.00073	.003	.00124	.00399
%RSD	.0087	10.242	.01950	20.676	363.98
#1	29.03	.00764	13.370	.00510	-.00392
#2	29.02	.00661	13.374	.00685	.00173
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.9694**	**.00992**	**.15014**	**1.007**	**.02938**
Stddev	.0126	.00023	.00011	.002	.00004
%RSD	.18030	2.3358	.07587	.1827	.14152
#1	6.9606	.01008	.15006	1.008	.02935
#2	6.9783	.00976	.15022	1.006	.02941
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198861-B-1-A Acquired: 6/14/2022 23:46:55 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00158**	**.00304**	**.57314**	**1.002**
Stddev	.00110	.00000	.00071	.001
%RSD	69.722	.16029	.12460	.0583
#1	.00235	.00304	.57365	1.002
#2	.00080	.00303	.57264	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3544.1**	**3412.7**	**70051.**	**5251.4**
Stddev	.7	.1	251.	18.8
%RSD	.01879	.00149	.35787	.35814
#1	3543.6	3412.8	69874.	5264.7
#2	3544.5	3412.7	70229.	5238.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.487%	97.601%	96.729%	100.34%
Range				

Sample Name: 480-198861-B-2-A Acquired: 6/14/2022 23:50:42 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.17674**	**.00254**	**.15588**	**.02936**
Stddev	.00023	.01709	.00037	.00096	.00013
%RSD	63.167	9.6716	14.753	.61280	.43503
#1	.00020	.16465	.00280	.15521	.02927
#2	.00052	.18883	.00227	.15656	.02945
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**33.259**	**.00018**	**-.0567**	**.00021**
Stddev	.00010	.108	.00000	.0145	.00001
%RSD	86.270	.32408	.89655	25.54	5.8596
#1	.00018	33.183	.00018	-.0465	.00022
#2	.00004	33.335	.00018	-.0670	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00139**	**.00497**	**.14960**	**12.019**	**.00464**
Stddev	.00022	.00019	.00177	.011	.00040
%RSD	15.832	3.7549	1.1849	.09035	8.5258
#1	.00155	.00510	.14835	12.027	.00492
#2	.00124	.00484	.15085	12.011	.00436
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198861-B-2-A Acquired: 6/14/2022 23:50:42 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.4966**	**.04340**	**.00449**	**118.89**	**.02739**
Stddev	.0012	.00012	.00005	.02	.00005
%RSD	.02682	.28069	1.1652	.02001	.19841
#1	4.4958	.04331	.00445	118.87	.02743
#2	4.4975	.04349	.00453	118.90	.02735
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.13**	**.00299**	**12.244**	**.00116**	**-.00416**
Stddev	.00	.00100	.001	.00040	.00184
%RSD	.0012	33.498	.01117	34.519	44.225
#1	25.13	.00370	12.245	.00088	-.00546
#2	25.13	.00228	12.243	.00144	-.00286
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.7121**	**.00014**	**.11975**	**1.002**	**.00049**
Stddev	.0295	.00016	.00031	.002	.00034
%RSD	.51642	118.53	.25555	.1599	68.567
#1	5.6913	.00002	.11953	1.003	.00025
#2	5.7330	.00025	.11997	1.000	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198861-B-2-A Acquired: 6/14/2022 23:50:42 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00386**	**.00026**	**.05567**	**1.000**
Stddev	.00060	.00009	.00017	.000
%RSD	15.628	34.205	.31019	.0436
#1	.00429	.00020	.05555	1.000
#2	.00343	.00033	.05579	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3483.3**	**3365.5**	**68621.**	**5121.2**
Stddev	.2	4.2	8.	22.9
%RSD	.00641	.12439	.01153	.44700
#1	3483.2	3368.4	68627.	5137.4
#2	3483.5	3362.5	68616.	5105.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.920%	96.249%	94.754%	97.853%
Range				

Sample Name: 480-198861-B-2-B MS Acquired: 6/14/2022 23:54:31 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04967**	**10.154**	**.00175**	**.35288**	**.23571**
Stddev	.00020	.010	.00277	.00038	.00024
%RSD	.40826	.09623	157.76	.10688	.10307
#1	.04981	10.147	.00371	.35261	.23588
#2	.04953	10.161	-.00020	.35315	.23554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**32.847**	**.00030**	**-.0523**	**.00007**
Stddev	.00003	.039	.00014	.0141	.00007
%RSD	42.187	.11909	46.002	27.00	97.221
#1	.00004	32.875	.00020	-.0423	.00012
#2	.00008	32.819	.00040	-.0623	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00181**	**.00433**	**.14445**	**22.102**	**.20347**
Stddev	.00018	.00051	.00294	.043	.00030
%RSD	9.6823	11.654	2.0370	.19388	.14661
#1	.00194	.00398	.14237	22.133	.20368
#2	.00169	.00469	.14653	22.072	.20325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198861-B-2-B MS Acquired: 6/14/2022 23:54:31 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.3987**	**.04254**	**.00432**	**127.39**	**.02722**
Stddev	.0177	.00017	.00008	.18	.00030
%RSD	.40303	.39829	1.9063	.14163	1.1068
#1	4.4112	.04266	.00426	127.51	.02743
#2	4.3861	.04242	.00437	127.26	.02701
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**.00352**	**22.120**	**-.00083**	**-.00272**
Stddev	.00	.00103	.009	.00210	.00067
%RSD	.0019	29.188	.03859	254.03	24.528
#1	25.12	.00280	22.126	-.00231	-.00319
#2	25.12	.00425	22.114	.00066	-.00225
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.230**	**.24718**	**.31784**	**1.004**	**.00152**
Stddev	.067	.00003	.00138	.007	.00125
%RSD	.44250	.01167	.43323	.6703	82.243
#1	15.183	.24716	.31881	.9996	.00241
#2	15.278	.24720	.31687	1.009	.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198861-B-2-B MS Acquired: 6/14/2022 23:54:31 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00295**	**.00021**	**.05467**	**1.000**
Stddev	.00094	.00009	.00093	.000
%RSD	31.849	41.488	1.7052	.0097
#1	.00361	.00015	.05533	1.000
#2	.00228	.00027	.05401	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3458.6**	**3375.0**	**68681.**	**5120.2**
Stddev	2.4	1.8	128.	20.9
%RSD	.07061	.05402	.18694	.40889
#1	3460.3	3373.7	68590.	5135.0
#2	3456.9	3376.3	68771.	5105.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.282%	96.521%	94.836%	97.834%
Range				

Sample Name: 480-198861-B-2-C MSD Acquired: 6/14/2022 23:58:19 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05002**	**10.284**	**.00011**	**.35621**	**.23713**
Stddev	.00008	.091	.00214	.00238	.00016
%RSD	.15940	.88197	1952.2	.66853	.06752
#1	.04996	10.220	-.00140	.35452	.23702
#2	.05008	10.348	.00162	.35789	.23724
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**32.956**	**.00011**	**-.0566**	**.00007**
Stddev	.00003	.187	.00002	.0879	.00012
%RSD	29.958	.56761	22.530	155.3	178.78
#1	.00009	32.824	.00009	-.1187	-.00002
#2	.00014	33.088	.00012	.0056	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00172**	**.00458**	**.14356**	**22.316**	**.20477**
Stddev	.00029	.00037	.00140	.017	.00186
%RSD	16.935	8.1550	.97442	.07635	.90708
#1	.00192	.00431	.14257	22.304	.20609
#2	.00151	.00484	.14455	22.328	.20346
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198861-B-2-C MSD Acquired: 6/14/2022 23:58:19 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.3988**	**.04263**	**.00412**	**128.09**	**.02740**
Stddev	.0115	.00001	.00003	.14	.00007
%RSD	.26166	.02521	.77529	.11250	.25083
#1	4.4070	.04264	.00410	127.99	.02735
#2	4.3907	.04263	.00414	128.19	.02745
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**.00391**	**21.957**	**.00002**	**-.00421**
Stddev	.00	.00025	.068	.00236	.00001
%RSD	.0000	6.4701	.31050	9640.6	.35359
#1	25.12	.00409	21.908	-.00164	-.00420
#2	25.12	.00373	22.005	.00169	-.00422
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.407**	**.24400**	**.32090**	**1.005**	**.00202**
Stddev	.102	.00214	.00125	.004	.00121
%RSD	.65967	.87511	.38936	.3546	59.926
#1	15.336	.24249	.32002	1.007	.00116
#2	15.479	.24551	.32179	1.002	.00287
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198861-B-2-C MSD Acquired: 6/14/2022 23:58:19 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00296**	**.00005**	**.05514**	**1.000**
Stddev	.00038	.00046	.00030	.001
%RSD	12.871	998.24	.54516	.1079
#1	.00323	-.00028	.05535	.9993
#2	.00269	.00037	.05493	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3455.4**	**3378.8**	**69093.**	**5154.3**
Stddev	6.3	5.0	159.	16.6
%RSD	.18349	.14936	.22975	.32221
#1	3459.9	3382.4	68981.	5166.0
#2	3450.9	3375.2	69206.	5142.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.198%	96.631%	95.406%	98.485%
Range				

Sample Name: 480-198868-E-1-A Acquired: 6/15/2022 0:02:07 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00286**	**4.0246**	**.00503**	**.23120**	**.12063**
Stddev	.00012	.0112	.00227	.00007	.00009
%RSD	4.2516	.27700	45.160	.03095	.07398
#1	.00294	4.0324	.00342	.23125	.12056
#2	.00277	4.0167	.00664	.23115	.12069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**54.838**	**.00266**	**.0114**	**.00397**
Stddev	.00006	.174	.00008	.0280	.00008
%RSD	23.625	.31749	3.0063	246.2	1.9509
#1	.00029	54.961	.00260	.0311	.00402
#2	.00021	54.715	.00272	-.0084	.00391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02836**	**.45720**	**12.826**	**3.5900**	**.01498**
Stddev	.00040	.00023	.051	.0209	.00133
%RSD	1.4260	.05047	.39983	.58321	8.8525
#1	.02808	.45737	12.863	3.6048	.01591
#2	.02865	.45704	12.790	3.5752	.01404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198868-E-1-A Acquired: 6/15/2022 0:02:07 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2941**	**.29978**	**.00858**	**34.291**	**.03396**
Stddev	.0169	.00016	.00006	.118	.00022
%RSD	.18129	.05360	.71899	.34417	.63820
#1	9.2822	.29966	.00863	34.374	.03411
#2	9.3060	.29989	.00854	34.207	.03380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.16**	**.21290**	**5.7004**	**.00348**	**-.00328**
Stddev	.00	.00139	.0141	.00178	.00059
%RSD	.0000	.65346	.24750	51.056	17.982
#1	25.16	.21191	5.6904	.00222	-.00286
#2	25.16	.21388	5.7104	.00473	-.00369
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.1430**	**.01003**	**.14944**	**1.010**	**.06906**
Stddev	.0473	.00029	.00056	.001	.00077
%RSD	.66149	2.8847	.37792	.1356	1.1105
#1	7.1764	.00982	.14984	1.011	.06852
#2	7.1096	.01023	.14904	1.009	.06960
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198868-E-1-A Acquired: 6/15/2022 0:02:07 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00185**	**.00998**	**.85469**	**1.001**
Stddev	.00032	.00022	.00304	.000
%RSD	17.327	2.1924	.35543	.0108
#1	.00208	.01013	.85255	1.001
#2	.00162	.00982	.85684	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3527.6**	**3384.4**	**69549.**	**5181.5**
Stddev	6.4	.0	132.	18.9
%RSD	.18023	.00083	.18909	.36396
#1	3523.1	3384.4	69642.	5168.1
#2	3532.1	3384.5	69456.	5194.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.062%	96.792%	96.035%	99.004%
Range				

Sample Name: 480-198868-E-2-A Acquired: 6/15/2022 0:05:53 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.04249**	**.00277**	**.07033**	**.09188**
Stddev	.00063	.01429	.00041	.00023	.00001
%RSD	464.80	33.630	14.887	.32200	.00896
#1	-.00058	.03238	.00306	.07049	.09188
#2	.00031	.05259	.00248	.07017	.09187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**45.583**	**.00062**	**.0014**	**.00011**
Stddev	.00003	.031	.00007	.0401	.00013
%RSD	103.76	.06897	11.956	2791.	111.68
#1	.00001	45.605	.00067	-.0269	.00020
#2	.00005	45.560	.00056	.0298	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.14177**	**.29765**	**1.7994**	**.00729**
Stddev	.00008	.00061	.00053	.0030	.00061
%RSD	219.45	.42705	.17746	.16571	8.3259
#1	-.00002	.14220	.29727	1.8015	.00686
#2	.00010	.14134	.29802	1.7973	.00772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198868-E-2-A Acquired: 6/15/2022 0:05:53 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.8461**	**.02996**	**-.00004**	**22.545**	**.00709**
Stddev	.0260	.00002	.00001	.028	.00012
%RSD	.37932	.05710	37.085	.12286	1.7440
#1	6.8645	.02998	-.00003	22.565	.00718
#2	6.8277	.02995	-.00005	22.526	.00700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.00421**	**3.2727**	**.00108**	**-.00035**
Stddev	.00	.00011	.0041	.00120	.00188
%RSD	.0034	2.7300	.12634	111.34	543.51
#1	25.05	.00413	3.2698	.00193	-.00168
#2	25.05	.00429	3.2757	.00023	.00098
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.4325**	**-.00000**	**.16354**	**1.001**	**-.00004**
Stddev	.0117	.00046	.00012	.002	.00021
%RSD	.47878	142010.	.07419	.2305	513.59
#1	2.4407	-.00033	.16363	.9990	.00011
#2	2.4243	.00033	.16346	1.002	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198868-E-2-A Acquired: 6/15/2022 0:05:53 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00251**	**.00238**	**.08617**	**1.000**
Stddev	.00081	.00013	.00001	.001
%RSD	32.323	5.4653	.01102	.0931
#1	.00194	.00248	.08616	1.001
#2	.00309	.00229	.08617	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3620.5**	**3410.4**	**70403.**	**5154.6**
Stddev	5.2	7.8	88.	7.0
%RSD	.14443	.22769	.12466	.13646
#1	3616.8	3404.9	70341.	5159.6
#2	3624.2	3415.9	70465.	5149.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.460%	97.535%	97.214%	98.491%
Range				

Sample Name: 480-198870-A-4-A Acquired: 6/15/2022 0:09:43 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**4.2903**	**.00315**	**.02767**	**.04271**
Stddev	.00078	.0306	.00104	.00036	.00009
%RSD	1388.6	.71319	32.863	1.2888	.22011
#1	-.00049	4.3119	.00389	.02793	.04264
#2	.00061	4.2686	.00242	.02742	.04277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**44.712**	**.00017**	**-.0800**	**.00137**
Stddev	.00001	.038	.00001	.0335	.00009
%RSD	4.0428	.08574	8.6353	41.91	6.3576
#1	.00016	44.739	.00018	-.1037	.00143
#2	.00017	44.685	.00016	-.0563	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00500**	**.00656**	**3.7841**	**3.8924**	**.00755**
Stddev	.00024	.00078	.0121	.0346	.00278
%RSD	4.7139	11.830	.32098	.88932	36.792
#1	.00517	.00710	3.7927	3.9169	.00559
#2	.00484	.00601	3.7755	3.8679	.00952
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198870-A-4-A Acquired: 6/15/2022 0:09:43 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.5842**	**.11560**	**-.00032**	**42.974**	**.00460**
Stddev	.0140	.00009	.00037	.062	.00019
%RSD	.25021	.07931	116.43	.14315	4.1248
#1	5.5743	.11553	-.00058	43.017	.00447
#2	5.5941	.11566	-.00006	42.930	.00474
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.01249**	**8.4334**	**-.00116**	**.00179**
Stddev	.00	.00015	.0175	.00111	.00021
%RSD	.0067	1.1887	.20688	95.269	11.983
#1	25.04	.01239	8.4458	-.00195	.00163
#2	25.04	.01260	8.4211	-.00038	.00194
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.2170**	**.00015**	**.14248**	**1.004**	**.07479**
Stddev	.0087	.00065	.00049	.001	.00779
%RSD	.10585	425.63	.34479	.0966	10.413
#1	8.2232	-.00031	.14282	1.003	.06928
#2	8.2109	.00061	.14213	1.004	.08030
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198870-A-4-A Acquired: 6/15/2022 0:09:43 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00173**	**.00726**	**.02823**	**1.001**
Stddev	.00048	.00026	.00068	.001
%RSD	27.989	3.5947	2.4060	.0665
#1	.00207	.00707	.02871	1.001
#2	.00138	.00744	.02775	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3598.3**	**3439.8**	**70379.**	**5209.2**
Stddev	6.2	7.8	91.	2.1
%RSD	.17112	.22624	.12890	.04056
#1	3593.9	3434.3	70314.	5207.7
#2	3602.6	3445.3	70443.	5210.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.887%	98.374%	97.181%	99.534%
Range				

Sample Name: 480-198871-A-3-A Acquired: 6/15/2022 0:13:31 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.02145**	**.00054**	**.00115**	**.00005**
Stddev	.00008	.02643	.00121	.00015	.00000
%RSD	99.922	123.21	224.98	12.683	2.7068
#1	.00014	.00276	.00140	.00104	.00005
#2	.00002	.04014	-.00032	.00125	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.02094**	**.00001**	**-.0375**	**.00020**
Stddev	.00004	.00032	.00003	.0389	.00014
%RSD	35.297	1.5443	289.38	103.6	67.585
#1	.00015	.02117	-.00001	-.0100	.00011
#2	.00009	.02071	.00003	-.0650	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.00002**	**.00401**	**-.02487**	**-.00021**
Stddev	.00001	.00060	.00049	.03547	.00027
%RSD	2.3301	3092.6	12.149	142.60	129.32
#1	-.00037	.00045	.00436	.00021	-.00002
#2	-.00035	-.00041	.00367	-.04996	-.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198871-A-3-A Acquired: 6/15/2022 0:13:31 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00205**	**-.00006**	**-.00127**	**.14480**	**.00003**
Stddev	.00057	.00005	.00002	.01256	.00003
%RSD	27.812	82.676	1.6554	8.6717	101.77
#1	-.00245	-.00009	-.00126	.15368	.00001
#2	-.00165	-.00002	-.00129	.13592	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00103**	**-.00139**	**.00150**	**.00089**
Stddev	.00	.00021	.00158	.00214	.00019
%RSD	.0022	20.404	113.55	142.65	20.809
#1	25.00	.00118	-.00027	-.00001	.00076
#2	25.00	.00088	-.00251	.00301	.00102
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02576**	**.00043**	**.00022**	**.9987**	**-.00034**
Stddev	.00625	.00035	.00003	.0001	.00027
%RSD	24.245	81.266	11.604	.0120	80.196
#1	-.02135	.00068	.00020	.9986	-.00053
#2	-.03018	.00018	.00024	.9988	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198871-A-3-A Acquired: 6/15/2022 0:13:31 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00108**	**.00004**	**-.00110**	**.9997**
Stddev	.00101	.00032	.00024	.0005
%RSD	93.539	791.75	22.245	.0471
#1	.00037	-.00018	-.00093	1.000
#2	.00179	.00026	-.00127	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3908.1**	**3518.0**	**72982.**	**5214.6**
Stddev	3.8	5.2	2.	12.1
%RSD	.09695	.14696	.00249	.23274
#1	3910.8	3521.7	72980.	5223.2
#2	3905.4	3514.4	72983.	5206.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.88%	100.61%	100.78%	99.637%
Range				

Sample Name: 480-198872-A-4-A Acquired: 6/15/2022 0:17:25 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**1.3685**	**.00251**	**.02156**	**.04238**
Stddev	.00033	.0258	.00054	.00064	.00012
%RSD	127.05	1.8883	21.591	2.9619	.28224
#1	-.00003	1.3868	.00289	.02111	.04247
#2	-.00049	1.3503	.00213	.02201	.04230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**31.055**	**.00014**	**-.0931**	**.00036**
Stddev	.00005	.085	.00005	.0989	.00009
%RSD	35.345	.27212	34.496	106.3	26.395
#1	.00016	31.115	.00018	-.0231	.00042
#2	.00010	30.995	.00011	-.1631	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00095**	**.00304**	**1.3338**	**2.0289**	**.00327**
Stddev	.00020	.00021	.0070	.0178	.00203
%RSD	21.140	6.7445	.52545	.87636	61.964
#1	.00109	.00318	1.3388	2.0163	.00184
#2	.00081	.00289	1.3289	2.0414	.00470
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198872-A-4-A Acquired: 6/15/2022 0:17:25 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.3629**	**.12591**	**-.00127**	**33.838**	**.00195**
Stddev	.0101	.00019	.00010	.092	.00010
%RSD	.23065	.15480	7.5684	.27277	5.1920
#1	4.3700	.12605	-.00120	33.903	.00203
#2	4.3558	.12578	-.00134	33.773	.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00485**	**7.7267**	**-.00166**	**-.00254**
Stddev	.00	.00031	.0045	.00143	.00073
%RSD	.0045	6.4178	.05831	86.060	28.928
#1	25.03	.00507	7.7299	-.00268	-.00202
#2	25.03	.00463	7.7235	-.00065	-.00306
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.1872**	**-.00036**	**.09601**	**1.001**	**.02351**
Stddev	.0185	.00132	.00002	.000	.00059
%RSD	.44111	368.55	.02380	.0308	2.5194
#1	4.1741	-.00130	.09602	1.001	.02309
#2	4.2003	.00058	.09599	1.001	.02392
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198872-A-4-A Acquired: 6/15/2022 0:17:25 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00107**	**.00272**	**.01951**	**1.001**
Stddev	.00036	.00005	.00058	.000
%RSD	33.944	1.6735	2.9760	.0343
#1	.00133	.00275	.01910	1.001
#2	.00082	.00268	.01992	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3640.2**	**3430.0**	**70559.**	**5111.2**
Stddev	.2	1.3	123.	11.7
%RSD	.00567	.03671	.17468	.22939
#1	3640.3	3430.9	70471.	5102.9
#2	3640.0	3429.1	70646.	5119.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.968%	98.094%	97.429%	97.662%
Range				

Sample Name: CCV-7032336 Acquired: 6/15/2022 0:21:14 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0099**	**50.013**	**1.0022**	**1.0290**	**.98609**
Stddev	.0052	.199	.0027	.0027	.00074
%RSD	.51146	.39739	.26685	.26491	.07540
#1	1.0135	50.153	1.0004	1.0270	.98661
#2	1.0062	49.872	1.0041	1.0309	.98556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0122**	**49.821**	**1.0103**	**.9809**	**.99545**
Stddev	.0013	.107	.0002	.1180	.00053
%RSD	.13117	.21462	.02065	12.03	.05296
#1	1.0131	49.897	1.0104	1.064	.99508
#2	1.0113	49.745	1.0101	.8975	.99583
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0269**	**1.0216**	**50.882**	**50.575**	**.98042**
Stddev	.0030	.0037	.066	.100	.00339
%RSD	.29020	.35743	.12889	.19758	.34551
#1	1.0290	1.0242	50.835	50.646	.98282
#2	1.0247	1.0190	50.928	50.504	.97802
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 0:21:14 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.024**	**1.0217**	**1.0155**	**50.037**	**1.0047**
Stddev	.065	.0020	.0009	.086	.0004
%RSD	.13015	.19237	.08642	.17212	.03939
#1	50.070	1.0231	1.0161	50.098	1.0044
#2	49.978	1.0203	1.0149	49.976	1.0049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.55**	**1.0046**	**25.182**	**1.0051**	**1.0113**
Stddev	.01	.0017	.029	.0030	.0004
%RSD	.0269	.16989	.11367	.29837	.04164
#1	37.54	1.0034	25.162	1.0030	1.0116
#2	37.56	1.0058	25.203	1.0072	1.0110
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8813**	**.99685**	**1.0028**	**1.504**	**1.0155**
Stddev	.0332	.00283	.0015	.006	.0006
%RSD	.33561	.28356	.14870	.4274	.06363
#1	9.9048	.99485	1.0039	1.509	1.0159
#2	9.8579	.99885	1.0018	1.500	1.0150
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 0:21:14 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0182**	**1.0192**	**1.0171**	**1.507**
Stddev	.0026	.0023	.0001	.000
%RSD	.25194	.22519	.00557	.0249
#1	1.0164	1.0208	1.0171	1.507
#2	1.0200	1.0176	1.0170	1.507
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3399.7**	**3381.5**	**68620.**	**5090.7**
Stddev	5.4	3.5	100.	21.0
%RSD	.16027	.10378	.14535	.41228
#1	3403.6	3384.0	68691.	5075.8
#2	3395.9	3379.0	68550.	5105.5

Sample Name: CCB-7026764 Acquired: 6/15/2022 0:24:55 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00075**	**.00099**	**.00068**	**.00003**
Stddev	.00039	.01680	.00024	.00032	.00003
%RSD	434.37	2249.6	24.255	46.562	80.867
#1	-.00019	-.01113	.00116	.00090	.00001
#2	.00037	.01262	.00082	.00046	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.00192**	**.00014**	**-.0436**	**.00023**
Stddev	.00000	.00197	.00013	.0368	.00000
%RSD	.08703	102.71	92.464	84.39	.80709
#1	.00011	-.00331	.00005	-.0696	.00022
#2	.00011	-.00052	.00022	-.0176	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.00052**	**.00287**	**-.00098**	**.00011**
Stddev	.00001	.00048	.00033	.02748	.00131
%RSD	3.4274	91.904	11.528	2809.7	1216.0
#1	-.00043	.00086	.00263	.01845	-.00082
#2	-.00041	.00018	.00310	-.02041	.00103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 0:24:55 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00204**	**.00001**	**.00109**	**.10078**	**-.00010**
Stddev	.00033	.00004	.00035	.00607	.00009
%RSD	16.209	384.32	31.835	6.0249	88.666
#1	-.00180	.00004	.00085	.10507	-.00016
#2	-.00227	-.00002	.00134	.09648	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00039**	**-.00047**	**-.00005**	**.00428**
Stddev	.00	.00004	.00188	.00201	.00230
%RSD	.0008	9.7078	399.39	3956.3	53.903
#1	25.00	.00037	.00086	.00137	.00591
#2	25.00	.00042	-.00180	-.00147	.00265
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01888**	**-.00010**	**.00005**	**1.003**	**-.00031**
Stddev	.00019	.00043	.00005	.003	.00013
%RSD	1.0004	415.70	86.960	.2606	41.600
#1	-.01901	-.00041	.00009	1.005	-.00040
#2	-.01874	.00020	.00002	1.001	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 0:24:55 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00161**	**-.00016**	**-.00035**	**.9999**
Stddev	.00078	.00002	.00016	.0004
%RSD	48.181	9.7584	45.034	.0423
#1	.00106	-.00015	-.00046	1.000
#2	.00216	-.00017	-.00024	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3909.8**	**3517.5**	**72712.**	**5151.8**
Stddev	.7	.9	189.	14.0
%RSD	.01729	.02667	.25926	.27251
#1	3909.4	3518.2	72845.	5141.9
#2	3910.3	3516.8	72578.	5161.7

Sample Name: CCVL-7028546 Acquired: 6/15/2022 0:28:49 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00580**	**.22667**	**.01671**	**.01985**	**.00222**
Stddev	.00009	.02515	.00003	.00038	.00002
%RSD	1.4675	11.095	.17971	1.9050	.71316
#1	.00574	.20889	.01669	.01958	.00220
#2	.00586	.24446	.01673	.02012	.00223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00218**	**.51357**	**.00205**	**-.0664**	**.00404**
Stddev	.00004	.00092	.00024	.0172	.00002
%RSD	1.6389	.17962	11.476	25.98	.54045
#1	.00221	.51291	.00222	-.0785	.00406
#2	.00216	.51422	.00188	-.0542	.00403
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00401**	**.01115**	**.05184**	**.51001**	**.02775**
Stddev	.00018	.00015	.00247	.03096	.00103
%RSD	4.5412	1.3493	4.7671	6.0707	3.7133
#1	.00413	.01126	.05009	.48812	.02848
#2	.00388	.01105	.05359	.53190	.02702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/15/2022 0:28:49 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20286**	**.00361**	**.00963**	**1.1012**	**.01000**
Stddev	.00091	.00003	.00016	.0024	.00019
%RSD	.44884	.87957	1.6201	.21474	1.8995
#1	.20350	.00363	.00952	1.1028	.00987
#2	.20221	.00358	.00974	1.0995	.01014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01109**	**.19450**	**.01857**	**.02953**
Stddev	.00	.00068	.00257	.00097	.00146
%RSD	.0006	6.1531	1.3192	5.2052	4.9332
#1	25.00	.01061	.19632	.01789	.03056
#2	25.00	.01157	.19269	.01925	.02850
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46638**	**.00937**	**.00532**	F **1.002**	**.00437**
Stddev	.01466	.00017	.00008	.002	.00022
%RSD	3.1426	1.8565	1.5839	.2224	5.0056
#1	.45601	.00924	.00526	1.004	.00421
#2	.47674	.00949	.00538	1.001	.00452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/15/2022 0:28:49 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02107**	**.00511**	**.00924**	F **1.000**
Stddev	.00122	.00036	.00102	.000
%RSD	5.7723	6.9870	11.005	.0086
#1	.02193	.00536	.00995	1.000
#2	.02021	.00486	.00852	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3843.4**	**3471.1**	**71382.**	**5064.2**
Stddev	5.0	6.0	26.	1.5
%RSD	.12984	.17339	.03656	.02926
#1	3839.8	3466.9	71401.	5065.2
#2	3846.9	3475.4	71364.	5063.1

Sample Name: 480-198873-A-4-A Acquired: 6/15/2022 0:32:42 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**3.2508**	**.00345**	**.02633**	**.05432**
Stddev	.00007	.0117	.00094	.00010	.00007
%RSD	83.523	.36101	27.358	.36501	.12887
#1	-.00004	3.2591	.00278	.02626	.05437
#2	-.00014	3.2425	.00411	.02639	.05427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**31.400**	**.00017**	**-.0595**	**.00091**
Stddev	.00000	.026	.00008	.0008	.00010
%RSD	2.9987	.08432	45.843	1.328	10.788
#1	.00014	31.418	.00011	-.0590	.00084
#2	.00015	31.381	.00022	-.0601	.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00330**	**.00687**	**2.9386**	**2.8404**	**.00515**
Stddev	.00039	.00037	.0024	.0083	.00111
%RSD	11.933	5.4515	.08256	.29398	21.475
#1	.00302	.00714	2.9368	2.8345	.00593
#2	.00358	.00661	2.9403	2.8463	.00437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198873-A-4-A Acquired: 6/15/2022 0:32:42 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8057**	**.20621**	**-.00070**	**31.389**	**.00332**
Stddev	.0006	.00029	.00024	.025	.00028
%RSD	.01253	.13939	33.979	.07971	8.2924
#1	4.8053	.20641	-.00086	31.406	.00313
#2	4.8062	.20600	-.00053	31.371	.00352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.00642**	**8.7947**	**.00044**	**-.00082**
Stddev	.00	.00083	.0191	.00069	.00351
%RSD	.0053	12.850	.21754	158.30	429.53
#1	25.05	.00584	8.8082	-.00005	-.00330
#2	25.05	.00701	8.7811	.00093	.00166
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.2495**	**-.00006**	**.10062**	**1.003**	**.08013**
Stddev	.0258	.00046	.00015	.005	.00636
%RSD	.35546	744.50	.14904	.5160	7.9410
#1	7.2677	.00026	.10073	.9998	.08462
#2	7.2313	-.00039	.10052	1.007	.07563
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198873-A-4-A Acquired: 6/15/2022 0:32:42 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	.00222	.00556	.03567	1.001
Stddev	.00015	.00044	.00108	.000
%RSD	6.7519	7.9947	3.0172	.0396
#1	.00233	.00587	.03643	1.001
#2	.00211	.00524	.03491	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3621.8	3427.8	70364.	5201.0
Stddev	6.1	8.1	116.	10.6
%RSD	.16812	.23607	.16422	.20329
#1	3617.5	3422.0	70282.	5193.5
#2	3626.1	3433.5	70446.	5208.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.494%	98.031%	97.161%	99.378%
Range				

Sample Name: 480-198874-A-4-A Acquired: 6/15/2022 0:36:30 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**1.8873**	**.00260**	**.01914**	**.04053**
Stddev	.00013	.0363	.00259	.00015	.00006
%RSD	1598.6	1.9250	99.708	.78106	.13737
#1	.00010	1.8616	.00443	.01925	.04049
#2	-.00009	1.9130	.00077	.01903	.04057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**42.031**	**.00023**	**-.0965**	**.00057**
Stddev	.00007	.257	.00024	.1139	.00018
%RSD	45.090	.61046	100.84	118.1	31.547
#1	.00021	41.850	.00007	-.0159	.00069
#2	.00011	42.213	.00040	-.1770	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00256**	**.00432**	**1.2438**	**5.8792**	**.00335**
Stddev	.00031	.00024	.0086	.0190	.00020
%RSD	12.145	5.5141	.69128	.32332	6.0660
#1	.00234	.00415	1.2377	5.8658	.00321
#2	.00278	.00448	1.2498	5.8927	.00349
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198874-A-4-A Acquired: 6/15/2022 0:36:30 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.4480**	**.02939**	**.00016**	**21.668**	**.00228**
Stddev	.0239	.00012	.00067	.063	.00013
%RSD	.43805	.40550	418.97	.29083	5.7003
#1	5.4312	.02930	-.00031	21.624	.00237
#2	5.4649	.02947	.00063	21.713	.00219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00507**	**10.627**	**-.00088**	**-.00294**
Stddev	.00	.00138	.006	.00102	.00552
%RSD	.0068	27.297	.05668	115.78	187.85
#1	25.03	.00605	10.623	-.00160	.00097
#2	25.03	.00409	10.631	-.00016	-.00685
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.9064**	**-.00019**	**.10835**	**1.005**	**.05411**
Stddev	.0176	.00054	.00050	.001	.00389
%RSD	.35830	275.76	.45937	.0638	7.1813
#1	4.9188	.00019	.10800	1.006	.05686
#2	4.8940	-.00057	.10870	1.005	.05136
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198874-A-4-A Acquired: 6/15/2022 0:36:30 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00130**	**.00327**	**.00795**	**1.001**
Stddev	.00037	.00014	.00007	.001
%RSD	28.703	4.2637	.92464	.0826
#1	.00104	.00317	.00790	1.001
#2	.00157	.00337	.00800	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3601.2**	**3390.3**	**70222.**	**5164.1**
Stddev	5.3	2.6	357.	21.1
%RSD	.14789	.07679	.50799	.40781
#1	3597.4	3388.5	70474.	5179.0
#2	3605.0	3392.1	69970.	5149.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.962%	96.959%	96.964%	98.673%
Range				

Sample Name: 480-198875-A-4-A Acquired: 6/15/2022 0:40:18 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**2.7117**	**.00283**	**.02037**	**.04035**
Stddev	.00021	.0093	.00336	.00068	.00003
%RSD	213.21	.34298	118.68	3.3374	.08061
#1	.00005	2.7183	.00521	.01989	.04037
#2	-.00024	2.7051	.00046	.02085	.04032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**38.518**	**.00005**	**-.1059**	**.00093**
Stddev	.00009	.003	.00008	.0812	.00014
%RSD	55.490	.00662	155.37	76.72	15.409
#1	.00023	38.519	.00011	-.0484	.00083
#2	.00010	38.516	-.00001	-.1633	.00103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00382**	**.00462**	**2.3880**	**6.4556**	**.00361**
Stddev	.00053	.00060	.0000	.0042	.00085
%RSD	13.911	12.960	.00013	.06566	23.419
#1	.00344	.00420	2.3880	6.4586	.00421
#2	.00419	.00505	2.3880	6.4526	.00301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198875-A-4-A Acquired: 6/15/2022 0:40:18 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.4764**	**.05540**	**.00034**	**19.051**	**.00330**
Stddev	.0066	.00033	.00005	.001	.00018
%RSD	.11970	.58993	14.430	.00416	5.3437
#1	5.4717	.05517	.00038	19.050	.00318
#2	5.4810	.05563	.00031	19.051	.00343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00891**	**9.1038**	**.00020**	**-.00558**
Stddev	.00	.00049	.0102	.00335	.00162
%RSD	.0017	5.4750	.11169	1665.2	29.085
#1	25.04	.00926	9.0966	.00257	-.00443
#2	25.04	.00857	9.1110	-.00217	-.00673
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.8951**	**-.00001**	**.09802**	**1.004**	**.05044**
Stddev	.0082	.00080	.00012	.004	.00062
%RSD	.13978	9565.2	.11774	.3952	1.2367
#1	5.9009	.00056	.09810	1.001	.05000
#2	5.8892	-.00058	.09794	1.006	.05088
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198875-A-4-A Acquired: 6/15/2022 0:40:18 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00222**	**.00465**	**.01848**	**1.001**
Stddev	.00038	.00026	.00007	.000
%RSD	17.299	5.5712	.36355	.0347
#1	.00249	.00483	.01853	1.001
#2	.00195	.00446	.01844	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3636.9**	**3427.5**	**70121.**	**5197.8**
Stddev	3.1	4.4	192.	8.0
%RSD	.08600	.12919	.27443	.15479
#1	3639.1	3430.6	70257.	5203.5
#2	3634.7	3424.4	69985.	5192.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.884%	98.023%	96.825%	99.317%
Range				

Sample Name: 480-198884-A-4-A Acquired: 6/15/2022 0:44:07 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**3.0167**	**.00488**	**.01793**	**.02742**
Stddev	.00012	.0417	.00074	.00051	.00003
%RSD	155.90	1.3830	15.167	2.8344	.11498
#1	.00001	2.9872	.00541	.01829	.02744
#2	-.00016	3.0462	.00436	.01757	.02740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**27.368**	**.00011**	**-.0195**	**.00099**
Stddev	.00001	.052	.00001	.0023	.00006
%RSD	3.9509	.18903	10.786	11.77	5.8372
#1	.00021	27.331	.00012	-.0211	.00095
#2	.00019	27.404	.00011	-.0179	.00104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00344**	**.00440**	**2.4242**	**2.9891**	**.00368**
Stddev	.00033	.00005	.0035	.0086	.00124
%RSD	9.5044	1.0923	.14499	.28880	33.619
#1	.00321	.00444	2.4217	2.9952	.00455
#2	.00367	.00437	2.4267	2.9830	.00280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198884-A-4-A Acquired: 6/15/2022 0:44:07 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.3767**	**.07217**	**-.00061**	**27.497**	**.00302**
Stddev	.0003	.00022	.00022	.011	.00019
%RSD	.00939	.30335	35.620	.04037	6.3554
#1	3.3769	.07202	-.00077	27.489	.00315
#2	3.3765	.07233	-.00046	27.505	.00288
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00877**	**5.9144**	**-.00212**	**.00110**
Stddev	.00	.00045	.0180	.00020	.00166
%RSD	.0045	5.1604	.30349	9.5782	150.61
#1	25.03	.00909	5.9017	-.00198	.00228
#2	25.03	.00845	5.9270	-.00227	-.00007
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.7696**	**-.00040**	**.09180**	**1.003**	**.06186**
Stddev	.0176	.00016	.00014	.003	.00039
%RSD	.30450	40.771	.15169	.2872	.62778
#1	5.7572	-.00051	.09170	1.000	.06159
#2	5.7821	-.00028	.09190	1.005	.06213
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198884-A-4-A Acquired: 6/15/2022 0:44:07 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00236**	**.00528**	**.01711**	**1.001**
Stddev	.00011	.00005	.00098	.000
%RSD	4.6909	.87667	5.7547	.0389
#1	.00228	.00525	.01641	1.001
#2	.00243	.00532	.01780	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3663.9**	**3449.5**	**70841.**	**5223.5**
Stddev	.2	5.0	141.	21.8
%RSD	.00445	.14574	.19952	.41676
#1	3663.8	3453.0	70941.	5238.9
#2	3664.1	3445.9	70741.	5208.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.582%	98.652%	97.820%	99.807%
Range				

Sample Name: 480-198944-C-1-B Acquired: 6/15/2022 0:47:55 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.02895**	**.00391**	**.09041**	**.01755**
Stddev	.00060	.01984	.00132	.00046	.00001
%RSD	229.97	68.517	33.717	.51176	.02897
#1	-.00068	.01493	.00484	.09008	.01756
#2	.00016	.04298	.00298	.09073	.01755
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**30.788**	**.00019**	**-.0705**	**.00008**
Stddev	.00004	.081	.00002	.0952	.00002
%RSD	40.425	.26171	10.273	134.9	26.307
#1	.00011	30.731	.00021	-.1378	.00010
#2	.00006	30.845	.00018	-.0032	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.01099**	**.10777**	**6.1104**	**.00425**
Stddev	.00008	.00078	.00087	.0122	.00074
%RSD	223.84	7.0937	.80512	.20036	17.349
#1	.00002	.01154	.10716	6.1017	.00477
#2	-.00009	.01043	.10838	6.1190	.00373
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198944-C-1-B Acquired: 6/15/2022 0:47:55 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.5941**	**.10568**	**-.00075**	**77.612**	**.00114**
Stddev	.0089	.00010	.00014	.408	.00003
%RSD	.13468	.09235	18.248	.52586	3.0529
#1	6.6003	.10575	-.00065	77.323	.00112
#2	6.5878	.10561	-.00084	77.900	.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.77**	**.00211**	**6.6991**	**.00027**	**-.00009**
Stddev	.00	.00070	.0011	.00200	.00478
%RSD	.0050	33.076	.01675	753.84	5148.6
#1	25.77	.00161	6.6999	-.00115	-.00347
#2	25.77	.00260	6.6983	.00168	.00328
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.2014**	**.01457**	**.10606**	**1.006**	**.00046**
Stddev	.0112	.00027	.00004	.003	.00020
%RSD	.51010	1.8537	.04118	.3170	44.912
#1	2.1935	.01476	.10603	1.003	.00031
#2	2.2094	.01438	.10609	1.008	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198944-C-1-B Acquired: 6/15/2022 0:47:55 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00205**	**-.00005**	**.03900**	**.9999**
Stddev	.00079	.00020	.00018	.0002
%RSD	38.526	381.60	.46081	.0207
#1	.00149	-.00019	.03887	1.000
#2	.00261	.00009	.03913	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3558.9**	**3401.4**	**69668.**	**5180.3**
Stddev	.9	1.3	106.	44.5
%RSD	.02593	.03756	.15281	.85863
#1	3559.5	3400.5	69593.	5211.8
#2	3558.2	3402.3	69744.	5148.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.870%	97.277%	96.200%	98.982%
Range				

Sample Name: 480-198943-C-5-B Acquired: 6/15/2022 0:51:44 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.10675**	**.00274**	**.88837**	**.01378**
Stddev	.00065	.01226	.00127	.00099	.00010
%RSD	654.69	11.483	46.152	.11163	.69180
#1	-.00036	.11542	.00364	.88767	.01384
#2	.00055	.09808	.00185	.88907	.01371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**7.9594**	**.00013**	**-.0998**	**.00043**
Stddev	.00002	.0108	.00003	.0492	.00013
%RSD	27.249	.13617	25.381	49.33	29.464
#1	.00006	7.9670	.00015	-.1346	.00034
#2	.00008	7.9517	.00010	-.0650	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07180**	**.24535**	**.29477**	**12.559**	**.00493**
Stddev	.00042	.00098	.00033	.024	.00067
%RSD	.59063	.40125	.11363	.19176	13.681
#1	.07210	.24605	.29501	12.576	.00446
#2	.07150	.24465	.29454	12.542	.00541
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198943-C-5-B Acquired: 6/15/2022 0:51:44 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.7016**	**.01483**	**.00386**	**401.47**	**.03675**
Stddev	.0026	.00007	.00007	.45	.00003
%RSD	.15489	.48325	1.7031	.11290	.06845
#1	1.7034	.01478	.00391	401.79	.03673
#2	1.6997	.01488	.00381	401.15	.03677
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.02**	**.00172**	F **185.49**	**.00202**	**-.00177**
Stddev	.01	.00032	.06	.00060	.00050
%RSD	.0185	18.708	.03455	29.778	28.331
#1	27.02	.00149	185.45	.00160	-.00141
#2	27.02	.00195	185.54	.00245	-.00212
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.2423**	**.01353**	**.02901**	**.9993**	**.00089**
Stddev	.0168	.00014	.00008	.0012	.00053
%RSD	.51788	1.0351	.27027	.1214	59.683
#1	3.2541	.01343	.02907	1.000	.00127
#2	3.2304	.01363	.02896	.9985	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198943-C-5-B Acquired: 6/15/2022 0:51:44 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00122**	**.00028**	**.23904**	**.9993**
Stddev	.00107	.00005	.00107	.0000
%RSD	87.461	16.793	.44914	.0017
#1	.00198	.00025	.23980	.9993
#2	.00047	.00031	.23828	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3266.3**	**3276.2**	**66527.**	**5179.7**
Stddev	7.2	3.4	67.	4.5
%RSD	.21949	.10508	.10035	.08724
#1	3261.2	3273.7	66575.	5176.5
#2	3271.4	3278.6	66480.	5182.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.317%	93.695%	91.863%	98.969%
Range				

Sample Name: 480-198917-A-1-A Acquired: 6/15/2022 0:55:38 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**.14158**	**.76535**	**.06526**	**.00797**
Stddev	.00031	.03496	.00065	.00027	.00002
%RSD	64.992	24.692	.08553	.41640	.20506
#1	.00026	.11686	.76582	.06507	.00796
#2	.00069	.16630	.76489	.06546	.00798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**35.965**	**-.00007**	**-.0543**	**.00030**
Stddev	.00010	.069	.00016	.0145	.00005
%RSD	123.80	.19295	213.42	26.66	17.868
#1	.00001	36.015	-.00018	-.0440	.00033
#2	.00015	35.916	.00004	-.0645	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00225**	**.10822**	**2.0248**	**.00306**
Stddev	.00016	.00076	.00112	.0497	.00016
%RSD	151.62	33.911	1.0357	2.4528	5.1962
#1	.00022	.00279	.10901	2.0599	.00317
#2	-.00001	.00171	.10742	1.9897	.00295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198917-A-1-A Acquired: 6/15/2022 0:55:38 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.5262**	**.03247**	**-.00124**	**52.473**	**.00094**
Stddev	.0254	.00007	.00010	.188	.00004
%RSD	.38886	.22163	7.7198	.35821	4.2967
#1	6.5442	.03252	-.00131	52.606	.00097
#2	6.5083	.03242	-.00117	52.340	.00091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00191**	**22.261**	**.00533**	**-.00121**
Stddev	.00	.00023	.015	.00054	.00137
%RSD	.0010	11.840	.06523	10.149	112.93
#1	25.02	.00175	22.251	.00495	-.00024
#2	25.02	.00208	22.272	.00571	-.00217
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8562**	**.00043**	**.09852**	**1.002**	**.00277**
Stddev	.0137	.00029	.00047	.003	.00007
%RSD	.73639	67.770	.47320	.3096	2.5511
#1	1.8466	.00063	.09885	1.004	.00282
#2	1.8659	.00022	.09819	.9994	.00272
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198917-A-1-A Acquired: 6/15/2022 0:55:38 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00124**	**.00070**	**.02026**	**.9998**
Stddev	.00046	.00019	.00073	.0001
%RSD	37.402	27.450	3.5993	.0053
#1	.00157	.00056	.01975	.9998
#2	.00091	.00084	.02078	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3596.4**	**3401.8**	**69911.**	**5141.0**
Stddev	4.3	6.1	159.	1.8
%RSD	.11857	.17862	.22717	.03528
#1	3599.5	3406.1	69799.	5139.7
#2	3593.4	3397.5	70023.	5142.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.840%	97.287%	96.535%	98.231%
Range				

Sample Name: MB 480-629874/1-A Acquired: 6/15/2022 0:59:28 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**-.00959**	**.00265**	**.00050**	**.00001**
Stddev	.00014	.00776	.00046	.00002	.00001
%RSD	59.439	80.902	17.468	3.6054	132.09
#1	-.00034	-.01508	.00232	.00052	.00001
#2	-.00014	-.00410	.00298	.00049	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00312**	**-.00002**	**-.0456**	**.00022**
Stddev	.00007	.00002	.00001	.0559	.00009
%RSD	124.54	.68303	68.968	122.6	42.620
#1	.00001	-.00310	-.00001	-.0851	.00015
#2	.00010	-.00313	-.00002	-.0061	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.00015**	**.00466**	**-.05660**	**-.00050**
Stddev	.00008	.00021	.00130	.01938	.00022
%RSD	25.534	137.24	27.865	34.248	44.495
#1	-.00025	.00030	.00558	-.07031	-.00065
#2	-.00036	.00000	.00374	-.04289	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629874/1-A Acquired: 6/15/2022 0:59:28 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00171**	**.00036**	**-.00151**	**.12309**	**.00011**
Stddev	.00117	.00003	.00007	.00026	.00026
%RSD	68.658	7.8440	4.6229	.21160	244.34
#1	-.00254	.00038	-.00146	.12291	-.00008
#2	-.00088	.00034	-.00156	.12328	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00048**	**.00654**	**.00035**	**-.00239**
Stddev	.00	.00100	.00145	.00217	.00142
%RSD	.0004	209.34	22.202	624.74	59.436
#1	25.00	.00118	.00551	.00188	-.00339
#2	25.00	-.00023	.00757	-.00119	-.00138
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02140**	**.00002**	**.00005**	**1.005**	**-.00081**
Stddev	.01049	.00019	.00008	.000	.00009
%RSD	49.045	810.75	183.31	.0245	11.763
#1	-.01398	-.00011	.00011	1.005	-.00074
#2	-.02882	.00016	-.00001	1.004	-.00087
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629874/1-A Acquired: 6/15/2022 0:59:28 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00157**	**-.00003**	**-.00086**	**1.000**
Stddev	.00147	.00008	.00046	.000
%RSD	93.825	254.28	53.439	.0020
#1	.00053	-.00008	-.00119	1.000
#2	.00260	.00002	-.00054	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3934.2**	**3537.8**	**72829.**	**5249.5**
Stddev	2.1	4.1	188.	14.7
%RSD	.05215	.11626	.25769	.27913
#1	3935.6	3534.9	72697.	5259.9
#2	3932.7	3540.7	72962.	5239.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.56%	101.18%	100.57%	100.30%
Range				

Sample Name: LCS 480-629874/2-A Acquired: 6/15/2022 1:03:22 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04788**	**9.8053**	**.19888**	**.19523**	**.20639**
Stddev	.00026	.1146	.00050	.00017	.00028
%RSD	.53779	1.1686	.25356	.08703	.13605
#1	.04806	9.7243	.19852	.19511	.20620
#2	.04769	9.8863	.19923	.19535	.20659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20538**	**9.7645**	**.19523**	**-.0756**	**.19489**
Stddev	.00021	.0491	.00065	.0195	.00016
%RSD	.10451	.50246	.33268	25.75	.08426
#1	.20523	9.7298	.19477	-.0618	.19477
#2	.20553	9.7992	.19569	-.0893	.19500
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20291**	**.20770**	**10.136**	**9.7804**	**.18944**
Stddev	.00080	.00049	.064	.0402	.00183
%RSD	.39453	.23655	.63466	.41070	.96701
#1	.20347	.20735	10.091	9.7520	.18815
#2	.20234	.20805	10.182	9.8088	.19074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629874/2-A Acquired: 6/15/2022 1:03:22 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.072**	**.20404**	**.20195**	**9.7004**	**.19282**
Stddev	.001	.00017	.00087	.0500	.00002
%RSD	.01465	.08321	.42995	.51581	.01006
#1	10.073	.20392	.20256	9.6651	.19280
#2	10.071	.20416	.20134	9.7358	.19283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.19633**	**9.6211**	**.20414**	**.19592**
Stddev	.00	.00034	.0017	.00280	.00398
%RSD	.0033	.17545	.01800	1.3737	2.0311
#1	25.00	.19609	9.6223	.20216	.19311
#2	25.00	.19657	9.6199	.20613	.19874
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2875**	F **.23187**	**.19867**	**1.008**	**.20274**
Stddev	.0691	.00083	.00104	.001	.00019
%RSD	.74367	.35811	.52428	.0718	.09535
#1	9.2387	.23128	.19793	1.009	.20287
#2	9.3363	.23246	.19941	1.008	.20260
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: LCS 480-629874/2-A Acquired: 6/15/2022 1:03:22 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20321**	**.19899**	**.19486**	**1.001**
Stddev	.00062	.00048	.00083	.000
%RSD	.30287	.24232	.42395	.0165
#1	.20364	.19865	.19427	1.001
#2	.20277	.19933	.19544	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3690.5**	**3465.3**	**71160.**	**5201.7**
Stddev	3.6	2.5	19.	52.8
%RSD	.09772	.07322	.02703	1.0146
#1	3693.1	3467.1	71146.	5239.0
#2	3688.0	3463.5	71173.	5164.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.269%	99.105%	98.259%	99.391%
Range				

Sample Name: CCV-7032336 Acquired: 6/15/2022 1:07:03 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99953**	**49.425**	**1.0014**	**1.0211**	**.97285**
Stddev	.00146	.050	.0022	.0009	.00091
%RSD	.14563	.10065	.22500	.08765	.09349
#1	.99850	49.390	1.0030	1.0205	.97221
#2	1.0006	49.460	.99983	1.0218	.97349
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0042**	**49.236**	**1.0031**	**.9682**	**.98895**
Stddev	.0010	.097	.0002	.0957	.00000
%RSD	.09667	.19617	.01752	9.888	.00041
#1	1.0035	49.168	1.0032	.9005	.98894
#2	1.0048	49.304	1.0030	1.036	.98895
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0326**	**1.0191**	**50.911**	**50.310**	**.96911**
Stddev	.0021	.0024	.092	.073	.00252
%RSD	.20075	.23869	.18070	.14569	.26043
#1	1.0311	1.0173	50.846	50.258	.96733
#2	1.0341	1.0208	50.976	50.361	.97090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 1:07:03 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.610**	**1.0213**	**1.0141**	**49.639**	**1.0014**
Stddev	.042	.0006	.0025	.062	.0006
%RSD	.08383	.05966	.24946	.12551	.06190
#1	49.581	1.0208	1.0159	49.595	1.0018
#2	49.640	1.0217	1.0123	49.683	1.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.44**	**.99946**	**25.087**	**.99612**	**1.0124**
Stddev	.01	.00252	.003	.00206	.0005
%RSD	.0287	.25186	.01280	.20712	.04838
#1	37.45	1.0012	25.085	.99466	1.0127
#2	37.43	.99768	25.089	.99758	1.0120
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7418**	**.98747**	**.99422**	**1.509**	**1.0170**
Stddev	.0389	.00034	.00043	.009	.0018
%RSD	.39962	.03453	.04316	.6301	.18141
#1	9.7143	.98723	.99392	1.502	1.0157
#2	9.7693	.98771	.99452	1.515	1.0183
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 1:07:03 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0154**	**1.0191**	**1.0173**	**1.503**
Stddev	.0011	.0026	.0021	.001
%RSD	.10814	.25389	.20559	.0830
#1	1.0162	1.0172	1.0158	1.504
#2	1.0146	1.0209	1.0187	1.502
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3404.1**	**3380.7**	**68592.**	**5067.8**
Stddev	5.3	5.6	258.	20.4
%RSD	.15519	.16524	.37575	.40292
#1	3400.3	3376.8	68774.	5082.3
#2	3407.8	3384.7	68410.	5053.4

Sample Name: CCB-7026764 Acquired: 6/15/2022 1:10:43 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**-.00158**	**.00419**	**.00085**	**.00004**
Stddev	.00001	.00789	.00287	.00039	.00000
%RSD	2.2285	499.00	68.506	46.622	1.1283
#1	.00030	.00400	.00216	.00113	.00004
#2	.00029	-.00716	.00622	.00057	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00310**	**.00010**	**-.0299**	**.00024**
Stddev	.00004	.00356	.00004	.0877	.00012
%RSD	35.688	114.87	41.733	293.2	48.541
#1	.00009	-.00562	.00014	.0321	.00016
#2	.00016	-.00058	.00007	-.0920	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00008**	**.00333**	**-.05178**	**.00085**
Stddev	.00037	.00043	.00064	.01969	.00032
%RSD	179.95	515.58	19.339	38.018	37.613
#1	-.00047	.00038	.00288	-.03786	.00062
#2	.00006	-.00022	.00379	-.06570	.00108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 1:10:43 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00117**	**.00003**	**.00137**	**.07485**	**.00009**
Stddev	.00093	.00002	.00033	.00396	.00001
%RSD	79.734	55.189	24.346	5.2841	8.4283
#1	-.00051	.00005	.00114	.07206	.00010
#2	-.00183	.00002	.00161	.07765	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00123**	**.00563**	**.00089**	**.00290**
Stddev	.00	.00183	.00082	.00139	.00524
%RSD	.0014	148.01	14.543	155.55	180.38
#1	25.00	-.00006	.00505	.00188	-.00080
#2	25.00	.00253	.00621	-.00009	.00661
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01903**	**.00051**	**.00017**	**1.000**	**-.00029**
Stddev	.00072	.00021	.00001	.001	.00008
%RSD	3.7788	41.247	6.0151	.0748	27.456
#1	-.01954	.00066	.00016	1.001	-.00035
#2	-.01852	.00036	.00018	.9997	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 1:10:43 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00190**	**-.00021**	**-.00041**	**1.000**
Stddev	.00101	.00004	.00015	.001
%RSD	53.107	18.037	35.320	.0925
#1	.00118	-.00024	-.00031	1.001
#2	.00261	-.00018	-.00052	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3924.7**	**3527.9**	**72674.**	**5159.6**
Stddev	2.8	5.1	115.	32.3
%RSD	.07148	.14540	.15889	.62693
#1	3922.7	3524.2	72593.	5182.4
#2	3926.7	3531.5	72756.	5136.7

Sample Name: CCVL-7028546 Acquired: 6/15/2022 1:14:37 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00576**	**.21779**	**.01624**	**.01959**	**.00216**
Stddev	.00015	.01196	.00063	.00028	.00002
%RSD	2.5160	5.4936	3.8530	1.4412	.76008
#1	.00587	.22625	.01580	.01979	.00217
#2	.00566	.20933	.01668	.01939	.00215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00214**	**.50436**	**.00210**	**-.1005**	**.00389**
Stddev	.00011	.00183	.00019	.0278	.00028
%RSD	5.3017	.36269	9.1207	27.65	7.1849
#1	.00223	.50306	.00224	-.0808	.00409
#2	.00206	.50565	.00196	-.1201	.00369
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00401**	**.01113**	**.05010**	**.44418**	**.02805**
Stddev	.00005	.00065	.00054	.03929	.00171
%RSD	1.2524	5.8653	1.0875	8.8445	6.1021
#1	.00398	.01159	.04971	.47196	.02684
#2	.00405	.01067	.05048	.41640	.02926
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/15/2022 1:14:37 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19654**	**.00352**	**.00928**	**1.0498**	**.00971**
Stddev	.00042	.00004	.00009	.0025	.00006
%RSD	.21320	1.0692	.94921	.23898	.65025
#1	.19625	.00350	.00934	1.0480	.00967
#2	.19684	.00355	.00921	1.0515	.00976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01076**	**.19735**	**.01840**	**.02684**
Stddev	.00	.00106	.00134	.00192	.00263
%RSD	.0020	9.8870	.68001	10.422	9.7896
#1	25.00	.01001	.19829	.01975	.02498
#2	25.00	.01151	.19640	.01704	.02870
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44836**	**.00957**	**.00520**	F **1.001**	**.00455**
Stddev	.01109	.00056	.00000	.002	.00004
%RSD	2.4739	5.8036	.00574	.1616	.83335
#1	.44052	.00918	.00520	.9995	.00452
#2	.45621	.00996	.00520	1.002	.00458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/15/2022 1:14:37 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02191**	**.00504**	**.00906**	F **1.000**
Stddev	.00043	.00023	.00049	.000
%RSD	1.9435	4.5003	5.4284	.0238
#1	.02221	.00488	.00871	1.000
#2	.02161	.00520	.00940	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3908.8**	**3526.6**	**72480.**	**5131.1**
Stddev	2.3	3.3	73.	34.1
%RSD	.05864	.09254	.10058	.66436
#1	3907.2	3524.3	72428.	5155.2
#2	3910.5	3528.9	72531.	5107.0

Sample Name: 480-198941-A-1-A Acquired: 6/15/2022 1:18:30 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.03519**	**.00227**	**.00848**	**.00083**
Stddev	.00060	.00099	.00042	.00013	.00001
%RSD	112.00	2.8002	18.310	1.5343	.76591
#1	.00011	.03588	.00257	.00838	.00083
#2	.00096	.03449	.00198	.00857	.00082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.18689**	**.00017**	**-.0192**	**.00035**
Stddev	.00006	.00333	.00001	.1124	.00010
%RSD	38.540	1.7835	4.1725	584.1	27.315
#1	.00021	.18454	.00016	-.0987	.00042
#2	.00012	.18925	.00017	.0603	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00084**	**.00077**	**.03140**	**.13795**	**.00083**
Stddev	.00021	.00029	.00245	.01230	.00113
%RSD	24.893	37.488	7.8040	8.9174	136.33
#1	.00099	.00098	.03313	.14665	.00003
#2	.00069	.00057	.02967	.12925	.00162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-1-A Acquired: 6/15/2022 1:18:30 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06741**	**.00068**	**-.00120**	**8.1785**	**.00136**
Stddev	.00027	.00005	.00006	.0285	.00023
%RSD	.40364	7.5819	5.0732	.34860	17.262
#1	.06722	.00065	-.00116	8.1987	.00119
#2	.06761	.00072	-.00125	8.1583	.00152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00087**	**81.157**	**.00221**	**.00954**
Stddev	.00	.00089	2.574	.00002	.00068
%RSD	.0015	102.94	3.1721	.97377	7.1427
#1	25.00	.00024	82.977	.00223	.01002
#2	25.00	.00150	79.337	.00220	.00906
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05441**	**.00212**	**.00127**	**1.003**	**.00147**
Stddev	.00652	.00044	.00002	.001	.00010
%RSD	11.977	20.821	1.4903	.0887	7.1044
#1	.05902	.00244	.00128	1.004	.00154
#2	.04980	.00181	.00126	1.003	.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-1-A Acquired: 6/15/2022 1:18:30 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00532**	**-.00007**	**.00204**	**.9996**
Stddev	.00127	.00012	.00004	.0008
%RSD	23.837	168.70	2.0717	.0754
#1	-.00621	.00001	.00207	.9991
#2	-.00442	-.00015	.00201	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3852.4**	**3384.2**	**70441.**	**5035.1**
Stddev	5.0	9.9	128.	27.6
%RSD	.13048	.29277	.18197	.54869
#1	3848.9	3377.2	70532.	5015.5
#2	3856.0	3391.2	70350.	5054.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.448%	96.784%	97.267%	96.207%
Range				

Sample Name: 480-198941-A-1-Asd@5 Acquired: 6/15/2022 1:22:23 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00084**	**-.00197**	**.00244**	**.00167**	**.00028**
Stddev	.00022	.04106	.00061	.00043	.00001
%RSD	25.612	2083.1	24.944	25.620	4.2363
#1	-.00069	.02706	.00201	.00198	.00027
#2	-.00100	-.03100	.00287	.00137	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.04132**	**-.00000**	**-.1142**	**.00022**
Stddev	.00001	.00075	.00001	.1759	.00006
%RSD	9.8043	1.8137	7968.7	154.0	26.273
#1	.00012	.04185	-.00001	.0102	.00018
#2	.00010	.04079	.00001	-.2386	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00037**	**.00604**	**-.00523**	**.00106**
Stddev	.00038	.00034	.00013	.00851	.00142
%RSD	214.72	92.062	2.1652	162.58	133.66
#1	-.00009	.00013	.00613	.00078	.00006
#2	.00045	.00061	.00594	-.01125	.00206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-1-Asd@5 Acquired: 6/15/2022 1:22:23 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01358**	**-.00001**	**-.00142**	**1.6842**	**.00029**
Stddev	.00059	.00003	.00016	.0121	.00010
%RSD	4.3800	400.82	11.162	.72083	33.814
#1	.01400	.00001	-.00153	1.6756	.00036
#2	.01316	-.00003	-.00131	1.6928	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00040**	**16.074**	**.00159**	**.00465**
Stddev	.00	.00084	.739	.00089	.00037
%RSD	.0007	213.34	4.5993	55.817	7.9398
#1	25.00	.00099	16.596	.00097	.00439
#2	25.00	-.00020	15.551	.00222	.00491
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01254**	**.00034**	**.00033**	**1.005**	**-.00052**
Stddev	.00750	.00012	.00001	.007	.00074
%RSD	59.800	34.723	3.0406	.6761	140.63
#1	-.00724	.00025	.00033	1.000	-.00000
#2	-.01784	.00042	.00034	1.010	-.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-1-Asd@5 Acquired: 6/15/2022 1:22:23 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00023**	**-.00022**	**-.00131**	**.9992**
Stddev	.00011	.00007	.00024	.0005
%RSD	46.677	29.250	18.278	.0488
#1	.00016	-.00027	-.00114	.9996
#2	.00031	-.00018	-.00148	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3957.4**	**3522.6**	**73014.**	**5249.1**
Stddev	7.5	5.5	239.	28.7
%RSD	.18995	.15691	.32790	.54759
#1	3952.1	3518.7	73184.	5269.5
#2	3962.7	3526.5	72845.	5228.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.16%	100.74%	100.82%	100.30%
Range				

Sample Name: 480-198941-A-1-APDS Acquired: 6/15/2022 1:26:16 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05029**	**10.573**	**.22095**	**.21099**	**.21997**
Stddev	.00046	.040	.00248	.00015	.00043
%RSD	.90543	.37523	1.1220	.07097	.19519
#1	.05061	10.545	.21920	.21110	.21967
#2	.04997	10.601	.22271	.21089	.22028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22331**	**10.781**	**.20828**	**-.0959**	**.20392**
Stddev	.00060	.024	.00003	.0107	.00020
%RSD	.27022	.22378	.01290	11.16	.09967
#1	.22288	10.764	.20830	-.1035	.20406
#2	.22373	10.798	.20826	-.0883	.20377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22192**	**.21964**	**10.882**	**10.648**	**.20592**
Stddev	.00010	.00065	.019	.036	.00051
%RSD	.04722	.29627	.17891	.33915	.24929
#1	.22184	.21918	10.868	10.622	.20628
#2	.22199	.22010	10.895	10.673	.20556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-1-APDS Acquired: 6/15/2022 1:26:16 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.417**	**.22374**	**.22249**	**18.052**	**.20311**
Stddev	.045	.00068	.00125	.006	.00003
%RSD	.43051	.30577	.56155	.03155	.01455
#1	10.385	.22326	.22337	18.048	.20309
#2	10.448	.22422	.22160	18.056	.20314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.20059**	**88.092**	**.21597**	**.24632**
Stddev	.00	.00124	.144	.00009	.00301
%RSD	.0010	.61801	.16333	.04167	1.2236
#1	25.01	.20147	88.193	.21591	.24845
#2	25.01	.19972	87.990	.21604	.24419
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.144**	**.19881**	**.21727**	**1.008**	**.21877**
Stddev	.017	.00085	.00007	.000	.00082
%RSD	.16609	.42537	.03299	.0253	.37514
#1	10.156	.19941	.21722	1.008	.21819
#2	10.132	.19821	.21733	1.007	.21935
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-1-APDS Acquired: 6/15/2022 1:26:16 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20306**	**.21477**	**.21717**	**1.000**
Stddev	.00037	.00053	.00167	.000
%RSD	.18202	.24900	.77046	.0106
#1	.20279	.21440	.21599	1.000
#2	.20332	.21515	.21836	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3721.3**	**3386.0**	**70330.**	**5082.2**
Stddev	3.2	5.7	284.	9.5
%RSD	.08606	.16890	.40394	.18632
#1	3719.0	3381.9	70531.	5088.9
#2	3723.5	3390.0	70129.	5075.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.061%	96.835%	97.114%	97.108%
Range				

Sample Name: 480-198941-A-1-B MS Acquired: 6/15/2022 1:29:57 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04571**	**9.9289**	**.20963**	**.19631**	**.20915**
Stddev	.00016	.0023	.00010	.00042	.00006
%RSD	.35409	.02307	.04545	.21333	.02702
#1	.04559	9.9305	.20970	.19602	.20919
#2	.04582	9.9273	.20957	.19661	.20911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20867**	**10.148**	**.19592**	**-.1145**	**.19180**
Stddev	.00135	.021	.00002	.0286	.00050
%RSD	.64458	.21082	.00873	25.02	.26055
#1	.20962	10.163	.19590	-.0942	.19215
#2	.20772	10.132	.19593	-.1347	.19145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20755**	**.20649**	**10.273**	**10.009**	**.18932**
Stddev	.00040	.00112	.038	.028	.00054
%RSD	.19158	.54320	.36780	.28441	.28560
#1	.20783	.20728	10.300	10.029	.18971
#2	.20726	.20570	10.247	9.9889	.18894
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-1-B MS Acquired: 6/15/2022 1:29:57 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7896**	**.20632**	**.21128**	**17.612**	**.19050**
Stddev	.0103	.00021	.00034	.067	.00061
%RSD	.10475	.10082	.16070	.37800	.32111
#1	9.7968	.20647	.21152	17.659	.19093
#2	9.7823	.20618	.21104	17.565	.19006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.18889**	**89.328**	**.20320**	**.23461**
Stddev	.00	.00020	.050	.00308	.00004
%RSD	.0025	.10725	.05543	1.5171	.01874
#1	25.01	.18903	89.363	.20102	.23464
#2	25.01	.18875	89.293	.20538	.23458
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3337**	**.22784**	**.20288**	**1.005**	**.20813**
Stddev	.0068	.00037	.00089	.001	.00109
%RSD	.07317	.16453	.43801	.1241	.52388
#1	9.3385	.22758	.20351	1.006	.20890
#2	9.3288	.22811	.20225	1.004	.20736
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-1-B MS Acquired: 6/15/2022 1:29:57 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.18654**	**.20353**	**.20359**	**1.000**
Stddev	.00017	.00095	.00060	.000
%RSD	.09215	.46728	.29604	.0221
#1	.18666	.20286	.20402	1.000
#2	.18642	.20420	.20317	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3737.0**	**3390.5**	**70424.**	**5114.1**
Stddev	6.1	2.0	197.	14.9
%RSD	.16299	.05797	.27968	.29195
#1	3732.6	3389.2	70285.	5103.5
#2	3741.3	3391.9	70563.	5124.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.467%	96.966%	97.244%	97.717%
Range				

Sample Name: 480-198941-A-1-C MSD Acquired: 6/15/2022 1:33:38 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04839**	**9.6944**	**.20904**	**.19206**	**.20330**
Stddev	.00046	.0071	.00018	.00035	.00013
%RSD	.94685	.07360	.08513	.18454	.06269
#1	.04871	9.6894	.20892	.19181	.20321
#2	.04806	9.6995	.20917	.19231	.20339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20814**	**10.044**	**.19357**	**-.0700**	**.18962**
Stddev	.00038	.029	.00024	.0363	.00018
%RSD	.18260	.29137	.12230	51.80	.09381
#1	.20840	10.064	.19340	-.0957	.18975
#2	.20787	10.023	.19373	-.0444	.18950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20536**	**.20684**	**10.202**	**9.8090**	**.18599**
Stddev	.00105	.00076	.013	.0385	.00020
%RSD	.51006	.36822	.12285	.39233	.10574
#1	.20462	.20630	10.211	9.7818	.18585
#2	.20610	.20737	10.193	9.8362	.18613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-1-C MSD Acquired: 6/15/2022 1:33:38 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6403**	**.20261**	**.20801**	**17.420**	**.18815**
Stddev	.0002	.00007	.00050	.037	.00024
%RSD	.00241	.03403	.24161	.21235	.12944
#1	9.6402	.20256	.20837	17.446	.18832
#2	9.6405	.20266	.20766	17.393	.18798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.18717**	**89.366**	**.20047**	**.23219**
Stddev	.00	.00018	.447	.00012	.00223
%RSD	.0035	.09789	.50002	.05787	.95839
#1	25.00	.18730	89.682	.20056	.23376
#2	25.01	.18704	89.050	.20039	.23061
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2684**	**.22428**	**.19769**	**1.003**	**.20517**
Stddev	.0236	.00027	.00023	.004	.00051
%RSD	.25442	.12091	.11671	.4491	.24694
#1	9.2850	.22447	.19786	1.000	.20481
#2	9.2517	.22409	.19753	1.007	.20552
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-1-C MSD Acquired: 6/15/2022 1:33:38 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.18648**	**.20042**	**.20018**	**.9999**
Stddev	.00028	.00029	.00135	.0001
%RSD	.14978	.14719	.67516	.0134
#1	.18628	.20021	.20114	.9999
#2	.18667	.20062	.19923	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3739.4**	**3394.6**	**70693.**	**5095.3**
Stddev	4.0	2.8	36.	2.4
%RSD	.10697	.08105	.05033	.04667
#1	3736.5	3396.6	70718.	5093.6
#2	3742.2	3392.7	70667.	5097.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.529%	97.083%	97.615%	97.358%
Range				

Sample Name: 480-198941-A-2-A Acquired: 6/15/2022 1:37:19 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.05207**	**.00185**	**.00774**	**.00059**
Stddev	.00007	.00214	.00004	.00026	.00002
%RSD	105.89	4.1154	1.9466	3.3795	2.5981
#1	.00002	.05055	.00182	.00793	.00060
#2	.00011	.05358	.00187	.00756	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.29672**	**.00016**	**-.0271**	**.00027**
Stddev	.00007	.00068	.00018	.0035	.00005
%RSD	91.464	.22967	116.78	12.92	16.597
#1	.00012	.29720	.00028	-.0295	.00030
#2	.00003	.29624	.00003	-.0246	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00074**	**.00038**	**.02922**	**.09750**	**-.00146**
Stddev	.00020	.00004	.00110	.00684	.00074
%RSD	26.973	11.595	3.7760	7.0186	50.421
#1	.00060	.00035	.02844	.10234	-.00198
#2	.00088	.00041	.03000	.09266	-.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-2-A Acquired: 6/15/2022 1:37:19 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07636**	**.00064**	**-.00081**	**7.8515**	**.00145**
Stddev	.00037	.00002	.00017	.0103	.00002
%RSD	.48466	3.7657	21.576	.13071	1.2374
#1	.07662	.00065	-.00068	7.8587	.00144
#2	.07610	.00062	-.00093	7.8442	.00147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00002**	**77.524**	**.00078**	**.01519**
Stddev	.00	.00049	2.581	.00109	.00223
%RSD	.0022	2780.9	3.3297	139.10	14.705
#1	25.00	-.00033	79.349	.00155	.01361
#2	25.00	.00036	75.699	.00001	.01677
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06552**	**.00168**	**.00129**	**1.006**	**.00027**
Stddev	.00070	.00012	.00008	.000	.00030
%RSD	1.0667	7.3047	6.5037	.0252	111.35
#1	.06601	.00159	.00135	1.006	.00006
#2	.06502	.00176	.00123	1.006	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-2-A Acquired: 6/15/2022 1:37:19 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00456**	**.00003**	**.01350**	**.9995**
Stddev	.00097	.00026	.00061	.0004
%RSD	21.266	893.21	4.5203	.0393
#1	-.00525	-.00016	.01307	.9998
#2	-.00388	.00021	.01393	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3924.4**	**3452.5**	**71826.**	**5158.9**
Stddev	.7	3.2	171.	24.0
%RSD	.01766	.09258	.23738	.46587
#1	3924.9	3450.3	71946.	5141.9
#2	3923.9	3454.8	71705.	5175.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.31%	98.739%	99.179%	98.573%
Range				

Sample Name: 480-198941-A-3-A Acquired: 6/15/2022 1:41:12 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**.01771**	**.00211**	**.00715**	**.00062**
Stddev	.00011	.00099	.00000	.00054	.00003
%RSD	24.920	5.6054	.06331	7.5437	5.0788
#1	.00054	.01700	.00211	.00677	.00064
#2	.00038	.01841	.00211	.00753	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.14673**	**.00015**	**.0039**	**.00022**
Stddev	.00003	.00207	.00004	.0521	.00012
%RSD	34.107	1.4135	29.397	1348.	53.974
#1	.00011	.14819	.00012	.0407	.00030
#2	.00007	.14526	.00018	-.0330	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**.00050**	**.02687**	**.10776**	**-.00035**
Stddev	.00007	.00068	.00082	.03358	.00042
%RSD	9.3732	136.12	3.0570	31.159	119.79
#1	.00074	.00002	.02629	.08402	-.00064
#2	.00085	.00098	.02745	.13150	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-3-A Acquired: 6/15/2022 1:41:12 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06253**	**.00046**	**-.00138**	**7.8831**	**.00108**
Stddev	.00353	.00004	.00020	.0069	.00007
%RSD	5.6495	9.0569	14.778	.08695	6.7017
#1	.06503	.00049	-.00123	7.8782	.00113
#2	.06004	.00043	-.00152	7.8879	.00103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00089**	**77.824**	**.00277**	**.01224**
Stddev	.00	.00008	3.332	.00145	.00132
%RSD	.0025	8.7952	4.2816	52.551	10.792
#1	25.00	.00095	80.180	.00174	.01131
#2	25.00	.00084	75.468	.00379	.01318
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05041**	**.00195**	**.00119**	**1.005**	**.00058**
Stddev	.00058	.00067	.00012	.003	.00021
%RSD	1.1473	34.123	10.430	.2460	36.182
#1	.05082	.00242	.00111	1.007	.00043
#2	.05000	.00148	.00128	1.004	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-3-A Acquired: 6/15/2022 1:41:12 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00542**	**.00007**	**-.00017**	**1.000**
Stddev	.00049	.00006	.00036	.001
%RSD	9.0341	76.310	204.88	.0683
#1	-.00508	.00003	.00008	.9998
#2	-.00577	.00011	-.00042	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3938.5**	**3462.2**	**72023.**	**5182.7**
Stddev	2.0	4.0	150.	6.8
%RSD	.05157	.11682	.20769	.13192
#1	3939.9	3465.1	71917.	5187.5
#2	3937.1	3459.3	72129.	5177.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.67%	99.016%	99.452%	99.027%
Range				

Sample Name: 480-198941-A-4-A Acquired: 6/15/2022 1:45:05 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00607**	**.00312**	**.00677**	**.00052**
Stddev	.00059	.02263	.00003	.00067	.00001
%RSD	636.09	372.75	1.1188	9.9597	2.0672
#1	.00051	-.00993	.00315	.00724	.00052
#2	-.00033	.02207	.00310	.00629	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.15426**	**.00014**	**-.0550**	**.00013**
Stddev	.00004	.00455	.00001	.0775	.00005
%RSD	38.906	2.9482	9.3183	141.0	34.935
#1	.00007	.15104	.00015	-.1098	.00010
#2	.00012	.15748	.00013	-.0002	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.00070**	**.02466**	**.11220**	**-.00086**
Stddev	.00040	.00006	.00212	.02813	.00162
%RSD	108.44	8.7060	8.6068	25.074	189.55
#1	.00009	.00065	.02616	.09231	-.00200
#2	.00065	.00074	.02316	.13209	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-4-A Acquired: 6/15/2022 1:45:05 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06333**	**.00040**	**-.00137**	**7.6202**	**.00135**
Stddev	.00158	.00005	.00013	.0234	.00036
%RSD	2.4882	12.974	9.1257	.30753	26.637
#1	.06221	.00036	-.00146	7.6368	.00109
#2	.06444	.00043	-.00128	7.6037	.00160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00015**	**74.031**	**.00278**	**.00956**
Stddev	.00	.00098	2.617	.00171	.00040
%RSD	.0017	648.63	3.5350	61.650	4.1586
#1	25.00	.00054	75.882	.00157	.00984
#2	25.00	-.00084	72.181	.00399	.00928
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05851**	**.00157**	**.00119**	**1.003**	**.00007**
Stddev	.00118	.00066	.00013	.000	.00011
%RSD	2.0193	42.077	10.795	.0119	166.75
#1	.05935	.00110	.00128	1.003	-.00001
#2	.05767	.00203	.00109	1.003	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-4-A Acquired: 6/15/2022 1:45:05 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00560**	**-.00023**	**.00068**	**1.000**
Stddev	.00049	.00006	.00045	.001
%RSD	8.7269	24.920	66.748	.0894
#1	-.00526	-.00019	.00036	.9995
#2	-.00595	-.00027	.00100	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3933.4**	**3457.0**	**71779.**	**5129.0**
Stddev	2.2	4.0	396.	4.1
%RSD	.05539	.11505	.55198	.07965
#1	3934.9	3459.8	72059.	5131.9
#2	3931.8	3454.1	71499.	5126.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.54%	98.866%	99.115%	98.002%
Range				

Sample Name: 480-198941-A-5-A Acquired: 6/15/2022 1:48:57 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.02683**	**.00169**	**.00695**	**.00052**
Stddev	.00070	.01465	.00018	.00012	.00000
%RSD	1871.1	54.588	10.840	1.7460	.89213
#1	.00046	.03719	.00156	.00687	.00052
#2	-.00054	.01647	.00182	.00704	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.21964**	**-.00001**	**-.0604**	**.00017**
Stddev	.00011	.00074	.00018	.1114	.00014
%RSD	121.97	.33911	1314.3	184.4	82.801
#1	.00001	.22017	-.00014	.0184	.00007
#2	.00018	.21911	.00012	-.1392	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.00064**	**.02377**	**.09139**	**.00067**
Stddev	.00022	.00000	.00084	.01836	.00200
%RSD	54.844	.26339	3.5500	20.094	300.35
#1	.00056	.00064	.02318	.10438	-.00075
#2	.00025	.00064	.02437	.07841	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-5-A Acquired: 6/15/2022 1:48:57 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06291**	**.00050**	**-.00129**	**7.7647**	**.00091**
Stddev	.00097	.00002	.00008	.0202	.00032
%RSD	1.5379	4.3298	6.2978	.25966	34.913
#1	.06222	.00048	-.00124	7.7504	.00114
#2	.06359	.00051	-.00135	7.7789	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00109**	**74.997**	**.00132**	**.01139**
Stddev	.00	.00045	3.188	.00027	.00135
%RSD	.0019	40.929	4.2506	20.609	11.839
#1	25.00	.00141	77.251	.00151	.01234
#2	25.00	.00078	72.743	.00113	.01044
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05440**	**.00207**	**.00125**	**.9987**	**.00033**
Stddev	.01028	.00008	.00007	.0002	.00012
%RSD	18.906	3.6845	5.9627	.0193	36.068
#1	.06167	.00213	.00120	.9988	.00042
#2	.04712	.00202	.00130	.9986	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-5-A Acquired: 6/15/2022 1:48:57 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00482**	**-.00025**	**.00676**	**.9996**
Stddev	.00079	.00003	.00009	.0006
%RSD	16.465	11.891	1.3492	.0629
#1	-.00426	-.00023	.00682	.9991
#2	-.00538	-.00027	.00669	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3936.9**	**3460.2**	**72103.**	**5095.9**
Stddev	.7	.8	135.	18.6
%RSD	.01875	.02395	.18717	.36421
#1	3936.3	3459.6	72199.	5109.0
#2	3937.4	3460.8	72008.	5082.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.63%	98.958%	99.563%	97.368%
Range				

Sample Name: CCV-7032336 Acquired: 6/15/2022 1:52:51 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0255**	**50.341**	**1.0186**	**1.0490**	**.99542**
Stddev	.0015	.169	.0015	.0015	.00209
%RSD	.14827	.33659	.14456	.14082	.21034
#1	1.0244	50.221	1.0196	1.0480	.99394
#2	1.0266	50.460	1.0175	1.0501	.99690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0230**	**50.113**	**1.0263**	**.9529**	**1.0081**
Stddev	.0031	.139	.0004	.0283	.0002
%RSD	.29868	.27651	.03713	2.974	.01593
#1	1.0209	50.015	1.0261	.9730	1.0080
#2	1.0252	50.211	1.0266	.9329	1.0083
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0369**	**1.0448**	**51.440**	**51.078**	**.99724**
Stddev	.0008	.0000	.070	.104	.00238
%RSD	.07306	.00071	.13679	.20351	.23884
#1	1.0374	1.0448	51.489	51.004	.99555
#2	1.0364	1.0448	51.390	51.151	.99892
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 1:52:51 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.734**	**1.0341**	**1.0301**	**50.612**	**1.0207**
Stddev	.036	.0001	.0018	.195	.0005
%RSD	.07031	.00614	.16979	.38526	.05137
#1	50.759	1.0341	1.0313	50.474	1.0203
#2	50.709	1.0341	1.0289	50.750	1.0210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.76**	**1.0173**	**26.252**	**1.0183**	**1.0270**
Stddev	.01	.0001	.106	.0028	.0050
%RSD	.0173	.01340	.40261	.27312	.48864
#1	37.76	1.0172	26.177	1.0203	1.0305
#2	37.76	1.0174	26.327	1.0164	1.0234
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9279**	**1.0102**	**1.0104**	**1.509**	**1.0280**
Stddev	.0469	.0023	.0019	.001	.0020
%RSD	.47249	.23066	.18586	.0765	.19450
#1	9.8948	1.0118	1.0090	1.508	1.0294
#2	9.9611	1.0085	1.0117	1.510	1.0266
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 1:52:51 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0354**	**1.0324**	**1.0280**	**1.509**
Stddev	.0014	.0016	.0052	.000
%RSD	.13885	.15302	.50284	.0179
#1	1.0364	1.0335	1.0317	1.509
#2	1.0344	1.0313	1.0244	1.510
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3350.0**	**3334.0**	**67737.**	**5033.9**
Stddev	.2	.1	127.	25.2
%RSD	.00560	.00315	.18821	.50049
#1	3349.9	3334.0	67827.	5051.8
#2	3350.2	3333.9	67647.	5016.1

Sample Name: CCB-7026764 Acquired: 6/15/2022 1:56:31 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.00452**	**.00244**	**.00095**	**.00003**
Stddev	.00053	.02929	.00083	.00002	.00000
%RSD	91.808	647.55	34.264	2.6087	7.1211
#1	.00094	-.01619	.00303	.00096	.00003
#2	.00020	.02524	.00185	.00093	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00481**	**.00011**	**-.0339**	**.00032**
Stddev	.00003	.00141	.00006	.0094	.00001
%RSD	82.490	29.286	55.633	27.62	3.8568
#1	.00001	-.00381	.00007	-.0273	.00033
#2	.00005	-.00580	.00015	-.0405	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**-.00010**	**.00337**	**-.02669**	**-.00019**
Stddev	.00009	.00017	.00103	.00244	.00073
%RSD	21.900	174.85	30.415	9.1298	391.06
#1	-.00034	-.00021	.00265	-.02842	.00033
#2	-.00047	.00002	.00410	-.02497	-.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 1:56:31 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00325**	**.00003**	**.00120**	**.04882**	**.00019**
Stddev	.00095	.00001	.00035	.00193	.00008
%RSD	29.326	40.251	29.303	3.9620	42.645
#1	-.00258	.00002	.00095	.05019	.00024
#2	-.00392	.00004	.00144	.04746	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00047**	**.15503**	**.00124**	**.00714**
Stddev	.00	.00024	.03969	.00037	.00223
%RSD	.0013	50.867	25.602	29.792	31.260
#1	25.00	.00063	.12696	.00150	.00872
#2	25.00	.00030	.18309	.00098	.00556
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02037**	**.00010**	**.00008**	**1.005**	**-.00019**
Stddev	.00347	.00028	.00005	.004	.00017
%RSD	17.033	278.35	54.854	.4055	88.882
#1	-.01792	.00030	.00005	1.007	-.00031
#2	-.02282	-.00010	.00012	1.002	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 1:56:31 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00219**	**-.00011**	**-.00069**	**1.000**
Stddev	.00131	.00011	.00015	.000
%RSD	59.561	95.388	22.155	.0337
#1	.00127	-.00004	-.00080	1.000
#2	.00311	-.00019	-.00058	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3943.2**	**3553.5**	**73225.**	**5186.9**
Stddev	7.3	5.9	12.	18.0
%RSD	.18617	.16701	.01698	.34781
#1	3938.0	3549.3	73233.	5174.2
#2	3948.4	3557.7	73216.	5199.7

Sample Name: CCVL-7028546 Acquired: 6/15/2022 2:00:25 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00559**	**.19204**	**.01589**	**.01918**	**.00212**
Stddev	.00088	.01951	.00057	.00019	.00000
%RSD	15.820	10.159	3.5632	1.0163	.00777
#1	.00621	.20583	.01549	.01931	.00212
#2	.00496	.17824	.01629	.01904	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00214**	**.50278**	**.00202**	**-.0883**	**.00389**
Stddev	.00003	.00202	.00011	.0106	.00001
%RSD	1.6042	.40164	5.2228	12.03	.15141
#1	.00216	.50135	.00210	-.0808	.00389
#2	.00211	.50421	.00195	-.0958	.00389
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00373**	**.01086**	**.05155**	**.46051**	**.02744**
Stddev	.00002	.00027	.00011	.00103	.00180
%RSD	.55109	2.4800	.20514	.22441	6.5662
#1	.00371	.01067	.05163	.46124	.02872
#2	.00374	.01105	.05148	.45978	.02617
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/15/2022 2:00:25 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19431**	**.00316**	**.00931**	**1.0324**	**.00970**
Stddev	.00046	.00000	.00036	.0039	.00019
%RSD	.23739	.05890	3.9094	.38144	1.9201
#1	.19398	.00316	.00906	1.0296	.00983
#2	.19464	.00316	.00957	1.0352	.00957
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00928**	**.22783**	**.01905**	**.02531**
Stddev	.00	.00077	.00837	.00001	.00127
%RSD	.0028	8.2554	3.6718	.07601	5.0295
#1	25.00	.00982	.22192	.01906	.02441
#2	25.00	.00874	.23375	.01904	.02621
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45704**	**.00959**	**.00509**	F **1.005**	**.00436**
Stddev	.01473	.00019	.00004	.003	.00020
%RSD	3.2232	1.9469	.74981	.2454	4.6455
#1	.44663	.00972	.00512	1.003	.00422
#2	.46746	.00946	.00506	1.007	.00451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/15/2022 2:00:25 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02156**	**.00490**	**.00904**	F **.9996**
Stddev	.00107	.00006	.00072	.0006
%RSD	4.9703	1.3136	7.9924	.0625
#1	.02080	.00495	.00853	.9992
#2	.02232	.00486	.00955	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3922.5**	**3549.1**	**73081.**	**5134.1**
Stddev	5.6	7.1	73.	10.9
%RSD	.14266	.19951	.09941	.21304
#1	3926.5	3554.1	73132.	5141.8
#2	3918.6	3544.1	73029.	5126.3

Sample Name: 480-198941-A-6-A Acquired: 6/15/2022 2:04:18 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.02345**	**.00088**	**.00722**	**.00053**
Stddev	.00030	.02669	.00148	.00017	.00001
%RSD	1433.5	113.82	168.63	2.3146	1.9965
#1	-.00019	.00458	-.00017	.00733	.00052
#2	.00023	.04232	.00193	.00710	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.14586**	**.00019**	**-.0335**	**.00014**
Stddev	.00002	.00003	.00004	.0041	.00000
%RSD	22.401	.02172	21.644	12.11	2.9111
#1	.00006	.14589	.00022	-.0306	.00013
#2	.00008	.14584	.00016	-.0364	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00076**	**.00083**	**.02003**	**.08935**	**-.00016**
Stddev	.00003	.00018	.00042	.02354	.00147
%RSD	3.4799	21.659	2.0946	26.350	936.82
#1	.00078	.00096	.02032	.10600	.00089
#2	.00074	.00071	.01973	.07270	-.00120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-6-A Acquired: 6/15/2022 2:04:18 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06327**	**.00030**	**-.00103**	**7.7760**	**.00129**
Stddev	.00011	.00003	.00027	.0056	.00004
%RSD	.16648	10.033	25.832	.07149	2.9033
#1	.06334	.00032	-.00122	7.7721	.00126
#2	.06319	.00028	-.00084	7.7800	.00132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00084**	**76.902**	**.00201**	**.01111**
Stddev	.00	.00008	2.677	.00198	.00048
%RSD	.0004	9.1189	3.4805	98.324	4.2974
#1	25.00	.00078	78.795	.00061	.01144
#2	25.00	.00089	75.010	.00341	.01077
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04069**	**.00196**	**.00111**	**.9996**	**.00039**
Stddev	.00208	.00027	.00000	.0024	.00015
%RSD	5.1185	13.760	.23217	.2368	39.834
#1	.03922	.00216	.00111	.9979	.00028
#2	.04216	.00177	.00111	1.001	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-6-A Acquired: 6/15/2022 2:04:18 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00358**	**-.00001**	**.00092**	**.9996**
Stddev	.00056	.00003	.00012	.0009
%RSD	15.688	308.45	13.178	.0861
#1	-.00397	-.00003	.00100	1.000
#2	-.00318	.00001	.00083	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3934.0**	**3452.5**	**71611.**	**5129.5**
Stddev	.6	1.3	197.	4.5
%RSD	.01592	.03788	.27524	.08796
#1	3933.6	3451.5	71472.	5132.7
#2	3934.5	3453.4	71751.	5126.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.55%	98.737%	98.883%	98.012%
Range				

Sample Name: 480-198941-A-7-A Acquired: 6/15/2022 2:08:11 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.01685**	**.00023**	**.00732**	**.00050**
Stddev	.00067	.02223	.00081	.00029	.00001
%RSD	209.48	131.98	352.91	4.0027	2.0797
#1	-.00079	.00112	-.00034	.00753	.00050
#2	.00015	.03257	.00080	.00712	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.15413**	**.00008**	**-.0902**	**.00027**
Stddev	.00005	.00038	.00012	.0079	.00005
%RSD	80.547	.24507	150.58	8.721	17.049
#1	.00003	.15386	.00017	-.0958	.00024
#2	.00011	.15440	-.00001	-.0847	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.00071**	**.03047**	**.10137**	**-.00060**
Stddev	.00017	.00036	.00125	.05781	.00169
%RSD	55.020	51.536	4.0980	57.028	284.02
#1	.00043	.00045	.03135	.14225	.00060
#2	.00019	.00096	.02958	.06049	-.00179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-7-A Acquired: 6/15/2022 2:08:11 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08052**	**.00024**	**-.00127**	**7.9783**	**.00140**
Stddev	.00105	.00003	.00036	.0217	.00007
%RSD	1.3081	12.236	28.274	.27244	4.6609
#1	.07977	.00026	-.00152	7.9937	.00135
#2	.08126	.00022	-.00101	7.9630	.00145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00080**	**73.909**	**.00164**	**.01083**
Stddev	.00	.00046	2.547	.00064	.00268
%RSD	.0019	57.952	3.4464	39.109	24.704
#1	25.00	-.00047	75.710	.00210	.01272
#2	25.00	-.00112	72.107	.00119	.00894
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05674**	**.00173**	**.00113**	**1.001**	**.00019**
Stddev	.00578	.00055	.00004	.003	.00007
%RSD	10.195	31.725	3.8222	.2891	34.178
#1	.05265	.00134	.00110	.9992	.00014
#2	.06083	.00212	.00116	1.003	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-7-A Acquired: 6/15/2022 2:08:11 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00423**	**-.00006**	**-.00026**	**.9998**
Stddev	.00001	.00023	.00050	.0001
%RSD	.28294	396.30	192.90	.0070
#1	-.00422	.00010	-.00061	.9999
#2	-.00424	-.00022	.00009	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3930.2**	**3448.7**	**71969.**	**5128.2**
Stddev	5.8	1.1	193.	8.9
%RSD	.14851	.03200	.26873	.17290
#1	3934.4	3449.4	72105.	5121.9
#2	3926.1	3447.9	71832.	5134.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.46%	98.628%	99.377%	97.986%
Range				

Sample Name: 480-198941-A-8-A Acquired: 6/15/2022 2:12:03 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00355**	**.00052**	**.00694**	**.00056**
Stddev	.00028	.01416	.00048	.00030	.00002
%RSD	218.09	398.54	92.229	4.3008	3.7914
#1	.00007	-.00646	.00018	.00715	.00054
#2	-.00033	.01357	.00085	.00673	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.17815**	**.00013**	**-.0966**	**.00022**
Stddev	.00001	.00656	.00010	.0656	.00009
%RSD	48.656	3.6821	79.190	67.95	38.987
#1	.00001	.18279	.00006	-.0502	.00016
#2	.00002	.17351	.00020	-.1430	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00050**	**.02532**	**.07589**	**.00013**
Stddev	.00046	.00033	.00125	.01906	.00055
%RSD	141.13	65.663	4.9201	25.114	432.21
#1	.00000	.00074	.02444	.08937	.00052
#2	.00065	.00027	.02620	.06241	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-8-A Acquired: 6/15/2022 2:12:03 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11570**	**.00089**	**-.00127**	**7.5222**	**.00103**
Stddev	.00379	.00005	.00009	.0062	.00006
%RSD	3.2740	5.8430	7.4042	.08205	5.7195
#1	.11302	.00092	-.00120	7.5266	.00107
#2	.11838	.00085	-.00134	7.5179	.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00064**	**72.091**	**.00110**	**.01105**
Stddev	.00	.00068	2.464	.00100	.00498
%RSD	.0016	107.17	3.4183	90.739	45.106
#1	25.00	.00015	73.833	.00180	.01458
#2	25.00	.00112	70.348	.00039	.00753
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11813**	**.00204**	**.00122**	**1.004**	**.00036**
Stddev	.00710	.00016	.00001	.002	.00014
%RSD	6.0078	7.7447	.59634	.1785	39.078
#1	.11311	.00215	.00122	1.005	.00046
#2	.12315	.00193	.00123	1.002	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-8-A Acquired: 6/15/2022 2:12:03 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00413**	**-.00010**	**.00084**	**.9993**
Stddev	.00121	.00008	.00080	.0009
%RSD	29.413	83.075	94.552	.0887
#1	-.00327	-.00016	.00028	1.0000
#2	-.00499	-.00004	.00140	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3928.6**	**3458.4**	**71717.**	**5147.4**
Stddev	4.3	.5	68.	.0
%RSD	.10960	.01577	.09450	.00075
#1	3925.6	3458.8	71764.	5147.4
#2	3931.7	3458.0	71669.	5147.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.41%	98.907%	99.028%	98.354%
Range				

Sample Name: 480-198941-A-9-A Acquired: 6/15/2022 2:15:56 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.02161**	**.00200**	**.00726**	**.00053**
Stddev	.00031	.01457	.00099	.00020	.00000
%RSD	333.38	67.408	49.463	2.7555	.61168
#1	-.00013	.01131	.00270	.00740	.00053
#2	.00031	.03191	.00130	.00712	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.17208**	**.00015**	**-.0574**	**.00018**
Stddev	.00005	.00014	.00004	.0430	.00002
%RSD	47.519	.08136	24.154	74.99	11.145
#1	.00014	.17218	.00012	-.0878	.00019
#2	.00007	.17198	.00017	-.0269	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.00103**	**.02163**	**.13894**	**-.00079**
Stddev	.00026	.00002	.00082	.00592	.00121
%RSD	46.106	1.5659	3.8076	4.2606	154.08
#1	.00038	.00102	.02105	.14312	.00007
#2	.00074	.00105	.02221	.13475	-.00164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-9-A Acquired: 6/15/2022 2:15:56 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06432**	**.00035**	**-.00144**	**7.9403**	**.00119**
Stddev	.00196	.00005	.00012	.0147	.00021
%RSD	3.0475	13.103	8.1696	.18541	17.261
#1	.06294	.00032	-.00136	7.9507	.00105
#2	.06571	.00039	-.00153	7.9299	.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00051**	**78.358**	**.00260**	**.01392**
Stddev	.00	.00018	2.591	.00043	.00575
%RSD	.0023	35.583	3.3071	16.731	41.288
#1	25.00	.00038	80.190	.00290	.01799
#2	25.00	.00064	76.525	.00229	.00986
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03387**	**.00191**	**.00115**	**.9981**	**.00047**
Stddev	.01228	.00027	.00010	.0046	.00012
%RSD	36.262	14.085	8.2559	.4652	25.359
#1	.04255	.00172	.00109	1.001	.00039
#2	.02518	.00210	.00122	.9948	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-9-A Acquired: 6/15/2022 2:15:56 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00463**	**-.00017**	**.00224**	**.9995**
Stddev	.00073	.00034	.00016	.0002
%RSD	15.773	192.74	7.0520	.0176
#1	-.00515	-.00041	.00213	.9994
#2	-.00412	.00006	.00235	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3937.3**	**3451.9**	**71773.**	**5138.2**
Stddev	1.4	1.9	26.	12.6
%RSD	.03490	.05400	.03684	.24431
#1	3936.3	3453.2	71755.	5147.1
#2	3938.2	3450.5	71792.	5129.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.64%	98.720%	99.107%	98.177%
Range				

Sample Name: 480-198941-A-10-A Acquired: 6/15/2022 2:19:49 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00870**	**.00293**	**.00656**	**.00050**
Stddev	.00012	.01602	.00062	.00033	.00000
%RSD	37.079	184.15	21.121	5.0265	.10660
#1	-.00041	-.00263	.00337	.00633	.00050
#2	-.00024	.02003	.00250	.00679	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.14987**	**.00009**	**-.0543**	**.00039**
Stddev	.00002	.00129	.00016	.0454	.00003
%RSD	21.239	.86150	180.23	83.66	8.8792
#1	.00010	.15079	-.00003	-.0222	.00037
#2	.00008	.14896	.00021	-.0865	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**.00064**	**.02003**	**.10156**	**.00099**
Stddev	.00005	.00027	.00235	.00588	.00065
%RSD	11.809	42.598	11.716	5.7917	65.486
#1	.00047	.00045	.02169	.09741	.00145
#2	.00040	.00083	.01837	.10572	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-10-A Acquired: 6/15/2022 2:19:49 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05929**	**.00030**	**-.00145**	**7.6386**	**.00121**
Stddev	.00074	.00001	.00001	.0145	.00008
%RSD	1.2414	1.7319	.65295	.19013	6.6287
#1	.05876	.00030	-.00144	7.6489	.00127
#2	.05981	.00030	-.00146	7.6284	.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00010**	**74.277**	**.00338**	**.01363**
Stddev	.00	.00050	2.479	.00207	.00127
%RSD	.0003	518.66	3.3371	61.339	9.3484
#1	25.00	-.00026	76.030	.00191	.01273
#2	25.00	.00045	72.524	.00484	.01453
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07798**	**.00179**	**.00124**	**.9991**	**.00053**
Stddev	.01165	.00040	.00003	.0060	.00003
%RSD	14.936	22.564	2.7248	.6006	5.3682
#1	.08622	.00207	.00126	1.003	.00051
#2	.06975	.00150	.00121	.9949	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-10-A Acquired: 6/15/2022 2:19:49 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00508**	**.00012**	**.00425**	**.9998**
Stddev	.00024	.00028	.00072	.0001
%RSD	4.6524	226.48	16.863	.0132
#1	-.00491	-.00007	.00375	.9997
#2	-.00525	.00032	.00476	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3930.8**	**3456.9**	**71913.**	**5156.0**
Stddev	7.5	5.8	111.	26.7
%RSD	.18960	.16769	.15448	.51696
#1	3936.1	3461.0	71991.	5137.1
#2	3925.6	3452.8	71834.	5174.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.47%	98.863%	99.299%	98.517%
Range				

Sample Name: 480-198941-A-11-A Acquired: 6/15/2022 2:23:41 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.03189**	**.00456**	**.00702**	**.00054**
Stddev	.00020	.01047	.00176	.00037	.00002
%RSD	229.99	32.835	38.492	5.2487	4.0416
#1	-.00005	.03929	.00580	.00728	.00052
#2	.00022	.02448	.00332	.00676	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.14901**	**.00015**	**-.0731**	**.00016**
Stddev	.00005	.00075	.00006	.0917	.00026
%RSD	99.182	.50004	39.503	125.4	158.19
#1	.00002	.14848	.00011	-.1379	.00034
#2	.00009	.14954	.00019	-.0083	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.00063**	**.02093**	**.11035**	**.00053**
Stddev	.00018	.00001	.00260	.04516	.00072
%RSD	25.108	.88042	12.400	40.924	135.71
#1	.00084	.00063	.01909	.07842	.00002
#2	.00058	.00062	.02276	.14228	.00103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-11-A Acquired: 6/15/2022 2:23:41 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06105**	**.00024**	**-.00133**	**7.9835**	**.00100**
Stddev	.00053	.00000	.00002	.0034	.00012
%RSD	.86531	.88831	1.3762	.04310	11.526
#1	.06143	.00025	-.00132	7.9810	.00108
#2	.06068	.00024	-.00134	7.9859	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00076**	**74.577**	**.00103**	**.01051**
Stddev	.00	.00104	2.665	.00055	.00021
%RSD	.0034	137.54	3.5738	53.203	1.9934
#1	25.00	.00002	76.461	.00141	.01065
#2	25.00	.00149	72.692	.00064	.01036
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10508**	**.00180**	**.00125**	**1.004**	**.00045**
Stddev	.00556	.00055	.00003	.001	.00021
%RSD	5.2886	30.309	2.2038	.0945	46.385
#1	.10115	.00219	.00127	1.003	.00030
#2	.10901	.00142	.00123	1.004	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-11-A Acquired: 6/15/2022 2:23:41 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00445**	**.00026**	**.00018**	**1.000**
Stddev	.00099	.00018	.00011	.001
%RSD	22.342	70.340	59.018	.0922
#1	-.00516	.00039	.00010	.9996
#2	-.00375	.00013	.00026	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3932.5**	**3463.6**	**72147.**	**5146.1**
Stddev	.7	.3	134.	25.0
%RSD	.01670	.00907	.18608	.48531
#1	3933.0	3463.3	72242.	5163.8
#2	3932.1	3463.8	72052.	5128.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.52%	99.054%	99.622%	98.328%
Range				

Sample Name: 480-198941-A-12-A Acquired: 6/15/2022 2:27:34 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.01702**	**.00193**	**.00717**	**.00054**
Stddev	.00018	.00574	.00258	.00020	.00000
%RSD	40.176	33.709	133.39	2.8568	.62276
#1	-.00033	.01297	.00011	.00731	.00054
#2	-.00059	.02108	.00375	.00702	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.15477**	**.00008**	**-.0864**	**.00017**
Stddev	.00001	.00193	.00005	.0001	.00016
%RSD	9.8115	1.2469	56.414	.1247	90.906
#1	.00009	.15614	.00005	-.0864	.00006
#2	.00007	.15341	.00012	-.0863	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.00145**	**.02153**	**.09751**	**.00074**
Stddev	.00019	.00039	.00179	.04894	.00142
%RSD	62.680	26.642	8.2998	50.185	190.36
#1	.00017	.00173	.02279	.13212	.00175
#2	.00043	.00118	.02027	.06291	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-12-A Acquired: 6/15/2022 2:27:34 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06275**	**.00036**	**-.00128**	**7.9156**	**.00102**
Stddev	.00106	.00000	.00006	.0235	.00021
%RSD	1.6819	1.3531	4.7753	.29706	20.322
#1	.06200	.00036	-.00133	7.9322	.00087
#2	.06350	.00036	-.00124	7.8989	.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00011**	**74.812**	**.00225**	**.01109**
Stddev	.00	.00008	2.722	.00008	.00112
%RSD	.0025	74.756	3.6389	3.4589	10.134
#1	25.00	.00016	76.737	.00220	.01189
#2	25.00	.00005	72.887	.00231	.01030
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05979**	**.00181**	**.00114**	**1.003**	**.00021**
Stddev	.00967	.00056	.00004	.008	.00012
%RSD	16.169	30.986	3.7090	.8050	55.223
#1	.06663	.00142	.00117	.9975	.00013
#2	.05296	.00221	.00111	1.009	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198941-A-12-A Acquired: 6/15/2022 2:27:34 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00541**	**-.00022**	**.00070**	**1.000**
Stddev	.00081	.00023	.00016	.000
%RSD	15.002	101.00	23.386	.0404
#1	-.00598	-.00038	.00082	1.000
#2	-.00484	-.00006	.00058	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3935.1**	**3459.8**	**71855.**	**5156.2**
Stddev	2.8	3.8	257.	6.6
%RSD	.07000	.11069	.35826	.12750
#1	3933.1	3457.1	71673.	5151.6
#2	3937.0	3462.6	72037.	5160.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.58%	98.948%	99.220%	98.521%
Range				

Sample Name: 480-198904-C-1-A Acquired: 6/15/2022 2:31:26 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.18070**	**.00718**	**1.4073**	**.25255**
Stddev	.00077	.00224	.00183	.0012	.00052
%RSD	173.51	1.2402	25.494	.08553	.20457
#1	-.00099	.17911	.00847	1.4065	.25218
#2	.00010	.18228	.00588	1.4082	.25291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**136.98**	**.00004**	**-.0700**	**.00823**
Stddev	.00003	.01	.00001	.0713	.00030
%RSD	54.135	.00549	26.427	101.9	3.6865
#1	.00008	136.99	.00003	-.1204	.00845
#2	.00004	136.98	.00005	-.0195	.00802
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00254**	**.00016**	**29.999**	**90.710**	**.03098**
Stddev	.00030	.00005	.001	.082	.00001
%RSD	11.725	29.525	.00251	.09051	.03207
#1	.00275	.00013	29.999	90.768	.03099
#2	.00233	.00020	29.998	90.652	.03098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198904-C-1-A Acquired: 6/15/2022 2:31:26 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**225.95**	**.08350**	**-.00139**	**415.71**	**.02478**
Stddev	.09	.00025	.00009	.66	.00002
%RSD	.04154	.29857	6.6710	.15890	.07112
#1	226.02	.08333	-.00145	416.17	.02480
#2	225.88	.08368	-.00132	415.24	.02477
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.28**	**.00729**	**5.0225**	**.00472**	**-.00637**
Stddev	.00	.00031	.0994	.00289	.00022
%RSD	.0023	4.2027	1.9797	61.189	3.4338
#1	25.28	.00750	4.9522	.00268	-.00622
#2	25.28	.00707	5.0929	.00677	-.00653
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.612**	**.00436**	**.68643**	**1.010**	**.00866**
Stddev	.016	.00051	.00050	.006	.00004
%RSD	.13474	11.575	.07286	.6251	.50315
#1	11.623	.00472	.68679	1.015	.00863
#2	11.601	.00401	.68608	1.006	.00869
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198904-C-1-A Acquired: 6/15/2022 2:31:26 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00208**	**.00081**	**.01281**	**1.001**
Stddev	.00163	.00042	.00064	.000
%RSD	78.127	52.373	5.0254	.0330
#1	.00093	.00051	.01326	1.002
#2	.00323	.00111	.01235	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3052.8**	**3131.6**	**64251.**	**4985.0**
Stddev	3.1	2.4	57.	9.4
%RSD	.10280	.07727	.08916	.18940
#1	3050.5	3133.3	64291.	4991.7
#2	3055.0	3129.9	64210.	4978.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.805%	89.561%	88.720%	95.250%
Range				

Sample Name: 480-198904-C-2-A Acquired: 6/15/2022 2:35:26 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.11465**	**.00817**	**2.1329**	**.19362**
Stddev	.00094	.02907	.00161	.0038	.00044
%RSD	313.06	25.358	19.706	.17783	.22916
#1	-.00096	.09410	.00703	2.1303	.19331
#2	.00036	.13521	.00930	2.1356	.19393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**112.18**	**.00046**	**-.0444**	**.01454**
Stddev	.00000	.54	.00005	.0857	.00029
%RSD	2.4655	.47977	12.018	192.8	2.0140
#1	.00005	112.56	.00049	-.1050	.01433
#2	.00005	111.80	.00042	.0161	.01474
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00697**	**.00207**	**5.5755**	**150.56**	**.03669**
Stddev	.00022	.00019	.0249	.70	.00000
%RSD	3.0993	9.1635	.44577	.46475	.00157
#1	.00682	.00194	5.5931	151.05	.03669
#2	.00713	.00221	5.5579	150.06	.03669
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198904-C-2-A Acquired: 6/15/2022 2:35:26 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**241.07**	**.17593**	**.00088**	**824.57**	**.06251**
Stddev	.34	.00018	.00006	3.28	.00035
%RSD	.13917	.10068	7.3116	.39807	.56080
#1	241.31	.17606	.00083	826.89	.06226
#2	240.84	.17580	.00092	822.25	.06275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.24**	**.00397**	**11.593**	**.00488**	**-.00926**
Stddev	.00	.00058	.076	.00135	.00022
%RSD	.0003	14.526	.65480	27.703	2.3950
#1	25.24	.00438	11.539	.00392	-.00911
#2	25.24	.00356	11.646	.00584	-.00942
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.470**	**.00754**	**.53071**	**1.000**	**.00808**
Stddev	.062	.00055	.00203	.004	.00039
%RSD	.59191	7.2864	.38225	.3814	4.8122
#1	10.514	.00793	.53214	.9976	.00780
#2	10.427	.00715	.52927	1.003	.00835
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198904-C-2-A Acquired: 6/15/2022 2:35:26 Type: Unk
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00230**	**.00119**	**.04490**	**1.002**
Stddev	.00049	.00014	.00021	.000
%RSD	21.421	11.892	.46462	.0119
#1	.00264	.00129	.04505	1.002
#2	.00195	.00109	.04476	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2950.3**	**3070.8**	**62469.**	**4991.3**
Stddev	3.4	1.4	36.	29.0
%RSD	.11655	.04537	.05782	.58105
#1	2947.9	3069.8	62443.	4970.8
#2	2952.7	3071.8	62494.	5011.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.160%	87.822%	86.259%	95.370%
Range				

Sample Name: CCV-7032336 Acquired: 6/15/2022 2:39:26 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0151**	**49.980**	**1.0129**	**1.0405**	**.98654**
Stddev	.0008	.008	.0031	.0006	.00045
%RSD	.07980	.01653	.30776	.05459	.04600
#1	1.0157	49.986	1.0151	1.0409	.98686
#2	1.0145	49.974	1.0107	1.0401	.98622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0172**	**49.888**	**1.0183**	**.9022**	**1.0039**
Stddev	.0025	.149	.0001	.0321	.0009
%RSD	.24998	.29937	.01365	3.562	.08588
#1	1.0190	49.993	1.0182	.9250	1.0033
#2	1.0154	49.782	1.0184	.8795	1.0045
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0479**	**1.0380**	**51.553**	**51.388**	**.98834**
Stddev	.0027	.0006	.033	.097	.00455
%RSD	.26099	.05264	.06353	.18970	.46060
#1	1.0460	1.0384	51.529	51.457	.99156
#2	1.0498	1.0377	51.576	51.319	.98512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 2:39:26 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.486**	**1.0391**	**1.0305**	**50.504**	**1.0212**
Stddev	.006	.0001	.0019	.071	.0009
%RSD	.01224	.00601	.18763	.13998	.08842
#1	50.491	1.0392	1.0319	50.554	1.0206
#2	50.482	1.0391	1.0292	50.454	1.0219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.67**	**1.0182**	**25.545**	**1.0111**	**1.0267**
Stddev	.00	.0010	.015	.0014	.0032
%RSD	.0012	.09875	.05883	.13829	.30796
#1	37.67	1.0175	25.535	1.0101	1.0244
#2	37.67	1.0189	25.556	1.0121	1.0289
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9151**	**1.0082**	**1.0093**	**1.507**	**1.0336**
Stddev	.0014	.0024	.0019	.008	.0000
%RSD	.01418	.24177	.19041	.5538	.00435
#1	9.9141	1.0065	1.0107	1.501	1.0336
#2	9.9161	1.0099	1.0080	1.513	1.0336
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 2:39:26 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0345**	**1.0366**	**1.0336**	**1.512**
Stddev	.0013	.0003	.0029	.002
%RSD	.12920	.03249	.28221	.1161
#1	1.0335	1.0363	1.0316	1.513
#2	1.0354	1.0368	1.0357	1.511
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3372.3**	**3352.7**	**67884.**	**5027.2**
Stddev	3.0	.4	72.	22.1
%RSD	.08970	.01221	.10592	.43864
#1	3374.4	3352.4	67935.	5011.6
#2	3370.1	3353.0	67833.	5042.8

Sample Name: CCB-7026764 Acquired: 6/15/2022 2:43:06 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**-.01070**	**.00215**	**.00221**	**.00005**
Stddev	.00014	.00234	.00049	.00034	.00000
%RSD	51.915	21.860	22.879	15.574	8.9709
#1	-.00017	-.00905	.00180	.00197	.00006
#2	-.00038	-.01236	.00249	.00246	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00351**	**.00009**	**-.0453**	**.00022**
Stddev	.00001	.00125	.00006	.0396	.00010
%RSD	13.639	35.533	67.041	87.24	44.859
#1	.00004	-.00263	.00013	-.0174	.00015
#2	.00004	-.00439	.00005	-.0733	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00072**	**.00390**	**.08635**	**-.00041**
Stddev	.00007	.00006	.00081	.00014	.00255
%RSD	69.532	8.9159	20.861	.15698	625.89
#1	-.00015	.00068	.00448	.08645	-.00221
#2	-.00005	.00077	.00333	.08626	.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 2:43:06 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**-.00000**	**.00100**	**.08870**	**-.00000**
Stddev	.00295	.00005	.00056	.00522	.00001
%RSD	550.94	22116.	56.562	5.8843	400.64
#1	-.00155	.00004	.00060	.09239	.00000
#2	.00262	-.00004	.00139	.08501	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00096**	**.02686**	**.00086**	**.00414**
Stddev	.00	.00050	.00020	.00036	.00139
%RSD	.0019	52.436	.75354	42.137	33.548
#1	25.00	.00132	.02672	.00111	.00316
#2	25.00	.00060	.02700	.00060	.00512
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01659**	**.00037**	**.00021**	**1.001**	**-.00002**
Stddev	.01184	.00079	.00007	.001	.00022
%RSD	71.392	210.90	33.805	.1346	1075.7
#1	-.00822	-.00018	.00026	1.000	-.00018
#2	-.02497	.00093	.00016	1.002	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 2:43:06 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00228**	**-.00022**	**-.00068**	**1.000**
Stddev	.00041	.00009	.00039	.001
%RSD	17.868	42.953	57.530	.0609
#1	.00257	-.00029	-.00095	1.000
#2	.00199	-.00015	-.00040	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3926.7**	**3539.0**	**72629.**	**5136.4**
Stddev	6.3	4.3	253.	11.2
%RSD	.16007	.12097	.34901	.21789
#1	3931.2	3542.0	72450.	5128.5
#2	3922.3	3535.9	72808.	5144.4

Sample Name: CCVL-7028546 Acquired: 6/15/2022 2:47:01 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00614**	**.19292**	**.01474**	**.02031**	**.00210**
Stddev	.00025	.00553	.00248	.00026	.00003
%RSD	3.9980	2.8676	16.834	1.2946	1.3649
#1	.00631	.18901	.01299	.02050	.00212
#2	.00597	.19683	.01649	.02013	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00201**	**.49569**	**.00199**	**-.0229**	**.00397**
Stddev	.00002	.00140	.00007	.0220	.00011
%RSD	1.1288	.28302	3.5378	96.36	2.7373
#1	.00203	.49668	.00204	-.0385	.00390
#2	.00200	.49470	.00194	-.0073	.00405
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00397**	**.01096**	**.05206**	**.53422**	**.02733**
Stddev	.00011	.00002	.00196	.00129	.00138
%RSD	2.6569	.16493	3.7633	.24095	5.0437
#1	.00404	.01094	.05345	.53513	.02831
#2	.00389	.01097	.05067	.53331	.02636
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/15/2022 2:47:01 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19312**	**.00317**	**.00929**	**1.0251**	**.00995**
Stddev	.00152	.00008	.00017	.0005	.00010
%RSD	.78454	2.5621	1.8146	.05192	.99366
#1	.19419	.00323	.00917	1.0247	.01002
#2	.19205	.00312	.00941	1.0254	.00988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01014**	**.20631**	**.01886**	**.02426**
Stddev	.00	.00020	.00180	.00015	.00100
%RSD	.0008	1.9489	.87273	.81377	4.1143
#1	25.00	.01028	.20759	.01897	.02355
#2	25.00	.01000	.20504	.01876	.02496
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.43420**	**.00923**	**.00499**	F **1.002**	**.00455**
Stddev	.00465	.00069	.00004	.001	.00018
%RSD	1.0713	7.4511	.80683	.1342	3.9424
#1	.43091	.00972	.00502	1.001	.00442
#2	.43749	.00875	.00496	1.003	.00468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/15/2022 2:47:01 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02186**	**.00483**	**.00971**	F **.9990**
Stddev	.00053	.00001	.00041	.0003
%RSD	2.4325	.23040	4.1967	.0293
#1	.02149	.00484	.00999	.9988
#2	.02224	.00482	.00942	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3933.4**	**3558.7**	**72840.**	**5164.7**
Stddev	5.9	5.1	85.	6.7
%RSD	.14907	.14352	.11734	.12919
#1	3929.3	3555.1	72901.	5160.0
#2	3937.6	3562.3	72780.	5169.5

Sample Name: CCV-7032336 Acquired: 6/15/2022 2:50:55 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0166**	**50.758**	**1.0139**	**1.0418**	**1.0055**
Stddev	.0007	.126	.0049	.0011	.0039
%RSD	.06521	.24810	.48351	.10227	.38775
#1	1.0171	50.847	1.0174	1.0411	1.0083
#2	1.0161	50.669	1.0105	1.0426	1.0028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0284**	**50.726**	**1.0216**	**.9951**	**1.0115**
Stddev	.0031	.055	.0009	.0297	.0014
%RSD	.29946	.10873	.08576	2.980	.14177
#1	1.0306	50.765	1.0210	1.016	1.0105
#2	1.0262	50.687	1.0222	.9741	1.0125
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0429**	**1.0287**	**51.665**	**51.668**	**1.0062**
Stddev	.0003	.0012	.213	.055	.0011
%RSD	.02819	.12000	.41235	.10633	.11017
#1	1.0427	1.0278	51.514	51.707	1.0070
#2	1.0431	1.0296	51.815	51.629	1.0054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 2:50:55 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.792**	**1.0331**	**1.0304**	**50.962**	**1.0203**
Stddev	.005	.0010	.0020	.092	.0005
%RSD	.00965	.09278	.19207	.18146	.05271
#1	50.789	1.0338	1.0318	51.028	1.0200
#2	50.796	1.0324	1.0290	50.897	1.0207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.72**	**1.0196**	**25.437**	**1.0170**	**1.0198**
Stddev	.01	.0021	.010	.0007	.0014
%RSD	.0241	.20461	.04094	.06756	.13898
#1	37.72	1.0181	25.429	1.0174	1.0188
#2	37.71	1.0211	25.444	1.0165	1.0208
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.015**	**1.0140**	**1.0126**	**1.516**	**1.0286**
Stddev	.035	.0013	.0023	.008	.0008
%RSD	.34805	.12799	.23077	.5282	.08294
#1	9.9902	1.0131	1.0142	1.522	1.0292
#2	10.039	1.0149	1.0109	1.510	1.0280
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 2:50:55 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0348**	**1.0308**	**1.0413**	**1.512**
Stddev	.0012	.0003	.0068	.003
%RSD	.11493	.02586	.65072	.2132
#1	1.0356	1.0306	1.0460	1.510
#2	1.0340	1.0310	1.0365	1.514
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3352.6**	**3344.7**	**67734.**	**4950.6**
Stddev	4.1	1.3	50.	8.7
%RSD	.12177	.04017	.07365	.17546
#1	3355.5	3343.8	67699.	4956.8
#2	3349.8	3345.7	67770.	4944.5

Sample Name: CCB-7026764 Acquired: 6/15/2022 2:54:35 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**-.00674**	**.00195**	**.00156**	**.00004**
Stddev	.00025	.01676	.00005	.00014	.00001
%RSD	45.413	248.77	2.4306	9.1247	16.086
#1	.00037	-.01859	.00198	.00146	.00004
#2	.00073	.00512	.00191	.00166	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00007**	**.00003**	**.0269**	**.00036**
Stddev	.00010	.00154	.00011	.0723	.00017
%RSD	157.22	2067.7	372.90	268.8	45.803
#1	.00013	-.00101	-.00005	-.0242	.00024
#2	-.00001	.00116	.00011	.0780	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00024**	**.00376**	**.02996**	**.00029**
Stddev	.00014	.00034	.00014	.00649	.00175
%RSD	105.95	139.26	3.8211	21.652	599.80
#1	-.00023	.00048	.00386	.03454	.00153
#2	-.00003	.00000	.00366	.02537	-.00095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 2:54:35 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.00005**	**.00101**	**.04046**	**.00017**
Stddev	.00084	.00003	.00022	.00108	.00001
%RSD	430.44	64.376	22.175	2.6797	5.6873
#1	.00040	.00007	.00085	.03970	.00018
#2	-.00079	.00003	.00117	.04123	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00081**	**.01144**	**-.00105**	**.00443**
Stddev	.00	.00100	.00211	.00017	.00495
%RSD	.0011	124.06	18.448	16.202	111.77
#1	25.00	.00152	.00995	-.00093	.00792
#2	25.00	.00010	.01293	-.00117	.00093
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01805**	**.00076**	**.00014**	**1.005**	**.00003**
Stddev	.00690	.00005	.00002	.007	.00014
%RSD	38.222	6.5547	13.301	.7484	509.10
#1	-.02292	.00072	.00012	.9993	.00013
#2	-.01317	.00079	.00015	1.010	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 2:54:35 Type: QC
Method: ICAP1 Feb 2022(v113) Mode: CONC Corr. Factor: 1.000000
User: BB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00267**	**.00010**	**-.00075**	**.9993**
Stddev	.00009	.00036	.00061	.0002
%RSD	3.2427	365.94	81.358	.0157
#1	.00273	-.00016	-.00118	.9994
#2	.00261	.00036	-.00032	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3940.2**	**3550.2**	**73051.**	**5127.0**
Stddev	4.4	.8	117.	3.3
%RSD	.11212	.02154	.16035	.06357
#1	3943.4	3550.7	72969.	5124.6
#2	3937.1	3549.6	73134.	5129.3

Run File: I2061322A Instrument: ICAP2

Analyst: BLH Data Review: 6/14/22 BLH

Spikes Ids:6909430(W1), 6893436(W2),6902374(Sn), 6917474(Ag),6917504(Si), 6842082(TCLP), 6917511(S)
Pipette IDs: 3/22/22-(1-11)
Internal Standard:7026763

Seq#	Run File ID	Sample ID	Date / Time	Type
1	I2061322A	ICIS-7026764	6/13/2022 2:34:09PM	Standard
2	I2061322A	IC-7019501	6/13/2022 2:38:03PM	Standard
3	I2061322A	IC-7018483	6/13/2022 2:41:58PM	Standard
4	I2061322A	IC-7019492	6/13/2022 2:45:39PM	Standard
5	I2061322A	ICV-7017592	6/13/2022 2:49:20PM	QC
6	I2061322A	ICB-7026764	6/13/2022 2:53:04PM	QC
7	I2061322A	ICVL-7028546	6/13/2022 2:56:58PM	QC
8	I2061322A	ICSA-7017591	6/13/2022 3:00:54PM	QC
9	I2061322A	ICSAB-7019499	6/13/2022 3:04:55PM	QC
10	I2061322A	ICEX1	6/13/2022 3:08:46PM	Unknown
11	I2061322A	ICEX2	6/13/2022 3:12:49PM	Unknown
12	I2061322A	ICEX3	6/13/2022 3:16:48PM	Unknown
13	I2061322A	ICEX4	6/13/2022 3:20:53PM	Unknown
14	I2061322A	ICEX5	6/13/2022 3:24:45PM	Unknown
15	I2061322A	CCV-7018483	6/13/2022 3:28:40PM	QC
16	I2061322A	CCB-7026764	6/13/2022 3:32:21PM	QC
17	I2061322A	CCVL-7028546	6/13/2022 3:53:56PM	QC
18	I2061322A	IDL 1	6/13/2022 3:57:50PM	Unknown
19	I2061322A	IDL 2	6/13/2022 4:01:45PM	Unknown
20	I2061322A	IDL 3	6/13/2022 4:05:40PM	Unknown
21	I2061322A	IDL 4	6/13/2022 4:09:35PM	Unknown
22	I2061322A	IDL 5	6/13/2022 4:13:30PM	Unknown
23	I2061322A	IDL 6	6/13/2022 4:17:25PM	Unknown
24	I2061322A	IDL 7	6/13/2022 4:21:20PM	Unknown
25	I2061322A	MB 480-629284/1-A	6/13/2022 4:25:16PM	Unknown
26	I2061322A	LCS 480-629284/2-A	6/13/2022 4:29:10PM	Unknown
27	I2061322A	CCV-7018483	6/13/2022 4:32:56PM	QC
28	I2061322A	CCB-7026764	6/13/2022 4:36:37PM	QC
29	I2061322A	CCVL-7028546	6/13/2022 4:40:34PM	QC
30	I2061322A	480-198665-A-1-A	6/13/2022 4:44:30PM	Unknown
31	I2061322A	480-198665-A-1-ASD@5	6/13/2022 4:48:22PM	Unknown
32	I2061322A	480-198665-A-1-APDS	6/13/2022 4:52:14PM	Unknown
33	I2061322A	480-198665-A-1-B MS	6/13/2022 4:55:57PM	Unknown
34	I2061322A	480-198665-A-1-C MSD	6/13/2022 4:59:41PM	Unknown
35	I2061322A	480-198665-A-2-A	6/13/2022 5:03:24PM	Unknown
36	I2061322A	480-198665-A-3-A	6/13/2022 5:07:16PM	Unknown
37	I2061322A	480-198665-A-4-A	6/13/2022 5:11:09PM	Unknown
38	I2061322A	480-198665-A-5-A	6/13/2022 5:15:06PM	Unknown
39	I2061322A	CCV-7018483	6/13/2022 5:18:59PM	QC
40	I2061322A	CCB-7026764	6/13/2022 5:22:40PM	QC
41	I2061322A	CCVL-7028546	6/13/2022 5:26:38PM	QC
42	I2061322A	480-198665-A-6-A	6/13/2022 5:30:33PM	Unknown

43	I2061322A	480-198665-A-7-A	6/13/2022	5:34:24PM	Unknown
44	I2061322A	480-198665-A-8-O	6/13/2022	5:38:15PM	Unknown
45	I2061322A	480-198665-A-9-A	6/13/2022	5:42:07PM	Unknown
46	I2061322A	480-198665-A-10-A	6/13/2022	5:45:58PM	Unknown
47	I2061322A	480-198665-A-11-A	6/13/2022	5:49:48PM	Unknown
48	I2061322A	480-198665-A-12-A	6/13/2022	5:53:41PM	Unknown
49	I2061322A	480-198665-A-13-A	6/13/2022	5:57:33PM	Unknown
50	I2061322A	480-198665-A-14-A	6/13/2022	6:01:24PM	Unknown
51	I2061322A	CCV-7018483	6/13/2022	6:05:17PM	QC
52	I2061322A	CCB-7026764	6/13/2022	6:08:58PM	QC
53	I2061322A	CCVL-7028546	6/13/2022	6:12:55PM	QC
54	I2061322A	480-198665-A-15-A	6/13/2022	6:16:50PM	Unknown
55	I2061322A	480-198665-A-16-A	6/13/2022	6:20:41PM	Unknown
56	I2061322A	480-198665-A-17-A	6/13/2022	6:24:33PM	Unknown
57	I2061322A	480-198665-A-18-A	6/13/2022	6:28:23PM	Unknown
58	I2061322A	480-198665-A-19-A	6/13/2022	6:32:14PM	Unknown
59	I2061322A	480-198665-A-20-A	6/13/2022	6:36:05PM	Unknown
60	I2061322A	MB 480-629664/1-A	6/13/2022	6:39:56PM	Unknown
61	I2061322A	LCS 480-629664/2-A	6/13/2022	6:43:51PM	Unknown
62	I2061322A	480-198787-A-1-A	6/13/2022	6:47:35PM	Unknown
63	I2061322A	CCV-7018483	6/13/2022	6:51:34PM	QC
64	I2061322A	CCB-7026764	6/13/2022	6:55:15PM	QC
65	I2061322A	CCVL-7028546	6/13/2022	6:59:12PM	QC
66	I2061322A	480-198787-A-2-A	6/13/2022	7:03:07PM	Unknown
67	I2061322A	480-198787-A-3-A	6/13/2022	7:06:59PM	Unknown
68	I2061322A	480-198787-A-4-A	6/13/2022	7:10:51PM	Unknown
69	I2061322A	480-198787-A-5-A	6/13/2022	7:14:43PM	Unknown
70	I2061322A	480-198787-A-6-A	6/13/2022	7:18:35PM	Unknown
71	I2061322A	480-198787-A-7-A	6/13/2022	7:22:28PM	Unknown
72	I2061322A	480-198813-D-1-A	6/13/2022	7:26:19PM	Unknown
73	I2061322A	480-198813-D-2-A	6/13/2022	7:30:11PM	Unknown
74	I2061322A	480-198813-D-3-A	6/13/2022	7:34:07PM	Unknown
75	I2061322A	CCV-7018483	6/13/2022	7:38:13PM	QC
76	I2061322A	CCB-7026764	6/13/2022	7:41:54PM	QC
77	I2061322A	CCVL-7028546	6/13/2022	7:45:51PM	QC
78	I2061322A	480-198813-D-3-Asd@5	6/13/2022	7:49:46PM	Unknown
79	I2061322A	480-198813-D-3-APDS	6/13/2022	7:53:40PM	Unknown
80	I2061322A	480-198813-D-3-B MS	6/13/2022	7:57:35PM	Unknown
81	I2061322A	480-198813-D-3-C MSD	6/13/2022	8:01:29PM	Unknown
82	I2061322A	480-198813-D-4-A	6/13/2022	8:05:29PM	Unknown
83	I2061322A	480-198813-D-5-A	6/13/2022	8:09:21PM	Unknown
84	I2061322A	480-198813-D-6-A	6/13/2022	8:13:13PM	Unknown
85	I2061322A	480-198813-D-7-A	6/13/2022	8:17:11PM	Unknown
86	I2061322A	480-198813-D-8-A	6/13/2022	8:21:10PM	Unknown
87	I2061322A	CCV-7018483	6/13/2022	8:25:11PM	QC
88	I2061322A	CCB-7026764	6/13/2022	8:28:52PM	QC
89	I2061322A	CCVL-7028546	6/13/2022	8:32:51PM	QC
90	I2061322A	480-198813-D-9-A	6/13/2022	8:36:46PM	Unknown
91	I2061322A	480-198813-R-10-A	6/13/2022	8:40:38PM	Unknown
92	I2061322A	480-198815-D-1-A	6/13/2022	8:44:33PM	Unknown
93	I2061322A	480-198815-D-2-A	6/13/2022	8:48:24PM	Unknown
94	I2061322A	480-198831-A-2-A	6/13/2022	8:52:15PM	Unknown

95	I2061322A	MB 480-629294/1-A	6/13/2022	8:56:21PM	Unknown
96	I2061322A	LCS 480-629294/2-A	6/13/2022	9:00:15PM	Unknown
97	I2061322A	480-198724-A-12-A	6/13/2022	9:03:58PM	Unknown
98	I2061322A	198724-A-12-Asd@5	6/13/2022	9:07:49PM	Unknown
99	I2061322A	CCV-7018483	6/13/2022	9:11:46PM	QC
100	I2061322A	CCB-7026764	6/13/2022	9:15:26PM	QC
101	I2061322A	CCVL-7028546	6/13/2022	9:19:25PM	QC
102	I2061322A	480-198724-A-12-APDS	6/13/2022	9:23:20PM	Unknown
103	I2061322A	480-198724-A-12-B MS	6/13/2022	9:27:03PM	Unknown
104	I2061322A	198724-A-12-C MSD	6/13/2022	9:30:45PM	Unknown
105	I2061322A	480-198724-A-13-O	6/13/2022	9:34:28PM	Unknown
106	I2061322A	480-198724-A-14-A	6/13/2022	9:38:21PM	Unknown
107	I2061322A	480-198724-A-15-A	6/13/2022	9:42:12PM	Unknown
108	I2061322A	480-198724-A-16-A	6/13/2022	9:46:04PM	Unknown
109	I2061322A	480-198724-A-17-A	6/13/2022	9:49:55PM	Unknown
110	I2061322A	480-198724-A-18-A	6/13/2022	9:53:52PM	Unknown
111	I2061322A	CCV-7018483	6/13/2022	9:57:47PM	QC
112	I2061322A	CCB-7026764	6/13/2022	10:01:27PM	QC
113	I2061322A	CCVL-7028546	6/13/2022	10:05:25PM	QC
114	I2061322A	480-198724-A-19-A	6/13/2022	10:09:20PM	Unknown
115	I2061322A	480-198724-A-20-A	6/13/2022	10:13:13PM	Unknown
116	I2061322A	480-198724-A-21-A	6/13/2022	10:17:10PM	Unknown
117	I2061322A	480-198724-A-22-A	6/13/2022	10:21:02PM	Unknown
118	I2061322A	480-198724-A-23-A	6/13/2022	10:24:53PM	Unknown
119	I2061322A	480-198724-A-24-O	6/13/2022	10:28:45PM	Unknown
120	I2061322A	480-198724-A-25-A	6/13/2022	10:32:37PM	Unknown
121	I2061322A	480-198724-A-26-A	6/13/2022	10:36:28PM	Unknown
122	I2061322A	480-198724-A-27-A	6/13/2022	10:40:19PM	Unknown
123	I2061322A	CCV-7018483	6/13/2022	10:44:18PM	QC
124	I2061322A	CCB-7026764	6/13/2022	10:47:59PM	QC
125	I2061322A	CCVL-7028546	6/13/2022	10:51:57PM	QC
126	I2061322A	480-198724-A-28-A	6/13/2022	10:55:52PM	Unknown
127	I2061322A	480-198724-A-29-A	6/13/2022	10:59:42PM	Unknown
128	I2061322A	480-198724-A-30-A	6/13/2022	11:03:34PM	Unknown
129	I2061322A	480-198724-A-31-A	6/13/2022	11:07:26PM	Unknown
130	I2061322A	MB 480-629663/1-A	6/13/2022	11:11:18PM	Unknown
131	I2061322A	LCS 480-629663/2-A	6/13/2022	11:15:13PM	Unknown
132	I2061322A	480-198840-C-1-B	6/13/2022	11:18:57PM	Unknown
133	I2061322A	480-198840-C-2-D	6/13/2022	11:22:53PM	Unknown
134	I2061322A	480-198840-C-3-B	6/13/2022	11:26:49PM	Unknown
135	I2061322A	CCV-7018483	6/13/2022	11:30:43PM	QC
136	I2061322A	CCB-7026764	6/13/2022	11:34:24PM	QC
137	I2061322A	CCVL-7028546	6/13/2022	11:38:21PM	QC
138	I2061322A	480-198840-C-3-Bsd@5	6/13/2022	11:42:17PM	Unknown
139	I2061322A	480-198840-C-3-BPDS	6/13/2022	11:46:12PM	Unknown
140	I2061322A	480-198840-C-3-C MS	6/13/2022	11:49:54PM	Unknown
141	I2061322A	480-198840-C-3-D MSD	6/13/2022	11:53:39PM	Unknown
142	I2061322A	480-198840-C-4-B	6/13/2022	11:57:22PM	Unknown
143	I2061322A	480-198840-C-5-B	6/14/2022	12:01:14AM	Unknown
144	I2061322A	480-198840-C-6-B	6/14/2022	12:05:10AM	Unknown
145	I2061322A	480-198840-C-7-B	6/14/2022	12:09:04AM	Unknown
146	I2061322A	480-198840-C-8-B	6/14/2022	12:12:55AM	Unknown

147	I2061322A	CCV-7018483	6/14/2022	12:16:48AM	QC
148	I2061322A	CCB-7026764	6/14/2022	12:20:29AM	QC
149	I2061322A	CCVL-7028546	6/14/2022	12:24:24AM	QC
150	I2061322A	480-198840-C-9-B	6/14/2022	12:28:19AM	Unknown
151	I2061322A	480-198840-C-10-B	6/14/2022	12:32:11AM	Unknown
152	I2061322A	480-198843-D-1-B	6/14/2022	12:36:07AM	Unknown
153	I2061322A	480-198843-D-2-B	6/14/2022	12:39:58AM	Unknown
154	I2061322A	480-198843-D-3-B	6/14/2022	12:43:49AM	Unknown
155	I2061322A	480-198843-D-4-B	6/14/2022	12:47:41AM	Unknown
156	I2061322A	480-198843-D-5-B	6/14/2022	12:51:33AM	Unknown
157	I2061322A	480-198843-D-6-B	6/14/2022	12:55:24AM	Unknown
158	I2061322A	MB 480-629606/1-A	6/14/2022	12:59:16AM	Unknown
159	I2061322A	CCV-7018483	6/14/2022	1:03:14AM	QC
160	I2061322A	CCB-7026764	6/14/2022	1:06:55AM	QC
161	I2061322A	CCVL-7028546	6/14/2022	1:10:53AM	QC
162	I2061322A	LCS 480-629606/2-O	6/14/2022	1:14:48AM	Unknown
163	I2061322A	480-198814-A-2-A	6/14/2022	1:18:32AM	Unknown
164	I2061322A	480-198814-A-2-Asd@5	6/14/2022	1:22:28AM	Unknown
165	I2061322A	480-198814-A-2-APDS	6/14/2022	1:26:23AM	Unknown
166	I2061322A	480-198814-A-2-B MS	6/14/2022	1:30:05AM	Unknown
167	I2061322A	480-198814-A-2-C MSD	6/14/2022	1:33:48AM	Unknown
168	I2061322A	480-198814-A-3-A	6/14/2022	1:37:31AM	Unknown
169	I2061322A	480-198814-A-4-A	6/14/2022	1:41:23AM	Unknown
170	I2061322A	480-198814-A-5-A	6/14/2022	1:45:16AM	Unknown
171	I2061322A	CCV-7018483	6/14/2022	1:49:12AM	QC
172	I2061322A	CCB-7026764	6/14/2022	1:52:53AM	QC
173	I2061322A	CCVL-7028546	6/14/2022	1:56:51AM	QC
174	I2061322A	480-198814-A-6-A	6/14/2022	2:00:46AM	Unknown
175	I2061322A	480-198814-A-7-A	6/14/2022	2:04:39AM	Unknown
176	I2061322A	480-198814-A-8-A	6/14/2022	2:08:33AM	Unknown
177	I2061322A	480-198814-A-9-A	6/14/2022	2:12:30AM	Unknown
178	I2061322A	480-198814-A-10-A	6/14/2022	2:16:21AM	Unknown
179	I2061322A	480-198814-A-11-A	6/14/2022	2:20:12AM	Unknown
180	I2061322A	480-198814-A-12-A	6/14/2022	2:24:02AM	Unknown
181	I2061322A	480-198814-A-13-A	6/14/2022	2:27:53AM	Unknown
182	I2061322A	480-198814-A-14-A	6/14/2022	2:31:45AM	Unknown
183	I2061322A	CCV-7018483	6/14/2022	2:35:40AM	QC
184	I2061322A	CCB-7026764	6/14/2022	2:39:20AM	QC
185	I2061322A	CCVL-7028546	6/14/2022	2:43:18AM	QC
186	I2061322A	480-198814-A-15-A	6/14/2022	2:47:13AM	Unknown
187	I2061322A	480-198816-I-1-A	6/14/2022	2:51:06AM	Unknown
188	I2061322A	480-198816-I-2-A	6/14/2022	2:55:02AM	Unknown
189	I2061322A	480-198816-I-3-A	6/14/2022	2:58:58AM	Unknown
190	I2061322A	480-198816-I-4-A	6/14/2022	3:02:48AM	Unknown
191	I2061322A	480-198816-I-5-A	6/14/2022	3:06:39AM	Unknown
192	I2061322A	CCVL-7028546	6/14/2022	3:10:30AM	QC
193	I2061322A	CCV-7018483	6/14/2022	3:14:26AM	QC
194	I2061322A	CCB-7026764	6/14/2022	3:18:07AM	QC

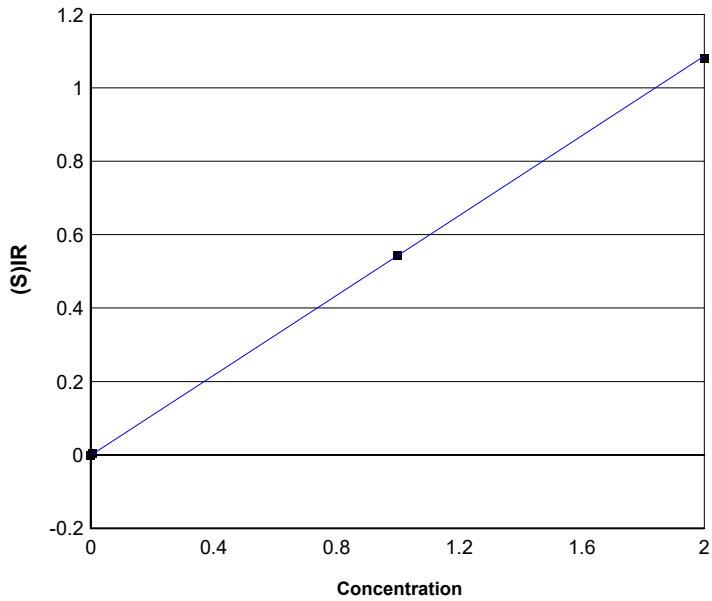
I2061322A

Author: BLH

Published: 6/14/2022 9:41:35AM

Instrument Name: 20094602a Serial Number: 20094602

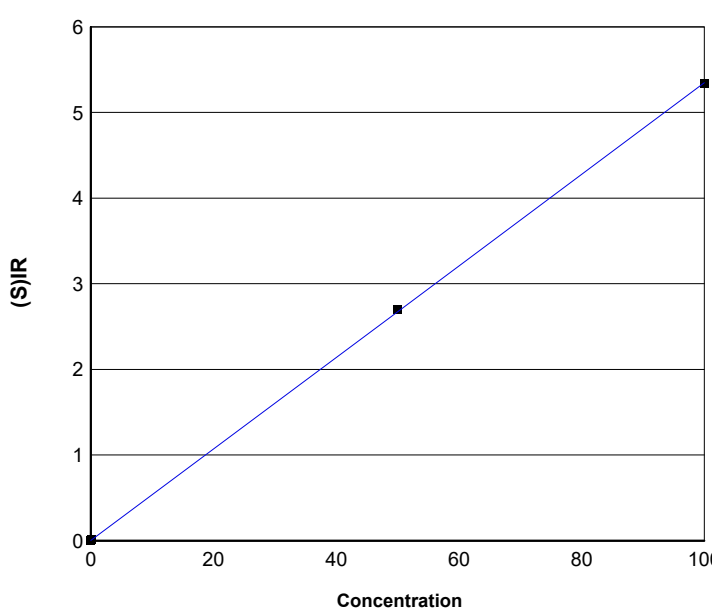
Method Name: ICAP2 New stds DEC2019 (987)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00064775
A1 (Gain):	0.54367
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

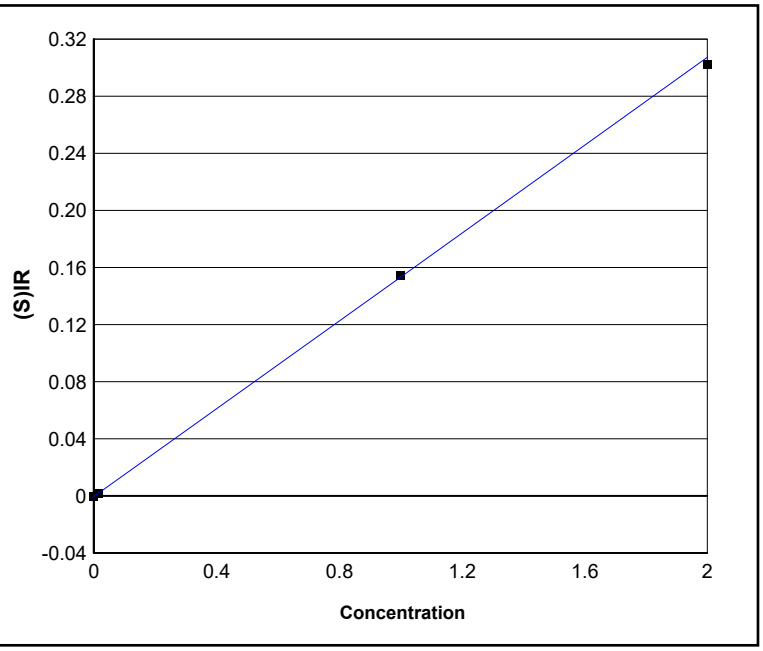
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000003134	-0.0000003134	0.00000	-0.00064792	0.000097662	1
IC-7019501	0.0060000	0.0063011	0.00030113	5.0188	0.0027780	0.00036922	1
IC-7018483	1.0000	1.0044	0.0043863	0.43863	0.54323	0.0029445	1
IC-7019492	2.0000	1.9953	-0.0046887	-0.23443	1.0798	0.0050932	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0037780
A1 (Gain):	0.053430
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

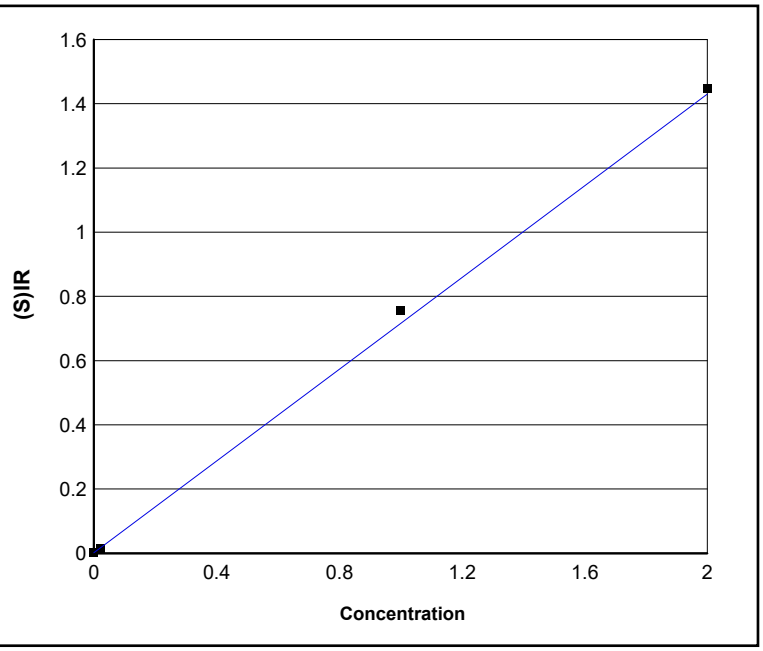
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000013383	0.0000013383	0.00000	0.0037781	0.00054514	1
IC-7019501	0.20000	0.19796	-0.0020374	-1.0187	0.014384	0.00048632	1
IC-7018483	50.000	50.348	0.34752	0.69504	2.6995	0.013188	1
IC-7019492	100.00	99.655	-0.34548	-0.34548	5.3397	0.021783	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99987
A0 (Offset):	-0.00058633
A1 (Gain):	0.15394
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

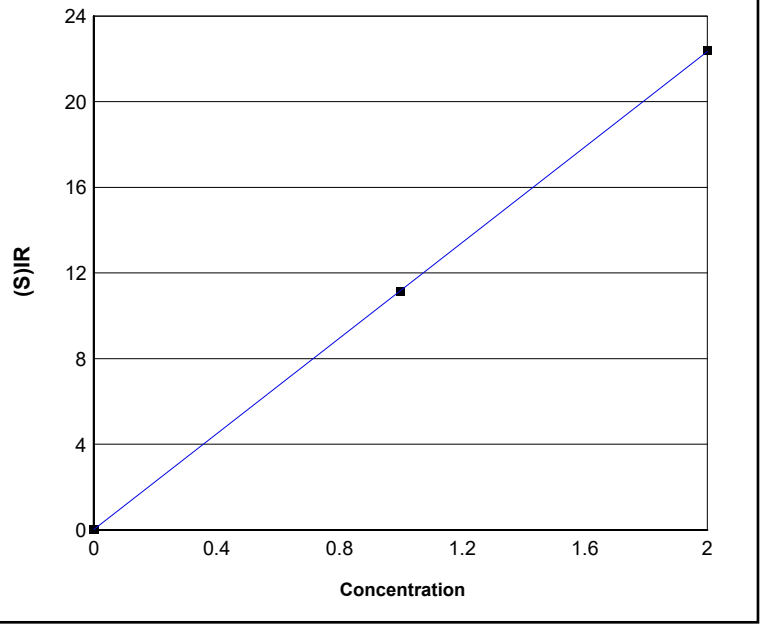
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000022962	0.0000022962	0.00000	-0.00058597	0.00039491	1
IC-7019501	0.015000	0.012561	-0.0024395	-16.263	0.0013421	0.00017742	1
IC-7018483	1.0000	1.0166	0.016646	1.6646	0.15453	0.00067839	1
IC-7019492	2.0000	1.9858	-0.014189	-0.70947	0.30233	0.000097095	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99977
A0 (Offset):	0.0017136
A1 (Gain):	0.71416
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

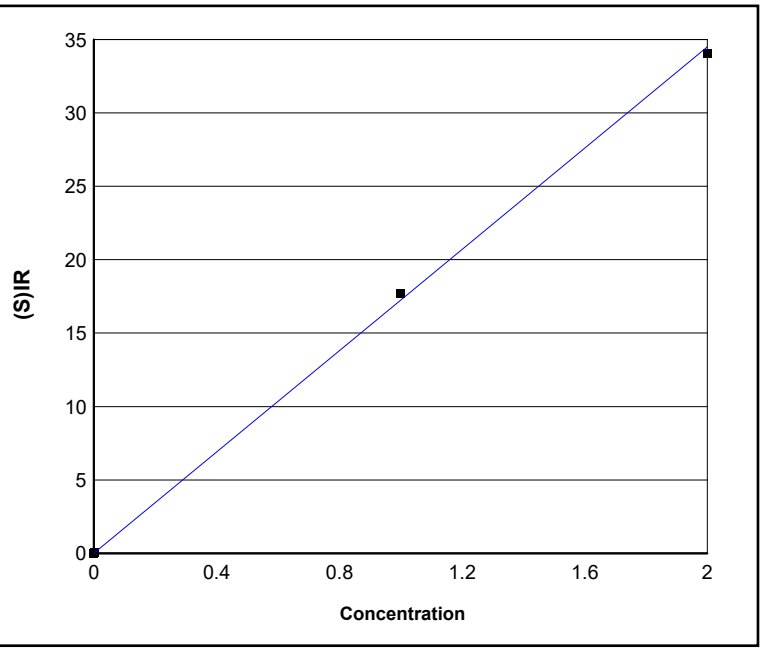
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000008722	0.0000008722	0.00000	0.0017142	0.00014011	1
IC-7019501	0.020000	0.018809	-0.0011907	-5.9537	0.015345	0.000074089	1
IC-7018483	1.0000	1.0307	0.030680	3.0680	0.75763	0.0030545	1
IC-7019492	2.0000	1.9705	-0.029505	-1.4753	1.4487	0.00074383	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.013322
A1 (Gain):	11.167
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

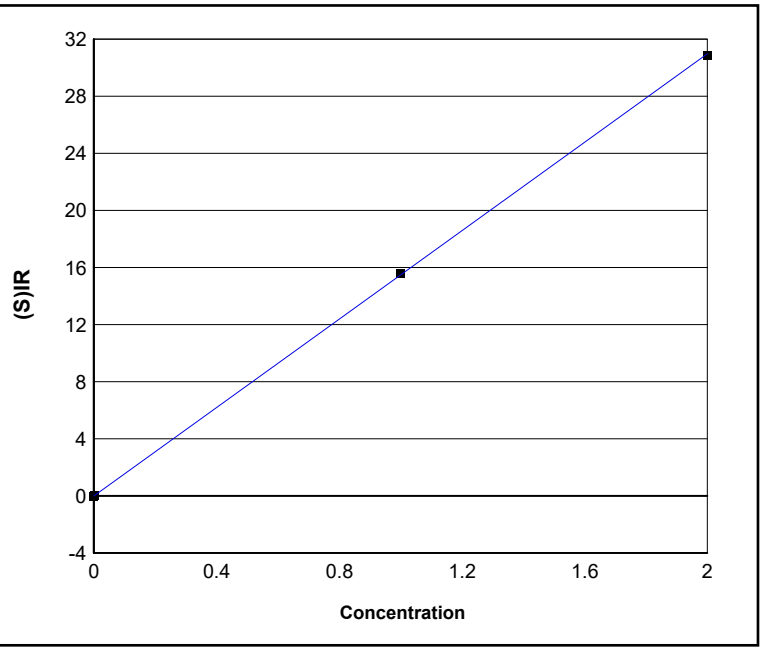
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000001269	0.0000001269	0.00000	0.013323	0.00093374	1
IC-7019501	0.0020000	0.0018774	-0.00012258	-6.1288	0.034286	0.0051902	1
IC-7018483	1.0000	0.99556	-0.0044398	-0.44398	11.130	0.091313	1
IC-7019492	2.0000	2.0046	0.0045624	0.22812	22.397	0.067150	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99984
A0 (Offset):	0.0049236
A1 (Gain):	17.248
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

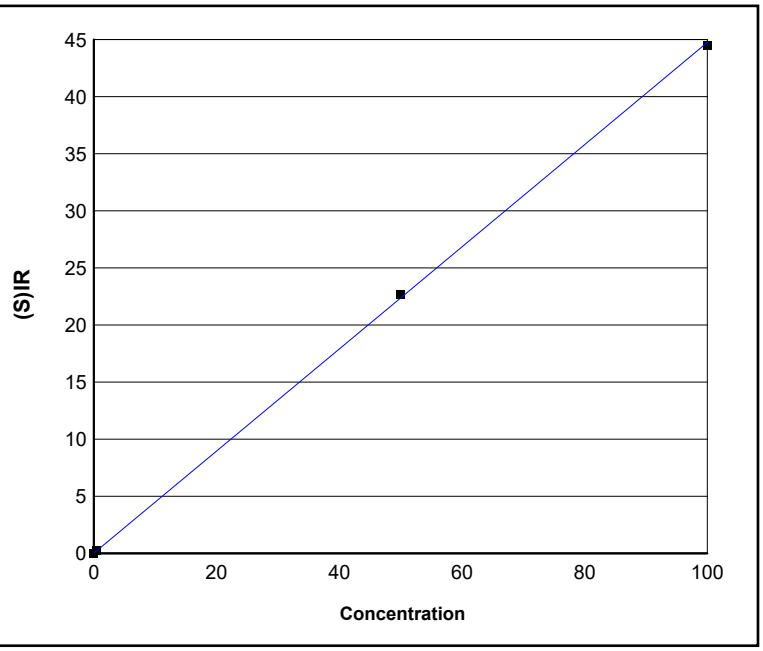
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000001392	-0.0000001392	0.00000	0.0049212	0.00019492	1
IC-7019501	0.0020000	0.0021142	0.00011421	5.7106	0.041390	0.00010126	1
IC-7018483	1.0000	1.0252	0.025150	2.5150	17.687	0.096161	1
IC-7019492	2.0000	1.9747	-0.025264	-1.2632	34.065	0.067874	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.011765
A1 (Gain):	15.491
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

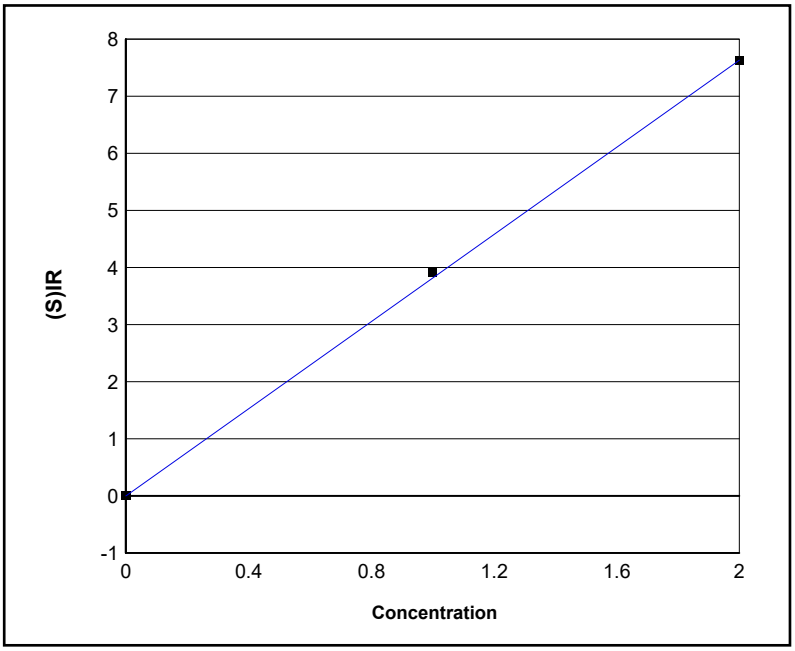
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000145	0.0000000145	0.00000	-0.011764	0.00032580	1
IC-7019501	0.0020000	0.0019793	-0.000020707	-1.0353	0.018897	0.00034737	1
IC-7018483	1.0000	1.0062	0.0061944	0.61944	15.575	0.076536	1
IC-7019492	2.0000	1.9938	-0.0061737	-0.30869	30.875	0.093525	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.012663
A1 (Gain):	0.44738
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

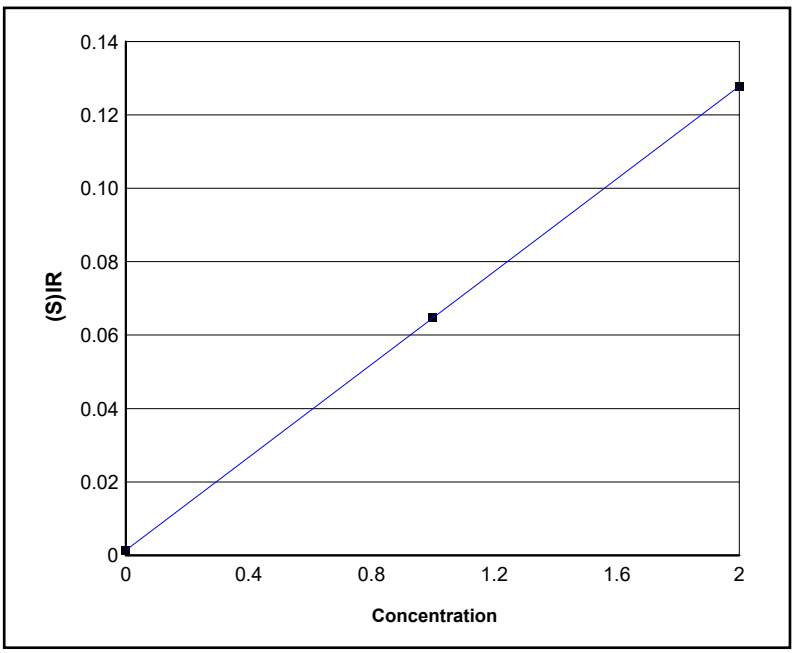
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000017128	0.0000017128	0.00000	0.012664	0.0020284	1
IC-7019501	0.50000	0.49477	-0.0052341	-1.0468	0.23401	0.00059959	1
IC-7018483	50.000	50.699	0.69903	1.3981	22.694	0.076363	1
IC-7019492	100.00	99.306	-0.69380	-0.69380	44.440	0.17858	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	-0.00045312
A1 (Gain):	3.8167
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

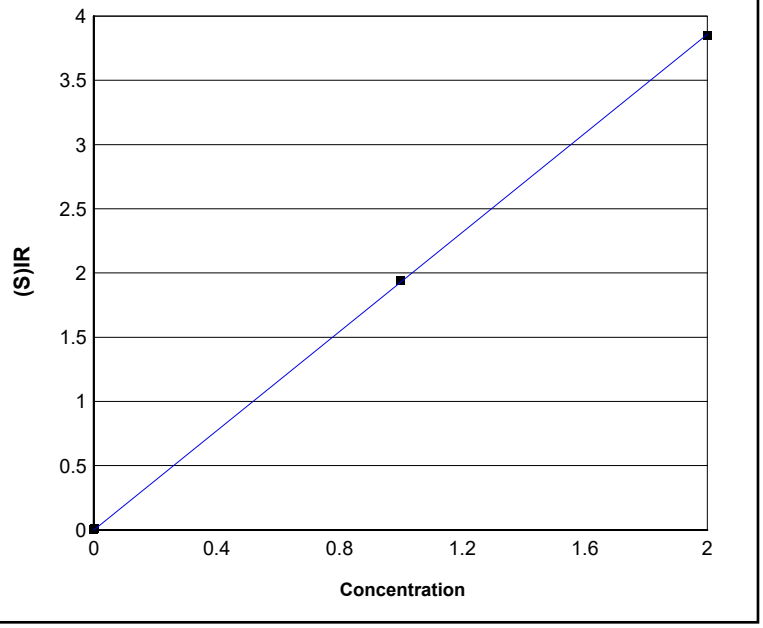
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000635	-0.0000000635	0.00000	-0.00045336	0.00030116	1
IC-7019501	0.0020000	0.0020456	0.000045625	2.2813	0.0077246	0.000077869	1
IC-7018483	1.0000	1.0179	0.017907	1.7907	3.9101	0.0039013	1
IC-7019492	2.0000	1.9820	-0.017954	-0.89771	7.6155	0.010222	1



Element Name:	Ce
Element Wavelength:	Ce 404.076 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	1.0000
A0 (Offset):	0.001379
A1 (Gain):	0.06324
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

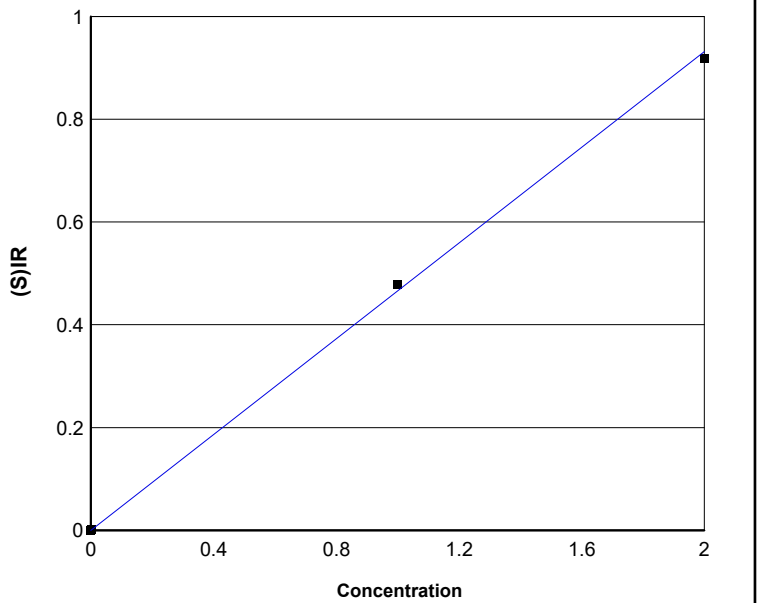
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000	-0.000001644	-0.000001644	0.0000	0.001378	0.0009351	1
IC-7019492	2.000	1.997	-0.003288	-0.1644	0.1276	0.003275	1
IC-7018483	1.000	1.003	0.003288	0.3288	0.06482	0.001670	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00012365
A1 (Gain):	1.9290
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

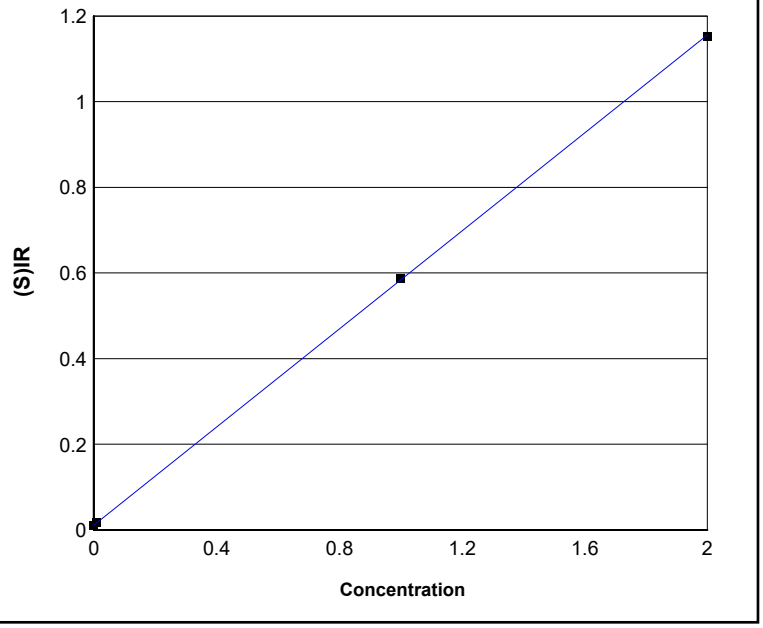
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000867	0.0000000867	0.00000	0.00012382	0.0000078566	1
IC-7019501	0.0040000	0.0039001	-0.000099950	-2.4987	0.0076458	0.000023988	1
IC-7018483	1.0000	1.0065	0.0065323	0.65323	1.9433	0.0011351	1
IC-7019492	2.0000	1.9936	-0.0064325	-0.32162	3.8488	0.0029922	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99979
A0 (Offset):	0.00018616
A1 (Gain):	0.46587
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

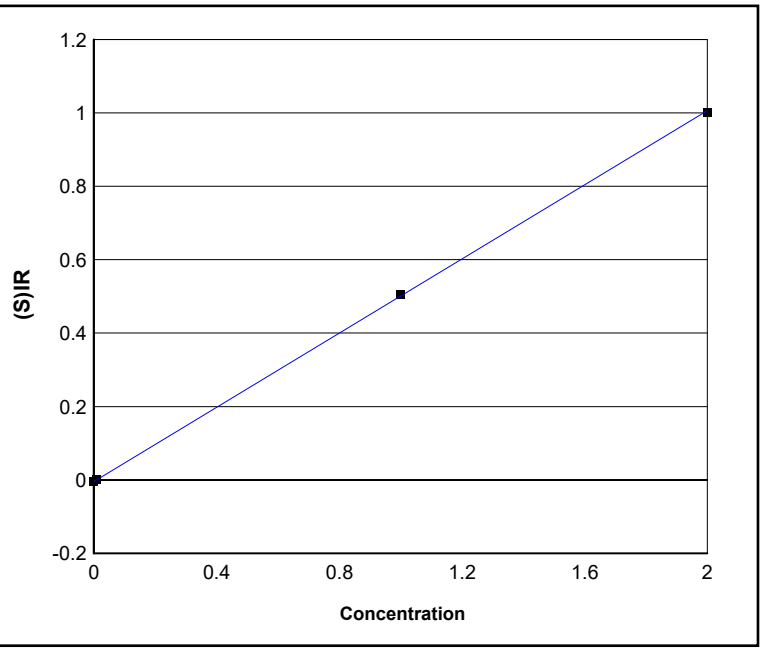
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000005649	0.0000005649	0.00000	0.00018642	0.000059391	1
IC-7019501	0.0040000	0.0033776	-0.00062242	-15.560	0.0017599	0.00014720	1
IC-7018483	1.0000	1.0282	0.028159	2.8159	0.47915	0.0023532	1
IC-7019492	2.0000	1.9725	-0.027536	-1.3768	0.91904	0.0065723	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.011114
A1 (Gain):	0.57243
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

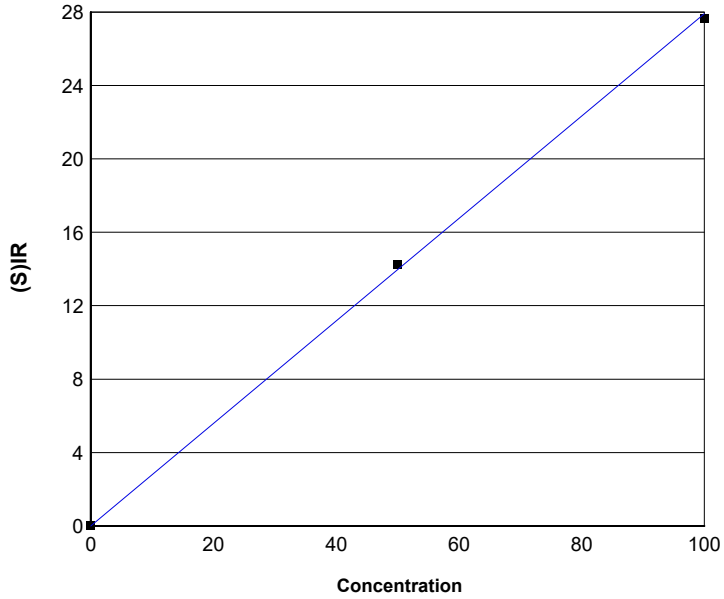
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000002606	0.0000002606	0.00000	0.011115	0.000064704	1
IC-7019501	0.010000	0.0097025	-0.00029749	-2.9749	0.016668	0.00011205	1
IC-7018483	1.0000	1.0071	0.0070729	0.70729	0.58759	0.0017861	1
IC-7019492	2.0000	1.9932	-0.0067754	-0.33877	1.1521	0.0058202	1



Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	-0.0045114
A1 (Gain):	0.50533
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

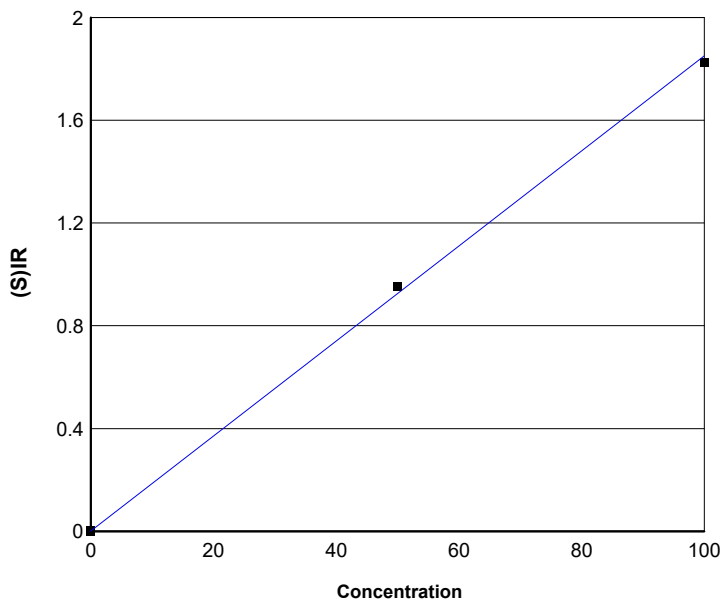
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000019790	-0.0000019790	0.00000	-0.0045124	0.00022275	1
IC-7019501	0.010000	0.011952	0.0019524	19.524	0.0015304	0.000074951	1
IC-7018483	1.0000	1.0073	0.0072663	0.72663	0.50427	0.0016242	1
IC-7019492	2.0000	1.9908	-0.0092203	-0.46101	1.0011	0.0048008	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99989
A0 (Offset):	0.0050159
A1 (Gain):	0.27911
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

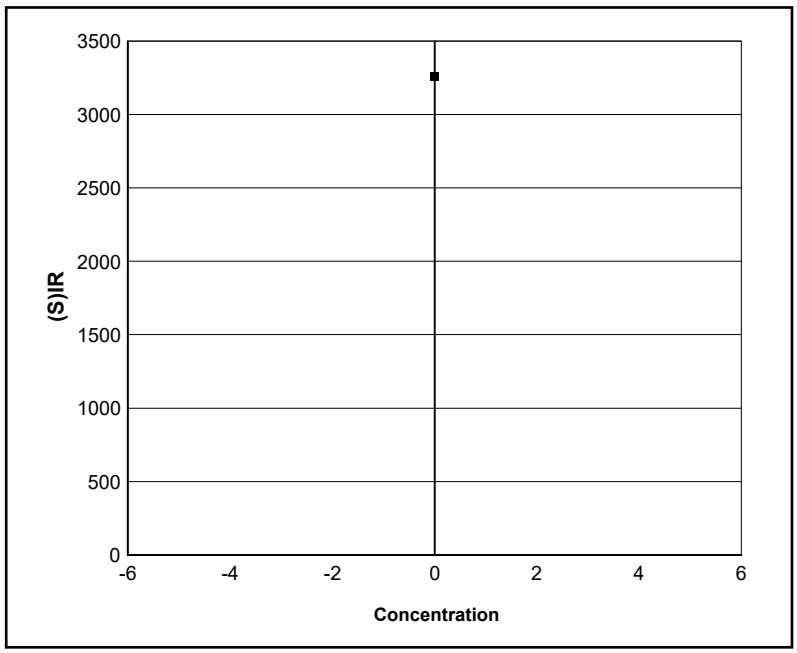
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.000012186	0.000012186	0.00000	0.0050194	0.00057394	1
IC-7019501	0.050000	0.037299	-0.012701	-25.402	0.015427	0.00033086	1
IC-7018483	50.025	51.045	1.0195	2.0380	14.252	0.071251	1
IC-7019492	100.00	98.993	-1.0068	-1.0068	27.635	0.10323	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99980
A0 (Offset):	0.00075287
A1 (Gain):	0.018501
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

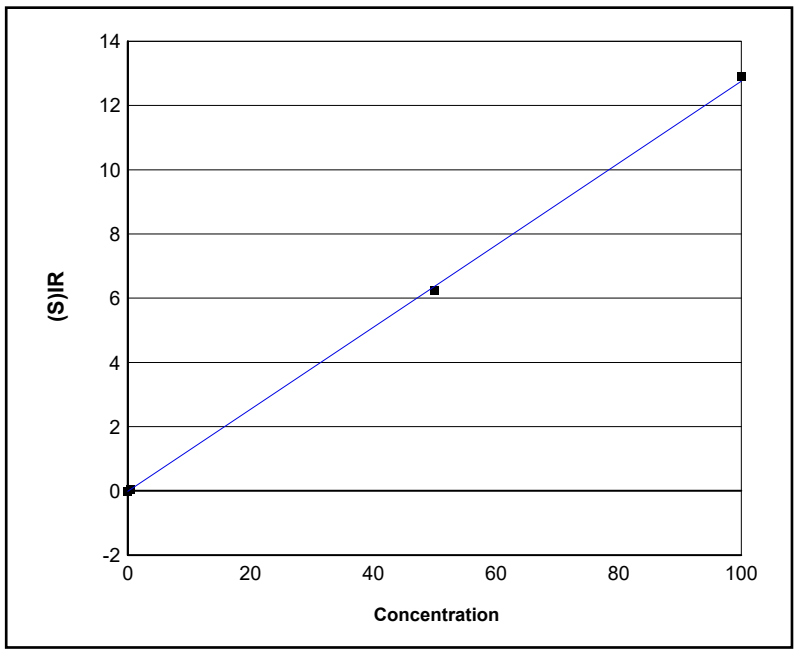
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.000016952	0.000016952	0.00000	0.00075318	0.0018621	1
IC-7019501	0.050000	0.032373	-0.017627	-35.254	0.0013518	0.00043486	1
IC-7018483	50.025	51.358	1.3334	2.6656	0.95091	0.0053330	1
IC-7019492	100.00	98.684	-1.3158	-1.3158	1.8265	0.014181	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:37:59PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

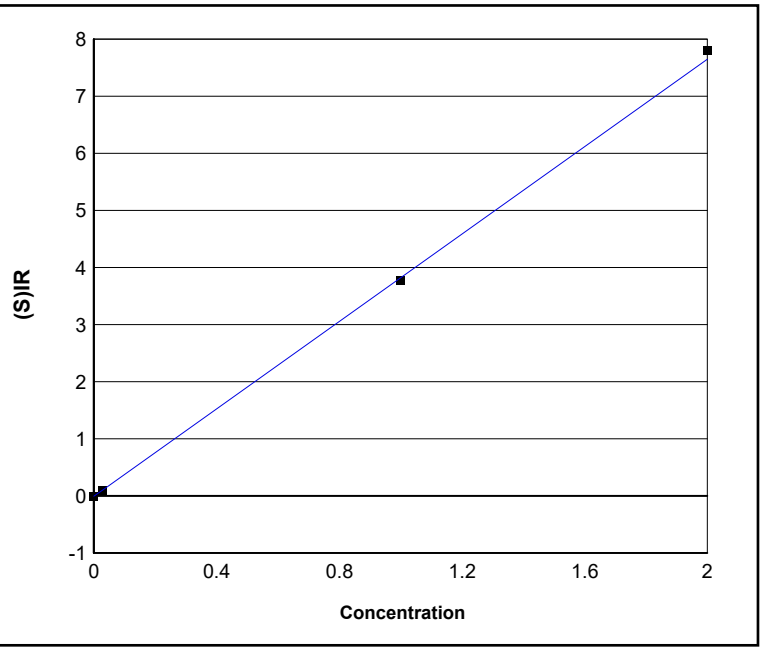
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000			0.0000	3,261	4.607	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99986
A0 (Offset):	-0.013043
A1 (Gain):	0.12775
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

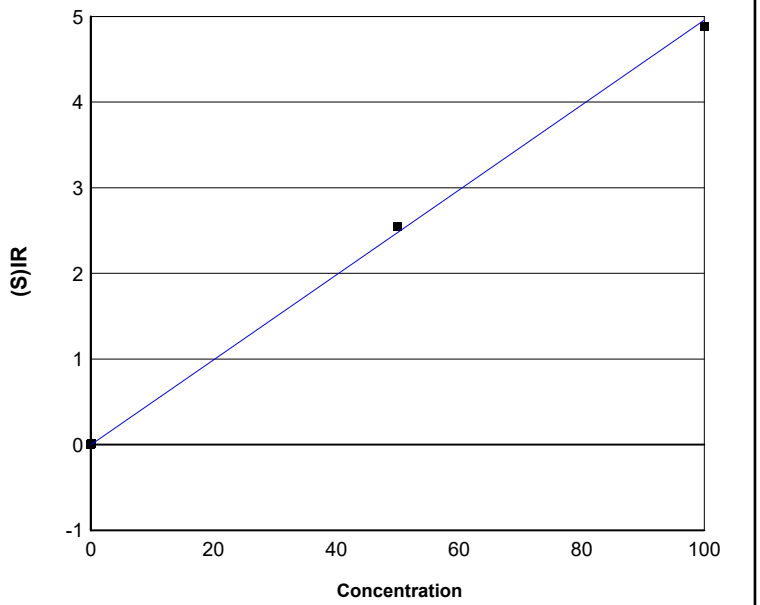
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.000056140	0.000056140	0.00000	-0.013036	0.00015038	1
IC-7019501	0.50000	0.44904	-0.050965	-10.193	0.044321	0.00050536	1
IC-7018483	50.000	48.914	-1.0859	-2.1719	6.2357	0.027659	1
IC-7019492	100.00	101.14	1.1369	1.1369	12.907	0.053887	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99984
A0 (Offset):	-0.0076954
A1 (Gain):	3.8289
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

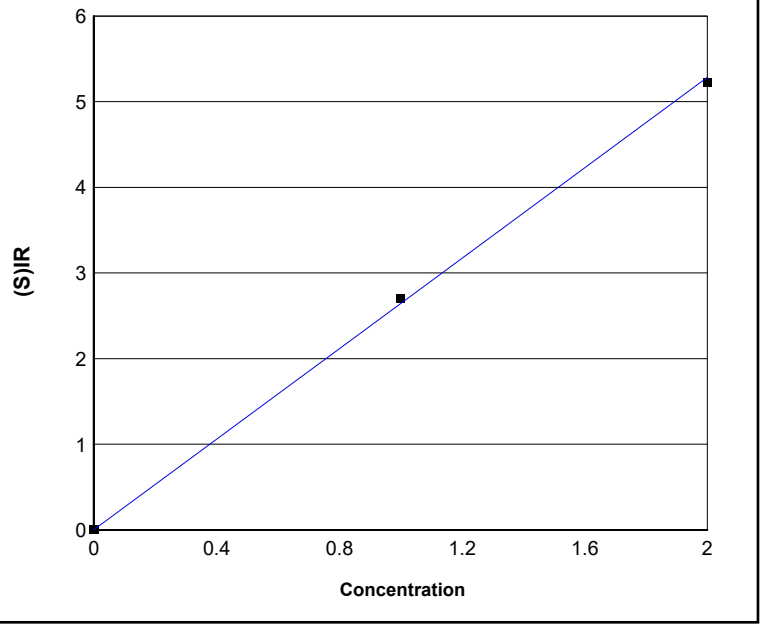
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000028696	0.0000028696	0.00000	-0.0076844	0.0081217	1
IC-7019501	0.030000	0.027414	-0.0025858	-8.6192	0.097530	0.0076044	1
IC-7018483	1.0000	0.97850	-0.021500	-2.1500	3.7649	0.022788	1
IC-7019492	2.0000	2.0241	0.024074	1.2037	7.7943	0.020586	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99980
A0 (Offset):	-0.000034286
A1 (Gain):	0.049574
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

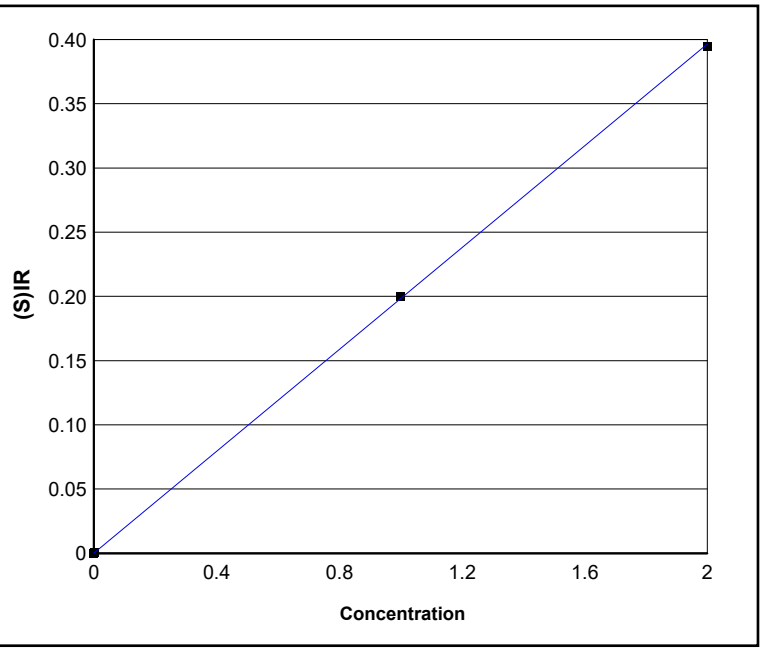
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000015054	0.0000015054	0.00000	-0.000034211	0.00011683	1
IC-7019501	0.20000	0.19564	-0.0043578	-2.1789	0.0096640	0.00014506	1
IC-7018483	50.000	51.422	1.4219	2.8437	2.5490	0.011232	1
IC-7019492	100.00	98.583	-1.4175	-1.4175	4.8868	0.022399	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99988
A0 (Offset):	0.0015875
A1 (Gain):	2.6410
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

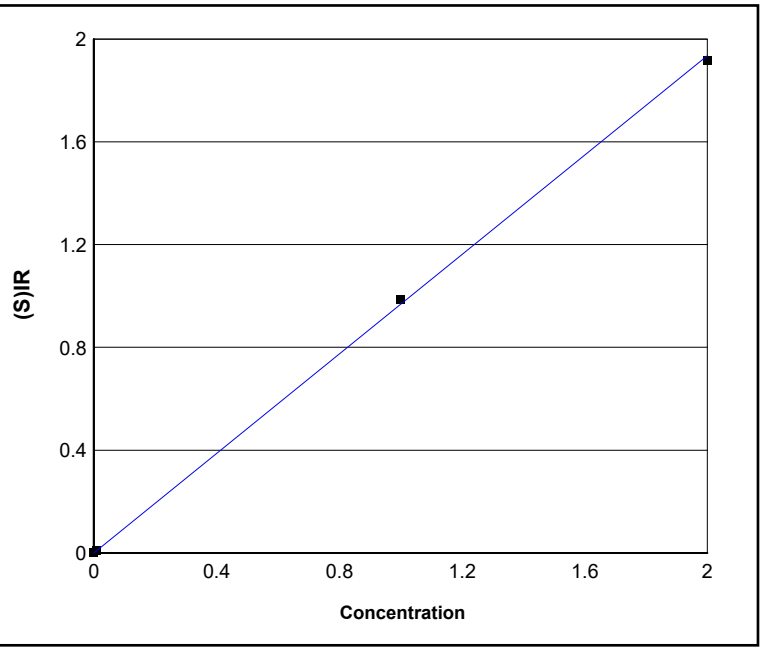
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000002110	-0.0000002110	0.00000	0.0015869	0.000021375	1
IC-7019501	0.0030000	0.0031783	0.00017832	5.9440	0.0099842	0.00024972	1
IC-7018483	1.0000	1.0220	0.021953	2.1953	2.7014	0.015729	1
IC-7019492	2.0000	1.9779	-0.022131	-1.1065	5.2268	0.022888	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.00017911
A1 (Gain):	0.19814
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

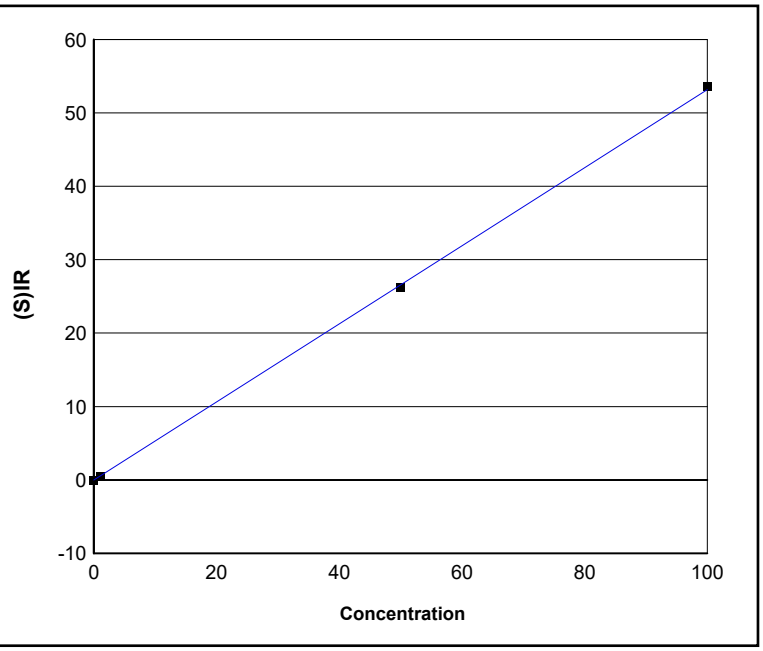
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000004968	-0.0000004968	0.00000	0.00017901	0.000062370	1
IC-7019501	0.0030000	0.0034831	0.00048315	16.105	0.00086946	0.000022425	1
IC-7018483	1.0000	1.0096	0.0095699	0.95699	0.20027	0.00028875	1
IC-7019492	2.0000	1.9899	-0.010053	-0.50265	0.39459	0.0018503	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	0.000094731
A1 (Gain):	0.96792
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

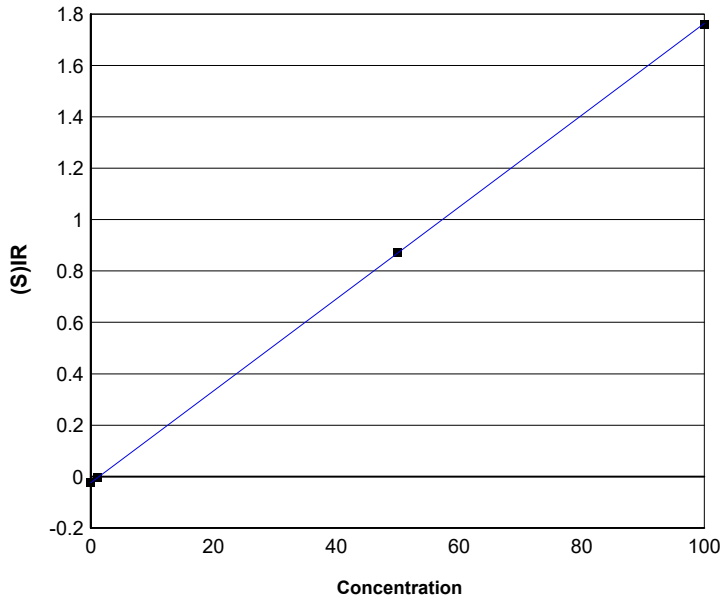
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000103	-0.0000000103	0.00000	0.000094721	0.000038062	1
IC-7019501	0.010000	0.0099209	-0.000079073	-0.79073	0.0096974	0.000025417	1
IC-7018483	1.0000	1.0178	0.017788	1.7788	0.98523	0.0038337	1
IC-7019492	2.0000	1.9823	-0.017709	-0.88545	1.9188	0.0023883	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	-0.011988
A1 (Gain):	0.53200
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

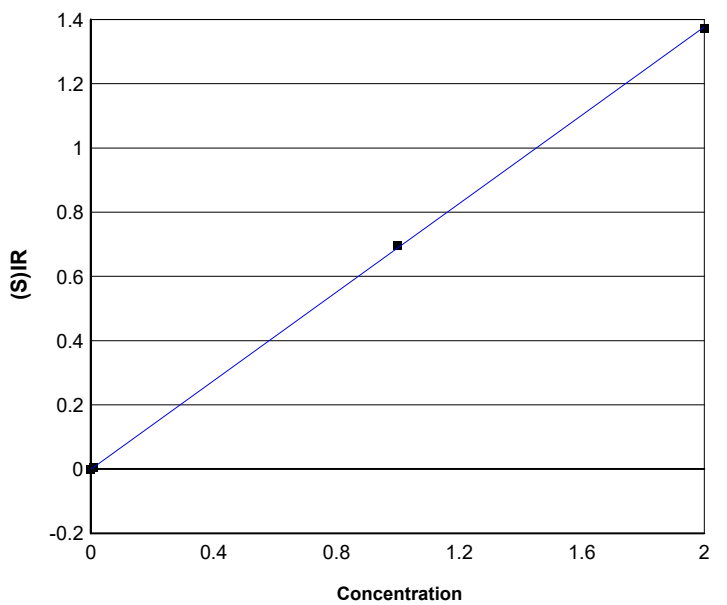
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.00012253	0.00012253	0.00000	-0.011922	0.00056874	1
IC-7019501	1.0000	0.88262	-0.11738	-11.738	0.45756	0.0088123	1
IC-7018483	50.000	49.368	-0.63182	-1.2636	26.252	0.15206	1
IC-7019492	100.00	100.75	0.74921	0.74921	53.586	0.20514	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99990
A0 (Offset):	-0.024418
A1 (Gain):	0.017889
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

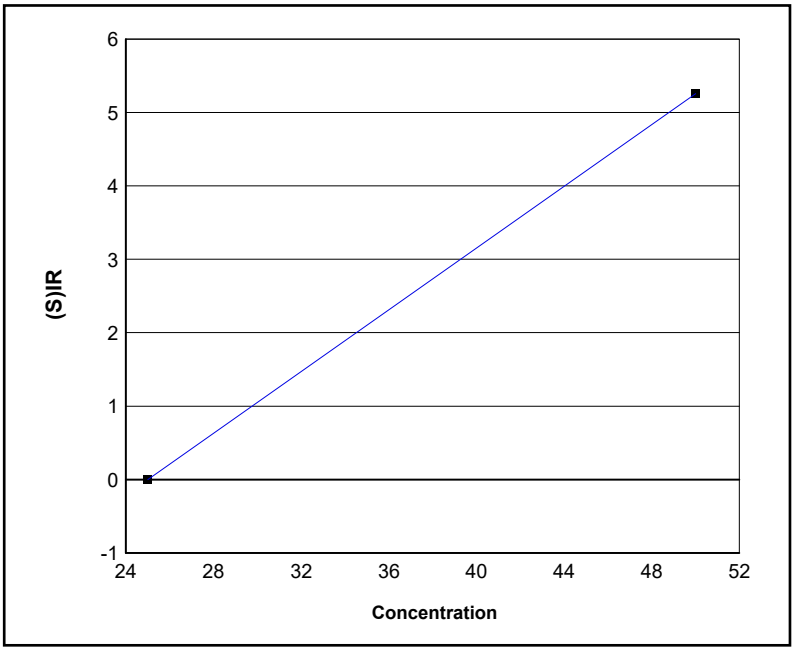
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	-0.00017037	-0.00017037	0.00000	-0.024421	0.0052380	1
IC-7019501	1.0000	1.1721	0.17207	17.207	-0.0034501	0.0040056	1
IC-7018483	50.000	50.002	0.0023040	0.0046081	0.87009	0.0046866	1
IC-7019492	100.00	99.826	-0.17437	-0.17437	1.7614	0.0032034	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00035028
A1 (Gain):	0.68868
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

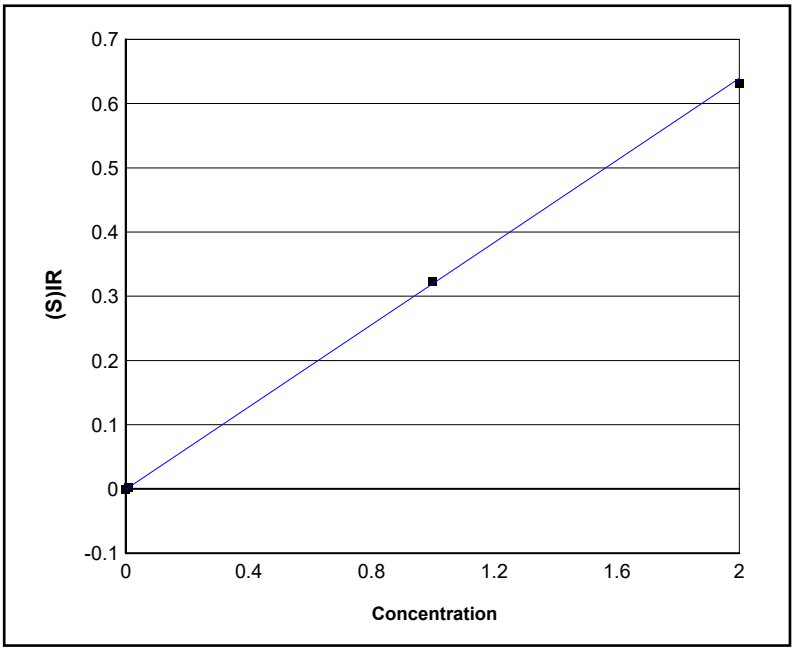
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000004624	0.0000004624	0.00000	-0.00034996	0.00015017	1
IC-7019501	0.010000	0.0094922	-0.00050784	-5.0784	0.0061875	0.000065515	1
IC-7018483	1.0000	1.0086	0.0085780	0.85780	0.69493	0.00018435	1
IC-7019492	2.0000	1.9919	-0.0080706	-0.40353	1.3728	0.0022313	1



Element Name:	P
Element Wavelength:	P 213.618 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-5.261
A1 (Gain):	0.2103
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

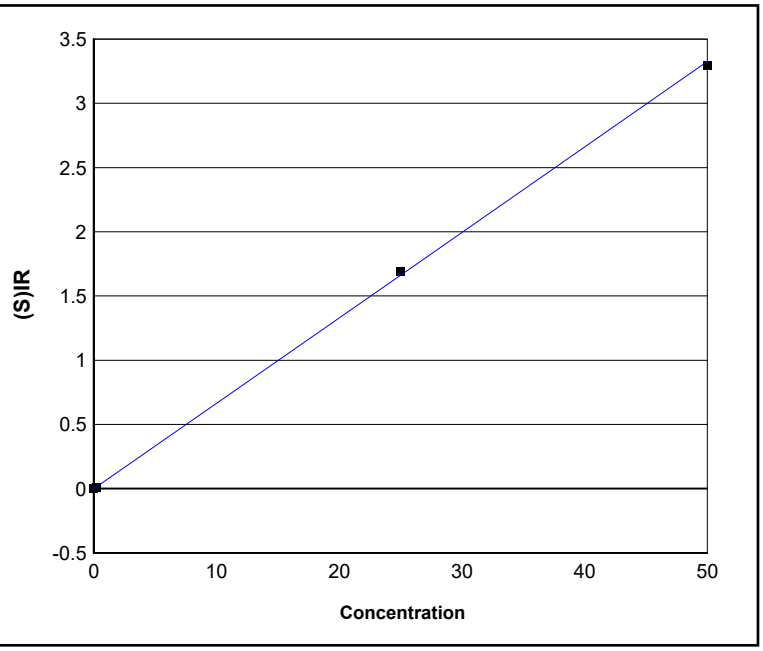
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-7019501	25.00	25.00	0.0000000000	0.0000000000	-0.002822	0.0001151	1
IC-7019492	50.00	50.00	0.0000000000	0.0000000000	5.256	0.01261	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	-0.00028206
A1 (Gain):	0.31972
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

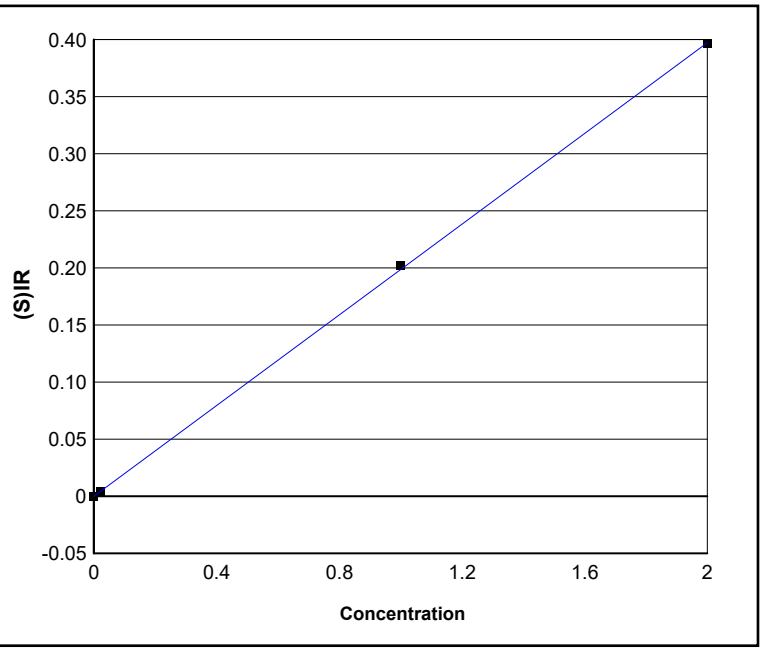
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000007192	0.0000007192	0.00000	-0.00028183	0.000038851	1
IC-7019501	0.010000	0.0092045	-0.00079551	-7.9551	0.0026536	0.00024156	1
IC-7018483	1.0000	1.0145	0.014464	1.4464	0.32261	0.0000095348	1
IC-7019492	2.0000	1.9863	-0.013666	-0.68332	0.63188	0.0010669	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	-0.00054816
A1 (Gain):	0.066529
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

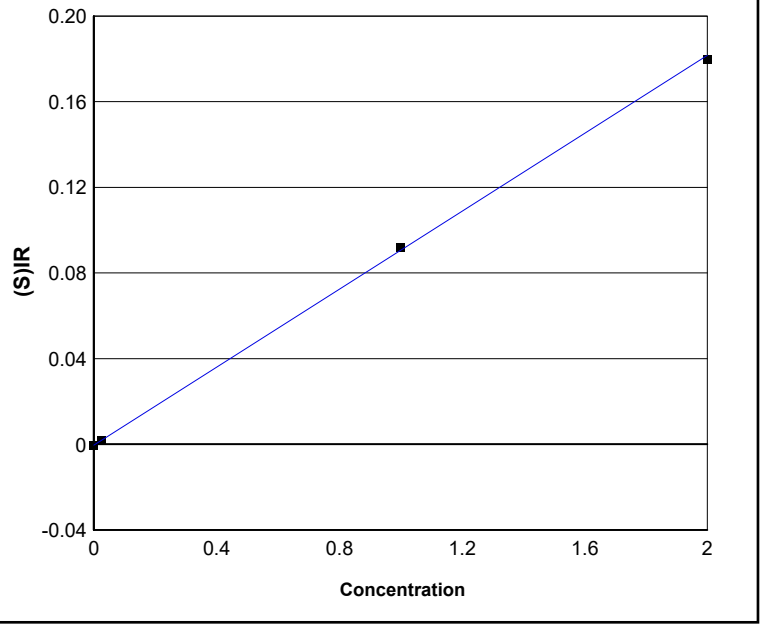
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000056298	0.0000056298	0.00000	-0.00054779	0.00021046	1
IC-7019501	0.20000	0.19242	-0.0075761	-3.7880	0.012254	0.00021206	1
IC-7018483	25.000	25.479	0.47899	1.9160	1.6945	0.0033870	1
IC-7019492	50.000	49.529	-0.47141	-0.94282	3.2946	0.011783	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	-0.000023375
A1 (Gain):	0.19862
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

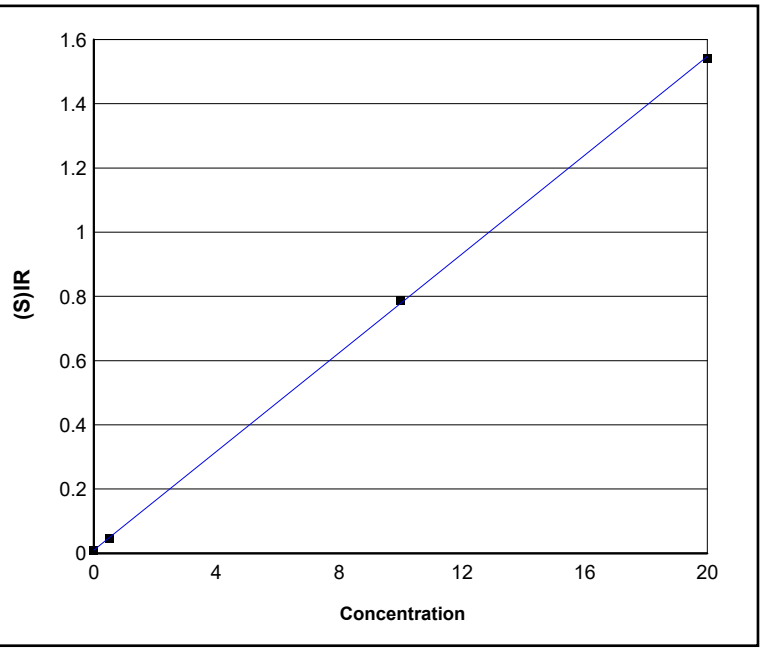
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000009342	0.0000009342	0.00000	-0.000023190	0.00018520	1
IC-7019501	0.020000	0.018912	-0.0010881	-5.4407	0.0037428	0.000046875	1
IC-7018483	1.0000	1.0143	0.014311	1.4311	0.20241	0.00011778	1
IC-7019492	2.0000	1.9868	-0.013225	-0.66125	0.39653	0.0023572	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	-0.00045517
A1 (Gain):	0.091062
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

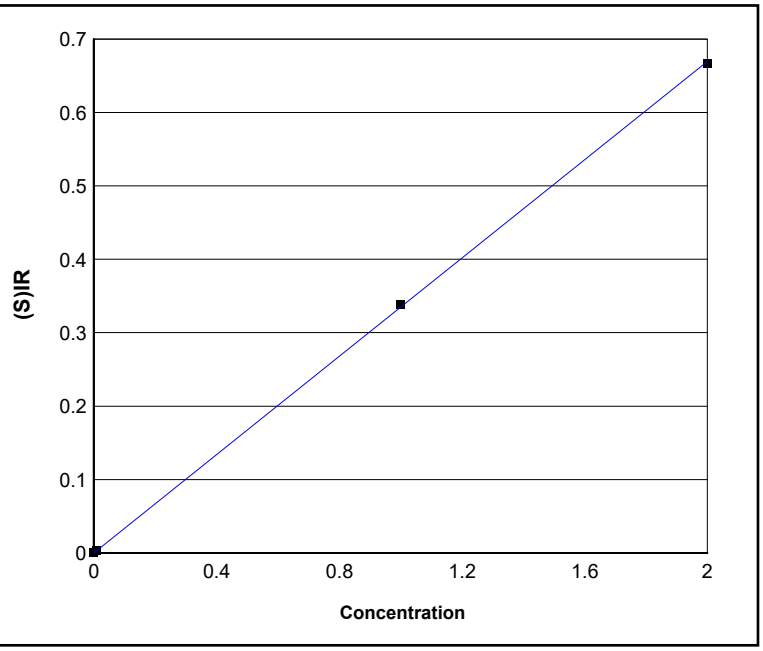
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000014371	0.0000014371	0.00000	-0.00045504	0.000071413	1
IC-7019501	0.025000	0.023323	-0.0016774	-6.7098	0.0016683	0.00018376	1
IC-7018483	1.0000	1.0175	0.017541	1.7541	0.091849	0.00049060	1
IC-7019492	2.0000	1.9841	-0.015857	-0.79287	0.17951	0.00039761	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.0098393
A1 (Gain):	0.076865
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

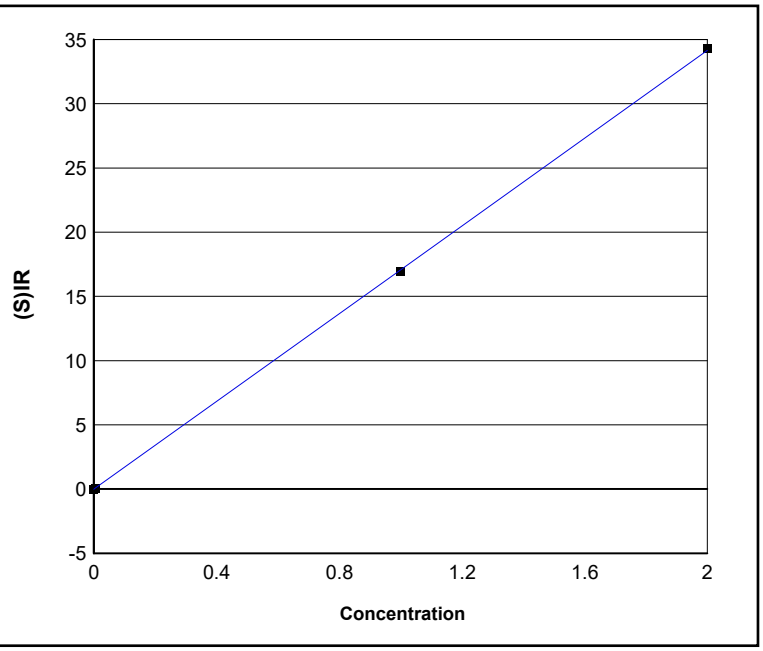
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.000015992	0.000015992	0.00000	0.0098405	0.00045320	1
IC-7019501	0.50000	0.48084	-0.019160	-3.8320	0.046799	0.0012781	1
IC-7018483	10.000	10.108	0.10757	1.0757	0.78675	0.0018922	1
IC-7019492	20.000	19.912	-0.088407	-0.44204	1.5403	0.011967	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.00026256
A1 (Gain):	0.33472
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

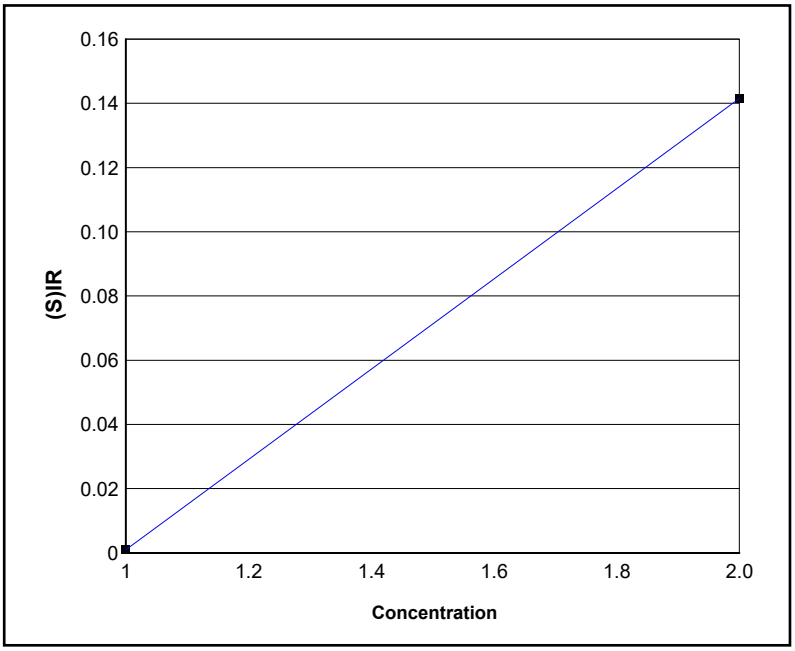
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000010903	0.0000010903	0.00000	0.00026293	0.00010085	1
IC-7019501	0.010000	0.0088623	-0.0011377	-11.377	0.0032289	0.00010492	1
IC-7018483	1.0000	1.0083	0.0083421	0.83421	0.33777	0.0010470	1
IC-7019492	2.0000	1.9928	-0.0072044	-0.36022	0.66729	0.00029825	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.0029340
A1 (Gain):	17.081
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

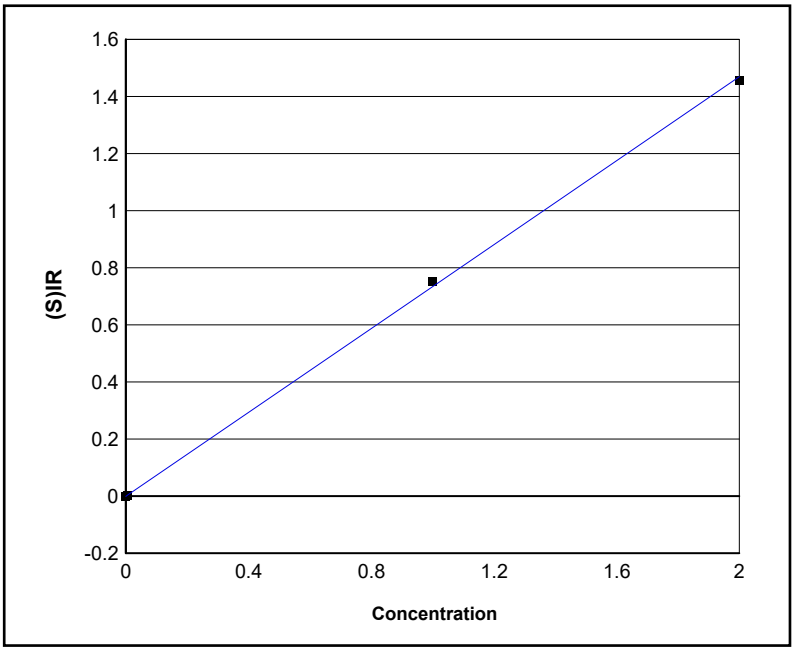
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000590	0.0000000590	0.00000	-0.0029330	0.0013305	1
IC-7019501	0.0050000	0.0049580	-0.000042027	-0.84053	0.081754	0.00035914	1
IC-7018483	1.0000	0.99316	-0.0068428	-0.68428	16.961	0.067606	1
IC-7019492	2.0000	2.0069	0.0068848	0.34424	34.277	0.13938	1



Element Name:	Th
Element Wavelength:	Th 283.730 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-0.1396
A1 (Gain):	0.1405
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

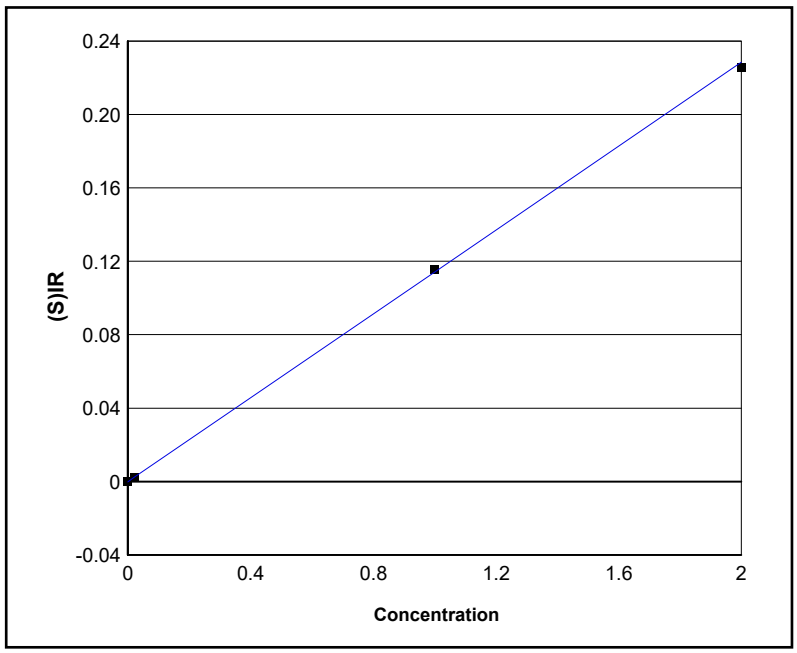
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-7019501	1.000	1.000	0.0000000000	0.0000000000	0.0009387	0.0004050	1
IC-7019492	2.000	2.000	0.0000000000	0.0000000000	0.1415	0.002447	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99987
A0 (Offset):	-0.00072202
A1 (Gain):	0.73471
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

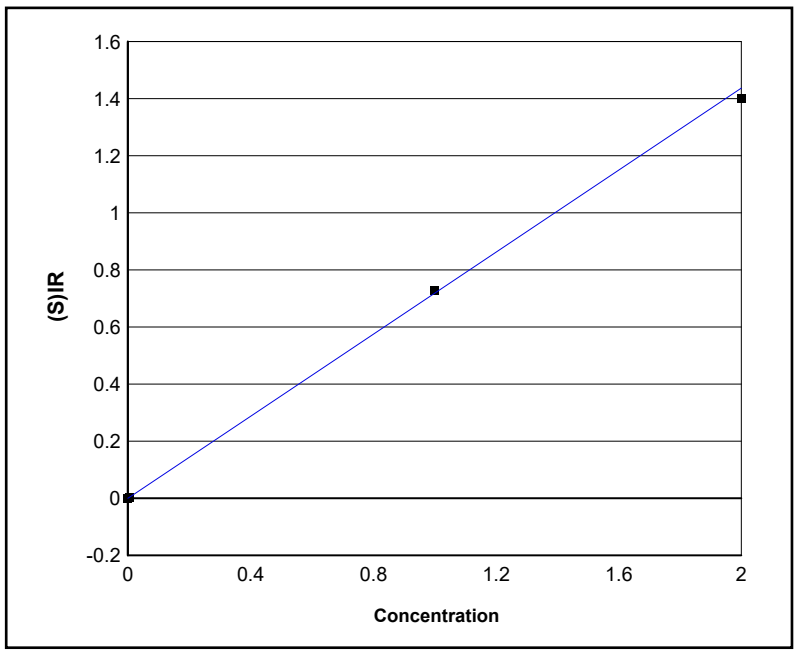
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000004424	0.0000004424	0.00000	-0.00072170	0.00050012	1
IC-7019501	0.0050000	0.0044999	-0.00050012	-10.002	0.0025953	0.000043513	1
IC-7018483	1.0000	1.0226	0.022581	2.2581	0.75170	0.0047988	1
IC-7019492	2.0000	1.9779	-0.022080	-1.1040	1.4547	0.0039288	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	-0.00015473
A1 (Gain):	0.11431
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

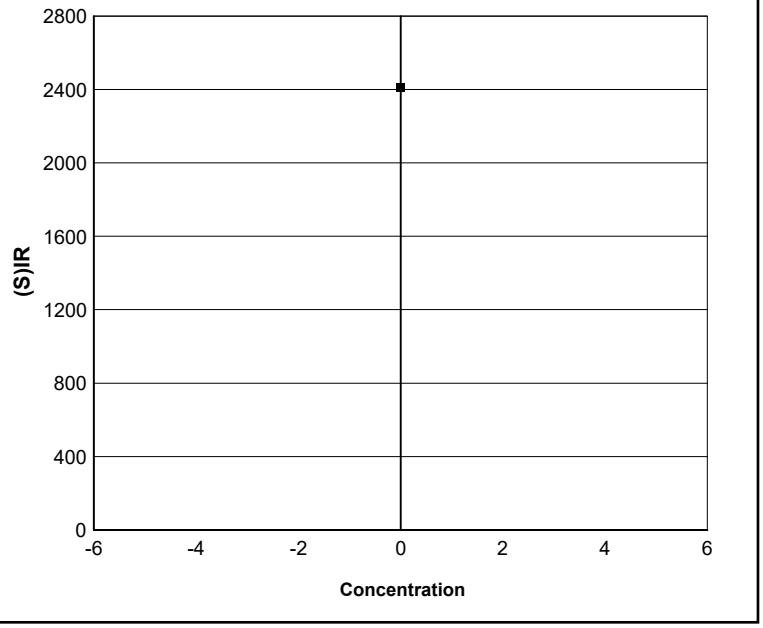
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000002789	0.0000002789	0.00000	-0.00015470	0.000076296	1
IC-7019501	0.020000	0.019552	-0.00044805	-2.2402	0.0020782	0.000015377	1
IC-7018483	1.0000	1.0165	0.016467	1.6467	0.11565	0.00017676	1
IC-7019492	2.0000	1.9840	-0.016018	-0.80091	0.22586	0.00057771	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99983
A0 (Offset):	-0.000038367
A1 (Gain):	0.71857
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

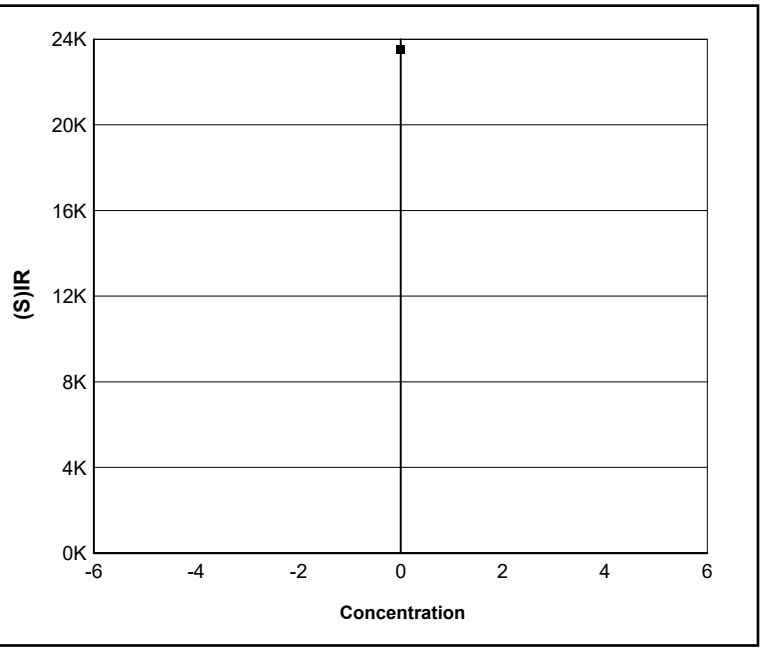
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000001508	0.0000001508	0.00000	-0.000038258	0.000039167	1
IC-7019501	0.0050000	0.0047838	-0.00021623	-4.3245	0.0033028	0.000024293	1
IC-7018483	1.0000	1.0259	0.025941	2.5941	0.72824	0.0041521	1
IC-7019492	2.0000	1.9743	-0.025728	-1.2864	1.4008	0.0078218	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:37:59PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

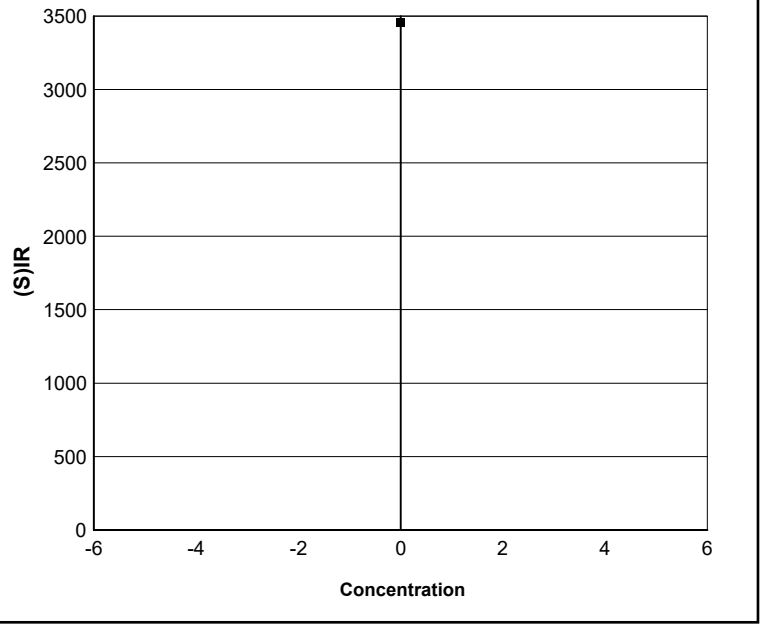
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000			0.0000	2,412	0.3494	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:37:59PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

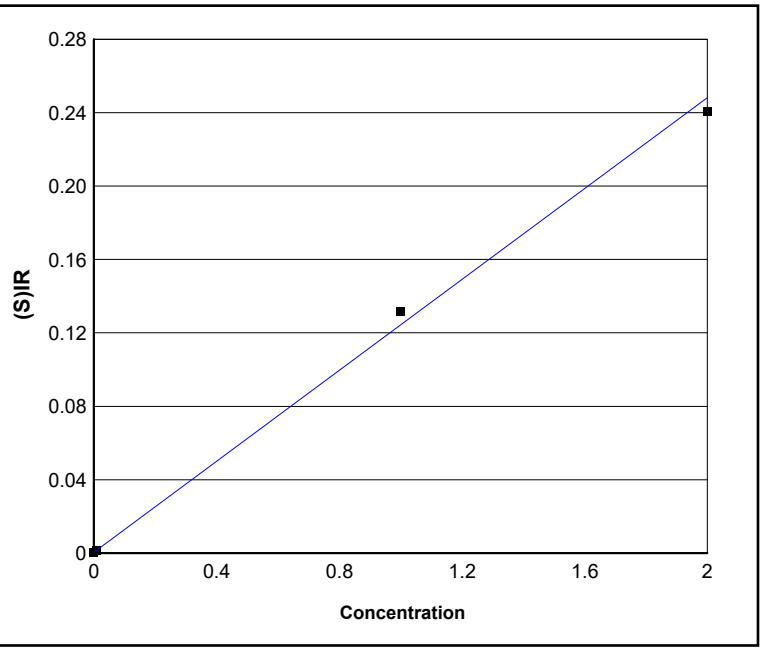
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000			0.0000	23,540	93.67	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:37:59PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

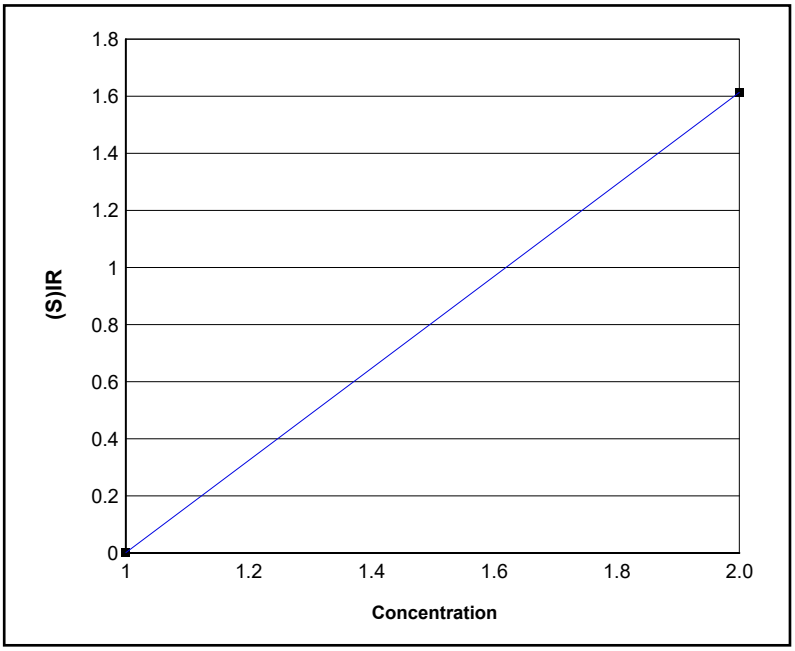
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000			0.0000	3,457	4.251	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	0.99909
A0 (Offset):	0.00054371
A1 (Gain):	0.12385
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000011690	0.0000011690	0.00000	0.00054385	0.000032169	1
IC-7019501	0.010000	0.0085250	-0.0014750	-14.750	0.0015988	0.000044560	1
IC-7018483	1.0000	1.0597	0.059731	5.9731	0.13161	0.00059619	1
IC-7019492	2.0000	1.9417	-0.058255	-2.9127	0.24067	0.00055186	1



Element Name:	Zr
Element Wavelength:	Zr 343.823 nm
Concentration Units:	ppm
Date of Calibration:	6/13/2022 2:49:14PM
Date of Fit:	6/13/2022 3:45:50PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-1.611
A1 (Gain):	1.612
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-7019501	1.000	1.000	0.0000000000	0.0000000000	0.0008235	0.0004226	1
IC-7019492	2.000	2.000	0.0000000000	0.0000000000	1.613	0.005322	1

Sample Name: ICIS-7026764 Acquired: 6/13/2022 14:34:09 Type: Cal
Method: ICAP2 New stds DEC2019(v987) Mode: IR Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00065**	**.00378**	**-.00059**	**.00171**	**.01332**
Stddev	.00010	.00055	.00039	.00014	.00093
%RSD	15.073	14.429	67.395	8.1730	7.0084
#1	-.00058	.00339	-.00087	.00181	.01266
#2	-.00072	.00416	-.00031	.00162	.01398

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00492**	**-.01176**	**.01266**	**-.00045**	**.0014**
Stddev	.00019	.00033	.00203	.00030	.0009
%RSD	3.9609	2.7694	16.017	66.429	67.84
#1	.00506	-.01199	.01123	-.00067	.0020
#2	.00478	-.01153	.01410	-.00024	.0007

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00012**	**.00019**	**-.00451**	**.00502**	**.00075**
Stddev	.00001	.00006	.00022	.00057	.00186
%RSD	6.3453	31.858	4.9364	11.435	247.23
#1	.00013	.00014	-.00435	.00461	.00207
#2	.00012	.00023	-.00467	.00543	-.00056

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.01304**	**-.00768**	**-.00003**	**.00159**	**.00018**
Stddev	.00015	.00812	.00012	.00002	.00006
%RSD	1.1536	105.69	341.49	1.3469	34.842
#1	-.01293	-.01343	.00005	.00157	.00022
#2	-.01314	-.00194	-.00012	.00160	.00013

Sample Name: ICIS-7026764 Acquired: 6/13/2022 14:34:09 Type: Cal
Method: ICAP2 New stds DEC2019(v987) Mode: IR Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00009**	**-.01192**	**-.02442**	**-.00035**	**-.00028**
Stddev	.00004	.00057	.00524	.00015	.00004
%RSD	40.184	4.7703	21.449	42.910	13.786
#1	.00007	-.01232	-.02812	-.00046	-.00031
#2	.00012	-.01152	-.02072	-.00024	-.00025

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00055**	**-.00002**	**-.00046**	**.00984**	**.00026**
Stddev	.00021	.00019	.00007	.00045	.00010
%RSD	38.420	798.64	15.694	4.6054	38.358
#1	-.00070	-.00015	-.00051	.00952	.00033
#2	-.00040	.00011	-.00040	.01016	.00019

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00293**	**-.00072**	**-.00015**	**-.00004**	**.00054**
Stddev	.00133	.00050	.00008	.00004	.00003
%RSD	45.361	69.297	49.320	102.37	5.9150
#1	-.00199	-.00108	-.00021	-.00001	.00057
#2	-.00387	-.00037	-.00010	-.00007	.00052

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3261.4**	**2412.0**	**23539.**	**3457.3**
Stddev	4.6	.3	94.	4.3
%RSD	.14125	.01449	.39792	.12295
#1	3264.6	2412.2	23606.	3454.3
#2	3258.1	2411.7	23473.	3460.3

Sample Name: IC-7019501 Acquired: 6/13/2022 14:38:03 Type: Cal
Method: ICAP2 New stds DEC2019(v987) Mode: IR Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00278**	**.01438**	**.00134**	**.01534**	**.03429**
Stddev	.00037	.00049	.00018	.00007	.00519
%RSD	13.291	3.3811	13.220	.48282	15.138
#1	.00252	.01473	.00147	.01540	.03062
#2	.00304	.01404	.00122	.01529	.03796

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.04139**	**.01890**	**.23401**	**.00772**	**.00765**
Stddev	.00010	.00035	.00060	.00008	.00002
%RSD	.24465	1.8383	.25622	1.0081	.31374
#1	.04146	.01914	.23359	.00767	.00766
#2	.04132	.01865	.23443	.00778	.00763

Elem	Cr2677	Cu3273	Fe2599	Fe2714	K_7664
Line	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}	766.490 { 44}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00176**	**.00153**	**.01543**	**.00135**	**.04432**
Stddev	.00015	.00007	.00033	.00043	.00051
%RSD	8.3640	4.8973	2.1447	32.169	1.1402
#1	.00186	.00148	.01519	.00166	.04396
#2	.00166	.00158	.01566	.00104	.04468

Elem	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020
Line	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2	202.030 {467}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.09753**	**.00966**	**.00998**	**.00087**	**.00970**
Stddev	.00760	.00015	.00025	.00002	.00003
%RSD	7.7970	1.5011	2.5011	2.5792	.26210
#1	.09215	.00977	.01016	.00085	.00972
#2	.10291	.00956	.00981	.00089	.00968

Sample Name: IC-7019501 Acquired: 6/13/2022 14:38:03 Type: Cal
Method: ICAP2 New stds DEC2019(v987) Mode: IR Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Na8183	Ni2316	P_2136	Pb2203
Line	589.592 { 57}	818.326 { 41}	231.604 {446}	213.618 {458}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.45756**	**-.00345**	**.00619**	**-.0028**	**.00265**
Stddev	.00881	.00401	.00007	.0001	.00024
%RSD	1.9259	116.10	1.0588	4.080	9.1031
#1	.45133	-.00628	.00614	-.0027	.00282
#2	.46379	-.00062	.00623	-.0029	.00248

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01225**	**.00374**	**.00167**	**.04680**	**.00323**
Stddev	.00021	.00005	.00018	.00128	.00010
%RSD	1.7306	1.2524	11.014	2.7311	3.2493
#1	.01210	.00378	.00154	.04590	.00330
#2	.01240	.00371	.00180	.04770	.00315

Elem	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Line	407.771 { 83}	283.730 {119}	334.904 {101}	190.856 {477}	292.402 {115}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.08175**	**.0009**	**.00260**	**.00208**	**.00330**
Stddev	.00036	.0004	.00004	.00002	.00002
%RSD	.43929	43.14	1.6766	.73995	.73553
#1	.08201	.0007	.00256	.00209	.00332
#2	.08150	.0012	.00263	.00207	.00329

Elem	Zn2062	Zr3438
Line	206.200 {163}	343.823 { 98}
Units	Cts/S	Cts/S
Avg	**.00160**	**.0008**
Stddev	.00004	.0004
%RSD	2.7870	51.31
#1	.00163	.0005
#2	.00157	.0011

Sample Name: IC-7019501 Acquired: 6/13/2022 14:38:03 Type: Cal
Method: ICAP2 New stds DEC2019(v987) Mode: IR Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3348.8**	**2478.4**	**24199.**	**3510.4**
Stddev	7.2	5.1	148.	21.5
%RSD	.21465	.20493	.61357	.61345
#1	3353.9	2482.0	24094.	3525.6
#2	3343.7	2474.8	24304.	3495.2

Sample Name: IC-7018483 Acquired: 6/13/2022 14:41:58 Type: Cal
Method: ICAP2 New stds DEC2019(v987) Mode: IR Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.54323**	**2.6995**	**.15453**	**.75763**	**11.130**
Stddev	.00294	.0132	.00068	.00305	.091
%RSD	.54204	.48855	.43902	.40317	.82041
#1	.54115	2.7089	.15405	.75547	11.195
#2	.54531	2.6902	.15500	.75979	11.066

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**17.687**	**15.575**	**22.694**	**3.9101**	**.0648**
Stddev	.096	.077	.076	.0039	.0017
%RSD	.54369	.49140	.33649	.09977	2.577
#1	17.619	15.629	22.748	3.9074	.0660
#2	17.755	15.521	22.640	3.9129	.0636

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.9433**	**.47915**	**.50427**	**14.252**	**.95091**
Stddev	.0011	.00235	.00162	.071	.00533
%RSD	.05841	.49113	.32209	.49993	.56083
#1	1.9425	.47748	.50313	14.303	.95468
#2	1.9441	.48081	.50542	14.202	.94714

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6.2357**	**3.7649**	**2.5490**	**2.7014**	**.20027**
Stddev	.0277	.0228	.0112	.0157	.00029
%RSD	.44355	.60528	.44064	.58225	.14418
#1	6.2553	3.7810	2.5411	2.6903	.20048
#2	6.2162	3.7488	2.5569	2.7125	.20007

Sample Name: IC-7018483 Acquired: 6/13/2022 14:41:58 Type: Cal
Method: ICAP2 New stds DEC2019(v987) Mode: IR Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.98523**	**26.252**	**.87009**	**.69493**	**.32261**
Stddev	.00383	.152	.00469	.00018	.00001
%RSD	.38912	.57924	.53863	.02653	.00296
#1	.98252	26.359	.87341	.69479	.32260
#2	.98794	26.144	.86678	.69506	.32262

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.6945**	**.20241**	**.09185**	**.78675**	**.33777**
Stddev	.0034	.00012	.00049	.00189	.00105
%RSD	.19988	.05819	.53414	.24051	.30998
#1	1.6922	.20232	.09150	.78809	.33851
#2	1.6969	.20249	.09220	.78542	.33703

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**16.961**	**.75170**	**.11565**	**.72824**	**.13161**
Stddev	.068	.00480	.00018	.00415	.00060
%RSD	.39858	.63839	.15283	.57016	.45298
#1	17.009	.74831	.11578	.72530	.13119
#2	16.914	.75509	.11553	.73118	.13204

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2866.0**	**2347.4**	**21737.**	**3301.0**
Stddev	5.6	4.8	147.	13.0
%RSD	.19636	.20646	.67648	.39322
#1	2862.0	2344.0	21841.	3310.2
#2	2870.0	2350.8	21633.	3291.8

Sample Name: IC-7019492 Acquired: 6/13/2022 14:45:39 Type: Cal
Method: ICAP2 New stds DEC2019(v987) Mode: IR Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.0798**	**5.3397**	**.30233**	**1.4487**	**22.397**
Stddev	.0051	.0218	.00010	.0007	.067
%RSD	.47168	.40795	.03212	.05135	.29981
#1	1.0834	5.3243	.30240	1.4492	22.350
#2	1.0762	5.3551	.30226	1.4481	22.445

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**34.065**	**30.875**	**44.440**	**7.6155**	**.1276**
Stddev	.068	.094	.179	.0102	.0033
%RSD	.19925	.30292	.40184	.13423	2.566
#1	34.113	30.809	44.314	7.6228	.1253
#2	34.017	30.941	44.566	7.6083	.1300

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.8488**	**.91904**	**1.0011**	**27.635**	**1.8265**
Stddev	.0030	.00657	.0048	.103	.0142
%RSD	.07775	.71512	.47957	.37355	.77644
#1	3.8509	.92369	1.0045	27.562	1.8164
#2	3.8467	.91440	.99766	27.708	1.8365

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12.907**	**7.7943**	**4.8868**	**5.2268**	**.39459**
Stddev	.054	.0206	.0224	.0229	.00185
%RSD	.41750	.26411	.45836	.43790	.46893
#1	12.869	7.7797	4.9026	5.2430	.39589
#2	12.945	7.8088	4.8709	5.2106	.39328

Sample Name: IC-7019492 Acquired: 6/13/2022 14:45:39 Type: Cal
Method: ICAP2 New stds DEC2019(v987) Mode: IR Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	P_2136
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	213.618 {458}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.9188**	**53.586**	**1.7614**	**1.3728**	**5.256**
Stddev	.0024	.205	.0032	.0022	.013
%RSD	.12447	.38281	.18187	.16253	.2398
#1	1.9205	53.441	1.7591	1.3744	5.265
#2	1.9171	53.732	1.7637	1.3712	5.247

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.63188**	**3.2946**	**.39653**	**.17951**	**1.5403**
Stddev	.00107	.0118	.00236	.00040	.0120
%RSD	.16885	.35764	.59446	.22149	.77688
#1	.63264	3.3029	.39820	.17980	1.5319
#2	.63113	3.2862	.39486	.17923	1.5488

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908
Line	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}	190.856 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.66729**	**34.277**	**.1415**	**1.4547**	**.22586**
Stddev	.00030	.139	.0024	.0039	.00058
%RSD	.04470	.40664	1.729	.27008	.25578
#1	.66750	34.179	.1432	1.4575	.22545
#2	.66708	34.376	.1398	1.4519	.22627

Elem	V_2924	Zn2062	Zr3438
Line	292.402 {115}	206.200 {163}	343.823 { 98}
Units	Cts/S	Cts/S	Cts/S
Avg	**1.4008**	**.24067**	**1.613**
Stddev	.0078	.00055	.005
%RSD	.55840	.22930	.3300
#1	1.4063	.24106	1.609
#2	1.3952	.24028	1.617

Sample Name: IC-7019492 Acquired: 6/13/2022 14:45:39 Type: Cal
Method: ICAP2 New stds DEC2019(v987) Mode: IR Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2706.1**	**2307.7**	**21942.**	**3350.4**
Stddev	2.6	1.9	83.	17.8
%RSD	.09543	.08161	.37610	.53239
#1	2708.0	2309.0	21883.	3363.0
#2	2704.3	2306.3	22000.	3337.8

Sample Name: ICV-7017592 Acquired: 6/13/2022 14:49:20 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.73738**	**35.766**	**.74208**	**.76646**	**.73701**
Stddev	.00216	.463	.00157	.00033	.01254
%RSD	.29229	1.2957	.21140	.04305	1.7009
#1	.73585	36.094	.74097	.76623	.74588
#2	.73890	35.439	.74318	.76669	.72815
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.74400**	**35.968**	**.73289**	**-.0530**	**.72792**
Stddev	.01088	.474	.00027	.0214	.00052
%RSD	1.4625	1.3172	.03740	40.43	.07145
#1	.75170	36.303	.73270	-.0681	.72829
#2	.73631	35.633	.73309	-.0378	.72755
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.75300**	**.72926**	**36.562**	W **34.826**	**.71601**
Stddev	.00079	.00509	.538	.467	.01283
%RSD	.10535	.69843	1.4708	1.3401	1.7913
#1	.75244	.72566	36.943	35.156	.72508
#2	.75356	.73286	36.182	34.496	.70694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				37.519	
Range				-5.0000%	

Sample Name: ICV-7017592 Acquired: 6/13/2022 14:49:20 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.045**	**.75211**	**.75816**	W **35.140**	**.73455**
Stddev	.164	.00357	.00097	.492	.00059
%RSD	.45563	.47436	.12803	1.4001	.08052
#1	35.928	.74959	.75885	35.488	.73497
#2	36.161	.75463	.75747	34.793	.73413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				37.519	
Range				-5.0000%	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.24**	**.73022**	**18.169**	**.75478**	**.75668**
Stddev	.00	.00077	.005	.00246	.00221
%RSD	.0067	.10481	.02822	.32573	.29240
#1	34.24	.73076	18.172	.75304	.75824
#2	34.24	.72968	18.165	.75651	.75511
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.7504**	**.71781**	**.73556**	**1.026**	**.73900**
Stddev	.0988	.00177	.01051	.004	.00359
%RSD	1.2751	.24726	1.4289	.3607	.48521
#1	7.8202	.71907	.74299	1.024	.73647
#2	7.6805	.71656	.72813	1.029	.74154
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: ICV-7017592 Acquired: 6/13/2022 14:49:20 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.75148**	**.73903**	**.73828**	**1.000**
Stddev	.00019	.00564	.00437	.001
%RSD	.02595	.76251	.59151	.0805
#1	.75162	.73505	.73519	1.001
#2	.75134	.74302	.74137	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2920.9**	**2364.1**	**22639.**	**3391.6**
Stddev	2.0	5.0	145.	42.9
%RSD	.06830	.21137	.64127	1.2654
#1	2922.4	2367.6	22742.	3361.3
#2	2919.5	2360.6	22536.	3422.0

Sample Name: ICB-7026764 Acquired: 6/13/2022 14:53:04 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**-.00627**	**.00058**	**.00179**	**.00003**
Stddev	.00001	.00018	.00022	.00080	.00002
%RSD	3.7222	2.9270	37.968	44.842	87.291
#1	-.00033	-.00640	.00074	.00236	.00004
#2	-.00031	-.00614	.00043	.00122	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00079**	**-.00011**	**-.0266**	**.00010**
Stddev	.00010	.00080	.00003	.0027	.00020
%RSD	457.83	101.42	26.708	10.22	211.14
#1	-.00005	-.00022	-.00009	-.0285	-.00005
#2	.00009	-.00135	-.00013	-.0247	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.00228**	**-.01182**	**-.04552**	**.00084**
Stddev	.00055	.00114	.00108	.01840	.00118
%RSD	184.66	49.890	9.1289	40.424	140.11
#1	.00009	.00308	-.01105	-.03251	.00167
#2	-.00068	.00148	-.01258	-.05853	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-7026764 Acquired: 6/13/2022 14:53:04 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00162**	**-.00011**	**.00019**	**-.00590**	**.00012**
Stddev	.00138	.00002	.00005	.00375	.00010
%RSD	84.875	16.340	28.640	63.607	89.967
#1	-.00259	-.00010	.00023	-.00856	.00004
#2	-.00065	-.00013	.00015	-.00325	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00070**	**.00584**	**-.00133**	**.00150**
Stddev	.00	.00049	.00053	.00179	.00288
%RSD	.0001	69.662	9.0261	134.43	191.33
#1	25.02	-.00036	.00621	-.00260	-.00053
#2	25.02	-.00105	.00546	-.00007	.00354
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00103**	**-.00082**	**.00003**	**.9937**	**-.00021**
Stddev	.00958	.00013	.00004	.0021	.00008
%RSD	927.35	15.260	160.12	.2147	36.712
#1	-.00780	-.00091	.00006	.9921	-.00027
#2	.00574	-.00073	-.00000	.9952	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-7026764 Acquired: 6/13/2022 14:53:04 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00185**	**.00017**	**-.00204**	**.9989**
Stddev	.00003	.00045	.00016	.0010
%RSD	1.7508	256.72	7.7777	.0981
#1	.00183	-.00014	-.00192	.9996
#2	.00187	.00049	-.00215	.9982
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3306.2**	**2439.3**	**23697.**	**3314.5**
Stddev	1.2	.1	44.	17.8
%RSD	.03717	.00613	.18607	.53587
#1	3307.1	2439.2	23666.	3327.0
#2	3305.4	2439.4	23729.	3301.9

Sample Name: ICVL-7028546 Acquired: 6/13/2022 14:56:58 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00537**	**.19154**	**.01151**	**.01989**	**.00210**
Stddev	.00055	.01048	.00015	.00002	.00002
%RSD	10.260	5.4721	1.3063	.09285	.93180
#1	.00576	.18413	.01162	.01990	.00209
#2	.00498	.19895	.01140	.01987	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00213**	**.49418**	**.00209**	**-.0422**	**.00388**
Stddev	.00004	.00789	.00006	.0140	.00012
%RSD	1.8668	1.5967	3.1020	33.12	3.2144
#1	.00216	.49976	.00214	-.0521	.00397
#2	.00210	.48860	.00205	-.0323	.00379
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00399**	**.01222**	**.03939**	**.44658**	**.02720**
Stddev	.00019	.00033	.00065	.04316	.00009
%RSD	4.8617	2.6998	1.6618	9.6640	.31626
#1	.00412	.01198	.03985	.47710	.02726
#2	.00385	.01245	.03892	.41606	.02714
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-7028546 Acquired: 6/13/2022 14:56:58 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20021**	**.00306**	**.00983**	**.89229**	**.00942**
Stddev	.00380	.00003	.00029	.01772	.00005
%RSD	1.8988	.96412	2.9764	1.9856	.50012
#1	.19752	.00309	.01003	.90482	.00946
#2	.20290	.00304	.00962	.87977	.00939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00906**	**.20411**	**.01809**	**.02501**
Stddev	.00	.00035	.00361	.00194	.00265
%RSD	.0010	3.8364	1.7676	10.727	10.600
#1	25.00	.00882	.20156	.01672	.02689
#2	25.00	.00931	.20667	.01946	.02314
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46506**	**.00903**	**.00490**	F **1.004**	**.00471**
Stddev	.00666	.00013	.00014	.001	.00042
%RSD	1.4313	1.4690	2.9311	.0542	8.8858
#1	.46036	.00913	.00480	1.004	.00501
#2	.46977	.00894	.00500	1.005	.00441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: ICVL-7028546 Acquired: 6/13/2022 14:56:58 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01933**	**.00452**	**.00862**	F **.9990**
Stddev	.00020	.00008	.00004	.0004
%RSD	1.0521	1.8416	.45031	.0370
#1	.01947	.00446	.00859	.9993
#2	.01919	.00457	.00865	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3313.3**	**2453.9**	**23796.**	**3414.3**
Stddev	22.6	11.8	147.	43.6
%RSD	.68097	.48175	.61754	1.2764
#1	3297.3	2445.5	23900.	3383.5
#2	3329.2	2462.2	23692.	3445.1

Sample Name: ICSA-7017591 Acquired: 6/13/2022 15:00:54 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**489.14**	**-.00119**	**-.00138**	**.00769**
Stddev	.00064	2.03	.00531	.00042	.00003
%RSD	181.56	.41427	447.86	30.719	.38720
#1	.00010	490.58	-.00494	-.00168	.00767
#2	-.00081	487.71	.00257	-.00108	.00771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**462.11**	**.00001**	**.0098**	**-.00001**
Stddev	.00002	1.56	.00007	.0025	.00011
%RSD	14.110	.33808	1142.9	25.46	887.68
#1	-.00013	461.01	.00006	.0115	-.00009
#2	-.00016	463.22	-.00005	.0080	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00126**	**.00348**	**183.97**	**-.03256**	**-.00647**
Stddev	.00035	.00016	.39	.02893	.00128
%RSD	27.681	4.5479	.21066	88.855	19.827
#1	.00101	.00337	184.24	-.01210	-.00556
#2	.00151	.00359	183.69	-.05301	-.00737
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-7017591 Acquired: 6/13/2022 15:00:54 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**506.91**	**-.00060**	**-.00173**	**.02952**	**.00102**
Stddev	.70	.00004	.00016	.00716	.00002
%RSD	.13716	7.3265	8.9908	24.261	2.1152
#1	507.40	-.00063	-.00184	.02445	.00100
#2	506.41	-.00057	-.00162	.03458	.00103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.84**	**.00100**	**-.06235**	**.00176**	**-.00151**
Stddev	.00	.00056	.00338	.00300	.00143
%RSD	.0130	55.770	5.4133	170.29	94.662
#1	24.84	.00060	-.06474	.00388	-.00050
#2	24.85	.00139	-.05996	-.00036	-.00252
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02726**	**-.00225**	**.01247**	**1.070**	**.00216**
Stddev	.00010	.00017	.00026	.002	.00001
%RSD	.36820	7.6725	2.0556	.2158	.34803
#1	-.02719	-.00213	.01265	1.072	.00217
#2	-.02734	-.00238	.01229	1.069	.00216
Check ?	None	Chk Pass	None	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-7017591 Acquired: 6/13/2022 15:00:54 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00341**	**.00077**	**-.00186**	**1.003**
Stddev	.00052	.00041	.00063	.001
%RSD	15.287	52.649	34.083	.0948
#1	-.00304	.00106	-.00141	1.002
#2	-.00378	.00048	-.00231	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2459.6**	**2153.8**	**20132.**	**3251.6**
Stddev	6.3	6.3	43.	1.4
%RSD	.25638	.29451	.21418	.04445
#1	2464.0	2158.2	20101.	3250.6
#2	2455.1	2149.3	20162.	3252.7

Sample Name: ICSAB-7019499 Acquired: 6/13/2022 15:04:55 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50685**	**476.96**	**.48513**	**4.5981**	**.49868**
Stddev	.00032	3.63	.00518	.0035	.00027
%RSD	.06277	.76058	1.0687	.07632	.05382
#1	.50663	479.52	.48146	4.5957	.49849
#2	.50708	474.39	.48879	4.6006	.49887
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.24004**	**450.88**	**.48981**	**-.0219**	**.47873**
Stddev	.00101	3.03	.00075	.0094	.00070
%RSD	.42136	.67232	.15253	42.82	.14660
#1	.24075	453.02	.48928	-.0286	.47824
#2	.23932	448.74	.49034	-.0153	.47923
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47620**	**.50639**	**177.91**	**4.9547**	**-.00737**
Stddev	.00199	.00052	1.43	.0294	.00082
%RSD	.41740	.10282	.80512	.59363	11.191
#1	.47761	.50676	178.92	4.9755	-.00795
#2	.47480	.50602	176.90	4.9339	-.00678
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None
Value					
Range					

Sample Name: ICSAB-7019499 Acquired: 6/13/2022 15:04:55 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**490.51**	**.47379**	**.47126**	**4.9078**	**.46589**
Stddev	4.25	.00089	.00101	.0360	.00094
%RSD	.86669	.18701	.21348	.73301	.20143
#1	493.52	.47442	.47197	4.9332	.46522
#2	487.51	.47317	.47055	4.8823	.46655
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.89**	**.47416**	**-.05420**	**.46566**	**.47506**
Stddev	.00	.00005	.00584	.00667	.00082
%RSD	.0142	.01157	10.775	1.4330	.17357
#1	26.89	.47412	-.05007	.46094	.47448
#2	26.89	.47420	-.05833	.47038	.47564
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.6930**	**.46706**	**.47901**	**1.067**	**.48117**
Stddev	.0273	.00008	.00377	.005	.00108
%RSD	.58098	.01673	.78650	.4692	.22397
#1	4.7123	.46701	.48167	1.063	.48041
#2	4.6737	.46712	.47634	1.070	.48193
Check ?	None	None	None	None	None
Value					
Range					

Sample Name: ICSAB-7019499 Acquired: 6/13/2022 15:04:55 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.46889**	**.47405**	**.43301**	**1.004**
Stddev	.00076	.00011	.00097	.000
%RSD	.16219	.02339	.22486	.0072
#1	.46943	.47397	.43370	1.004
#2	.46835	.47413	.43233	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2477.8**	**2169.4**	**20460.**	**3333.1**
Stddev	3.9	3.0	33.	15.9
%RSD	.15920	.13988	.16016	.47565
#1	2480.6	2171.6	20437.	3321.9
#2	2475.0	2167.3	20483.	3344.4

Sample Name: ICEX1 Acquired: 6/13/2022 15:08:46 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**-.05246**	**4.6734**	**.00894**	**.00007**
Stddev	.00015	.01905	.0248	.00071	.00002
%RSD	28.931	36.308	.52979	7.9933	33.874
#1	-.00040	-.03899	4.6909	.00945	.00006
#2	-.00060	-.06593	4.6559	.00844	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.02388**	**.00019**	**-.0294**	**.00011**
Stddev	.00011	.00087	.00019	.0245	.00003
%RSD	29.287	3.6431	99.741	83.09	31.113
#1	.00047	.02450	.00033	-.0121	.00013
#2	.00031	.02327	.00006	-.0467	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**24.530**	**-.00426**	**-.02754**	**.00433**
Stddev	.00068	.116	.00434	.06087	.00058
%RSD	83.247	.47126	101.97	221.02	13.329
#1	.00130	24.611	-.00119	.01550	.00392
#2	.00034	24.448	-.00733	-.07059	.00473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 6/13/2022 15:08:46 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01472**	**.00120**	**-.00146**	**.00324**	**.00001**
Stddev	.00151	.00003	.00027	.00587	.00040
%RSD	10.244	2.4218	18.671	181.18	3032.4
#1	.01578	.00118	-.00127	-.00091	-.00027
#2	.01365	.00122	-.00166	.00739	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**-.00081**	**.01776**	**.00078**	**-.00088**
Stddev	-----	.00028	.00309	.00232	.00157
%RSD	-----	34.264	17.394	296.78	178.46
#1	^ -----	-.00100	.01994	.00243	-.00200
#2	^ -----	-.00061	.01557	-.00086	.00023
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05200**	**.00037**	**.00012**	**.9986**	F **.00774**
Stddev	.01246	.00012	.00011	.0082	.00049
%RSD	23.958	32.365	85.343	.8239	6.2987
#1	.04319	.00045	.00020	1.004	.00739
#2	.06081	.00028	.00005	.9928	.00808
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Fail
High Limit					.00500
Low Limit					-.00500

Sample Name: ICEX1 Acquired: 6/13/2022 15:08:46 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00908**	**4.9013**	**-.00125**	**.9987**
Stddev	.00127	.0120	.00013	.0003
%RSD	14.034	.24405	10.173	.0274
#1	.00998	4.9098	-.00134	.9985
#2	.00818	4.8929	-.00116	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3268.9**	**2415.7**	**23897.**	**3379.7**
Stddev	6.7	2.9	3.	34.2
%RSD	.20608	.12175	.01130	1.0106
#1	3273.6	2417.8	23899.	3355.5
#2	3264.1	2413.6	23895.	3403.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.23%	100.16%	101.52%	97.755%
Range				

Sample Name: ICEX2 Acquired: 6/13/2022 15:12:49 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**.03293**	**.00033**	**.00405**	**.00016**
Stddev	.00078	.01075	.00415	.00135	.00000
%RSD	37.389	32.644	1274.4	33.423	3.0840
#1	.00154	.02533	.00326	.00501	.00015
#2	.00265	.04054	-.00261	.00309	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.04946**	**.00052**	**-.0452**	**.00142**
Stddev	.00000	.00170	.00009	.0209	.00007
%RSD	6.4535	3.4364	16.745	46.31	5.1790
#1	-.00005	.05066	.00058	-.0599	.00147
#2	-.00005	.04826	.00046	-.0304	.00137
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00177**	**.00848**	**-.00886**	**-.00469**	**9.1635**
Stddev	.00012	.00023	.00028	.04231	.1591
%RSD	6.5661	2.6685	3.1932	902.24	1.7360
#1	.00169	.00832	-.00866	.02523	9.2760
#2	.00186	.00864	-.00906	-.03460	9.0510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 6/13/2022 15:12:49 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02300**	**.00038**	**.00129**	**.02189**	**.00577**
Stddev	.00107	.00002	.00000	.00738	.00032
%RSD	4.6519	5.6653	.01528	33.723	5.5320
#1	-.02375	.00039	.00129	.02710	.00599
#2	-.02224	.00036	.00129	.01667	.00554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00460**	**.01915**	**.00277**	**-.00291**
Stddev	.02	.00040	.00156	.00020	.00422
%RSD	.0631	8.6915	8.1652	7.3257	144.80
#1	24.99	.00432	.02025	.00291	.00007
#2	25.01	.00489	.01804	.00263	-.00590
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.017**	**-.00040**	**.00026**	**.9960**	**19.037**
Stddev	.456	.00014	.00002	.0003	.035
%RSD	.92996	34.688	9.1275	.0300	.18356
#1	49.339	-.00030	.00024	.9962	19.012
#2	48.694	-.00050	.00027	.9958	19.062
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 6/13/2022 15:12:49 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**19.081**	**-.00003**	**.00356**	**.9997**
Stddev	.046	.00038	.00052	.0005
%RSD	.24221	1393.1	14.561	.0450
#1	19.048	-.00030	.00392	.9993
#2	19.114	.00024	.00319	1.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3153.5**	**2444.7**	**24008.**	**3641.9**
Stddev	18.1	8.3	34.	27.9
%RSD	.57456	.33929	.14029	.76586
#1	3166.3	2450.6	23984.	3622.1
#2	3140.7	2438.9	24032.	3661.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.692%	101.36%	101.99%	105.34%
Range				

Sample Name: ICEX3 Acquired: 6/13/2022 15:16:48 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00293**	**.02640**	**.00141**	**.00117**	**.00002**
Stddev	.00053	.01348	.00100	.00033	.00001
%RSD	18.148	51.072	70.445	28.578	42.582
#1	-.00330	.03593	.00071	.00140	.00002
#2	-.00255	.01686	.00212	.00093	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00547**	**.00046**	**-.3142**	**-.00004**
Stddev	.00003	.00321	.00022	.0046	.00001
%RSD	164.81	58.818	48.370	1.476	21.093
#1	.00000	.00774	.00062	-.3109	-.00005
#2	-.00004	.00319	.00031	-.3175	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00124**	**.00507**	**-.01796**	**-.01309**	**.00172**
Stddev	.00039	.00009	.00166	.01137	.00088
%RSD	31.647	1.6970	9.2376	86.878	51.048
#1	.00151	.00513	-.01679	-.02113	.00110
#2	.00096	.00501	-.01914	-.00505	.00235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 6/13/2022 15:16:48 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.05833**	**49.551**	**-.00209**	**.00413**	**.00038**
Stddev	.00037	.880	.00001	.00173	.00015
%RSD	.62791	1.7750	.31292	41.974	40.046
#1	-.05859	50.173	-.00210	.00536	.00028
#2	-.05807	48.930	-.00209	.00290	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00499**	**90.098**	**-.00300**	**-.00277**
Stddev	.00	.00074	.404	.00154	.00226
%RSD	.0028	14.889	.44830	51.284	81.296
#1	25.01	.00447	90.384	-.00409	-.00118
#2	25.01	.00552	89.813	-.00191	-.00437
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02669**	**.00021**	**.00004**	**.9920**	**.00256**
Stddev	.02850	.00020	.00006	.0049	.00018
%RSD	106.78	96.589	174.24	.4901	7.0794
#1	.04685	.00035	.00008	.9886	.00269
#2	.00654	.00007	-.00001	.9955	.00244
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 6/13/2022 15:16:48 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00990**	**.00454**	**-.00199**	**.9833**
Stddev	.00034	.00005	.00023	.0020
%RSD	3.4503	1.0798	11.536	.2054
#1	-.01014	.00458	-.00216	.9847
#2	-.00966	.00451	-.00183	.9819
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3291.9**	**2466.9**	**23732.**	**3456.1**
Stddev	7.2	6.9	139.	21.5
%RSD	.21940	.28143	.58621	.62300
#1	3297.0	2471.8	23634.	3471.3
#2	3286.8	2462.0	23831.	3440.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.94%	102.28%	100.82%	99.965%
Range				

Sample Name: ICEX4 Acquired: 6/13/2022 15:20:53 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00061**	**.00419**	**.00046**	**-.00083**	**.00009**
Stddev	.00001	.02099	.00069	.00026	.00000
%RSD	1.0712	500.84	149.71	31.535	4.3246
#1	-.00062	-.01065	-.00003	-.00102	.00009
#2	-.00061	.01903	.00095	-.00065	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.01182**	**-.00115**	**-.0287**	**18.328**
Stddev	.00002	.00171	.00001	.0168	.021
%RSD	10.588	14.468	1.0573	58.45	.11413
#1	-.00025	.01061	-.00115	-.0406	18.343
#2	-.00021	.01302	-.00116	-.0169	18.313
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8483**	**.00615**	**-.01054**	**.02262**	**.00107**
Stddev	.0054	.00062	.00025	.00250	.00120
%RSD	.05516	10.082	2.3321	11.065	111.49
#1	9.8445	.00571	-.01071	.02439	.00192
#2	9.8521	.00659	-.01037	.02085	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 6/13/2022 15:20:53 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00624**	F **.01004**	**.00025**	**-.00156**	**9.2927**
Stddev	.00152	.00004	.00007	.00569	.0084
%RSD	24.388	.42531	29.423	364.93	.09031
#1	-.00732	.01007	.00030	-.00558	9.2986
#2	-.00517	.01001	.00020	.00246	9.2868
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.00300			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00075**	**.06795**	**-.00186**	**-.00351**
Stddev	.00	.00012	.00239	.00049	.00185
%RSD	.0014	16.356	3.5232	26.612	52.558
#1	25.01	-.00083	.06964	-.00221	-.00221
#2	25.01	-.00066	.06625	-.00151	-.00482
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.12259**	**-.00016**	**.00010**	**.9925**	**.00181**
Stddev	.01130	.00017	.00003	.0070	.00070
%RSD	9.2141	102.93	25.889	.7090	38.553
#1	-.11461	-.00028	.00011	.9876	.00230
#2	-.13058	-.00004	.00008	.9975	.00132
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 6/13/2022 15:20:53 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00430**	**-.00020**	**-.00381**	**.9974**
Stddev	.00106	.00023	.00044	.0009
%RSD	24.640	112.38	11.583	.0888
#1	.00355	-.00036	-.00350	.9968
#2	.00505	-.00004	-.00413	.9981
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3289.7**	**2447.0**	**23803.**	**3470.4**
Stddev	.1	2.4	96.	27.8
%RSD	.00258	.09928	.40206	.80051
#1	3289.8	2445.3	23871.	3450.8
#2	3289.7	2448.7	23735.	3490.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.87%	101.45%	101.12%	100.38%
Range				

Sample Name: ICEX5 Acquired: 6/13/2022 15:24:45 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.04692**	**.00379**	**-.01515**	**-.00012**
Stddev	.00039	.02070	.00064	.00089	.00003
%RSD	152.09	44.117	16.910	5.8523	23.666
#1	.00002	.03228	.00334	-.01578	-.00010
#2	-.00054	.06155	.00424	-.01452	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.01017**	**.00023**	**-.0370**	**-.00018**
Stddev	.00010	.00030	.00007	.0126	.00018
%RSD	92.890	2.9817	32.204	34.00	100.46
#1	-.00018	.01039	.00028	-.0459	-.00005
#2	-.00004	.00996	.00018	-.0281	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.00058**	**-.01401**	**-.02595**	**.00155**
Stddev	.00021	.00008	.00096	.02161	.00031
%RSD	43.301	13.078	6.8849	83.282	19.733
#1	-.00063	.00063	-.01469	-.01067	.00177
#2	-.00033	.00052	-.01333	-.04123	.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 6/13/2022 15:24:45 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.07410**	**.00038**	**5.0868**	**.00019**	**.00047**
Stddev	.00136	.00003	.0074	.00537	.00014
%RSD	1.8302	6.6592	.14467	2875.0	29.746
#1	-.07315	.00039	5.0815	-.00361	.00057
#2	-.07506	.00036	5.0920	.00398	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00098**	**-.00543**	**-.00483**	**.00273**
Stddev	.00	.00007	.00033	.00140	.00149
%RSD	.0026	7.6064	6.1315	29.039	54.385
#1	25.01	.00103	-.00519	-.00384	.00168
#2	25.01	.00093	-.00566	-.00582	.00378
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15598**	**-.00061**	**.00003**	**.9953**	**.00001**
Stddev	.01072	.00003	.00001	.0005	.00011
%RSD	6.8695	5.6563	25.075	.0526	1211.4
#1	.14840	-.00064	.00003	.9949	.00008
#2	.16356	-.00059	.00004	.9957	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 6/13/2022 15:24:45 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00148**	**.00007**	**-.00028**	**.9988**
Stddev	.00051	.00018	.00016	.0010
%RSD	34.429	259.04	57.009	.1018
#1	.00184	.00020	-.00017	.9996
#2	.00112	-.00006	-.00040	.9981
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3377.8**	**2499.3**	**24880.**	**3592.6**
Stddev	3.8	4.8	312.	32.2
%RSD	.11199	.19246	1.2525	.89761
#1	3380.5	2502.7	25100.	3569.8
#2	3375.2	2495.9	24659.	3615.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.57%	103.62%	105.69%	103.91%
Range				

Sample Name: CCV-7018483 Acquired: 6/13/2022 15:28:40 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96545**	**49.002**	**.98115**	**1.0007**	**.97733**
Stddev	.00299	.079	.00168	.0007	.00029
%RSD	.30964	.16207	.17109	.06633	.02998
#1	.96334	49.058	.97996	1.0002	.97754
#2	.96756	48.946	.98234	1.0012	.97713
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98499**	**49.127**	**.98382**	**.9676**	**.97051**
Stddev	.00008	.042	.00135	.0035	.00033
%RSD	.00783	.08646	.13701	.3616	.03373
#1	.98493	49.097	.98287	.9700	.97074
#2	.98504	49.157	.98477	.9651	.97028
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99629**	**.98001**	**49.224**	**48.326**	**.96282**
Stddev	.00523	.00280	.184	.019	.00001
%RSD	.52521	.28544	.37458	.03969	.00110
#1	.99259	.97803	49.094	48.340	.96281
#2	.99999	.98199	49.355	48.313	.96282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/13/2022 15:28:40 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.313**	**.99059**	**.99588**	**48.463**	**.97677**
Stddev	.178	.00480	.00122	.046	.00072
%RSD	.36116	.48473	.12210	.09558	.07340
#1	49.187	.98719	.99502	48.430	.97727
#2	49.439	.99398	.99674	48.496	.97626
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.39**	**.97516**	**24.473**	**.97891**	**.98713**
Stddev	.03	.00166	.046	.00628	.00681
%RSD	.0756	.17021	.18695	.64195	.69000
#1	37.37	.97633	24.441	.97447	.98232
#2	37.41	.97398	24.506	.98336	.99195
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8216**	**.96938**	**.97402**	**1.494**	**.98217**
Stddev	.0038	.00086	.00043	.003	.00112
%RSD	.03866	.08844	.04386	.1764	.11402
#1	9.8243	.96998	.97432	1.492	.98138
#2	9.8189	.96877	.97372	1.496	.98297
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/13/2022 15:28:40 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99309**	**.98147**	**1.0050**	**1.494**
Stddev	.00201	.00308	.0054	.001
%RSD	.20205	.31383	.54036	.0818
#1	.99167	.97929	1.0012	1.495
#2	.99451	.98365	1.0089	1.493
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2883.3**	**2358.5**	**22518.**	**3345.6**
Stddev	1.6	4.7	191.	.2
%RSD	.05414	.19897	.84614	.00700
#1	2884.4	2361.8	22652.	3345.5
#2	2882.2	2355.1	22383.	3345.8

Sample Name: CCB-7026764 Acquired: 6/13/2022 15:32:21 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**-.01899**	**-.00216**	**.00110**	**.00001**
Stddev	.00016	.00582	.00122	.00002	.00000
%RSD	43.934	30.650	56.449	1.4276	58.338
#1	.00026	-.01487	-.00130	.00109	.00001
#2	.00049	-.02310	-.00302	.00111	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00072**	**-.00002**	**-.0323**	**.00016**
Stddev	.00002	.00057	.00002	.0013	.00014
%RSD	58.100	79.040	79.119	4.113	87.834
#1	-.00002	-.00113	-.00003	-.0333	.00006
#2	-.00004	-.00032	-.00001	-.0314	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00182**	**-.01437**	**-.00953**	**.00269**
Stddev	.00022	.00006	.00087	.02280	.00019
%RSD	219.51	3.1017	6.0454	239.18	6.9998
#1	-.00026	.00186	-.01499	-.02566	.00256
#2	.00006	.00178	-.01376	.00659	.00283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/13/2022 15:32:21 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00125**	**-.00005**	**.00038**	**-.02042**	**.00023**
Stddev	.00122	.00001	.00019	.01508	.00012
%RSD	96.994	12.792	49.156	73.843	54.902
#1	.00039	-.00005	.00051	-.03108	.00014
#2	.00211	-.00005	.00025	-.00976	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00004**	**.00553**	**-.00127**	**-.00166**
Stddev	.00	.00140	.00029	.00019	.00034
%RSD	.0036	3900.3	5.2527	15.258	20.367
#1	25.02	-.00096	.00533	-.00141	-.00190
#2	25.01	.00103	.00574	-.00113	-.00142
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00906**	**-.00034**	**.00009**	**.9977**	**-.00023**
Stddev	.00523	.00020	.00006	.0036	.00011
%RSD	57.652	60.307	70.737	.3618	44.994
#1	-.01276	-.00048	.00013	.9952	-.00031
#2	-.00537	-.00019	.00004	1.000	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/13/2022 15:32:21 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00128**	**.00004**	**-.00254**	**.9994**
Stddev	.00061	.00008	.00067	.0003
%RSD	47.892	225.08	26.486	.0275
#1	.00171	.00010	-.00302	.9992
#2	.00085	-.00002	-.00207	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3266.4**	**2407.9**	**23503.**	**3339.2**
Stddev	12.8	8.9	203.	31.8
%RSD	.39101	.37141	.86291	.95374
#1	3275.4	2414.2	23360.	3361.7
#2	3257.4	2401.5	23647.	3316.7

Sample Name: CCVL-7028546 Acquired: 6/13/2022 15:53:56 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00590**	**.21699**	**.01474**	**.01962**	**.00219**
Stddev	.00024	.00827	.00131	.00010	.00005
%RSD	4.1276	3.8128	8.9148	.52606	2.1822
#1	.00573	.21114	.01567	.01969	.00222
#2	.00607	.22284	.01381	.01954	.00215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**.50991**	**.00218**	**-.0813**	**.00414**
Stddev	.00010	.00374	.00011	.0069	.00028
%RSD	4.6973	.73295	4.9781	8.514	6.8700
#1	.00213	.51255	.00210	-.0764	.00434
#2	.00199	.50727	.00226	-.0862	.00394
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00387**	**.01229**	**.04149**	**.43021**	**.02837**
Stddev	.00002	.00058	.00385	.04631	.00122
%RSD	.54431	4.7395	9.2786	10.765	4.3064
#1	.00389	.01187	.03877	.46296	.02750
#2	.00386	.01270	.04421	.39746	.02923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/13/2022 15:53:56 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20218**	**.00332**	**.01050**	**.92017**	**.00998**
Stddev	.00589	.00000	.00028	.00068	.00008
%RSD	2.9131	.10822	2.6896	.07390	.84369
#1	.20634	.00332	.01070	.92065	.00992
#2	.19801	.00333	.01030	.91969	.01004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00938**	**.19806**	**.01850**	**.02484**
Stddev	.00	.00026	.00117	.00055	.00134
%RSD	.0015	2.7221	.59309	2.9889	5.4003
#1	25.00	.00920	.19889	.01889	.02578
#2	25.00	.00956	.19723	.01811	.02389
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47592**	**.00908**	**.00512**	F **.9955**	**.00508**
Stddev	.00944	.00006	.00004	.0029	.00008
%RSD	1.9838	.67910	.85641	.2950	1.6190
#1	.46925	.00912	.00515	.9975	.00514
#2	.48260	.00903	.00509	.9934	.00502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/13/2022 15:53:56 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01986**	**.00507**	**.00891**	F **.9994**
Stddev	.00072	.00035	.00017	.0004
%RSD	3.6130	6.8590	1.8933	.0372
#1	.02037	.00483	.00879	.9997
#2	.01936	.00532	.00903	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3335.8**	**2460.1**	**24058.**	**3483.2**
Stddev	5.8	6.1	42.	13.5
%RSD	.17480	.24950	.17638	.38704
#1	3331.7	2455.8	24028.	3473.7
#2	3339.9	2464.5	24088.	3492.8

Sample Name: IDL 1 Acquired: 6/13/2022 15:57:50 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00288**	**-.00028**	**-.00121**	**-.00003**
Stddev	.00021	.00255	.00013	.00036	.00001
%RSD	64.703	88.506	46.725	29.830	23.946
#1	-.00018	.00468	-.00019	-.00146	-.00003
#2	-.00047	.00108	-.00038	-.00095	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.00045**	**.00003**	**-.0204**	**.00006**
Stddev	.00010	.00129	.00000	.0126	.00027
%RSD	2433.4	288.43	13.853	61.65	472.93
#1	-.00008	-.00047	.00003	-.0115	-.00013
#2	.00007	.00136	.00003	-.0293	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.00209**	**-.01696**	**-.02227**	**.00172**
Stddev	.00043	.00027	.00158	.02022	.00098
%RSD	105.30	12.847	9.2955	90.819	56.880
#1	-.00071	.00228	-.01807	-.00797	.00241
#2	-.00010	.00190	-.01584	-.03656	.00103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 1 Acquired: 6/13/2022 15:57:50 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**-.00015**	**-.00018**	**-.01087**	**.00018**
Stddev	.00368	.00003	.00016	.01309	.00018
%RSD	2714.1	22.578	86.909	120.46	100.07
#1	-.00247	-.00013	-.00007	-.02013	.00005
#2	.00274	-.00018	-.00029	-.00161	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00041**	**-.00582**	**-.00308**	**.00090**
Stddev	.00	.00116	.00105	.00017	.00171
%RSD	.0009	280.20	18.033	5.4603	190.07
#1	25.02	-.00123	-.00656	-.00296	-.00031
#2	25.02	.00041	-.00508	-.00320	.00211
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03737**	**-.00017**	**.00017**	**.9879**	**-.00001**
Stddev	.01103	.00031	.00008	.0019	.00007
%RSD	29.516	185.76	46.188	.1936	561.94
#1	-.04517	.00005	.00011	.9865	-.00006
#2	-.02957	-.00039	.00022	.9892	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 1 Acquired: 6/13/2022 15:57:50 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00027**	**.00017**	**-.00227**	**.9988**
Stddev	.00023	.00011	.00054	.0003
%RSD	85.458	69.543	23.839	.0290
#1	.00011	.00025	-.00189	.9986
#2	.00044	.00008	-.00265	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3332.5**	**2458.5**	**24085.**	**3404.3**
Stddev	19.9	11.2	130.	11.5
%RSD	.59789	.45543	.54141	.33767
#1	3346.6	2466.4	23993.	3396.2
#2	3318.4	2450.5	24178.	3412.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.18%	101.93%	102.32%	98.468%
Range				

Sample Name: IDL 2 Acquired: 6/13/2022 16:01:45 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**-.01309**	**.00003**	**-.00129**	**-.00001**
Stddev	.00029	.00904	.00039	.00025	.00001
%RSD	53.746	69.066	1243.1	19.501	72.438
#1	.00033	-.00670	.00030	-.00147	-.00000
#2	.00075	-.01949	-.00024	-.00111	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**-.00418**	**-.00003**	**-.0664**	**.00012**
Stddev	.00001	.00005	.00009	.0182	.00028
%RSD	604.69	1.2862	322.44	27.41	231.41
#1	-.00001	-.00415	-.00009	-.0535	.00032
#2	.00001	-.00422	.00004	-.0793	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00183**	**-.01701**	**-.01309**	**.00096**
Stddev	.00038	.00008	.00054	.06117	.00079
%RSD	375.96	4.4713	3.1901	467.44	82.346
#1	-.00037	.00177	-.01739	.03017	.00040
#2	.00017	.00188	-.01662	-.05634	.00152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 2 Acquired: 6/13/2022 16:01:45 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**-.00010**	**-.00044**	**-.01382**	**.00015**
Stddev	.00071	.00011	.00010	.01238	.00015
%RSD	125.76	110.53	21.592	89.565	95.671
#1	-.00106	-.00002	-.00051	-.00507	.00005
#2	-.00006	-.00017	-.00037	-.02257	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00066**	**-.00210**	**-.00204**	**.00115**
Stddev	.00	.00101	.00268	.00097	.00011
%RSD	.0028	153.39	127.81	47.528	9.3821
#1	25.02	.00137	-.00400	-.00136	.00122
#2	25.02	-.00006	-.00020	-.00273	.00107
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.04074**	**-.00012**	**.00007**	**.9991**	**.00009**
Stddev	.00876	.00035	.00005	.0028	.00012
%RSD	21.511	280.74	72.278	.2766	131.92
#1	-.04693	-.00037	.00004	1.001	.00001
#2	-.03454	.00012	.00011	.9972	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 2 Acquired: 6/13/2022 16:01:45 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00144**	**-.00015**	**-.00216**	**.9998**
Stddev	.00109	.00012	.00018	.0003
%RSD	75.469	77.818	8.5343	.0349
#1	.00221	-.00024	-.00229	.9995
#2	.00067	-.00007	-.00203	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3319.3**	**2451.5**	**23692.**	**3410.0**
Stddev	8.0	4.6	19.	16.0
%RSD	.24050	.18879	.07967	.46954
#1	3325.0	2454.8	23678.	3398.6
#2	3313.7	2448.2	23705.	3421.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.78%	101.64%	100.65%	98.631%
Range				

Sample Name: IDL 3 Acquired: 6/13/2022 16:05:40 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00070**	**.00361**	**.00037**	**-.00119**	**-.00002**
Stddev	.00013	.03559	.00082	.00050	.00000
%RSD	18.794	987.20	219.98	42.145	5.9874
#1	-.00079	-.02156	-.00021	-.00154	-.00002
#2	-.00061	.02877	.00095	-.00083	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00258**	**-.00016**	**-.0201**	**.00005**
Stddev	.00005	.00168	.00011	.0093	.00027
%RSD	221.59	65.277	65.757	46.49	555.84
#1	-.00006	-.00139	-.00023	-.0135	.00024
#2	.00001	-.00376	-.00009	-.0267	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**.00251**	**-.01624**	**-.03744**	**.00037**
Stddev	.00016	.00031	.00029	.01355	.00122
%RSD	30.856	12.297	1.7979	36.200	329.58
#1	-.00041	.00273	-.01645	-.04702	-.00049
#2	-.00064	.00230	-.01604	-.02786	.00124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 3 Acquired: 6/13/2022 16:05:40 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00093**	**-.00010**	**-.00027**	**-.00708**	**.00022**
Stddev	.00299	.00007	.00014	.00336	.00006
%RSD	319.78	69.154	51.681	47.407	28.413
#1	-.00305	-.00005	-.00037	-.00945	.00017
#2	.00118	-.00014	-.00017	-.00471	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00031**	**-.00337**	**-.00281**	**-.00077**
Stddev	.00	.00021	.00107	.00092	.00231
%RSD	.0063	66.275	31.723	32.905	299.40
#1	25.02	.00046	-.00412	-.00215	-.00240
#2	25.01	.00017	-.00261	-.00346	.00086
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.06346**	**-.00043**	**.00013**	**1.000**	**-.00050**
Stddev	.00728	.00058	.00022	.008	.00014
%RSD	11.475	135.50	169.35	.7964	26.915
#1	-.05831	-.00084	.00028	.9945	-.00060
#2	-.06861	-.00002	-.00003	1.006	-.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 3 Acquired: 6/13/2022 16:05:40 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00014**	**-.00031**	**-.00253**	**.9997**
Stddev	.00025	.00038	.00020	.0001
%RSD	174.02	123.50	7.9806	.0065
#1	-.00003	-.00057	-.00267	.9998
#2	.00032	-.00004	-.00239	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3365.0**	**2485.2**	**23977.**	**3468.4**
Stddev	1.6	3.0	108.	13.6
%RSD	.04894	.11968	.45242	.39158
#1	3366.1	2487.3	24054.	3458.8
#2	3363.8	2483.1	23900.	3478.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.18%	103.04%	101.86%	100.32%
Range				

Sample Name: IDL 4 Acquired: 6/13/2022 16:09:35 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.01066**	**.00022**	**-.00123**	**-.00002**
Stddev	.00037	.00884	.00027	.00029	.00000
%RSD	337.06	82.945	123.91	23.197	26.218
#1	.00037	-.01692	.00041	-.00143	-.00001
#2	-.00015	-.00441	.00003	-.00103	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**-.00306**	**-.00005**	**-.0098**	**.00020**
Stddev	.00011	.00258	.00005	.0272	.00000
%RSD	12415.	84.427	88.218	278.0	.45194
#1	.00008	-.00488	-.00002	.0094	.00019
#2	-.00008	-.00123	-.00008	-.0290	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00047**	**-.01610**	**-.02306**	**.00138**
Stddev	.00005	.00003	.00011	.00356	.00073
%RSD	21.084	5.5369	.66020	15.421	53.203
#1	-.00019	.00049	-.01618	-.02557	.00086
#2	-.00026	.00045	-.01603	-.02055	.00190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 4 Acquired: 6/13/2022 16:09:35 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**-.00017**	**-.00010**	**-.00298**	**-.00018**
Stddev	.00589	.00003	.00000	.00221	.00015
%RSD	1629.2	15.729	2.4395	73.980	85.305
#1	.00453	-.00015	-.00010	-.00454	-.00007
#2	-.00380	-.00019	-.00010	-.00142	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00072**	**-.00703**	**.00016**	**-.00142**
Stddev	.00	.00030	.00069	.00019	.00205
%RSD	.0040	41.543	9.8640	117.00	144.22
#1	25.01	.00093	-.00752	.00003	-.00287
#2	25.02	.00051	-.00654	.00030	.00003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03465**	**-.00043**	**.00001**	**.9954**	**.00001**
Stddev	.00567	.00026	.00011	.0033	.00005
%RSD	16.356	60.281	1221.7	.3335	399.71
#1	-.03065	-.00025	-.00007	.9977	-.00002
#2	-.03866	-.00062	.00008	.9930	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 4 Acquired: 6/13/2022 16:09:35 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00083**	**.00022**	**-.00210**	**.9991**
Stddev	.00121	.00012	.00025	.0002
%RSD	146.19	54.362	12.056	.0199
#1	.00168	.00030	-.00192	.9990
#2	-.00003	.00013	-.00228	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3347.0**	**2472.8**	**23982.**	**3522.4**
Stddev	2.6	2.2	70.	3.0
%RSD	.07793	.08781	.29083	.08477
#1	3345.1	2471.2	23932.	3520.3
#2	3348.8	2474.3	24031.	3524.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.62%	102.52%	101.88%	101.88%
Range				

Sample Name: IDL 5 Acquired: 6/13/2022 16:13:30 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.00564**	**-.00055**	**-.00116**	**-.00002**
Stddev	.00082	.01749	.00122	.00030	.00002
%RSD	273.05	310.11	223.35	26.292	87.895
#1	-.00028	.01801	.00032	-.00137	-.00004
#2	.00088	-.00673	-.00141	-.00094	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.00341**	**-.00004**	**-.0337**	**.00023**
Stddev	.00001	.00080	.00017	.0060	.00002
%RSD	35.704	23.480	424.81	17.86	9.3839
#1	-.00005	-.00284	-.00016	-.0379	.00024
#2	-.00003	-.00397	.00008	-.0294	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**.00129**	**-.01546**	**-.03158**	**.00079**
Stddev	.00041	.00060	.00066	.02173	.00064
%RSD	79.161	46.876	4.2874	68.821	80.481
#1	-.00081	.00171	-.01499	-.04694	.00034
#2	-.00023	.00086	-.01593	-.01621	.00124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 5 Acquired: 6/13/2022 16:13:30 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00111**	**-.00010**	**-.00033**	**-.01714**	**-.00011**
Stddev	.00149	.00001	.00014	.00942	.00022
%RSD	134.05	7.6808	40.829	54.948	207.79
#1	-.00006	-.00010	-.00024	-.02380	.00005
#2	-.00217	-.00009	-.00043	-.01048	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00011**	**-.00807**	**-.00288**	**.00049**
Stddev	.00	.00201	.00104	.00126	.00103
%RSD	.0020	1777.7	12.915	43.667	212.33
#1	25.02	.00131	-.00880	-.00377	.00122
#2	25.02	-.00153	-.00733	-.00199	-.00024
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03850**	**-.00016**	**.00003**	**.9998**	**.00002**
Stddev	.01006	.00002	.00018	.0081	.00036
%RSD	26.122	10.842	662.76	.8061	1759.7
#1	-.03138	-.00015	.00016	.9941	-.00023
#2	-.04561	-.00017	-.00010	1.006	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 5 Acquired: 6/13/2022 16:13:30 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00001**	**-.00256**	**.9991**
Stddev	.00080	.00009	.00027	.0011
%RSD	6449.7	972.92	10.700	.1146
#1	.00058	-.00007	-.00237	.9999
#2	-.00055	.00005	-.00276	.9983
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3358.7**	**2477.0**	**24045.**	**3419.1**
Stddev	3.0	2.7	111.	63.4
%RSD	.09014	.11041	.46098	1.8555
#1	3356.6	2475.0	23967.	3374.2
#2	3360.8	2478.9	24124.	3463.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.98%	102.69%	102.15%	98.894%
Range				

Sample Name: IDL 6 Acquired: 6/13/2022 16:17:25 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**-.00184**	**-.00008**	**-.00111**	**.00000**
Stddev	.00062	.02052	.00041	.00003	.00003
%RSD	261.99	1114.4	498.46	2.3737	649.75
#1	-.00068	-.01635	.00021	-.00113	-.00002
#2	.00020	.01267	-.00037	-.00110	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00199**	**.00008**	**-.0436**	**.00008**
Stddev	.00007	.00578	.00008	.0471	.00003
%RSD	390.65	290.02	96.044	108.1	39.702
#1	-.00007	-.00608	.00003	-.0769	.00010
#2	.00003	.00209	.00013	-.0103	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00011**	**-.01447**	**-.05927**	**.00163**
Stddev	.00029	.00040	.00150	.00705	.00032
%RSD	647.05	377.54	10.356	11.902	19.736
#1	-.00016	.00039	-.01553	-.06426	.00140
#2	.00025	-.00018	-.01341	-.05428	.00186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 6 Acquired: 6/13/2022 16:17:25 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00016**	**-.00045**	**-.00734**	**.00015**
Stddev	.00127	.00002	.00006	.01386	.00012
%RSD	951.53	15.333	14.543	188.89	80.107
#1	-.00077	-.00014	-.00049	-.01713	.00023
#2	.00103	-.00018	-.00040	.00246	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00052**	**-.00830**	**-.00223**	**.00016**
Stddev	.00	.00067	.00057	.00053	.00214
%RSD	.0037	128.37	6.9213	23.577	1377.8
#1	25.02	-.00100	-.00870	-.00260	-.00136
#2	25.02	-.00005	-.00789	-.00186	.00167
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03409**	**-.00031**	**.00006**	**.9992**	**-.00018**
Stddev	.01977	.00005	.00009	.0059	.00018
%RSD	57.988	16.075	152.23	.5947	104.08
#1	-.02011	-.00028	-.00000	.9950	-.00005
#2	-.04807	-.00035	.00012	1.003	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 6 Acquired: 6/13/2022 16:17:25 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00080**	**-.00023**	**-.00236**	**.9991**
Stddev	.00174	.00012	.00048	.0009
%RSD	217.44	51.351	20.315	.0913
#1	.00203	-.00031	-.00202	.9985
#2	-.00043	-.00015	-.00269	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3326.4**	**2453.4**	**23810.**	**3400.3**
Stddev	6.6	.5	28.	21.3
%RSD	.19981	.02219	.11852	.62552
#1	3321.7	2453.1	23790.	3385.2
#2	3331.1	2453.8	23830.	3415.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.99%	101.72%	101.15%	98.351%
Range				

Sample Name: IDL 7 Acquired: 6/13/2022 16:21:20 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**-.00971**	**-.00051**	**-.00122**	**-.00003**
Stddev	.00023	.02178	.00143	.00015	.00001
%RSD	326.53	224.37	280.78	12.192	41.965
#1	.00009	-.02511	.00050	-.00133	-.00003
#2	-.00023	.00569	-.00152	-.00112	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00364**	**-.00012**	**-.0389**	**.00010**
Stddev	.00005	.00374	.00025	.0032	.00012
%RSD	59.797	102.66	217.59	8.185	124.95
#1	-.00005	-.00628	.00006	-.0412	.00018
#2	-.00011	-.00100	-.00029	-.0367	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.00230**	**-.01388**	**-.05685**	**.00054**
Stddev	.00012	.00065	.00002	.00014	.00054
%RSD	26.629	28.354	.12095	.24850	100.72
#1	-.00036	.00184	-.01387	-.05675	.00092
#2	-.00053	.00277	-.01389	-.05695	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 7 Acquired: 6/13/2022 16:21:20 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00016**	**-.00000**	**-.00579**	**.00030**
Stddev	.00386	.00003	.00006	.00872	.00020
%RSD	29341.	19.304	2268.9	150.68	65.382
#1	-.00271	-.00019	-.00004	.00038	.00044
#2	.00274	-.00014	.00004	-.01196	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00008**	**-.01242**	**-.00226**	**.00298**
Stddev	.00	.00021	.00117	.00067	.00093
%RSD	.0022	275.03	9.3870	29.545	31.358
#1	25.02	-.00023	-.01325	-.00273	.00232
#2	25.02	.00007	-.01160	-.00178	.00364
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.04922**	**-.00090**	**.00006**	**1.001**	**.00005**
Stddev	.00101	.00028	.00008	.002	.00061
%RSD	2.0507	30.822	146.24	.2348	1232.3
#1	-.04851	-.00070	-.00000	1.002	-.00038
#2	-.04994	-.00110	.00011	.9990	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 7 Acquired: 6/13/2022 16:21:20 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00059**	**.00027**	**-.00243**	**.9998**
Stddev	.00147	.00000	.00015	.0003
%RSD	250.97	.49402	6.0829	.0336
#1	-.00045	.00027	-.00232	1.000
#2	.00162	.00026	-.00253	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3346.6**	**2460.2**	**24105.**	**3442.6**
Stddev	.6	1.0	20.	8.5
%RSD	.01932	.04074	.08272	.24676
#1	3347.0	2459.5	24119.	3436.6
#2	3346.1	2460.9	24091.	3448.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.61%	102.00%	102.40%	99.577%
Range				

Sample Name: MB 480-629284/1-A Acquired: 6/13/2022 16:25:16 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**-.02044**	**-.00209**	**-.00084**	**.00001**
Stddev	.00019	.00858	.00003	.00004	.00005
%RSD	132.00	41.967	1.1968	4.8399	543.62
#1	.00001	-.01437	-.00211	-.00081	-.00003
#2	.00028	-.02650	-.00207	-.00087	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00833**	**.00004**	**-.0051**	**.00008**
Stddev	.00003	.00007	.00001	.0252	.00007
%RSD	25.323	.83486	15.559	496.2	84.146
#1	-.00009	.00838	.00003	.0127	.00003
#2	-.00012	.00828	.00004	-.0229	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00240**	**-.01249**	**-.02905**	**.00086**
Stddev	.00031	.00004	.00030	.02290	.00018
%RSD	2557.1	1.4632	2.3999	78.813	21.159
#1	.00021	.00242	-.01228	-.01286	.00073
#2	-.00023	.00238	-.01270	-.04525	.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629284/1-A Acquired: 6/13/2022 16:25:16 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**-.00004**	**-.00028**	**-.01050**	**.00021**
Stddev	.00492	.00001	.00026	.01041	.00020
%RSD	641.20	21.748	95.175	99.140	96.831
#1	-.00424	-.00003	-.00009	-.00314	.00035
#2	.00271	-.00004	-.00046	-.01787	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00029**	**-.00530**	**-.00275**	**.00088**
Stddev	.00	.00014	.00151	.00022	.00033
%RSD	.0040	46.056	28.577	8.0541	37.277
#1	25.02	-.00039	-.00423	-.00290	.00065
#2	25.02	-.00020	-.00637	-.00259	.00111
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.04030**	**-.00014**	**.00013**	**1.000**	**-.00000**
Stddev	.02944	.00030	.00003	.008	.00090
%RSD	73.054	214.06	20.729	.7658	50349.
#1	-.06111	.00007	.00012	.9946	-.00064
#2	-.01948	-.00035	.00015	1.005	.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629284/1-A Acquired: 6/13/2022 16:25:16 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00033**	**-.00003**	**-.00147**	**.9991**
Stddev	.00080	.00018	.00013	.0008
%RSD	242.92	517.46	8.9561	.0753
#1	-.00090	-.00016	-.00156	.9996
#2	.00024	.00009	-.00137	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3402.0**	**2490.5**	**23927.**	**3453.9**
Stddev	55.3	39.8	145.	8.2
%RSD	1.6259	1.5974	.60737	.23600
#1	3362.9	2462.4	24030.	3448.1
#2	3441.1	2518.6	23824.	3459.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	104.31%	103.26%	101.65%	99.901%
Range				

Sample Name: LCS 480-629284/2-A Acquired: 6/13/2022 16:29:10 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04829**	**9.5552**	**.19327**	**.18985**	**.20382**
Stddev	.00122	.0512	.00060	.00041	.00018
%RSD	2.5313	.53531	.31115	.21595	.08941
#1	.04742	9.5190	.19369	.18956	.20369
#2	.04915	9.5914	.19284	.19014	.20395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19807**	**9.4341**	**.19072**	**-.0268**	**.19031**
Stddev	.00026	.0006	.00034	.0360	.00019
%RSD	.13169	.00600	.17638	134.7	.09896
#1	.19826	9.4345	.19048	-.0013	.19017
#2	.19789	9.4337	.19096	-.0522	.19044
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19577**	**.19518**	**9.6982**	**8.7968**	**.18143**
Stddev	.00084	.00060	.0082	.0633	.00004
%RSD	.42936	.30515	.08465	.71932	.02429
#1	.19518	.19476	9.6924	8.8415	.18140
#2	.19636	.19560	9.7041	8.7520	.18146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629284/2-A Acquired: 6/13/2022 16:29:10 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.057**	**.19421**	**.19813**	**8.8874**	**.18702**
Stddev	.009	.00012	.00037	.0073	.00085
%RSD	.08996	.06096	.18520	.08232	.45360
#1	10.050	.19413	.19839	8.8926	.18642
#2	10.063	.19430	.19787	8.8822	.18762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.73**	**.19018**	**9.5044**	**.19798**	**.19267**
Stddev	.00	.00088	.0031	.00010	.00048
%RSD	.0045	.46180	.03252	.04957	.24879
#1	24.73	.18956	9.5066	.19791	.19233
#2	24.73	.19080	9.5022	.19805	.19301
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.6510**	F **.23025**	**.18982**	**1.000**	**.19447**
Stddev	.0142	.00047	.00017	.000	.00019
%RSD	.16384	.20255	.09105	.0283	.09925
#1	8.6610	.23058	.18970	1.000	.19433
#2	8.6409	.22992	.18995	1.000	.19460
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: LCS 480-629284/2-A Acquired: 6/13/2022 16:29:10 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19443**	**.19188**	**.19277**	**.9994**
Stddev	.00094	.00047	.00089	.0009
%RSD	.48296	.24305	.46210	.0941
#1	.19510	.19221	.19214	.9988
#2	.19377	.19155	.19339	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3195.7**	**2458.5**	**23784.**	**3574.1**
Stddev	2.2	.5	35.	8.6
%RSD	.06828	.02185	.14597	.23956
#1	3194.1	2458.1	23809.	3568.1
#2	3197.2	2458.9	23759.	3580.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.985%	101.93%	101.04%	103.38%
Range				

Sample Name: CCV-7018483 Acquired: 6/13/2022 16:32:56 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97641**	**48.180**	**.97794**	**.98170**	**.95895**
Stddev	.00069	.004	.00135	.00374	.00458
%RSD	.07054	.00912	.13794	.38110	.47733
#1	.97592	48.183	.97699	.97906	.96219
#2	.97690	48.177	.97890	.98435	.95571
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96436**	**48.261**	**.97401**	**.9419**	**.96691**
Stddev	.00260	.021	.00129	.0073	.00050
%RSD	.26998	.04261	.13273	.7724	.05198
#1	.96620	48.276	.97310	.9471	.96655
#2	.96252	48.247	.97493	.9368	.96726
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99693**	**.96913**	**49.085**	**46.765**	**.94187**
Stddev	.00056	.00278	.141	.095	.00439
%RSD	.05606	.28652	.28788	.20419	.46599
#1	.99732	.97110	49.185	46.833	.94498
#2	.99653	.96717	48.985	46.698	.93877
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/13/2022 16:32:56 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.880**	**.98174**	**.97723**	**47.246**	**.97313**
Stddev	.084	.00019	.00084	.166	.00115
%RSD	.16754	.01970	.08577	.35121	.11850
#1	49.821	.98160	.97664	47.364	.97395
#2	49.939	.98187	.97782	47.129	.97232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.35**	**.97556**	**24.369**	**.96640**	**.97169**
Stddev	.01	.00393	.051	.00004	.00351
%RSD	.0386	.40315	.20723	.00447	.36100
#1	37.34	.97835	24.333	.96643	.97417
#2	37.36	.97278	24.404	.96637	.96921
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5856**	**.97168**	**.94196**	**1.487**	**.98225**
Stddev	.0032	.00149	.00339	.006	.00016
%RSD	.03358	.15291	.35964	.4312	.01599
#1	9.5833	.97063	.94435	1.492	.98236
#2	9.5878	.97273	.93956	1.483	.98214
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/13/2022 16:32:56 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.98330**	**.98749**	**1.0236**	**1.480**
Stddev	.00268	.00179	.0025	.000
%RSD	.27238	.18148	.24800	.0066
#1	.98520	.98622	1.0254	1.480
#2	.98141	.98875	1.0218	1.480
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2887.0**	**2370.1**	**22230.**	**3350.4**
Stddev	3.5	.4	44.	14.9
%RSD	.12051	.01861	.19825	.44480
#1	2884.6	2369.8	22261.	3360.9
#2	2889.5	2370.4	22199.	3339.9

Sample Name: CCB-7026764 Acquired: 6/13/2022 16:36:37 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**-.01444**	**.00036**	**.00009**	**-.00000**
Stddev	.00040	.01778	.00133	.00050	.00002
%RSD	138.43	123.14	363.56	572.84	359.67
#1	-.00001	-.02700	.00130	.00044	.00001
#2	-.00058	-.00187	-.00057	-.00027	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00235**	**.00003**	**-.0299**	**.00011**
Stddev	.00001	.00380	.00007	.0166	.00006
%RSD	39.308	161.56	244.97	55.46	53.846
#1	.00004	.00034	-.00002	-.0417	.00015
#2	.00002	-.00504	.00008	-.0182	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00108**	**-.01509**	**-.01920**	**.00013**
Stddev	.00049	.00011	.00099	.03672	.00064
%RSD	270.62	9.8858	6.5935	191.24	492.56
#1	-.00052	.00100	-.01579	.00676	-.00032
#2	.00016	.00115	-.01439	-.04517	.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/13/2022 16:36:37 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00181**	**-.00014**	**.00012**	**-.00656**	**.00013**
Stddev	.00195	.00001	.00016	.00407	.00011
%RSD	107.88	4.4798	132.73	62.056	87.367
#1	-.00043	-.00013	.00001	-.00944	.00021
#2	-.00319	-.00014	.00023	-.00368	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00026**	**-.01196**	**-.00222**	**-.00160**
Stddev	.00	.00027	.00244	.00136	.00147
%RSD	.0020	101.30	20.387	61.302	91.637
#1	25.02	-.00007	-.01369	-.00126	-.00056
#2	25.02	-.00045	-.01024	-.00318	-.00264
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03156**	**-.00032**	**.00006**	**.9964**	**.00021**
Stddev	.00122	.00075	.00012	.0040	.00010
%RSD	3.8698	235.13	186.14	.4057	48.903
#1	-.03242	-.00085	.00014	.9936	.00014
#2	-.03069	.00021	-.00002	.9993	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/13/2022 16:36:37 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00092**	**.00006**	**-.00240**	**.9991**
Stddev	.00244	.00019	.00020	.0006
%RSD	266.35	316.16	8.2340	.0628
#1	-.00081	.00019	-.00254	.9987
#2	.00265	-.00007	-.00226	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3318.3**	**2449.4**	**23627.**	**3365.8**
Stddev	17.1	13.0	68.	.8
%RSD	.51532	.52932	.28817	.02321
#1	3306.2	2440.3	23675.	3365.2
#2	3330.4	2458.6	23579.	3366.3

Sample Name: CCVL-7028546 Acquired: 6/13/2022 16:40:34 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00576**	**.17943**	**.01430**	**.01935**	**.00213**
Stddev	.00086	.00461	.00005	.00015	.00002
%RSD	14.889	2.5670	.36657	.79764	.95628
#1	.00516	.18268	.01433	.01924	.00212
#2	.00637	.17617	.01426	.01946	.00214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00200**	**.48834**	**.00202**	**-.0176**	**.00386**
Stddev	.00005	.00184	.00016	.0160	.00020
%RSD	2.5184	.37619	8.1661	90.56	5.2105
#1	.00204	.48964	.00213	-.0063	.00400
#2	.00197	.48704	.00190	-.0289	.00372
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00360**	W **.01306**	**.03592**	**.42807**	**.02690**
Stddev	.00001	.00074	.00134	.02889	.00052
%RSD	.34966	5.6589	3.7397	6.7480	1.9311
#1	.00361	.01254	.03687	.40764	.02726
#2	.00359	.01358	.03497	.44849	.02653
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value		.01000			
Range		30.000%			

Sample Name: CCVL-7028546 Acquired: 6/13/2022 16:40:34 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19233**	**.00319**	**.01027**	**.90096**	**.00966**
Stddev	.00050	.00002	.00008	.00452	.00008
%RSD	.26026	.56858	.79085	.50193	.81009
#1	.19197	.00318	.01033	.90416	.00960
#2	.19268	.00320	.01022	.89776	.00971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00915**	**.18446**	**.01652**	**.02439**
Stddev	.00	.00044	.00133	.00160	.00216
%RSD	.0032	4.7598	.72147	9.6568	8.8584
#1	25.00	.00885	.18352	.01540	.02287
#2	25.00	.00946	.18540	.01765	.02592
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.42394**	**.00884**	**.00500**	F **.9965**	**.00474**
Stddev	.00263	.00052	.00010	.0002	.00041
%RSD	.62035	5.9285	1.9287	.0207	8.6060
#1	.42580	.00847	.00507	.9967	.00446
#2	.42208	.00921	.00493	.9964	.00503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/13/2022 16:40:34 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02009**	**.00447**	**.00825**	F **.9995**
Stddev	.00046	.00026	.00016	.0000
%RSD	2.2831	5.7657	1.9183	.0002
#1	.02041	.00429	.00814	.9995
#2	.01977	.00465	.00836	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3403.0**	**2513.2**	**24782.**	**3602.9**
Stddev	2.1	1.3	86.	39.2
%RSD	.06175	.05342	.34845	1.0871
#1	3404.5	2514.2	24721.	3575.2
#2	3401.5	2512.3	24843.	3630.6

Sample Name: 480-198665-A-1-A Acquired: 6/13/2022 16:44:30 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**-.00168**	**.00028**	**.03048**	**.03052**
Stddev	.00078	.00570	.00059	.00027	.00018
%RSD	103.55	339.76	212.76	.89179	.58721
#1	-.00131	.00235	-.00014	.03067	.03065
#2	-.00020	-.00571	.00070	.03029	.03040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**100.99**	**.00054**	**-.0420**	**.00012**
Stddev	.00009	.41	.00018	.0170	.00017
%RSD	609.80	.41070	32.644	40.49	142.28
#1	-.00005	101.29	.00042	-.0540	-.00000
#2	.00008	100.70	.00067	-.0299	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00514**	**-.00159**	**2.2693**	**.01419**
Stddev	.00003	.00072	.00150	.0415	.00011
%RSD	13.573	14.105	94.271	1.8285	.75971
#1	.00022	.00462	-.00265	2.2400	.01426
#2	.00026	.00565	-.00053	2.2987	.01411
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-1-A Acquired: 6/13/2022 16:44:30 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.046**	**.00283**	**.00367**	**4.3773**	**.00230**
Stddev	.200	.00006	.00004	.0167	.00026
%RSD	.39086	2.0683	1.2009	.38195	11.084
#1	51.187	.00278	.00364	4.3891	.00248
#2	50.905	.00287	.00370	4.3655	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00050**	**41.675**	**-.00150**	**.00016**
Stddev	.00	.00086	.067	.00063	.00147
%RSD	.0061	171.93	.16107	41.743	911.68
#1	25.04	-.00011	41.723	-.00106	.00120
#2	25.04	.00110	41.628	-.00194	-.00088
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.2563**	**-.00062**	**.49897**	**.9890**	**.00050**
Stddev	.0308	.00028	.00334	.0008	.00003
%RSD	.72388	44.799	.66883	.0768	6.5026
#1	4.2781	-.00081	.50133	.9885	.00053
#2	4.2346	-.00042	.49661	.9896	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-1-A Acquired: 6/13/2022 16:44:30 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00012**	**-.00091**	**.00505**	**.9990**
Stddev	.00025	.00021	.00032	.0003
%RSD	203.89	23.211	6.3915	.0349
#1	-.00005	-.00106	.00528	.9992
#2	.00030	-.00076	.00482	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3030.8**	**2367.7**	**23212.**	**3436.8**
Stddev	12.8	9.1	51.	6.8
%RSD	.42140	.38618	.21870	.19748
#1	3039.8	2374.2	23176.	3441.6
#2	3021.7	2361.2	23248.	3432.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.928%	98.165%	98.609%	99.408%
Range				

Sample Name: 480-198665-A-1-ASD@5 Acquired: 6/13/2022 16:48:22 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.02205**	**-.00058**	**.00507**	**.00649**
Stddev	.00102	.02296	.00212	.00026	.00004
%RSD	1044.6	104.15	366.50	5.1017	.69225
#1	-.00082	.03828	.00092	.00488	.00653
#2	.00062	.00581	-.00208	.00525	.00646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**20.056**	**.00021**	**-.0392**	**.00006**
Stddev	.00001	.177	.00000	.0060	.00008
%RSD	65.491	.88181	2.1166	15.28	141.92
#1	.00003	20.181	.00021	-.0349	-.00000
#2	.00001	19.931	.00021	-.0434	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00194**	**-.01406**	**.39116**	**.00239**
Stddev	.00036	.00060	.00045	.03358	.00130
%RSD	210.83	30.882	3.2310	8.5840	54.510
#1	-.00042	.00152	-.01438	.41490	.00331
#2	.00008	.00237	-.01373	.36742	.00147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-1-ASD@5 Acquired: 6/13/2022 16:48:22 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.199**	**.00044**	**.00066**	**.82964**	**.00041**
Stddev	.030	.00000	.00016	.01114	.00002
%RSD	.29423	.11667	23.654	1.3429	4.9907
#1	10.220	.00044	.00055	.83751	.00039
#2	10.178	.00044	.00077	.82176	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00070**	**7.9976**	**-.00246**	**.00334**
Stddev	.00	.00067	.0095	.00167	.00068
%RSD	.0066	96.467	.11825	67.924	20.260
#1	25.02	.00117	7.9909	-.00365	.00382
#2	25.02	.00022	8.0043	-.00128	.00286
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.79245**	**-.00117**	**.09953**	**.9962**	**.00034**
Stddev	.01040	.00027	.00066	.0100	.00005
%RSD	1.3127	23.080	.66772	1.005	13.509
#1	.78510	-.00136	.10000	.9891	.00038
#2	.79981	-.00098	.09906	1.003	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-1-ASD@5 Acquired: 6/13/2022 16:48:22 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00080**	**-.00052**	**-.00101**	**.9994**
Stddev	.00010	.00035	.00001	.0002
%RSD	12.157	67.113	.70148	.0249
#1	.00087	-.00027	-.00102	.9996
#2	.00073	-.00076	-.00101	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3212.3**	**2424.7**	**23421.**	**3411.6**
Stddev	2.1	2.8	75.	34.6
%RSD	.06596	.11652	.32178	1.0142
#1	3210.8	2422.7	23367.	3387.1
#2	3213.8	2426.7	23474.	3436.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.494%	100.53%	99.495%	98.678%
Range				

Sample Name: 480-198665-A-1-APDS Acquired: 6/13/2022 16:52:14 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05133**	**9.9820**	**.21537**	**.23484**	**.24071**
Stddev	.00140	.0898	.00050	.00071	.00054
%RSD	2.7274	.89994	.23143	.30095	.22279
#1	.05232	9.9184	.21572	.23534	.24109
#2	.05034	10.045	.21502	.23434	.24033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20667**	**104.88**	**.20636**	**-.0478**	**.20349**
Stddev	.00016	.13	.00044	.0255	.00032
%RSD	.07854	.11986	.21143	53.43	.15644
#1	.20679	104.97	.20605	-.0297	.20326
#2	.20656	104.80	.20667	-.0658	.20371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20617**	**.21314**	**9.9915**	**11.705**	**.20849**
Stddev	.00004	.00119	.0007	.045	.00044
%RSD	.02049	.55710	.00703	.38257	.21135
#1	.20614	.21398	9.9910	11.737	.20818
#2	.20620	.21230	9.9920	11.673	.20880
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-1-APDS Acquired: 6/13/2022 16:52:14 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**60.638**	**.20864**	**.21385**	**13.749**	**.20112**
Stddev	.101	.00019	.00013	.012	.00057
%RSD	.16633	.09102	.06191	.09047	.28095
#1	60.566	.20851	.21376	13.758	.20072
#2	60.709	.20877	.21395	13.740	.20152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.74**	**.20656**	**51.392**	**.21745**	**.20537**
Stddev	.00	.00083	.031	.00088	.00100
%RSD	.0044	.40170	.05987	.40420	.48897
#1	24.74	.20715	51.370	.21807	.20466
#2	24.74	.20598	51.414	.21683	.20608
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.860**	**.20373**	**.67430**	**.9942**	**.20666**
Stddev	.043	.00030	.00333	.0073	.00069
%RSD	.30693	.14615	.49331	.7345	.33169
#1	13.890	.20394	.67665	.9890	.20715
#2	13.829	.20352	.67195	.9993	.20618
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-1-APDS Acquired: 6/13/2022 16:52:14 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21079**	**.20413**	**.20425**	**1.001**
Stddev	.00210	.00039	.00153	.000
%RSD	.99765	.19102	.74740	.0002
#1	.21228	.20385	.20317	1.001
#2	.20930	.20441	.20533	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2976.5**	**2382.8**	**23310.**	**3657.4**
Stddev	3.5	2.5	115.	1.5
%RSD	.11848	.10289	.49430	.04028
#1	2979.0	2384.5	23391.	3656.4
#2	2974.0	2381.1	23228.	3658.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.265%	98.792%	99.025%	105.79%
Range				

Sample Name: 480-198665-A-1-B MS Acquired: 6/13/2022 16:55:57 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04999**	**9.5818**	**.19903**	**.22478**	**.23469**
Stddev	.00014	.0529	.00193	.00036	.00031
%RSD	.27965	.55197	.97115	.16222	.13411
#1	.04989	9.6192	.20039	.22452	.23491
#2	.05009	9.5444	.19766	.22503	.23447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19558**	**107.93**	**.19469**	**-.0467**	**.19283**
Stddev	.00094	.46	.00041	.0206	.00008
%RSD	.47946	.42310	.21100	44.00	.04280
#1	.19624	108.25	.19440	-.0613	.19289
#2	.19492	107.61	.19498	-.0322	.19277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19271**	**.19953**	**9.5612**	**11.276**	**.20055**
Stddev	.00051	.00105	.0469	.007	.00017
%RSD	.26508	.52844	.49018	.06550	.08436
#1	.19235	.20028	9.5944	11.271	.20043
#2	.19307	.19879	9.5281	11.282	.20067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-1-B MS Acquired: 6/13/2022 16:55:57 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**62.225**	**.19184**	**.20270**	**13.408**	**.19077**
Stddev	.008	.00007	.00012	.043	.00028
%RSD	.01324	.03509	.05697	.31698	.14520
#1	62.231	.19189	.20262	13.438	.19057
#2	62.219	.19180	.20278	13.378	.19096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.76**	**.19462**	**52.306**	**.20198**	**.19695**
Stddev	.00	.00024	.120	.00143	.00186
%RSD	.0057	.12150	.22987	.70907	.94349
#1	24.76	.19479	52.391	.20097	.19563
#2	24.76	.19446	52.221	.20299	.19826
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.196**	**.23960**	**.67551**	**1.001**	**.19673**
Stddev	.053	.00069	.00098	.002	.00011
%RSD	.40198	.28612	.14470	.2190	.05813
#1	13.234	.23911	.67620	1.003	.19681
#2	13.159	.24008	.67481	.9996	.19664
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-1-B MS Acquired: 6/13/2022 16:55:57 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19438**	**.19349**	**.20914**	**.9996**
Stddev	.00005	.00063	.00166	.0021
%RSD	.02447	.32355	.79332	.2120
#1	.19442	.19393	.21032	1.001
#2	.19435	.19305	.20797	.9981
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2979.4**	**2386.3**	**23153.**	**3629.8**
Stddev	9.2	7.4	.	17.4
%RSD	.30960	.30830	.00077	.48012
#1	2986.0	2391.5	23153.	3617.4
#2	2972.9	2381.1	23153.	3642.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.355%	98.936%	98.357%	104.99%
Range				

Sample Name: 480-198665-A-1-C MSD Acquired: 6/13/2022 16:59:41 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04843**	**9.4747**	**.19584**	**.22031**	**.23070**
Stddev	.00014	.0037	.00221	.00056	.00009
%RSD	.29922	.03868	1.1291	.25299	.04082
#1	.04853	9.4773	.19741	.22070	.23063
#2	.04833	9.4721	.19428	.21991	.23077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19325**	**107.45**	**.19124**	**-.0145**	**.18885**
Stddev	.00122	.31	.00002	.0139	.00001
%RSD	.63265	.28957	.01287	96.01	.00456
#1	.19412	107.67	.19126	-.0046	.18884
#2	.19239	107.23	.19122	-.0243	.18886
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19068**	**.19453**	**9.4492**	**11.167**	**.19854**
Stddev	.00102	.00053	.0027	.045	.00199
%RSD	.53426	.27472	.02811	.39907	1.0041
#1	.18996	.19415	9.4511	11.198	.19995
#2	.19140	.19491	9.4473	11.135	.19713
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-1-C MSD Acquired: 6/13/2022 16:59:41 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**61.597**	**.18991**	**.19839**	**13.234**	**.18679**
Stddev	.197	.00030	.00037	.077	.00041
%RSD	.31932	.15715	.18682	.58277	.21809
#1	61.458	.18970	.19866	13.288	.18651
#2	61.736	.19012	.19813	13.179	.18708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.76**	**.19104**	**51.072**	**.19914**	**.18750**
Stddev	.00	.00084	.065	.00182	.00257
%RSD	.0023	.43723	.12781	.91484	1.3694
#1	24.76	.19163	51.119	.20043	.18932
#2	24.76	.19045	51.026	.19785	.18568
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.770**	**.23105**	**.66804**	**.9993**	**.19465**
Stddev	.056	.00092	.00393	.0041	.00056
%RSD	.44019	.39860	.58761	.4146	.28550
#1	12.810	.23170	.67082	1.002	.19426
#2	12.730	.23040	.66526	.9964	.19504
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-1-C MSD Acquired: 6/13/2022 16:59:41 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19146**	**.19114**	**.19454**	**.9993**
Stddev	.00086	.00034	.00015	.0007
%RSD	.45012	.17675	.07697	.0674
#1	.19085	.19138	.19465	.9998
#2	.19207	.19090	.19444	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2971.9**	**2379.2**	**22824.**	**3520.2**
Stddev	.0	.0	130.	8.2
%RSD	.00093	.00071	.57029	.23284
#1	2971.9	2379.2	22916.	3526.0
#2	2971.9	2379.2	22732.	3514.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.123%	98.641%	96.960%	101.82%
Range				

Sample Name: 480-198665-A-2-A Acquired: 6/13/2022 17:03:24 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.01591**	**.00188**	**.04150**	**.02342**
Stddev	.00032	.00329	.00155	.00010	.00004
%RSD	59.005	20.702	82.754	.24763	.16822
#1	-.00077	.01358	.00298	.04143	.02345
#2	-.00032	.01824	.00078	.04157	.02339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**78.059**	**.00049**	**-.0394**	**.00012**
Stddev	.00009	.253	.00013	.0201	.00004
%RSD	439.75	.32441	25.999	50.95	32.133
#1	.00004	78.238	.00040	-.0536	.00015
#2	-.00008	77.880	.00058	-.0252	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.00317**	**-.00534**	**2.7379**	**.00581**
Stddev	.00008	.00018	.00273	.0430	.00152
%RSD	13.709	5.6060	51.097	1.5725	26.170
#1	.00053	.00304	-.00727	2.7074	.00473
#2	.00064	.00329	-.00341	2.7683	.00688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-2-A Acquired: 6/13/2022 17:03:24 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**42.875**	**.00148**	**.00523**	**6.8814**	**.00266**
Stddev	.132	.00002	.00037	.0193	.00005
%RSD	.30727	1.1937	7.0889	.28068	1.7216
#1	42.968	.00150	.00497	6.8951	.00263
#2	42.782	.00147	.00549	6.8678	.00269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00211**	**21.843**	**-.00019**	**.00043**
Stddev	.00	.00113	.040	.00263	.00010
%RSD	.0016	53.325	.18492	1371.9	23.837
#1	25.02	.00131	21.815	-.00205	.00036
#2	25.02	.00291	21.872	.00167	.00050
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.750**	**-.00053**	**.41949**	**.9952**	**.00061**
Stddev	.026	.00010	.00120	.0099	.00001
%RSD	.20274	17.846	.28723	.9979	2.0753
#1	12.768	-.00047	.42035	1.002	.00061
#2	12.732	-.00060	.41864	.9882	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-2-A Acquired: 6/13/2022 17:03:24 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00103**	**.00241**	**.00341**	**.9990**
Stddev	.00004	.00011	.00010	.0006
%RSD	4.1959	4.6068	3.0730	.0625
#1	.00100	.00233	.00348	.9994
#2	.00106	.00249	.00334	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3086.2**	**2405.2**	**22660.**	**3312.2**
Stddev	22.3	13.2	170.	12.3
%RSD	.72289	.54831	.74994	.37225
#1	3070.4	2395.9	22540.	3303.5
#2	3102.0	2414.6	22780.	3320.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.628%	99.722%	96.263%	95.804%
Range				

Sample Name: 480-198665-A-3-A Acquired: 6/13/2022 17:07:16 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00061**	**-.00927**	**-.00008**	**.00448**	**.00149**
Stddev	.00025	.01776	.00090	.00017	.00002
%RSD	40.568	191.59	1121.1	3.7121	1.1072
#1	-.00079	.00329	-.00072	.00459	.00150
#2	-.00044	-.02182	.00056	.00436	.00148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**4.8982**	**.00001**	**-.0406**	**.00014**
Stddev	.00007	.0024	.00007	.0035	.00002
%RSD	181.21	.04907	584.32	8.568	13.189
#1	-.00001	4.8965	.00007	-.0381	.00015
#2	.00009	4.8999	-.00004	-.0431	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00280**	**-.00413**	**.05274**	**.00191**
Stddev	.00001	.00003	.00061	.03305	.00035
%RSD	29.857	1.0509	14.704	62.665	18.407
#1	.00003	.00278	-.00370	.07611	.00166
#2	.00005	.00282	-.00455	.02937	.00216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-3-A Acquired: 6/13/2022 17:07:16 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1134**	**.00056**	**.00008**	**.75249**	**.00013**
Stddev	.0031	.00001	.00014	.00646	.00004
%RSD	.09986	2.2606	175.96	.85874	28.214
#1	3.1112	.00056	-.00002	.75706	.00016
#2	3.1156	.00055	.00018	.74792	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00056**	**6.4816**	**-.00261**	**.00026**
Stddev	.00	.00175	.0089	.00135	.00069
%RSD	.0037	309.62	.13811	51.704	269.34
#1	25.02	-.00180	6.4879	-.00356	.00075
#2	25.02	.00067	6.4753	-.00165	-.00023
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05028**	**-.00025**	**.07483**	**1.002**	**-.00005**
Stddev	.00028	.00058	.00051	.006	.00013
%RSD	.54774	236.60	.68315	.5997	251.80
#1	.05048	-.00066	.07520	1.006	.00004
#2	.05009	.00017	.07447	.9973	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-3-A Acquired: 6/13/2022 17:07:16 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00180**	**-.00008**	**-.00020**	**.9992**
Stddev	.00141	.00013	.00021	.0000
%RSD	78.221	171.72	106.10	.0049
#1	.00080	-.00017	-.00005	.9992
#2	.00279	.00002	-.00035	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3364.0**	**2482.8**	**24595.**	**3573.6**
Stddev	11.6	9.2	33.	12.3
%RSD	.34578	.37209	.13354	.34367
#1	3372.2	2489.4	24618.	3582.2
#2	3355.8	2476.3	24572.	3564.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.15%	102.94%	104.48%	103.36%
Range				

Sample Name: 480-198665-A-4-A Acquired: 6/13/2022 17:11:09 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**-.00157**	**.00009**	**.19990**	**.01945**
Stddev	.00042	.02556	.00477	.00022	.00010
%RSD	86.098	1631.1	5576.9	.11004	.50569
#1	-.00019	-.01964	-.00329	.20006	.01938
#2	-.00079	.01651	.00346	.19975	.01952
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**280.34**	**.00074**	**-.0398**	**.00032**
Stddev	.00001	1.12	.00007	.0298	.00001
%RSD	25.830	.39991	10.056	74.92	2.4250
#1	.00003	279.55	.00079	-.0187	.00032
#2	.00005	281.13	.00069	-.0609	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00074**	**.00505**	**-.00564**	**3.3048**	**.03349**
Stddev	.00081	.00006	.00084	.0012	.00026
%RSD	109.43	1.1582	14.910	.03677	.78939
#1	.00131	.00501	-.00623	3.3039	.03368
#2	.00017	.00509	-.00504	3.3056	.03331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-4-A Acquired: 6/13/2022 17:11:09 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**194.49**	**.02664**	**.00643**	**43.852**	**.00492**
Stddev	.13	.00003	.00021	.194	.00008
%RSD	.06806	.09695	3.2404	.44192	1.5598
#1	194.39	.02665	.00629	43.715	.00487
#2	194.58	.02662	.00658	43.989	.00498
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00050**	F **415.13**	**-.00226**	**.00001**
Stddev	.00	.00014	.78	.00114	.00066
%RSD	.0012	28.505	.18685	50.590	6390.0
#1	25.02	.00040	415.68	-.00307	.00047
#2	25.02	.00060	414.59	-.00145	-.00045
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.0939**	**-.00076**	**4.3043**	**1.000**	**.00182**
Stddev	.0414	.00009	.0170	.002	.00016
%RSD	.67885	12.364	.39427	.1798	8.8883
#1	6.0647	-.00083	4.2923	.9987	.00171
#2	6.1232	-.00070	4.3163	1.001	.00194
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-4-A Acquired: 6/13/2022 17:11:09 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00176**	**-.00128**	**.00161**	**.9993**
Stddev	.00059	.00032	.00001	.0003
%RSD	33.550	24.929	.59614	.0325
#1	-.00134	-.00105	.00161	.9995
#2	-.00218	-.00150	.00160	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2821.2**	**2271.0**	**22144.**	**3445.9**
Stddev	4.2	5.5	41.	37.5
%RSD	.14993	.24285	.18300	1.0878
#1	2818.2	2267.1	22116.	3472.4
#2	2824.2	2274.9	22173.	3419.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.503%	94.157%	94.073%	99.670%
Range				

Sample Name: 480-198665-A-5-A Acquired: 6/13/2022 17:15:06 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**-.01264**	**.00064**	**.36334**	**.01809**
Stddev	.00035	.00170	.00046	.00103	.00000
%RSD	53.064	13.490	70.627	.28295	.01862
#1	-.00041	-.01384	.00032	.36407	.01809
#2	-.00090	-.01143	.00097	.36262	.01809
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**131.77**	**.00049**	**-.0751**	**.00018**
Stddev	.00001	.31	.00001	.0035	.00001
%RSD	101.68	.23550	1.1346	4.645	4.6464
#1	.00002	131.99	.00050	-.0776	.00018
#2	.00000	131.55	.00049	-.0726	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.00541**	**-.00848**	**2.0591**	**.02332**
Stddev	.00006	.00017	.00102	.0227	.00069
%RSD	14.709	3.0633	11.989	1.1050	2.9754
#1	.00044	.00529	-.00920	2.0430	.02381
#2	.00036	.00553	-.00776	2.0752	.02283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-5-A Acquired: 6/13/2022 17:15:06 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**74.983**	**.00123**	**.05319**	**77.016**	**.00123**
Stddev	.213	.00008	.00023	.260	.00006
%RSD	.28382	6.2807	.43161	.33721	4.6839
#1	74.833	.00117	.05335	77.200	.00127
#2	75.134	.00128	.05303	76.832	.00119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00050**	F **201.35**	**-.00043**	**-.00118**
Stddev	.00	.00038	.05	.00108	.00150
%RSD	.0033	77.367	.02641	249.59	126.62
#1	25.02	-.00023	201.31	-.00119	-.00012
#2	25.01	-.00077	201.38	.00033	-.00224
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.3138**	**-.00080**	**3.2266**	**.9928**	**.00102**
Stddev	.0063	.00013	.0076	.0009	.00002
%RSD	.14625	16.199	.23618	.0953	2.4043
#1	4.3093	-.00089	3.2320	.9935	.00104
#2	4.3182	-.00071	3.2212	.9921	.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-5-A Acquired: 6/13/2022 17:15:06 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00032**	**-.00096**	**.00156**	**.9986**
Stddev	.00018	.00014	.00035	.0014
%RSD	56.513	14.421	22.177	.1360
#1	.00045	-.00086	.00180	.9996
#2	.00019	-.00106	.00132	.9977
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2905.2**	**2313.3**	**22440.**	**3418.1**
Stddev	5.5	3.3	172.	9.7
%RSD	.18868	.14100	.76526	.28406
#1	2909.0	2315.6	22562.	3411.2
#2	2901.3	2311.0	22319.	3424.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.077%	95.910%	95.331%	98.866%
Range				

Sample Name: CCV-7018483 Acquired: 6/13/2022 17:18:59 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96523**	**48.049**	**.97217**	**.98381**	**.95818**
Stddev	.00023	.205	.00161	.00131	.00123
%RSD	.02338	.42614	.16539	.13266	.12886
#1	.96539	48.194	.97103	.98288	.95906
#2	.96507	47.904	.97330	.98473	.95731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96367**	**48.033**	**.97202**	**.9230**	**.96412**
Stddev	.00121	.028	.00127	.0024	.00059
%RSD	.12515	.05737	.13021	.2629	.06137
#1	.96452	48.014	.97113	.9213	.96370
#2	.96282	48.053	.97292	.9248	.96454
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99052**	**.96549**	**48.695**	**47.119**	**.93722**
Stddev	.00199	.00262	.103	.086	.00531
%RSD	.20129	.27092	.21168	.18178	.56703
#1	.98911	.96364	48.767	47.058	.94098
#2	.99193	.96734	48.622	47.179	.93347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/13/2022 17:18:59 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.440**	**.97907**	**.97916**	**47.261**	**.97077**
Stddev	.032	.00115	.00085	.037	.00135
%RSD	.06437	.11781	.08669	.07779	.13884
#1	49.463	.97826	.97856	47.287	.96982
#2	49.418	.97989	.97976	47.235	.97172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.32**	**.97134**	**24.298**	**.96765**	**.97345**
Stddev	.01	.00084	.034	.00111	.00297
%RSD	.0338	.08627	.13952	.11444	.30492
#1	37.31	.97074	24.274	.96843	.97135
#2	37.33	.97193	24.322	.96687	.97555
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5429**	**.96945**	**.94553**	**1.473**	**.97479**
Stddev	.0117	.00077	.00006	.005	.00290
%RSD	.12289	.07986	.00687	.3294	.29700
#1	9.5346	.96891	.94549	1.477	.97274
#2	9.5512	.97000	.94558	1.470	.97684
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/13/2022 17:18:59 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.98278**	**.97927**	**1.0105**	**1.482**
Stddev	.00426	.00119	.0009	.001
%RSD	.43296	.12145	.08658	.0392
#1	.97977	.97843	1.0099	1.483
#2	.98579	.98011	1.0112	1.482
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2884.1**	**2364.6**	**22340.**	**3358.8**
Stddev	10.0	10.3	18.	7.2
%RSD	.34785	.43452	.08046	.21499
#1	2891.2	2371.8	22352.	3364.0
#2	2877.0	2357.3	22327.	3353.7

Sample Name: CCB-7026764 Acquired: 6/13/2022 17:22:40 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00618**	**-.00051**	**.00032**	**.00001**
Stddev	.00065	.01133	.00107	.00025	.00001
%RSD	947.84	183.24	210.14	77.262	52.732
#1	.00053	.01419	.00025	.00015	.00002
#2	-.00039	-.00183	-.00127	.00050	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.00330**	**-.00014**	**-.0200**	**.00006**
Stddev	.00004	.00535	.00005	.0063	.00008
%RSD	67.440	162.05	35.518	31.32	122.74
#1	.00003	.00048	-.00018	-.0244	.00012
#2	.00009	-.00708	-.00011	-.0155	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00094**	**-.01628**	**.05285**	**.00139**
Stddev	.00013	.00072	.00048	.04422	.00101
%RSD	39.558	76.549	2.9222	83.672	72.403
#1	-.00043	.00043	-.01662	.08412	.00210
#2	-.00024	.00146	-.01595	.02158	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/13/2022 17:22:40 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00101**	**-.00012**	**.00019**	**.00351**	**-.00021**
Stddev	.00039	.00001	.00013	.00981	.00009
%RSD	38.687	5.9674	67.041	279.69	40.737
#1	.00073	-.00012	.00028	-.00343	-.00015
#2	.00128	-.00011	.00010	.01045	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00061**	**.00033**	**-.00152**	**-.00117**
Stddev	.00	.00080	.00082	.00115	.00359
%RSD	.0002	130.23	251.24	75.389	307.62
#1	25.02	-.00118	-.00025	-.00233	.00137
#2	25.02	-.00005	.00091	-.00071	-.00371
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.05052**	**-.00031**	**.00008**	**.9966**	**.00012**
Stddev	.00046	.00023	.00007	.0036	.00018
%RSD	.90654	73.659	80.882	.3565	151.00
#1	-.05020	-.00047	.00013	.9941	-.00001
#2	-.05084	-.00015	.00003	.9991	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/13/2022 17:22:40 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00094**	**-.00007**	**-.00237**	**.9987**
Stddev	.00021	.00036	.00105	.0001
%RSD	22.631	538.55	44.376	.0111
#1	.00079	-.00032	-.00311	.9988
#2	.00109	.00019	-.00162	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3368.6**	**2482.0**	**24375.**	**3552.4**
Stddev	4.5	.7	26.	28.7
%RSD	.13287	.02808	.10710	.80829
#1	3371.8	2482.5	24394.	3532.1
#2	3365.5	2481.5	24357.	3572.7

Sample Name: CCVL-7028546 Acquired: 6/13/2022 17:26:38 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00535**	**.19175**	**.01401**	**.01976**	**.00211**
Stddev	.00052	.00626	.00034	.00026	.00000
%RSD	9.8117	3.2641	2.4545	1.3202	.09603
#1	.00572	.19618	.01426	.01958	.00211
#2	.00498	.18733	.01377	.01995	.00211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00212**	**.50276**	**.00199**	**-.0089**	**.00395**
Stddev	.00006	.00751	.00004	.0048	.00014
%RSD	3.0351	1.4936	1.8963	53.76	3.6503
#1	.00216	.50807	.00196	-.0122	.00405
#2	.00207	.49745	.00202	-.0055	.00385
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00422**	**.01255**	F **.23084**	**.46874**	**.02805**
Stddev	.00048	.00070	.00430	.08749	.00051
%RSD	11.278	5.5552	1.8643	18.666	1.8123
#1	.00388	.01304	.23388	.53061	.02769
#2	.00455	.01205	.22780	.40687	.02840
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value			.05000		
Range			50.000%		

Sample Name: CCVL-7028546 Acquired: 6/13/2022 17:26:38 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20203**	W **.00433**	**.01030**	**.91776**	**.00981**
Stddev	.00459	.00002	.00006	.01801	.00005
%RSD	2.2714	.43299	.54354	1.9623	.46485
#1	.20528	.00432	.01034	.93049	.00978
#2	.19879	.00435	.01026	.90503	.00984
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value		.00300			
Range		30.000%			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00949**	**.19543**	**.01830**	**.02531**
Stddev	.00	.00017	.00005	.00231	.00216
%RSD	.0002	1.7968	.02620	12.641	8.5427
#1	25.00	.00937	.19547	.01667	.02684
#2	25.00	.00961	.19539	.01994	.02378
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.42380**	**.00903**	**.00518**	F **.9918**	**.00465**
Stddev	.01431	.00032	.00020	.0042	.00007
%RSD	3.3768	3.5650	3.9464	.4263	1.5763
#1	.43392	.00880	.00533	.9888	.00470
#2	.41368	.00925	.00504	.9948	.00460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/13/2022 17:26:38 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02057**	**.00519**	**.00846**	F **.9991**
Stddev	.00077	.00013	.00047	.0006
%RSD	3.7195	2.4522	5.5726	.0634
#1	.02111	.00510	.00813	.9996
#2	.02003	.00528	.00880	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3360.5**	**2481.2**	**24483.**	**3505.1**
Stddev	4.2	1.7	23.	44.1
%RSD	.12429	.06931	.09260	1.2569
#1	3363.4	2482.4	24499.	3473.9
#2	3357.5	2479.9	24467.	3536.2

Sample Name: 480-198665-A-6-A Acquired: 6/13/2022 17:30:33 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**-.00202**	**.00027**	**.05276**	**.04852**
Stddev	.00001	.04588	.00072	.00013	.00009
%RSD	1.4150	2272.4	265.63	.24153	.18010
#1	-.00078	.03042	.00078	.05285	.04858
#2	-.00080	-.03446	-.00024	.05267	.04846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**109.36**	**.00062**	**-.0402**	**.00005**
Stddev	.00004	1.13	.00003	.0444	.00002
%RSD	287.71	1.0366	5.2801	110.5	30.672
#1	.00005	110.16	.00060	-.0716	.00006
#2	-.00002	108.56	.00065	-.0088	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.00471**	**-.00728**	**2.9816**	**.00377**
Stddev	.00027	.00035	.00154	.0208	.00060
%RSD	86.429	7.3683	21.199	.69785	15.931
#1	.00051	.00496	-.00619	2.9963	.00335
#2	.00012	.00447	-.00838	2.9669	.00420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-6-A Acquired: 6/13/2022 17:30:33 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**57.268**	**.00232**	**.00316**	**16.039**	**.00103**
Stddev	.119	.00013	.00014	.127	.00016
%RSD	.20844	5.5136	4.4269	.78922	15.194
#1	57.353	.00223	.00325	16.129	.00114
#2	57.184	.00241	.00306	15.950	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**-.00023**	**53.917**	**-.00388**	**-.00239**
Stddev	.00	.00040	.111	.00085	.00368
%RSD	.0045	176.79	.20670	21.953	153.89
#1	25.03	-.00051	53.996	-.00328	-.00500
#2	25.03	.00006	53.838	-.00449	.00021
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.6123**	**.00048**	**.26252**	**.9952**	**.00052**
Stddev	.0212	.00021	.00186	.0026	.00036
%RSD	.37853	43.651	.70974	.2608	69.768
#1	5.6273	.00063	.26384	.9971	.00077
#2	5.5972	.00033	.26120	.9934	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-6-A Acquired: 6/13/2022 17:30:33 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00067**	**-.00060**	**.00714**	**.9998**
Stddev	.00119	.00032	.00058	.0009
%RSD	177.91	52.456	8.1345	.0882
#1	-.00017	-.00038	.00755	.9991
#2	.00151	-.00083	.00673	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2981.3**	**2347.4**	**22832.**	**3455.8**
Stddev	4.6	1.8	5.	46.1
%RSD	.15417	.07695	.02149	1.3326
#1	2984.5	2346.1	22835.	3423.2
#2	2978.0	2348.6	22828.	3488.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.412%	97.323%	96.994%	99.956%
Range				

Sample Name: 480-198665-A-7-A Acquired: 6/13/2022 17:34:24 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.02027**	**-.00012**	**.28809**	**.03699**
Stddev	.00031	.01011	.00110	.00043	.00004
%RSD	57.664	49.884	909.48	.14836	.11359
#1	-.00032	.02743	.00066	.28779	.03696
#2	-.00076	.01312	-.00090	.28839	.03702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**77.170**	**.00049**	**-.0237**	**.00019**
Stddev	.00004	.589	.00023	.0063	.00001
%RSD	111.32	.76305	47.338	26.53	5.7288
#1	.00006	77.586	.00065	-.0193	.00019
#2	.00001	76.753	.00033	-.0282	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00430**	**-.00261**	**2.5110**	**.00528**
Stddev	.00009	.00049	.00190	.0243	.00084
%RSD	65.812	11.274	72.941	.96752	16.008
#1	-.00019	.00465	-.00126	2.5282	.00468
#2	-.00007	.00396	-.00395	2.4938	.00587
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-7-A Acquired: 6/13/2022 17:34:24 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**40.840**	**.05121**	**.03130**	**35.508**	**.00249**
Stddev	.093	.00012	.00001	.326	.00009
%RSD	.22814	.22990	.02596	.91686	3.6627
#1	40.774	.05113	.03129	35.738	.00242
#2	40.906	.05130	.03130	35.277	.00255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00009**	**68.906**	**-.00107**	**-.00093**
Stddev	.00	.00085	.042	.00037	.00007
%RSD	.0053	914.90	.06121	34.576	7.5259
#1	25.02	.00069	68.936	-.00133	-.00088
#2	25.02	-.00051	68.877	-.00081	-.00098
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.6649**	**-.00047**	**1.1168**	**.9951**	**.00063**
Stddev	.0460	.00050	.0118	.0050	.00013
%RSD	.81174	106.94	1.0558	.5067	20.016
#1	5.6974	-.00082	1.1251	.9915	.00054
#2	5.6324	-.00011	1.1085	.9987	.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-7-A Acquired: 6/13/2022 17:34:24 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00000**	**-.00059**	**.00064**	**.9990**
Stddev	.00010	.00009	.00028	.0008
%RSD	3802.8	15.558	43.824	.0807
#1	.00007	-.00052	.00083	.9984
#2	-.00008	-.00065	.00044	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3046.6**	**2393.2**	**22993.**	**3537.6**
Stddev	3.1	2.7	95.	2.2
%RSD	.10317	.11092	.41181	.06156
#1	3044.4	2391.3	23060.	3539.1
#2	3048.8	2395.0	22926.	3536.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.414%	99.221%	97.679%	102.32%
Range				

Sample Name: 480-198665-A-8-O Acquired: 6/13/2022 17:38:15 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.00516**	**-.00033**	**.04627**	**.04951**
Stddev	.00011	.00513	.00058	.00070	.00005
%RSD	57.220	99.473	172.16	1.5097	.09516
#1	.00027	-.00878	.00007	.04676	.04948
#2	.00012	-.00153	-.00074	.04578	.04955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**79.201**	**.00046**	**-.0523**	**-.00001**
Stddev	.00001	.332	.00003	.0056	.00004
%RSD	12.766	.41880	7.4580	10.73	572.40
#1	.00005	79.436	.00043	-.0483	.00002
#2	.00005	78.967	.00048	-.0563	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**.00492**	**-.00497**	**2.7033**	**.00891**
Stddev	.00030	.00088	.00118	.0439	.00072
%RSD	65.941	17.912	23.718	1.6227	8.1261
#1	.00024	.00430	-.00580	2.6723	.00942
#2	.00067	.00554	-.00413	2.7343	.00840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-8-O Acquired: 6/13/2022 17:38:15 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.852**	**.00328**	**.00679**	**13.442**	**.00045**
Stddev	.100	.00003	.00019	.071	.00020
%RSD	.21847	.78333	2.7334	.52579	43.537
#1	45.781	.00326	.00692	13.492	.00059
#2	45.923	.00329	.00665	13.392	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00139**	**27.117**	**-.00181**	**.00307**
Stddev	.00	.00009	.001	.00208	.00103
%RSD	.0002	6.3308	.00231	115.29	33.694
#1	25.01	.00132	27.117	-.00033	.00380
#2	25.01	.00145	27.118	-.00328	.00234
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.3708**	**-.00049**	**.22643**	**.9952**	**.00108**
Stddev	.0142	.00003	.00142	.0113	.00029
%RSD	.26393	6.9139	.62575	1.134	26.667
#1	5.3808	-.00047	.22743	1.003	.00129
#2	5.3608	-.00052	.22543	.9872	.00088
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-8-O Acquired: 6/13/2022 17:38:15 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00122**	**-.00095**	**.00141**	**.9986**
Stddev	.00086	.00002	.00008	.0007
%RSD	70.933	1.6888	5.5152	.0661
#1	.00183	-.00096	.00135	.9990
#2	.00061	-.00094	.00146	.9981
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3041.3**	**2380.8**	**22890.**	**3481.0**
Stddev	2.2	3.7	110.	9.3
%RSD	.07116	.15527	.48117	.26779
#1	3042.9	2383.4	22968.	3474.4
#2	3039.8	2378.2	22812.	3487.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.252%	98.708%	97.242%	100.69%
Range				

Sample Name: 480-198665-A-9-A Acquired: 6/13/2022 17:42:07 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.01004**	**.00242**	**.37582**	**.02081**
Stddev	.00139	.01125	.00092	.00179	.00005
%RSD	1328.5	112.11	38.003	.47737	.25682
#1	-.00108	.00208	.00307	.37455	.02085
#2	.00088	.01799	.00177	.37709	.02078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**34.337**	**.00025**	**-.0164**	**-.00009**
Stddev	.00002	.239	.00009	.0194	.00006
%RSD	917.30	.69689	34.890	118.2	66.777
#1	-.00002	34.506	.00032	-.0302	-.00005
#2	.00001	34.168	.00019	-.0027	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00213**	**.00333**	**1.4973**	**.01123**
Stddev	.00001	.00019	.00143	.0381	.00178
%RSD	6.4610	9.0195	42.896	2.5423	15.875
#1	-.00010	.00226	.00434	1.5242	.01249
#2	-.00011	.00199	.00232	1.4704	.00997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-9-A Acquired: 6/13/2022 17:42:07 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.706**	**.00715**	**.04722**	**45.395**	**-.00013**
Stddev	.011	.00003	.00026	.242	.00000
%RSD	.03728	.45180	.56041	.53366	2.4030
#1	28.714	.00717	.04703	45.567	-.00013
#2	28.698	.00713	.04740	45.224	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00023**	**40.471**	**-.00249**	**.00038**
Stddev	.00	.00071	.062	.00369	.00192
%RSD	.0010	309.11	.15264	148.22	510.49
#1	25.02	-.00073	40.515	.00012	.00174
#2	25.02	.00027	40.428	-.00510	-.00098
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.3012**	**-.00075**	**1.1630**	**1.003**	**.00007**
Stddev	.0607	.00010	.0075	.005	.00006
%RSD	.73106	13.056	.64185	.4919	89.759
#1	8.3441	-.00082	1.1683	1.006	.00011
#2	8.2583	-.00068	1.1577	.9995	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-9-A Acquired: 6/13/2022 17:42:07 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00129**	**-.00083**	**-.00030**	**1.000**
Stddev	.00086	.00032	.00045	.001
%RSD	66.741	39.110	150.01	.0554
#1	.00190	-.00060	.00002	1.000
#2	.00068	-.00106	-.00062	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3125.4**	**2431.3**	**23492.**	**3553.3**
Stddev	10.6	10.4	25.	20.2
%RSD	.33845	.42657	.10461	.56937
#1	3132.9	2438.7	23510.	3539.0
#2	3118.0	2424.0	23475.	3567.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.832%	100.80%	99.800%	102.78%
Range				

Sample Name: 480-198665-A-10-A Acquired: 6/13/2022 17:45:58 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00085**	**.01984**	**.00063**	**.59265**	**.03555**
Stddev	.00053	.01153	.00025	.00016	.00004
%RSD	61.926	58.131	39.488	.02722	.11288
#1	.00048	.01168	.00046	.59276	.03558
#2	.00123	.02799	.00081	.59254	.03552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**37.859**	**.00041**	**-.0381**	**.00013**
Stddev	.00007	.159	.00007	.0014	.00002
%RSD	372.70	.42104	16.799	3.708	18.440
#1	.00003	37.971	.00046	-.0391	.00011
#2	-.00007	37.746	.00037	-.0371	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.00369**	**.00307**	**1.3274**	**.01279**
Stddev	.00001	.00058	.00077	.0155	.00101
%RSD	4.1411	15.720	24.972	1.1705	7.8997
#1	-.00033	.00410	.00252	1.3384	.01208
#2	-.00035	.00328	.00361	1.3164	.01351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-10-A Acquired: 6/13/2022 17:45:58 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.584**	**.06395**	**.04583**	**40.573**	**.00073**
Stddev	.150	.00008	.00005	.178	.00029
%RSD	.54383	.13134	.10971	.43954	39.638
#1	27.690	.06401	.04579	40.700	.00053
#2	27.478	.06389	.04586	40.447	.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.06**	**.00127**	**37.687**	**-.00174**	**-.00005**
Stddev	.00	.00020	.083	.00133	.00368
%RSD	.0013	15.838	.22124	76.308	7456.0
#1	25.06	.00113	37.628	-.00080	-.00265
#2	25.06	.00141	37.746	-.00268	.00255
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.5212**	**-.00020**	**1.7988**	**.9965**	**.00022**
Stddev	.0189	.00020	.0077	.0028	.00053
%RSD	.34212	101.54	.42938	.2846	248.70
#1	5.5345	-.00006	1.8043	.9985	-.00016
#2	5.5078	-.00034	1.7934	.9945	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-10-A Acquired: 6/13/2022 17:45:58 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00072**	**.00018**	**.00036**	**.9985**
Stddev	.00136	.00006	.00006	.0005
%RSD	189.37	32.564	17.597	.0529
#1	.00168	.00022	.00031	.9989
#2	-.00024	.00014	.00040	.9982
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3115.4**	**2422.6**	**23005.**	**3492.9**
Stddev	8.0	5.7	169.	7.7
%RSD	.25622	.23726	.73281	.22073
#1	3109.8	2418.5	22885.	3487.5
#2	3121.1	2426.7	23124.	3498.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.525%	100.44%	97.728%	101.03%
Range				

Sample Name: 480-198665-A-11-A Acquired: 6/13/2022 17:49:48 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00797**	**.00244**	**.04579**	**.03245**
Stddev	.00070	.03336	.00028	.00002	.00002
%RSD	1347.4	418.59	11.534	.05388	.06895
#1	-.00055	.01562	.00264	.04577	.03244
#2	.00044	-.03156	.00224	.04581	.03247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**100.47**	**.00043**	**-.0305**	**.00013**
Stddev	.00002	.26	.00007	.0016	.00002
%RSD	31.727	.25912	16.938	5.394	17.665
#1	.00008	100.65	.00049	-.0317	.00012
#2	.00005	100.28	.00038	-.0294	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**.00625**	**-.00031**	**.64451**	**.00334**
Stddev	.00005	.00035	.00000	.01177	.00025
%RSD	8.1050	5.5435	.67881	1.8269	7.4751
#1	.00068	.00650	-.00032	.65283	.00352
#2	.00060	.00601	-.00031	.63618	.00317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-11-A Acquired: 6/13/2022 17:49:48 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**59.885**	**.00177**	**.00442**	**7.4214**	**.00089**
Stddev	.080	.00004	.00018	.0208	.00015
%RSD	.13374	1.9775	4.0076	.27966	16.438
#1	59.828	.00180	.00454	7.4361	.00100
#2	59.941	.00175	.00429	7.4067	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00062**	**57.757**	**-.00257**	**-.00070**
Stddev	.00	.00016	.032	.00093	.00097
%RSD	.0031	25.244	.05576	36.019	138.02
#1	25.01	.00073	57.779	-.00192	-.00002
#2	25.01	.00051	57.734	-.00323	-.00138
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.9959**	**-.00044**	**.36462**	**.9948**	**.00022**
Stddev	.0026	.00032	.00068	.0082	.00019
%RSD	.06483	71.128	.18707	.8261	85.402
#1	3.9978	-.00022	.36510	1.001	.00009
#2	3.9941	-.00067	.36414	.9890	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-11-A Acquired: 6/13/2022 17:49:48 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00082**	**-.00105**	**.00024**	**.9989**
Stddev	.00067	.00000	.00025	.0001
%RSD	80.827	.22917	104.68	.0076
#1	.00035	-.00104	.00041	.9989
#2	.00130	-.00105	.00006	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3024.2**	**2370.8**	**23004.**	**3472.0**
Stddev	5.3	4.3	1.	5.8
%RSD	.17591	.18108	.00283	.16598
#1	3028.0	2373.9	23004.	3468.0
#2	3020.4	2367.8	23005.	3476.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.727%	98.294%	97.727%	100.43%
Range				

Sample Name: 480-198665-A-12-A Acquired: 6/13/2022 17:53:41 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00626**	**.00242**	**.74579**	**.02415**
Stddev	.00017	.00162	.00098	.00115	.00005
%RSD	135.74	25.897	40.499	.15432	.19974
#1	-.00001	.00511	.00312	.74498	.02412
#2	-.00025	.00740	.00173	.74661	.02418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**35.994**	**.00029**	**-.0073**	**.00014**
Stddev	.00001	.298	.00015	.0245	.00001
%RSD	37.666	.82705	50.242	333.7	10.643
#1	-.00002	36.205	.00019	.0100	.00013
#2	-.00003	35.784	.00039	-.0247	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00497**	**.02532**	**1.5213**	**.01107**
Stddev	.00016	.00053	.00306	.0228	.00148
%RSD	325.45	10.643	12.085	1.5019	13.388
#1	.00007	.00534	.02748	1.5375	.01002
#2	-.00017	.00459	.02316	1.5052	.01212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-12-A Acquired: 6/13/2022 17:53:41 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.777**	**.01612**	**.06918**	**63.468**	**-.00001**
Stddev	.025	.00001	.00015	.978	.00024
%RSD	.10511	.03773	.21209	1.5405	4298.6
#1	23.795	.01613	.06928	64.159	-.00018
#2	23.760	.01612	.06907	62.776	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00033**	**49.215**	**-.00405**	**.00244**
Stddev	.00	.00003	.112	.00020	.00067
%RSD	.0058	9.7929	.22831	4.8573	27.548
#1	25.02	.00031	49.136	-.00391	.00196
#2	25.02	.00036	49.295	-.00419	.00291
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.4403**	**-.00043**	**1.2070**	**.9975**	**.00005**
Stddev	.0585	.00043	.0104	.0021	.00012
%RSD	.78603	101.47	.86397	.2147	241.57
#1	7.4817	-.00012	1.2144	.9990	-.00004
#2	7.3990	-.00073	1.1996	.9960	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-12-A Acquired: 6/13/2022 17:53:41 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.00037**	**.00039**	**.9994**
Stddev	.00094	.00045	.00033	.0003
%RSD	885.48	122.04	84.215	.0331
#1	-.00077	-.00005	.00062	.9991
#2	.00056	-.00069	.00016	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3089.6**	**2414.0**	**22639.**	**3391.5**
Stddev	16.3	15.5	33.	31.0
%RSD	.52778	.64068	.14582	.91516
#1	3078.1	2403.1	22616.	3369.5
#2	3101.1	2424.9	22663.	3413.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.732%	100.08%	96.176%	98.096%
Range				

Sample Name: 480-198665-A-13-A Acquired: 6/13/2022 17:57:33 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**-.00033**	**-.00089**	**.36051**	**.02360**
Stddev	.00003	.00110	.00032	.00028	.00006
%RSD	6.0653	331.79	36.311	.07848	.24511
#1	-.00044	.00045	-.00111	.36071	.02356
#2	-.00048	-.00111	-.00066	.36031	.02364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**61.112**	**.00038**	**-.0182**	**.00011**
Stddev	.00001	.479	.00014	.0203	.00002
%RSD	26.400	.78449	36.527	111.2	21.271
#1	.00003	61.451	.00048	-.0039	.00009
#2	.00002	60.773	.00028	-.0326	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**.00383**	**-.00265**	**1.2463**	**.00690**
Stddev	.00021	.00012	.00515	.0274	.00015
%RSD	32.185	3.2180	194.06	2.1974	2.1472
#1	.00081	.00374	-.00629	1.2270	.00679
#2	.00051	.00392	.00099	1.2657	.00700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-13-A Acquired: 6/13/2022 17:57:33 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.968**	**.00135**	**.05174**	**48.960**	**.00045**
Stddev	.236	.00004	.00021	.419	.00021
%RSD	.81555	2.8503	.40333	.85570	47.141
#1	28.801	.00137	.05189	49.257	.00030
#2	29.135	.00132	.05159	48.664	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00039**	**46.777**	**-.00202**	**.00033**
Stddev	.00	.00008	.119	.00113	.00034
%RSD	.0001	19.676	.25483	55.992	104.34
#1	25.02	.00045	46.861	-.00281	.00057
#2	25.02	.00034	46.692	-.00122	.00009
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.4532**	**-.00025**	**1.3728**	**.9943**	**.00052**
Stddev	.0329	.00045	.0130	.0003	.00046
%RSD	.73935	181.34	.94417	.0319	87.522
#1	4.4765	-.00057	1.3820	.9941	.00020
#2	4.4299	.00007	1.3636	.9946	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-13-A Acquired: 6/13/2022 17:57:33 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00117**	**-.00023**	**.00059**	**1.000**
Stddev	.00131	.00002	.00016	.001
%RSD	111.64	8.3978	26.277	.0665
#1	-.00210	-.00022	.00070	.9998
#2	-.00025	-.00025	.00048	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3084.4**	**2420.4**	**23154.**	**3533.6**
Stddev	2.9	2.5	200.	43.6
%RSD	.09534	.10129	.86531	1.2342
#1	3082.4	2418.7	23296.	3502.7
#2	3086.5	2422.1	23013.	3564.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.574%	100.35%	98.364%	102.21%
Range				

Sample Name: 480-198665-A-14-A Acquired: 6/13/2022 18:01:24 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.03401**	**.00265**	**.54400**	**.01791**
Stddev	.00050	.02295	.00163	.00011	.00002
%RSD	361.94	67.469	61.537	.01994	.08823
#1	.00049	.05024	.00149	.54408	.01792
#2	-.00021	.01778	.00380	.54393	.01790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**25.997**	**.00004**	**-.0297**	**.00028**
Stddev	.00001	.069	.00002	.0048	.00001
%RSD	179.39	.26680	52.144	16.23	2.9620
#1	-.00000	26.046	.00003	-.0263	.00027
#2	.00001	25.948	.00006	-.0331	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00402**	**.00238**	**.87876**	**.00451**
Stddev	.00008	.00030	.00218	.01451	.00129
%RSD	27.328	7.4625	91.583	1.6515	28.525
#1	-.00034	.00424	.00393	.88903	.00360
#2	-.00023	.00381	.00084	.86850	.00542
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-14-A Acquired: 6/13/2022 18:01:24 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.6029**	**.00034**	**.13291**	**79.240**	**.00083**
Stddev	.0075	.00002	.00040	.394	.00019
%RSD	.08761	5.2719	.30201	.49741	22.431
#1	8.6083	.00036	.13263	79.519	.00096
#2	8.5976	.00033	.13319	78.961	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00050**	**61.809**	**-.00131**	**.00007**
Stddev	.00	.00002	.060	.00079	.00295
%RSD	.0006	4.8051	.09721	59.763	4228.5
#1	25.02	.00051	61.766	-.00076	-.00201
#2	25.02	.00048	61.851	-.00187	.00215
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1569**	**-.00016**	**.90180**	**.9959**	**.00023**
Stddev	.0101	.00079	.00152	.0026	.00020
%RSD	.31829	490.80	.16809	.2639	85.080
#1	3.1640	.00040	.90287	.9978	.00009
#2	3.1497	-.00072	.90073	.9941	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-14-A Acquired: 6/13/2022 18:01:24 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.00026**	**.00023**	**.9988**
Stddev	.00123	.00012	.00053	.0012
%RSD	288.10	46.086	226.36	.1183
#1	.00044	.00017	-.00014	.9996
#2	-.00130	.00034	.00061	.9979
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3078.5**	**2405.7**	**23074.**	**3471.0**
Stddev	4.9	3.2	73.	27.2
%RSD	.15913	.13224	.31808	.78492
#1	3075.1	2403.5	23022.	3451.7
#2	3082.0	2408.0	23126.	3490.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.393%	99.741%	98.023%	100.40%
Range				

Sample Name: CCV-7018483 Acquired: 6/13/2022 18:05:17 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95916**	**47.978**	**.97663**	**.99781**	**.97018**
Stddev	.00341	.116	.00114	.00106	.00173
%RSD	.35582	.24097	.11717	.10617	.17848
#1	.96157	47.896	.97743	.99856	.96896
#2	.95674	48.059	.97582	.99706	.97140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97340**	**48.022**	**.97433**	**.9894**	**.96203**
Stddev	.00271	.171	.00043	.0142	.00146
%RSD	.27792	.35582	.04369	1.433	.15161
#1	.97148	47.901	.97463	.9994	.96100
#2	.97531	48.143	.97403	.9794	.96307
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0039**	**.96737**	**48.444**	**47.939**	**.94867**
Stddev	.0009	.00330	.038	.167	.00119
%RSD	.09268	.34063	.07857	.34784	.12496
#1	1.0046	.96970	48.471	47.821	.94783
#2	1.0033	.96504	48.417	48.057	.94951
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/13/2022 18:05:17 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.471**	**.98842**	**.99186**	**47.881**	**.97226**
Stddev	.011	.00012	.00152	.069	.00060
%RSD	.02201	.01248	.15356	.14351	.06220
#1	49.463	.98834	.99294	47.832	.97183
#2	49.479	.98851	.99078	47.929	.97268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.28**	**.96563**	**24.235**	**.96982**	**.98204**
Stddev	.01	.00706	.042	.00383	.01228
%RSD	.0267	.73065	.17251	.39486	1.2500
#1	37.28	.96064	24.264	.96711	.99072
#2	37.27	.97062	24.205	.97253	.97336
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4727**	**.96105**	**.95738**	**1.472**	**.97138**
Stddev	.0585	.00133	.00225	.005	.00090
%RSD	.61764	.13849	.23542	.3228	.09260
#1	9.4313	.96011	.95578	1.469	.97202
#2	9.5140	.96200	.95897	1.476	.97075
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/13/2022 18:05:17 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99276**	**.97153**	**1.0005**	**1.493**
Stddev	.00028	.00028	.0002	.001
%RSD	.02799	.02902	.02360	.0947
#1	.99296	.97133	1.0003	1.494
#2	.99256	.97173	1.0006	1.492
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2903.2**	**2377.9**	**22507.**	**3377.8**
Stddev	15.5	9.6	26.	9.8
%RSD	.53233	.40544	.11343	.29094
#1	2914.2	2384.7	22489.	3384.8
#2	2892.3	2371.1	22525.	3370.9

Sample Name: CCB-7026764 Acquired: 6/13/2022 18:08:58 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.02872**	**-.00012**	**.00071**	**.00002**
Stddev	.00060	.01869	.00064	.00023	.00004
%RSD	505.56	65.093	513.82	33.246	169.92
#1	-.00054	.01550	-.00058	.00087	-.00000
#2	.00031	.04194	.00033	.00054	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**-.00160**	**-.00009**	**-.0348**	**.00004**
Stddev	.00002	.00049	.00006	.0207	.00015
%RSD	22.745	30.801	68.260	59.55	385.62
#1	.00007	-.00125	-.00013	-.0201	-.00007
#2	.00009	-.00195	-.00004	-.0494	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.00228**	**-.01406**	**.03853**	**.00087**
Stddev	.00020	.00017	.00149	.01439	.00138
%RSD	53.763	7.3349	10.618	37.342	158.33
#1	-.00052	.00216	-.01512	.04871	.00185
#2	-.00023	.00239	-.01301	.02836	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/13/2022 18:08:58 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00320**	**-.00018**	**.00030**	**-.00597**	**.00021**
Stddev	.00051	.00004	.00004	.00362	.00005
%RSD	16.096	21.118	14.001	60.646	23.824
#1	.00356	-.00015	.00033	-.00853	.00025
#2	.00283	-.00020	.00027	-.00341	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00029**	**-.01091**	**-.00089**	**.00009**
Stddev	.00	.00099	.00260	.00087	.00316
%RSD	.0013	344.25	23.792	98.247	3465.9
#1	25.02	.00041	-.00907	-.00150	-.00215
#2	25.02	-.00099	-.01275	-.00027	.00233
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.06625**	**-.00046**	**.00014**	**.9962**	**-.00004**
Stddev	.00613	.00022	.00002	.0046	.00050
%RSD	9.2459	47.098	16.182	.4618	1287.2
#1	-.07058	-.00062	.00013	.9930	-.00039
#2	-.06192	-.00031	.00016	.9995	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/13/2022 18:08:58 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00002**	**-.00250**	**.9986**
Stddev	.00055	.00009	.00032	.0004
%RSD	240.95	552.15	12.625	.0431
#1	-.00016	.00008	-.00272	.9983
#2	.00062	-.00005	-.00228	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3398.3**	**2504.5**	**24372.**	**3518.6**
Stddev	1.7	4.5	98.	30.2
%RSD	.04890	.17779	.40019	.85899
#1	3399.5	2507.6	24303.	3539.9
#2	3397.1	2501.3	24441.	3497.2

Sample Name: CCVL-7028546 Acquired: 6/13/2022 18:12:55 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00536**	**.20292**	**.01355**	**.02016**	**.00215**
Stddev	.00069	.00622	.00106	.00001	.00003
%RSD	12.861	3.0633	7.8241	.02936	1.5706
#1	.00487	.20731	.01280	.02017	.00213
#2	.00585	.19852	.01430	.02016	.00218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00204**	**.49341**	**.00210**	**-.0362**	**.00393**
Stddev	.00012	.00063	.00003	.0221	.00005
%RSD	5.6581	.12724	1.6259	61.21	1.2527
#1	.00196	.49296	.00213	-.0518	.00390
#2	.00212	.49385	.00208	-.0205	.00397
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00413**	**.01189**	**.03851**	**.45287**	**.02654**
Stddev	.00020	.00093	.00149	.08940	.00015
%RSD	4.7312	7.8012	3.8703	19.741	.56332
#1	.00427	.01123	.03746	.38965	.02643
#2	.00399	.01254	.03956	.51608	.02664
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/13/2022 18:12:55 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20020**	**.00321**	**.01038**	**.91342**	**.00980**
Stddev	.00080	.00001	.00002	.00201	.00002
%RSD	.40191	.39357	.15529	.22044	.19942
#1	.19963	.00322	.01039	.91485	.00981
#2	.20077	.00320	.01037	.91200	.00979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00989**	**.18271**	**.01879**	**.02095**
Stddev	.00	.00004	.00098	.00019	.00053
%RSD	.0000	.42120	.53494	1.0081	2.5470
#1	25.00	.00992	.18201	.01866	.02133
#2	25.00	.00986	.18340	.01892	.02057
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.41102**	**.00888**	**.00506**	F **.9975**	**.00444**
Stddev	.01108	.00020	.00002	.0014	.00016
%RSD	2.6954	2.2337	.41026	.1367	3.5873
#1	.41885	.00874	.00507	.9965	.00433
#2	.40318	.00903	.00504	.9985	.00455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/13/2022 18:12:55 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02118**	**.00495**	**.00828**	F **.9993**
Stddev	.00032	.00042	.00029	.0002
%RSD	1.4890	8.4013	3.4831	.0168
#1	.02095	.00524	.00808	.9994
#2	.02140	.00465	.00848	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3351.9**	**2480.7**	**24489.**	**3582.6**
Stddev	3.8	2.5	178.	1.7
%RSD	.11265	.10108	.72681	.04732
#1	3354.6	2482.4	24615.	3581.4
#2	3349.3	2478.9	24363.	3583.8

Sample Name: 480-198665-A-15-A Acquired: 6/13/2022 18:16:50 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**-.01137**	**.00200**	**.37841**	**.01861**
Stddev	.00038	.00133	.00088	.00052	.00000
%RSD	127.77	11.694	44.008	.13718	.01816
#1	-.00003	-.01231	.00262	.37804	.01861
#2	-.00056	-.01043	.00138	.37877	.01861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**34.130**	**.00037**	**-.0456**	**.00004**
Stddev	.00003	.406	.00004	.0347	.00005
%RSD	68.300	1.1907	10.340	75.98	114.09
#1	.00007	34.417	.00034	-.0211	.00001
#2	.00002	33.843	.00039	-.0702	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00345**	**-.00315**	**1.4875**	**.00908**
Stddev	.00011	.00011	.00028	.0677	.00001
%RSD	877.87	3.3036	8.9190	4.5521	.16175
#1	.00009	.00337	-.00335	1.5354	.00909
#2	-.00006	.00353	-.00295	1.4396	.00907
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-15-A Acquired: 6/13/2022 18:16:50 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.445**	**.00431**	**.04340**	**46.580**	**.00020**
Stddev	.070	.00005	.00017	.561	.00023
%RSD	.24534	1.1889	.38396	1.2039	115.09
#1	28.395	.00435	.04328	46.977	.00004
#2	28.494	.00428	.04352	46.184	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00119**	**39.291**	**-.00486**	**.00092**
Stddev	.00	.00034	.068	.00007	.00208
%RSD	.0007	28.679	.17221	1.5112	225.39
#1	25.02	.00095	39.339	-.00481	.00240
#2	25.02	.00144	39.244	-.00492	-.00055
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.8351**	**-.00032**	**1.1296**	**1.006**	**-.00007**
Stddev	.0489	.00012	.0156	.014	.00009
%RSD	.62357	36.835	1.3771	1.426	127.07
#1	7.8697	-.00024	1.1406	1.016	-.00001
#2	7.8006	-.00041	1.1186	.9961	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-15-A Acquired: 6/13/2022 18:16:50 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00108**	**-.00054**	**-.00087**	**.9990**
Stddev	.00158	.00012	.00073	.0007
%RSD	146.40	22.241	83.935	.0694
#1	-.00219	-.00062	-.00035	.9995
#2	.00004	-.00045	-.00139	.9985
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3080.4**	**2394.8**	**23025.**	**3388.6**
Stddev	5.4	5.1	54.	25.0
%RSD	.17480	.21428	.23272	.73757
#1	3084.2	2398.4	23063.	3370.9
#2	3076.6	2391.2	22987.	3406.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.452%	99.289%	97.814%	98.013%
Range				

Sample Name: 480-198665-A-16-A Acquired: 6/13/2022 18:20:41 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.00636**	**.00007**	**.53270**	**.04850**
Stddev	.00103	.01206	.00019	.00127	.00013
%RSD	297.83	189.55	287.95	.23873	.26104
#1	.00038	.01489	.00020	.53180	.04841
#2	-.00107	-.00217	-.00007	.53360	.04859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**131.22**	**.00076**	**-.0430**	**.00015**
Stddev	.00002	.01	.00023	.0131	.00012
%RSD	44.970	.00732	30.459	30.46	82.368
#1	.00006	131.21	.00059	-.0522	.00023
#2	.00003	131.23	.00092	-.0337	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00622**	**.00448**	**.01857**	**1.5639**	**.00924**
Stddev	.00005	.00031	.00283	.0013	.00026
%RSD	.79351	6.9718	15.254	.08578	2.7972
#1	.00618	.00426	.02058	1.5629	.00943
#2	.00625	.00470	.01657	1.5648	.00906
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-16-A Acquired: 6/13/2022 18:20:41 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**75.117**	**.00280**	**.01337**	**58.897**	**.00186**
Stddev	.266	.00004	.00026	.014	.00024
%RSD	.35351	1.4051	1.9202	.02403	13.107
#1	74.929	.00277	.01319	58.907	.00203
#2	75.304	.00282	.01355	58.887	.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00114**	F **144.33**	**-.00272**	**.00208**
Stddev	.00	.00033	.37	.00114	.00591
%RSD	.0065	28.747	.25706	41.868	284.14
#1	25.02	.00091	144.06	-.00352	.00625
#2	25.02	.00138	144.59	-.00191	-.00210
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.7110**	**-.00036**	**1.3792**	**.9977**	**.00051**
Stddev	.0134	.00020	.0033	.0052	.00036
%RSD	.23480	54.779	.23966	.5218	71.392
#1	5.7015	-.00051	1.3815	.9941	.00025
#2	5.7205	-.00022	1.3769	1.001	.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-16-A Acquired: 6/13/2022 18:20:41 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00055**	**-.00143**	**.00206**	**.9990**
Stddev	.00056	.00010	.00026	.0003
%RSD	100.73	7.2303	12.421	.0329
#1	.00016	-.00136	.00224	.9992
#2	.00095	-.00150	.00188	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2916.3**	**2318.5**	**22230.**	**3357.3**
Stddev	15.3	12.4	71.	9.8
%RSD	.52336	.53598	.32067	.29055
#1	2905.6	2309.7	22280.	3364.2
#2	2927.1	2327.3	22180.	3350.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.420%	96.127%	94.437%	97.109%
Range				

Sample Name: 480-198665-A-17-A Acquired: 6/13/2022 18:24:33 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00128**	**-.02648**	**.00076**	**.52411**	**.03492**
Stddev	.00015	.00252	.00091	.00101	.00006
%RSD	11.374	9.5067	120.29	.19253	.18041
#1	-.00139	-.02470	.00140	.52482	.03497
#2	-.00118	-.02826	.00011	.52339	.03488
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**62.067**	**.00037**	**-.0380**	**.00015**
Stddev	.00011	.267	.00000	.0184	.00003
%RSD	227.19	.43088	.12182	48.48	20.005
#1	-.00003	62.256	.00037	-.0510	.00018
#2	.00013	61.878	.00037	-.0250	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00859**	**-.00363**	**1.6218**	**.00604**
Stddev	.00043	.00003	.00124	.0244	.00240
%RSD	178.43	.36820	34.168	1.5051	39.702
#1	-.00006	.00857	-.00451	1.6391	.00434
#2	.00055	.00861	-.00276	1.6045	.00773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-17-A Acquired: 6/13/2022 18:24:33 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.403**	**.00109**	**.22483**	**77.120**	**.00053**
Stddev	.003	.00004	.00033	.340	.00026
%RSD	.01225	3.6890	.14482	.44141	49.987
#1	25.405	.00106	.22506	77.361	.00034
#2	25.400	.00112	.22460	76.879	.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00129**	F **110.35**	**-.00235**	**.00278**
Stddev	.00	.00076	.12	.00117	.00062
%RSD	.0003	59.044	.10927	49.794	22.464
#1	25.04	.00075	110.44	-.00317	.00234
#2	25.04	.00183	110.27	-.00152	.00322
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.6831**	**-.00027**	**1.4559**	**.9984**	**.00017**
Stddev	.0604	.00005	.0092	.0060	.00085
%RSD	.78660	19.675	.63113	.5990	502.64
#1	7.7258	-.00031	1.4624	.9941	-.00043
#2	7.6404	-.00024	1.4494	1.003	.00077
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-17-A Acquired: 6/13/2022 18:24:33 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00171**	**-.00019**	**.00249**	**.9988**
Stddev	.00024	.00002	.00031	.0007
%RSD	14.156	9.1382	12.574	.0732
#1	.00188	-.00021	.00227	.9993
#2	.00154	-.00018	.00271	.9983
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3036.8**	**2393.3**	**23121.**	**3534.0**
Stddev	2.0	1.2	8.	7.8
%RSD	.06577	.04947	.03422	.22074
#1	3038.2	2392.5	23115.	3528.5
#2	3035.4	2394.2	23126.	3539.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.114%	99.228%	98.221%	102.22%
Range				

Sample Name: 480-198665-A-18-A Acquired: 6/13/2022 18:28:23 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00013**	**.00094**	**.51311**	**.01892**
Stddev	.00019	.02907	.00054	.00148	.00005
%RSD	657.43	22434.	57.729	.28836	.23925
#1	-.00010	-.02068	.00056	.51415	.01895
#2	.00016	.02043	.00132	.51206	.01889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**29.092**	**.00049**	**-.0452**	**.00014**
Stddev	.00004	.190	.00011	.0191	.00003
%RSD	134.39	.65249	21.818	42.17	21.659
#1	-.00006	29.226	.00057	-.0317	.00012
#2	-.00000	28.957	.00041	-.0587	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00567**	**.00414**	**1.7374**	**.01146**
Stddev	.00040	.00102	.00224	.0005	.00072
%RSD	3208.7	17.981	54.091	.02717	6.3217
#1	.00027	.00639	.00573	1.7370	.01197
#2	-.00029	.00495	.00256	1.7377	.01095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-18-A Acquired: 6/13/2022 18:28:23 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.120**	**.00314**	**.04756**	**50.573**	**.00009**
Stddev	.061	.00000	.00015	.266	.00030
%RSD	.26250	.15560	.31409	.52590	342.22
#1	23.077	.00313	.04767	50.762	-.00013
#2	23.163	.00314	.04746	50.385	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00132**	**41.174**	**-.00336**	**.00379**
Stddev	.00	.00094	.132	.00122	.00320
%RSD	.0035	71.107	.31972	36.272	84.506
#1	25.02	.00066	41.268	-.00423	.00606
#2	25.02	.00199	41.081	-.00250	.00153
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.8852**	**-.00072**	**.99992**	**.9985**	**.00061**
Stddev	.0213	.00076	.00644	.0045	.00038
%RSD	.30988	104.43	.64409	.4556	63.319
#1	6.9003	-.00126	1.0045	1.002	.00033
#2	6.8701	-.00019	.99537	.9953	.00088
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-18-A Acquired: 6/13/2022 18:28:23 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00083**	**-.00055**	**.00712**	**.9992**
Stddev	.00103	.00007	.00006	.0007
%RSD	124.09	12.767	.91211	.0711
#1	.00156	-.00060	.00707	.9987
#2	.00010	-.00050	.00717	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3082.3**	**2402.0**	**23012.**	**3411.0**
Stddev	.2	1.6	45.	34.0
%RSD	.00650	.06832	.19503	.99651
#1	3082.1	2400.8	23044.	3387.0
#2	3082.4	2403.1	22980.	3435.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.507%	99.587%	97.760%	98.661%
Range				

Sample Name: 480-198665-A-19-A Acquired: 6/13/2022 18:32:14 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.00984**	**.00478**	**.46361**	**.02581**
Stddev	.00073	.00088	.00036	.00219	.00007
%RSD	247.02	8.9019	7.5182	.47345	.27834
#1	.00022	.00922	.00503	.46517	.02586
#2	-.00081	.01046	.00452	.46206	.02576
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**21.060**	**.00013**	**-.0478**	**.00014**
Stddev	.00004	.161	.00011	.0167	.00001
%RSD	64.295	.76231	81.049	34.97	9.7680
#1	.00010	21.174	.00006	-.0596	.00015
#2	.00004	20.947	.00021	-.0360	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00369**	**-.00291**	**.77810**	**.00487**
Stddev	.00026	.00030	.00261	.01441	.00140
%RSD	248.10	8.0343	89.777	1.8526	28.747
#1	.00008	.00390	-.00106	.78829	.00586
#2	-.00029	.00348	-.00475	.76790	.00388
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-19-A Acquired: 6/13/2022 18:32:14 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.2308**	**.01601**	**.26042**	**72.765**	**.00050**
Stddev	.0143	.00009	.00056	.474	.00024
%RSD	.17408	.57898	.21345	.65138	48.244
#1	8.2410	.01608	.26081	73.100	.00067
#2	8.2207	.01595	.26002	72.430	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**-.00038**	**50.259**	**-.00350**	**-.00162**
Stddev	.00	.00082	.088	.00016	.00242
%RSD	.0061	213.06	.17473	4.4495	149.18
#1	25.03	-.00096	50.321	-.00339	.00009
#2	25.03	.00019	50.197	-.00361	-.00333
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.9191**	**-.00016**	**.60986**	**.9934**	**.00015**
Stddev	.0151	.00035	.00255	.0055	.00001
%RSD	.38560	218.61	.41880	.5509	4.8486
#1	3.9298	.00009	.61166	.9973	.00014
#2	3.9084	-.00041	.60805	.9896	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-19-A Acquired: 6/13/2022 18:32:14 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00048**	**-.00023**	**.00003**	**.9992**
Stddev	.00112	.00026	.00004	.0002
%RSD	234.25	109.17	137.90	.0157
#1	.00127	-.00005	.00006	.9993
#2	-.00031	-.00041	.00000	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3118.5**	**2436.0**	**23525.**	**3550.3**
Stddev	13.1	12.8	84.	45.5
%RSD	.42080	.52619	.35877	1.2825
#1	3127.7	2445.1	23465.	3518.1
#2	3109.2	2427.0	23585.	3582.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.618%	101.00%	99.939%	102.69%
Range				

Sample Name: 480-198665-A-20-A Acquired: 6/13/2022 18:36:05 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.03338**	**-.00007**	**.32051**	**.01826**
Stddev	.00049	.02799	.00073	.00123	.00002
%RSD	316.77	83.857	1029.2	.38459	.09867
#1	-.00050	.05317	-.00059	.32139	.01825
#2	.00019	.01359	.00045	.31964	.01827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**91.626**	**.00041**	**-.0356**	**.00013**
Stddev	.00006	.597	.00015	.0195	.00002
%RSD	236.89	.65185	35.778	54.62	17.289
#1	.00007	92.049	.00031	-.0219	.00015
#2	-.00002	91.204	.00052	-.0494	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00314**	**.02196**	**.53978**	**.00560**
Stddev	.00048	.00011	.00054	.01916	.00074
%RSD	708.47	3.4196	2.4558	3.5505	13.174
#1	-.00041	.00322	.02234	.55333	.00612
#2	.00027	.00307	.02158	.52623	.00508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-20-A Acquired: 6/13/2022 18:36:05 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**46.759**	**.02373**	**.01219**	**40.116**	**.00089**
Stddev	.062	.00008	.00020	.209	.00017
%RSD	.13183	.35142	1.6027	.52193	19.093
#1	46.716	.02368	.01205	40.264	.00077
#2	46.803	.02379	.01233	39.968	.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00033**	**79.782**	**-.00234**	**-.00070**
Stddev	.00	.00111	.017	.00307	.00207
%RSD	.0009	335.82	.02106	131.52	297.13
#1	25.02	-.00045	79.770	-.00016	-.00216
#2	25.02	.00112	79.794	-.00451	.00077
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2524**	**-.00021**	**.36958**	**.9985**	**.00137**
Stddev	.0462	.00067	.00215	.0011	.00011
%RSD	.88044	316.93	.58209	.1101	8.2069
#1	5.2851	.00026	.37110	.9977	.00129
#2	5.2197	-.00069	.36806	.9993	.00145
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198665-A-20-A Acquired: 6/13/2022 18:36:05 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00073**	**-.00069**	**.00248**	**.9987**
Stddev	.00168	.00042	.00018	.0008
%RSD	229.36	61.270	7.2453	.0786
#1	.00192	-.00039	.00261	.9993
#2	-.00046	-.00099	.00235	.9982
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3012.8**	**2373.6**	**22869.**	**3424.8**
Stddev	3.8	3.0	71.	17.9
%RSD	.12643	.12619	.30851	.52350
#1	3015.5	2375.7	22919.	3412.1
#2	3010.1	2371.4	22819.	3437.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.378%	98.408%	97.153%	99.059%
Range				

Sample Name: MB 480-629664/1-A Acquired: 6/13/2022 18:39:56 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.00118**	**-.00209**	**.00053**	**.00000**
Stddev	.00049	.00703	.00081	.00027	.00001
%RSD	127.44	598.19	38.653	50.105	1493.2
#1	-.00073	.00615	-.00266	.00072	.00001
#2	-.00004	-.00380	-.00152	.00034	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.03509**	**-.00001**	**-.0471**	**.00002**
Stddev	.00000	.00297	.00006	.0281	.00001
%RSD	5.3426	8.4584	599.03	59.62	24.230
#1	.00008	.03719	-.00005	-.0273	.00002
#2	.00009	.03299	.00003	-.0670	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.00313**	**-.01141**	**.02607**	**.00125**
Stddev	.00006	.00007	.00037	.01367	.00120
%RSD	16.361	2.0762	3.2782	52.425	95.845
#1	-.00041	.00318	-.01114	.01640	.00210
#2	-.00032	.00309	-.01167	.03573	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629664/1-A Acquired: 6/13/2022 18:39:56 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00240**	**-.00022**	**-.00018**	**.04145**	**.00016**
Stddev	.00588	.00009	.00003	.02156	.00038
%RSD	245.25	42.655	16.416	52.021	230.67
#1	.00656	-.00029	-.00016	.05669	-.00010
#2	-.00176	-.00015	-.00020	.02620	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00059**	**.01883**	**-.00149**	**.00112**
Stddev	.00	.00165	.00060	.00077	.00205
%RSD	.0008	281.04	3.1772	51.740	183.04
#1	25.02	-.00175	.01841	-.00203	-.00033
#2	25.02	.00058	.01926	-.00094	.00257
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.07014**	**.00003**	**.00017**	**.9905**	**-.00002**
Stddev	.01535	.00026	.00017	.0003	.00005
%RSD	21.879	859.68	98.426	.0265	258.86
#1	-.05929	-.00015	.00029	.9907	-.00005
#2	-.08099	.00021	.00005	.9903	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629664/1-A Acquired: 6/13/2022 18:39:56 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00023**	**-.00109**	**.9996**
Stddev	.00108	.00051	.00005	.0001
%RSD	1228.2	225.72	4.2353	.0145
#1	.00068	.00014	-.00113	.9995
#2	-.00085	-.00059	-.00106	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3411.4**	**2515.1**	**24703.**	**3579.7**
Stddev	1.0	2.1	56.	7.4
%RSD	.03054	.08487	.22699	.20741
#1	3410.7	2513.6	24663.	3574.4
#2	3412.2	2516.6	24742.	3584.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	104.60%	104.28%	104.94%	103.54%
Range				

Sample Name: LCS 480-629664/2-A Acquired: 6/13/2022 18:43:51 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04566**	**9.3026**	**.18274**	**.19277**	**.19964**
Stddev	.00041	.0687	.00038	.00128	.00052
%RSD	.89810	.73874	.20544	.66511	.26086
#1	.04537	9.3512	.18247	.19187	.19927
#2	.04595	9.2540	.18300	.19368	.20001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18743**	**8.8239**	**.17852**	**-.0583**	**.17711**
Stddev	.00132	.0730	.00041	.0215	.00018
%RSD	.70418	.82770	.23042	36.96	.10152
#1	.18837	8.8755	.17822	-.0735	.17698
#2	.18650	8.7722	.17881	-.0430	.17723
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18606**	**.18227**	**9.0071**	**8.8496**	**.18039**
Stddev	.00248	.00038	.0315	.0522	.00142
%RSD	1.3316	.20769	.34927	.58952	.78753
#1	.18431	.18254	9.0294	8.8865	.18139
#2	.18781	.18201	8.9849	8.8127	.17938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629664/2-A Acquired: 6/13/2022 18:43:51 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4087**	**.18364**	**.18876**	**8.8710**	**.17454**
Stddev	.0761	.00016	.00036	.0795	.00006
%RSD	.80841	.08870	.18851	.89632	.03555
#1	9.3549	.18352	.18902	8.9272	.17450
#2	9.4624	.18375	.18851	8.8147	.17459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.76**	**.17628**	**9.1440**	**.18536**	**.18453**
Stddev	.00	.00042	.0182	.00085	.00403
%RSD	.0028	.23771	.19874	.45838	2.1845
#1	24.76	.17599	9.1312	.18476	.18167
#2	24.76	.17658	9.1569	.18596	.18738
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.8096**	**.22216**	**.18775**	**1.002**	**.18056**
Stddev	.0644	.00033	.00197	.000	.00016
%RSD	.73141	.14930	1.0491	.0159	.08804
#1	8.8552	.22192	.18914	1.002	.18044
#2	8.7640	.22239	.18636	1.002	.18067
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629664/2-A Acquired: 6/13/2022 18:43:51 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.18494**	**.17757**	**.17805**	**1.000**
Stddev	.00062	.00021	.00132	.002
%RSD	.33398	.11946	.74243	.1995
#1	.18537	.17742	.17711	1.002
#2	.18450	.17772	.17898	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3230.2**	**2484.9**	**23948.**	**3542.2**
Stddev	3.4	3.2	183.	31.9
%RSD	.10414	.12870	.76588	.89931
#1	3232.5	2487.2	24078.	3519.6
#2	3227.8	2482.7	23819.	3564.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.042%	103.03%	101.74%	102.45%
Range				

Sample Name: 480-198787-A-1-A Acquired: 6/13/2022 18:47:35 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**.03653**	**.00228**	**.38028**	**.00599**
Stddev	.00014	.00358	.00195	.00021	.00001
%RSD	26.873	9.7888	85.764	.05645	.15018
#1	-.00063	.03400	.00365	.38013	.00599
#2	-.00043	.03906	.00090	.38044	.00600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**7.1466**	**.00069**	**-.0342**	**.00014**
Stddev	.00002	.0023	.00001	.0398	.00002
%RSD	26.264	.03242	1.5729	116.2	14.839
#1	.00006	7.1449	.00068	-.0061	.00012
#2	.00008	7.1482	.00070	-.0623	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00277**	**.03507**	**11.834**	**.00450**
Stddev	.00004	.00078	.00168	.026	.00092
%RSD	16.558	28.225	4.7951	.21574	20.563
#1	.00021	.00332	.03388	11.852	.00515
#2	.00027	.00221	.03626	11.816	.00384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198787-A-1-A Acquired: 6/13/2022 18:47:35 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**110.15**	**.00043**	**.00822**	**253.69**	**-.00001**
Stddev	.14	.00000	.00019	.22	.00019
%RSD	.13116	1.0932	2.2804	.08659	1984.9
#1	110.05	.00043	.00808	253.85	-.00015
#2	110.25	.00043	.00835	253.54	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00049**	**84.244**	**-.00294**	**.06943**
Stddev	.00	.00049	.036	.00111	.00446
%RSD	.0047	101.02	.04251	37.634	6.4204
#1	25.03	.00014	84.218	-.00372	.06628
#2	25.02	.00084	84.269	-.00216	.07258
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4880**	**-.00069**	**.07426**	**.9917**	**.00060**
Stddev	.0180	.00012	.00037	.0030	.00014
%RSD	1.2085	17.537	.50236	.2978	24.019
#1	1.4753	-.00060	.07452	.9938	.00071
#2	1.5007	-.00077	.07399	.9896	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198787-A-1-A Acquired: 6/13/2022 18:47:35 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00153**	**-.00108**	**.00294**	**.9990**
Stddev	.00043	.00010	.00046	.0007
%RSD	28.324	9.6805	15.593	.0662
#1	-.00123	-.00116	.00326	.9994
#2	-.00184	-.00101	.00262	.9985
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2852.8**	**2325.5**	**22021.**	**3446.2**
Stddev	1.9	1.5	153.	2.5
%RSD	.06594	.06371	.69576	.07143
#1	2854.2	2326.5	22129.	3448.0
#2	2851.5	2324.4	21913.	3444.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.473%	96.415%	93.550%	99.681%
Range				

Sample Name: CCV-7018483 Acquired: 6/13/2022 18:51:34 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96663**	**47.513**	**.97883**	**.99162**	**.96234**
Stddev	.00485	.332	.00240	.00049	.00440
%RSD	.50198	.69807	.24548	.04952	.45712
#1	.96320	47.747	.98053	.99197	.96546
#2	.97006	47.278	.97713	.99127	.95923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96194**	**47.478**	**.97195**	**.9716**	**.96470**
Stddev	.00564	.385	.00039	.0120	.00082
%RSD	.58650	.81042	.04008	1.238	.08474
#1	.96593	47.750	.97168	.9801	.96412
#2	.95795	47.206	.97223	.9631	.96528
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99796**	**.95935**	**48.298**	**47.003**	**.93505**
Stddev	.00400	.00111	.093	.233	.00422
%RSD	.40114	.11575	.19243	.49647	.45127
#1	.99513	.95857	48.364	47.169	.93803
#2	1.0008	.96014	48.233	46.838	.93207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/13/2022 18:51:34 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.737**	**.97565**	**.98446**	**47.222**	**.97403**
Stddev	.241	.00285	.00014	.306	.00340
%RSD	.48406	.29240	.01468	.64759	.34901
#1	49.567	.97363	.98456	47.438	.97162
#2	49.907	.97767	.98436	47.006	.97643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.28**	**.96976**	**24.237**	**.96809**	**.97755**
Stddev	.02	.00300	.074	.00339	.00367
%RSD	.0557	.30897	.30414	.34989	.37570
#1	37.30	.96764	24.289	.97048	.98014
#2	37.27	.97188	24.185	.96569	.97495
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3454**	**.96373**	**.93709**	**1.485**	**.96797**
Stddev	.0487	.00147	.00572	.003	.00208
%RSD	.52070	.15257	.60996	.2279	.21501
#1	9.3798	.96269	.94114	1.488	.96650
#2	9.3110	.96477	.93305	1.483	.96944
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/13/2022 18:51:34 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.98770**	**.97238**	**1.0044**	**1.483**
Stddev	.00481	.00339	.0023	.003
%RSD	.48749	.34869	.23226	.1886
#1	.99110	.96998	1.0027	1.485
#2	.98429	.97478	1.0060	1.481
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2941.7**	**2419.3**	**22956.**	**3483.3**
Stddev	18.4	14.5	116.	43.1
%RSD	.62453	.59833	.50692	1.2363
#1	2954.7	2429.5	23038.	3452.8
#2	2928.7	2409.0	22874.	3513.7

Sample Name: CCB-7026764 Acquired: 6/13/2022 18:55:15 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.00918**	**-.00182**	**.00089**	**.00002**
Stddev	.00050	.00398	.00098	.00051	.00000
%RSD	89.669	43.378	53.854	57.574	11.153
#1	-.00091	.00637	-.00251	.00125	.00001
#2	-.00020	.01200	-.00112	.00053	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00101**	**.00007**	**-.0210**	**.00006**
Stddev	.00010	.00007	.00001	.0008	.00005
%RSD	224.44	6.7629	16.855	3.816	92.594
#1	-.00003	-.00106	.00006	-.0216	.00010
#2	.00012	-.00096	.00008	-.0205	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00281**	**-.01408**	**.00276**	**.00219**
Stddev	.00004	.00035	.00307	.00624	.00131
%RSD	19.359	12.309	21.815	226.46	59.648
#1	-.00019	.00257	-.01191	.00717	.00127
#2	-.00025	.00306	-.01626	-.00166	.00311
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/13/2022 18:55:15 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00128**	**-.00016**	**.00028**	**.02212**	**.00012**
Stddev	.00200	.00010	.00009	.00258	.00002
%RSD	156.54	65.185	31.597	11.653	17.954
#1	.00269	-.00008	.00034	.02029	.00010
#2	-.00014	-.00023	.00022	.02394	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00001**	**-.00894**	**-.00051**	**.00189**
Stddev	.00	.00097	.00245	.00048	.00359
%RSD	.0029	14612.	27.357	93.193	189.39
#1	25.02	.00068	-.00721	-.00017	.00443
#2	25.02	-.00069	-.01068	-.00085	-.00064
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.07482**	**-.00002**	**-.00005**	**.9978**	**-.00064**
Stddev	.01662	.00029	.00014	.0074	.00014
%RSD	22.212	1466.7	269.03	.7410	22.419
#1	-.08658	.00019	.00005	.9925	-.00074
#2	-.06307	-.00023	-.00015	1.003	-.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/13/2022 18:55:15 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00033**	**-.00041**	**-.00255**	**.9986**
Stddev	.00037	.00003	.00041	.0002
%RSD	114.36	7.6764	15.865	.0221
#1	.00006	-.00039	-.00284	.9987
#2	.00059	-.00043	-.00227	.9984
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3367.8**	**2478.1**	**23870.**	**3426.0**
Stddev	2.9	4.6	50.	8.6
%RSD	.08552	.18364	.21065	.25021
#1	3369.8	2481.3	23834.	3432.1
#2	3365.8	2474.9	23905.	3419.9

Sample Name: CCVL-7028546 Acquired: 6/13/2022 18:59:12 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00544**	**.19033**	**.01454**	**.01951**	**.00214**
Stddev	.00009	.02862	.00025	.00001	.00004
%RSD	1.5904	15.035	1.6860	.07146	1.7814
#1	.00550	.21057	.01437	.01950	.00217
#2	.00538	.17010	.01472	.01952	.00211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00214**	**.48707**	**.00197**	**-.0485**	**.00389**
Stddev	.00000	.00350	.00012	.0265	.00013
%RSD	.22471	.71765	6.0938	54.52	3.3882
#1	.00214	.48955	.00205	-.0672	.00398
#2	.00213	.48460	.00188	-.0298	.00380
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00362**	**.01281**	**.04067**	**.40752**	**.02741**
Stddev	.00050	.00044	.00292	.04781	.00070
%RSD	13.708	3.4239	7.1851	11.733	2.5375
#1	.00327	.01250	.04273	.44132	.02692
#2	.00397	.01312	.03860	.37371	.02790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/13/2022 18:59:12 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19726**	**.00318**	**.01013**	**.92088**	**.00966**
Stddev	.00048	.00000	.00007	.00480	.00016
%RSD	.24581	.11087	.65208	.52083	1.6664
#1	.19692	.00318	.01018	.92427	.00977
#2	.19761	.00318	.01008	.91748	.00954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00951**	**.18200**	**.01881**	**.02494**
Stddev	.00	.00114	.00099	.00082	.00045
%RSD	.0037	11.977	.54600	4.3508	1.7979
#1	25.00	.01032	.18129	.01823	.02462
#2	25.00	.00871	.18270	.01939	.02525
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.40060**	**.00871**	**.00510**	F **.9962**	**.00453**
Stddev	.01081	.00027	.00002	.0050	.00030
%RSD	2.6982	3.0682	.43634	.5026	6.5658
#1	.40825	.00852	.00512	.9926	.00474
#2	.39296	.00890	.00509	.9997	.00432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/13/2022 18:59:12 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01984**	**.00513**	**.00820**	F **.9989**
Stddev	.00003	.00030	.00032	.0000
%RSD	.14050	5.8109	3.8994	.0033
#1	.01986	.00534	.00843	.9989
#2	.01982	.00492	.00797	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3373.6**	**2489.5**	**24333.**	**3467.2**
Stddev	3.5	5.2	18.	55.9
%RSD	.10335	.20875	.07312	1.6131
#1	3376.1	2493.2	24320.	3427.7
#2	3371.1	2485.9	24345.	3506.8

Sample Name: 480-198787-A-2-A Acquired: 6/13/2022 19:03:07 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.01512**	**.00172**	**.09293**	**.02619**
Stddev	.00037	.00230	.00043	.00049	.00009
%RSD	2756.0	15.207	24.959	.52913	.34908
#1	-.00025	.01350	.00203	.09327	.02626
#2	.00027	.01675	.00142	.09258	.02613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**38.865**	**.00028**	**-.0514**	**.00009**
Stddev	.00004	.287	.00023	.0096	.00014
%RSD	121.29	.73788	80.644	18.58	167.59
#1	.00006	39.068	.00044	-.0582	-.00002
#2	.00000	38.662	.00012	-.0447	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.00313**	**.26197**	**2.3393**	**.00288**
Stddev	.00009	.00040	.00333	.0197	.00041
%RSD	55.789	12.743	1.2695	.84020	14.374
#1	.00010	.00284	.26432	2.3532	.00317
#2	.00023	.00341	.25962	2.3254	.00259
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198787-A-2-A Acquired: 6/13/2022 19:03:07 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.288**	**.08950**	**.00019**	**14.606**	**.00025**
Stddev	.073	.00058	.00011	.097	.00015
%RSD	.65063	.64977	60.257	.66362	60.497
#1	11.340	.08991	.00027	14.675	.00014
#2	11.236	.08909	.00011	14.538	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00042**	**18.476**	**-.00049**	**.00006**
Stddev	.00	.00114	.047	.00017	.00008
%RSD	.0003	271.77	.25571	34.902	129.37
#1	25.02	.00122	18.509	-.00037	.00011
#2	25.02	-.00039	18.442	-.00061	.00001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.7110**	**-.00021**	**.70557**	**.9954**	**.00091**
Stddev	.0326	.00035	.00433	.0063	.00011
%RSD	1.9059	160.88	.61332	.6300	11.570
#1	1.7341	-.00046	.70863	.9999	.00099
#2	1.6880	.00003	.70251	.9910	.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198787-A-2-A Acquired: 6/13/2022 19:03:07 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00078**	**-.00021**	**.00461**	**.9989**
Stddev	.00024	.00024	.00003	.0002
%RSD	31.362	115.56	.62032	.0176
#1	-.00061	-.00038	.00459	.9988
#2	-.00095	-.00004	.00463	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3213.1**	**2465.0**	**23939.**	**3566.4**
Stddev	8.7	6.7	159.	42.3
%RSD	.27160	.27011	.66298	1.1863
#1	3219.2	2469.7	23827.	3536.4
#2	3206.9	2460.3	24051.	3596.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.518%	102.20%	101.70%	103.15%
Range				

Sample Name: 480-198787-A-3-A Acquired: 6/13/2022 19:06:59 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**.02549**	**-.00154**	**.03488**	**.00492**
Stddev	.00031	.01304	.00015	.00042	.00003
%RSD	51.632	51.174	9.8602	1.1956	.53475
#1	-.00081	.03471	-.00144	.03459	.00494
#2	-.00038	.01627	-.00165	.03517	.00491
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**21.558**	**.00019**	**-.0304**	**.00006**
Stddev	.00009	.171	.00017	.0085	.00003
%RSD	2574.1	.79127	89.884	27.86	47.347
#1	.00006	21.679	.00031	-.0244	.00004
#2	-.00007	21.437	.00007	-.0364	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00258**	**.99792**	**1.0589**	**.00194**
Stddev	.00003	.00070	.00220	.0253	.00122
%RSD	391.34	27.074	.22072	2.3900	62.704
#1	-.00003	.00208	.99948	1.0768	.00280
#2	.00001	.00307	.99637	1.0410	.00108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198787-A-3-A Acquired: 6/13/2022 19:06:59 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.442**	**.21989**	**.00030**	**28.575**	**.00003**
Stddev	.003	.00021	.00025	.178	.00049
%RSD	.02994	.09353	83.003	.62279	1626.6
#1	10.440	.21974	.00047	28.701	-.00032
#2	10.444	.22003	.00012	28.449	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00010**	**6.4113**	**-.00125**	**.00040**
Stddev	.00	.00174	.0109	.00033	.00027
%RSD	.0018	1787.4	.17070	26.267	67.475
#1	25.02	-.00132	6.4036	-.00148	.00021
#2	25.02	.00113	6.4190	-.00102	.00059
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5022**	**-.00007**	**.07845**	**.9961**	**.00059**
Stddev	.0338	.00025	.00061	.0045	.00024
%RSD	1.3489	333.94	.78102	.4501	40.945
#1	2.5261	-.00025	.07888	.9993	.00042
#2	2.4784	.00010	.07802	.9930	.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198787-A-3-A Acquired: 6/13/2022 19:06:59 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00045**	**-.00007**	**.00633**	**.9986**
Stddev	.00031	.00007	.00025	.0002
%RSD	69.180	93.560	3.8882	.0161
#1	.00023	-.00012	.00650	.9987
#2	.00068	-.00002	.00615	.9985
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3172.9**	**2445.9**	**23541.**	**3502.0**
Stddev	3.8	4.1	7.	33.1
%RSD	.12071	.16780	.02839	.94439
#1	3175.6	2448.8	23546.	3478.7
#2	3170.2	2443.0	23537.	3525.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.288%	101.41%	100.01%	101.29%
Range				

Sample Name: 480-198787-A-4-A Acquired: 6/13/2022 19:10:51 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.01406**	**-.00012**	**.01279**	**.00722**
Stddev	.00114	.02002	.00028	.00010	.00003
%RSD	346.79	142.33	238.51	.81135	.42511
#1	-.00113	-.00009	.00008	.01271	.00720
#2	.00048	.02822	-.00031	.01286	.00725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**12.581**	**.00031**	**-.0419**	**.00004**
Stddev	.00003	.005	.00000	.0080	.00000
%RSD	48.126	.03870	1.0520	19.20	10.218
#1	.00004	12.577	.00031	-.0476	.00005
#2	.00008	12.584	.00031	-.0362	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00364**	**.53802**	**1.4422**	**.00197**
Stddev	.00023	.00036	.00147	.0009	.00147
%RSD	117.44	9.9147	.27254	.05930	74.684
#1	.00035	.00390	.53698	1.4416	.00093
#2	.00003	.00339	.53906	1.4428	.00301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198787-A-4-A Acquired: 6/13/2022 19:10:51 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.050**	**.02426**	**-.00008**	**3.6512**	**.00015**
Stddev	.001	.00008	.00006	.0080	.00016
%RSD	.00505	.34837	76.402	.22022	105.24
#1	13.049	.02432	-.00004	3.6455	.00027
#2	13.050	.02420	-.00013	3.6569	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00017**	**11.495**	**-.00216**	**.00344**
Stddev	.00	.00006	.010	.00115	.00467
%RSD	.0022	32.046	.08673	53.169	135.80
#1	25.02	-.00021	11.502	-.00297	.00673
#2	25.02	-.00013	11.488	-.00135	.00014
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.54073**	**-.00030**	**.04063**	**.9950**	**.00031**
Stddev	.01901	.00011	.00027	.0070	.00011
%RSD	3.5163	37.650	.65681	.7016	37.071
#1	.52728	-.00022	.04044	.9901	.00038
#2	.55417	-.00038	.04081	1.0000	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198787-A-4-A Acquired: 6/13/2022 19:10:51 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00039**	**-.00018**	**.00262**	**.9990**
Stddev	.00061	.00007	.00004	.0010
%RSD	155.83	36.191	1.6083	.1022
#1	-.00004	-.00014	.00265	.9997
#2	.00083	-.00023	.00259	.9983
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3304.7**	**2503.2**	**24208.**	**3539.6**
Stddev	.7	4.6	8.	19.0
%RSD	.02232	.18362	.03509	.53590
#1	3305.2	2506.5	24214.	3553.0
#2	3304.2	2500.0	24202.	3526.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.33%	103.78%	102.84%	102.38%
Range				

Sample Name: 480-198787-A-5-A Acquired: 6/13/2022 19:14:43 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.01739**	**.00022**	**.03696**	**.02585**
Stddev	.00013	.02789	.00198	.00005	.00014
%RSD	56.716	160.38	881.14	.13326	.52952
#1	-.00014	-.00233	.00162	.03693	.02595
#2	-.00033	.03711	-.00118	.03700	.02576
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**50.814**	**.00070**	**-.0403**	**.00012**
Stddev	.00005	.158	.00004	.0105	.00004
%RSD	47.817	.31038	5.0883	26.13	31.418
#1	.00007	50.925	.00072	-.0328	.00009
#2	.00013	50.702	.00067	-.0477	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00384**	**.14470**	**3.8438**	**.00289**
Stddev	.00006	.00043	.00343	.0211	.00146
%RSD	49.657	11.335	2.3694	.54799	50.601
#1	.00008	.00414	.14228	3.8587	.00186
#2	.00016	.00353	.14713	3.8289	.00392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198787-A-5-A Acquired: 6/13/2022 19:14:43 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**53.207**	**.05390**	**.00012**	**6.5260**	**.00058**
Stddev	.102	.00022	.00008	.0217	.00015
%RSD	.19149	.41575	68.094	.33205	26.183
#1	53.279	.05406	.00018	6.5414	.00048
#2	53.135	.05374	.00006	6.5107	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**-.00043**	**66.428**	**.00029**	**.00152**
Stddev	.00	.00014	.006	.00133	.00053
%RSD	.0008	32.093	.00890	463.00	34.808
#1	25.03	-.00033	66.432	-.00065	.00190
#2	25.03	-.00053	66.424	.00123	.00115
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6094**	**.00002**	**.17240**	**.9939**	**.00102**
Stddev	.0081	.00022	.00039	.0018	.00021
%RSD	.50556	1043.8	.22549	.1801	20.537
#1	1.6152	.00018	.17267	.9926	.00117
#2	1.6037	-.00013	.17212	.9952	.00087
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198787-A-5-A Acquired: 6/13/2022 19:14:43 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00123**	**-.00089**	**.00248**	**.9993**
Stddev	.00024	.00013	.00037	.0019
%RSD	19.611	14.974	14.907	.1853
#1	-.00140	-.00080	.00222	.9980
#2	-.00106	-.00099	.00274	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3193.6**	**2469.5**	**24115.**	**3556.5**
Stddev	.1	2.2	8.	2.8
%RSD	.00219	.08731	.03143	.07822
#1	3193.6	2471.0	24120.	3554.6
#2	3193.7	2468.0	24109.	3558.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.922%	102.39%	102.44%	102.87%
Range				

Sample Name: 480-198787-A-6-A Acquired: 6/13/2022 19:18:35 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00072**	**.03064**	**.00012**	**.02030**	**.00640**
Stddev	.00012	.01471	.00046	.00036	.00000
%RSD	16.257	48.024	380.64	1.7902	.05335
#1	-.00063	.04104	-.00020	.02055	.00639
#2	-.00080	.02023	.00044	.02004	.00640
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**13.148**	**.00023**	**-.0637**	**.00008**
Stddev	.00002	.121	.00012	.0314	.00003
%RSD	49.538	.91870	50.922	49.25	45.752
#1	.00005	13.233	.00031	-.0858	.00005
#2	.00003	13.063	.00015	-.0415	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00364**	**.26580**	**1.5068**	**.00139**
Stddev	.00006	.00110	.00517	.0012	.00161
%RSD	21.478	30.229	1.9441	.07632	115.66
#1	.00024	.00441	.26945	1.5060	.00253
#2	.00032	.00286	.26215	1.5076	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198787-A-6-A Acquired: 6/13/2022 19:18:35 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6581**	**.05237**	**.00010**	**13.465**	**.00053**
Stddev	.0416	.00021	.00000	.131	.00044
%RSD	.43070	.40603	3.9016	.97321	81.620
#1	9.6287	.05222	.00009	13.558	.00084
#2	9.6875	.05252	.00010	13.373	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00052**	**5.9966**	**-.00162**	**.00274**
Stddev	.00	.00043	.0084	.00052	.00360
%RSD	.0054	83.599	.13936	32.039	131.32
#1	25.02	-.00082	6.0025	-.00125	.00528
#2	25.02	-.00021	5.9907	-.00199	.00020
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8544**	**-.00041**	**.04307**	**.9942**	**.00060**
Stddev	.0053	.00026	.00045	.0000	.00003
%RSD	.28481	64.952	1.0545	.0021	5.6958
#1	1.8581	-.00059	.04339	.9941	.00057
#2	1.8507	-.00022	.04275	.9942	.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198787-A-6-A Acquired: 6/13/2022 19:18:35 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00021**	**-.00013**	**.00323**	**.9996**
Stddev	.00136	.00010	.00010	.0006
%RSD	631.84	75.605	3.0520	.0613
#1	-.00117	-.00006	.00330	1.000
#2	.00074	-.00021	.00316	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3294.5**	**2505.9**	**24599.**	**3597.3**
Stddev	10.0	2.7	1.	24.7
%RSD	.30442	.10946	.00231	.68734
#1	3301.6	2507.8	24598.	3579.8
#2	3287.4	2503.9	24599.	3614.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.01%	103.89%	104.50%	104.05%
Range				

Sample Name: 480-198787-A-7-A Acquired: 6/13/2022 19:22:28 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.02910**	**-.00120**	**.09052**	**.02897**
Stddev	.00029	.01482	.00026	.00023	.00020
%RSD	78.302	50.931	21.296	.25000	.68829
#1	-.00017	.01862	-.00138	.09068	.02883
#2	-.00058	.03958	-.00102	.09036	.02911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**38.617**	**.00023**	**-.0428**	**.00003**
Stddev	.00004	.287	.00011	.0056	.00007
%RSD	122.49	.74375	49.805	12.98	206.12
#1	.00007	38.820	.00015	-.0389	-.00002
#2	.00000	38.414	.00031	-.0468	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**.00448**	**.13615**	**2.2356**	**.00257**
Stddev	.00042	.00035	.00041	.0580	.00017
%RSD	69.050	7.6991	.30068	2.5941	6.7470
#1	.00031	.00473	.13586	2.2766	.00270
#2	.00090	.00424	.13644	2.1946	.00245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198787-A-7-A Acquired: 6/13/2022 19:22:28 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5972**	**.03927**	**.00008**	**10.941**	**.00045**
Stddev	.0264	.00020	.00014	.091	.00006
%RSD	.27475	.51402	169.89	.83551	14.080
#1	9.5785	.03912	.00018	11.006	.00041
#2	9.6158	.03941	-.00002	10.876	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00026**	**17.554**	**-.00225**	**.00162**
Stddev	.00	.00013	.039	.00028	.00017
%RSD	.0043	51.205	.22257	12.295	10.233
#1	25.02	.00036	17.582	-.00245	.00174
#2	25.02	.00017	17.526	-.00206	.00151
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6299**	**-.00035**	**.70045**	**.9967**	**.00032**
Stddev	.0107	.00065	.00436	.0043	.00012
%RSD	.65517	183.99	.62311	.4344	37.315
#1	1.6375	.00011	.70353	.9936	.00024
#2	1.6224	-.00082	.69736	.9997	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198787-A-7-A Acquired: 6/13/2022 19:22:28 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00091**	**-.00042**	**.00216**	**.9990**
Stddev	.00077	.00025	.00038	.0012
%RSD	83.777	59.518	17.599	.1246
#1	-.00037	-.00060	.00189	.9999
#2	-.00146	-.00024	.00243	.9981
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3207.9**	**2455.5**	**23765.**	**3489.9**
Stddev	8.2	1.2	94.	12.7
%RSD	.25697	.04701	.39660	.36378
#1	3213.7	2456.3	23832.	3480.9
#2	3202.0	2454.7	23698.	3498.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.359%	101.80%	100.96%	100.94%
Range				

Sample Name: 480-198813-D-1-A Acquired: 6/13/2022 19:26:19 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.38575**	**-.00105**	**.02037**	**.06822**
Stddev	.00073	.01586	.00025	.00023	.00011
%RSD	350.15	4.1114	23.955	1.1340	.15980
#1	-.00031	.37453	-.00123	.02054	.06829
#2	.00073	.39696	-.00087	.02021	.06814
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**45.834**	**.00006**	**-.0425**	**.00017**
Stddev	.00003	.442	.00005	.0037	.00017
%RSD	54.615	.96373	95.460	8.625	103.29
#1	.00003	46.147	.00002	-.0451	.00005
#2	.00007	45.522	.00010	-.0399	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**.00308**	**.36507**	**.96059**	**.00509**
Stddev	.00034	.00073	.00165	.03391	.00071
%RSD	68.240	23.793	.45118	3.5301	13.995
#1	.00026	.00360	.36390	.93661	.00559
#2	.00075	.00256	.36623	.98457	.00458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-1-A Acquired: 6/13/2022 19:26:19 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.632**	**.03775**	**.00065**	**11.111**	**.00023**
Stddev	.007	.00013	.00033	.080	.00025
%RSD	.06226	.34555	50.813	.71653	105.54
#1	10.627	.03766	.00042	11.168	.00006
#2	10.637	.03784	.00088	11.055	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00004**	**4.6751**	**-.00202**	**-.00022**
Stddev	.00	.00001	.0077	.00048	.00122
%RSD	.0010	23.972	.16520	24.041	566.27
#1	25.02	-.00004	4.6805	-.00236	.00065
#2	25.02	-.00005	4.6696	-.00167	-.00108
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.2774**	**-.00010**	**.12308**	**.9994**	**.01031**
Stddev	.0101	.00042	.00109	.0056	.00371
%RSD	.23568	428.13	.88626	.5565	35.952
#1	4.2845	-.00039	.12385	1.003	.01293
#2	4.2703	.00020	.12231	.9955	.00769
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-1-A Acquired: 6/13/2022 19:26:19 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00041**	**.00083**	**-.00010**	**1.000**
Stddev	.00029	.00009	.00013	.000
%RSD	71.171	11.165	135.91	.0002
#1	.00021	.00077	-.00000	1.000
#2	.00062	.00090	-.00019	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3162.3**	**2439.9**	**23328.**	**3442.8**
Stddev	9.9	6.9	50.	32.9
%RSD	.31185	.28346	.21642	.95519
#1	3169.2	2444.8	23292.	3419.5
#2	3155.3	2435.0	23364.	3466.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.961%	101.16%	99.102%	99.580%
Range				

Sample Name: 480-198813-D-2-A Acquired: 6/13/2022 19:30:11 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**5.4290**	**.00917**	**.20863**	**.50392**
Stddev	.00043	.0410	.00330	.00015	.00090
%RSD	56.164	.75462	35.979	.07404	.17849
#1	-.00107	5.4579	.01151	.20874	.50328
#2	-.00046	5.4000	.00684	.20852	.50455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**75.784**	**.00040**	**-.0769**	**.00502**
Stddev	.00003	.165	.00001	.0001	.00011
%RSD	16.913	.21808	2.5645	.1681	2.1861
#1	.00017	75.900	.00041	-.0768	.00510
#2	.00021	75.667	.00040	-.0769	.00494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00796**	**.01041**	**9.7239**	**9.8493**	**.00981**
Stddev	.00031	.00006	.0122	.0255	.00142
%RSD	3.8431	.57223	.12520	.25868	14.485
#1	.00774	.01037	9.7325	9.8673	.01081
#2	.00817	.01045	9.7153	9.8313	.00880
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-2-A Acquired: 6/13/2022 19:30:11 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.138**	**10.554**	**-.00018**	**12.654**	**.00995**
Stddev	.003	.023	.00011	.042	.00011
%RSD	.01546	.22073	59.835	.33437	1.1020
#1	17.140	10.538	-.00025	12.684	.00987
#2	17.137	10.571	-.00010	12.624	.01002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**.00586**	**1.1327**	**-.00002**	**.00026**
Stddev	.00	.00039	.0027	.00037	.00084
%RSD	.0009	6.6627	.23466	1752.0	328.11
#1	25.12	.00558	1.1346	-.00028	-.00034
#2	25.12	.00613	1.1309	.00024	.00085
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.226**	**-.00031**	**.23318**	**.9997**	**.12676**
Stddev	.034	.00019	.00051	.0011	.00175
%RSD	.27477	60.570	.22054	.1059	1.3783
#1	12.250	-.00044	.23354	1.000	.12553
#2	12.203	-.00018	.23282	.9990	.12800
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-2-A Acquired: 6/13/2022 19:30:11 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00163**	**.00942**	**.01719**	**.9999**
Stddev	.00042	.00005	.00002	.0001
%RSD	25.993	.54517	.09983	.0109
#1	-.00192	.00946	.01720	.9998
#2	-.00133	.00939	.01717	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3138.9**	**2496.5**	**23647.**	**3625.9**
Stddev	6.7	2.7	14.	9.8
%RSD	.21190	.10621	.06030	.26904
#1	3134.2	2494.6	23637.	3619.0
#2	3143.6	2498.4	23657.	3632.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.246%	103.50%	100.46%	104.88%
Range				

Sample Name: 480-198813-D-3-A Acquired: 6/13/2022 19:34:07 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.31261**	**.00125**	**.16859**	**1.0354**
Stddev	.00054	.02505	.00206	.00022	.0053
%RSD	745.55	8.0136	164.80	.12883	.51113
#1	.00046	.29489	-.00021	.16844	1.0391
#2	-.00031	.33032	.00271	.16874	1.0317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**166.12**	**.00060**	**-.0617**	**.00306**
Stddev	.00005	.26	.00005	.0239	.00008
%RSD	167.87	.15663	8.1089	38.80	2.6165
#1	-.00001	166.31	.00064	-.0448	.00312
#2	.00006	165.94	.00057	-.0787	.00300
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**.00401**	**.50818**	**1.9238**	**.01560**
Stddev	.00009	.00027	.00325	.0026	.00169
%RSD	12.862	6.7781	.64045	.13361	10.844
#1	.00079	.00381	.51048	1.9256	.01680
#2	.00065	.00420	.50588	1.9220	.01441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-3-A Acquired: 6/13/2022 19:34:07 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.051**	**4.6407**	**-.00010**	**37.006**	**.00508**
Stddev	.117	.0510	.00037	.116	.00055
%RSD	.32346	1.0987	363.96	.31358	10.805
#1	36.133	4.6767	.00016	37.088	.00546
#2	35.968	4.6046	-.00036	36.924	.00469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00108**	**1.4816**	**-.00132**	**-.00306**
Stddev	.00	.00155	.0004	.00190	.00433
%RSD	.0004	143.31	.02556	143.45	141.35
#1	25.02	-.00001	1.4813	.00002	-.00612
#2	25.02	.00218	1.4819	-.00267	-.00000
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.7813**	**-.00044**	**.34826**	**.9981**	**.00389**
Stddev	.0201	.00046	.00110	.0058	.00016
%RSD	.29622	106.16	.31709	.5840	4.1548
#1	6.7955	-.00076	.34905	.9940	.00377
#2	6.7671	-.00011	.34748	1.002	.00400
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-3-A Acquired: 6/13/2022 19:34:07 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00085**	**-.00031**	**.01206**	**.9976**
Stddev	.00061	.00011	.00023	.0017
%RSD	71.621	35.936	1.9340	.1717
#1	-.00042	-.00039	.01222	.9988
#2	-.00128	-.00023	.01189	.9963
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2989.8**	**2395.7**	**23181.**	**3545.8**
Stddev	4.8	2.3	105.	6.7
%RSD	.16164	.09512	.45311	.18815
#1	2986.4	2397.3	23107.	3550.5
#2	2993.2	2394.1	23255.	3541.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.673%	99.326%	98.477%	102.56%
Range				

Sample Name: CCV-7018483 Acquired: 6/13/2022 19:38:13 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95340**	**47.854**	**.97239**	**.99094**	**.96676**
Stddev	.00397	.186	.00758	.00084	.00198
%RSD	.41654	.38872	.77952	.08516	.20458
#1	.95059	47.986	.96703	.99034	.96816
#2	.95621	47.722	.97775	.99153	.96536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97302**	**48.015**	**.96808**	**.9280**	**.95925**
Stddev	.00243	.150	.00063	.0069	.00115
%RSD	.24941	.31162	.06513	.7435	.11972
#1	.97473	48.121	.96763	.9329	.95844
#2	.97130	47.909	.96853	.9231	.96007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0054**	**.95779**	**48.420**	**47.761**	**.94467**
Stddev	.0066	.00386	.105	.055	.00104
%RSD	.65686	.40262	.21638	.11574	.10987
#1	1.0007	.95507	48.494	47.801	.94540
#2	1.0100	.96052	48.346	47.722	.94394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/13/2022 19:38:13 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.637**	**.98656**	**.99065**	**47.767**	**.97140**
Stddev	.245	.00461	.00174	.066	.00051
%RSD	.49356	.46759	.17540	.13722	.05213
#1	49.464	.98330	.98942	47.813	.97176
#2	49.810	.98983	.99188	47.721	.97104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.17**	**.96316**	**23.990**	**.96013**	**.97960**
Stddev	.00	.00162	.007	.00036	.00176
%RSD	.0070	.16803	.03025	.03793	.17943
#1	37.17	.96202	23.985	.96038	.97836
#2	37.17	.96431	23.995	.95987	.98084
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4248**	**.95728**	**.94849**	**1.474**	**.96746**
Stddev	.0146	.00148	.00090	.006	.00421
%RSD	.15450	.15504	.09490	.4199	.43521
#1	9.4145	.95624	.94913	1.479	.96448
#2	9.4350	.95833	.94786	1.470	.97044
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/13/2022 19:38:13 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99187**	**.96938**	**1.0093**	**1.491**
Stddev	.00263	.00598	.0050	.001
%RSD	.26562	.61696	.49380	.0418
#1	.99001	.96516	1.0058	1.491
#2	.99373	.97361	1.0129	1.492
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2931.4**	**2408.5**	**22440.**	**3333.8**
Stddev	9.6	6.1	143.	4.8
%RSD	.32617	.25174	.63746	.14457
#1	2938.2	2412.8	22541.	3330.4
#2	2924.6	2404.2	22339.	3337.2

Sample Name: CCB-7026764 Acquired: 6/13/2022 19:41:54 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00093**	**.00002**	**-.00124**	**.00029**	**.00002**
Stddev	.00022	.00241	.00008	.00056	.00002
%RSD	23.836	13619.	6.1490	190.15	97.838
#1	-.00109	.00172	-.00129	.00069	.00004
#2	-.00078	-.00169	-.00118	-.00010	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**-.00180**	**.00007**	**-.0299**	**.00005**
Stddev	.00004	.00326	.00008	.0243	.00003
%RSD	31.746	180.77	116.80	81.24	55.388
#1	.00009	-.00410	.00013	-.0471	.00003
#2	.00015	.00050	.00001	-.0127	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.00232**	**-.01345**	**.02984**	**.00062**
Stddev	.00010	.00103	.00147	.01028	.00073
%RSD	22.958	44.437	10.905	34.449	117.96
#1	-.00053	.00305	-.01449	.02257	.00113
#2	-.00038	.00159	-.01241	.03710	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/13/2022 19:41:54 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00240**	**-.00009**	**.00016**	**-.00131**	**.00009**
Stddev	.00020	.00001	.00011	.01021	.00001
%RSD	8.5315	14.500	71.619	780.73	14.416
#1	-.00254	-.00010	.00023	-.00852	.00008
#2	-.00225	-.00008	.00008	.00591	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00066**	**-.01727**	**-.00112**	**.00112**
Stddev	.00	.00022	.00032	.00040	.00134
%RSD	.0014	33.191	1.8407	35.949	119.20
#1	25.02	-.00082	-.01705	-.00141	.00207
#2	25.02	-.00051	-.01750	-.00084	.00018
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.08913**	**-.00014**	**.00017**	**.9998**	**-.00013**
Stddev	.00707	.00002	.00005	.0006	.00035
%RSD	7.9296	13.050	30.190	.0574	267.37
#1	-.09413	-.00012	.00014	.9994	-.00038
#2	-.08413	-.00015	.00021	1.000	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/13/2022 19:41:54 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00063**	**-.00032**	**-.00228**	**.9992**
Stddev	.00111	.00006	.00028	.0004
%RSD	175.49	19.526	12.296	.0437
#1	-.00015	-.00037	-.00248	.9996
#2	.00142	-.00028	-.00208	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3393.1**	**2504.4**	**24021.**	**3405.3**
Stddev	.8	.3	252.	12.1
%RSD	.02283	.01328	1.0505	.35635
#1	3393.6	2504.2	23842.	3413.9
#2	3392.5	2504.6	24199.	3396.7

Sample Name: CCVL-7028546 Acquired: 6/13/2022 19:45:51 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00548**	**.18850**	**.01379**	**.01970**	**.00220**
Stddev	.00018	.02879	.00123	.00035	.00001
%RSD	3.2865	15.274	8.9099	1.7598	.51242
#1	.00561	.16814	.01466	.01995	.00220
#2	.00535	.20886	.01292	.01946	.00219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**.49948**	**.00198**	**-.0576**	**.00396**
Stddev	.00019	.00106	.00007	.0342	.00007
%RSD	9.2461	.21304	3.3993	59.49	1.6664
#1	.00192	.50023	.00203	-.0334	.00401
#2	.00219	.49873	.00193	-.0818	.00391
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00423**	**.01175**	**.03883**	**.48067**	**.02772**
Stddev	.00047	.00019	.00187	.00363	.00036
%RSD	11.081	1.5924	4.8218	.75528	1.2891
#1	.00390	.01188	.03750	.48324	.02747
#2	.00456	.01161	.04015	.47810	.02797
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/13/2022 19:45:51 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20693**	**.00332**	**.01009**	**.91812**	**.00961**
Stddev	.00451	.00005	.00025	.00975	.00016
%RSD	2.1801	1.4257	2.5252	1.0624	1.6413
#1	.21012	.00329	.01027	.92502	.00950
#2	.20374	.00336	.00991	.91122	.00972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00870**	**.17687**	**.01830**	**.02370**
Stddev	.00	.00005	.00284	.00150	.00046
%RSD	.0036	.59440	1.6055	8.2110	1.9447
#1	25.00	.00874	.17887	.01724	.02337
#2	25.00	.00867	.17486	.01936	.02403
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.39248**	**.00890**	**.00508**	F **.9940**	**.00500**
Stddev	.01361	.00013	.00005	.0035	.00033
%RSD	3.4682	1.4637	.99251	.3497	6.6167
#1	.38285	.00899	.00512	.9964	.00524
#2	.40210	.00881	.00505	.9915	.00477
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/13/2022 19:45:51 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01959**	**.00535**	**.00879**	F **.9978**
Stddev	.00006	.00034	.00034	.0000
%RSD	.32574	6.3264	3.8237	.0023
#1	.01955	.00511	.00902	.9979
#2	.01964	.00559	.00855	.9978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3374.4**	**2502.7**	**24008.**	**3474.3**
Stddev	4.5	2.5	1.	3.1
%RSD	.13445	.09866	.00533	.08863
#1	3377.7	2504.5	24009.	3472.1
#2	3371.2	2501.0	24007.	3476.5

Sample Name: 480-198813-D-3-Asd@5 Acquired: 6/13/2022 19:49:46 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**.03712**	**-.00092**	**.03305**	**.22077**
Stddev	.00001	.00754	.00028	.00041	.00067
%RSD	1.4488	20.301	30.819	1.2539	.30150
#1	-.00065	.03179	-.00112	.03276	.22124
#2	-.00066	.04244	-.00072	.03334	.22030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**33.607**	**.00024**	**-.0942**	**.00077**
Stddev	.00010	.099	.00007	.0234	.00011
%RSD	165.88	.29458	30.468	24.79	14.161
#1	.00014	33.677	.00029	-.0777	.00084
#2	-.00001	33.537	.00019	-.1107	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00228**	**.09529**	**.38482**	**.00286**
Stddev	.00020	.00012	.00373	.02681	.00029
%RSD	145.30	5.1910	3.9117	6.9663	10.248
#1	.00000	.00237	.09265	.40378	.00307
#2	-.00027	.00220	.09792	.36587	.00265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-3-Asd@5 Acquired: 6/13/2022 19:49:46 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.4588**	**.96461**	**-.00016**	**7.0568**	**.00107**
Stddev	.0122	.00291	.00015	.0664	.00032
%RSD	.16309	.30130	94.712	.94053	29.663
#1	7.4502	.96666	-.00005	7.1037	.00129
#2	7.4675	.96255	-.00026	7.0099	.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00006**	**.27234**	**-.00019**	**.00212**
Stddev	.00	.00146	.00391	.00119	.00240
%RSD	.0020	2314.5	1.4341	609.89	112.76
#1	25.02	-.00097	.26958	.00064	.00382
#2	25.02	.00109	.27510	-.00103	.00043
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.3142**	**-.00025**	**.07023**	**.9950**	**.00213**
Stddev	.0125	.00034	.00090	.0057	.00082
%RSD	.94910	135.72	1.2849	.5702	38.414
#1	1.3230	-.00049	.07087	.9910	.00271
#2	1.3053	-.00001	.06959	.9991	.00155
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-3-Asd@5 Acquired: 6/13/2022 19:49:46 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00037**	**.00042**	**.00078**	**.9989**
Stddev	.00031	.00011	.00086	.0008
%RSD	82.257	26.406	110.83	.0769
#1	.00059	.00034	.00138	.9994
#2	.00016	.00049	.00017	.9984
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3268.8**	**2498.1**	**23844.**	**3613.5**
Stddev	25.0	13.5	13.	43.5
%RSD	.76382	.53884	.05593	1.2047
#1	3251.1	2488.6	23834.	3644.3
#2	3286.4	2507.6	23853.	3582.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.23%	103.57%	101.29%	104.52%
Range				

Sample Name: 480-198813-D-3-APDS Acquired: 6/13/2022 19:53:40 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04971**	**10.280**	**.20802**	**.36702**	**1.1925**
Stddev	.00037	.105	.00209	.00042	.0090
%RSD	.74158	1.0222	1.0054	.11524	.75144
#1	.04945	10.354	.20950	.36672	1.1988
#2	.04997	10.206	.20654	.36732	1.1861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20913**	**170.91**	**.20110**	**-.0711**	**.20388**
Stddev	.00118	.85	.00053	.0050	.00013
%RSD	.56195	.49449	.26187	7.080	.06558
#1	.20997	171.51	.20147	-.0747	.20398
#2	.20830	170.31	.20073	-.0676	.20379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20785**	**.20654**	**10.339**	**11.643**	**.21138**
Stddev	.00017	.00089	.053	.049	.00506
%RSD	.08252	.43272	.51115	.42366	2.3932
#1	.20773	.20591	10.376	11.678	.21495
#2	.20797	.20718	10.301	11.609	.20780
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-3-APDS Acquired: 6/13/2022 19:53:40 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.659**	**4.7281**	**.20832**	**45.535**	**.20260**
Stddev	.043	.0201	.00010	.287	.00056
%RSD	.09325	.42484	.04860	.63014	.27882
#1	45.628	4.7423	.20839	45.738	.20300
#2	45.689	4.7139	.20825	45.332	.20220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.74**	**.20251**	**11.545**	**.21282**	**.20019**
Stddev	.00	.00055	.021	.00073	.00061
%RSD	.0134	.27085	.18534	.34185	.30446
#1	24.74	.20212	11.560	.21231	.19976
#2	24.74	.20290	11.529	.21334	.20062
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.577**	**.19912**	**.53347**	**.9970**	**.21061**
Stddev	.105	.00129	.00462	.0064	.00499
%RSD	.63628	.64793	.86663	.6452	2.3672
#1	16.651	.20003	.53674	1.002	.21413
#2	16.502	.19820	.53020	.9924	.20708
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-3-APDS Acquired: 6/13/2022 19:53:40 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20798**	**.20116**	**.21046**	**.9988**
Stddev	.00107	.00089	.00139	.0016
%RSD	.51267	.44379	.65963	.1640
#1	.20873	.20052	.21144	.9976
#2	.20722	.20179	.20948	1.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2900.9**	**2372.8**	**22691.**	**3499.4**
Stddev	14.5	12.8	92.	7.2
%RSD	.50074	.54039	.40514	.20484
#1	2890.7	2363.7	22756.	3504.5
#2	2911.2	2381.9	22626.	3494.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.948%	98.376%	96.395%	101.22%
Range				

Sample Name: 480-198813-D-3-B MS Acquired: 6/13/2022 19:57:35 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04651**	**9.9284**	**.19126**	**.36157**	**1.2205**
Stddev	.00014	.1105	.00177	.00036	.0168
%RSD	.29887	1.1132	.92567	.09953	1.3748
#1	.04642	10.007	.19251	.36182	1.2323
#2	.04661	9.8502	.19001	.36131	1.2086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19456**	**176.51**	**.18608**	**-.0315**	**.18937**
Stddev	.00288	2.29	.00017	.0255	.00006
%RSD	1.4812	1.2971	.09070	81.01	.03225
#1	.19660	178.13	.18620	-.0496	.18941
#2	.19252	174.90	.18596	-.0135	.18932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18920**	**.19019**	**9.7085**	**11.409**	**.20329**
Stddev	.00121	.00046	.1277	.108	.00454
%RSD	.63885	.24344	1.3154	.94413	2.2353
#1	.18834	.18986	9.7988	11.485	.20650
#2	.19005	.19052	9.6182	11.333	.20007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-3-B MS Acquired: 6/13/2022 19:57:35 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.821**	**4.8646**	**.19429**	**46.531**	**.18758**
Stddev	.194	.0223	.00029	.646	.00005
%RSD	.42368	.45932	.14959	1.3890	.02557
#1	45.684	4.8804	.19449	46.988	.18754
#2	45.958	4.8488	.19408	46.074	.18761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.76**	**.18926**	**10.892**	**.18992**	**.18918**
Stddev	.00	.00015	.031	.00096	.00202
%RSD	.0058	.08090	.28289	.50697	1.0690
#1	24.76	.18915	10.914	.19060	.19061
#2	24.76	.18937	10.870	.18924	.18775
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.204**	**.23338**	**.53725**	**1.004**	**.19467**
Stddev	.160	.00033	.00623	.001	.00135
%RSD	.98526	.14202	1.1590	.0649	.69185
#1	16.317	.23361	.54166	1.004	.19371
#2	16.091	.23314	.53285	1.004	.19562
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-3-B MS Acquired: 6/13/2022 19:57:35 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.18874**	**.18474**	**.19433**	**.9992**
Stddev	.00075	.00088	.00095	.0014
%RSD	.39501	.47687	.48655	.1365
#1	.18926	.18412	.19366	.9982
#2	.18821	.18537	.19500	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2859.8**	**2335.6**	**22495.**	**3398.1**
Stddev	2.0	.9	65.	22.2
%RSD	.07120	.03894	.29015	.65280
#1	2861.2	2336.3	22542.	3382.4
#2	2858.4	2335.0	22449.	3413.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.686%	96.836%	95.565%	98.288%
Range				

Sample Name: 480-198813-D-3-C MSD Acquired: 6/13/2022 20:01:29 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04719**	**10.053**	**.19965**	**.37363**	**1.2591**
Stddev	.00004	.080	.00097	.00136	.0094
%RSD	.07890	.79239	.48769	.36363	.74875
#1	.04721	10.109	.19896	.37459	1.2658
#2	.04716	9.9963	.20034	.37267	1.2524
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19896**	**176.51**	**.19176**	**-.0414**	**.19461**
Stddev	.00123	2.65	.00051	.0099	.00095
%RSD	.61750	1.5019	.26568	23.81	.48682
#1	.19983	178.39	.19212	-.0484	.19528
#2	.19809	174.64	.19140	-.0344	.19394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19375**	**.19577**	**9.9085**	**11.658**	**.20783**
Stddev	.00006	.00038	.0635	.072	.00144
%RSD	.03289	.19241	.64073	.61399	.69063
#1	.19379	.19550	9.9534	11.708	.20884
#2	.19370	.19603	9.8636	11.607	.20681
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-3-C MSD Acquired: 6/13/2022 20:01:29 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.300**	**4.9789**	**.19908**	**47.936**	**.19236**
Stddev	.099	.0239	.00108	.320	.00002
%RSD	.21027	.47944	.54387	.66735	.01214
#1	47.371	4.9620	.19985	48.162	.19238
#2	47.230	4.9957	.19831	47.710	.19234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.76**	**.19413**	**11.157**	**.19896**	**.19585**
Stddev	.00	.00036	.053	.00061	.00418
%RSD	.0034	.18389	.47069	.30683	2.1325
#1	24.76	.19439	11.195	.19940	.19880
#2	24.76	.19388	11.120	.19853	.19289
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.363**	**.23330**	**.55198**	**.9980**	**.19855**
Stddev	.151	.00056	.00445	.0051	.00038
%RSD	.92335	.24152	.80618	.5121	.19024
#1	16.470	.23370	.55513	.9944	.19829
#2	16.256	.23290	.54884	1.002	.19882
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-3-C MSD Acquired: 6/13/2022 20:01:29 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19464**	**.18910**	**.19794**	**.9990**
Stddev	.00030	.00142	.00145	.0000
%RSD	.15498	.75283	.73029	.0003
#1	.19442	.19011	.19897	.9990
#2	.19485	.18809	.19692	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2917.8**	**2390.4**	**23020.**	**3548.3**
Stddev	10.7	7.2	226.	33.1
%RSD	.36715	.30003	.98075	.93340
#1	2925.4	2395.4	22861.	3524.9
#2	2910.2	2385.3	23180.	3571.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.464%	99.105%	97.795%	102.63%
Range				

Sample Name: 480-198813-D-4-A Acquired: 6/13/2022 20:05:29 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.38337**	**.00313**	**.01829**	**.37314**
Stddev	.00071	.00857	.00093	.00027	.00044
%RSD	160.72	2.2342	29.804	1.4589	.11674
#1	-.00095	.37731	.00247	.01810	.37283
#2	.00006	.38943	.00379	.01848	.37345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**48.021**	**.00015**	**-.0394**	**.00051**
Stddev	.00005	.167	.00022	.0218	.00002
%RSD	46.142	.34814	139.70	55.25	4.8469
#1	.00014	48.139	.00031	-.0548	.00050
#2	.00007	47.903	.00000	-.0240	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00084**	**.00570**	**.38908**	**1.2596**	**.00897**
Stddev	.00009	.00018	.00365	.0016	.00006
%RSD	10.409	3.1682	.93781	.12410	.64127
#1	.00078	.00583	.39166	1.2607	.00893
#2	.00090	.00557	.38650	1.2585	.00901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-4-A Acquired: 6/13/2022 20:05:29 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.023**	**.31141**	**.00045**	**5.6351**	**.00235**
Stddev	.019	.00059	.00019	.0066	.00025
%RSD	.18992	.18815	41.841	.11799	10.812
#1	10.010	.31100	.00032	5.6398	.00217
#2	10.037	.31183	.00058	5.6304	.00253
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00083**	**3.1978**	**-.00018**	**.00203**
Stddev	.00	.00011	.0093	.00107	.00009
%RSD	.0009	13.333	.29051	603.99	4.6708
#1	25.02	.00091	3.2044	.00058	.00196
#2	25.02	.00075	3.1913	-.00093	.00209
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.0427**	**.00023**	**.11961**	**.9959**	**.00343**
Stddev	.0163	.00053	.00057	.0029	.00032
%RSD	.32334	227.91	.47552	.2875	9.2355
#1	5.0543	-.00014	.12001	.9939	.00320
#2	5.0312	.00060	.11921	.9979	.00365
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-4-A Acquired: 6/13/2022 20:05:29 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00048**	**.00093**	**.00465**	**.9991**
Stddev	.00007	.00006	.00007	.0004
%RSD	14.771	6.5451	1.4469	.0429
#1	.00043	.00097	.00470	.9988
#2	.00053	.00088	.00461	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3238.2**	**2489.5**	**24387.**	**3641.5**
Stddev	21.8	14.5	32.	2.4
%RSD	.67177	.58375	.13205	.06663
#1	3253.6	2499.8	24410.	3639.8
#2	3222.8	2479.3	24365.	3643.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.289%	103.22%	103.60%	105.33%
Range				

Sample Name: 480-198813-D-5-A Acquired: 6/13/2022 20:09:21 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.04808**	**-.00186**	**.02959**	**.18587**
Stddev	.00003	.00187	.00138	.00016	.00037
%RSD	53.608	3.8844	74.160	.54402	.19690
#1	.00004	.04676	-.00088	.02947	.18613
#2	.00009	.04940	-.00283	.02970	.18561
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**43.374**	**.00022**	**-.0091**	**.00006**
Stddev	.00001	.077	.00012	.0021	.00015
%RSD	50.249	.17685	57.103	23.07	240.70
#1	.00003	43.428	.00013	-.0106	-.00004
#2	.00002	43.320	.00030	-.0076	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00330**	**.06514**	**.96382**	**.01112**
Stddev	.00032	.00039	.00296	.02103	.00078
%RSD	263.41	11.717	4.5438	2.1817	7.0126
#1	-.00010	.00357	.06723	.94895	.01168
#2	.00034	.00302	.06305	.97869	.01057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-5-A Acquired: 6/13/2022 20:09:21 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.022**	**.02846**	**.00064**	**7.0888**	**.00023**
Stddev	.028	.00004	.00021	.0336	.00002
%RSD	.21746	.15142	32.265	.47423	10.629
#1	13.042	.02849	.00049	7.1126	.00024
#2	13.002	.02843	.00079	7.0650	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00138**	**3.1165**	**-.00087**	**.00298**
Stddev	.00	.00173	.0087	.00067	.00187
%RSD	.0061	125.13	.27905	77.411	62.867
#1	25.02	.00016	3.1226	-.00134	.00430
#2	25.02	.00260	3.1103	-.00039	.00165
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2496**	**-.00026**	**.12468**	**1.000**	**.00247**
Stddev	.0024	.00002	.00041	.007	.00148
%RSD	.04505	6.4228	.33066	.6737	60.071
#1	5.2513	-.00025	.12497	.9954	.00351
#2	5.2479	-.00027	.12439	1.005	.00142
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-5-A Acquired: 6/13/2022 20:09:21 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00060**	**-.00044**	**.00258**	**.9992**
Stddev	.00076	.00015	.00024	.0009
%RSD	126.54	34.770	9.4881	.0867
#1	-.00006	-.00055	.00241	.9998
#2	-.00113	-.00033	.00275	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3196.3**	**2459.9**	**23911.**	**3552.8**
Stddev	5.6	3.1	54.	12.9
%RSD	.17394	.12773	.22650	.36383
#1	3200.2	2462.2	23873.	3543.7
#2	3192.4	2457.7	23949.	3562.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.004%	101.99%	101.58%	102.76%
Range				

Sample Name: 480-198813-D-6-A Acquired: 6/13/2022 20:13:13 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.12811**	**-.00150**	**.05401**	**.87835**
Stddev	.00027	.04842	.00082	.00007	.00478
%RSD	356.91	37.793	54.923	.13303	.54424
#1	-.00027	.16234	-.00092	.05396	.88173
#2	.00012	.09387	-.00208	.05406	.87497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**105.50**	**.00024**	**-.0627**	**.00020**
Stddev	.00009	.63	.00002	.0197	.00025
%RSD	2310.6	.60003	8.4847	31.35	128.38
#1	-.00006	105.95	.00025	-.0766	.00002
#2	.00007	105.06	.00022	-.0488	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00255**	**.07227**	**1.1517**	**.01635**
Stddev	.00010	.00025	.00148	.0230	.00058
%RSD	235.40	9.6587	2.0487	2.0003	3.5281
#1	.00003	.00273	.07122	1.1679	.01676
#2	-.00011	.00238	.07332	1.1354	.01594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-6-A Acquired: 6/13/2022 20:13:13 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.287**	**.47578**	**-.00012**	**13.045**	**.00103**
Stddev	.065	.00035	.00007	.048	.00051
%RSD	.27836	.07297	57.998	.36718	49.579
#1	23.333	.47602	-.00007	13.079	.00067
#2	23.242	.47553	-.00016	13.011	.00139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00156**	**2.5793**	**-.00135**	**-.00028**
Stddev	.00	.00021	.0028	.00110	.00082
%RSD	.0057	13.473	.10702	81.677	294.81
#1	25.02	.00171	2.5813	-.00212	.00030
#2	25.02	.00141	2.5774	-.00057	-.00086
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.7401**	**-.00041**	**.23786**	**.9957**	**.00331**
Stddev	.0101	.00043	.00106	.0042	.00039
%RSD	.14939	105.97	.44764	.4186	11.679
#1	6.7472	-.00010	.23861	.9987	.00303
#2	6.7330	-.00071	.23711	.9928	.00358
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-6-A Acquired: 6/13/2022 20:13:13 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.00023**	**.00215**	**.9990**
Stddev	.00116	.00010	.00044	.0013
%RSD	1210.9	44.932	20.368	.1289
#1	-.00092	-.00030	.00245	.9999
#2	.00073	-.00016	.00184	.9981
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3055.2**	**2398.6**	**23053.**	**3431.2**
Stddev	6.7	3.7	31.	21.2
%RSD	.22016	.15252	.13540	.61861
#1	3060.0	2401.2	23031.	3416.2
#2	3050.5	2396.0	23075.	3446.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.679%	99.448%	97.933%	99.244%
Range				

Sample Name: 480-198813-D-7-A Acquired: 6/13/2022 20:17:11 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.41357**	**-.00092**	**.01556**	**.54613**
Stddev	.00018	.04256	.00014	.00008	.00066
%RSD	37.053	10.291	14.721	.53725	.12020
#1	-.00035	.38348	-.00102	.01550	.54567
#2	-.00060	.44367	-.00082	.01562	.54660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**37.593**	**.00018**	**-.0461**	**.00023**
Stddev	.00006	.015	.00015	.0023	.00013
%RSD	40.739	.04019	83.106	4.954	54.476
#1	.00011	37.604	.00028	-.0445	.00032
#2	.00020	37.582	.00007	-.0477	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00070**	**.00590**	**.26759**	**.86544**	**.00834**
Stddev	.00021	.00024	.00155	.01257	.00081
%RSD	29.347	4.1487	.58036	1.4528	9.6949
#1	.00055	.00573	.26649	.85655	.00891
#2	.00084	.00608	.26868	.87433	.00777
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-7-A Acquired: 6/13/2022 20:17:11 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.778**	**.08335**	**.00014**	**8.1282**	**.00080**
Stddev	.084	.00085	.00026	.0242	.00017
%RSD	.77964	1.0251	184.12	.29717	21.158
#1	10.718	.08275	.00032	8.1453	.00068
#2	10.837	.08396	-.00004	8.1111	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00163**	**3.8647**	**-.00103**	**-.00013**
Stddev	.00	.00043	.0073	.00298	.00329
%RSD	.0052	26.585	.18827	290.81	2523.9
#1	25.02	.00132	3.8596	.00108	.00219
#2	25.02	.00193	3.8698	-.00314	-.00245
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.4682**	**-.00012**	**.17952**	**.9961**	**.00502**
Stddev	.0357	.00057	.00011	.0039	.00009
%RSD	.47772	489.56	.06373	.3919	1.8364
#1	7.4935	.00029	.17944	.9989	.00508
#2	7.4430	-.00052	.17960	.9933	.00495
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-7-A Acquired: 6/13/2022 20:17:11 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.00032**	**.00218**	**.9991**
Stddev	.00004	.00032	.00032	.0006
%RSD	11.528	97.714	14.691	.0601
#1	-.00041	.00010	.00195	.9995
#2	-.00035	.00055	.00240	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3215.8**	**2469.8**	**23870.**	**3532.7**
Stddev	4.2	4.1	212.	5.0
%RSD	.13030	.16472	.88907	.14110
#1	3212.9	2466.9	24020.	3536.2
#2	3218.8	2472.7	23720.	3529.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.604%	102.40%	101.40%	102.18%
Range				

Sample Name: 480-198813-D-8-A Acquired: 6/13/2022 20:21:10 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00118**	**45.348**	**.06237**	**.03227**	**1.3190**
Stddev	.00056	.375	.00111	.00061	.0081
%RSD	47.684	.82717	1.7797	1.8804	.61111
#1	.00158	45.613	.06159	.03270	1.3247
#2	.00078	45.083	.06316	.03185	1.3133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00232**	**72.125**	**.00106**	**.1196**	**.07363**
Stddev	.00005	.461	.00003	.0092	.00006
%RSD	2.0333	.63893	2.7650	7.700	.08250
#1	.00236	72.451	.00108	.1261	.07368
#2	.00229	71.799	.00104	.1131	.07359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06768**	**.08162**	**80.347**	**9.3967**	**.09084**
Stddev	.00018	.00010	.698	.1054	.00060
%RSD	.26669	.12719	.86828	1.1217	.66225
#1	.06755	.08154	80.840	9.4712	.09126
#2	.06780	.08169	79.854	9.3221	.09041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-8-A Acquired: 6/13/2022 20:21:10 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.406**	**6.9353**	**.00014**	**28.717**	**.09211**
Stddev	.031	.0346	.00013	.163	.00019
%RSD	.13673	.49866	95.827	.56830	.20867
#1	22.384	6.9108	.00024	28.832	.09198
#2	22.428	6.9597	.00005	28.601	.09225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.67**	**.02954**	**2.8610**	**.01043**	**.00735**
Stddev	.00	.00030	.0040	.00080	.00123
%RSD	.0099	1.0110	.13946	7.6856	16.774
#1	25.67	.02933	2.8582	.01099	.00648
#2	25.67	.02975	2.8638	.00986	.00823
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**43.003**	**.00250**	**.17709**	**1.032**	**.16386**
Stddev	.305	.00044	.00144	.005	.00362
%RSD	.70858	17.450	.81346	.5298	2.2097
#1	43.219	.00219	.17811	1.028	.16642
#2	42.788	.00280	.17607	1.036	.16130
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-8-A Acquired: 6/13/2022 20:21:10 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00262**	**.06007**	**.14937**	**1.005**
Stddev	.00011	.00013	.00087	.000
%RSD	4.0206	.21150	.58137	.0036
#1	-.00254	.06016	.14998	1.005
#2	-.00269	.05998	.14875	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3005.1**	**2546.7**	**24465.**	**3705.0**
Stddev	7.4	4.1	51.	32.5
%RSD	.24673	.15974	.20916	.87742
#1	2999.8	2543.9	24501.	3682.0
#2	3010.3	2549.6	24429.	3728.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.140%	105.59%	103.93%	107.16%
Range				

Sample Name: CCV-7018483 Acquired: 6/13/2022 20:25:11 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95900**	**47.338**	**.97044**	**.98507**	**.95860**
Stddev	.00354	.181	.00628	.00054	.00210
%RSD	.36911	.38317	.64721	.05444	.21922
#1	.96151	47.209	.97488	.98544	.95712
#2	.95650	47.466	.96600	.98469	.96009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96049**	**47.409**	**.96485**	**.9717**	**.95909**
Stddev	.00170	.138	.00071	.0110	.00209
%RSD	.17741	.29075	.07317	1.129	.21803
#1	.95929	47.311	.96435	.9794	.95761
#2	.96170	47.506	.96535	.9639	.96057
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0048**	**.95378**	**48.035**	**46.922**	**.93264**
Stddev	.0017	.00627	.055	.250	.00556
%RSD	.16527	.65766	.11525	.53269	.59588
#1	1.0059	.95821	47.996	46.746	.92871
#2	1.0036	.94934	48.074	47.099	.93657
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/13/2022 20:25:11 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.802**	**.98174**	**.98345**	**47.159**	**.97139**
Stddev	.123	.00206	.00127	.082	.00096
%RSD	.24708	.21029	.12950	.17300	.09890
#1	49.889	.98320	.98435	47.102	.97071
#2	49.715	.98028	.98255	47.217	.97207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.17**	**.96435**	**23.983**	**.95806**	**.97458**
Stddev	.00	.00198	.011	.00110	.00181
%RSD	.0080	.20541	.04412	.11511	.18556
#1	37.16	.96575	23.990	.95884	.97330
#2	37.17	.96295	23.976	.95728	.97585
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3722**	**.96196**	**.93285**	**1.481**	**.96539**
Stddev	.0325	.00154	.00368	.002	.00254
%RSD	.34696	.16025	.39472	.1589	.26303
#1	9.3492	.96087	.93024	1.479	.96718
#2	9.3951	.96305	.93545	1.482	.96359
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/13/2022 20:25:11 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.98569**	**.96859**	**1.0104**	**1.485**
Stddev	.00180	.00368	.0026	.000
%RSD	.18255	.37954	.25194	.0254
#1	.98441	.97119	1.0122	1.485
#2	.98696	.96599	1.0086	1.485
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2925.8**	**2408.1**	**22529.**	**3410.0**
Stddev	14.3	10.0	14.	29.9
%RSD	.48991	.41700	.06309	.87797
#1	2935.9	2415.2	22539.	3431.1
#2	2915.7	2401.0	22519.	3388.8

Sample Name: CCB-7026764 Acquired: 6/13/2022 20:28:52 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**-.01486**	**-.00057**	**.00027**	**.00002**
Stddev	.00020	.00313	.00163	.00043	.00002
%RSD	36.817	21.076	284.80	157.39	86.195
#1	-.00069	-.01708	-.00172	.00058	.00001
#2	-.00040	-.01265	.00058	-.00003	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**-.00281**	**.00010**	**-.0326**	**.00017**
Stddev	.00010	.00016	.00004	.0021	.00023
%RSD	114.59	5.5568	38.513	6.290	133.45
#1	.00015	-.00270	.00013	-.0312	.00001
#2	.00002	-.00292	.00007	-.0341	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00223**	**-.01436**	**.01909**	**.00037**
Stddev	.00002	.00028	.00147	.01690	.00028
%RSD	6.5138	12.420	10.245	88.492	75.961
#1	-.00030	.00243	-.01332	.00715	.00017
#2	-.00028	.00204	-.01540	.03104	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/13/2022 20:28:52 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**-.00006**	**.00013**	**.00683**	**.00019**
Stddev	.00355	.00002	.00022	.00629	.00020
%RSD	351360.	34.708	167.94	92.188	106.06
#1	-.00251	-.00004	-.00002	.00238	.00005
#2	.00251	-.00007	.00029	.01128	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00016**	**-.02216**	**-.00131**	**.00248**
Stddev	.00	.00047	.00164	.00079	.00063
%RSD	.0046	287.18	7.4093	60.575	25.310
#1	25.02	.00017	-.02100	-.00075	.00204
#2	25.01	-.00050	-.02332	-.00187	.00292
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.06997**	**-.00026**	**.00004**	**1.000**	**.00041**
Stddev	.01814	.00002	.00001	.001	.00012
%RSD	25.927	8.7262	37.882	.0836	29.361
#1	-.05714	-.00025	.00005	1.001	.00049
#2	-.08279	-.00028	.00003	.9999	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/13/2022 20:28:52 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00023**	**-.00040**	**-.00247**	**.9991**
Stddev	.00134	.00041	.00023	.0014
%RSD	593.20	102.77	9.3149	.1392
#1	-.00072	-.00011	-.00230	1.000
#2	.00117	-.00069	-.00263	.9982
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3433.6**	**2535.1**	**24714.**	**3619.9**
Stddev	29.4	21.4	27.	14.6
%RSD	.85618	.84264	.10969	.40316
#1	3454.4	2550.2	24733.	3630.2
#2	3412.8	2520.0	24695.	3609.6

Sample Name: CCVL-7028546 Acquired: 6/13/2022 20:32:51 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00551**	**.17945**	**.01346**	**.01899**	**.00220**
Stddev	.00049	.02227	.00240	.00048	.00002
%RSD	8.9745	12.413	17.814	2.5366	1.1199
#1	.00516	.16370	.01177	.01933	.00222
#2	.00586	.19520	.01516	.01865	.00218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**.49208**	**.00211**	**-.0095**	**.00375**
Stddev	.00002	.00019	.00003	.0008	.00012
%RSD	1.0724	.03888	1.6409	8.555	3.2058
#1	.00211	.49194	.00214	-.0090	.00367
#2	.00208	.49221	.00209	-.0101	.00384
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00390**	**.01279**	**.03811**	**.41666**	**.02722**
Stddev	.00015	.00020	.00229	.00062	.00207
%RSD	3.9678	1.5935	6.0195	.14765	7.6105
#1	.00379	.01265	.03974	.41623	.02575
#2	.00401	.01294	.03649	.41710	.02868
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/13/2022 20:32:51 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20333**	**.00331**	**.01029**	**.91354**	**.00961**
Stddev	.00222	.00007	.00001	.00317	.00025
%RSD	1.0902	2.0191	.07346	.34664	2.6283
#1	.20490	.00335	.01029	.91578	.00943
#2	.20176	.00326	.01030	.91130	.00979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00905**	**.17008**	**.01714**	**.02538**
Stddev	.00	.00058	.00079	.00010	.00018
%RSD	.0013	6.4060	.46211	.61215	.72086
#1	25.00	.00946	.16952	.01707	.02525
#2	25.00	.00864	.17064	.01722	.02551
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.39898**	**.00866**	**.00500**	F **1.001**	**.00450**
Stddev	.00684	.00002	.00007	.004	.00050
%RSD	1.7146	.23732	1.4487	.4534	11.047
#1	.39415	.00868	.00505	1.004	.00415
#2	.40382	.00865	.00495	.9977	.00485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/13/2022 20:32:51 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	.02064	.00466	.00835	F .9996
Stddev	.00182	.00010	.00013	.0009
%RSD	8.8026	2.2430	1.5574	.0851
#1	.01935	.00459	.00844	1.000
#2	.02192	.00474	.00825	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3392.3	2507.6	24608.	3514.8
Stddev	6.2	5.5	5.	10.3
%RSD	.18271	.22048	.01899	.29368
#1	3396.7	2511.5	24612.	3507.5
#2	3387.9	2503.7	24605.	3522.1

Sample Name: 480-198813-D-9-A Acquired: 6/13/2022 20:36:46 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.26562**	**-.00021**	**.01565**	**.30489**
Stddev	.00054	.00199	.00272	.00003	.00006
%RSD	529.48	.74742	1309.1	.16605	.01884
#1	-.00049	.26422	-.00213	.01564	.30485
#2	.00028	.26703	.00171	.01567	.30493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**49.542**	**.00047**	**-.0121**	**.00006**
Stddev	.00002	.393	.00006	.0003	.00003
%RSD	453.25	.79396	12.668	2.437	47.896
#1	.00002	49.820	.00051	-.0119	.00004
#2	-.00001	49.264	.00043	-.0123	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.00310**	**.21620**	**1.0388**	**.01136**
Stddev	.00003	.00064	.00099	.0310	.00097
%RSD	4.9884	20.758	.45939	2.9860	8.5184
#1	.00059	.00356	.21690	1.0607	.01205
#2	.00055	.00265	.21550	1.0169	.01068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-9-A Acquired: 6/13/2022 20:36:46 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.453**	**.03470**	**-.00007**	**35.480**	**.00044**
Stddev	.011	.00003	.00002	.363	.00023
%RSD	.09740	.07426	23.485	1.0232	52.828
#1	11.461	.03469	-.00008	35.736	.00027
#2	11.445	.03472	-.00006	35.223	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00141**	**3.7119**	**-.00031**	**-.00007**
Stddev	.00	.00148	.0078	.00108	.00006
%RSD	.0020	105.13	.21035	344.89	81.923
#1	25.02	.00036	3.7064	-.00108	-.00011
#2	25.02	.00245	3.7174	.00045	-.00003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.8659**	**.00193**	**.17400**	**1.001**	**.00293**
Stddev	.0364	.00041	.00139	.004	.00131
%RSD	.94219	21.299	.80124	.4155	44.529
#1	3.8916	.00164	.17498	1.004	.00386
#2	3.8401	.00222	.17301	.9977	.00201
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-9-A Acquired: 6/13/2022 20:36:46 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00085**	**-.00023**	**.01169**	**.9994**
Stddev	.00037	.00009	.00000	.0003
%RSD	43.690	39.954	.00772	.0272
#1	.00111	-.00030	.01169	.9992
#2	.00059	-.00017	.01169	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3168.7**	**2466.2**	**23146.**	**3375.0**
Stddev	6.3	3.8	89.	8.8
%RSD	.19801	.15588	.38541	.26153
#1	3164.2	2463.5	23083.	3368.7
#2	3173.1	2468.9	23209.	3381.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.157%	102.25%	98.330%	97.619%
Range				

Sample Name: 480-198813-R-10-A Acquired: 6/13/2022 20:40:38 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**3.8938**	**.00146**	**.15887**	**.24166**
Stddev	.00071	.0152	.00038	.00087	.00040
%RSD	234.79	.39111	25.871	.54958	.16426
#1	-.00081	3.9046	.00119	.15949	.24138
#2	.00020	3.8830	.00173	.15825	.24194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**92.510**	**.00032**	**-.0443**	**.00252**
Stddev	.00003	.013	.00007	.0193	.00008
%RSD	14.695	.01431	22.113	43.50	3.0775
#1	.00016	92.501	.00037	-.0307	.00257
#2	.00020	92.520	.00027	-.0579	.00246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00467**	**.00582**	**4.6401**	**2.7928**	**.00706**
Stddev	.00013	.00032	.0044	.0705	.00003
%RSD	2.7562	5.4396	.09465	2.5233	.47569
#1	.00458	.00604	4.6370	2.8426	.00708
#2	.00476	.00559	4.6432	2.7430	.00703
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-R-10-A Acquired: 6/13/2022 20:40:38 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.841**	**4.6891**	**-.00023**	**29.474**	**.00892**
Stddev	.044	.0243	.00030	.007	.00001
%RSD	.23153	.51721	128.83	.02362	.14038
#1	18.811	4.7063	-.00002	29.469	.00892
#2	18.872	4.6720	-.00044	29.479	.00891
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00499**	**2.2810**	**.00012**	**-.00392**
Stddev	.00	.00051	.0004	.00025	.00024
%RSD	.0051	10.268	.01711	213.35	6.1027
#1	25.04	.00463	2.2813	-.00006	-.00375
#2	25.04	.00535	2.2807	.00029	-.00409
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9788**	**.00181**	**.23419**	**.9982**	**.08244**
Stddev	.0138	.00086	.00022	.0023	.00051
%RSD	.13871	47.700	.09328	.2350	.61481
#1	9.9690	.00242	.23404	.9999	.08280
#2	9.9886	.00120	.23435	.9966	.08209
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-R-10-A Acquired: 6/13/2022 20:40:38 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.00548**	**.01830**	**.9998**
Stddev	.00065	.00010	.00002	.0003
%RSD	184.05	1.8378	.11184	.0336
#1	.00011	.00541	.01831	.9996
#2	-.00081	.00555	.01828	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3035.6**	**2411.2**	**23191.**	**3466.2**
Stddev	.2	2.8	13.	.6
%RSD	.00572	.11464	.05696	.01601
#1	3035.7	2409.2	23182.	3466.6
#2	3035.4	2413.1	23200.	3465.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.076%	99.967%	98.519%	100.26%
Range				

Sample Name: 480-198815-D-1-A Acquired: 6/13/2022 20:44:33 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.30575**	**.00192**	**.01534**	**.24281**
Stddev	.00033	.01491	.00059	.00058	.00046
%RSD	82.145	4.8780	30.570	3.7851	.18892
#1	-.00017	.29520	.00151	.01493	.24248
#2	-.00063	.31629	.00234	.01575	.24313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**85.249**	**.00034**	**-.0680**	**.00019**
Stddev	.00010	.008	.00006	.0399	.00005
%RSD	902.68	.00936	17.683	58.59	28.261
#1	-.00008	85.243	.00030	-.0398	.00023
#2	.00006	85.255	.00038	-.0962	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.00366**	**.29969**	**1.1324**	**.01343**
Stddev	.00042	.00003	.00370	.0498	.00049
%RSD	75.678	.95224	1.2343	4.3998	3.6354
#1	.00085	.00364	.29707	1.1676	.01309
#2	.00026	.00369	.30230	1.0972	.01378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198815-D-1-A Acquired: 6/13/2022 20:44:33 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.628**	**.45435**	**.00022**	**10.001**	**.00084**
Stddev	.007	.00131	.00008	.034	.00014
%RSD	.04432	.28921	36.633	.33988	16.346
#1	16.633	.45342	.00027	10.025	.00074
#2	16.623	.45528	.00016	9.9774	.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00143**	**4.0382**	**-.00081**	**-.00196**
Stddev	.00	.00026	.0229	.00041	.00174
%RSD	.0003	18.500	.56752	50.639	88.748
#1	25.02	.00124	4.0220	-.00110	-.00073
#2	25.02	.00162	4.0544	-.00052	-.00319
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5764**	**.00163**	**.21911**	**.9979**	**.00393**
Stddev	.0191	.00038	.00136	.0063	.00169
%RSD	.41631	23.028	.62004	.6300	43.044
#1	4.5630	.00137	.22007	.9935	.00274
#2	4.5899	.00190	.21815	1.002	.00513
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198815-D-1-A Acquired: 6/13/2022 20:44:33 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00047**	**-.00007**	**.00756**	**.9987**
Stddev	.00053	.00009	.00019	.0003
%RSD	113.24	130.34	2.4919	.0305
#1	-.00085	-.00013	.00769	.9989
#2	-.00009	-.00001	.00743	.9985
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3150.5**	**2457.1**	**23596.**	**3570.8**
Stddev	18.6	11.3	33.	8.4
%RSD	.59039	.45918	.13776	.23633
#1	3137.4	2449.1	23619.	3576.8
#2	3163.7	2465.1	23573.	3564.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.601%	101.87%	100.24%	103.28%
Range				

Sample Name: 480-198815-D-2-A Acquired: 6/13/2022 20:48:24 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**3.2722**	**-.00031**	**.05419**	**.08784**
Stddev	.00017	.0306	.00182	.00030	.00032
%RSD	53.579	.93482	594.07	.56087	.36156
#1	-.00043	3.2938	.00098	.05441	.08806
#2	-.00019	3.2506	-.00159	.05398	.08762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**49.792**	**.00015**	**-.0132**	**.00133**
Stddev	.00011	.135	.00013	.0087	.00009
%RSD	81.361	.27038	87.725	66.13	6.7505
#1	.00006	49.887	.00024	-.0070	.00140
#2	.00021	49.697	.00006	-.0193	.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00449**	**.00560**	**3.5394**	**2.3016**	**.01069**
Stddev	.00051	.00080	.0024	.0232	.00073
%RSD	11.359	14.281	.06792	1.0068	6.8224
#1	.00413	.00616	3.5411	2.2853	.01018
#2	.00485	.00503	3.5377	2.3180	.01121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198815-D-2-A Acquired: 6/13/2022 20:48:24 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4229**	**.05339**	**.00176**	**42.029**	**.00355**
Stddev	.0240	.00039	.00008	.103	.00031
%RSD	.25514	.72486	4.7308	.24472	8.8596
#1	9.4399	.05366	.00170	42.102	.00333
#2	9.4059	.05312	.00181	41.956	.00377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00335**	**20.527**	**-.00104**	**.00009**
Stddev	.00	.00149	.072	.00176	.00085
%RSD	.0044	44.375	.34893	168.83	956.57
#1	25.04	.00440	20.578	-.00229	.00069
#2	25.04	.00230	20.476	.00020	-.00051
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.6986**	**.00161**	**.14860**	**1.002**	**.05830**
Stddev	.1005	.00025	.00030	.000	.00269
%RSD	1.3052	15.412	.20514	.0131	4.6223
#1	7.7696	.00143	.14882	1.002	.06021
#2	7.6275	.00178	.14839	1.002	.05640
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198815-D-2-A Acquired: 6/13/2022 20:48:24 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00541**	**.00936**	**1.001**
Stddev	.00117	.00043	.00014	.000
%RSD	507.88	7.9193	1.4940	.0260
#1	.00105	.00571	.00926	1.001
#2	-.00059	.00510	.00946	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3135.6**	**2460.6**	**23422.**	**3544.6**
Stddev	1.7	3.7	98.	14.1
%RSD	.05336	.14862	.41786	.39887
#1	3134.4	2458.0	23353.	3534.7
#2	3136.8	2463.2	23492.	3554.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.143%	102.02%	99.503%	102.53%
Range				

Sample Name: 480-198831-A-2-A Acquired: 6/13/2022 20:52:15 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.13632**	**-.00041**	**.18246**	**.34040**
Stddev	.00033	.03010	.00066	.00083	.00077
%RSD	60.824	22.077	163.46	.45719	.22671
#1	-.00031	.15760	-.00088	.18187	.34095
#2	-.00077	.11504	.00006	.18305	.33986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**328.02**	**-.00007**	**.0019**	**.00070**
Stddev	.00012	2.86	.00004	.0189	.00014
%RSD	181.46	.87303	52.465	1002.	20.313
#1	.00015	330.04	-.00005	.0153	.00060
#2	-.00002	325.99	-.00010	-.0115	.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00524**	**.00910**	**58.514**	**14.838**	**.03833**
Stddev	.00040	.00100	.020	.079	.00035
%RSD	7.5976	10.943	.03419	.53457	.90875
#1	.00552	.00980	58.528	14.894	.03857
#2	.00496	.00839	58.500	14.782	.03808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198831-A-2-A Acquired: 6/13/2022 20:52:15 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.722**	**2.5711**	**-.00090**	**340.64**	**.00617**
Stddev	.117	.0029	.00031	.90	.00034
%RSD	.33644	.11351	34.775	.26289	5.5743
#1	34.805	2.5732	-.00068	341.27	.00641
#2	34.639	2.5691	-.00112	340.00	.00593
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.62**	**.00496**	**2.8140**	**.00754**	**.00552**
Stddev	.00	.00013	.0066	.00012	.00044
%RSD	.0012	2.5781	.23530	1.6132	7.9417
#1	25.62	.00487	2.8187	.00746	.00521
#2	25.62	.00505	2.8093	.00763	.00583
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.174**	**.00178**	**5.0161**	**1.024**	**.00694**
Stddev	.028	.00001	.0833	.005	.00111
%RSD	.22636	.82545	1.6598	.4958	15.925
#1	12.155	.00179	5.0750	1.021	.00616
#2	12.194	.00177	4.9572	1.028	.00772
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198831-A-2-A Acquired: 6/13/2022 20:52:15 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00155**	**.00168**	**.00930**	**.9997**
Stddev	.00007	.00016	.00067	.0003
%RSD	4.7810	9.8090	7.2085	.0317
#1	-.00150	.00179	.00978	.9999
#2	-.00161	.00156	.00883	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2692.4**	**2286.0**	**21116.**	**3333.5**
Stddev	8.0	5.7	78.	2.9
%RSD	.29642	.25007	.36796	.08748
#1	2698.1	2290.1	21061.	3335.6
#2	2686.8	2282.0	21171.	3331.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.555%	94.780%	89.706%	96.421%
Range				

Sample Name: MB 480-629294/1-A Acquired: 6/13/2022 20:56:21 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**-.01920**	**-.00153**	**.00014**	**.00001**
Stddev	.00004	.00721	.00168	.00051	.00001
%RSD	4.5697	37.573	110.05	366.99	149.01
#1	-.00082	-.02430	-.00271	.00050	-.00000
#2	-.00077	-.01410	-.00034	-.00022	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.01450**	**.00005**	**-.0584**	**-.00010**
Stddev	.00011	.00016	.00013	.0201	.00001
%RSD	600.05	1.0774	268.16	34.48	12.946
#1	.00010	.01461	.00014	-.0726	-.00009
#2	-.00006	.01439	-.00004	-.0442	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.00304**	**-.00951**	**.02382**	**.00109**
Stddev	.00008	.00009	.00107	.01486	.00048
%RSD	28.324	3.1086	11.293	62.375	44.343
#1	-.00022	.00311	-.01027	.01331	.00075
#2	-.00033	.00298	-.00875	.03432	.00143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629294/1-A Acquired: 6/13/2022 20:56:21 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00074**	**-.00011**	**-.00028**	**.03050**	**.00020**
Stddev	.00559	.00003	.00002	.01096	.00029
%RSD	756.44	25.125	7.6756	35.948	143.14
#1	.00469	-.00009	-.00026	.03825	.00041
#2	-.00321	-.00013	-.00029	.02274	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00055**	**-.01883**	**-.00179**	**.00050**
Stddev	.00	.00092	.00009	.00149	.00261
%RSD	.0001	168.36	.49990	83.307	527.67
#1	25.02	-.00119	-.01876	-.00285	-.00135
#2	25.02	.00010	-.01889	-.00074	.00234
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.07836**	**-.00026**	**.00015**	**.9946**	**.00017**
Stddev	.00386	.00012	.00005	.0021	.00010
%RSD	4.9248	46.765	32.695	.2152	59.451
#1	-.07563	-.00017	.00011	.9961	.00010
#2	-.08109	-.00034	.00018	.9930	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629294/1-A Acquired: 6/13/2022 20:56:21 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00036**	**-.00007**	**-.00175**	**.9981**
Stddev	.00043	.00008	.00002	.0009
%RSD	119.95	106.31	1.1840	.0915
#1	.00067	-.00002	-.00177	.9988
#2	.00005	-.00013	-.00174	.9975
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3424.3**	**2515.6**	**24547.**	**3500.6**
Stddev	1.6	3.5	95.	7.7
%RSD	.04598	.13766	.38877	.21967
#1	3423.2	2518.0	24479.	3506.1
#2	3425.4	2513.1	24614.	3495.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	105.00%	104.30%	104.28%	101.25%
Range				

Sample Name: LCS 480-629294/2-A Acquired: 6/13/2022 21:00:15 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04656**	**9.7371**	**.19322**	**.19422**	**.20400**
Stddev	.00082	.0112	.00032	.00062	.00016
%RSD	1.7643	.11539	.16596	.31860	.07620
#1	.04714	9.7451	.19299	.19378	.20411
#2	.04598	9.7292	.19344	.19465	.20389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20265**	**9.6135**	**.19164**	**-.0650**	**.19089**
Stddev	.00054	.0280	.00037	.0651	.00000
%RSD	.26436	.29162	.19514	100.2	.00171
#1	.20303	9.6333	.19137	-.0190	.19089
#2	.20227	9.5937	.19190	-.1111	.19090
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20172**	**.19749**	**9.7367**	**9.2727**	**.18510**
Stddev	.00014	.00012	.0327	.0020	.00043
%RSD	.06931	.05932	.33602	.02138	.23131
#1	.20162	.19740	9.7598	9.2741	.18479
#2	.20182	.19757	9.7135	9.2713	.18540
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629294/2-A Acquired: 6/13/2022 21:00:15 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.152**	**.19985**	**.20356**	**9.2224**	**.18813**
Stddev	.011	.00030	.00075	.0139	.00024
%RSD	.10626	.15108	.36987	.15036	.12824
#1	10.144	.20006	.20302	9.2322	.18795
#2	10.160	.19964	.20409	9.2126	.18830
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.74**	**.19145**	**9.2368**	**.19708**	**.19473**
Stddev	.00	.00147	.0193	.00364	.00062
%RSD	.0045	.76816	.20943	1.8461	.32056
#1	24.74	.19041	9.2231	.19965	.19429
#2	24.73	.19249	9.2505	.19450	.19517
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.8615**	**.22842**	**.19548**	**1.003**	**.19559**
Stddev	.0359	.00059	.00066	.006	.00017
%RSD	.40504	.25816	.33932	.5582	.08509
#1	8.8868	.22801	.19595	.9987	.19571
#2	8.8361	.22884	.19501	1.007	.19547
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629294/2-A Acquired: 6/13/2022 21:00:15 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19882**	**.19122**	**.19550**	**.9994**
Stddev	.00036	.00030	.00023	.0006
%RSD	.18229	.15865	.11701	.0638
#1	.19857	.19101	.19534	.9990
#2	.19908	.19144	.19566	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3200.5**	**2459.8**	**23650.**	**3416.0**
Stddev	1.7	1.1	3.	20.6
%RSD	.05227	.04278	.01419	.60360
#1	3201.7	2460.5	23652.	3401.4
#2	3199.3	2459.0	23648.	3430.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.132%	101.98%	100.47%	98.806%
Range				

Sample Name: 480-198724-A-12-A Acquired: 6/13/2022 21:03:58 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.01719**	**.00019**	**.37540**	**.01207**
Stddev	.00032	.00470	.00141	.00301	.00004
%RSD	2941.3	27.337	730.08	.80094	.35821
#1	-.00021	.02051	-.00081	.37327	.01210
#2	.00023	.01387	.00119	.37752	.01204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**127.25**	**.00083**	**-.0974**	**.00002**
Stddev	.00006	.52	.00015	.0085	.00008
%RSD	181.64	.41148	17.644	8.744	461.42
#1	.00001	127.62	.00093	-.0914	.00007
#2	-.00008	126.88	.00072	-.1035	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.00821**	**-.00831**	**2.6509**	**.06109**
Stddev	.00002	.00113	.00097	.0311	.00097
%RSD	4.1870	13.767	11.726	1.1712	1.5866
#1	.00061	.00901	-.00900	2.6729	.06040
#2	.00057	.00741	-.00762	2.6290	.06177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-12-A Acquired: 6/13/2022 21:03:58 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**105.95**	**.00063**	**.01649**	**77.489**	**.00090**
Stddev	.06	.00004	.00017	.617	.00006
%RSD	.05362	7.0993	1.0563	.79588	6.4925
#1	106.00	.00066	.01662	77.925	.00094
#2	105.91	.00060	.01637	77.053	.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00019**	F **181.12**	**-.00275**	**-.00241**
Stddev	.00	.00004	1.92	.00132	.00038
%RSD	.0061	19.946	1.0601	48.074	15.835
#1	25.02	.00022	179.76	-.00181	-.00268
#2	25.02	.00016	182.47	-.00368	-.00214
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.4581**	**-.00062**	**3.9276**	**.9927**	**.00087**
Stddev	.0361	.00042	.0159	.0094	.00026
%RSD	.55879	67.925	.40594	.9519	29.994
#1	6.4836	-.00032	3.9389	.9994	.00069
#2	6.4326	-.00091	3.9164	.9860	.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-12-A Acquired: 6/13/2022 21:03:58 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00080**	**-.00133**	**.00215**	**.9993**
Stddev	.00076	.00002	.00075	.0002
%RSD	94.959	1.3211	34.893	.0225
#1	-.00026	-.00132	.00162	.9991
#2	-.00134	-.00134	.00268	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2914.2**	**2337.8**	**21930.**	**3271.7**
Stddev	59.9	44.9	52.	20.2
%RSD	2.0558	1.9219	.23550	.61612
#1	2871.9	2306.1	21967.	3257.5
#2	2956.6	2369.6	21894.	3286.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.356%	96.927%	93.165%	94.633%
Range				

Sample Name: 198724-A-12-Asd@5 Acquired: 6/13/2022 21:07:49 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**-.01253**	**.00058**	**.07294**	**.00252**
Stddev	.00063	.02118	.00066	.00074	.00003
%RSD	601.61	169.06	114.71	1.0180	1.2262
#1	-.00034	.00245	.00105	.07347	.00254
#2	.00055	-.02750	.00011	.07242	.00250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**24.961**	**.00039**	**-.0382**	**-.00005**
Stddev	.00000	.217	.00016	.0089	.00003
%RSD	2.8717	.87081	40.026	23.43	55.102
#1	.00005	25.115	.00050	-.0445	-.00003
#2	.00005	24.808	.00028	-.0319	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00347**	**-.01078**	**.51946**	**.01181**
Stddev	.00033	.00027	.00551	.06034	.00102
%RSD	102.55	7.8593	51.156	11.615	8.6122
#1	.00056	.00366	-.01467	.56213	.01109
#2	.00009	.00328	-.00688	.47680	.01253
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 198724-A-12-Asd@5 Acquired: 6/13/2022 21:07:49 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.954**	**-.00003**	**.00310**	**14.429**	**.00185**
Stddev	.000	.00000	.00007	.084	.00023
%RSD	.00049	2.8658	2.1310	.58290	12.669
#1	19.954	-.00003	.00315	14.489	.00168
#2	19.954	-.00003	.00306	14.370	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00053**	**34.470**	**-.00176**	**-.00176**
Stddev	.00	.00025	.031	.00113	.00118
%RSD	.0053	47.286	.09035	64.504	67.298
#1	25.02	-.00035	34.492	-.00095	-.00259
#2	25.01	-.00071	34.448	-.00256	-.00092
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1794**	**-.00045**	**.78170**	**1.001**	**.00064**
Stddev	.0002	.00007	.00473	.007	.00033
%RSD	.02016	16.169	.60508	.6945	52.582
#1	1.1796	-.00050	.78504	.9961	.00087
#2	1.1793	-.00040	.77835	1.006	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 198724-A-12-Asd@5 Acquired: 6/13/2022 21:07:49 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00014**	**-.00085**	**.01541**	**.9985**
Stddev	.00100	.00003	.00008	.0000
%RSD	707.21	3.3647	.54585	.0032
#1	.00085	-.00087	.01535	.9985
#2	-.00057	-.00083	.01547	.9985
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3244.5**	**2484.2**	**24169.**	**3549.2**
Stddev	1.8	2.5	25.	56.1
%RSD	.05540	.09966	.10409	1.5793
#1	3243.2	2482.5	24187.	3509.5
#2	3245.7	2486.0	24151.	3588.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.481%	103.00%	102.67%	102.66%
Range				

Sample Name: CCV-7018483 Acquired: 6/13/2022 21:11:46 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95893**	**47.480**	**.96802**	**.98296**	**.95931**
Stddev	.00014	.329	.00523	.00123	.00405
%RSD	.01440	.69303	.54047	.12501	.42186
#1	.95902	47.713	.96432	.98209	.96217
#2	.95883	47.248	.97172	.98383	.95645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96280**	**47.573**	**.96454**	**.9524**	**.95779**
Stddev	.00485	.258	.00139	.0302	.00033
%RSD	.50415	.54281	.14372	3.175	.03459
#1	.96623	47.755	.96356	.9310	.95802
#2	.95937	47.390	.96552	.9738	.95756
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0036**	**.95801**	**48.096**	**47.179**	**.93384**
Stddev	.0020	.00455	.148	.284	.00407
%RSD	.19673	.47516	.30732	.60159	.43577
#1	1.0022	.95479	48.200	47.380	.93672
#2	1.0050	.96123	47.991	46.979	.93096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/13/2022 21:11:46 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.797**	**.98271**	**.98317**	**47.295**	**.96790**
Stddev	.107	.00124	.00137	.200	.00073
%RSD	.21576	.12649	.13942	.42354	.07507
#1	49.721	.98183	.98220	47.437	.96739
#2	49.873	.98359	.98414	47.153	.96842
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.17**	**.96379**	**23.945**	**.95673**	**.97747**
Stddev	.00	.00033	.046	.00163	.00251
%RSD	.0058	.03395	.19134	.17076	.25697
#1	37.17	.96356	23.913	.95558	.97925
#2	37.16	.96402	23.977	.95789	.97569
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3407**	**.95958**	**.93949**	**1.481**	**.96750**
Stddev	.0625	.00078	.00514	.003	.00206
%RSD	.66931	.08086	.54712	.1949	.21319
#1	9.3849	.96013	.94312	1.483	.96604
#2	9.2965	.95903	.93585	1.479	.96896
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/13/2022 21:11:46 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.98709**	**.97125**	**1.0135**	**1.486**
Stddev	.00337	.00090	.0004	.002
%RSD	.34177	.09219	.03761	.1214
#1	.98947	.97062	1.0137	1.487
#2	.98470	.97188	1.0132	1.484
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2926.9**	**2405.3**	**22604.**	**3410.1**
Stddev	4.1	6.4	52.	12.9
%RSD	.14154	.26652	.22931	.37891
#1	2929.8	2409.8	22640.	3401.0
#2	2924.0	2400.8	22567.	3419.3

Sample Name: CCB-7026764 Acquired: 6/13/2022 21:15:26 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00118**	**-.01257**	**.00140**	**.00032**	**.00001**
Stddev	.00016	.04126	.00043	.00006	.00003
%RSD	13.313	328.19	31.013	19.661	574.90
#1	-.00129	-.04174	.00171	.00027	-.00002
#2	-.00107	.01660	.00109	.00036	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00349**	**.00019**	**-.0160**	**.00015**
Stddev	.00001	.00224	.00032	.0038	.00024
%RSD	38.480	64.095	167.62	23.77	167.11
#1	-.00004	-.00191	-.00003	-.0186	-.00003
#2	-.00002	-.00507	.00041	-.0133	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.00250**	**-.01496**	**.01833**	**.00083**
Stddev	.00005	.00016	.00290	.04986	.00166
%RSD	29.943	6.4639	19.407	272.02	199.66
#1	.00019	.00239	-.01701	.05359	-.00034
#2	.00013	.00262	-.01291	-.01693	.00200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/13/2022 21:15:26 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00215**	**-.00008**	**.00024**	**.00522**	**.00031**
Stddev	.00063	.00008	.00014	.00282	.00015
%RSD	29.126	103.98	56.853	53.961	46.190
#1	.00171	-.00014	.00015	.00323	.00042
#2	.00259	-.00002	.00034	.00721	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00028**	**-.01347**	**-.00115**	**.00364**
Stddev	.00	.00074	.01087	.00031	.00041
%RSD	.0093	265.98	80.691	27.152	11.146
#1	25.02	-.00024	-.02116	-.00093	.00335
#2	25.02	.00080	-.00578	-.00137	.00393
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.07945**	**.00013**	**.00021**	**.9904**	**-.00015**
Stddev	.00432	.00017	.00018	.0024	.00016
%RSD	5.4344	134.24	88.134	.2408	101.98
#1	-.08250	.00025	.00034	.9921	-.00026
#2	-.07640	.00001	.00008	.9888	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/13/2022 21:15:26 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00165**	**-.00027**	**-.00219**	**.9999**
Stddev	.00035	.00012	.00074	.0001
%RSD	21.465	44.612	33.717	.0070
#1	.00189	-.00035	-.00167	1.0000
#2	.00140	-.00018	-.00271	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3370.8**	**2482.0**	**23909.**	**3400.8**
Stddev	46.6	32.3	110.	10.2
%RSD	1.3837	1.3023	.46113	.29997
#1	3337.8	2459.2	23987.	3393.6
#2	3403.8	2504.9	23831.	3408.1

Sample Name: CCVL-7028546 Acquired: 6/13/2022 21:19:25 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00525**	**.19786**	**.01487**	**.01831**	**.00205**
Stddev	.00059	.01245	.00097	.00024	.00004
%RSD	11.189	6.2921	6.5297	1.3244	1.7582
#1	.00566	.20666	.01556	.01848	.00208
#2	.00483	.18906	.01419	.01814	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00198**	**.47075**	**.00191**	**-.0675**	**.00365**
Stddev	.00007	.00656	.00015	.0197	.00001
%RSD	3.7515	1.3938	7.8307	29.23	.24046
#1	.00203	.47539	.00202	-.0535	.00365
#2	.00192	.46611	.00181	-.0814	.00364
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00377**	**.01274**	W **.03425**	**.38832**	**.02612**
Stddev	.00034	.00026	.00136	.02092	.00110
%RSD	8.9865	2.0583	3.9677	5.3873	4.2131
#1	.00353	.01255	.03521	.40311	.02690
#2	.00401	.01292	.03329	.37353	.02534
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
Value			.05000		
Range			-30.000%		

Sample Name: CCVL-7028546 Acquired: 6/13/2022 21:19:25 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18891**	**.00302**	**.00978**	**.88565**	**.00921**
Stddev	.00340	.00001	.00039	.01218	.00001
%RSD	1.7990	.40149	3.9700	1.3755	.06490
#1	.19131	.00302	.00950	.89426	.00921
#2	.18650	.00303	.01005	.87703	.00922
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00924**	**.16510**	**.01699**	**.02449**
Stddev	.00	.00116	.00338	.00043	.00253
%RSD	.0038	12.595	2.0497	2.5099	10.345
#1	25.00	.01006	.16270	.01669	.02628
#2	25.00	.00842	.16749	.01729	.02270
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37899**	**.00862**	**.00484**	F **.9960**	**.00408**
Stddev	.01393	.00005	.00001	.0002	.00030
%RSD	3.6749	.58567	.22649	.0157	7.4009
#1	.38883	.00859	.00485	.9959	.00429
#2	.36914	.00866	.00483	.9961	.00386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/13/2022 21:19:25 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01911**	**.00468**	**.00740**	F **.9984**
Stddev	.00098	.00011	.00044	.0018
%RSD	5.1074	2.4417	5.9197	.1759
#1	.01842	.00476	.00709	.9972
#2	.01980	.00460	.00771	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3407.6**	**2516.5**	**24491.**	**3459.7**
Stddev	7.1	5.5	145.	28.7
%RSD	.20859	.22046	.59184	.83013
#1	3412.6	2520.5	24593.	3439.4
#2	3402.6	2512.6	24388.	3480.0

Sample Name: 480-198724-A-12-APDS Acquired: 6/13/2022 21:23:20 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05064**	**10.022**	**.21533**	**.57025**	**.21789**
Stddev	.00030	.031	.00112	.00041	.00019
%RSD	.59494	.31229	.52030	.07195	.08659
#1	.05085	9.9995	.21612	.56996	.21776
#2	.05043	10.044	.21454	.57054	.21802
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20941**	**131.05**	**.20637**	**-.0493**	**.20355**
Stddev	.00025	.18	.00013	.0096	.00024
%RSD	.12093	.14016	.06325	19.50	.11978
#1	.20923	130.93	.20628	-.0425	.20338
#2	.20959	131.18	.20646	-.0562	.20372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21210**	**.21287**	**9.9411**	**12.910**	**.25993**
Stddev	.00006	.00005	.0012	.067	.00162
%RSD	.02744	.02386	.01222	.51701	.62342
#1	.21206	.21291	9.9420	12.863	.25878
#2	.21214	.21284	9.9403	12.957	.26107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-12-APDS Acquired: 6/13/2022 21:23:20 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**112.57**	**.21030**	**.23084**	**84.713**	**.20133**
Stddev	.06	.00017	.00028	.083	.00110
%RSD	.05199	.07882	.12196	.09839	.54592
#1	112.53	.21018	.23064	84.654	.20056
#2	112.61	.21042	.23104	84.772	.20211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.73**	**.20404**	F **184.71**	**.21890**	**.21195**
Stddev	.00	.00122	.20	.00125	.00156
%RSD	.0023	.59885	.10614	.57211	.73422
#1	24.73	.20491	184.58	.21978	.21085
#2	24.73	.20318	184.85	.21801	.21305
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.983**	**.20315**	**3.9624**	**.9985**	**.20519**
Stddev	.003	.00151	.0042	.0090	.00058
%RSD	.01661	.74202	.10639	.8992	.28073
#1	15.981	.20208	3.9594	1.005	.20560
#2	15.985	.20421	3.9654	.9921	.20478
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-12-APDS Acquired: 6/13/2022 21:23:20 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21103**	**.20216**	**.20414**	**1.001**
Stddev	.00011	.00136	.00093	.000
%RSD	.05378	.67117	.45385	.0261
#1	.21111	.20120	.20479	1.001
#2	.21095	.20311	.20348	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2863.2**	**2335.6**	**22406.**	**3391.2**
Stddev	1.5	.0	49.	1.3
%RSD	.05287	.00018	.21686	.03887
#1	2864.2	2335.6	22372.	3392.2
#2	2862.1	2335.6	22441.	3390.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.790%	96.836%	95.187%	98.090%
Range				

Sample Name: 480-198724-A-12-B MS Acquired: 6/13/2022 21:27:03 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04857**	**9.7221**	**.20367**	**.58304**	**.21299**
Stddev	.00057	.0018	.00299	.00313	.00053
%RSD	1.1642	.01857	1.4691	.53690	.24857
#1	.04897	9.7233	.20156	.58083	.21336
#2	.04817	9.7208	.20579	.58526	.21262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19857**	**137.98**	**.19488**	**-.0750**	**.19314**
Stddev	.00016	.27	.00018	.0310	.00001
%RSD	.08277	.19598	.09260	41.34	.00323
#1	.19845	137.78	.19475	-.0531	.19314
#2	.19868	138.17	.19501	-.0969	.19315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19838**	**.20382**	**9.9473**	**12.852**	**.25904**
Stddev	.00024	.00098	.0032	.011	.00015
%RSD	.12001	.48267	.03168	.08652	.05797
#1	.19821	.20451	9.9451	12.845	.25915
#2	.19855	.20312	9.9496	12.860	.25894
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-12-B MS Acquired: 6/13/2022 21:27:03 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**117.81**	**.19866**	**.21923**	**89.557**	**.19095**
Stddev	.19	.00008	.00094	.070	.00061
%RSD	.15859	.04050	.43072	.07779	.32158
#1	117.94	.19860	.21856	89.606	.19139
#2	117.68	.19872	.21989	89.508	.19052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.74**	**.19343**	F **193.42**	**.20142**	**.20053**
Stddev	.00	.00056	.52	.00143	.00030
%RSD	.0026	.29198	.27063	.70946	.14840
#1	24.74	.19383	193.05	.20041	.20074
#2	24.74	.19303	193.79	.20243	.20032
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.852**	**.24013**	**4.1850**	**.9983**	**.19425**
Stddev	.076	.00014	.0081	.0007	.00111
%RSD	.54523	.05782	.19352	.0676	.57115
#1	13.905	.24023	4.1907	.9978	.19503
#2	13.799	.24003	4.1793	.9987	.19347
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-12-B MS Acquired: 6/13/2022 21:27:03 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19546**	**.18973**	**.19377**	**1.000**
Stddev	.00198	.00054	.00022	.001
%RSD	1.0112	.28216	.11318	.0871
#1	.19406	.18935	.19393	.9998
#2	.19686	.19011	.19362	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2836.1**	**2316.5**	**22227.**	**3353.0**
Stddev	.3	2.1	9.	8.7
%RSD	.00909	.08872	.04060	.25892
#1	2835.9	2318.0	22233.	3359.2
#2	2836.2	2315.1	22221.	3346.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.959%	96.043%	94.425%	96.985%
Range				

Sample Name: 198724-A-12-C MSD Acquired: 6/13/2022 21:30:45 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04771**	**9.5298**	**.20178**	**.57512**	**.21103**
Stddev	.00054	.0329	.00232	.00030	.00035
%RSD	1.1371	.34552	1.1491	.05264	.16367
#1	.04809	9.5531	.20342	.57490	.21079
#2	.04733	9.5065	.20014	.57533	.21128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19647**	**134.37**	**.19421**	**-.0873**	**.19261**
Stddev	.00000	.12	.00004	.0140	.00037
%RSD	.00183	.08786	.01920	16.05	.18995
#1	.19648	134.29	.19419	-.0774	.19235
#2	.19647	134.45	.19424	-.0972	.19287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19502**	**.22865**	**9.4060**	**12.628**	**.25646**
Stddev	.00041	.00067	.0224	.033	.00111
%RSD	.21064	.29241	.23776	.26094	.43100
#1	.19531	.22818	9.3902	12.651	.25724
#2	.19473	.22912	9.4218	12.604	.25568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 198724-A-12-C MSD Acquired: 6/13/2022 21:30:45 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**115.65**	**.19109**	**.21809**	**87.341**	**.19003**
Stddev	.13	.00013	.00029	.022	.00009
%RSD	.10838	.06639	.13451	.02572	.04993
#1	115.56	.19100	.21789	87.357	.19009
#2	115.74	.19118	.21830	87.326	.18996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.71**	**.19310**	F **191.73**	**.19995**	**.19731**
Stddev	.00	.00000	.22	.00040	.00264
%RSD	.0040	.00234	.11546	.19843	1.3390
#1	24.71	.19310	191.89	.19967	.19544
#2	24.71	.19309	191.57	.20023	.19917
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.783**	**.23545**	**4.1059**	**.9965**	**.19372**
Stddev	.061	.00068	.0024	.0008	.00039
%RSD	.47893	.28783	.05763	.0823	.20131
#1	12.826	.23593	4.1076	.9971	.19400
#2	12.739	.23497	4.1043	.9959	.19344
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 198724-A-12-C MSD Acquired: 6/13/2022 21:30:45 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19421**	**.18929**	**.19060**	**.9998**
Stddev	.00170	.00051	.00028	.0007
%RSD	.87722	.26733	.14882	.0746
#1	.19541	.18964	.19080	.9993
#2	.19301	.18893	.19040	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2874.9**	**2348.5**	**22577.**	**3493.4**
Stddev	7.9	7.6	31.	12.2
%RSD	.27548	.32570	.13638	.34850
#1	2880.5	2353.9	22555.	3502.1
#2	2869.3	2343.1	22599.	3484.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.149%	97.371%	95.912%	101.05%
Range				

Sample Name: 480-198724-A-13-O Acquired: 6/13/2022 21:34:28 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**-.01251**	**.00034**	**.06588**	**.03120**
Stddev	.00052	.01890	.00183	.00031	.00006
%RSD	122.90	151.08	544.71	.46482	.20793
#1	-.00006	-.02588	.00163	.06610	.03116
#2	-.00079	.00085	-.00096	.06567	.03125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**105.20**	**.00047**	**-.0529**	**.00002**
Stddev	.00009	.14	.00013	.0162	.00006
%RSD	291.36	.12963	26.876	30.63	400.45
#1	.00009	105.10	.00038	-.0414	.00006
#2	-.00003	105.29	.00056	-.0643	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00672**	**.00104**	**.51798**	**.00307**
Stddev	.00065	.00043	.00195	.01598	.00013
%RSD	311.78	6.3932	187.67	3.0843	4.2953
#1	.00067	.00642	-.00034	.50668	.00317
#2	-.00025	.00703	.00242	.52928	.00298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-13-O Acquired: 6/13/2022 21:34:28 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.701**	**.00542**	**.00285**	**23.431**	**.00080**
Stddev	.198	.00007	.00008	.005	.00002
%RSD	.40614	1.3695	2.8802	.02230	3.1255
#1	48.561	.00537	.00290	23.435	.00082
#2	48.841	.00547	.00279	23.427	.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00059**	**33.378**	**-.00130**	**.00193**
Stddev	.00	.00066	.006	.00054	.00373
%RSD	.0012	111.20	.01685	41.201	192.87
#1	25.01	-.00106	33.382	-.00168	.00457
#2	25.01	-.00013	33.374	-.00092	-.00070
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.1603**	**-.00027**	**.38058**	**.9946**	**.00072**
Stddev	.0089	.00064	.00049	.0011	.00043
%RSD	.17183	237.47	.12934	.1097	59.450
#1	5.1666	.00018	.38092	.9954	.00042
#2	5.1540	-.00073	.38023	.9939	.00103
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-13-O Acquired: 6/13/2022 21:34:28 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00070**	**-.00081**	**.00158**	**.9984**
Stddev	.00068	.00008	.00030	.0006
%RSD	96.842	9.8740	19.056	.0552
#1	-.00118	-.00087	.00179	.9980
#2	-.00022	-.00075	.00137	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3026.5**	**2389.0**	**22877.**	**3447.3**
Stddev	2.5	1.8	117.	14.7
%RSD	.08098	.07530	.51050	.42644
#1	3028.2	2390.3	22959.	3457.7
#2	3024.8	2387.7	22794.	3437.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.798%	99.048%	97.185%	99.713%
Range				

Sample Name: 480-198724-A-14-A Acquired: 6/13/2022 21:38:21 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00107**	**-.00443**	**.00080**	**.15940**	**.04076**
Stddev	.00016	.04046	.00140	.00022	.00011
%RSD	14.855	913.25	173.84	.13561	.27133
#1	-.00095	-.03304	-.00018	.15925	.04068
#2	-.00118	.02418	.00179	.15955	.04084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**126.61**	**.00067**	**-.0594**	**.00047**
Stddev	.00002	.34	.00009	.0423	.00010
%RSD	218.64	.26784	14.075	71.16	21.063
#1	-.00001	126.85	.00060	-.0893	.00040
#2	.00002	126.37	.00074	-.0295	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.00645**	**.00276**	**.40201**	**.00349**
Stddev	.00013	.00095	.00130	.05551	.00000
%RSD	31.799	14.714	47.136	13.807	.03667
#1	.00032	.00578	.00184	.36276	.00349
#2	.00050	.00712	.00368	.44126	.00349
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-14-A Acquired: 6/13/2022 21:38:21 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**64.523**	**.10052**	**.01370**	**15.053**	**.00184**
Stddev	.133	.00055	.00009	.059	.00004
%RSD	.20627	.54983	.66480	.39508	2.2494
#1	64.429	.10013	.01363	15.095	.00181
#2	64.617	.10091	.01376	15.010	.00187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00079**	**63.373**	**-.00307**	**-.00258**
Stddev	.00	.00060	.124	.00081	.00182
%RSD	.0065	75.775	.19563	26.349	70.591
#1	25.01	.00037	63.286	-.00250	-.00387
#2	25.01	.00121	63.461	-.00365	-.00129
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.8368**	**-.00048**	**.89785**	**.9925**	**.00080**
Stddev	.0117	.00040	.00350	.0001	.00010
%RSD	.30565	81.911	.38960	.0071	12.436
#1	3.8285	-.00076	.90033	.9925	.00073
#2	3.8451	-.00020	.89538	.9926	.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-14-A Acquired: 6/13/2022 21:38:21 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00046**	**-.00072**	**.00505**	**.9991**
Stddev	.00079	.00060	.00009	.0017
%RSD	171.47	83.302	1.7795	.1736
#1	-.00102	-.00030	.00499	.9978
#2	.00010	-.00115	.00511	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2976.9**	**2349.8**	**22541.**	**3357.2**
Stddev	7.6	3.8	136.	11.8
%RSD	.25472	.16298	.60228	.35163
#1	2971.6	2347.1	22637.	3365.5
#2	2982.3	2352.5	22445.	3348.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.278%	97.424%	95.760%	97.104%
Range				

Sample Name: 480-198724-A-15-A Acquired: 6/13/2022 21:42:12 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**-.00928**	**.00210**	**.40737**	**.01811**
Stddev	.00008	.00668	.00016	.00103	.00003
%RSD	17.231	72.003	7.6235	.25166	.15182
#1	-.00043	-.00456	.00198	.40664	.01809
#2	-.00055	-.01401	.00221	.40809	.01813
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**57.550**	**.00034**	**-.0427**	**.00014**
Stddev	.00012	.215	.00015	.0094	.00000
%RSD	1022.5	.37421	42.995	22.03	3.0288
#1	-.00010	57.703	.00044	-.0494	.00014
#2	.00007	57.398	.00024	-.0361	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.00580**	**-.00646**	**1.0246**	**.00772**
Stddev	.00028	.00136	.00111	.0172	.00018
%RSD	163.63	23.386	17.261	1.6756	2.2932
#1	-.00003	.00676	-.00725	1.0124	.00759
#2	.00037	.00484	-.00567	1.0367	.00784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-15-A Acquired: 6/13/2022 21:42:12 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Na8183
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.885**	**.00085**	**.07098**	**54.238**	**56.082**
Stddev	.069	.00006	.00041	.193	.243
%RSD	.25830	6.8266	.57285	.35552	.43389
#1	26.934	.00089	.07069	54.375	56.254
#2	26.836	.00081	.07127	54.102	55.910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Line	231.604 {446}	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}
IS Ref	(In2306)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**25.02**	**-.00007**	**68.468**	**-.00171**
Stddev	.00036	.00	.00138	.464	.00061
%RSD	67.857	.0052	1868.3	.67703	35.435
#1	.00079	25.02	.00090	68.140	-.00128
#2	.00028	25.02	-.00105	68.795	-.00214
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837
Line	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**3.9936**	**-.00058**	**1.0069**	**.9981**
Stddev	.00131	.0021	.00025	.0048	.0067
%RSD	654.09	.05150	43.941	.47442	.6695
#1	.00112	3.9951	-.00040	1.0102	1.003
#2	-.00072	3.9922	-.00076	1.0035	.9934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Sample Name: 480-198724-A-15-A Acquired: 6/13/2022 21:42:12 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**-.00000**	**-.00053**	**.00104**	**.9994**
Stddev	.00022	.00000	.00007	.00026	.0002
%RSD	75.809	1623.2	13.151	24.808	.0189
#1	.00014	.00000	-.00058	.00122	.9995
#2	.00045	-.00000	-.00048	.00086	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3078.4**	**2404.8**	**22906.**	**3369.1**
Stddev	23.8	18.3	87.	6.5
%RSD	.77283	.75992	.38027	.19256
#1	3061.6	2391.9	22845.	3364.5
#2	3095.2	2417.8	22968.	3373.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.390%	99.705%	97.311%	97.448%
Range				

Sample Name: 480-198724-A-16-A Acquired: 6/13/2022 21:46:04 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.01333**	**.00150**	**.40812**	**.01684**
Stddev	.00053	.02566	.00078	.00059	.00010
%RSD	367.31	192.42	52.273	.14414	.60586
#1	.00023	.03147	.00206	.40770	.01677
#2	-.00052	-.00481	.00095	.40853	.01691
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**53.901**	**.00034**	**-.0262**	**.00009**
Stddev	.00005	.426	.00013	.0493	.00020
%RSD	116.89	.78986	39.110	188.0	220.10
#1	-.00008	54.202	.00043	.0086	-.00005
#2	-.00001	53.600	.00025	-.0610	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**.00596**	**-.00562**	**.99774**	**.01021**
Stddev	.00033	.00073	.00141	.03561	.00170
%RSD	50.515	12.177	25.043	3.5695	16.658
#1	.00042	.00647	-.00462	1.0229	.01141
#2	.00089	.00544	-.00661	.97256	.00901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-16-A Acquired: 6/13/2022 21:46:04 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.400**	**.00077**	**.07553**	**52.968**	**.00051**
Stddev	.237	.00008	.00013	.256	.00016
%RSD	.89595	9.8804	.17680	.48421	31.009
#1	26.232	.00071	.07563	53.150	.00062
#2	26.567	.00082	.07544	52.787	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00078**	**63.677**	**-.00351**	**.00027**
Stddev	.00	.00023	.127	.00097	.00055
%RSD	.0050	29.037	.19900	27.596	207.85
#1	25.01	.00094	63.588	-.00420	-.00012
#2	25.02	.00062	63.767	-.00283	.00066
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.1524**	**-.00064**	**.92266**	**.9939**	**.00077**
Stddev	.0402	.00008	.00320	.0019	.00063
%RSD	.96893	11.842	.34689	.1887	81.721
#1	4.1809	-.00069	.92493	.9952	.00122
#2	4.1240	-.00059	.92040	.9925	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-16-A Acquired: 6/13/2022 21:46:04 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00047**	**-.00039**	**.00040**	**.9994**
Stddev	.00123	.00031	.00032	.0001
%RSD	262.55	79.422	80.374	.0055
#1	.00134	-.00017	.00063	.9993
#2	-.00040	-.00060	.00017	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3094.3**	**2421.5**	**23337.**	**3481.5**
Stddev	7.6	7.0	151.	57.2
%RSD	.24463	.28985	.64496	1.6431
#1	3099.7	2426.5	23443.	3441.1
#2	3089.0	2416.6	23230.	3522.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.878%	100.40%	99.138%	100.70%
Range				

Sample Name: 480-198724-A-17-A Acquired: 6/13/2022 21:49:55 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.01602**	**-.00006**	**.27503**	**.01959**
Stddev	.00045	.01436	.00109	.00001	.00002
%RSD	1069.3	89.635	1884.1	.00447	.12051
#1	-.00028	-.00587	-.00083	.27504	.01958
#2	.00036	-.02618	.00072	.27503	.01961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**209.59**	**.00070**	**-.0446**	**.00017**
Stddev	.00001	.38	.00024	.0393	.00008
%RSD	46.053	.18012	34.058	88.14	45.647
#1	-.00001	209.32	.00053	-.0723	.00011
#2	-.00002	209.86	.00087	-.0168	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.01432**	**.00373**	**1.7334**	**.01591**
Stddev	.00074	.00031	.00113	.0484	.00107
%RSD	193.38	2.1699	30.237	2.7897	6.7157
#1	.00091	.01454	.00293	1.7676	.01666
#2	-.00014	.01410	.00453	1.6992	.01515
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-17-A Acquired: 6/13/2022 21:49:55 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**101.26**	**.00086**	**.01955**	**64.250**	**.00183**
Stddev	.28	.00005	.00006	.423	.00023
%RSD	.27293	5.3040	.29107	.65767	12.317
#1	101.07	.00082	.01959	63.951	.00199
#2	101.46	.00089	.01951	64.549	.00167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00073**	F **233.59**	**-.00363**	**-.00202**
Stddev	.00	.00070	.22	.00097	.00082
%RSD	.0049	96.072	.09361	26.650	40.587
#1	25.00	.00023	233.43	-.00431	-.00144
#2	25.00	.00122	233.74	-.00294	-.00260
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.1171**	**-.00083**	**1.8320**	**1.001**	**.00141**
Stddev	.0417	.00034	.0010	.002	.00011
%RSD	.81557	41.186	.05511	.1653	7.7250
#1	5.0876	-.00059	1.8313	1.002	.00149
#2	5.1466	-.00108	1.8328	.9994	.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-17-A Acquired: 6/13/2022 21:49:55 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.00132**	**.05077**	**.9988**
Stddev	.00067	.00057	.00087	.0008
%RSD	330.83	42.704	1.7106	.0767
#1	-.00027	-.00092	.05015	.9993
#2	.00067	-.00172	.05138	.9982
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2887.9**	**2319.0**	**22109.**	**3433.2**
Stddev	2.8	.0	99.	27.2
%RSD	.09847	.00013	.44918	.79252
#1	2885.9	2319.0	22179.	3452.4
#2	2889.9	2319.0	22038.	3413.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.547%	96.144%	93.922%	99.302%
Range				

Sample Name: 480-198724-A-18-A Acquired: 6/13/2022 21:53:52 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**-.01107**	**.00005**	**.40860**	**.01409**
Stddev	.00001	.00709	.00114	.00250	.00000
%RSD	7.1205	64.000	2093.7	.61231	.02100
#1	.00011	-.00606	.00086	.41037	.01410
#2	.00012	-.01609	-.00075	.40683	.01409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**45.660**	**.00039**	**-.0362**	**.00009**
Stddev	.00001	.024	.00005	.0257	.00006
%RSD	58.925	.05288	12.852	71.07	62.380
#1	.00003	45.643	.00043	-.0180	.00014
#2	.00001	45.677	.00036	-.0543	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00833**	**-.00806**	**.99565**	**.00972**
Stddev	.00053	.00057	.00165	.04962	.00030
%RSD	212.56	6.8628	20.493	4.9837	3.1356
#1	.00062	.00874	-.00923	.96056	.00950
#2	-.00013	.00793	-.00690	1.0307	.00994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-18-A Acquired: 6/13/2022 21:53:52 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.417**	**.00096**	**.06210**	**74.247**	**.00063**
Stddev	.015	.00004	.00019	.350	.00013
%RSD	.05831	4.4006	.31071	.47156	21.377
#1	26.428	.00099	.06224	74.495	.00073
#2	26.406	.00093	.06197	74.000	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00089**	**76.062**	**-.00143**	**.00267**
Stddev	.00	.00030	.463	.00172	.00144
%RSD	.0026	33.889	.60886	120.84	54.092
#1	25.01	.00110	76.389	-.00021	.00369
#2	25.01	.00068	75.734	-.00264	.00165
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.8488**	**-.00019**	**1.1777**	**.9947**	**.00030**
Stddev	.0168	.00013	.0004	.0045	.00011
%RSD	.43546	69.005	.03545	.4562	37.849
#1	3.8370	-.00010	1.1774	.9915	.00022
#2	3.8607	-.00028	1.1780	.9979	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-18-A Acquired: 6/13/2022 21:53:52 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00074**	**-.00022**	**.00431**	**.9993**
Stddev	.00026	.00004	.00036	.0011
%RSD	36.025	18.572	8.3441	.1083
#1	-.00092	-.00024	.00405	.9985
#2	-.00055	-.00019	.00456	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3077.8**	**2423.5**	**23066.**	**3477.7**
Stddev	.4	2.9	47.	8.6
%RSD	.01391	.11970	.20575	.24721
#1	3078.1	2421.4	23033.	3483.8
#2	3077.5	2425.5	23100.	3471.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.371%	100.48%	97.989%	100.59%
Range				

Sample Name: CCV-7018483 Acquired: 6/13/2022 21:57:47 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95371**	**47.295**	**.96134**	**.98674**	**.96169**
Stddev	.00302	.129	.00202	.00069	.00377
%RSD	.31653	.27342	.20982	.07037	.39158
#1	.95158	47.387	.95992	.98625	.96435
#2	.95585	47.204	.96277	.98723	.95902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96212**	**47.513**	**.96163**	**.9456**	**.95285**
Stddev	.00365	.145	.00079	.0665	.00116
%RSD	.37971	.30610	.08192	7.031	.12129
#1	.96470	47.615	.96219	.9927	.95204
#2	.95953	47.410	.96107	.8986	.95367
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0088**	**.95176**	**48.033**	**47.186**	**.93288**
Stddev	.0009	.00282	.306	.102	.00009
%RSD	.08731	.29577	.63684	.21510	.00930
#1	1.0094	.94977	48.250	47.258	.93282
#2	1.0082	.95375	47.817	47.115	.93294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/13/2022 21:57:47 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.700**	**.98412**	**.98718**	**47.324**	**.96606**
Stddev	.013	.00105	.00095	.104	.00013
%RSD	.02608	.10688	.09655	.22018	.01337
#1	49.709	.98338	.98651	47.398	.96615
#2	49.691	.98486	.98786	47.251	.96596
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.04**	**.95565**	**23.650**	**.94959**	**.97530**
Stddev	.03	.00006	.042	.00239	.00349
%RSD	.0705	.00601	.17804	.25187	.35780
#1	37.05	.95570	23.680	.94789	.97283
#2	37.02	.95561	23.621	.95128	.97777
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3241**	**.95270**	**.93497**	**1.468**	**.96226**
Stddev	.0288	.00135	.00181	.005	.00082
%RSD	.30920	.14172	.19360	.3393	.08528
#1	9.3445	.95365	.93625	1.472	.96168
#2	9.3037	.95174	.93369	1.465	.96284
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/13/2022 21:57:47 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.98507**	**.96421**	**1.0064**	**1.487**
Stddev	.00049	.00487	.0024	.000
%RSD	.04938	.50539	.23479	.0022
#1	.98542	.96077	1.0081	1.487
#2	.98473	.96766	1.0047	1.487
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2899.5**	**2379.5**	**22291.**	**3315.8**
Stddev	14.9	11.8	23.	17.7
%RSD	.51225	.49675	.10476	.53245
#1	2910.0	2387.8	22275.	3303.3
#2	2889.0	2371.1	22308.	3328.3

Sample Name: CCB-7026764 Acquired: 6/13/2022 22:01:27 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00587**	**-.00052**	**.00091**	**.00001**
Stddev	.00088	.00381	.00059	.00015	.00002
%RSD	756.88	64.854	112.29	16.596	221.05
#1	.00051	.00318	-.00011	.00101	-.00001
#2	-.00074	.00856	-.00094	.00080	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00208**	**-.00007**	**-.0472**	**.00017**
Stddev	.00001	.00041	.00011	.0101	.00022
%RSD	19.788	19.614	169.74	21.51	131.20
#1	.00004	-.00179	.00001	-.0400	.00001
#2	.00005	-.00236	-.00015	-.0543	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.00333**	**-.01574**	**-.01646**	**.00215**
Stddev	.00034	.00076	.00207	.05791	.00154
%RSD	148.10	22.948	13.135	351.96	71.684
#1	.00001	.00387	-.01720	-.05741	.00324
#2	-.00047	.00279	-.01428	.02450	.00106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/13/2022 22:01:27 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00180**	**-.00019**	**.00016**	**.00064**	**.00003**
Stddev	.00064	.00000	.00006	.01062	.00002
%RSD	35.370	1.7341	37.221	1668.5	64.192
#1	.00135	-.00018	.00012	-.00687	.00004
#2	.00225	-.00019	.00021	.00815	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00016**	**-.01269**	**-.00271**	**.00114**
Stddev	.00	.00092	.00096	.00174	.00012
%RSD	.0047	559.41	7.5693	64.111	10.130
#1	25.02	.00081	-.01201	-.00148	.00122
#2	25.01	-.00049	-.01337	-.00394	.00106
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.10218**	**-.00052**	**.00016**	**.9965**	**-.00007**
Stddev	.01751	.00014	.00013	.0009	.00013
%RSD	17.136	26.814	80.830	.0948	199.74
#1	-.08980	-.00042	.00026	.9972	-.00016
#2	-.11456	-.00062	.00007	.9958	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/13/2022 22:01:27 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00070**	**-.00007**	**-.00222**	**.9996**
Stddev	.00042	.00023	.00011	.0012
%RSD	60.016	313.14	5.0582	.1213
#1	.00099	.00009	-.00214	1.001
#2	.00040	-.00024	-.00230	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3406.6**	**2498.0**	**24495.**	**3454.9**
Stddev	5.6	3.0	112.	1.5
%RSD	.16567	.12106	.45521	.04410
#1	3410.6	2500.2	24416.	3456.0
#2	3402.6	2495.9	24574.	3453.8

Sample Name: CCVL-7028546 Acquired: 6/13/2022 22:05:25 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00449**	**.17419**	**.01315**	**.01915**	**.00200**
Stddev	.00042	.01048	.00038	.00008	.00004
%RSD	9.3343	6.0163	2.8691	.43198	1.7858
#1	.00478	.16678	.01288	.01921	.00203
#2	.00419	.18160	.01342	.01909	.00197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00202**	**.47209**	**.00192**	**-.0406**	**.00373**
Stddev	.00000	.00066	.00001	.0014	.00011
%RSD	.07194	.13956	.34347	3.330	2.8198
#1	.00202	.47256	.00192	-.0397	.00381
#2	.00202	.47163	.00193	-.0416	.00366
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00405**	W **.01383**	W **.03215**	**.35473**	**.02680**
Stddev	.00016	.00049	.00256	.05269	.00102
%RSD	3.9466	3.5168	7.9644	14.853	3.8238
#1	.00416	.01418	.03034	.31748	.02752
#2	.00394	.01349	.03396	.39199	.02607
Check ?	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Pass
Value		.01000	.05000		
Range		30.000%	-30.000%		

Sample Name: CCVL-7028546 Acquired: 6/13/2022 22:05:25 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18796**	**.00301**	**.00997**	**.88595**	**.00919**
Stddev	.00497	.00009	.00005	.00851	.00012
%RSD	2.6426	3.0881	.49494	.96053	1.3542
#1	.19147	.00294	.01001	.87993	.00910
#2	.18445	.00307	.00994	.89196	.00927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00902**	**.17208**	**.01727**	**.02540**
Stddev	.00	.00075	.00029	.00094	.00229
%RSD	.0070	8.2772	.16883	5.4236	9.0330
#1	25.00	.00955	.17229	.01793	.02378
#2	25.00	.00849	.17188	.01661	.02702
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.36882**	**.00796**	**.00486**	F **1.002**	**.00485**
Stddev	.00725	.00072	.00007	.001	.00041
%RSD	1.9667	9.0421	1.3559	.1394	8.5337
#1	.37395	.00846	.00491	1.003	.00514
#2	.36369	.00745	.00482	1.001	.00456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/13/2022 22:05:25 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01877**	**.00466**	**.00766**	F **.9996**
Stddev	.00088	.00001	.00010	.0009
%RSD	4.7000	.20211	1.2685	.0926
#1	.01939	.00465	.00772	1.000
#2	.01814	.00466	.00759	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3384.7**	**2498.9**	**24411.**	**3414.6**
Stddev	.7	.9	91.	34.8
%RSD	.02155	.03406	.37448	1.0182
#1	3384.1	2499.5	24346.	3439.2
#2	3385.2	2498.3	24475.	3390.1

Sample Name: 480-198724-A-19-A Acquired: 6/13/2022 22:09:20 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.01463**	**.00402**	**.45041**	**.01294**
Stddev	.00011	.00254	.00128	.00225	.00001
%RSD	106.21	17.367	31.824	.49972	.11027
#1	-.00018	.01643	.00312	.44881	.01295
#2	-.00003	.01283	.00492	.45200	.01293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**22.652**	**.00020**	**-.0385**	**.00013**
Stddev	.00002	.036	.00001	.0092	.00004
%RSD	1052.4	.15900	6.3824	23.98	34.495
#1	.00002	22.678	.00021	-.0320	.00010
#2	-.00001	22.627	.00019	-.0451	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00494**	**.00747**	**.58376**	**.00330**
Stddev	.00019	.00053	.00104	.03779	.00027
%RSD	78.042	10.700	13.927	6.4738	8.2495
#1	.00011	.00531	.00820	.55704	.00310
#2	.00038	.00457	.00673	.61048	.00349
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-19-A Acquired: 6/13/2022 22:09:20 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7343**	**.00813**	**.06434**	**67.780**	**.00015**
Stddev	.0448	.00004	.00001	.532	.00071
%RSD	.46053	.47222	.01680	.78484	471.41
#1	9.7026	.00816	.06433	68.156	.00065
#2	9.7660	.00810	.06435	67.404	-.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00007**	**54.734**	**-.00306**	**.00165**
Stddev	.00	.00018	.396	.00012	.00434
%RSD	.0008	252.20	.72387	3.9233	262.83
#1	25.02	-.00020	54.454	-.00298	.00472
#2	25.02	.00006	55.014	-.00315	-.00142
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.6766**	**.00015**	**.85747**	**.9916**	**-.00011**
Stddev	.0095	.00090	.00160	.0039	.00022
%RSD	.25940	589.85	.18672	.3891	194.60
#1	3.6698	.00079	.85861	.9943	.00004
#2	3.6833	-.00049	.85634	.9888	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-19-A Acquired: 6/13/2022 22:09:20 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00034**	**-.00003**	**.00029**	**.9984**
Stddev	.00152	.00045	.00010	.0002
%RSD	442.69	1450.3	34.183	.0240
#1	-.00073	.00028	.00022	.9986
#2	.00142	-.00035	.00036	.9982
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3107.8**	**2422.7**	**22916.**	**3354.3**
Stddev	53.5	40.9	43.	18.1
%RSD	1.7203	1.6902	.18706	.53948
#1	3070.0	2393.7	22946.	3367.1
#2	3145.6	2451.6	22886.	3341.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.291%	100.44%	97.351%	97.021%
Range				

Sample Name: 480-198724-A-20-A Acquired: 6/13/2022 22:13:13 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**-.01653**	**.00102**	**.13827**	**.01475**
Stddev	.00045	.00049	.00028	.00012	.00002
%RSD	81.119	2.9751	27.762	.08624	.15950
#1	-.00024	-.01618	.00122	.13835	.01473
#2	-.00087	-.01688	.00082	.13818	.01476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**255.41**	**.00066**	**-.0546**	**.00019**
Stddev	.00011	.25	.00017	.0098	.00002
%RSD	209.96	.09832	25.384	17.98	8.2197
#1	-.00013	255.58	.00078	-.0476	.00020
#2	.00003	255.23	.00054	-.0615	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**.01053**	**.04263**	**3.1598**	**.02996**
Stddev	.00035	.00066	.00081	.0556	.00014
%RSD	49.379	6.2939	1.8901	1.7611	.45232
#1	.00047	.01007	.04320	3.1992	.03005
#2	.00097	.01100	.04206	3.1205	.02986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-20-A Acquired: 6/13/2022 22:13:13 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**127.28**	**.00677**	**.00762**	**57.617**	**.00235**
Stddev	.05	.00003	.00013	.230	.00038
%RSD	.03894	.45940	1.6601	.39844	16.078
#1	127.25	.00675	.00771	57.780	.00262
#2	127.32	.00679	.00753	57.455	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00162**	F **307.87**	**-.00234**	**-.00193**
Stddev	.00	.00097	.82	.00137	.00001
%RSD	.0030	59.774	.26482	58.343	.35127
#1	25.01	.00230	308.44	-.00137	-.00192
#2	25.01	.00094	307.29	-.00331	-.00193
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.4081**	**-.00109**	**1.6299**	**.9980**	**.00178**
Stddev	.0168	.00075	.0009	.0084	.00004
%RSD	.30975	68.538	.05711	.8383	2.3126
#1	5.4199	-.00162	1.6305	.9921	.00180
#2	5.3962	-.00056	1.6292	1.004	.00175
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-20-A Acquired: 6/13/2022 22:13:13 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00101**	**-.00171**	**.00260**	**.9988**
Stddev	.00049	.00003	.00019	.0003
%RSD	48.083	1.7124	7.1862	.0286
#1	-.00067	-.00169	.00273	.9990
#2	-.00136	-.00173	.00246	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2883.2**	**2325.7**	**22478.**	**3516.7**
Stddev	6.5	1.8	45.	5.5
%RSD	.22608	.07683	.20200	.15567
#1	2887.8	2327.0	22510.	3512.8
#2	2878.6	2324.5	22446.	3520.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.405%	96.425%	95.490%	101.72%
Range				

Sample Name: 480-198724-A-21-A Acquired: 6/13/2022 22:17:10 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.01299**	**.00034**	**.55493**	**.01636**
Stddev	.00019	.01064	.00088	.00050	.00001
%RSD	203.62	81.966	259.87	.08956	.08479
#1	.00004	.02051	.00096	.55528	.01635
#2	-.00023	.00546	-.00028	.55458	.01637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**27.692**	**.00023**	**-.0414**	**.00023**
Stddev	.00003	.016	.00001	.0265	.00009
%RSD	45.209	.05938	2.9999	63.96	39.678
#1	.00010	27.680	.00023	-.0601	.00029
#2	.00005	27.704	.00024	-.0227	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.00755**	**-.00355**	**.87456**	**.00663**
Stddev	.00003	.00009	.00219	.01684	.00025
%RSD	9.1726	1.1913	61.766	1.9255	3.8187
#1	.00028	.00762	-.00200	.86265	.00645
#2	.00031	.00749	-.00510	.88646	.00680
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-21-A Acquired: 6/13/2022 22:17:10 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9937**	**.00064**	**.09844**	**73.233**	**.00088**
Stddev	.0233	.00003	.00018	.070	.00017
%RSD	.23367	4.8670	.17943	.09533	19.759
#1	9.9772	.00062	.09832	73.283	.00075
#2	10.010	.00067	.09857	73.184	.00100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00053**	**60.025**	**-.00084**	**-.00328**
Stddev	.00	.00048	.121	.00083	.00358
%RSD	.0004	89.985	.20158	98.911	109.23
#1	25.02	.00019	60.111	-.00025	-.00075
#2	25.02	.00087	59.940	-.00143	-.00581
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.4368**	**-.00022**	**.82730**	**.9945**	**-.00033**
Stddev	.0099	.00009	.00041	.0090	.00004
%RSD	.28852	39.736	.04963	.9091	13.019
#1	3.4298	-.00016	.82759	.9881	-.00030
#2	3.4438	-.00028	.82701	1.001	-.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-21-A Acquired: 6/13/2022 22:17:10 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00069**	**.00014**	**.00154**	**.9994**
Stddev	.00039	.00005	.00030	.0008
%RSD	56.439	36.552	19.467	.0804
#1	.00041	.00018	.00132	1.000
#2	.00096	.00010	.00175	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3098.4**	**2426.4**	**22861.**	**3448.0**
Stddev	9.2	3.7	70.	24.8
%RSD	.29832	.15128	.30644	.71876
#1	3091.9	2423.8	22812.	3465.5
#2	3105.0	2429.0	22911.	3430.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.003%	100.60%	97.119%	99.731%
Range				

Sample Name: 480-198724-A-22-A Acquired: 6/13/2022 22:21:02 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.00311**	**.00135**	**.38133**	**.02293**
Stddev	.00041	.00952	.00005	.00083	.00003
%RSD	145.56	306.45	3.9881	.21668	.13607
#1	.00001	.00983	.00131	.38075	.02291
#2	-.00057	-.00362	.00139	.38192	.02295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**53.825**	**.00024**	**-.0454**	**.00024**
Stddev	.00005	.077	.00011	.0209	.00017
%RSD	144.51	.14272	44.174	46.09	70.718
#1	-.00007	53.880	.00016	-.0306	.00036
#2	.00000	53.771	.00031	-.0602	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00490**	**-.00331**	**1.3442**	**.01088**
Stddev	.00039	.00049	.00044	.0103	.00024
%RSD	479.12	10.030	13.329	.76380	2.2420
#1	-.00036	.00455	-.00300	1.3369	.01071
#2	.00020	.00525	-.00362	1.3514	.01105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-22-A Acquired: 6/13/2022 22:21:02 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.195**	**.00098**	**.15545**	**81.994**	**.00055**
Stddev	.008	.00003	.00019	.318	.00025
%RSD	.02880	2.7140	.12240	.38757	46.011
#1	26.201	.00100	.15532	82.219	.00073
#2	26.190	.00096	.15559	81.769	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00071**	**66.054**	**-.00259**	**-.00186**
Stddev	.00	.00109	.013	.00107	.00118
%RSD	.0028	153.16	.02022	41.325	63.612
#1	25.02	-.00149	66.045	-.00183	-.00269
#2	25.02	.00006	66.064	-.00334	-.00102
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.1215**	**-.00053**	**1.1940**	**.9930**	**.00015**
Stddev	.0031	.00020	.0029	.0034	.00032
%RSD	.05998	38.932	.24092	.3385	216.89
#1	5.1236	-.00067	1.1960	.9906	.00037
#2	5.1193	-.00038	1.1920	.9953	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-22-A Acquired: 6/13/2022 22:21:02 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00028**	**-.00017**	**-.00027**	**.9990**
Stddev	.00038	.00002	.00013	.0001
%RSD	133.71	11.214	47.090	.0088
#1	.00055	-.00018	-.00037	.9990
#2	.00002	-.00015	-.00018	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3055.3**	**2402.1**	**23017.**	**3429.0**
Stddev	.0	2.9	4.	.1
%RSD	.00120	.12252	.01653	.00334
#1	3055.3	2404.2	23020.	3429.1
#2	3055.3	2400.0	23014.	3428.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.681%	99.592%	97.780%	99.182%
Range				

Sample Name: 480-198724-A-23-A Acquired: 6/13/2022 22:24:53 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.09663**	**.00170**	**.47544**	**.01600**
Stddev	.00022	.01136	.00076	.00045	.00000
%RSD	47.453	11.753	44.687	.09414	.01647
#1	-.00031	.08860	.00224	.47575	.01600
#2	-.00062	.10466	.00116	.47512	.01600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**23.433**	**.00029**	**-.0144**	**.00024**
Stddev	.00003	.132	.00009	.0445	.00030
%RSD	138.49	.56410	32.431	310.0	125.70
#1	.00000	23.527	.00022	-.0458	.00045
#2	.00004	23.340	.00036	.0171	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**.00550**	**.05711**	**.80586**	**.00571**
Stddev	.00026	.00018	.00200	.02128	.00075
%RSD	36.539	3.2551	3.5028	2.6412	13.162
#1	.00054	.00537	.05852	.79081	.00624
#2	.00091	.00563	.05569	.82091	.00518
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-23-A Acquired: 6/13/2022 22:24:53 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.198**	**.00056**	**.09163**	**77.856**	**.00069**
Stddev	.055	.00003	.00035	.629	.00021
%RSD	.54099	4.9049	.38062	.80734	30.006
#1	10.237	.00058	.09188	78.301	.00084
#2	10.159	.00054	.09138	77.412	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00071**	**51.866**	**-.00063**	**.00374**
Stddev	.00	.00104	.191	.00214	.00215
%RSD	.0022	147.55	.36812	340.92	57.535
#1	25.02	-.00003	52.001	.00089	.00526
#2	25.02	.00145	51.731	-.00214	.00222
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1348**	**-.00005**	**.73428**	**.9930**	**.00162**
Stddev	.0120	.00038	.00276	.0041	.00045
%RSD	.38194	794.59	.37566	.4173	27.708
#1	3.1433	.00022	.73623	.9960	.00194
#2	3.1264	-.00032	.73233	.9901	.00130
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-23-A Acquired: 6/13/2022 22:24:53 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00177**	**.00013**	**.00056**	**.9992**
Stddev	.00071	.00024	.00004	.0003
%RSD	40.092	185.20	7.5748	.0343
#1	.00227	.00030	.00059	.9989
#2	.00127	-.00004	.00053	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3114.5**	**2431.0**	**23398.**	**3459.6**
Stddev	5.1	5.8	92.	24.3
%RSD	.16377	.23907	.39468	.70316
#1	3118.1	2435.1	23333.	3442.4
#2	3110.9	2426.9	23463.	3476.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.497%	100.79%	99.399%	100.07%
Range				

Sample Name: 480-198724-A-24-O Acquired: 6/13/2022 22:28:45 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00117**	**.01010**	**.00043**	**.42056**	**.01669**
Stddev	.00000	.06348	.00208	.00172	.00006
%RSD	.22087	628.50	487.44	.40851	.35700
#1	-.00118	-.03479	-.00105	.41934	.01673
#2	-.00117	.05499	.00190	.42177	.01665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**42.326**	**.00012**	**-.0138**	**.00024**
Stddev	.00006	.179	.00010	.0095	.00003
%RSD	82.561	.42174	86.418	69.22	12.214
#1	.00012	42.453	.00019	-.0070	.00022
#2	.00003	42.200	.00005	-.0205	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.00628**	**-.00557**	**1.0585**	**.00842**
Stddev	.00011	.00015	.00044	.0269	.00065
%RSD	63.176	2.4394	7.9106	2.5447	7.7544
#1	.00024	.00617	-.00588	1.0395	.00888
#2	.00009	.00639	-.00526	1.0776	.00796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-24-O Acquired: 6/13/2022 22:28:45 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.495**	**.01503**	**.10793**	**75.221**	**.00134**
Stddev	.002	.00010	.00030	.231	.00026
%RSD	.00894	.65600	.27608	.30644	19.669
#1	20.494	.01510	.10772	75.058	.00116
#2	20.497	.01496	.10814	75.384	.00153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00035**	**71.884**	**-.00227**	**.00014**
Stddev	.00	.00013	.096	.00256	.00054
%RSD	.0005	38.493	.13385	112.53	385.26
#1	25.02	.00025	71.816	-.00408	.00052
#2	25.02	.00044	71.952	-.00046	-.00024
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.2066**	**-.00058**	**1.0853**	**.9975**	**-.00002**
Stddev	.0220	.00048	.0033	.0073	.00002
%RSD	.68556	82.729	.30717	.7326	106.89
#1	3.2222	-.00091	1.0876	.9923	-.00004
#2	3.1911	-.00024	1.0829	1.003	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-24-O Acquired: 6/13/2022 22:28:45 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00016**	**-.00012**	**.00111**	**.9996**
Stddev	.00047	.00006	.00051	.0001
%RSD	292.99	48.154	46.244	.0065
#1	-.00049	-.00016	.00075	.9996
#2	.00017	-.00008	.00147	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3076.9**	**2412.7**	**23097.**	**3412.8**
Stddev	7.3	8.1	53.	19.0
%RSD	.23849	.33399	.22815	.55659
#1	3082.1	2418.4	23134.	3399.4
#2	3071.7	2407.0	23059.	3426.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.342%	100.03%	98.119%	98.715%
Range				

Sample Name: 480-198724-A-25-A Acquired: 6/13/2022 22:32:37 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00093**	**.00210**	**-.00093**	**.21057**	**.01931**
Stddev	.00019	.02767	.00214	.00138	.00001
%RSD	19.999	1316.8	229.66	.65714	.05471
#1	-.00106	-.01746	-.00244	.21155	.01930
#2	-.00080	.02167	.00058	.20959	.01932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**93.766**	**.00049**	**-.0244**	**.00012**
Stddev	.00003	.432	.00010	.0375	.00011
%RSD	89.875	.46067	21.329	154.0	97.141
#1	.00001	94.072	.00056	.0022	.00020
#2	.00005	93.461	.00042	-.0509	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00816**	**-.01042**	**1.7607**	**.02168**
Stddev	.00028	.00014	.00163	.0134	.00098
%RSD	99.415	1.7228	15.638	.76153	4.5239
#1	.00048	.00806	-.01157	1.7702	.02099
#2	.00008	.00826	-.00927	1.7512	.02238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-25-A Acquired: 6/13/2022 22:32:37 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**62.551**	**.00097**	**.03360**	**58.470**	**.00130**
Stddev	.099	.00004	.00039	.515	.00001
%RSD	.15759	3.7879	1.1568	.88101	1.0665
#1	62.481	.00100	.03333	58.834	.00129
#2	62.620	.00095	.03388	58.105	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00048**	**78.163**	**-.00322**	**-.00195**
Stddev	.00	.00018	.111	.00310	.00053
%RSD	.0021	37.579	.14170	96.463	27.172
#1	25.01	.00036	78.241	-.00541	-.00233
#2	25.02	.00061	78.084	-.00102	-.00158
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.2258**	**-.00040**	**1.2458**	**.9971**	**.00072**
Stddev	.0315	.00028	.0031	.0061	.00017
%RSD	.50536	71.882	.25146	.6153	24.095
#1	6.2480	-.00019	1.2481	.9927	.00085
#2	6.2035	-.00060	1.2436	1.001	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-25-A Acquired: 6/13/2022 22:32:37 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00097**	**-.00032**	**.00243**	**.9993**
Stddev	.00211	.00016	.00020	.0007
%RSD	217.84	51.243	8.1865	.0678
#1	-.00052	-.00020	.00257	.9998
#2	.00246	-.00043	.00229	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2971.6**	**2362.0**	**22615.**	**3415.4**
Stddev	9.5	8.1	33.	16.4
%RSD	.31819	.34288	.14474	.47918
#1	2978.3	2367.8	22592.	3403.8
#2	2964.9	2356.3	22639.	3427.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.115%	97.931%	96.075%	98.789%
Range				

Sample Name: 480-198724-A-26-A Acquired: 6/13/2022 22:36:28 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**-.00277**	**-.00122**	**.19799**	**.01770**
Stddev	.00009	.00951	.00038	.00118	.00003
%RSD	14.748	343.68	31.645	.59421	.19587
#1	-.00069	-.00949	-.00094	.19883	.01768
#2	-.00056	.00396	-.00149	.19716	.01772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**101.99**	**.00055**	**-.0559**	**.00000**
Stddev	.00007	.94	.00012	.0293	.00011
%RSD	184.66	.92347	22.445	52.44	3704.1
#1	.00009	102.66	.00064	-.0352	-.00007
#2	-.00001	101.33	.00047	-.0766	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.00576**	**-.00575**	**1.9577**	**.02428**
Stddev	.00014	.00013	.00161	.0180	.00063
%RSD	25.959	2.2944	28.015	.91884	2.6082
#1	.00063	.00567	-.00689	1.9450	.02383
#2	.00043	.00586	-.00461	1.9705	.02472
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-26-A Acquired: 6/13/2022 22:36:28 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**71.145**	**.00053**	**.03490**	**69.386**	**.00120**
Stddev	.060	.00004	.00028	.361	.00011
%RSD	.08494	7.8615	.80898	.52026	9.5644
#1	71.103	.00050	.03510	69.642	.00112
#2	71.188	.00056	.03470	69.131	.00128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00161**	F **101.83**	**-.00228**	**-.00272**
Stddev	.00	.00051	.48	.00163	.00186
%RSD	.0052	31.459	.47489	71.545	68.193
#1	25.01	.00197	102.17	-.00344	-.00404
#2	25.01	.00125	101.49	-.00113	-.00141
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.3489**	**-.00014**	**1.6452**	**.9944**	**.00107**
Stddev	.0582	.00077	.0047	.0031	.00037
%RSD	1.0883	570.62	.28421	.3142	34.834
#1	5.3900	-.00068	1.6485	.9966	.00081
#2	5.3077	.00041	1.6419	.9922	.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-26-A Acquired: 6/13/2022 22:36:28 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00027**	**-.00118**	**.00061**	**.9998**
Stddev	.00227	.00035	.00056	.0002
%RSD	855.97	29.966	92.036	.0172
#1	.00187	-.00093	.00021	.9999
#2	-.00134	-.00143	.00101	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2976.3**	**2374.0**	**22904.**	**3457.5**
Stddev	29.0	25.0	42.	102.9
%RSD	.97290	1.0524	.18387	2.9764
#1	2996.8	2391.7	22934.	3384.7
#2	2955.9	2356.3	22874.	3530.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.260%	98.427%	97.301%	100.01%
Range				

Sample Name: 480-198724-A-27-A Acquired: 6/13/2022 22:40:19 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.01294**	**-.00003**	**.57151**	**.01172**
Stddev	.00050	.03445	.00125	.00104	.00005
%RSD	70.684	266.26	4717.1	.18253	.45530
#1	-.00107	.03730	.00086	.57224	.01168
#2	-.00036	-.01142	-.00091	.57077	.01176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**186.29**	**.00060**	**-.0882**	**.00011**
Stddev	.00005	.31	.00008	.0102	.00014
%RSD	1207.7	.16656	13.179	11.55	120.39
#1	.00003	186.07	.00065	-.0954	.00002
#2	-.00004	186.51	.00054	-.0810	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00696**	**-.00986**	**1.7655**	**.00788**
Stddev	.00001	.00017	.00006	.0005	.00181
%RSD	24.424	2.4640	.59649	.02756	22.910
#1	.00007	.00708	-.00990	1.7659	.00661
#2	.00005	.00684	-.00982	1.7652	.00916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-27-A Acquired: 6/13/2022 22:40:19 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**67.643**	**.00127**	**.16898**	**160.52**	**.00094**
Stddev	.232	.00005	.00066	1.05	.00005
%RSD	.34250	3.8369	.39053	.65408	5.1210
#1	67.807	.00131	.16944	161.26	.00090
#2	67.479	.00124	.16851	159.78	.00097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00047**	F **339.98**	**-.00157**	**-.00291**
Stddev	.00	.00080	1.56	.00192	.00170
%RSD	.0043	170.31	.45935	122.14	58.445
#1	25.02	.00010	341.08	-.00021	-.00171
#2	25.02	-.00103	338.87	-.00293	-.00411
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.0579**	**-.00062**	**4.6897**	**.9957**	**.00108**
Stddev	.0003	.00040	.0277	.0071	.00022
%RSD	.00905	65.308	.58949	.7120	20.002
#1	3.0581	-.00033	4.7093	1.001	.00093
#2	3.0577	-.00091	4.6702	.9907	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-27-A Acquired: 6/13/2022 22:40:19 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00022**	**-.00057**	**.00067**	**.9987**
Stddev	.00057	.00010	.00044	.0012
%RSD	255.52	17.718	66.031	.1164
#1	.00063	-.00064	.00098	.9995
#2	-.00018	-.00050	.00036	.9978
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2876.9**	**2334.1**	**21882.**	**3285.4**
Stddev	13.5	6.8	418.	13.9
%RSD	.46946	.28921	1.9102	.42332
#1	2886.5	2338.9	21586.	3295.2
#2	2867.4	2329.4	22177.	3275.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.212%	96.774%	92.957%	95.027%
Range				

Sample Name: CCV-7018483 Acquired: 6/13/2022 22:44:18 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.91981**	**47.111**	**.96248**	**1.0032**	**.96854**
Stddev	.00121	.098	.00411	.0030	.00399
%RSD	.13117	.20697	.42696	.30140	.41171
#1	.91896	47.180	.95958	1.0010	.97136
#2	.92067	47.042	.96539	1.0053	.96572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97121**	**47.301**	**.95988**	**.9337**	**.94411**
Stddev	.00281	.105	.00123	.0387	.00064
%RSD	.28939	.22109	.12866	4.147	.06830
#1	.97320	47.375	.95900	.9611	.94456
#2	.96923	47.227	.96075	.9063	.94365
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0104**	**.94582**	**46.948**	**48.541**	**.94715**
Stddev	.0002	.00591	.247	.220	.00338
%RSD	.02027	.62475	.52659	.45265	.35685
#1	1.0105	.94164	47.123	48.696	.94954
#2	1.0102	.95000	46.773	48.385	.94476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/13/2022 22:44:18 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.529**	**.99057**	**1.0064**	**47.943**	**.96005**
Stddev	.044	.00333	.0019	.160	.00236
%RSD	.09102	.33631	.19126	.33421	.24593
#1	48.498	.98821	1.0051	48.057	.96172
#2	48.561	.99292	1.0078	47.830	.95838
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.93**	**.94458**	**23.432**	**.95271**	**.98524**
Stddev	.01	.00183	.005	.00365	.00497
%RSD	.0270	.19391	.01989	.38342	.50438
#1	36.93	.94587	23.429	.95012	.98173
#2	36.92	.94328	23.435	.95529	.98876
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2480**	**.93568**	**.95337**	**1.457**	**.94679**
Stddev	.0372	.00123	.00385	.001	.00440
%RSD	.40208	.13168	.40382	.0791	.46483
#1	9.2743	.93655	.95609	1.456	.94368
#2	9.2217	.93481	.95065	1.458	.94990
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/13/2022 22:44:18 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99202**	**.93926**	**.97712**	**1.500**
Stddev	.00298	.00332	.00293	.001
%RSD	.30087	.35328	.29949	.0632
#1	.99413	.93692	.97505	1.501
#2	.98991	.94161	.97919	1.500
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2913.6**	**2380.1**	**22523.**	**3317.3**
Stddev	5.1	.9	5.	2.0
%RSD	.17602	.03849	.02311	.06115
#1	2910.0	2379.5	22519.	3315.9
#2	2917.2	2380.7	22526.	3318.8

Sample Name: CCB-7026764 Acquired: 6/13/2022 22:47:59 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**-.00745**	**.00081**	**.00094**	**.00000**
Stddev	.00033	.04915	.00088	.00006	.00004
%RSD	91.590	659.97	108.58	6.4290	1505.4
#1	.00013	-.04220	.00019	.00090	.00003
#2	.00060	.02731	.00144	.00099	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00260**	**.00003**	**-.0154**	**.00012**
Stddev	.00002	.00242	.00004	.0044	.00008
%RSD	109.52	93.079	121.15	28.59	66.797
#1	-.00003	-.00089	.00000	-.0185	.00018
#2	-.00000	-.00431	.00006	-.0123	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.00393**	**-.01430**	**-.04172**	**.00057**
Stddev	.00023	.00055	.00108	.00611	.00090
%RSD	97.854	14.065	7.5602	14.636	157.40
#1	-.00007	.00433	-.01353	-.04603	.00121
#2	-.00040	.00354	-.01506	-.03740	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/13/2022 22:47:59 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00144**	**-.00011**	**.00041**	**.00490**	**.00027**
Stddev	.00252	.00003	.00004	.00039	.00010
%RSD	175.14	25.533	10.731	7.9220	37.488
#1	-.00322	-.00013	.00038	.00463	.00020
#2	.00034	-.00009	.00044	.00518	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00005**	**-.00023**	**-.00177**	**.00057**
Stddev	.00	.00092	.00292	.00080	.00043
%RSD	.0009	1903.9	1268.7	45.234	74.859
#1	25.02	-.00070	-.00230	-.00233	.00027
#2	25.02	.00060	.00184	-.00120	.00087
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.09073**	**-.00016**	**.00010**	**.9984**	**.00019**
Stddev	.00011	.00021	.00014	.0118	.00016
%RSD	.11785	125.78	147.06	1.183	88.654
#1	-.09081	-.00031	.00020	1.007	.00030
#2	-.09066	-.00002	-.00000	.9901	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/13/2022 22:47:59 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00208**	**-.00007**	**-.00200**	**.9998**
Stddev	.00003	.00020	.00035	.0006
%RSD	1.5289	268.65	17.480	.0626
#1	.00210	.00007	-.00175	1.000
#2	.00206	-.00022	-.00225	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3408.7**	**2498.6**	**24381.**	**3356.9**
Stddev	4.5	1.7	10.	6.4
%RSD	.13191	.06923	.03978	.19102
#1	3405.5	2497.4	24388.	3352.4
#2	3411.9	2499.8	24374.	3361.4

Sample Name: CCVL-7028546 Acquired: 6/13/2022 22:51:57 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00486**	**.21025**	**.01418**	**.01891**	**.00198**
Stddev	.00072	.01144	.00223	.00005	.00000
%RSD	14.884	5.4428	15.703	.28012	.02355
#1	.00435	.20216	.01576	.01888	.00198
#2	.00537	.21834	.01261	.01895	.00198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00202**	**.47033**	**.00195**	**.0046**	**.00364**
Stddev	.00013	.00291	.00013	.0275	.00005
%RSD	6.5768	.61873	6.6294	593.7	1.4043
#1	.00211	.46828	.00204	-.0148	.00361
#2	.00192	.47239	.00186	.0241	.00368
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00383**	**.01263**	W **.03474**	**.38606**	**.02624**
Stddev	.00046	.00002	.00257	.00049	.00026
%RSD	12.017	.12659	7.3920	.12745	.98076
#1	.00415	.01264	.03292	.38571	.02606
#2	.00350	.01262	.03655	.38641	.02642
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
Value			.05000		
Range			-30.000%		

Sample Name: CCVL-7028546 Acquired: 6/13/2022 22:51:57 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18696**	**.00303**	**.01004**	**.89680**	**.00933**
Stddev	.00003	.00006	.00017	.00130	.00059
%RSD	.01811	1.9271	1.7385	.14514	6.3359
#1	.18694	.00307	.01016	.89588	.00891
#2	.18698	.00299	.00991	.89772	.00975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00916**	**.17681**	**.01631**	**.02475**
Stddev	.00	.00113	.00055	.00014	.00139
%RSD	.0015	12.352	.30992	.87134	5.6223
#1	25.00	.00996	.17719	.01621	.02573
#2	25.00	.00836	.17642	.01641	.02377
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	W **.34642**	**.00831**	**.00495**	F **.9937**	**.00431**
Stddev	.02206	.00018	.00003	.0044	.00018
%RSD	6.3681	2.1439	.64410	.4466	4.1648
#1	.33082	.00819	.00497	.9969	.00419
#2	.36202	.00844	.00493	.9906	.00444
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	.50000			.0060	
Range	-30.000%			50.00%	

Sample Name: CCVL-7028546 Acquired: 6/13/2022 22:51:57 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01996**	**.00438**	**.00759**	F **.9997**
Stddev	.00015	.00018	.00037	.0006
%RSD	.75366	4.1644	4.8901	.0626
#1	.02007	.00425	.00785	.9993
#2	.01986	.00451	.00732	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3412.0**	**2515.1**	**24370.**	**3418.7**
Stddev	1.8	3.7	5.	31.1
%RSD	.05170	.14751	.02211	.90933
#1	3410.7	2512.5	24366.	3440.7
#2	3413.2	2517.8	24374.	3396.7

Sample Name: 480-198724-A-28-A Acquired: 6/13/2022 22:55:52 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.01385**	**-.00028**	**.44483**	**.01308**
Stddev	.00006	.02722	.00235	.00228	.00002
%RSD	32.400	196.50	832.05	.51177	.17508
#1	-.00015	-.00540	.00138	.44322	.01307
#2	-.00024	.03310	-.00194	.44644	.01310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**52.255**	**.00021**	**-.0362**	**.00014**
Stddev	.00001	.174	.00010	.0113	.00002
%RSD	16.897	.33357	49.745	31.32	13.817
#1	.00006	52.378	.00028	-.0282	.00015
#2	.00005	52.132	.00013	-.0442	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00621**	**.01097**	**.99751**	**.00680**
Stddev	.00007	.00052	.00084	.01515	.00044
%RSD	71.987	8.3073	7.6578	1.5188	6.5304
#1	-.00004	.00657	.01038	1.0082	.00711
#2	-.00014	.00585	.01156	.98680	.00648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-28-A Acquired: 6/13/2022 22:55:52 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.637**	**.02480**	**.10963**	**81.022**	**.00050**
Stddev	.050	.00010	.00026	.011	.00003
%RSD	.20196	.40289	.23857	.01326	6.2037
#1	24.601	.02487	.10982	81.030	.00048
#2	24.672	.02473	.10945	81.014	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00078**	F **90.330**	**-.00169**	**.00066**
Stddev	.00	.00015	.280	.00089	.00252
%RSD	.0025	18.980	.30958	52.418	380.89
#1	25.02	.00068	90.133	-.00106	.00244
#2	25.02	.00088	90.528	-.00232	-.00112
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8013**	**-.00010**	**1.4726**	**.9939**	**.00001**
Stddev	.0313	.00030	.0064	.0018	.00013
%RSD	.65098	285.15	.43328	.1784	1740.3
#1	4.8234	.00011	1.4771	.9927	-.00009
#2	4.7792	-.00031	1.4680	.9952	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-28-A Acquired: 6/13/2022 22:55:52 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00132**	**-.00042**	**.00039**	**.9987**
Stddev	.00049	.00008	.00013	.0005
%RSD	36.873	19.365	32.629	.0459
#1	.00097	-.00037	.00030	.9984
#2	.00166	-.00048	.00048	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3037.1**	**2393.2**	**22754.**	**3383.6**
Stddev	1.9	.8	58.	1.2
%RSD	.06362	.03326	.25665	.03636
#1	3035.7	2393.7	22795.	3382.7
#2	3038.4	2392.6	22713.	3384.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.122%	99.221%	96.664%	97.868%
Range				

Sample Name: 480-198724-A-29-A Acquired: 6/13/2022 22:59:42 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.16885**	**.00098**	**.45393**	**.16895**
Stddev	.00026	.01543	.00056	.00054	.00020
%RSD	105.46	9.1366	56.681	.11969	.11581
#1	-.00006	.15794	.00059	.45355	.16882
#2	-.00043	.17976	.00137	.45432	.16909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**18.853**	**.00018**	**-.0116**	**.00024**
Stddev	.00002	.051	.00007	.0021	.00013
%RSD	490.96	.27095	35.747	18.02	54.878
#1	-.00002	18.890	.00014	-.0101	.00014
#2	.00001	18.817	.00023	-.0131	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**.00540**	**.09835**	**.84882**	**.00527**
Stddev	.00013	.00050	.00028	.02804	.00179
%RSD	21.035	9.3457	.28026	3.3031	34.004
#1	.00073	.00576	.09815	.82899	.00400
#2	.00054	.00504	.09854	.86864	.00653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-29-A Acquired: 6/13/2022 22:59:42 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.9123**	**.00826**	**.07135**	**72.808**	**.00077**
Stddev	.0002	.00004	.00006	.380	.00010
%RSD	.00280	.50724	.08795	.52174	13.589
#1	7.9122	.00823	.07131	73.076	.00085
#2	7.9125	.00829	.07140	72.539	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00100**	**49.757**	**-.00098**	**.00069**
Stddev	.00	.00102	.013	.00255	.00101
%RSD	.0053	101.59	.02532	261.37	146.60
#1	25.02	.00172	49.748	-.00278	-.00003
#2	25.02	.00028	49.766	.00083	.00140
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.8739**	**-.00043**	**.70490**	**.9889**	**.00437**
Stddev	.0096	.00046	.00358	.0042	.00138
%RSD	.24764	106.99	.50825	.4249	31.623
#1	3.8807	-.00010	.70744	.9860	.00535
#2	3.8671	-.00076	.70237	.9919	.00339
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-29-A Acquired: 6/13/2022 22:59:42 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00103**	**.00090**	**.00103**	**.9988**
Stddev	.00065	.00024	.00004	.0001
%RSD	62.621	26.848	3.7949	.0141
#1	.00057	.00073	.00105	.9989
#2	.00149	.00107	.00100	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3141.5**	**2450.6**	**23500.**	**3405.0**
Stddev	5.4	5.1	28.	2.8
%RSD	.17137	.20731	.12079	.08096
#1	3145.3	2454.2	23520.	3406.9
#2	3137.7	2447.0	23480.	3403.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.324%	101.60%	99.834%	98.487%
Range				

Sample Name: 480-198724-A-30-A Acquired: 6/13/2022 23:03:34 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.03877**	**.00144**	**.45915**	**.01757**
Stddev	.00030	.03121	.00011	.00048	.00003
%RSD	245.06	80.516	7.5370	.10562	.18764
#1	-.00009	.06084	.00152	.45881	.01759
#2	.00033	.01670	.00136	.45949	.01755
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**19.844**	**.00019**	**-.0139**	**.00020**
Stddev	.00004	.051	.00012	.0042	.00004
%RSD	885.28	.25953	61.743	29.97	17.987
#1	-.00002	19.807	.00027	-.0168	.00017
#2	.00003	19.880	.00011	-.0109	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00102**	**.01986**	**.26489**	**.71326**	**.00739**
Stddev	.00006	.00060	.00018	.07500	.00027
%RSD	5.8135	3.0379	.06677	10.514	3.6364
#1	.00098	.02029	.26477	.76629	.00720
#2	.00106	.01943	.26502	.66023	.00758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-30-A Acquired: 6/13/2022 23:03:34 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2128**	**.00307**	**.07698**	**81.933**	**.00164**
Stddev	.0448	.00002	.00046	.109	.00011
%RSD	.48650	.49765	.59508	.13321	6.8985
#1	9.1811	.00306	.07666	81.856	.00172
#2	9.2445	.00308	.07731	82.011	.00156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00082**	**54.922**	**-.00209**	**.00031**
Stddev	.00	.00023	.035	.00122	.00083
%RSD	.0007	27.429	.06331	58.575	266.16
#1	25.01	.00066	54.947	-.00122	-.00027
#2	25.01	.00098	54.898	-.00295	.00090
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.3077**	**-.00014**	**.65745**	**.9917**	**.00063**
Stddev	.0034	.00004	.00224	.0023	.00019
%RSD	.10297	26.944	.34016	.2339	30.849
#1	3.3053	-.00012	.65587	.9901	.00076
#2	3.3102	-.00017	.65904	.9934	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-30-A Acquired: 6/13/2022 23:03:34 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.00077**	**.01264**	**.9990**
Stddev	.00058	.00006	.00025	.0008
%RSD	149.54	7.5857	1.9438	.0798
#1	.00002	.00073	.01281	.9985
#2	-.00080	.00081	.01246	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3137.5**	**2452.2**	**23445.**	**3484.1**
Stddev	4.2	3.4	144.	17.5
%RSD	.13309	.13792	.61243	.50204
#1	3140.5	2454.6	23546.	3496.5
#2	3134.6	2449.8	23343.	3471.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.202%	101.67%	99.597%	100.78%
Range				

Sample Name: 480-198724-A-31-A Acquired: 6/13/2022 23:07:26 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**.01658**	**-.00049**	**.51615**	**.01948**
Stddev	.00018	.00007	.00115	.00062	.00007
%RSD	35.429	.44876	234.18	.12107	.36427
#1	-.00037	.01652	.00032	.51659	.01953
#2	-.00062	.01663	-.00130	.51570	.01943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**22.960**	**.00023**	**.0229**	**.00021**
Stddev	.00010	.064	.00002	.0018	.00007
%RSD	223.50	.27954	9.1903	7.825	32.110
#1	-.00003	22.915	.00024	.0216	.00026
#2	.00011	23.006	.00021	.0242	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00866**	**.00118**	**.79847**	**.00739**
Stddev	.00034	.00052	.00056	.04905	.00084
%RSD	327.60	5.9701	47.492	6.1428	11.320
#1	.00034	.00830	.00158	.83315	.00679
#2	-.00014	.00903	.00079	.76378	.00798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-31-A Acquired: 6/13/2022 23:07:26 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.099**	**.00655**	**.04964**	**62.153**	**.00010**
Stddev	.020	.00000	.00004	.245	.00007
%RSD	.12367	.04658	.08692	.39496	69.808
#1	16.113	.00655	.04967	61.979	.00016
#2	16.085	.00655	.04961	62.326	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00010**	**41.859**	**-.00277**	**.00197**
Stddev	.00	.00078	.050	.00143	.00102
%RSD	.0029	749.07	.11839	51.736	51.590
#1	25.02	-.00045	41.894	-.00378	.00269
#2	25.02	.00065	41.824	-.00176	.00125
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.9984**	**-.00064**	**.79329**	**.9942**	**.00018**
Stddev	.0090	.00030	.00052	.0100	.00018
%RSD	.14977	47.360	.06617	1.005	102.71
#1	6.0048	-.00043	.79366	1.001	.00031
#2	5.9921	-.00086	.79292	.9872	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198724-A-31-A Acquired: 6/13/2022 23:07:26 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00150**	**-.00018**	**.00109**	**.9991**
Stddev	.00126	.00003	.00047	.0005
%RSD	84.173	18.443	43.454	.0516
#1	.00061	-.00016	.00076	.9994
#2	.00240	-.00021	.00143	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3088.2**	**2404.1**	**22904.**	**3356.5**
Stddev	1.8	1.4	21.	25.9
%RSD	.05693	.05766	.08991	.77126
#1	3086.9	2403.2	22889.	3374.8
#2	3089.4	2405.1	22918.	3338.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.689%	99.676%	97.299%	97.085%
Range				

Sample Name: MB 480-629663/1-A Acquired: 6/13/2022 23:11:18 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**-.03251**	**-.00042**	**.00086**	**-.00001**
Stddev	.00035	.02185	.00100	.00016	.00003
%RSD	106.80	67.211	236.24	18.762	468.55
#1	-.00008	-.04796	.00028	.00098	.00001
#2	-.00058	-.01706	-.00113	.00075	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00543**	**-.00012**	**-.0145**	**.00002**
Stddev	.00012	.00104	.00022	.0165	.00004
%RSD	1719.1	19.205	188.62	113.6	247.75
#1	-.00008	.00470	.00004	-.0028	-.00001
#2	.00009	.00617	-.00027	-.0261	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00456**	**-.00890**	**.00682**	**.00203**
Stddev	.00059	.00009	.00015	.04582	.00079
%RSD	185.32	1.9851	1.6779	671.88	39.058
#1	-.00010	.00462	-.00900	.03922	.00260
#2	.00074	.00450	-.00879	-.02558	.00147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629663/1-A Acquired: 6/13/2022 23:11:18 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00176**	**-.00022**	**-.00006**	**.00963**	**.00014**
Stddev	.00321	.00001	.00001	.01150	.00018
%RSD	182.80	3.2039	15.222	119.38	128.81
#1	.00403	-.00022	-.00007	.01776	.00027
#2	-.00051	-.00021	-.00005	.00150	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00001**	**-.00324**	**-.00079**	**-.00121**
Stddev	.00	.00180	.00268	.00028	.00107
%RSD	.0041	13102.	82.797	35.536	88.665
#1	25.02	-.00126	-.00134	-.00059	-.00197
#2	25.02	.00129	-.00513	-.00099	-.00045
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.07600**	**.00006**	**.00015**	**.9919**	**-.00017**
Stddev	.00491	.00027	.00010	.0086	.00039
%RSD	6.4554	483.02	67.985	.8624	232.36
#1	-.07253	.00025	.00008	.9858	-.00044
#2	-.07947	-.00013	.00022	.9979	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629663/1-A Acquired: 6/13/2022 23:11:18 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00012**	**-.00026**	**-.00174**	**.9997**
Stddev	.00055	.00014	.00008	.0009
%RSD	466.15	53.981	4.4434	.0867
#1	-.00027	-.00035	-.00180	1.000
#2	.00051	-.00016	-.00169	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3418.1**	**2508.7**	**24915.**	**3577.8**
Stddev	26.3	17.0	53.	35.1
%RSD	.76994	.67879	.21118	.97979
#1	3436.8	2520.7	24878.	3553.0
#2	3399.5	2496.6	24952.	3602.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	104.81%	104.01%	105.84%	103.49%
Range				

Sample Name: LCS 480-629663/2-A Acquired: 6/13/2022 23:15:13 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04314**	**9.1244**	**.18403**	**.19473**	**.19392**
Stddev	.00039	.0999	.00200	.00020	.00048
%RSD	.89703	1.0949	1.0849	.10189	.24763
#1	.04342	9.1950	.18544	.19459	.19426
#2	.04287	9.0538	.18262	.19488	.19358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19247**	**8.8115**	**.17924**	**-.0770**	**.17680**
Stddev	.00136	.0839	.00008	.0206	.00007
%RSD	.70647	.95252	.04394	26.77	.03822
#1	.19343	8.8709	.17919	-.0916	.17685
#2	.19151	8.7522	.17930	-.0624	.17675
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19196**	**.18579**	**8.8833**	**9.2624**	**.18352**
Stddev	.00071	.00047	.0678	.1656	.00260
%RSD	.37205	.25081	.76379	1.7882	1.4186
#1	.19247	.18612	8.9313	9.3796	.18536
#2	.19146	.18546	8.8354	9.1453	.18168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629663/2-A Acquired: 6/13/2022 23:15:13 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2343**	**.18950**	**.19793**	**9.0111**	**.17515**
Stddev	.0355	.00013	.00001	.0735	.00067
%RSD	.38455	.06651	.00616	.81525	.38501
#1	9.2594	.18959	.19794	9.0630	.17563
#2	9.2091	.18941	.19792	8.9591	.17467
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.77**	**.17552**	**8.8273**	**.18537**	**.18907**
Stddev	.00	.00036	.0101	.00024	.00031
%RSD	.0050	.20501	.11484	.12846	.16188
#1	24.77	.17527	8.8345	.18520	.18929
#2	24.77	.17577	8.8202	.18554	.18886
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.5626**	**.21302**	**.19056**	**.9991**	**.17847**
Stddev	.0764	.00030	.00249	.0019	.00108
%RSD	.89220	.14229	1.3043	.1872	.60723
#1	8.6167	.21280	.19232	.9978	.17923
#2	8.5086	.21323	.18880	1.000	.17770
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629663/2-A Acquired: 6/13/2022 23:15:13 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19015**	**.17308**	**.17169**	**1.001**
Stddev	.00116	.00105	.00047	.000
%RSD	.61123	.60515	.27402	.0033
#1	.19097	.17382	.17202	1.001
#2	.18933	.17234	.17135	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3291.1**	**2519.2**	**24688.**	**3588.5**
Stddev	.6	3.0	56.	30.6
%RSD	.01897	.11883	.22485	.85380
#1	3290.7	2517.1	24649.	3566.8
#2	3291.6	2521.3	24728.	3610.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.91%	104.45%	104.88%	103.79%
Range				

Sample Name: 480-198840-C-1-B Acquired: 6/13/2022 23:18:57 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **-.00074**	k **.00180**	k **-.00071**	**.03371**	**.02803**
Stddev	.00005	.01765	.00177	.00013	.00006
%RSD	7.3593	979.88	249.28	.38306	.20847
#1	k -.00070	k -.01068	k -.00196	.03362	.02807
#2	k -.00077	k .01428	k .00054	.03380	.02799
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**42.132**	k **.00054**	**-.0406**	**-.00014**
Stddev	.00010	.214	.00003	.0164	.00008
%RSD	133.05	.50735	5.5832	40.49	58.615
#1	.00015	42.283	k .00052	-.0290	-.00020
#2	.00000	41.981	k .00057	-.0522	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **.00114**	**.00620**	**40.924**	**3.4274**	**.02821**
Stddev	.00003	.00050	.012	.0147	.00160
%RSD	2.7690	8.0046	.02856	.42731	5.6869
#1	k .00111	.00585	40.915	3.4377	.02934
#2	k .00116	.00655	40.932	3.4170	.02707
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-1-B Acquired: 6/13/2022 23:18:57 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **40.087**	k **6.0345**	**-.00062**	**15.534**	k **.00210**
Stddev	.008	.0304	.00009	.067	.00029
%RSD	.01895	.50431	14.189	.43441	13.886
#1	k 40.082	k 6.0130	-.00068	15.582	k .00190
#2	k 40.092	k 6.0561	-.00055	15.487	k .00231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	k **.00347**	**60.303**	k **-.00091**	k **.00101**
Stddev	.00	.00125	.096	.00072	.00023
%RSD	.0011	36.054	.15878	78.873	22.834
#1	25.05	k .00436	60.370	k -.00142	k .00085
#2	25.05	k .00259	60.235	k -.00040	k .00117
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.9304**	**.00053**	**.20839**	**1.013**	**.00016**
Stddev	.0494	.00000	.00117	.003	.00027
%RSD	.62281	.26696	.56299	.2561	162.36
#1	7.9653	.00053	.20922	1.015	-.00002
#2	7.8955	.00053	.20756	1.011	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-1-B Acquired: 6/13/2022 23:18:57 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	k **.00247**	k **.00114**	k **.00252**	**.9977**
Stddev	.00204	.00020	.00011	.0001
%RSD	82.652	17.526	4.5283	.0138
#1	k .00103	k .00129	k .00244	.9976
#2	k .00391	k .00100	k .00260	.9978
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3113.0**	**2432.8**	**23778.**	**3491.2**
Stddev	.2	.2	28.	1.4
%RSD	.00695	.00783	.11571	.04119
#1	3112.8	2432.7	23758.	3492.2
#2	3113.1	2432.9	23797.	3490.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.449%	100.86%	101.01%	100.98%
Range				

Sample Name: 480-198840-C-2-D Acquired: 6/13/2022 23:22:53 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.01697**	**.00040**	**.00155**	**.00003**
Stddev	.00043	.01188	.00048	.00005	.00003
%RSD	153.03	70.028	119.81	3.0884	81.482
#1	-.00059	.02537	.00006	.00151	.00001
#2	.00002	.00857	.00074	.00158	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.09375**	**-.00005**	**-.0142**	**-.00004**
Stddev	.00003	.00138	.00015	.0030	.00010
%RSD	55.251	1.4687	291.72	20.76	232.69
#1	-.00004	.09473	-.00016	-.0163	.00003
#2	-.00009	.09278	.00006	-.0121	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00558**	**-.00784**	**.03510**	**.00235**
Stddev	.00005	.00003	.00394	.02307	.00057
%RSD	233.84	.52534	50.297	65.711	24.280
#1	-.00001	.00556	-.00505	.05141	.00195
#2	.00005	.00561	-.01062	.01879	.00275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-2-D Acquired: 6/13/2022 23:22:53 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**-.00011**	**-.00018**	**.00993**	**.00024**
Stddev	.00845	.00004	.00002	.00247	.00040
%RSD	2319.8	35.680	12.298	24.829	165.44
#1	-.00561	-.00008	-.00020	.00819	.00052
#2	.00634	-.00014	-.00017	.01167	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00020**	**-.00607**	**-.00132**	**.00122**
Stddev	.00	.00006	.00044	.00026	.00329
%RSD	.0022	32.412	7.2543	19.717	269.48
#1	25.02	.00024	-.00638	-.00114	-.00111
#2	25.02	.00015	-.00576	-.00151	.00355
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02981**	**.00001**	**.00020**	**.9981**	**-.00012**
Stddev	.00955	.00009	.00005	.0016	.00008
%RSD	32.019	657.89	22.417	.1563	67.584
#1	.02306	.00008	.00017	.9992	-.00006
#2	.03656	-.00005	.00023	.9970	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-2-D Acquired: 6/13/2022 23:22:53 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00088**	**-.00035**	**-.00108**	**.9985**
Stddev	.00052	.00039	.00014	.0012
%RSD	59.737	112.95	13.301	.1237
#1	-.00051	-.00007	-.00118	.9976
#2	-.00125	-.00063	-.00098	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3401.4**	**2510.2**	**24041.**	**3374.3**
Stddev	74.0	50.8	100.	5.7
%RSD	2.1762	2.0219	.41542	.17036
#1	3349.0	2474.3	24112.	3370.2
#2	3453.7	2546.1	23970.	3378.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	104.29%	104.07%	102.13%	97.599%
Range				

Sample Name: 480-198840-C-3-B Acquired: 6/13/2022 23:26:49 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**-.00665**	**-.00150**	**.00631**	**.00617**
Stddev	.00014	.00537	.00087	.00016	.00003
%RSD	13039.	80.825	58.210	2.4688	.46429
#1	-.00010	-.00285	-.00212	.00620	.00619
#2	.00010	-.01044	-.00088	.00642	.00615
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**2.8775**	**.00017**	**-.0573**	**.00008**
Stddev	.00001	.0221	.00006	.0556	.00012
%RSD	9.8255	.76783	32.886	97.04	149.52
#1	.00006	2.8931	.00013	-.0966	-.00000
#2	.00005	2.8619	.00021	-.0180	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00544**	**.01816**	**1.0715**	**.01262**
Stddev	.00011	.00004	.00079	.0050	.00051
%RSD	2036.1	.68321	4.3283	.46738	4.0374
#1	-.00007	.00542	.01871	1.0679	.01298
#2	.00008	.00547	.01760	1.0750	.01226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-3-B Acquired: 6/13/2022 23:26:49 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.9153**	**.00892**	**-.00028**	**13.191**	**.00222**
Stddev	.0285	.00007	.00005	.085	.00016
%RSD	.72799	.74205	19.064	.64211	7.1926
#1	3.9354	.00896	-.00025	13.251	.00210
#2	3.8951	.00887	-.00032	13.131	.00233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00138**	**5.8226**	**-.00059**	**.00219**
Stddev	.00	.00024	.0176	.00026	.00129
%RSD	.0025	17.467	.30136	44.792	59.074
#1	25.02	.00155	5.8102	-.00040	.00310
#2	25.02	.00121	5.8350	-.00078	.00127
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9775**	**-.00018**	**.01269**	**.9966**	**.00007**
Stddev	.0927	.00009	.00014	.0015	.00004
%RSD	.92875	51.716	1.1352	.1514	58.982
#1	10.043	-.00025	.01259	.9956	.00010
#2	9.9120	-.00012	.01279	.9977	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-3-B Acquired: 6/13/2022 23:26:49 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00114**	**-.00042**	**.00470**	**.9989**
Stddev	.00073	.00022	.00013	.0003
%RSD	63.920	53.724	2.6953	.0261
#1	.00062	-.00026	.00461	.9987
#2	.00165	-.00058	.00479	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3353.2**	**2521.8**	**24682.**	**3597.9**
Stddev	7.3	11.0	18.	10.1
%RSD	.21688	.43589	.07400	.27944
#1	3358.3	2529.6	24695.	3590.8
#2	3348.0	2514.0	24669.	3605.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.81%	104.55%	104.85%	104.07%
Range				

Sample Name: CCV-7018483 Acquired: 6/13/2022 23:30:43 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.91926**	**46.570**	**.96374**	**1.0012**	**.97023**
Stddev	.00356	.121	.00029	.0003	.00526
%RSD	.38768	.25955	.02985	.02816	.54251
#1	.92178	46.484	.96394	1.0014	.96651
#2	.91674	46.655	.96354	1.0010	.97395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97336**	**46.919**	**.95502**	**.9795**	**.94303**
Stddev	.00645	.261	.00070	.0051	.00062
%RSD	.66254	.55716	.07358	.5257	.06577
#1	.96880	46.735	.95552	.9832	.94259
#2	.97792	47.104	.95452	.9759	.94347
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0257**	**.93998**	**46.506**	**48.937**	**.94600**
Stddev	.0031	.00476	.199	.416	.00257
%RSD	.30347	.50685	.42758	.85032	.27132
#1	1.0279	.94335	46.365	48.643	.94419
#2	1.0235	.93661	46.646	49.232	.94782
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/13/2022 23:30:43 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.293**	**.99931**	**1.0082**	**47.892**	**.96254**
Stddev	.226	.00377	.0004	.302	.00003
%RSD	.45841	.37703	.04156	.63039	.00312
#1	49.453	1.0020	1.0085	47.678	.96252
#2	49.133	.99665	1.0079	48.105	.96256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.85**	**.94214**	**23.208**	**.94348**	**.98299**
Stddev	.02	.00040	.027	.00214	.00055
%RSD	.0630	.04261	.11759	.22727	.05623
#1	36.86	.94243	23.227	.94500	.98260
#2	36.83	.94186	23.188	.94197	.98338
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.1251**	**.93463**	**.94533**	**1.467**	**.94569**
Stddev	.0379	.00067	.00628	.011	.00627
%RSD	.41492	.07139	.66449	.7220	.66347
#1	9.0983	.93416	.94089	1.459	.95012
#2	9.1518	.93511	.94977	1.474	.94125
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/13/2022 23:30:43 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99925**	**.93881**	**.98470**	**1.502**
Stddev	.00115	.00577	.00548	.005
%RSD	.11521	.61502	.55608	.3188
#1	1.0001	.94289	.98858	1.499
#2	.99844	.93473	.98083	1.505
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2931.2**	**2404.3**	**22585.**	**3323.6**
Stddev	3.9	.8	109.	33.5
%RSD	.13385	.03512	.48360	1.0076
#1	2934.0	2404.9	22508.	3347.3
#2	2928.4	2403.7	22663.	3299.9

Sample Name: CCB-7026764 Acquired: 6/13/2022 23:34:24 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.01227**	**-.00184**	**.00056**	**.00005**
Stddev	.00072	.01253	.00003	.00047	.00002
%RSD	1301.1	102.12	1.4188	84.168	36.004
#1	-.00045	-.02113	-.00182	.00090	.00004
#2	.00056	-.00341	-.00186	.00023	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00403**	**.00024**	**-.0029**	**.00021**
Stddev	.00011	.00053	.00032	.0579	.00023
%RSD	227.63	13.191	135.14	2018.	110.04
#1	-.00013	-.00440	.00047	-.0438	.00038
#2	.00003	-.00365	.00001	.0381	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.00441**	**-.01488**	**.02509**	**.00152**
Stddev	.00014	.00082	.00058	.01211	.00073
%RSD	58.067	18.508	3.8956	48.275	48.277
#1	-.00034	.00383	-.01447	.01653	.00204
#2	-.00014	.00499	-.01529	.03366	.00100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/13/2022 23:34:24 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00126**	**-.00010**	**.00036**	**-.00308**	**.00057**
Stddev	.00163	.00007	.00058	.00092	.00039
%RSD	129.99	66.982	159.52	29.712	68.276
#1	.00010	-.00005	.00077	-.00373	.00084
#2	.00241	-.00015	-.00005	-.00244	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00001**	**-.00901**	**-.00280**	**-.00078**
Stddev	.00	.00030	.00841	.00099	.00305
%RSD	.0179	2890.6	93.288	35.482	392.11
#1	25.02	-.00020	-.00307	-.00210	-.00293
#2	25.01	.00023	-.01496	-.00350	.00138
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.10042**	**.00009**	**.00002**	**.9971**	**-.00029**
Stddev	.01304	.00018	.00011	.0012	.00040
%RSD	12.990	200.59	609.15	.1251	137.30
#1	-.09119	.00022	.00009	.9962	-.00001
#2	-.10964	-.00004	-.00006	.9980	-.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/13/2022 23:34:24 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00223**	**-.00012**	**-.00235**	**.9985**
Stddev	.00061	.00035	.00035	.0006
%RSD	27.368	278.93	14.670	.0640
#1	.00267	-.00037	-.00260	.9990
#2	.00180	.00012	-.00211	.9981
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3367.2**	**2472.2**	**23750.**	**3335.9**
Stddev	4.9	4.5	26.	30.0
%RSD	.14488	.18092	.11121	.89835
#1	3363.7	2469.1	23769.	3357.1
#2	3370.6	2475.4	23732.	3314.8

Sample Name: CCVL-7028546 Acquired: 6/13/2022 23:38:21 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00484**	**.18866**	**.01221**	**.01890**	**.00208**
Stddev	.00002	.00564	.00023	.00024	.00005
%RSD	.44294	2.9915	1.8526	1.2618	2.2065
#1	.00483	.19265	.01237	.01907	.00211
#2	.00486	.18467	.01205	.01873	.00204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00189**	**.45746**	**.00198**	**-.0546**	**.00354**
Stddev	.00007	.00364	.00003	.0061	.00006
%RSD	3.7103	.79544	1.4012	11.23	1.6787
#1	.00194	.46004	.00196	-.0589	.00358
#2	.00184	.45489	.00200	-.0502	.00349
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00410**	W **.01468**	**.03638**	**.44507**	**.02698**
Stddev	.00041	.00054	.00158	.00376	.00104
%RSD	9.9697	3.6485	4.3432	.84530	3.8467
#1	.00439	.01430	.03526	.44241	.02771
#2	.00381	.01506	.03749	.44773	.02624
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value		.01000			
Range		30.000%			

Sample Name: CCVL-7028546 Acquired: 6/13/2022 23:38:21 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18844**	**.00307**	**.01005**	**.87692**	**.00916**
Stddev	.00088	.00002	.00021	.00005	.00019
%RSD	.46896	.54674	2.0560	.00582	2.0753
#1	.18907	.00306	.00990	.87688	.00903
#2	.18782	.00308	.01019	.87696	.00930
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00859**	**.16219**	**.01792**	**.02450**
Stddev	.00	.00002	.00011	.00202	.00233
%RSD	.0011	.25856	.06753	11.253	9.5236
#1	25.00	.00858	.16212	.01649	.02285
#2	25.00	.00861	.16227	.01934	.02615
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.35177**	**.00794**	**.00490**	F **.9977**	**.00450**
Stddev	.01274	.00029	.00008	.0006	.00025
%RSD	3.6219	3.6146	1.6590	.0602	5.5268
#1	.36078	.00774	.00496	.9982	.00432
#2	.34276	.00814	.00484	.9973	.00467
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/13/2022 23:38:21 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01919**	**.00418**	**.00793**	F **.9998**
Stddev	.00101	.00046	.00008	.0008
%RSD	5.2848	10.975	.99580	.0821
#1	.01990	.00385	.00798	1.000
#2	.01847	.00450	.00787	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3441.2**	**2540.0**	**24528.**	**3475.0**
Stddev	.2	2.0	22.	12.1
%RSD	.00569	.07678	.08769	.34912
#1	3441.1	2538.6	24513.	3466.4
#2	3441.3	2541.3	24544.	3483.6

Sample Name: 480-198840-C-3-Bsd@5 Acquired: 6/13/2022 23:42:17 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**-.01043**	**-.00051**	**.00117**	**.00139**
Stddev	.00047	.01304	.00021	.00006	.00003
%RSD	78.033	124.98	40.215	5.4765	2.3297
#1	-.00093	-.01965	-.00066	.00112	.00137
#2	-.00027	-.00121	-.00037	.00121	.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.58620**	**-.00001**	**-.0485**	**-.00005**
Stddev	.00000	.00028	.00002	.0118	.00006
%RSD	3.5785	.04730	275.17	24.37	131.18
#1	.00002	.58639	-.00002	-.0569	-.00000
#2	.00003	.58600	.00001	-.0402	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.00478**	**-.00579**	**.21893**	**.00288**
Stddev	.00034	.00153	.00262	.00551	.00209
%RSD	132.81	32.011	45.207	2.5155	72.643
#1	-.00049	.00587	-.00394	.21504	.00436
#2	-.00002	.00370	-.00765	.22283	.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-3-Bsd@5 Acquired: 6/13/2022 23:42:17 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.79150**	**.00170**	**-.00038**	**2.6236**	**.00022**
Stddev	.00085	.00006	.00012	.0074	.00003
%RSD	.10797	3.6433	32.025	.28195	15.073
#1	.79211	.00166	-.00029	2.6289	.00024
#2	.79090	.00175	-.00047	2.6184	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00092**	**1.1278**	**-.00167**	**-.00046**
Stddev	.00	.00069	.0035	.00011	.00010
%RSD	.0010	74.483	.30695	6.3159	21.088
#1	25.02	.00044	1.1253	-.00160	-.00039
#2	25.02	.00141	1.1302	-.00175	-.00052
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9428**	**-.00038**	**.00265**	**.9916**	**-.00017**
Stddev	.0007	.00002	.00007	.0064	.00011
%RSD	.03377	4.2766	2.4551	.6470	64.831
#1	1.9433	-.00039	.00261	.9871	-.00009
#2	1.9423	-.00037	.00270	.9962	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-3-Bsd@5 Acquired: 6/13/2022 23:42:17 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00027**	**-.00015**	**-.00079**	**.9985**
Stddev	.00003	.00016	.00001	.0000
%RSD	10.797	110.33	1.3503	.0017
#1	.00029	-.00026	-.00078	.9985
#2	.00025	-.00003	-.00080	.9985
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3432.6**	**2536.4**	**24498.**	**3494.4**
Stddev	2.6	1.1	98.	7.7
%RSD	.07720	.04339	.39840	.22130
#1	3430.7	2535.6	24567.	3499.9
#2	3434.5	2537.1	24429.	3488.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	105.25%	105.16%	104.07%	101.07%
Range				

Sample Name: 480-198840-C-3-BPDS Acquired: 6/13/2022 23:46:12 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04697**	**9.5997**	**.19812**	**.20836**	**.20997**
Stddev	.00031	.0370	.00390	.00013	.00014
%RSD	.66101	.38530	1.9687	.06108	.06836
#1	.04719	9.6259	.20088	.20845	.20987
#2	.04675	9.5736	.19537	.20827	.21007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20866**	**12.389**	**.19453**	**-.0228**	**.19473**
Stddev	.00150	.088	.00044	.0234	.00018
%RSD	.71894	.71252	.22383	102.6	.09223
#1	.20973	12.451	.19422	-.0063	.19486
#2	.20760	12.326	.19484	-.0394	.19460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21205**	**.20308**	**9.7319**	**10.629**	**.20050**
Stddev	.00008	.00093	.0536	.076	.00104
%RSD	.03837	.45932	.55064	.71579	.51720
#1	.21211	.20374	9.7698	10.682	.20124
#2	.21199	.20243	9.6940	10.575	.19977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-3-BPDS Acquired: 6/13/2022 23:46:12 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.180**	**.21992**	**.21176**	**22.478**	**.19530**
Stddev	.016	.00034	.00004	.117	.00031
%RSD	.11417	.15647	.01787	.51969	.15840
#1	14.169	.21967	.21179	22.561	.19508
#2	14.192	.22016	.21173	22.395	.19552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.74**	**.19400**	**15.046**	**.20314**	**.19673**
Stddev	.00	.00014	.011	.00042	.00048
%RSD	.0064	.07152	.07426	.20831	.24206
#1	24.74	.19390	15.038	.20344	.19639
#2	24.74	.19410	15.054	.20284	.19706
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.207**	**.18781**	**.20958**	**.9960**	**.19616**
Stddev	.158	.00110	.00111	.0038	.00020
%RSD	.82008	.58624	.52795	.3771	.10255
#1	19.318	.18703	.21037	.9986	.19601
#2	19.096	.18859	.20880	.9933	.19630
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-3-BPDS Acquired: 6/13/2022 23:46:12 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20951**	**.19233**	**.20255**	**1.001**
Stddev	.00068	.00030	.00089	.000
%RSD	.32391	.15777	.43780	.0033
#1	.20903	.19255	.20192	1.001
#2	.20999	.19212	.20318	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3193.1**	**2487.3**	**23848.**	**3490.0**
Stddev	11.4	10.8	126.	25.0
%RSD	.35802	.43275	.52751	.71669
#1	3201.2	2494.9	23937.	3472.3
#2	3185.0	2479.7	23759.	3507.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.906%	103.12%	101.31%	100.95%
Range				

Sample Name: 480-198840-C-3-C MS Acquired: 6/13/2022 23:49:54 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04393**	**9.0203**	**.18471**	**.19759**	**.19822**
Stddev	.00062	.0282	.00069	.00010	.00032
%RSD	1.4218	.31235	.37102	.04821	.16393
#1	.04437	9.0402	.18422	.19753	.19799
#2	.04349	9.0004	.18519	.19766	.19845
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19235**	**11.707**	**.17917**	**-.0430**	**.17930**
Stddev	.00111	.058	.00006	.0390	.00016
%RSD	.57899	.49187	.03428	90.62	.08785
#1	.19313	11.748	.17912	-.0706	.17918
#2	.19156	11.667	.17921	-.0155	.17941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19344**	**.18552**	**8.9961**	**10.160**	**.19136**
Stddev	.00011	.00001	.0542	.015	.00083
%RSD	.05670	.00790	.60251	.14544	.43338
#1	.19351	.18551	9.0345	10.170	.19194
#2	.19336	.18553	8.9578	10.149	.19077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-3-C MS Acquired: 6/13/2022 23:49:54 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.342**	**.19902**	**.19566**	**22.140**	**.17981**
Stddev	.049	.00017	.00005	.093	.00078
%RSD	.36946	.08786	.02464	.42119	.43286
#1	13.307	.19889	.19569	22.206	.18036
#2	13.377	.19914	.19562	22.074	.17926
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.76**	**.17978**	**14.338**	**.18488**	**.18535**
Stddev	.00	.00055	.001	.00114	.00169
%RSD	.0002	.30317	.00716	.61838	.90998
#1	24.76	.18016	14.337	.18407	.18654
#2	24.76	.17939	14.338	.18569	.18416
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.591**	**.21713**	**.19746**	**.9959**	**.18158**
Stddev	.117	.00027	.00126	.0095	.00076
%RSD	.62797	.12593	.63635	.9542	.42116
#1	18.673	.21732	.19834	1.003	.18104
#2	18.508	.21694	.19657	.9892	.18212
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-3-C MS Acquired: 6/13/2022 23:49:54 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.18974**	**.17638**	**.18500**	**1.000**
Stddev	.00000	.00096	.00143	.000
%RSD	.00189	.54268	.77347	.0280
#1	.18974	.17570	.18399	.9998
#2	.18975	.17705	.18601	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3155.6**	**2452.3**	**23652.**	**3425.7**
Stddev	6.7	6.5	9.	17.6
%RSD	.21275	.26454	.03612	.51291
#1	3160.3	2456.9	23658.	3413.3
#2	3150.8	2447.7	23646.	3438.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.756%	101.67%	100.48%	99.087%
Range				

Sample Name: 480-198840-C-3-D MSD Acquired: 6/13/2022 23:53:39 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04454**	**8.7732**	**.17698**	**.19225**	**.19377**
Stddev	.00014	.0328	.00004	.00079	.00085
%RSD	.31452	.37352	.02096	.40992	.44079
#1	.04444	8.7964	.17700	.19170	.19317
#2	.04464	8.7501	.17695	.19281	.19437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18687**	**11.311**	**.17392**	**-.0359**	**.17352**
Stddev	.00015	.000	.00031	.0231	.00014
%RSD	.07818	.00241	.17673	64.41	.08296
#1	.18677	11.312	.17370	-.0196	.17362
#2	.18698	11.311	.17413	-.0523	.17342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18647**	**.18214**	**8.7100**	**9.9464**	**.18751**
Stddev	.00101	.00020	.0165	.0770	.00175
%RSD	.53943	.10840	.18906	.77416	.93390
#1	.18576	.18200	8.7216	9.8919	.18874
#2	.18719	.18228	8.6984	10.001	.18627
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-3-D MSD Acquired: 6/13/2022 23:53:39 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.857**	**.19246**	**.19018**	**21.468**	**.17392**
Stddev	.064	.00070	.00000	.031	.00044
%RSD	.50020	.36213	.00221	.14230	.25564
#1	12.812	.19197	.19018	21.446	.17424
#2	12.903	.19295	.19017	21.489	.17361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.77**	**.17249**	**14.086**	**.18020**	**.17829**
Stddev	.00	.00019	.030	.00266	.00132
%RSD	.0104	.11196	.21497	1.4786	.73838
#1	24.77	.17262	14.064	.17832	.17922
#2	24.77	.17235	14.107	.18209	.17736
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.043**	**.21107**	**.19332**	**.9943**	**.17584**
Stddev	.044	.00002	.00040	.0005	.00115
%RSD	.24400	.00897	.20693	.0547	.65350
#1	18.075	.21105	.19303	.9940	.17503
#2	18.012	.21108	.19360	.9947	.17666
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-3-D MSD Acquired: 6/13/2022 23:53:39 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.18311**	**.17069**	**.18475**	**.9996**
Stddev	.00004	.00148	.00069	.0002
%RSD	.02437	.86761	.37171	.0216
#1	.18314	.16964	.18427	.9997
#2	.18308	.17173	.18524	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3212.4**	**2494.8**	**24085.**	**3510.0**
Stddev	9.4	4.7	99.	4.9
%RSD	.29271	.18954	.41096	.13862
#1	3205.8	2491.4	24155.	3506.5
#2	3219.1	2498.1	24015.	3513.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.498%	103.43%	102.32%	101.52%
Range				

Sample Name: 480-198840-C-4-B Acquired: 6/13/2022 23:57:22 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**.01857**	**-.00092**	**.00488**	**.00887**
Stddev	.00029	.01244	.00117	.00024	.00000
%RSD	43.812	67.016	127.07	4.9312	.01465
#1	-.00046	.02736	-.00175	.00471	.00887
#2	-.00088	.00977	-.00009	.00505	.00887
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**4.5847**	**.00029**	**-.0412**	**.00015**
Stddev	.00020	.0200	.00011	.0346	.00009
%RSD	208.15	.43723	39.548	83.89	61.015
#1	-.00004	4.5989	.00021	-.0657	.00022
#2	.00023	4.5705	.00037	-.0168	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00072**	**.00607**	**-.00154**	**1.4678**	**.00383**
Stddev	.00036	.00023	.00108	.0424	.00147
%RSD	50.522	3.7995	70.202	2.8903	38.225
#1	-.00046	.00623	-.00077	1.4978	.00487
#2	-.00097	.00591	-.00230	1.4378	.00280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-4-B Acquired: 6/13/2022 23:57:22 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8032**	**.29947**	**-.00021**	**7.7416**	**.01789**
Stddev	.0075	.00003	.00022	.0176	.00003
%RSD	.15650	.00936	106.40	.22786	.19104
#1	4.7979	.29945	-.00005	7.7541	.01791
#2	4.8085	.29949	-.00036	7.7291	.01786
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00142**	**1.8176**	**-.00154**	**-.00033**
Stddev	.00	.00071	.0051	.00020	.00145
%RSD	.0035	49.981	.27941	12.720	441.40
#1	25.02	.00092	1.8140	-.00168	.00070
#2	25.01	.00192	1.8212	-.00140	-.00135
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.2238**	**-.00055**	**.02419**	**.9915**	**-.00019**
Stddev	.0153	.00007	.00003	.0010	.00007
%RSD	.18629	12.133	.10456	.1040	36.250
#1	8.2347	-.00059	.02420	.9908	-.00024
#2	8.2130	-.00050	.02417	.9923	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-4-B Acquired: 6/13/2022 23:57:22 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00139**	**-.00027**	**.01366**	**.9997**
Stddev	.00015	.00055	.00001	.0003
%RSD	10.601	206.06	.05686	.0344
#1	.00149	.00012	.01367	.9999
#2	.00128	-.00065	.01365	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3349.8**	**2516.1**	**24324.**	**3526.3**
Stddev	2.3	2.1	48.	10.5
%RSD	.06815	.08443	.19536	.29767
#1	3351.4	2517.6	24358.	3533.7
#2	3348.2	2514.6	24290.	3518.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.71%	104.32%	103.33%	101.99%
Range				

Sample Name: 480-198840-C-5-B Acquired: 6/14/2022 0:01:14 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**.41609**	**-.00026**	**.01269**	**.01487**
Stddev	.00051	.01774	.00065	.00033	.00013
%RSD	67.873	4.2632	253.86	2.5654	.86594
#1	-.00039	.40355	.00020	.01292	.01496
#2	-.00111	.42864	-.00072	.01246	.01478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**16.982**	**.00074**	**-.0723**	**.05854**
Stddev	.00006	.026	.00001	.0285	.00016
%RSD	9.4878	.15578	1.4027	39.43	.27285
#1	.00064	16.963	.00075	-.0924	.05865
#2	.00056	17.000	.00073	-.0521	.05843
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00720**	**.15016**	**2.2968**	**.00482**
Stddev	.00031	.00032	.00156	.0184	.00081
%RSD	1517.1	4.4292	1.0393	.79946	16.731
#1	-.00024	.00743	.14905	2.2838	.00539
#2	.00020	.00697	.15126	2.3098	.00425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-5-B Acquired: 6/14/2022 0:01:14 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.621**	**12.215**	**-.00055**	**13.172**	**.04612**
Stddev	.229	.057	.00008	.032	.00005
%RSD	.74809	.46265	14.199	.24338	.11103
#1	30.782	12.255	-.00049	13.149	.04615
#2	30.459	12.175	-.00060	13.194	.04608
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00162**	**65.992**	**-.00352**	**.00175**
Stddev	.00	.00080	.095	.00147	.00166
%RSD	.0025	49.417	.14390	41.752	94.671
#1	25.01	.00105	66.059	-.00456	.00292
#2	25.01	.00218	65.925	-.00248	.00058
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.4512**	**.00007**	**.08441**	**.9976**	**-.00005**
Stddev	.0278	.00072	.00063	.0033	.00008
%RSD	.43094	1001.9	.74302	.3340	172.77
#1	6.4316	.00058	.08397	.9953	-.00010
#2	6.4709	-.00044	.08486	1.0000	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-5-B Acquired: 6/14/2022 0:01:14 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00116**	**.00054**	**.04508**	**.9951**
Stddev	.00083	.00029	.00108	.0002
%RSD	71.902	54.321	2.3975	.0222
#1	-.00174	.00033	.04585	.9949
#2	-.00057	.00074	.04432	.9952
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3228.3**	**2483.0**	**23663.**	**3428.3**
Stddev	8.2	8.1	146.	20.8
%RSD	.25254	.32669	.61516	.60546
#1	3222.5	2477.2	23560.	3443.0
#2	3234.0	2488.7	23766.	3413.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.984%	102.94%	100.53%	99.163%
Range				

Sample Name: 480-198840-C-6-B Acquired: 6/14/2022 0:05:10 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00113**	**.03123**	**.00309**	**.20811**	**.09689**
Stddev	.00023	.00244	.00119	.00024	.00002
%RSD	20.620	7.8122	38.595	.11580	.01905
#1	-.00096	.02950	.00225	.20828	.09688
#2	-.00129	.03295	.00393	.20794	.09690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**27.717**	**.00021**	**-.0820**	**.52403**
Stddev	.00000	.037	.00004	.0243	.00065
%RSD	8.6916	.13385	17.387	29.61	.12324
#1	.00004	27.691	.00024	-.0648	.52449
#2	.00005	27.744	.00018	-.0991	.52357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.00490**	**30.517**	**5.7968**	**.01593**
Stddev	.00016	.00050	.058	.0465	.00008
%RSD	84.970	10.305	.19124	.80228	.51162
#1	-.00008	.00526	30.559	5.7639	.01587
#2	-.00030	.00454	30.476	5.8297	.01599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-6-B Acquired: 6/14/2022 0:05:10 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Na8183
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.747**	**19.516**	**-.00124**	**55.772**	**58.173**
Stddev	.042	.031	.00008	.038	.127
%RSD	.26588	.16093	6.6461	.06769	.21820
#1	15.777	19.538	-.00118	55.746	58.262
#2	15.718	19.493	-.00130	55.799	58.083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Line	231.604 {446}	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}
IS Ref	(In2306)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01937**	**25.00**	**.00491**	**23.811**	**.00378**
Stddev	.00002	.00	.00048	.042	.00163
%RSD	.08261	.0106	9.7042	.17811	43.080
#1	.01939	25.00	.00458	23.841	.00263
#2	.01936	25.00	.00525	23.781	.00493
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837
Line	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00228**	**3.8501**	**.00132**	**.09598**	**1.008**
Stddev	.00152	.0142	.00051	.00024	.008
%RSD	66.563	.36771	39.057	.24995	.7686
#1	.00121	3.8601	.00168	.09581	1.013
#2	.00335	3.8401	.00095	.09615	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Sample Name: 480-198840-C-6-B Acquired: 6/14/2022 0:05:10 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00100**	**.00190**	**.00068**	**.9932**
Stddev	.00006	.00005	.00055	.00003	.0002
%RSD	159.23	4.7841	28.782	3.6688	.0218
#1	-.00000	.00097	.00228	.00070	.9933
#2	.00008	.00104	.00151	.00067	.9930
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3127.2**	**2469.7**	**23790.**	**3511.1**
Stddev	1.9	3.4	23.	16.8
%RSD	.06175	.13721	.09788	.47704
#1	3128.5	2472.1	23806.	3523.0
#2	3125.8	2467.3	23773.	3499.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.885%	102.39%	101.06%	101.56%
Range				

Sample Name: 480-198840-C-7-B Acquired: 6/14/2022 0:09:04 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**.06072**	**-.00116**	**.02417**	**.06877**
Stddev	.00103	.03851	.00012	.00021	.00002
%RSD	196.80	63.423	10.519	.87505	.02377
#1	-.00125	.08796	-.00125	.02432	.06876
#2	.00021	.03349	-.00108	.02402	.06878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**11.402**	**.00022**	**-.0449**	**.02977**
Stddev	.00001	.033	.00009	.0219	.00009
%RSD	2.9071	.28935	39.604	48.66	.30418
#1	.00017	11.425	.00016	-.0604	.02983
#2	.00018	11.379	.00029	-.0295	.02970
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00600**	**.02766**	**3.7204**	**.02938**
Stddev	.00054	.00024	.00269	.0394	.00038
%RSD	1161.9	4.0154	9.7086	1.0599	1.2957
#1	-.00034	.00617	.02956	3.7483	.02965
#2	.00043	.00583	.02577	3.6925	.02911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-7-B Acquired: 6/14/2022 0:09:04 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.492**	**1.6670**	**-.00036**	**34.781**	**.08854**
Stddev	.017	.0016	.00027	.149	.00010
%RSD	.09910	.09409	74.328	.42872	.10807
#1	17.480	1.6659	-.00017	34.887	.08847
#2	17.504	1.6681	-.00055	34.676	.08861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00077**	**13.354**	**-.00138**	**-.00103**
Stddev	.00	.00059	.055	.00194	.00058
%RSD	.0060	76.202	.41176	140.00	56.343
#1	25.02	.00035	13.392	-.00275	-.00145
#2	25.02	.00118	13.315	-.00001	-.00062
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.7513**	**.00019**	**.06030**	**.9976**	**.00061**
Stddev	.0016	.00002	.00018	.0079	.00009
%RSD	.03396	11.805	.30050	.7885	14.472
#1	4.7524	.00021	.06043	.9921	.00055
#2	4.7501	.00017	.06017	1.003	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-7-B Acquired: 6/14/2022 0:09:04 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00045**	**-.00008**	**.06986**	**.9988**
Stddev	.00086	.00013	.00165	.0002
%RSD	192.44	169.27	2.3561	.0250
#1	.00106	.00002	.06870	.9990
#2	-.00016	-.00017	.07103	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3207.1**	**2479.5**	**23745.**	**3493.5**
Stddev	1.5	2.6	61.	2.5
%RSD	.04561	.10342	.25806	.07199
#1	3208.1	2477.6	23788.	3495.3
#2	3206.0	2481.3	23702.	3491.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.334%	102.80%	100.87%	101.05%
Range				

Sample Name: 480-198840-C-8-B Acquired: 6/14/2022 0:12:55 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00087**	**.20897**	**-.00021**	**.00286**	**.00431**
Stddev	.00059	.01095	.00085	.00011	.00006
%RSD	68.133	5.2421	405.99	3.7163	1.2975
#1	-.00129	.21672	.00039	.00278	.00427
#2	-.00045	.20123	-.00081	.00293	.00435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**2.6840**	**.00006**	**-.0384**	**.00057**
Stddev	.00002	.0097	.00003	.0248	.00005
%RSD	20.629	.36021	53.428	64.66	8.9300
#1	.00008	2.6908	.00004	-.0209	.00060
#2	.00010	2.6772	.00008	-.0560	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00518**	**4.4635**	**1.2171**	**.01030**
Stddev	.00007	.00074	.0277	.0175	.00039
%RSD	40.122	14.266	.62079	1.4338	3.7371
#1	-.00012	.00570	4.4831	1.2294	.01058
#2	-.00021	.00466	4.4439	1.2048	.01003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-8-B Acquired: 6/14/2022 0:12:55 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.3596**	**.04999**	**.00073**	**7.1225**	**.00278**
Stddev	.0157	.00004	.00010	.0135	.00030
%RSD	.66404	.08725	13.716	.18988	10.821
#1	2.3486	.05002	.00080	7.1320	.00256
#2	2.3707	.04996	.00066	7.1129	.00299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00200**	**1.1487**	**-.00206**	**.00134**
Stddev	.00	.00032	.0060	.00065	.00078
%RSD	.0009	15.820	.52480	31.584	58.604
#1	25.03	.00177	1.1530	-.00252	.00189
#2	25.03	.00222	1.1444	-.00160	.00078
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.328**	**-.00012**	**.04612**	**1.000**	**.00153**
Stddev	.040	.00021	.00006	.007	.00066
%RSD	.38893	168.41	.13153	.7155	43.114
#1	10.357	.00002	.04616	1.005	.00200
#2	10.300	-.00027	.04607	.9950	.00106
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-8-B Acquired: 6/14/2022 0:12:55 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00096**	**.00008**	**.00764**	**.9999**
Stddev	.00066	.00065	.00047	.0007
%RSD	68.156	855.62	6.0888	.0739
#1	-.00050	-.00039	.00797	.9994
#2	-.00143	.00054	.00731	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3354.4**	**2519.0**	**24244.**	**3517.3**
Stddev	3.0	3.7	200.	2.2
%RSD	.08880	.14701	.82287	.06205
#1	3352.3	2516.4	24385.	3518.9
#2	3356.5	2521.6	24103.	3515.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.85%	104.44%	102.99%	101.74%
Range				

Sample Name: CCV-7018483 Acquired: 6/14/2022 0:16:48 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.92801**	**46.736**	**.96355**	**.99699**	**.96441**
Stddev	.00013	.496	.00340	.00105	.00467
%RSD	.01353	1.0620	.35300	.10557	.48471
#1	.92792	46.385	.96596	.99624	.96110
#2	.92810	47.087	.96115	.99773	.96771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97114**	**47.287**	**.95766**	**.9404**	**.94829**
Stddev	.00505	.409	.00033	.0381	.00060
%RSD	.52003	.86466	.03476	4.055	.06348
#1	.96757	46.998	.95790	.9134	.94871
#2	.97471	47.576	.95743	.9674	.94786
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0251**	**.94402**	**47.278**	**48.407**	**.93840**
Stddev	.0041	.00096	.234	.389	.00653
%RSD	.40161	.10208	.49498	.80429	.69539
#1	1.0281	.94471	47.112	48.131	.93379
#2	1.0222	.94334	47.443	48.682	.94302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/14/2022 0:16:48 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.556**	**.99888**	**1.0046**	**47.665**	**.96531**
Stddev	.068	.00122	.0020	.397	.00023
%RSD	.13639	.12248	.19529	.83380	.02430
#1	49.604	.99975	1.0032	47.384	.96514
#2	49.508	.99802	1.0059	47.946	.96547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.91**	**.95097**	**23.290**	**.94599**	**.98319**
Stddev	.01	.00295	.032	.00081	.00268
%RSD	.0247	.31000	.13550	.08553	.27276
#1	36.91	.94888	23.312	.94656	.98129
#2	36.90	.95305	23.267	.94542	.98508
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2556**	**.94345**	**.94284**	**1.463**	**.95095**
Stddev	.1774	.00064	.00752	.005	.00127
%RSD	1.9171	.06767	.79753	.3208	.13384
#1	9.1302	.94391	.93752	1.459	.95185
#2	9.3811	.94300	.94816	1.466	.95005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/14/2022 0:16:48 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99967**	**.94549**	**.99367**	**1.497**
Stddev	.00175	.00140	.00108	.004
%RSD	.17507	.14850	.10907	.2575
#1	1.0009	.94450	.99444	1.495
#2	.99843	.94648	.99291	1.500
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2907.9**	**2385.7**	**22403.**	**3296.1**
Stddev	4.5	2.0	3.	38.1
%RSD	.15360	.08350	.01245	1.1546
#1	2911.0	2387.1	22405.	3323.0
#2	2904.7	2384.3	22402.	3269.2

Sample Name: CCB-7026764 Acquired: 6/14/2022 0:20:29 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00795**	**-.00092**	**.00007**	**-.00001**
Stddev	.00005	.00189	.00030	.00037	.00001
%RSD	36.485	23.755	32.455	549.99	111.01
#1	.00009	-.00661	-.00113	-.00019	-.00000
#2	.00016	-.00928	-.00071	.00033	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.00682**	**.00001**	**-.0151**	**.00007**
Stddev	.00007	.00187	.00002	.0072	.00028
%RSD	108.37	27.396	176.14	47.26	413.96
#1	-.00001	-.00550	-.00000	-.0202	.00027
#2	-.00011	-.00815	.00003	-.0101	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00457**	**-.01377**	**.07635**	**-.00012**
Stddev	.00064	.00026	.00039	.04079	.00137
%RSD	616.25	5.7505	2.8563	53.428	1151.7
#1	.00035	.00476	-.01405	.04750	.00085
#2	-.00055	.00439	-.01350	.10519	-.00108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 0:20:29 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00135**	**-.00008**	**-.00001**	**-.00363**	**.00018**
Stddev	.00159	.00003	.00000	.00186	.00027
%RSD	118.23	41.296	37.692	51.152	147.19
#1	-.00247	-.00006	-.00001	-.00495	.00038
#2	-.00022	-.00011	-.00001	-.00232	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00056**	**-.02059**	**-.00127**	**.00107**
Stddev	.00	.00184	.00022	.00040	.00203
%RSD	.0009	326.46	1.0888	31.899	190.14
#1	25.02	.00187	-.02043	-.00155	-.00037
#2	25.02	-.00074	-.02075	-.00098	.00250
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.08263**	**-.00014**	**.00011**	**.9998**	**.00014**
Stddev	.00108	.00011	.00010	.0035	.00021
%RSD	1.3044	77.158	97.113	.3454	151.47
#1	-.08340	-.00006	.00018	.9974	-.00001
#2	-.08187	-.00022	.00003	1.002	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 0:20:29 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00025**	**-.00003**	**-.00200**	**.9985**
Stddev	.00037	.00052	.00007	.0003
%RSD	147.16	1679.2	3.5135	.0324
#1	.00001	-.00040	-.00195	.9987
#2	-.00051	.00034	-.00205	.9983
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3417.8**	**2511.2**	**24227.**	**3426.5**
Stddev	13.0	8.5	36.	8.4
%RSD	.38039	.33660	.15050	.24553
#1	3408.6	2505.2	24252.	3432.5
#2	3427.0	2517.2	24201.	3420.6

Sample Name: CCVL-7028546 Acquired: 6/14/2022 0:24:24 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00505**	**.18145**	**.01091**	**.01829**	**.00203**
Stddev	.00031	.01682	.00069	.00051	.00002
%RSD	6.1709	9.2693	6.3284	2.7741	1.0426
#1	.00483	.19334	.01042	.01865	.00202
#2	.00527	.16956	.01140	.01794	.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00191**	**.46533**	**.00198**	**-.0552**	**.00366**
Stddev	.00009	.00568	.00004	.0583	.00024
%RSD	4.9689	1.2200	1.8970	105.6	6.4653
#1	.00197	.46934	.00200	-.0964	.00383
#2	.00184	.46131	.00195	-.0140	.00349
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00374**	W **.01405**	**.03630**	**.50301**	**.02536**
Stddev	.00005	.00111	.00130	.00280	.00108
%RSD	1.3576	7.9016	3.5739	.55732	4.2731
#1	.00370	.01484	.03722	.50103	.02613
#2	.00377	.01327	.03538	.50499	.02460
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value		.01000			
Range		30.000%			

Sample Name: CCVL-7028546 Acquired: 6/14/2022 0:24:24 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19097**	**.00324**	**.01000**	**.88166**	**.00934**
Stddev	.00328	.00000	.00004	.00737	.00028
%RSD	1.7163	.05484	.37820	.83638	2.9916
#1	.18865	.00324	.00998	.88688	.00954
#2	.19329	.00324	.01003	.87645	.00914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00945**	**.15964**	**.01836**	**.02080**
Stddev	.00	.00050	.00137	.00124	.00222
%RSD	.0030	5.2621	.85652	6.7417	10.694
#1	25.00	.00980	.16061	.01748	.02237
#2	25.00	.00910	.15868	.01923	.01922
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.35898**	**.00855**	**.00494**	F **.9969**	**.00450**
Stddev	.00903	.00049	.00010	.0025	.00046
%RSD	2.5166	5.7192	2.1090	.2462	10.150
#1	.36536	.00890	.00486	.9951	.00483
#2	.35259	.00820	.00501	.9986	.00418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/14/2022 0:24:24 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01932**	**.00432**	**.00770**	F **.9995**
Stddev	.00012	.00011	.00006	.0011
%RSD	.63551	2.5765	.77725	.1110
#1	.01923	.00439	.00766	.9987
#2	.01940	.00424	.00775	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3410.3**	**2516.2**	**24358.**	**3446.1**
Stddev	2.2	2.0	16.	14.1
%RSD	.06538	.07963	.06545	.40795
#1	3411.8	2517.7	24369.	3436.2
#2	3408.7	2514.8	24347.	3456.1

Sample Name: 480-198840-C-9-B Acquired: 6/14/2022 0:28:19 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.05089**	**-.00203**	**.01128**	**.06677**
Stddev	.00001	.03283	.00152	.00026	.00017
%RSD	2.6542	64.510	74.652	2.2951	.26056
#1	-.00050	.02768	-.00096	.01146	.06664
#2	-.00052	.07410	-.00311	.01109	.06689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**10.038**	**.00023**	**-.0454**	**.00233**
Stddev	.00010	.021	.00000	.0026	.00004
%RSD	326180.	.20979	.94683	5.781	1.5977
#1	-.00007	10.053	.00023	-.0473	.00235
#2	.00007	10.024	.00024	-.0435	.00230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.01875**	**11.578**	**6.2797**	**.01656**
Stddev	.00003	.00023	.050	.0051	.00008
%RSD	29.910	1.2118	.43357	.08098	.49452
#1	.00009	.01891	11.613	6.2761	.01651
#2	.00014	.01859	11.542	6.2833	.01662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-9-B Acquired: 6/14/2022 0:28:19 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7730**	**2.1981**	**.00018**	**15.934**	**.00049**
Stddev	.0178	.0039	.00015	.098	.00004
%RSD	.18258	.17677	84.356	.61606	7.2789
#1	9.7604	2.2009	.00007	16.003	.00052
#2	9.7856	2.1954	.00029	15.865	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.34**	**.00427**	**.34398**	**.00012**	**.00076**
Stddev	.00	.00015	.00234	.00070	.00116
%RSD	.0023	3.6245	.68067	567.51	153.20
#1	25.34	.00416	.34233	.00062	.00158
#2	25.34	.00438	.34564	-.00037	-.00006
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.781**	**-.00023**	**.05971**	**1.002**	**-.00005**
Stddev	.052	.00036	.00010	.001	.00012
%RSD	.32930	158.21	.16090	.0554	227.71
#1	15.818	.00003	.05978	1.002	-.00014
#2	15.744	-.00048	.05964	1.003	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-9-B Acquired: 6/14/2022 0:28:19 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00039**	**.01239**	**1.0000**
Stddev	.00026	.00023	.00019	.0005
%RSD	327.39	59.576	1.5502	.0491
#1	-.00010	.00056	.01253	.9996
#2	.00026	.00023	.01225	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3203.7**	**2462.2**	**23678.**	**3390.5**
Stddev	4.6	4.3	25.	30.5
%RSD	.14227	.17625	.10558	.89975
#1	3206.9	2465.3	23695.	3369.0
#2	3200.5	2459.1	23660.	3412.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.231%	102.08%	100.59%	98.069%
Range				

Sample Name: 480-198840-C-10-B Acquired: 6/14/2022 0:32:11 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00137**	**-.00092**	**.00073**	**.03344**	**.02859**
Stddev	.00037	.00281	.00005	.00032	.00001
%RSD	26.916	305.71	7.3545	.96437	.03084
#1	-.00163	.00107	.00077	.03367	.02860
#2	-.00111	-.00291	.00069	.03321	.02858
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**43.339**	**.00030**	**-.0734**	**-.00011**
Stddev	.00009	.052	.00009	.0082	.00004
%RSD	338.86	.12031	28.652	11.17	33.583
#1	-.00004	43.302	.00036	-.0792	-.00008
#2	.00009	43.376	.00024	-.0676	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00511**	**42.421**	**3.4179**	**.02968**
Stddev	.00012	.00015	.015	.0103	.00090
%RSD	42.710	2.9372	.03476	.30119	3.0337
#1	-.00038	.00522	42.431	3.4252	.03032
#2	-.00020	.00501	42.410	3.4107	.02904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-10-B Acquired: 6/14/2022 0:32:11 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**41.388**	**6.1508**	**-.00077**	**15.600**	**.00167**
Stddev	.153	.0890	.00015	.026	.00013
%RSD	.37072	1.4475	19.655	.16976	7.9404
#1	41.279	6.0879	-.00066	15.582	.00158
#2	41.496	6.2138	-.00087	15.619	.00177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.06**	**.00323**	**61.217**	**.00525**	**.00315**
Stddev	.00	.00129	.250	.00289	.00107
%RSD	.0007	40.042	.40866	55.045	34.034
#1	25.06	.00231	61.394	.00320	.00239
#2	25.06	.00414	61.040	.00729	.00391
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.1381**	**.00062**	**.20853**	**1.017**	**.00006**
Stddev	.0075	.00035	.00032	.001	.00016
%RSD	.09201	57.078	.15136	.0683	261.34
#1	8.1328	.00037	.20831	1.018	.00018
#2	8.1434	.00087	.20875	1.017	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198840-C-10-B Acquired: 6/14/2022 0:32:11 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00224**	**.00041**	**.00309**	**.9981**
Stddev	.00030	.00032	.00016	.0010
%RSD	13.346	76.883	5.2593	.1026
#1	-.00245	.00064	.00320	.9988
#2	-.00203	.00019	.00297	.9974
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3104.4**	**2435.2**	**23394.**	**3411.9**
Stddev	.3	1.1	181.	13.1
%RSD	.01008	.04557	.77400	.38424
#1	3104.2	2436.0	23522.	3421.2
#2	3104.6	2434.4	23266.	3402.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.187%	100.96%	99.383%	98.687%
Range				

Sample Name: 480-198843-D-1-B Acquired: 6/14/2022 0:36:07 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.05078**	**.00539**	**.12715**	**.27260**
Stddev	.00073	.00328	.00073	.00005	.00120
%RSD	169.65	6.4512	13.514	.03588	.43936
#1	.00009	.05309	.00591	.12711	.27175
#2	-.00094	.04846	.00488	.12718	.27344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**105.77**	**.00026**	**-.0487**	**-.00009**
Stddev	.00002	.40	.00017	.0279	.00013
%RSD	117.17	.37737	64.802	57.17	138.99
#1	-.00000	106.05	.00039	-.0685	-.00018
#2	-.00003	105.49	.00014	-.0290	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	**.00517**	**.02668**	**20.539**	**.02438**
Stddev	.00003	.00086	.00063	.143	.00150
%RSD	4.9084	16.671	2.3523	.69476	6.1586
#1	.00067	.00456	.02624	20.640	.02544
#2	.00072	.00578	.02712	20.439	.02332
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198843-D-1-B Acquired: 6/14/2022 0:36:07 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.147**	**.00097**	**.00104**	**19.065**	**.00042**
Stddev	.072	.00009	.00016	.104	.00036
%RSD	.44578	9.5717	15.213	.54758	85.467
#1	16.198	.00103	.00093	19.138	.00067
#2	16.096	.00090	.00116	18.991	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.00379**	**12.284**	**-.00266**	**.00068**
Stddev	.00	.00071	.013	.00013	.00127
%RSD	.0006	18.827	.10329	4.9650	187.95
#1	25.05	.00329	12.293	-.00257	-.00022
#2	25.05	.00430	12.275	-.00276	.00158
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.287**	**-.00037**	**.69966**	**.9941**	**.00193**
Stddev	.114	.00028	.00420	.0086	.00015
%RSD	.53336	73.824	.60042	.8652	7.9713
#1	21.367	-.00057	.70263	.9880	.00203
#2	21.207	-.00018	.69668	1.000	.00182
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198843-D-1-B Acquired: 6/14/2022 0:36:07 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00093**	**.01847**	**-.00025**	**1.000**
Stddev	.00006	.00017	.00016	.000
%RSD	6.3546	.89825	64.110	.0126
#1	-.00089	.01859	-.00014	1.000
#2	-.00097	.01835	-.00036	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3118.6**	**2447.6**	**23414.**	**3401.5**
Stddev	2.9	2.1	473.	7.3
%RSD	.09447	.08421	2.0206	.21554
#1	3116.5	2446.1	23080.	3406.7
#2	3120.7	2449.0	23749.	3396.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.622%	101.48%	99.469%	98.386%
Range				

Sample Name: 480-198843-D-2-B Acquired: 6/14/2022 0:39:58 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00087**	**.01888**	**.00490**	**.12520**	**.27022**
Stddev	.00048	.02024	.00027	.00018	.00080
%RSD	54.784	107.18	5.5632	.14490	.29515
#1	-.00053	.00457	.00509	.12533	.26966
#2	-.00120	.03319	.00471	.12507	.27078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**103.91**	**.00017**	**-.0435**	**-.00007**
Stddev	.00000	.25	.00016	.0622	.00006
%RSD	12.568	.23868	94.394	142.8	78.441
#1	-.00001	104.08	.00028	.0004	-.00003
#2	-.00001	103.73	.00006	-.0875	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.00584**	**.01473**	**20.342**	**.02429**
Stddev	.00015	.00012	.00080	.143	.00019
%RSD	41.146	2.0698	5.4085	.70385	.80189
#1	.00047	.00592	.01530	20.443	.02443
#2	.00026	.00575	.01417	20.241	.02416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198843-D-2-B Acquired: 6/14/2022 0:39:58 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.891**	**.00081**	**.00107**	**18.857**	**.00015**
Stddev	.013	.00005	.00019	.092	.00007
%RSD	.08201	6.6791	17.350	.48865	46.814
#1	15.882	.00084	.00094	18.922	.00019
#2	15.901	.00077	.00120	18.792	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.00246**	**12.068**	**-.00313**	**.00195**
Stddev	.00	.00058	.043	.00064	.00089
%RSD	.0011	23.595	.35441	20.537	45.669
#1	25.05	.00287	12.098	-.00359	.00258
#2	25.05	.00205	12.037	-.00268	.00132
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.954**	**-.00036**	**.69402**	**.9975**	**.00187**
Stddev	.044	.00063	.00308	.0009	.00008
%RSD	.20997	173.94	.44386	.0901	4.2941
#1	20.985	-.00080	.69620	.9968	.00192
#2	20.923	.00008	.69184	.9981	.00181
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198843-D-2-B Acquired: 6/14/2022 0:39:58 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00016**	**.01842**	**-.00017**	**.9992**
Stddev	.00039	.00035	.00003	.0002
%RSD	253.24	1.9246	15.108	.0206
#1	.00043	.01817	-.00019	.9994
#2	-.00012	.01867	-.00015	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3103.4**	**2436.7**	**23566.**	**3498.2**
Stddev	4.9	.5	28.	2.5
%RSD	.15937	.02066	.11767	.07288
#1	3106.9	2437.1	23546.	3496.4
#2	3099.9	2436.4	23585.	3500.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.157%	101.03%	100.11%	101.18%
Range				

Sample Name: 480-198843-D-3-B Acquired: 6/14/2022 0:43:49 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.00897**	**.00343**	**.04787**	**.40750**
Stddev	.00108	.03169	.00142	.00023	.00190
%RSD	301.94	353.40	41.400	.47981	.46526
#1	.00041	-.01344	.00243	.04803	.40616
#2	-.00112	.03138	.00444	.04771	.40884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**64.440**	**.00018**	**-.0396**	**-.00013**
Stddev	.00006	.359	.00002	.0000	.00001
%RSD	50.691	.55712	11.537	.1239	9.6953
#1	.00008	64.694	.00020	-.0396	-.00012
#2	.00016	64.187	.00017	-.0396	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**.00395**	**.01162**	**11.038**	**.01467**
Stddev	.00068	.00008	.00108	.049	.00017
%RSD	93.687	2.0740	9.3324	.44121	1.1610
#1	.00024	.00389	.01086	11.073	.01479
#2	.00120	.00401	.01239	11.004	.01455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198843-D-3-B Acquired: 6/14/2022 0:43:49 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.976**	**.00007**	**.00105**	**3.8934**	**-.00000**
Stddev	.068	.00015	.00016	.0230	.00002
%RSD	.52126	210.40	15.630	.58973	1263.8
#1	12.928	.00017	.00116	3.9097	-.00002
#2	13.024	-.00003	.00093	3.8772	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00285**	**4.9786**	**-.00378**	**-.00164**
Stddev	.00	.00006	.0066	.00034	.00242
%RSD	.0010	2.2156	.13310	8.8980	147.87
#1	25.02	.00280	4.9739	-.00355	-.00335
#2	25.02	.00289	4.9833	-.00402	.00007
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.504**	**-.00053**	**.58918**	**.9949**	**.00064**
Stddev	.055	.00046	.00336	.0078	.00020
%RSD	.26764	86.705	.57111	.7871	31.004
#1	20.543	-.00020	.59156	.9894	.00050
#2	20.465	-.00085	.58680	1.000	.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198843-D-3-B Acquired: 6/14/2022 0:43:49 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00031**	**.01239**	**-.00032**	**1.0000**
Stddev	.00056	.00048	.00032	.0003
%RSD	180.98	3.8857	99.055	.0308
#1	-.00009	.01273	-.00055	.9998
#2	.00071	.01205	-.00010	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3207.6**	**2479.1**	**23937.**	**3562.9**
Stddev	.3	.5	124.	9.0
%RSD	.01004	.02000	.51662	.25211
#1	3207.3	2478.8	24024.	3556.6
#2	3207.8	2479.5	23849.	3569.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.350%	102.79%	101.69%	103.06%
Range				

Sample Name: 480-198843-D-4-B Acquired: 6/14/2022 0:47:41 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**.26556**	**.00517**	**.05477**	**.15788**
Stddev	.00037	.00200	.00012	.00044	.00063
%RSD	60.329	.75499	2.2305	.80165	.39945
#1	-.00035	.26414	.00509	.05508	.15833
#2	-.00088	.26697	.00525	.05446	.15744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**85.034**	**.00025**	**-.0688**	**.00002**
Stddev	.00000	.020	.00015	.0063	.00013
%RSD	6.9699	.02332	60.434	9.200	587.24
#1	.00004	85.048	.00036	-.0643	-.00007
#2	.00004	85.020	.00015	-.0733	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**.00475**	**.17513**	**13.440**	**.01862**
Stddev	.00017	.00047	.00083	.003	.00149
%RSD	21.467	9.8052	.47584	.02526	7.9761
#1	.00068	.00508	.17454	13.443	.01757
#2	.00092	.00442	.17572	13.438	.01967
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198843-D-4-B Acquired: 6/14/2022 0:47:41 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.054**	**.00406**	**.00144**	**12.176**	**.00000**
Stddev	.062	.00008	.00012	.023	.00013
%RSD	.29342	1.9715	8.5178	.19012	4215.7
#1	21.098	.00400	.00136	12.193	.00010
#2	21.010	.00411	.00153	12.160	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00316**	**14.986**	**-.00124**	**.01074**
Stddev	.00	.00093	.017	.00064	.00291
%RSD	.0009	29.568	.11575	51.800	27.056
#1	25.02	.00382	14.998	-.00169	.01280
#2	25.02	.00250	14.974	-.00078	.00869
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.318**	**-.00062**	**.87582**	**.9996**	**.00764**
Stddev	.027	.00003	.00087	.0015	.00058
%RSD	.12625	5.6212	.09912	.1519	7.5663
#1	21.337	-.00064	.87643	1.001	.00723
#2	21.299	-.00059	.87520	.9985	.00804
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198843-D-4-B Acquired: 6/14/2022 0:47:41 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00023**	**.01257**	**-.00068**	**.9985**
Stddev	.00000	.00000	.00013	.0005
%RSD	2.0449	.01457	19.209	.0532
#1	.00022	.01257	-.00059	.9989
#2	.00023	.01257	-.00078	.9981
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3132.6**	**2452.1**	**23647.**	**3523.5**
Stddev	3.2	3.5	13.	4.1
%RSD	.10152	.14133	.05593	.11756
#1	3134.8	2454.5	23656.	3520.5
#2	3130.3	2449.6	23637.	3526.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.051%	101.66%	100.46%	101.91%
Range				

Sample Name: 480-198843-D-5-B Acquired: 6/14/2022 0:51:33 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.06873**	**.00445**	**.14800**	**.21274**
Stddev	.00031	.01124	.00029	.00003	.00022
%RSD	147.94	16.357	6.5358	.01885	.10150
#1	-.00043	.07668	.00424	.14802	.21258
#2	.00001	.06078	.00466	.14798	.21289
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**100.35**	**.00030**	**-.0176**	**-.00002**
Stddev	.00003	.51	.00007	.0003	.00005
%RSD	126.44	.51046	23.601	1.682	218.03
#1	.00005	99.986	.00035	-.0174	-.00006
#2	.00000	100.71	.00025	-.0178	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**.00524**	**.03153**	**15.838**	**.02367**
Stddev	.00023	.00031	.00016	.155	.00129
%RSD	36.378	5.8956	.52247	.97852	5.4305
#1	.00047	.00545	.03165	15.728	.02276
#2	.00080	.00502	.03141	15.947	.02458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198843-D-5-B Acquired: 6/14/2022 0:51:33 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.525**	**.00161**	**.00049**	**26.679**	**.00008**
Stddev	.051	.00003	.00009	.117	.00019
%RSD	.21687	2.1699	17.612	.43715	245.19
#1	23.561	.00163	.00043	26.596	.00021
#2	23.489	.00158	.00055	26.761	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00430**	**21.533**	**-.00277**	**.00369**
Stddev	.00	.00017	.040	.00137	.00157
%RSD	.0047	4.0653	.18513	49.468	42.605
#1	25.02	.00443	21.505	-.00374	.00258
#2	25.02	.00418	21.561	-.00180	.00480
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.636**	**.00076**	**1.0186**	**.9958**	**.00246**
Stddev	.154	.00001	.0044	.0048	.00008
%RSD	.62574	1.8437	.43438	.4862	3.4393
#1	24.527	.00077	1.0155	.9924	.00240
#2	24.745	.00075	1.0217	.9992	.00252
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198843-D-5-B Acquired: 6/14/2022 0:51:33 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00056**	**.01414**	**.00330**	**.9997**
Stddev	.00051	.00015	.00030	.0000
%RSD	91.174	1.0744	9.1106	.0032
#1	.00092	.01404	.00351	.9997
#2	.00020	.01425	.00309	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3057.9**	**2411.8**	**23184.**	**3416.2**
Stddev	6.9	1.5	36.	18.3
%RSD	.22675	.06364	.15386	.53664
#1	3053.0	2410.7	23209.	3429.1
#2	3062.8	2412.9	23159.	3403.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.760%	99.993%	98.489%	98.811%
Range				

Sample Name: 480-198843-D-6-B Acquired: 6/14/2022 0:55:24 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00187**	**.00394**	**.04752**	**.06691**
Stddev	.00145	.03820	.00082	.00001	.00009
%RSD	1589.5	2041.3	20.757	.01465	.13311
#1	-.00112	-.02888	.00337	.04751	.06698
#2	.00093	.02514	.00452	.04752	.06685
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**58.637**	**.00031**	**-.0431**	**.00004**
Stddev	.00002	.208	.00000	.0301	.00005
%RSD	46.539	.35533	.02028	69.80	116.24
#1	.00003	58.784	.00031	-.0644	.00007
#2	.00006	58.489	.00031	-.0218	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.00463**	**-.00949**	**11.640**	**.01596**
Stddev	.00037	.00037	.00023	.033	.00052
%RSD	77.382	7.9636	2.4155	.28516	3.2424
#1	.00022	.00437	-.00933	11.663	.01633
#2	.00074	.00489	-.00965	11.616	.01560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198843-D-6-B Acquired: 6/14/2022 0:55:24 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.946**	**-.00008**	**.00330**	**8.1778**	**-.00002**
Stddev	.011	.00003	.00021	.0424	.00004
%RSD	.07110	45.352	6.3503	.51810	180.73
#1	14.954	-.00005	.00315	8.2078	-.00005
#2	14.939	-.00010	.00345	8.1478	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00258**	**17.624**	**-.00230**	**.01537**
Stddev	.00	.00084	.024	.00169	.00054
%RSD	.0003	32.466	.13413	73.683	3.5449
#1	25.02	.00199	17.607	-.00110	.01498
#2	25.02	.00317	17.640	-.00350	.01575
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.028**	**.00160**	**.60285**	**.9957**	**.00010**
Stddev	.085	.00053	.00231	.0076	.00005
%RSD	.42442	33.029	.38246	.7672	50.552
#1	20.088	.00123	.60448	1.001	.00014
#2	19.967	.00198	.60122	.9903	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198843-D-6-B Acquired: 6/14/2022 0:55:24 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00109**	**.01158**	**-.00075**	**.9991**
Stddev	.00160	.00023	.00035	.0004
%RSD	146.49	1.9824	46.283	.0446
#1	.00223	.01142	-.00099	.9994
#2	-.00004	.01174	-.00050	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3175.1**	**2453.4**	**23582.**	**3464.6**
Stddev	9.5	5.8	69.	9.1
%RSD	.29936	.23782	.29257	.26380
#1	3168.4	2449.3	23534.	3458.2
#2	3181.8	2457.5	23631.	3471.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.354%	101.72%	100.18%	100.21%
Range				

Sample Name: MB 480-629606/1-A Acquired: 6/14/2022 0:59:16 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.00080**	**-.00023**	**-.00015**	**.00001**
Stddev	.00009	.00734	.00142	.00012	.00003
%RSD	39.224	919.67	623.37	76.441	259.55
#1	.00016	.00599	-.00123	-.00007	-.00001
#2	.00028	-.00439	.00078	-.00024	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00600**	**.00005**	**-.0465**	**.00008**
Stddev	.00004	.00152	.00013	.0085	.00003
%RSD	66.154	25.406	245.14	18.22	39.307
#1	.00003	.00708	-.00004	-.0405	.00010
#2	.00009	.00492	.00014	-.0524	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00454**	**-.01229**	**.03300**	**.00077**
Stddev	.00003	.00029	.00332	.06523	.00004
%RSD	15.831	6.4000	27.049	197.66	4.6981
#1	.00019	.00433	-.00994	-.01312	.00079
#2	.00024	.00474	-.01464	.07913	.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629606/1-A Acquired: 6/14/2022 0:59:16 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00291**	**-.00027**	**-.00015**	**.00283**	**.00048**
Stddev	.00309	.00002	.00019	.00767	.00014
%RSD	106.11	8.4539	126.66	271.08	28.586
#1	.00510	-.00029	-.00002	-.00259	.00039
#2	.00073	-.00026	-.00029	.00825	.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00036**	**-.01576**	**-.00118**	**.00178**
Stddev	.00	.00053	.00088	.00093	.00035
%RSD	.0028	148.61	5.5748	79.314	19.551
#1	25.02	-.00074	-.01638	-.00184	.00202
#2	25.02	.00002	-.01514	-.00052	.00153
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.08483**	**-.00034**	**.00015**	**.9942**	**.00005**
Stddev	.00095	.00004	.00001	.0035	.00063
%RSD	1.1249	12.300	7.9577	.3521	1255.8
#1	-.08550	-.00031	.00014	.9967	.00050
#2	-.08415	-.00037	.00016	.9917	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629606/1-A Acquired: 6/14/2022 0:59:16 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00058**	**-.00014**	**-.00099**	**.9994**
Stddev	.00184	.00008	.00034	.0009
%RSD	318.14	58.855	34.988	.0945
#1	.00072	-.00008	-.00074	1.000
#2	-.00188	-.00020	-.00123	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3474.6**	**2564.6**	**24935.**	**3541.6**
Stddev	10.3	7.4	81.	4.8
%RSD	.29758	.28979	.32548	.13631
#1	3482.0	2569.8	24878.	3538.2
#2	3467.3	2559.3	24993.	3545.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	106.54%	106.33%	105.93%	102.44%
Range				

Sample Name: CCV-7018483 Acquired: 6/14/2022 1:03:14 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93100**	**46.750**	**.96239**	**.99357**	**.96572**
Stddev	.00150	.240	.00141	.00059	.00342
%RSD	.16065	.51349	.14657	.05902	.35452
#1	.93206	46.919	.96339	.99316	.96815
#2	.92994	46.580	.96139	.99399	.96330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96898**	**47.179**	**.95610**	**.9573**	**.94470**
Stddev	.00285	.158	.00071	.0153	.00024
%RSD	.29374	.33394	.07395	1.601	.02562
#1	.97099	47.290	.95660	.9681	.94487
#2	.96696	47.067	.95560	.9465	.94453
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0237**	**.94172**	**47.163**	**48.267**	**.93912**
Stddev	.0015	.00028	.027	.103	.00451
%RSD	.14498	.02921	.05760	.21318	.48037
#1	1.0247	.94153	47.183	48.340	.94231
#2	1.0226	.94192	47.144	48.194	.93593
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/14/2022 1:03:14 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.700**	**.99536**	**.99728**	**47.657**	**.96278**
Stddev	.069	.00116	.00156	.122	.00127
%RSD	.13975	.11636	.15679	.25529	.13228
#1	49.749	.99455	.99839	47.743	.96369
#2	49.650	.99618	.99618	47.571	.96188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.91**	**.94655**	**23.325**	**.94098**	**.97867**
Stddev	.00	.00064	.029	.00032	.00152
%RSD	.0085	.06744	.12376	.03378	.15549
#1	36.91	.94700	23.345	.94120	.97759
#2	36.92	.94610	23.304	.94075	.97974
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2148**	**.94075**	**.93942**	**1.467**	**.95050**
Stddev	.0034	.00016	.00302	.007	.00041
%RSD	.03702	.01679	.32131	.4542	.04341
#1	9.2124	.94064	.94155	1.472	.95079
#2	9.2172	.94086	.93728	1.462	.95021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/14/2022 1:03:14 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99603**	**.94660**	**.99780**	**1.497**
Stddev	.00156	.00120	.00073	.003
%RSD	.15630	.12708	.07364	.2107
#1	.99713	.94575	.99832	1.500
#2	.99492	.94745	.99728	1.495
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2934.8**	**2407.0**	**22459.**	**3322.8**
Stddev	.9	1.2	14.	20.1
%RSD	.03159	.05145	.06355	.60587
#1	2934.1	2407.9	22469.	3308.6
#2	2935.4	2406.1	22449.	3337.0

Sample Name: CCB-7026764 Acquired: 6/14/2022 1:06:55 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.02216**	**-.00058**	**-.00008**	**.00005**
Stddev	.00007	.03107	.00102	.00019	.00001
%RSD	272.46	140.18	176.60	233.29	18.685
#1	.00002	-.04413	.00014	.00005	.00004
#2	-.00007	-.00020	-.00130	-.00022	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00376**	**-.00004**	**-.0384**	**.00017**
Stddev	.00001	.00096	.00012	.0201	.00016
%RSD	61.010	25.603	333.62	52.37	93.893
#1	.00002	-.00308	.00005	-.0526	.00006
#2	.00001	-.00444	-.00012	-.0242	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.00492**	**-.01221**	**.01563**	**.00033**
Stddev	.00001	.00001	.00137	.01124	.00146
%RSD	4.8855	.17888	11.207	71.917	446.73
#1	-.00018	.00493	-.01318	.02358	-.00071
#2	-.00019	.00492	-.01124	.00768	.00136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 1:06:55 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00132**	**-.00012**	**.00026**	**.00144**	**.00030**
Stddev	.00469	.00005	.00005	.00897	.00005
%RSD	355.25	41.248	20.812	621.47	16.667
#1	-.00463	-.00009	.00022	.00778	.00034
#2	.00199	-.00016	.00030	-.00490	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00146**	**-.02082**	**-.00175**	**.00087**
Stddev	.00	.00094	.00280	.00190	.00232
%RSD	.0041	64.591	13.444	108.45	268.17
#1	25.02	-.00213	-.02280	-.00309	.00251
#2	25.02	-.00079	-.01884	-.00041	-.00078
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.07988**	**-.00033**	**.00010**	**.9962**	**-.00000**
Stddev	.00469	.00026	.00004	.0043	.00020
%RSD	5.8701	79.851	37.335	.4271	5418.6
#1	-.08319	-.00014	.00008	.9932	.00014
#2	-.07656	-.00051	.00013	.9992	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 1:06:55 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00002**	**-.00201**	**.9995**
Stddev	.00066	.00017	.00002	.0009
%RSD	369.56	850.26	1.0921	.0872
#1	.00029	-.00014	-.00202	1.000
#2	-.00065	.00010	-.00199	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3431.0**	**2523.7**	**24577.**	**3525.8**
Stddev	1.4	.0	44.	8.0
%RSD	.04205	.00047	.17900	.22808
#1	3430.0	2523.7	24545.	3531.5
#2	3432.1	2523.7	24608.	3520.1

Sample Name: CCVL-7028546 Acquired: 6/14/2022 1:10:53 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00560**	**.19846**	**.01244**	**.01839**	**.00204**
Stddev	.00055	.00065	.00148	.00020	.00002
%RSD	9.8358	.32941	11.933	1.0623	.74519
#1	.00521	.19800	.01139	.01825	.00203
#2	.00599	.19892	.01349	.01853	.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00198**	**.46215**	**.00198**	**-.0125**	**.00369**
Stddev	.00005	.00629	.00014	.0290	.00002
%RSD	2.7437	1.3617	7.3063	232.2	.62248
#1	.00202	.46660	.00208	-.0330	.00368
#2	.00194	.45770	.00188	.0080	.00371
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00396**	W **.01384**	**.03607**	**.46485**	**.02813**
Stddev	.00029	.00005	.00320	.01351	.00028
%RSD	7.1977	.37641	8.8675	2.9057	.99895
#1	.00416	.01380	.03834	.45530	.02833
#2	.00376	.01388	.03381	.47440	.02794
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value		.01000			
Range		30.000%			

Sample Name: CCVL-7028546 Acquired: 6/14/2022 1:10:53 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18889**	**.00298**	**.00982**	**.88002**	**.00910**
Stddev	.00130	.00003	.00021	.00691	.00024
%RSD	.68593	.86645	2.1781	.78464	2.6800
#1	.18981	.00300	.00967	.88490	.00928
#2	.18798	.00296	.00997	.87514	.00893
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00905**	**.15895**	**.01845**	**.02212**
Stddev	.00	.00012	.00092	.00130	.00027
%RSD	.0003	1.2821	.57757	7.0487	1.2394
#1	25.00	.00914	.15960	.01936	.02231
#2	25.00	.00897	.15831	.01753	.02192
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	W **.34662**	**.00832**	**.00483**	F **.9946**	**.00457**
Stddev	.00245	.00029	.00005	.0037	.00034
%RSD	.70609	3.5316	.96008	.3722	7.3724
#1	.34489	.00811	.00486	.9919	.00433
#2	.34835	.00853	.00480	.9972	.00481
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	.50000			.0060	
Range	-30.000%			50.00%	

Sample Name: CCVL-7028546 Acquired: 6/14/2022 1:10:53 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01934**	**.00450**	**.00708**	F **.9993**
Stddev	.00048	.00020	.00030	.0001
%RSD	2.4619	4.4307	4.2123	.0097
#1	.01901	.00464	.00729	.9992
#2	.01968	.00436	.00687	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3454.1**	**2545.3**	**24850.**	**3511.3**
Stddev	8.5	5.2	6.	11.2
%RSD	.24529	.20388	.02571	.31786
#1	3460.1	2549.0	24854.	3503.4
#2	3448.1	2541.7	24845.	3519.2

Sample Name: LCS 480-629606/2-O Acquired: 6/14/2022 1:14:48 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.04191**	**9.0692**	**.18089**	**.19158**	**.19114**
Stddev	.00001	.0052	.00006	.00031	.00011
%RSD	.02872	.05681	.03513	.16220	.05817
#1	.04190	9.0728	.18085	.19136	.19122
#2	.04192	9.0656	.18094	.19180	.19106
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.05750				
Low Limit	.04250				

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19132**	**8.8435**	**.17733**	**-.0903**	**.17524**
Stddev	.00043	.0774	.00004	.0429	.00031
%RSD	.22633	.87568	.02308	47.50	.17610
#1	.19163	8.8982	.17736	-.0600	.17502
#2	.19102	8.7887	.17730	-.1206	.17546
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19156**	**.18320**	**8.9698**	**9.1338**	**.17988**
Stddev	.00009	.00038	.0403	.0108	.00281
%RSD	.04640	.20707	.44909	.11804	1.5648
#1	.19162	.18293	8.9983	9.1415	.17789
#2	.19149	.18347	8.9413	9.1262	.18187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629606/2-O Acquired: 6/14/2022 1:14:48 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2870**	**.18996**	**.19505**	**8.8790**	**.17369**
Stddev	.0393	.00049	.00031	.0086	.00016
%RSD	.42282	.25769	.15680	.09711	.09369
#1	9.3148	.18962	.19483	8.8851	.17381
#2	9.2593	.19031	.19526	8.8729	.17358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.76**	**.17388**	**8.5625**	**.18428**	**.18415**
Stddev	.00	.00194	.0133	.00042	.00077
%RSD	.0012	1.1162	.15533	.22677	.41659
#1	24.76	.17526	8.5719	.18399	.18361
#2	24.76	.17251	8.5531	.18458	.18470
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.5683**	F **.13136**	**.18874**	**1.005**	**.17903**
Stddev	.0042	.00032	.00005	.001	.00026
%RSD	.04858	.24421	.02779	.1428	.14396
#1	8.5713	.13113	.18870	1.006	.17885
#2	8.5654	.13159	.18877	1.004	.17921
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: LCS 480-629606/2-O Acquired: 6/14/2022 1:14:48 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.18633**	**.17250**	**.17474**	**1.002**
Stddev	.00136	.00012	.00047	.000
%RSD	.73001	.07046	.26737	.0122
#1	.18537	.17241	.17441	1.001
#2	.18729	.17259	.17507	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3258.6**	**2494.2**	**24146.**	**3435.2**
Stddev	2.8	1.3	3.	36.1
%RSD	.08441	.05258	.01184	1.0516
#1	3260.5	2495.1	24148.	3409.7
#2	3256.6	2493.3	24144.	3460.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.913%	103.41%	102.58%	99.362%
Range				

Sample Name: 480-198814-A-2-A Acquired: 6/14/2022 1:18:32 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.00206**	**.00004**	**-.00019**	**.00002**
Stddev	.00027	.00720	.00184	.00006	.00002
%RSD	161.48	349.75	4428.5	33.367	113.67
#1	.00002	.00303	.00134	-.00024	.00000
#2	-.00036	-.00715	-.00126	-.00015	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00779**	**.00007**	**-.0211**	**.00006**
Stddev	.00005	.00473	.00011	.0120	.00008
%RSD	6749.0	60.715	161.70	56.69	146.50
#1	.00004	.01113	-.00001	-.0295	.00011
#2	-.00004	.00444	.00015	-.0126	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00484**	**-.01412**	**.01410**	**.00076**
Stddev	.00006	.00065	.00072	.00497	.00147
%RSD	32.324	13.394	5.0842	35.225	191.66
#1	.00014	.00530	-.01361	.01762	.00180
#2	.00023	.00438	-.01462	.01059	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-2-A Acquired: 6/14/2022 1:18:32 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00208**	**-.00025**	**-.00015**	**-.00642**	**.00013**
Stddev	.00304	.00010	.00016	.00914	.00009
%RSD	146.39	40.627	103.30	142.34	73.030
#1	.00007	-.00018	-.00004	-.01289	.00019
#2	-.00422	-.00032	-.00026	.00004	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00024**	**-.01907**	**-.00250**	**-.00015**
Stddev	.00	.00046	.00148	.00013	.00242
%RSD	.0007	194.82	7.7446	5.0717	1628.9
#1	25.02	.00056	-.01803	-.00241	-.00186
#2	25.02	-.00009	-.02012	-.00259	.00156
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.08931**	**-.00017**	**.00013**	**.9968**	**.00020**
Stddev	.00290	.00038	.00007	.0004	.00025
%RSD	3.2483	228.39	56.936	.0355	126.09
#1	-.08726	.00010	.00008	.9971	.00002
#2	-.09136	-.00044	.00018	.9966	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-2-A Acquired: 6/14/2022 1:18:32 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00025**	**-.00018**	**-.00177**	**.9986**
Stddev	.00034	.00010	.00036	.0004
%RSD	134.74	57.659	20.554	.0376
#1	-.00001	-.00011	-.00203	.9983
#2	-.00050	-.00025	-.00152	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3435.8**	**2533.0**	**24880.**	**3515.0**
Stddev	8.8	3.2	36.	9.1
%RSD	.25730	.12707	.14475	.26005
#1	3442.1	2535.3	24906.	3508.6
#2	3429.6	2530.7	24855.	3521.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	105.35%	105.02%	105.70%	101.67%
Range				

Sample Name: 480-198814-A-2-Asd@5 Acquired: 6/14/2022 1:22:28 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00556**	**-.00169**	**-.00062**	**.00010**
Stddev	.00045	.01335	.00002	.00020	.00001
%RSD	1584.2	240.22	1.2051	32.848	11.723
#1	-.00035	-.01500	-.00170	-.00076	.00011
#2	.00029	.00388	-.00167	-.00047	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00008**	**-.00003**	**-.0161**	**.00003**
Stddev	.00004	.00230	.00005	.0062	.00010
%RSD	208.96	2898.6	149.06	38.62	336.22
#1	-.00001	-.00155	.00000	-.0117	-.00004
#2	.00005	.00171	-.00007	-.0205	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00416**	**-.01378**	**-.01647**	**-.00017**
Stddev	.00003	.00003	.00015	.00222	.00201
%RSD	22.131	.73667	1.1159	13.465	1159.1
#1	-.00013	.00414	-.01389	-.01804	.00125
#2	-.00018	.00418	-.01367	-.01490	-.00160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-2-Asd@5 Acquired: 6/14/2022 1:22:28 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**-.00029**	**-.00013**	**-.00380**	**.00015**
Stddev	.00340	.00005	.00003	.00866	.00009
%RSD	661.68	17.392	24.069	228.03	61.488
#1	-.00292	-.00032	-.00011	.00233	.00022
#2	.00189	-.00025	-.00016	-.00992	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00045**	**-.02212**	**-.00105**	**.00162**
Stddev	.00	.00044	.00040	.00056	.00079
%RSD	.0026	97.933	1.8057	53.654	48.615
#1	25.02	.00076	-.02241	-.00145	.00106
#2	25.02	.00014	-.02184	-.00065	.00218
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.09106**	**-.00013**	**.00014**	**.9956**	**-.00025**
Stddev	.00831	.00025	.00005	.0038	.00026
%RSD	9.1276	189.04	32.405	.3796	101.93
#1	-.08518	.00004	.00017	.9982	-.00007
#2	-.09693	-.00031	.00011	.9929	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-2-Asd@5 Acquired: 6/14/2022 1:22:28 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00037**	**-.00015**	**-.00218**	**.9996**
Stddev	.00069	.00021	.00000	.0000
%RSD	186.19	139.47	.17088	.0039
#1	.00086	-.00030	-.00218	.9996
#2	-.00012	-.00000	-.00217	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3436.7**	**2542.8**	**24571.**	**3534.0**
Stddev	6.0	3.7	50.	.5
%RSD	.17544	.14475	.20146	.01487
#1	3441.0	2545.4	24606.	3534.4
#2	3432.4	2540.2	24536.	3533.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	105.37%	105.42%	104.38%	102.22%
Range				

Sample Name: 480-198814-A-2-APDS Acquired: 6/14/2022 1:26:23 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04829**	**9.6414**	**.20107**	**.20093**	**.20678**
Stddev	.00035	.0018	.00043	.00023	.00051
%RSD	.72427	.01902	.21394	.11528	.24562
#1	.04854	9.6401	.20137	.20076	.20714
#2	.04804	9.6427	.20076	.20109	.20642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20794**	**9.6425**	**.19517**	**-.0205**	**.19430**
Stddev	.00067	.0230	.00005	.0226	.00040
%RSD	.32023	.23809	.02712	110.0	.20547
#1	.20747	9.6588	.19513	-.0365	.19458
#2	.20841	9.6263	.19521	-.0046	.19402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21394**	**.20178**	**9.8325**	**9.2904**	**.18797**
Stddev	.00156	.00043	.0500	.0093	.00007
%RSD	.72772	.21168	.50828	.10009	.03894
#1	.21504	.20148	9.8678	9.2838	.18792
#2	.21284	.20208	9.7971	9.2970	.18802
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-2-APDS Acquired: 6/14/2022 1:26:23 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.497**	**.21203**	**.21065**	**9.2904**	**.19308**
Stddev	.056	.00040	.00002	.0239	.00016
%RSD	.53750	.18652	.00990	.25679	.08075
#1	10.537	.21231	.21066	9.3072	.19319
#2	10.457	.21175	.21063	9.2735	.19297
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.73**	**.19214**	**9.4053**	**.20508**	**.19924**
Stddev	.00	.00164	.0211	.00233	.00151
%RSD	.0039	.85269	.22433	1.1372	.75653
#1	24.73	.19098	9.3903	.20343	.20031
#2	24.73	.19330	9.4202	.20673	.19818
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3799**	**.18769**	**.19612**	**1.001**	**.19801**
Stddev	.0512	.00074	.00073	.003	.00072
%RSD	.54527	.39399	.37244	.3223	.36547
#1	9.4160	.18821	.19664	.9983	.19852
#2	9.3437	.18717	.19560	1.003	.19750
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-2-APDS Acquired: 6/14/2022 1:26:23 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20811**	**.19449**	**.19744**	**1.000**
Stddev	.00018	.00004	.00114	.001
%RSD	.08633	.01956	.57597	.0889
#1	.20799	.19452	.19824	1.001
#2	.20824	.19447	.19664	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3263.5**	**2516.6**	**23968.**	**3496.5**
Stddev	21.4	14.6	123.	19.6
%RSD	.65530	.58213	.51327	.55918
#1	3248.4	2506.2	23881.	3482.7
#2	3278.6	2527.0	24055.	3510.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.07%	104.34%	101.82%	101.13%
Range				

Sample Name: 480-198814-A-2-B MS Acquired: 6/14/2022 1:30:05 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04374**	**9.1475**	**.17524**	**.19232**	**.19638**
Stddev	.00076	.0010	.00019	.00026	.00048
%RSD	1.7318	.01126	.10911	.13291	.24661
#1	.04320	9.1482	.17537	.19214	.19604
#2	.04427	9.1468	.17510	.19250	.19672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18442**	**8.5548**	**.17304**	**-.0531**	**.17200**
Stddev	.00015	.0047	.00011	.0021	.00017
%RSD	.08024	.05525	.06325	3.912	.09729
#1	.18432	8.5581	.17312	-.0517	.17212
#2	.18453	8.5514	.17296	-.0546	.17188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18580**	**.17865**	**8.6920**	**9.0317**	**.18136**
Stddev	.00055	.00114	.0176	.0326	.00020
%RSD	.29365	.63591	.20200	.36140	.10923
#1	.18542	.17784	8.7045	9.0548	.18122
#2	.18619	.17945	8.6796	9.0087	.18150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-2-B MS Acquired: 6/14/2022 1:30:05 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.1493**	**.18193**	**.18810**	**8.8898**	**.17042**
Stddev	.0282	.00015	.00061	.0129	.00010
%RSD	.30773	.08460	.32313	.14521	.06065
#1	9.1294	.18182	.18767	8.8989	.17035
#2	9.1692	.18204	.18853	8.8807	.17049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.77**	**.17123**	**8.7209**	**.18009**	**.18095**
Stddev	.00	.00113	.0186	.00006	.00354
%RSD	.0022	.66262	.21374	.03287	1.9587
#1	24.77	.17043	8.7341	.18005	.17844
#2	24.77	.17203	8.7077	.18013	.18345
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.6468**	**.21764**	**.18764**	**1.001**	**.17457**
Stddev	.0117	.00039	.00024	.001	.00091
%RSD	.13501	.17888	.12923	.0743	.52176
#1	8.6385	.21792	.18781	1.001	.17392
#2	8.6550	.21737	.18746	1.002	.17521
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-2-B MS Acquired: 6/14/2022 1:30:05 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.18215**	**.16998**	**.17048**	**.9999**
Stddev	.00085	.00058	.00070	.0006
%RSD	.46847	.34224	.41101	.0560
#1	.18275	.16957	.17097	1.000
#2	.18154	.17039	.16998	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3288.2**	**2524.9**	**24582.**	**3558.5**
Stddev	4.5	3.5	77.	16.8
%RSD	.13589	.14057	.31194	.47077
#1	3285.0	2522.4	24636.	3546.6
#2	3291.4	2527.5	24527.	3570.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.82%	104.68%	104.43%	102.93%
Range				

Sample Name: 480-198814-A-2-C MSD Acquired: 6/14/2022 1:33:48 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04323**	**9.0983**	**.17667**	**.19333**	**.19483**
Stddev	.00157	.0181	.00093	.00041	.00030
%RSD	3.6379	.19879	.52471	.21395	.15348
#1	.04434	9.1111	.17601	.19304	.19504
#2	.04212	9.0855	.17732	.19363	.19461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18634**	**8.6005**	**.17383**	**-.0437**	**.17230**
Stddev	.00036	.0335	.00016	.0251	.00063
%RSD	.19081	.38904	.09088	57.46	.36293
#1	.18659	8.6242	.17394	-.0614	.17185
#2	.18609	8.5769	.17372	-.0259	.17274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18706**	**.18040**	**8.6853**	**9.1372**	**.18298**
Stddev	.00098	.00044	.0355	.0735	.00191
%RSD	.52598	.24487	.40897	.80433	1.0442
#1	.18775	.18071	8.7104	9.1892	.18163
#2	.18636	.18009	8.6601	9.0852	.18433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-2-C MSD Acquired: 6/14/2022 1:33:48 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.1256**	**.18388**	**.19039**	**8.9435**	**.17105**
Stddev	.0213	.00035	.00057	.0324	.00007
%RSD	.23356	.18981	.30068	.36219	.04193
#1	9.1406	.18413	.19080	8.9664	.17110
#2	9.1105	.18364	.18999	8.9206	.17100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.77**	**.17024**	**8.7721**	**.18114**	**.17886**
Stddev	.00	.00076	.0187	.00064	.00202
%RSD	.0046	.44610	.21364	.35132	1.1282
#1	24.77	.17078	8.7854	.18159	.18028
#2	24.77	.16971	8.7589	.18069	.17743
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.5754**	**.21618**	**.18946**	**.9998**	**.17496**
Stddev	.0388	.00006	.00068	.0015	.00032
%RSD	.45292	.02981	.35707	.1458	.18419
#1	8.6029	.21614	.18994	.9988	.17473
#2	8.5479	.21623	.18898	1.001	.17519
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-2-C MSD Acquired: 6/14/2022 1:33:48 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.18279**	**.16941**	**.16999**	**1.0000**
Stddev	.00087	.00082	.00138	.0007
%RSD	.47392	.48593	.81196	.0693
#1	.18340	.16999	.17096	1.000
#2	.18217	.16883	.16901	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3283.6**	**2518.0**	**24481.**	**3544.8**
Stddev	3.6	2.5	9.	19.7
%RSD	.11010	.10069	.03501	.55703
#1	3286.2	2519.7	24475.	3530.8
#2	3281.1	2516.2	24487.	3558.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.68%	104.39%	104.00%	102.53%
Range				

Sample Name: 480-198814-A-3-A Acquired: 6/14/2022 1:37:31 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.02078**	**-.00110**	**.11742**	**.05002**
Stddev	.00026	.01916	.00131	.00023	.00010
%RSD	81.079	92.185	119.08	.19188	.20740
#1	.00050	.00723	-.00203	.11758	.05009
#2	.00014	.03432	-.00017	.11726	.04994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**18.320**	**.00012**	**-.0438**	**-.00008**
Stddev	.00004	.171	.00014	.0063	.00002
%RSD	104.52	.93585	109.79	14.35	24.644
#1	.00001	18.442	.00022	-.0483	-.00007
#2	.00006	18.199	.00003	-.0394	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.00499**	**.09039**	**10.087**	**.01632**
Stddev	.00016	.00027	.00245	.085	.00121
%RSD	48.999	5.3992	2.7140	.83842	7.4245
#1	.00044	.00518	.09213	10.147	.01717
#2	.00021	.00480	.08866	10.027	.01546
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-3-A Acquired: 6/14/2022 1:37:31 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.5448**	**.03130**	**.00004**	**29.556**	**.00007**
Stddev	.0030	.00003	.00013	.220	.00001
%RSD	.05390	.10525	334.48	.74279	8.3526
#1	5.5426	.03132	-.00005	29.711	.00007
#2	5.5469	.03128	.00013	29.401	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.00106**	**3.8643**	**-.00161**	**.00264**
Stddev	.00	.00023	.0065	.00014	.00137
%RSD	.0039	22.017	.16728	8.4788	51.930
#1	25.05	.00123	3.8688	-.00152	.00361
#2	25.05	.00090	3.8597	-.00171	.00167
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.057**	**-.00054**	**.37035**	**.9989**	**.00003**
Stddev	.087	.00019	.00332	.0003	.00000
%RSD	.78300	35.373	.89521	.0292	2.3835
#1	11.119	-.00068	.37269	.9991	.00004
#2	10.996	-.00041	.36800	.9987	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-3-A Acquired: 6/14/2022 1:37:31 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00023**	**-.00025**	**-.00147**	**.9989**
Stddev	.00022	.00016	.00009	.0002
%RSD	97.590	62.578	5.9348	.0182
#1	-.00038	-.00036	-.00141	.9988
#2	-.00007	-.00014	-.00154	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3218.5**	**2469.4**	**23860.**	**3437.0**
Stddev	5.5	1.7	73.	15.6
%RSD	.16952	.06762	.30723	.45403
#1	3222.4	2468.2	23912.	3425.9
#2	3214.7	2470.6	23808.	3448.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.686%	102.38%	101.36%	99.412%
Range				

Sample Name: 480-198814-A-4-A Acquired: 6/14/2022 1:41:23 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.05698**	**-.00054**	**.00881**	**.11270**
Stddev	.00003	.03360	.00261	.00043	.00005
%RSD	34.863	58.969	481.46	4.8559	.04040
#1	-.00009	.08074	-.00238	.00851	.11266
#2	-.00006	.03322	.00130	.00911	.11273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**1.5021**	**.00002**	**-.0118**	**.00617**
Stddev	.00010	.0127	.00019	.0283	.00012
%RSD	31.882	.84772	809.48	240.6	1.9330
#1	.00024	1.5111	-.00011	.0082	.00625
#2	.00038	1.4931	.00015	-.0317	.00608
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00565**	**-.00225**	**2.5952**	**.00481**
Stddev	.00042	.00020	.00076	.0210	.00060
%RSD	1830.3	3.6243	33.847	.80794	12.422
#1	-.00032	.00551	-.00171	2.6101	.00438
#2	.00027	.00580	-.00279	2.5804	.00523
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-4-A Acquired: 6/14/2022 1:41:23 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5339**	**.05828**	**.00004**	**3.8809**	**.00263**
Stddev	.0096	.00008	.00015	.0327	.00019
%RSD	.62551	.14187	421.92	.84168	7.0755
#1	1.5407	.05834	.00014	3.9040	.00250
#2	1.5271	.05822	-.00007	3.8578	.00276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00105**	**1.2283**	**-.00230**	**.00004**
Stddev	.00	.00052	.0060	.00039	.00153
%RSD	.0052	49.504	.48494	16.796	4027.8
#1	25.02	.00141	1.2325	-.00258	.00112
#2	25.02	.00068	1.2241	-.00203	-.00105
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8429**	**-.00065**	**.02562**	**.9915**	**.00010**
Stddev	.0230	.00065	.00016	.0087	.00004
%RSD	.47450	98.715	.63912	.8731	44.238
#1	4.8591	-.00020	.02573	.9976	.00012
#2	4.8266	-.00111	.02550	.9854	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-4-A Acquired: 6/14/2022 1:41:23 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00039**	**-.00016**	**.00444**	**.9992**
Stddev	.00134	.00009	.00034	.0002
%RSD	341.48	55.237	7.7321	.0194
#1	.00056	-.00022	.00468	.9993
#2	-.00134	-.00010	.00419	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3455.1**	**2565.3**	**25110.**	**3650.5**
Stddev	.7	2.2	154.	8.3
%RSD	.02062	.08479	.61375	.22797
#1	3454.6	2563.7	25001.	3656.3
#2	3455.6	2566.8	25219.	3644.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	105.94%	106.36%	106.67%	105.59%
Range				

Sample Name: 480-198814-A-5-A Acquired: 6/14/2022 1:45:16 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.05112**	**-.00129**	**.00683**	**.08762**
Stddev	.00048	.00251	.00016	.00004	.00007
%RSD	516.56	4.9117	12.564	.60767	.08410
#1	.00025	.05289	-.00117	.00680	.08757
#2	-.00044	.04934	-.00140	.00686	.08767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**1.1754**	**.00012**	**-.0066**	**.00480**
Stddev	.00007	.0063	.00004	.0453	.00007
%RSD	23.366	.53452	30.659	687.5	1.4623
#1	.00024	1.1709	.00010	.0254	.00475
#2	.00034	1.1798	.00015	-.0386	.00485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00537**	**-.00799**	**2.0172**	**.00360**
Stddev	.00023	.00040	.00066	.0293	.00006
%RSD	201.32	7.4581	8.2788	1.4534	1.7481
#1	-.00028	.00565	-.00752	1.9965	.00356
#2	.00005	.00509	-.00846	2.0380	.00364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-5-A Acquired: 6/14/2022 1:45:16 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2094**	**.04546**	**-.00009**	**2.9941**	**.00225**
Stddev	.0041	.00038	.00014	.0068	.00001
%RSD	.33541	.83701	161.98	.22720	.54817
#1	1.2065	.04519	.00001	2.9989	.00226
#2	1.2123	.04573	-.00018	2.9893	.00224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00018**	**.93848**	**-.00014**	**.00096**
Stddev	.00	.00070	.00818	.00020	.00033
%RSD	.0003	385.84	.87160	140.02	34.253
#1	25.02	.00031	.94427	-.00000	.00073
#2	25.02	-.00068	.93270	-.00028	.00120
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.7780**	**-.00037**	**.01961**	**1.000**	**-.00029**
Stddev	.0118	.00007	.00019	.003	.00021
%RSD	.31124	18.225	.98783	.2821	74.208
#1	3.7697	-.00042	.01947	1.002	-.00014
#2	3.7863	-.00032	.01975	.9982	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-5-A Acquired: 6/14/2022 1:45:16 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00072**	**.00001**	**.00309**	**.9994**
Stddev	.00167	.00001	.00043	.0000
%RSD	233.04	46.994	13.874	.0040
#1	-.00047	.00001	.00340	.9994
#2	.00190	.00002	.00279	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3434.6**	**2552.3**	**24720.**	**3485.3**
Stddev	7.8	1.2	35.	11.9
%RSD	.22677	.04649	.14228	.34177
#1	3440.1	2551.5	24745.	3493.7
#2	3429.1	2553.2	24695.	3476.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	105.31%	105.82%	105.02%	100.81%
Range				

Sample Name: CCV-7018483 Acquired: 6/14/2022 1:49:12 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.91863**	**46.647**	**.96840**	**1.0000**	**.96850**
Stddev	.00178	.042	.00060	.0031	.00248
%RSD	.19368	.08938	.06225	.31180	.25605
#1	.91737	46.617	.96798	.99780	.97025
#2	.91989	46.676	.96883	1.0022	.96674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97597**	**47.073**	**.95645**	**.9545**	**.94603**
Stddev	.00000	.165	.00137	.0128	.00074
%RSD	.00032	.35041	.14362	1.345	.07857
#1	.97597	46.956	.95548	.9636	.94551
#2	.97598	47.189	.95742	.9454	.94656
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0275**	**.94041**	**46.787**	**48.792**	**.94397**
Stddev	.0016	.00135	.029	.032	.00123
%RSD	.15328	.14401	.06161	.06624	.13071
#1	1.0264	.93946	46.767	48.815	.94309
#2	1.0286	.94137	46.807	48.769	.94484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/14/2022 1:49:12 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.298**	**.99650**	**1.0062**	**47.919**	**.96514**
Stddev	.151	.00027	.0003	.018	.00035
%RSD	.30588	.02706	.03377	.03846	.03634
#1	49.192	.99631	1.0060	47.906	.96489
#2	49.405	.99669	1.0065	47.932	.96538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.89**	**.94640**	**23.289**	**.94445**	**.98754**
Stddev	.02	.00323	.060	.00126	.00005
%RSD	.0559	.34083	.25798	.13325	.00515
#1	36.88	.94412	23.246	.94534	.98757
#2	36.91	.94868	23.331	.94356	.98750
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.1757**	**.93877**	**.94554**	**1.462**	**.94121**
Stddev	.0461	.00040	.00142	.003	.00260
%RSD	.50255	.04241	.15045	.1992	.27646
#1	9.1431	.93849	.94453	1.464	.93937
#2	9.2083	.93905	.94654	1.460	.94305
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/14/2022 1:49:12 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0023**	**.93588**	**.98427**	**1.501**
Stddev	.0039	.00183	.00152	.000
%RSD	.38753	.19592	.15442	.0063
#1	.99957	.93718	.98319	1.501
#2	1.0051	.93458	.98534	1.501
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2947.0**	**2420.6**	**22734.**	**3348.2**
Stddev	1.3	2.2	71.	18.0
%RSD	.04362	.09008	.31043	.53665
#1	2947.9	2422.1	22784.	3360.9
#2	2946.1	2419.0	22684.	3335.5

Sample Name: CCB-7026764 Acquired: 6/14/2022 1:52:53 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**-.00124**	**-.00086**	**-.00016**	**.00001**
Stddev	.00035	.00767	.00039	.00015	.00002
%RSD	55.871	619.63	45.644	96.173	214.01
#1	-.00037	-.00666	-.00114	-.00005	-.00001
#2	-.00086	.00418	-.00058	-.00026	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.00390**	**-.00009**	**.0044**	**-.00005**
Stddev	.00003	.00009	.00003	.0269	.00001
%RSD	55.595	2.3436	29.049	616.9	18.265
#1	-.00008	-.00396	-.00011	.0234	-.00004
#2	-.00003	-.00383	-.00007	-.0147	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.00433**	**-.01482**	**.03422**	**.00223**
Stddev	.00043	.00045	.00318	.01882	.00019
%RSD	91.683	10.352	21.446	55.013	8.6120
#1	-.00077	.00465	-.01706	.02091	.00209
#2	-.00016	.00401	-.01257	.04753	.00237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 1:52:53 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00078**	**-.00010**	**.00024**	**-.01301**	**.00006**
Stddev	.00118	.00002	.00010	.00514	.00006
%RSD	152.24	16.812	44.499	39.551	89.952
#1	-.00006	-.00011	.00031	-.00937	.00010
#2	.00161	-.00009	.00016	-.01664	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00054**	**-.02274**	**-.00088**	**.00214**
Stddev	.00	.00055	.00157	.00056	.00466
%RSD	.0020	102.38	6.8944	63.182	218.00
#1	25.02	-.00093	-.02384	-.00049	-.00116
#2	25.02	-.00015	-.02163	-.00128	.00544
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.09039**	**-.00029**	**.00017**	**.9975**	**.00021**
Stddev	.00241	.00013	.00011	.0030	.00008
%RSD	2.6636	47.152	66.737	.3010	40.860
#1	-.08869	-.00038	.00024	.9997	.00027
#2	-.09210	-.00019	.00009	.9954	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 1:52:53 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.00032**	**-.00230**	**.9991**
Stddev	.00040	.00016	.00003	.0002
%RSD	413.69	50.412	1.2854	.0233
#1	-.00038	-.00043	-.00232	.9993
#2	.00019	-.00021	-.00228	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3390.7**	**2496.5**	**24220.**	**3432.3**
Stddev	3.2	.0	102.	36.3
%RSD	.09368	.00043	.42071	1.0571
#1	3388.5	2496.5	24292.	3406.7
#2	3393.0	2496.5	24148.	3458.0

Sample Name: CCVL-7028546 Acquired: 6/14/2022 1:56:51 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00541**	**.19273**	**.01381**	**.01858**	**.00200**
Stddev	.00030	.02081	.00030	.00007	.00001
%RSD	5.6153	10.800	2.1914	.35671	.40390
#1	.00562	.20745	.01402	.01854	.00200
#2	.00519	.17801	.01360	.01863	.00201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00197**	**.46248**	**.00184**	**.0154**	**.00353**
Stddev	.00003	.00034	.00012	.0050	.00008
%RSD	1.4144	.07361	6.2961	32.15	2.3159
#1	.00199	.46224	.00176	.0189	.00348
#2	.00195	.46272	.00193	.0119	.00359
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00408**	W **.01414**	W **.03452**	**.43795**	**.02707**
Stddev	.00018	.00042	.00105	.02795	.00010
%RSD	4.4215	2.9573	3.0351	6.3822	.36975
#1	.00420	.01384	.03526	.45772	.02700
#2	.00395	.01443	.03378	.41819	.02714
Check ?	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Pass
Value		.01000	.05000		
Range		30.000%	-30.000%		

Sample Name: CCVL-7028546 Acquired: 6/14/2022 1:56:51 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19270**	**.00306**	**.01011**	**.87195**	**.00884**
Stddev	.00030	.00000	.00002	.01636	.00005
%RSD	.15683	.09260	.20997	1.8768	.53226
#1	.19292	.00306	.01012	.88352	.00880
#2	.19249	.00306	.01009	.86038	.00887
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00885**	**.15347**	**.01770**	**.02417**
Stddev	.00	.00051	.00061	.00184	.00097
%RSD	.0019	5.7626	.39546	10.387	4.0190
#1	25.00	.00849	.15304	.01900	.02486
#2	25.00	.00921	.15390	.01640	.02348
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.35516**	**.00798**	**.00481**	F **.9986**	**.00440**
Stddev	.00605	.00048	.00010	.0073	.00025
%RSD	1.7022	5.9796	1.9859	.7273	5.7532
#1	.35943	.00832	.00474	.9935	.00422
#2	.35088	.00764	.00488	1.004	.00458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/14/2022 1:56:51 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02062**	**.00433**	**.00787**	F **.9987**
Stddev	.00088	.00021	.00024	.0007
%RSD	4.2538	4.9420	3.0902	.0665
#1	.02000	.00448	.00770	.9982
#2	.02124	.00418	.00804	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3390.7**	**2501.3**	**24145.**	**3389.5**
Stddev	20.3	16.1	32.	11.3
%RSD	.59922	.64190	.13359	.33279
#1	3376.4	2490.0	24168.	3381.5
#2	3405.1	2512.7	24122.	3397.5

Sample Name: 480-198814-A-6-A Acquired: 6/14/2022 2:00:46 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.06376**	**-.00099**	**.00719**	**.12928**
Stddev	.00041	.00296	.00020	.00011	.00007
%RSD	749.41	4.6487	20.464	1.5214	.05652
#1	.00034	.06166	-.00113	.00711	.12923
#2	-.00023	.06586	-.00085	.00727	.12933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**1.6911**	**.00012**	**-.0417**	**.00770**
Stddev	.00005	.0071	.00013	.0036	.00005
%RSD	15.427	.41823	108.41	8.598	.71231
#1	.00029	1.6961	.00020	-.0392	.00774
#2	.00036	1.6861	.00003	-.0443	.00766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.00454**	**-.00433**	**1.8534**	**.00366**
Stddev	.00006	.00008	.00216	.0087	.00129
%RSD	27.877	1.8243	49.758	.46722	35.228
#1	-.00018	.00448	-.00586	1.8596	.00458
#2	-.00027	.00460	-.00281	1.8473	.00275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-6-A Acquired: 6/14/2022 2:00:46 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2118**	**.26786**	**-.00026**	**11.488**	**.00315**
Stddev	.0054	.00004	.00017	.061	.00006
%RSD	.44812	.01591	65.321	.53208	1.9685
#1	1.2080	.26789	-.00039	11.532	.00311
#2	1.2156	.26783	-.00014	11.445	.00320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00173**	**.32334**	**-.00165**	**.00234**
Stddev	.00	.00072	.00239	.00013	.00208
%RSD	.0006	41.676	.73926	8.0313	89.061
#1	25.02	.00122	.32503	-.00175	.00086
#2	25.02	.00224	.32165	-.00156	.00381
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.8087**	**-.00022**	**.02168**	**1.004**	**-.00003**
Stddev	.0066	.00013	.00025	.007	.00017
%RSD	.11326	57.579	1.1447	.6790	521.00
#1	5.8040	-.00013	.02186	1.009	-.00016
#2	5.8133	-.00031	.02151	.9991	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-6-A Acquired: 6/14/2022 2:00:46 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00076**	**.00007**	**.00811**	**.9994**
Stddev	.00132	.00040	.00025	.0004
%RSD	173.69	560.21	3.0541	.0399
#1	.00170	-.00021	.00829	.9991
#2	-.00017	.00035	.00794	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3370.9**	**2542.0**	**24500.**	**3536.4**
Stddev	7.5	3.6	179.	.8
%RSD	.22310	.14330	.72910	.02276
#1	3365.6	2539.4	24626.	3537.0
#2	3376.3	2544.6	24374.	3535.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.36%	105.39%	104.08%	102.29%
Range				

Sample Name: 480-198814-A-7-A Acquired: 6/14/2022 2:04:39 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.05028**	**-.00072**	**.00680**	**.03630**
Stddev	.00050	.00252	.00158	.00055	.00009
%RSD	180.19	5.0089	219.49	8.0536	.25953
#1	-.00008	.05206	-.00184	.00719	.03624
#2	.00063	.04850	.00040	.00642	.03637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**1.3248**	**.00009**	**-.0401**	**.00112**
Stddev	.00007	.0083	.00003	.0167	.00005
%RSD	57.568	.63036	34.155	41.72	4.0509
#1	.00007	1.3189	.00007	-.0519	.00115
#2	.00017	1.3307	.00011	-.0283	.00109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00520**	**.04011**	**.93219**	**.00132**
Stddev	.00028	.00049	.00008	.02209	.00112
%RSD	130.31	9.3471	.18903	2.3692	85.023
#1	-.00041	.00554	.04005	.91657	.00211
#2	-.00002	.00486	.04016	.94780	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-7-A Acquired: 6/14/2022 2:04:39 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.89940**	**.02224**	**-.00022**	**3.5093**	**.00090**
Stddev	.00461	.00011	.00002	.0020	.00033
%RSD	.51287	.49226	9.1841	.05779	36.991
#1	.89613	.02217	-.00024	3.5079	.00066
#2	.90266	.02232	-.00021	3.5107	.00113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00054**	**.86843**	**-.00148**	**.00073**
Stddev	.00	.00017	.00893	.00022	.00083
%RSD	.0008	31.188	1.0283	14.910	113.28
#1	25.02	.00066	.86212	-.00133	.00015
#2	25.02	.00042	.87475	-.00164	.00132
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.6254**	**-.00037**	**.00980**	**.9954**	**.00008**
Stddev	.0245	.00033	.00007	.0080	.00018
%RSD	.52977	89.476	.68283	.8082	233.13
#1	4.6427	-.00014	.00976	1.001	.00021
#2	4.6081	-.00061	.00985	.9897	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-7-A Acquired: 6/14/2022 2:04:39 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00089**	**.00021**	**.00002**	**.9997**
Stddev	.00007	.00011	.00020	.0001
%RSD	7.3838	55.242	1020.0	.0105
#1	.00084	.00013	.00016	.9997
#2	.00094	.00029	-.00012	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3434.2**	**2549.2**	**24395.**	**3506.5**
Stddev	54.2	42.9	105.	10.0
%RSD	1.5779	1.6811	.43057	.28583
#1	3395.9	2518.9	24470.	3513.6
#2	3472.5	2579.5	24321.	3499.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	105.30%	105.69%	103.64%	101.42%
Range				

Sample Name: 480-198814-A-8-A Acquired: 6/14/2022 2:08:33 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.01082**	**.00536**	**.09472**	**.13306**
Stddev	.00013	.01270	.00029	.00036	.00049
%RSD	51.395	117.40	5.4576	.37657	.36583
#1	-.00034	.01980	.00556	.09498	.13272
#2	-.00016	.00184	.00515	.09447	.13341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**223.81**	**.00024**	**-.0302**	**.00654**
Stddev	.00001	1.64	.00001	.0372	.00003
%RSD	70.883	.73138	4.5337	123.2	.46969
#1	.00003	222.66	.00025	-.0565	.00657
#2	.00001	224.97	.00023	-.0039	.00652
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00548**	**8.6590**	**16.638**	**.00244**
Stddev	.00007	.00050	.0260	.021	.00304
%RSD	51.588	9.1483	.30002	.12829	124.58
#1	.00018	.00513	8.6406	16.653	.00029
#2	.00009	.00584	8.6774	16.623	.00459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-8-A Acquired: 6/14/2022 2:08:33 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**39.938**	**.70614**	**-.00029**	**57.662**	**.01177**
Stddev	.211	.00175	.00023	.019	.00036
%RSD	.52730	.24715	78.692	.03222	3.0409
#1	39.789	.70490	-.00013	57.649	.01202
#2	40.087	.70737	-.00045	57.675	.01152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00015**	F **130.96**	**.00039**	**.00122**
Stddev	.00	.00062	.13	.00234	.00005
%RSD	.0027	421.84	.10154	605.38	4.4793
#1	25.02	-.00058	130.87	.00204	.00126
#2	25.02	.00029	131.06	-.00127	.00118
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.0315**	**-.00076**	**.68276**	**1.002**	**.00081**
Stddev	.0080	.00037	.00240	.004	.00017
%RSD	.19881	48.732	.35087	.4104	21.088
#1	4.0371	-.00050	.68445	.9990	.00093
#2	4.0258	-.00102	.68106	1.005	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-8-A Acquired: 6/14/2022 2:08:33 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00153**	**-.00041**	**.01860**	**.9988**
Stddev	.00120	.00025	.00015	.0018
%RSD	78.433	62.130	.81397	.1819
#1	-.00238	-.00058	.01871	.9975
#2	-.00068	-.00023	.01850	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2944.1**	**2377.7**	**22923.**	**3450.9**
Stddev	5.9	2.3	116.	21.2
%RSD	.20127	.09538	.50429	.61414
#1	2948.3	2379.3	23005.	3465.9
#2	2939.9	2376.1	22842.	3435.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.272%	98.580%	97.383%	99.815%
Range				

Sample Name: 480-198814-A-9-A Acquired: 6/14/2022 2:12:30 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**-.00886**	**-.00152**	**.13822**	**.02908**
Stddev	.00073	.00547	.00074	.00047	.00004
%RSD	1028.3	61.773	49.128	.33963	.12342
#1	-.00059	-.00499	-.00099	.13789	.02906
#2	.00045	-.01273	-.00204	.13855	.02911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**5.8056**	**.00006**	**-.0436**	**-.00009**
Stddev	.00001	.0200	.00004	.0103	.00001
%RSD	21.737	.34426	67.438	23.70	14.624
#1	.00004	5.7914	.00003	-.0363	-.00008
#2	.00005	5.8197	.00008	-.0509	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00454**	**.01813**	**10.662**	**.00663**
Stddev	.00009	.00017	.00032	.000	.00013
%RSD	49.697	3.8541	1.7392	.00353	2.0062
#1	.00012	.00441	.01791	10.662	.00673
#2	.00025	.00466	.01836	10.662	.00654
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-9-A Acquired: 6/14/2022 2:12:30 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.3033**	**.01032**	**-.00016**	**47.187**	**-.00008**
Stddev	.0004	.00008	.00023	.017	.00002
%RSD	.01892	.78169	150.52	.03646	28.208
#1	2.3036	.01038	.00001	47.199	-.00010
#2	2.3030	.01027	-.00032	47.175	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.00132**	**2.8279**	**-.00075**	**.00221**
Stddev	.00	.00090	.0068	.00131	.00223
%RSD	.0012	68.547	.24203	174.89	101.06
#1	25.05	.00195	2.8328	.00018	.00379
#2	25.05	.00068	2.8231	-.00167	.00063
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7721**	**-.00017**	**.09094**	**.9925**	**-.00037**
Stddev	.0031	.00008	.00039	.0021	.00005
%RSD	.03158	45.637	.42485	.2088	13.598
#1	9.7742	-.00023	.09122	.9940	-.00034
#2	9.7699	-.00012	.09067	.9911	-.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-9-A Acquired: 6/14/2022 2:12:30 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00056**	**-.00014**	**-.00162**	**.9992**
Stddev	.00008	.00009	.00058	.0006
%RSD	13.810	61.760	35.533	.0596
#1	-.00062	-.00008	-.00203	.9996
#2	-.00051	-.00021	-.00122	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3208.1**	**2481.9**	**23693.**	**3426.6**
Stddev	10.7	4.9	39.	1.2
%RSD	.33414	.19884	.16442	.03414
#1	3200.5	2478.4	23720.	3427.4
#2	3215.6	2485.4	23665.	3425.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.365%	102.90%	100.65%	99.113%
Range				

Sample Name: 480-198814-A-10-A Acquired: 6/14/2022 2:16:21 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00850**	**-.00067**	**.11454**	**.04896**
Stddev	.00021	.00525	.00133	.00011	.00003
%RSD	113.81	61.697	197.68	.09955	.06633
#1	-.00004	-.01222	-.00161	.11462	.04894
#2	-.00033	-.00479	.00027	.11446	.04898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**17.777**	**.00015**	**-.0504**	**-.00001**
Stddev	.00001	.021	.00002	.0093	.00005
%RSD	41.928	.11826	16.085	18.46	612.20
#1	-.00004	17.762	.00013	-.0438	-.00005
#2	-.00002	17.792	.00017	-.0570	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00432**	**.08080**	**9.5947**	**.01439**
Stddev	.00071	.00025	.00152	.0391	.00021
%RSD	1908.1	5.8146	1.8842	.40797	1.4923
#1	.00047	.00415	.07973	9.6224	.01423
#2	-.00054	.00450	.08188	9.5670	.01454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-10-A Acquired: 6/14/2022 2:16:21 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.5754**	**.03109**	**-.00004**	**28.611**	**.00026**
Stddev	.0067	.00019	.00031	.025	.00001
%RSD	.12105	.62492	880.26	.08840	5.3802
#1	5.5706	.03095	.00019	28.629	.00027
#2	5.5802	.03123	-.00026	28.593	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.00122**	**3.8366**	**-.00203**	**-.00122**
Stddev	.00	.00157	.0013	.00112	.00005
%RSD	.0020	129.44	.03411	55.012	3.9620
#1	25.05	.00233	3.8375	-.00124	-.00118
#2	25.05	.00010	3.8357	-.00283	-.00125
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.773**	**-.00063**	**.33795**	**1.002**	**-.00033**
Stddev	.033	.00017	.00051	.005	.00028
%RSD	.30519	26.694	.15015	.4672	85.548
#1	10.796	-.00075	.33831	.9988	-.00053
#2	10.750	-.00052	.33759	1.005	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-10-A Acquired: 6/14/2022 2:16:21 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00118**	**.00003**	**-.00143**	**1.0000**
Stddev	.00006	.00028	.00048	.0003
%RSD	4.7345	841.25	33.501	.0344
#1	-.00122	.00023	-.00176	.9997
#2	-.00114	-.00017	-.00109	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3264.2**	**2510.1**	**23959.**	**3517.8**
Stddev	1.2	.1	52.	21.2
%RSD	.03530	.00226	.21712	.60265
#1	3263.4	2510.0	23922.	3532.7
#2	3265.0	2510.1	23996.	3502.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.09%	104.07%	101.78%	101.75%
Range				

Sample Name: 480-198814-A-11-A Acquired: 6/14/2022 2:20:12 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00061**	**.02993**	**-.00132**	**.02322**	**.08993**
Stddev	.00054	.00550	.00047	.00005	.00007
%RSD	87.714	18.388	35.988	.21462	.07592
#1	-.00023	.03382	-.00098	.02326	.08998
#2	-.00099	.02603	-.00165	.02319	.08988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**21.481**	**.00011**	**-.0642**	**.02591**
Stddev	.00002	.014	.00010	.0085	.00005
%RSD	48.442	.06626	91.941	13.19	.18784
#1	.00005	21.470	.00017	-.0702	.02588
#2	.00002	21.491	.00004	-.0582	.02595
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00498**	**2.2256**	**2.7610**	**.00136**
Stddev	.00034	.00014	.0038	.0182	.00073
%RSD	372.64	2.7532	.17096	.65801	53.472
#1	-.00033	.00488	2.2283	2.7481	.00188
#2	.00015	.00508	2.2230	2.7738	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-11-A Acquired: 6/14/2022 2:20:12 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5146**	**1.0079**	**-.00028**	**13.412**	**.00138**
Stddev	.0140	.0016	.00007	.027	.00010
%RSD	.31104	.15451	25.778	.20428	7.2346
#1	4.5047	1.0068	-.00033	13.431	.00145
#2	4.5245	1.0090	-.00023	13.392	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00105**	**14.590**	**-.00251**	**.00117**
Stddev	.00	.00084	.005	.00016	.00258
%RSD	.0037	79.840	.03526	6.5212	220.78
#1	25.02	.00165	14.586	-.00263	.00299
#2	25.02	.00046	14.594	-.00240	-.00066
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.2087**	**-.00027**	**.11923**	**.9975**	**.00023**
Stddev	.0180	.00013	.00009	.0014	.00037
%RSD	.42735	47.361	.07239	.1373	158.99
#1	4.2214	-.00018	.11917	.9965	.00049
#2	4.1960	-.00036	.11929	.9985	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-11-A Acquired: 6/14/2022 2:20:12 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00002**	**.00294**	**.9990**
Stddev	.00027	.00003	.00027	.0015
%RSD	105.03	133.67	9.3055	.1477
#1	-.00046	.00004	.00313	1.000
#2	-.00007	.00000	.00275	.9980
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3321.1**	**2525.2**	**24486.**	**3559.2**
Stddev	3.3	5.4	79.	1.0
%RSD	.09973	.21418	.32347	.02911
#1	3323.4	2529.1	24542.	3558.5
#2	3318.7	2521.4	24430.	3560.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.83%	104.70%	104.02%	102.95%
Range				

Sample Name: 480-198814-A-12-A Acquired: 6/14/2022 2:24:02 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**-.01178**	**-.00174**	**.15317**	**.03217**
Stddev	.00005	.03114	.00166	.00073	.00006
%RSD	16.552	264.34	95.354	.47550	.17525
#1	-.00036	.01024	-.00057	.15266	.03221
#2	-.00028	-.03380	-.00291	.15369	.03213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**6.4116**	**.00008**	**-.0322**	**-.00006**
Stddev	.00001	.0364	.00019	.0314	.00002
%RSD	56.450	.56777	248.11	97.46	35.795
#1	.00002	6.4374	-.00006	-.0100	-.00008
#2	.00001	6.3859	.00021	-.0545	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.00372**	**-.00199**	**11.858**	**.00627**
Stddev	.00016	.00030	.00181	.070	.00060
%RSD	38.648	8.1806	91.193	.58686	9.5604
#1	.00029	.00350	-.00327	11.907	.00585
#2	.00052	.00393	-.00071	11.809	.00670
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-12-A Acquired: 6/14/2022 2:24:02 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5359**	**.01136**	**-.00004**	**52.324**	**.00010**
Stddev	.0030	.00007	.00008	.318	.00020
%RSD	.11819	.65132	213.58	.60687	207.86
#1	2.5337	.01131	.00002	52.549	.00024
#2	2.5380	.01141	-.00010	52.099	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.06**	**.00167**	**3.1197**	**-.00084**	**.00114**
Stddev	.00	.00019	.0227	.00016	.00118
%RSD	.0005	11.273	.72721	19.732	103.48
#1	25.06	.00154	3.1036	-.00072	.00031
#2	25.06	.00181	3.1357	-.00095	.00197
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.851**	**-.00060**	**.10174**	**.9890**	**-.00030**
Stddev	.112	.00004	.00085	.0060	.00001
%RSD	1.0307	7.2636	.83549	.6117	4.0339
#1	10.930	-.00057	.10234	.9933	-.00030
#2	10.772	-.00063	.10114	.9848	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-12-A Acquired: 6/14/2022 2:24:02 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00037**	**-.00012**	**-.00145**	**.9990**
Stddev	.00013	.00020	.00041	.0011
%RSD	35.761	161.30	28.208	.1052
#1	-.00047	-.00026	-.00174	.9983
#2	-.00028	.00002	-.00116	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3202.6**	**2479.7**	**23679.**	**3442.8**
Stddev	67.8	50.0	75.	2.8
%RSD	2.1158	2.0173	.31487	.08234
#1	3154.7	2444.4	23731.	3440.7
#2	3250.5	2515.1	23626.	3444.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.197%	102.81%	100.59%	99.580%
Range				

Sample Name: 480-198814-A-13-A Acquired: 6/14/2022 2:27:53 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**.00594**	**-.00038**	**.13066**	**.02752**
Stddev	.00063	.01611	.00029	.00027	.00013
%RSD	119.42	271.41	77.301	.20730	.47252
#1	-.00008	.01733	-.00017	.13085	.02761
#2	-.00097	-.00546	-.00058	.13047	.02742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**5.4783**	**.00018**	**-.0168**	**-.00007**
Stddev	.00002	.0047	.00008	.0159	.00013
%RSD	24.994	.08626	46.263	94.83	170.47
#1	.00007	5.4817	.00012	-.0280	.00002
#2	.00005	5.4750	.00024	-.0055	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.00520**	**.01278**	**10.054**	**.00623**
Stddev	.00012	.00036	.00195	.003	.00006
%RSD	39.333	6.9305	15.255	.03408	.97500
#1	-.00039	.00495	.01416	10.057	.00627
#2	-.00022	.00546	.01140	10.052	.00618
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-13-A Acquired: 6/14/2022 2:27:53 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.1942**	**.00974**	**-.00029**	**44.523**	**.00006**
Stddev	.0001	.00005	.00007	.006	.00008
%RSD	.00298	.50956	22.683	.01388	126.92
#1	2.1942	.00971	-.00025	44.519	.00012
#2	2.1941	.00978	-.00034	44.528	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.00109**	**2.6499**	**-.00091**	**.00111**
Stddev	.00	.00026	.0107	.00017	.00177
%RSD	.0010	23.778	.40373	18.073	159.89
#1	25.05	.00091	2.6575	-.00080	-.00014
#2	25.05	.00127	2.6424	-.00103	.00235
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2083**	**-.00019**	**.08647**	**.9953**	**-.00006**
Stddev	.0049	.00026	.00007	.0051	.00039
%RSD	.05282	137.03	.08287	.5134	647.01
#1	9.2049	-.00037	.08652	.9989	-.00033
#2	9.2118	-.00001	.08641	.9917	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-13-A Acquired: 6/14/2022 2:27:53 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00077**	**.00004**	**-.00104**	**.9993**
Stddev	.00005	.00011	.00043	.0000
%RSD	6.2730	311.88	41.630	.0008
#1	-.00080	.00012	-.00134	.9993
#2	-.00073	-.00004	-.00073	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3192.6**	**2464.2**	**23514.**	**3428.3**
Stddev	7.7	6.1	44.	14.7
%RSD	.24141	.24706	.18849	.42796
#1	3198.1	2468.5	23546.	3417.9
#2	3187.2	2459.9	23483.	3438.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.892%	102.17%	99.894%	99.162%
Range				

Sample Name: 480-198814-A-14-A Acquired: 6/14/2022 2:31:45 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.03378**	**-.00180**	**.12024**	**.02517**
Stddev	.00071	.02577	.00075	.00070	.00012
%RSD	476.36	76.296	41.879	.58520	.45886
#1	-.00065	.05201	-.00233	.12074	.02525
#2	.00035	.01556	-.00127	.11974	.02508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**5.0089**	**.00013**	**-.0327**	**.00005**
Stddev	.00010	.0127	.00008	.0300	.00001
%RSD	1788.9	.25277	67.625	91.90	18.458
#1	-.00007	5.0179	.00018	-.0539	.00005
#2	.00008	5.0000	.00007	-.0114	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.00479**	**.01045**	**9.2915**	**.00490**
Stddev	.00022	.00009	.00221	.0238	.00066
%RSD	101.31	1.8876	21.165	.25657	13.524
#1	.00038	.00486	.01201	9.3083	.00443
#2	.00006	.00473	.00888	9.2746	.00537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-14-A Acquired: 6/14/2022 2:31:45 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9794**	**.00899**	**-.00010**	**40.791**	**-.00013**
Stddev	.0074	.00003	.00012	.083	.00009
%RSD	.37203	.36438	114.80	.20442	70.982
#1	1.9846	.00901	-.00002	40.850	-.00007
#2	1.9742	.00897	-.00019	40.732	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.00015**	**2.4253**	**-.00191**	**.00277**
Stddev	.00	.00058	.0020	.00216	.00149
%RSD	.0017	399.75	.08324	113.24	53.763
#1	25.05	-.00027	2.4267	-.00038	.00382
#2	25.05	.00056	2.4239	-.00343	.00171
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.3659**	**-.00001**	**.07977**	**.9981**	**.00002**
Stddev	.0052	.00031	.00035	.0028	.00015
%RSD	.06260	2341.9	.44319	.2790	875.03
#1	8.3622	-.00023	.08002	1.000	-.00009
#2	8.3696	.00021	.07952	.9961	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-14-A Acquired: 6/14/2022 2:31:45 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00029**	**-.00000**	**-.00154**	**.9986**
Stddev	.00048	.00006	.00015	.0005
%RSD	167.25	1482.5	9.4663	.0550
#1	-.00005	.00004	-.00144	.9990
#2	.00063	-.00005	-.00165	.9982
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3245.1**	**2498.2**	**24019.**	**3500.0**
Stddev	7.6	5.9	98.	.8
%RSD	.23570	.23699	.40755	.02428
#1	3239.7	2494.0	23950.	3499.4
#2	3250.5	2502.4	24088.	3500.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.500%	103.58%	102.04%	101.24%
Range				

Sample Name: CCV-7018483 Acquired: 6/14/2022 2:35:40 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.92746**	**46.660**	**.96451**	**.99543**	**.96630**
Stddev	.00159	.053	.00009	.00007	.00085
%RSD	.17112	.11429	.00958	.00699	.08798
#1	.92859	46.697	.96457	.99538	.96690
#2	.92634	46.622	.96444	.99548	.96570
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97038**	**47.025**	**.95414**	**.9492**	**.94687**
Stddev	.00175	.089	.00187	.0285	.00070
%RSD	.18035	.18919	.19604	3.006	.07358
#1	.97161	47.088	.95282	.9290	.94637
#2	.96914	46.962	.95546	.9693	.94736
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0239**	**.94595**	**46.816**	**48.508**	**.94236**
Stddev	.0019	.00302	.131	.008	.00050
%RSD	.18384	.31881	.27894	.01720	.05293
#1	1.0226	.94382	46.908	48.513	.94271
#2	1.0253	.94808	46.723	48.502	.94200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/14/2022 2:35:40 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.467**	**.99725**	**1.0007**	**47.797**	**.96427**
Stddev	.084	.00168	.0005	.058	.00064
%RSD	.17047	.16826	.05029	.12154	.06646
#1	49.408	.99607	1.0004	47.838	.96381
#2	49.527	.99844	1.0011	47.756	.96472
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.90**	**.94518**	**23.359**	**.94618**	**.98184**
Stddev	.01	.00008	.034	.00426	.00678
%RSD	.0140	.00864	.14490	.44975	.69050
#1	36.90	.94512	23.383	.94919	.98663
#2	36.91	.94524	23.335	.94317	.97704
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.1685**	**.94105**	**.94407**	**1.463**	**.94995**
Stddev	.0094	.00276	.00108	.001	.00149
%RSD	.10254	.29354	.11440	.0817	.15658
#1	9.1619	.93910	.94330	1.463	.94889
#2	9.1752	.94301	.94483	1.462	.95100
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/14/2022 2:35:40 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99846**	**.94514**	**.99289**	**1.498**
Stddev	.00119	.00176	.00195	.002
%RSD	.11903	.18628	.19625	.1109
#1	.99930	.94390	.99151	1.496
#2	.99762	.94639	.99427	1.499
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2955.6**	**2431.2**	**22794.**	**3395.9**
Stddev	14.0	11.9	93.	3.1
%RSD	.47305	.49099	.40858	.09212
#1	2965.5	2439.6	22860.	3393.7
#2	2945.7	2422.7	22728.	3398.1

Sample Name: CCB-7026764 Acquired: 6/14/2022 2:39:20 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.01033**	**-.00168**	**.00058**	**.00004**
Stddev	.00035	.01080	.00005	.00047	.00002
%RSD	3268.7	104.55	3.0077	81.160	53.678
#1	.00026	.01797	-.00165	.00091	.00003
#2	-.00024	.00269	-.00172	.00025	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00562**	**.00006**	**-.0338**	**.00016**
Stddev	.00007	.00179	.00003	.0305	.00014
%RSD	142.32	31.812	49.348	90.27	87.228
#1	.00010	-.00689	.00008	-.0122	.00006
#2	-.00000	-.00436	.00004	-.0554	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00409**	**-.01316**	**.03796**	**.00072**
Stddev	.00003	.00030	.00384	.01954	.00137
%RSD	36.572	7.4177	29.176	51.462	191.17
#1	.00006	.00388	-.01045	.02415	.00168
#2	.00010	.00431	-.01588	.05178	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 2:39:20 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00462**	**-.00010**	**.00020**	**.00133**	**.00031**
Stddev	.00197	.00004	.00022	.01504	.00052
%RSD	42.667	39.296	105.47	1129.0	166.75
#1	.00323	-.00007	.00036	.01197	.00069
#2	.00602	-.00012	.00005	-.00930	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00027**	**-.02406**	**-.00309**	**.00356**
Stddev	.00	.00110	.00078	.00167	.00294
%RSD	.0006	412.63	3.2312	54.063	82.572
#1	25.02	-.00051	-.02351	-.00191	.00148
#2	25.02	.00105	-.02461	-.00428	.00564
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.07530**	**-.00038**	**.00005**	**.9949**	**-.00025**
Stddev	.01537	.00010	.00001	.0082	.00049
%RSD	20.408	27.565	13.027	.8271	192.21
#1	-.06443	-.00030	.00005	1.001	.00009
#2	-.08617	-.00045	.00005	.9891	-.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 2:39:20 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00231**	**.00006**	**-.00238**	**.9988**
Stddev	.00010	.00009	.00014	.0005
%RSD	4.5045	146.15	5.7596	.0545
#1	.00223	-.00000	-.00228	.9992
#2	.00238	.00013	-.00248	.9984
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3365.3**	**2480.1**	**24031.**	**3357.5**
Stddev	11.1	7.5	126.	12.5
%RSD	.33074	.30169	.52460	.37167
#1	3373.1	2485.3	24120.	3366.3
#2	3357.4	2474.8	23942.	3348.6

Sample Name: CCVL-7028546 Acquired: 6/14/2022 2:43:18 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00515**	**.17146**	**.01146**	**.01832**	**.00204**
Stddev	.00006	.00256	.00109	.00009	.00003
%RSD	1.2233	1.4946	9.5301	.47051	1.6836
#1	.00519	.16965	.01069	.01838	.00206
#2	.00510	.17327	.01223	.01826	.00201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**.46483**	**.00194**	**-.0360**	**.00362**
Stddev	.00003	.00136	.00011	.0421	.00008
%RSD	1.2718	.29270	5.8443	117.0	2.0878
#1	.00207	.46386	.00202	-.0062	.00368
#2	.00211	.46579	.00186	-.0658	.00357
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00336**	W **.01463**	**.03882**	**.46482**	**.02618**
Stddev	.00003	.00029	.00123	.01621	.00224
%RSD	.98095	1.9933	3.1644	3.4865	8.5557
#1	.00333	.01484	.03968	.45336	.02776
#2	.00338	.01443	.03795	.47628	.02460
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value		.01000			
Range		30.000%			

Sample Name: CCVL-7028546 Acquired: 6/14/2022 2:43:18 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19282**	**.00310**	**.01002**	**.86723**	**.00916**
Stddev	.00082	.00010	.00001	.01518	.00006
%RSD	.42656	3.3545	.09840	1.7503	.61702
#1	.19340	.00303	.01001	.87797	.00920
#2	.19224	.00318	.01002	.85650	.00912
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00797**	**.15731**	**.01837**	**.02125**
Stddev	.00	.00020	.00041	.00036	.00278
%RSD	.0050	2.4741	.26018	1.9794	13.100
#1	25.00	.00811	.15702	.01863	.01928
#2	25.00	.00783	.15760	.01812	.02322
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.35070**	**.00805**	**.00486**	F **.9961**	**.00404**
Stddev	.01097	.00001	.00010	.0084	.00048
%RSD	3.1292	.11776	1.9992	.8418	11.990
#1	.34294	.00804	.00493	.9902	.00438
#2	.35846	.00805	.00479	1.002	.00370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/14/2022 2:43:18 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01973**	**.00416**	**.00762**	F **.9990**
Stddev	.00159	.00016	.00047	.0005
%RSD	8.0567	3.7316	6.2203	.0464
#1	.01861	.00405	.00796	.9994
#2	.02086	.00427	.00728	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3437.9**	**2541.9**	**24621.**	**3460.5**
Stddev	2.2	1.6	105.	16.9
%RSD	.06366	.06280	.42698	.48702
#1	3436.3	2540.8	24547.	3448.6
#2	3439.4	2543.1	24695.	3472.4

Sample Name: 480-198814-A-15-A Acquired: 6/14/2022 2:47:13 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.05571**	**.00038**	**.00654**	**.10978**
Stddev	.00041	.01195	.00019	.00005	.00011
%RSD	235.16	21.452	49.637	.79486	.10327
#1	.00012	.06416	.00025	.00657	.10986
#2	-.00047	.04726	.00052	.00650	.10970
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**1.4382**	**-.00002**	**-.0167**	**.00672**
Stddev	.00015	.0037	.00016	.0306	.00003
%RSD	42.881	.25482	754.46	182.8	.44626
#1	.00024	1.4408	.00009	.0049	.00670
#2	.00045	1.4356	-.00013	-.0384	.00674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00449**	**-.00853**	**1.5959**	**.00287**
Stddev	.00026	.00020	.00145	.0008	.00008
%RSD	122.58	4.4619	17.026	.05353	2.9428
#1	-.00039	.00435	-.00750	1.5953	.00281
#2	-.00003	.00463	-.00955	1.5965	.00292
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-15-A Acquired: 6/14/2022 2:47:13 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0339**	**.22693**	**-.00005**	**9.7083**	**.00293**
Stddev	.0015	.00019	.00003	.0049	.00011
%RSD	.14892	.08387	64.756	.05010	3.6254
#1	1.0350	.22680	-.00007	9.7118	.00286
#2	1.0328	.22707	-.00002	9.7049	.00301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00026**	**.27009**	**-.00206**	**-.00264**
Stddev	.00	.00050	.00094	.00164	.00295
%RSD	.0020	194.35	.34717	79.673	111.45
#1	25.02	.00061	.26943	-.00090	-.00056
#2	25.02	-.00010	.27076	-.00322	-.00473
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.0413**	**-.00030**	**.01832**	**.9968**	**-.00023**
Stddev	.0241	.00016	.00007	.0059	.00014
%RSD	.47759	55.020	.37734	.5923	62.224
#1	5.0583	-.00041	.01827	.9927	-.00032
#2	5.0243	-.00018	.01837	1.001	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198814-A-15-A Acquired: 6/14/2022 2:47:13 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00092**	**-.00013**	**.00688**	**.9992**
Stddev	.00039	.00021	.00040	.0002
%RSD	42.679	162.30	5.7916	.0245
#1	.00064	-.00028	.00660	.9990
#2	.00120	.00002	.00717	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3338.7**	**2511.9**	**24297.**	**3491.9**
Stddev	5.7	1.0	46.	5.3
%RSD	.17136	.04113	.19001	.15302
#1	3342.7	2512.6	24330.	3488.1
#2	3334.6	2511.2	24264.	3495.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.37%	104.14%	103.22%	101.00%
Range				

Sample Name: 480-198816-I-1-A Acquired: 6/14/2022 2:51:06 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.02122**	**-.00033**	**.00163**	**.05854**
Stddev	.00038	.00693	.00021	.00032	.00035
%RSD	74.803	32.672	64.015	19.957	.59518
#1	-.00024	.01632	-.00048	.00186	.05878
#2	-.00078	.02612	-.00018	.00140	.05829
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.51933**	**.00010**	**-.0380**	**.00059**
Stddev	.00006	.00148	.00007	.0036	.00004
%RSD	49.424	.28421	75.644	9.423	6.6852
#1	.00007	.51829	.00005	-.0354	.00062
#2	.00015	.52038	.00015	-.0405	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00477**	**.00664**	**-.00628**	**.80682**	**.00241**
Stddev	.00004	.00051	.00001	.00682	.00084
%RSD	.85779	7.6837	.17479	.84496	34.737
#1	.00474	.00628	-.00627	.81164	.00182
#2	.00480	.00700	-.00629	.80200	.00301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198816-I-1-A Acquired: 6/14/2022 2:51:06 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.53744**	**.00891**	**-.00012**	**36.141**	**.02364**
Stddev	.00050	.00001	.00022	.078	.00021
%RSD	.09230	.15969	190.06	.21538	.87479
#1	.53709	.00890	.00004	36.086	.02350
#2	.53779	.00892	-.00027	36.197	.02379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00088**	**.17550**	**-.00206**	**.00078**
Stddev	.00	.00053	.00161	.00023	.00088
%RSD	.0004	60.189	.91506	10.951	113.18
#1	25.01	.00125	.17437	-.00222	.00016
#2	25.01	.00050	.17664	-.00190	.00140
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.9807**	**-.00001**	**.00708**	**.9976**	**-.00002**
Stddev	.0001	.00019	.00001	.0055	.00032
%RSD	.00127	2021.7	.11673	.5512	1580.2
#1	3.9808	.00012	.00709	1.001	-.00025
#2	3.9807	-.00014	.00708	.9937	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198816-I-1-A Acquired: 6/14/2022 2:51:06 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00029**	**-.00002**	**.00050**	**.9989**
Stddev	.00034	.00019	.00077	.0004
%RSD	116.39	951.91	154.82	.0448
#1	-.00005	-.00016	.00104	.9986
#2	-.00053	.00012	-.00005	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3234.0**	**2488.5**	**23960.**	**3495.6**
Stddev	15.4	11.0	87.	6.7
%RSD	.47653	.44021	.36131	.19248
#1	3244.9	2496.3	24021.	3490.8
#2	3223.1	2480.8	23899.	3500.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.160%	103.17%	101.79%	101.11%
Range				

Sample Name: 480-198816-I-2-A Acquired: 6/14/2022 2:55:02 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.06518**	**.00261**	**.06117**	**.23879**
Stddev	.00042	.02418	.00083	.00019	.00006
%RSD	263.45	37.095	31.645	.30257	.02693
#1	.00045	.04808	.00320	.06104	.23883
#2	-.00014	.08228	.00203	.06130	.23874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**64.626**	**.00030**	**.0567**	**.08620**
Stddev	.00009	.007	.00006	.0408	.00026
%RSD	77.150	.01078	21.637	71.95	.30243
#1	.00006	64.631	.00025	.0855	.08638
#2	.00019	64.621	.00034	.0278	.08601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00394**	**5.2497**	**14.539**	**.00180**
Stddev	.00043	.00013	.0053	.023	.00042
%RSD	424.39	3.3003	.10132	.15738	23.338
#1	-.00040	.00385	5.2535	14.523	.00210
#2	.00020	.00403	5.2460	14.555	.00150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198816-I-2-A Acquired: 6/14/2022 2:55:02 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.008**	**6.4812**	**-.00046**	**71.831**	**.01968**
Stddev	.034	.0123	.00025	.319	.00008
%RSD	.18687	.18947	54.738	.44354	.40170
#1	17.985	6.4899	-.00028	72.057	.01974
#2	18.032	6.4725	-.00064	71.606	.01963
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00264**	**24.148**	**-.00017**	**.00061**
Stddev	.00	.00063	.001	.00070	.00076
%RSD	.0004	23.823	.00485	415.17	125.11
#1	25.01	.00308	24.147	.00032	.00007
#2	25.01	.00220	24.148	-.00066	.00115
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.1871**	**-.00042**	**.27935**	**.9946**	**.00049**
Stddev	.0354	.00057	.00049	.0002	.00030
%RSD	.38566	136.23	.17478	.0229	60.847
#1	9.1620	-.00082	.27970	.9944	.00070
#2	9.2121	-.00002	.27900	.9947	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198816-I-2-A Acquired: 6/14/2022 2:55:02 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00032**	**.02684**	**.9971**
Stddev	.00110	.00026	.00099	.0004
%RSD	599.67	79.905	3.7063	.0362
#1	.00059	.00050	.02613	.9968
#2	-.00096	.00014	.02754	.9973
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3059.2**	**2544.5**	**24220.**	**3615.5**
Stddev	.0	.9	9.	.3
%RSD	.00046	.03386	.03601	.00738
#1	3059.2	2545.1	24226.	3615.7
#2	3059.2	2543.9	24214.	3615.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.800%	105.50%	102.89%	104.58%
Range				

Sample Name: 480-198816-I-3-A Acquired: 6/14/2022 2:58:58 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00724**	**.00141**	**.20671**	**.10267**
Stddev	.00063	.01645	.00108	.00038	.00004
%RSD	2494.2	227.16	76.728	.18567	.03607
#1	.00042	-.00439	.00064	.20643	.10264
#2	-.00047	.01888	.00217	.20698	.10270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**17.615**	**.00006**	**-.0291**	**.01605**
Stddev	.00002	.106	.00006	.0149	.00006
%RSD	606.25	.60208	92.261	51.26	.39291
#1	-.00001	17.690	.00010	-.0396	.01601
#2	.00001	17.540	.00002	-.0185	.01610
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00065**	**.00517**	**22.736**	**13.097**	**.00109**
Stddev	.00006	.00015	.114	.064	.00100
%RSD	8.8968	2.8721	.50282	.48509	91.534
#1	.00061	.00506	22.817	13.142	.00180
#2	.00069	.00527	22.655	13.052	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198816-I-3-A Acquired: 6/14/2022 2:58:58 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.2653**	**1.6344**	**-.00048**	**38.133**	**.00110**
Stddev	.0069	.0034	.00005	.248	.00017
%RSD	.08369	.20491	10.138	.65140	15.224
#1	8.2604	1.6367	-.00045	38.309	.00098
#2	8.2702	1.6320	-.00052	37.957	.00122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00144**	**9.7931**	**.00179**	**.00144**
Stddev	.00	.00042	.0142	.00262	.00291
%RSD	.0024	28.788	.14502	146.59	201.89
#1	25.00	.00115	9.7831	.00364	-.00062
#2	25.00	.00174	9.8032	-.00007	.00350
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0320**	**-.00047**	**.11468**	**1.010**	**.00036**
Stddev	.0257	.00020	.00050	.002	.00043
%RSD	1.2636	43.169	.43864	.1863	120.83
#1	2.0501	-.00062	.11504	1.011	.00005
#2	2.0138	-.00033	.11433	1.009	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198816-I-3-A Acquired: 6/14/2022 2:58:58 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00098**	**.00043**	**-.00135**	**.9988**
Stddev	.00185	.00042	.00017	.0007
%RSD	189.10	99.086	12.486	.0710
#1	-.00229	.00072	-.00123	.9983
#2	.00033	.00013	-.00147	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3176.3**	**2474.4**	**23749.**	**3509.3**
Stddev	3.1	2.2	73.	34.1
%RSD	.09615	.08892	.30621	.97179
#1	3178.5	2475.9	23801.	3485.2
#2	3174.2	2472.8	23698.	3533.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.392%	102.59%	100.89%	101.51%
Range				

Sample Name: 480-198816-I-4-A Acquired: 6/14/2022 3:02:48 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.02201**	**.01490**	**.00409**	**.18051**
Stddev	.00050	.01922	.00007	.00023	.00024
%RSD	182.60	87.314	.49551	5.5051	.13171
#1	.00008	.00842	.01484	.00425	.18068
#2	-.00063	.03561	.01495	.00393	.18034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**7.3909**	**-.00035**	**-.0400**	**.01154**
Stddev	.00007	.0300	.00007	.0306	.00009
%RSD	166.28	.40581	19.708	76.53	.81956
#1	-.00001	7.4121	-.00040	-.0617	.01147
#2	.00009	7.3697	-.00030	-.0184	.01161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00068**	**.00354**	**125.44**	**4.1195**	**.00083**
Stddev	.00034	.00024	.35	.0207	.00004
%RSD	50.291	6.7835	.27774	.50130	4.8615
#1	.00092	.00371	125.69	4.1341	.00080
#2	.00044	.00337	125.20	4.1049	.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198816-I-4-A Acquired: 6/14/2022 3:02:48 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.1245**	**.78242**	**-.00096**	**6.0848**	**.00206**
Stddev	.0111	.00050	.00002	.0221	.00001
%RSD	.21587	.06395	1.6438	.36302	.62381
#1	5.1323	.78277	-.00097	6.1004	.00205
#2	5.1167	.78207	-.00095	6.0692	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.10**	**.00858**	**.17789**	**.02272**	**.01182**
Stddev	.00	.00014	.00055	.00034	.00146
%RSD	.0117	1.6853	.30649	1.5066	12.334
#1	25.10	.00868	.17827	.02248	.01285
#2	25.09	.00848	.17750	.02296	.01079
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2190**	**.00030**	**.09226**	**1.053**	**.00101**
Stddev	.0802	.00018	.00063	.004	.00016
%RSD	.87023	58.815	.68496	.3491	15.955
#1	9.2758	.00042	.09271	1.050	.00113
#2	9.1623	.00017	.09182	1.056	.00090
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198816-I-4-A Acquired: 6/14/2022 3:02:48 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00164**	**.00377**	**-.00003**	**1.001**
Stddev	.00048	.00004	.00005	.001
%RSD	29.185	.93753	141.12	.0601
#1	-.00130	.00379	-.00006	1.002
#2	-.00198	.00374	-.00000	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3240.1**	**2506.8**	**24161.**	**3504.9**
Stddev	2.7	4.3	63.	.7
%RSD	.08266	.17237	.26084	.02051
#1	3238.2	2503.7	24117.	3504.4
#2	3242.0	2509.8	24206.	3505.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.346%	103.93%	102.64%	101.38%
Range				

Sample Name: 480-198816-I-5-A Acquired: 6/14/2022 3:06:39 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00090**	**.01300**	**.00454**	**.11695**	**.16455**
Stddev	.00017	.01377	.00163	.00055	.00023
%RSD	18.625	105.87	35.945	.47004	.14240
#1	-.00078	.02274	.00338	.11733	.16438
#2	-.00102	.00327	.00569	.11656	.16471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**32.269**	**-.00027**	**-.0488**	**.03211**
Stddev	.00006	.057	.00022	.0114	.00023
%RSD	1733.8	.17774	81.330	23.30	.71823
#1	.00005	32.310	-.00011	-.0408	.03228
#2	-.00004	32.229	-.00042	-.0568	.03195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.00396**	**82.827**	**14.087**	**.00180**
Stddev	.00005	.00066	.006	.004	.00149
%RSD	19.445	16.608	.00712	.02752	82.753
#1	-.00024	.00349	82.832	14.085	.00285
#2	-.00032	.00442	82.823	14.090	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198816-I-5-A Acquired: 6/14/2022 3:06:39 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.585**	**1.5892**	**-.00107**	**113.30**	**.00618**
Stddev	.093	.0056	.00001	.04	.00011
%RSD	.59842	.35097	.68136	.03359	1.7766
#1	15.519	1.5852	-.00108	113.28	.00626
#2	15.651	1.5931	-.00107	113.33	.00611
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.95**	**.00528**	**27.914**	**.01453**	**.00937**
Stddev	.00	.00022	.067	.00007	.00241
%RSD	.0045	4.0952	.23948	.50305	25.737
#1	24.95	.00543	27.962	.01447	.01108
#2	24.95	.00513	27.867	.01458	.00767
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.7972**	**-.00032**	**.16574**	**1.038**	**-.00025**
Stddev	.0184	.00029	.00022	.002	.00046
%RSD	.38272	89.787	.13512	.2082	183.84
#1	4.7842	-.00012	.16589	1.040	-.00057
#2	4.8101	-.00052	.16558	1.037	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198816-I-5-A Acquired: 6/14/2022 3:06:39 Type: Unk
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00130**	**.00165**	**.00262**	**.9998**
Stddev	.00034	.00056	.00016	.0011
%RSD	26.006	33.914	6.1015	.1079
#1	-.00106	.00126	.00274	1.001
#2	-.00154	.00205	.00251	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3030.3**	**2433.1**	**23175.**	**3347.4**
Stddev	2.3	2.5	177.	6.4
%RSD	.07558	.10426	.76447	.18999
#1	3031.9	2431.3	23300.	3342.9
#2	3028.7	2434.9	23050.	3351.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.915%	100.88%	98.452%	96.820%
Range				

Sample Name: CCVL-7028546 Acquired: 6/14/2022 3:10:30 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00498**	**.17734**	**.01425**	**.01814**	**.00200**
Stddev	.00009	.03238	.00238	.00019	.00003
%RSD	1.7715	18.258	16.714	1.0306	1.3366
#1	.00504	.20024	.01256	.01801	.00202
#2	.00491	.15445	.01593	.01828	.00198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00195**	**.47187**	**.00190**	**-.0264**	**.00358**
Stddev	.00009	.00297	.00011	.0130	.00009
%RSD	4.6228	.62881	5.7976	49.04	2.6023
#1	.00202	.47396	.00198	-.0356	.00351
#2	.00189	.46977	.00182	-.0173	.00365
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00379**	W **.01360**	W **.03330**	**.45828**	**.02577**
Stddev	.00007	.00083	.00311	.03612	.00039
%RSD	1.9595	6.1156	9.3346	7.8824	1.5295
#1	.00374	.01419	.03550	.43274	.02605
#2	.00384	.01301	.03110	.48383	.02549
Check ?	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Pass
Value		.01000	.05000		
Range		30.000%	-30.000%		

Sample Name: CCVL-7028546 Acquired: 6/14/2022 3:10:30 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18886**	**.00317**	**.00962**	**.88160**	**.00902**
Stddev	.00364	.00006	.00009	.01001	.00005
%RSD	1.9278	1.9593	.95927	1.1358	.53438
#1	.19144	.00322	.00955	.87452	.00899
#2	.18629	.00313	.00968	.88868	.00906
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00877**	**.16202**	**.01644**	**.02642**
Stddev	.00	.00121	.00224	.00026	.00098
%RSD	.0035	13.837	1.3856	1.6083	3.7165
#1	25.00	.00791	.16043	.01663	.02572
#2	25.00	.00963	.16360	.01625	.02711
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.35526**	**.00857**	**.00472**	F **.9949**	**.00443**
Stddev	.01431	.00009	.00007	.0018	.00018
%RSD	4.0273	1.0224	1.4415	.1853	4.0045
#1	.34515	.00851	.00467	.9962	.00455
#2	.36538	.00863	.00477	.9936	.00430
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/14/2022 3:10:30 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01928**	**.00437**	**.00775**	F **1.000**
Stddev	.00081	.00004	.00077	.000
%RSD	4.2213	.95100	9.9223	.0100
#1	.01986	.00434	.00829	1.000
#2	.01871	.00440	.00720	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3470.8**	**2566.4**	**24473.**	**3359.4**
Stddev	2.4	3.5	563.	12.8
%RSD	.06838	.13638	2.3025	.37974
#1	3469.1	2564.0	24074.	3350.4
#2	3472.5	2568.9	24871.	3368.4

Sample Name: CCV-7018483 Acquired: 6/14/2022 3:14:26 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93005**	**46.860**	**.96978**	**.99964**	**.96822**
Stddev	.00325	.049	.00204	.00064	.00109
%RSD	.34965	.10424	.21063	.06384	.11284
#1	.92775	46.826	.97123	.99919	.96899
#2	.93235	46.895	.96834	1.0001	.96745
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97170**	**47.209**	**.95827**	**.9715**	**.94848**
Stddev	.00161	.070	.00102	.0286	.00199
%RSD	.16580	.14931	.10658	2.942	.21026
#1	.97056	47.159	.95899	.9513	.94989
#2	.97284	47.259	.95755	.9917	.94707
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0191**	**.94400**	**47.037**	**48.344**	**.94338**
Stddev	.0006	.00153	.016	.003	.00275
%RSD	.05404	.16227	.03349	.00610	.29201
#1	1.0195	.94291	47.026	48.347	.94532
#2	1.0187	.94508	47.048	48.342	.94143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/14/2022 3:14:26 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.356**	**.99502**	**1.0025**	**47.814**	**.96430**
Stddev	.194	.00092	.0008	.020	.00229
%RSD	.39309	.09242	.08390	.04155	.23775
#1	49.218	.99437	1.0019	47.828	.96592
#2	49.493	.99567	1.0031	47.800	.96268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.95**	**.94789**	**23.452**	**.94924**	**.99071**
Stddev	.03	.00042	.046	.00512	.00041
%RSD	.0725	.04425	.19578	.53895	.04152
#1	36.96	.94760	23.485	.95286	.99100
#2	36.93	.94819	23.420	.94563	.99042
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.1938**	**.94212**	**.94672**	**1.470**	**.95037**
Stddev	.0513	.00372	.00091	.006	.00143
%RSD	.55799	.39435	.09561	.4227	.15011
#1	9.1575	.94475	.94736	1.466	.94936
#2	9.2301	.93949	.94608	1.474	.95138
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7018483 Acquired: 6/14/2022 3:14:26 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99982**	**.94492**	**.98999**	**1.500**
Stddev	.00013	.00309	.00074	.003
%RSD	.01263	.32702	.07437	.1802
#1	.99973	.94273	.98947	1.498
#2	.99991	.94710	.99051	1.501
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2961.4**	**2430.6**	**22836.**	**3407.0**
Stddev	1.4	.1	2.	36.1
%RSD	.04672	.00346	.00689	1.0595
#1	2960.4	2430.6	22837.	3432.5
#2	2962.4	2430.7	22835.	3381.4

Sample Name: CCB-7026764 Acquired: 6/14/2022 3:18:07 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00104**	**-.02141**	**-.00126**	**-.00007**	**-.00000**
Stddev	.00085	.04853	.00225	.00084	.00006
%RSD	81.886	226.71	177.74	1228.9	1708.6
#1	-.00044	.01291	.00032	-.00066	-.00004
#2	-.00164	-.05572	-.00285	.00052	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00370**	**-.00000**	**-.0428**	**.00011**
Stddev	.00002	.00023	.00020	.0439	.00007
%RSD	212.49	6.2868	4257.3	102.4	61.467
#1	.00003	-.00386	-.00014	-.0118	.00006
#2	-.00001	-.00354	.00013	-.0739	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.00441**	**-.01405**	**.04766**	**.00033**
Stddev	.00004	.00012	.00077	.00025	.00002
%RSD	18.186	2.8002	5.4961	.51761	6.7722
#1	-.00021	.00432	-.01460	.04784	.00034
#2	-.00027	.00449	-.01351	.04749	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 3:18:07 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**.00002**	**.00024**	**.00101**	**.00008**
Stddev	.00099	.00015	.00001	.01595	.00001
%RSD	128.54	937.70	4.6675	1586.3	14.589
#1	.00148	-.00009	.00025	-.01027	.00008
#2	.00007	.00013	.00023	.01228	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00090**	**-.02083**	**-.00136**	**.00093**
Stddev	.00	.00127	.00034	.00292	.00261
%RSD	.0013	142.24	1.6496	214.85	281.79
#1	25.02	-.00180	-.02108	.00071	.00277
#2	25.02	.00001	-.02059	-.00342	-.00092
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.07013**	**-.00019**	**.00010**	**.9952**	**-.00011**
Stddev	.00464	.00064	.00006	.0016	.00037
%RSD	6.6204	335.92	61.175	.1560	330.70
#1	-.06685	.00026	.00006	.9941	-.00038
#2	-.07341	-.00064	.00014	.9963	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/14/2022 3:18:07 Type: QC
Method: ICAP2 New stds DEC2019(v987) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00092**	**.00033**	**-.00244**	**.9997**
Stddev	.00007	.00017	.00016	.0007
%RSD	7.4616	53.299	6.6951	.0676
#1	.00097	.00045	-.00255	.9993
#2	.00087	.00020	-.00232	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3430.7**	**2522.5**	**24568.**	**3449.0**
Stddev	14.0	10.0	16.	34.3
%RSD	.40748	.39487	.06512	.99402
#1	3440.6	2529.6	24579.	3424.7
#2	3420.8	2515.5	24557.	3473.2

Run File: I2061522A

Instrument: ICAP2

Analyst: BLH

Data Review: 6/16/22 BLH

Spikes Ids:6909430(W1), 6893436(W2),6902374(Sn), 6917474(Ag),6917504(Si), 6842082(TCLP), 6917511(S)
Pipette IDs: 3/22/22-(1-11)
Internal Standard:7026763

Seq#	Run File ID	Sample ID	Date / Time	Type
1	I2061522A	ICIS-7026764	6/15/2022 10:45:10AM	Standard
2	I2061522A	IC-7019501	6/15/2022 10:49:05AM	Standard
3	I2061522A	IC-7032336	6/15/2022 10:52:59AM	Standard
4	I2061522A	IC-7019492	6/15/2022 10:56:40AM	Standard
5	I2061522A	ICV-7032328	6/15/2022 11:00:22AM	QC
6	I2061522A	ICB-7026764	6/15/2022 11:04:05AM	QC
7	I2061522A	ICVL-7028546	6/15/2022 11:08:00AM	QC
8	I2061522A	ICSA-7017591	6/15/2022 11:11:55AM	QC
9	I2061522A	ICSAB-7019499	6/15/2022 11:15:55AM	QC
10	I2061522A	ICEX1	6/15/2022 11:19:46AM	Unknown
11	I2061522A	ICEX2	6/15/2022 11:23:49AM	Unknown
12	I2061522A	ICEX3	6/15/2022 11:27:47AM	Unknown
13	I2061522A	ICEX4	6/15/2022 11:31:51AM	Unknown
14	I2061522A	ICEX5	6/15/2022 11:35:43AM	Unknown
15	I2061522A	CCV-7032336	6/15/2022 11:39:39AM	QC
16	I2061522A	CCB-7026764	6/15/2022 11:43:20AM	QC
17	I2061522A	CCVL-7028546	6/15/2022 12:01:33PM	QC
18	I2061522A	IDL 1	6/15/2022 12:05:27PM	Unknown
19	I2061522A	IDL 2	6/15/2022 12:09:23PM	Unknown
20	I2061522A	IDL 3	6/15/2022 12:13:18PM	Unknown
21	I2061522A	IDL 4	6/15/2022 12:17:14PM	Unknown
22	I2061522A	IDL 5	6/15/2022 12:21:09PM	Unknown
23	I2061522A	IDL 6	6/15/2022 12:25:04PM	Unknown
24	I2061522A	IDL 7	6/15/2022 12:28:59PM	Unknown
25	I2061522A	198604-2 tot	6/15/2022 12:32:55PM	Unknown
26	I2061522A	rinse	6/15/2022 12:36:46PM	Unknown
27	I2061522A	CCV-7032336	6/15/2022 12:40:44PM	QC
28	I2061522A	CCB-7026764	6/15/2022 12:44:26PM	QC
29	I2061522A	CCVL-7028546	6/15/2022 12:48:23PM	QC
30	I2061522A	MB 480-629787/1-B	6/15/2022 12:52:18PM	Unknown
31	I2061522A	LCS 480-629787/2-B	6/15/2022 12:56:12PM	Unknown
32	I2061522A	480-198720-E-1-B	6/15/2022 12:59:55PM	Unknown
33	I2061522A	480-198720-E-2-BSD@5	6/15/2022 1:03:48PM	Unknown
34	I2061522A	480-198720-E-2-BPDS	6/15/2022 1:07:40PM	Unknown
35	I2061522A	480-198720-E-2-B	6/15/2022 1:11:33PM	Unknown
36	I2061522A	480-198720-E-2-C MS	6/15/2022 1:15:16PM	Unknown
37	I2061522A	480-198720-E-2-D MSD	6/15/2022 1:18:59PM	Unknown
38	I2061522A	480-198720-E-4-B	6/15/2022 1:22:42PM	Unknown
39	I2061522A	CCV-7032336	6/15/2022 1:26:36PM	QC
40	I2061522A	CCB-7026764	6/15/2022 1:30:16PM	QC
41	I2061522A	CCVL-7028546	6/15/2022 1:34:13PM	QC
42	I2061522A	480-198813-R-2-B	6/15/2022 1:38:08PM	Unknown

43	I2061522A	480-198813-R-8-B	6/15/2022	1:42:06PM	Unknown
44	I2061522A	480-198813-D-10-B	6/15/2022	1:45:58PM	Unknown
45	I2061522A	MB 480-629850/1-A	6/15/2022	1:49:49PM	Unknown
46	I2061522A	LCS 480-629850/2-A	6/15/2022	1:53:44PM	Unknown
47	I2061522A	480-198954-B-1-A	6/15/2022	1:57:36PM	Unknown
48	I2061522A	480-198954-B-1-ASD@5	6/15/2022	2:01:27PM	Unknown
49	I2061522A	480-198954-B-1-APDS	6/15/2022	2:05:19PM	Unknown
50	I2061522A	480-198954-B-1-B MS	6/15/2022	2:09:01PM	Unknown
51	I2061522A	CCV-7032336	6/15/2022	2:12:46PM	QC
52	I2061522A	CCB-7026764	6/15/2022	2:16:28PM	QC
53	I2061522A	CCVL-7028546	6/15/2022	2:20:26PM	QC
54	I2061522A	480-198954-B-1-C MSD	6/15/2022	2:24:21PM	Unknown
55	I2061522A	480-198730-A-1-A	6/15/2022	2:28:03PM	Unknown
56	I2061522A	480-198730-A-2-A	6/15/2022	2:31:56PM	Unknown
57	I2061522A	480-198654-C-1-A	6/15/2022	2:35:47PM	Unknown
58	I2061522A	480-198655-C-1-A	6/15/2022	2:39:45PM	Unknown
59	I2061522A	480-198771-C-1-A	6/15/2022	2:43:42PM	Unknown
60	I2061522A	480-198777-C-1-A	6/15/2022	2:47:44PM	Unknown
61	I2061522A	480-198777-C-2-A	6/15/2022	2:51:58PM	Unknown
62	I2061522A	480-198900-C-1-A	6/15/2022	2:56:03PM	Unknown
63	I2061522A	CCV-7032336	6/15/2022	2:59:59PM	QC
64	I2061522A	CCB-7026764	6/15/2022	3:03:41PM	QC
65	I2061522A	CCVL-7028546	6/15/2022	3:07:37PM	QC
66	I2061522A	480-198900-C-2-A	6/15/2022	3:11:33PM	Unknown
67	I2061522A	480-198900-C-3-A	6/15/2022	3:15:27PM	Unknown
68	I2061522A	MB 480-629985/1-A	6/15/2022	3:19:23PM	Unknown
69	I2061522A	LCS 480-629985/2-A	6/15/2022	3:23:19PM	Unknown
70	I2061522A	480-198948-A-1-A	6/15/2022	3:27:03PM	Unknown
71	I2061522A	480-198948-A-1-ASD@5	6/15/2022	3:31:00PM	Unknown
72	I2061522A	480-198948-A-1-APDS	6/15/2022	3:34:54PM	Unknown
73	I2061522A	480-198948-A-1-B MS	6/15/2022	3:38:42PM	Unknown
74	I2061522A	480-198948-A-1-C MSD	6/15/2022	3:42:30PM	Unknown
75	I2061522A	CCV-7032336	6/15/2022	3:46:21PM	QC
76	I2061522A	CCB-7026764	6/15/2022	3:50:02PM	QC
77	I2061522A	CCVL-7028546	6/15/2022	3:54:00PM	QC
78	I2061522A	480-198906-B-2-A	6/15/2022	3:57:55PM	Unknown
79	I2061522A	480-198906-B-3-A	6/15/2022	4:01:47PM	Unknown
80	I2061522A	480-198906-B-4-A	6/15/2022	4:05:39PM	Unknown
81	I2061522A	480-198906-B-5-A	6/15/2022	4:09:31PM	Unknown
82	I2061522A	480-198906-B-6-A	6/15/2022	4:13:23PM	Unknown
83	I2061522A	480-198906-B-7-A	6/15/2022	4:17:21PM	Unknown
84	I2061522A	480-198906-B-8-A	6/15/2022	4:21:13PM	Unknown
85	I2061522A	480-198961-A-3-A	6/15/2022	4:25:04PM	Unknown
86	I2061522A	480-198961-A-4-A	6/15/2022	4:28:55PM	Unknown
87	I2061522A	CCV-7032336	6/15/2022	4:32:52PM	QC
88	I2061522A	CCB-7026764	6/15/2022	4:36:32PM	QC
89	I2061522A	CCVL-7028546	6/15/2022	4:40:32PM	QC
90	I2061522A	480-198910-B-1-A	6/15/2022	4:44:27PM	Unknown
91	I2061522A	480-198911-B-1-A	6/15/2022	4:48:16PM	Unknown
92	I2061522A	480-198911-B-2-A	6/15/2022	4:52:08PM	Unknown
93	I2061522A	480-198911-B-3-A	6/15/2022	4:56:00PM	Unknown
94	I2061522A	480-198911-B-4-A	6/15/2022	4:59:52PM	Unknown

95	I2061522A	480-198911-B-5-A	6/15/2022	5:03:44PM	Unknown
96	I2061522A	480-198911-B-6-A	6/15/2022	5:07:35PM	Unknown
97	I2061522A	480-198911-B-7-A	6/15/2022	5:11:27PM	Unknown
98	I2061522A	480-198438-C-2-B@2	6/15/2022	5:15:17PM	Unknown
99	I2061522A	CCV-7032336	6/15/2022	5:19:07PM	QC
100	I2061522A	CCB-7026764	6/15/2022	5:22:48PM	QC
101	I2061522A	CCVL-7028546	6/15/2022	5:26:47PM	QC
102	I2061522A	480-198438-C-2-B@5	6/15/2022	5:30:41PM	Unknown
103	I2061522A	480-198438-C-2-B@10	6/15/2022	5:34:29PM	Unknown
104	I2061522A	MB 480-629851/1-A	6/15/2022	5:38:19PM	Unknown
105	I2061522A	LCS 480-629851/2-A	6/15/2022	5:42:14PM	Unknown
106	I2061522A	480-198898-N-1-A	6/15/2022	5:45:57PM	Unknown
107	I2061522A	480-198898-N-1-ASD@5	6/15/2022	5:49:49PM	Unknown
108	I2061522A	480-198898-N-1-APDS	6/15/2022	5:53:42PM	Unknown
109	I2061522A	480-198898-N-1-B MS	6/15/2022	5:57:24PM	Unknown
110	I2061522A	480-198898-N-1-C MSD	6/15/2022	6:01:08PM	Unknown
111	I2061522A	CCV-7032336	6/15/2022	6:04:54PM	QC
112	I2061522A	CCB-7026764	6/15/2022	6:08:34PM	QC
113	I2061522A	CCVL-7028546	6/15/2022	6:12:32PM	QC
114	I2061522A	480-198764-N-1-B	6/15/2022	6:16:27PM	Unknown
115	I2061522A	480-198764-N-2-B	6/15/2022	6:20:23PM	Unknown
116	I2061522A	480-198764-N-3-B	6/15/2022	6:24:18PM	Unknown
117	I2061522A	480-198764-N-4-B	6/15/2022	6:28:09PM	Unknown
118	I2061522A	480-198764-N-5-B	6/15/2022	6:32:00PM	Unknown
119	I2061522A	480-198776-F-1-A	6/15/2022	6:35:56PM	Unknown
120	I2061522A	480-198897-N-1-B	6/15/2022	6:39:50PM	Unknown
121	I2061522A	480-198899-G-1-B	6/15/2022	6:43:46PM	Unknown
122	I2061522A	480-198899-G-2-B	6/15/2022	6:47:44PM	Unknown
123	I2061522A	CCV-7032336	6/15/2022	6:51:44PM	QC
124	I2061522A	CCB-7026764	6/15/2022	6:55:25PM	QC
125	I2061522A	CCVL-7028546	6/15/2022	6:59:23PM	QC
126	I2061522A	480-198899-G-3-B	6/15/2022	7:03:18PM	Unknown
127	I2061522A	480-198903-D-1-A	6/15/2022	7:07:13PM	Unknown
128	I2061522A	MB 480-630025/1-A	6/15/2022	7:11:02PM	Unknown
129	I2061522A	LCS 480-630025/2-A	6/15/2022	7:14:57PM	Unknown
130	I2061522A	480-198974-C-1-A	6/15/2022	7:18:41PM	Unknown
131	I2061522A	480-198974-C-1-ASD@5	6/15/2022	7:22:33PM	Unknown
132	I2061522A	480-198974-C-1-APDS	6/15/2022	7:26:25PM	Unknown
133	I2061522A	480-198974-C-1-B MS	6/15/2022	7:30:07PM	Unknown
134	I2061522A	480-198974-C-1-C MSD	6/15/2022	7:33:50PM	Unknown
135	I2061522A	CCV-7032336	6/15/2022	7:37:34PM	QC
136	I2061522A	CCB-7026764	6/15/2022	7:41:15PM	QC
137	I2061522A	CCVL-7028546	6/15/2022	7:45:12PM	QC
138	I2061522A	480-198994-A-1-A	6/15/2022	7:49:07PM	Unknown
139	I2061522A	480-198844-B-1-A	6/15/2022	7:52:56PM	Unknown
140	I2061522A	rinse	6/15/2022	7:57:17PM	Unknown
141	I2061522A	rinse	6/15/2022	8:01:12PM	Unknown
142	I2061522A	480-198761-B-1-A	6/15/2022	8:05:07PM	Unknown
143	I2061522A	480-198876-R-1-A	6/15/2022	8:09:04PM	Unknown
144	I2061522A	480-198880-A-14-B	6/15/2022	8:13:04PM	Unknown
145	I2061522A	MB 480-629870/1-A	6/15/2022	8:17:00PM	Unknown
146	I2061522A	LCS 480-629870/2-A	6/15/2022	8:20:55PM	Unknown

147	I2061522A	CCV-7032336	6/15/2022	8:24:39PM	QC
148	I2061522A	CCB-7026764	6/15/2022	8:28:20PM	QC
149	I2061522A	CCVL-7028546	6/15/2022	8:32:17PM	QC
150	I2061522A	620-4969-J-1-C	6/15/2022	8:36:12PM	Unknown
151	I2061522A	620-4969-J-2-C	6/15/2022	8:40:11PM	Unknown
152	I2061522A	620-4969-J-3-C	6/15/2022	8:44:06PM	Unknown
153	I2061522A	620-4969-J-4-C	6/15/2022	8:47:56PM	Unknown
154	I2061522A	620-4969-J-5-C	6/15/2022	8:51:47PM	Unknown
155	I2061522A	620-4969-J-6-C	6/15/2022	8:55:38PM	Unknown
156	I2061522A	620-4969-J-6-Csd@5	6/15/2022	8:59:32PM	Unknown
157	I2061522A	620-4969-J-6-C PDS	6/15/2022	9:03:26PM	Unknown
158	I2061522A	620-4969-J-6-D MS	6/15/2022	9:07:09PM	Unknown
159	I2061522A	CCV-7032336	6/15/2022	9:10:56PM	QC
160	I2061522A	CCB-7026764	6/15/2022	9:14:36PM	QC
161	I2061522A	CCVL-7028546	6/15/2022	9:18:35PM	QC
162	I2061522A	620-4969-J-6-E MSD	6/15/2022	9:22:29PM	Unknown
163	I2061522A	620-4969-T-7-C	6/15/2022	9:26:13PM	Unknown
164	I2061522A	620-4969-J-8-C	6/15/2022	9:30:05PM	Unknown
165	I2061522A	620-5017-J-1-C	6/15/2022	9:33:57PM	Unknown
166	I2061522A	620-5017-J-2-C	6/15/2022	9:37:48PM	Unknown
167	I2061522A	620-5017-J-3-C	6/15/2022	9:41:40PM	Unknown
168	I2061522A	620-5017-J-4-C	6/15/2022	9:45:32PM	Unknown
169	I2061522A	620-5017-J-5-C	6/15/2022	9:49:25PM	Unknown
170	I2061522A	MB 480-629872/1-A	6/15/2022	9:53:18PM	Unknown
171	I2061522A	CCV-7032336	6/15/2022	9:57:15PM	QC
172	I2061522A	CCB-7026764	6/15/2022	10:00:56PM	QC
173	I2061522A	CCVL-7028546	6/15/2022	10:04:54PM	QC
174	I2061522A	LCS 480-629872/2-A	6/15/2022	10:08:49PM	Unknown
175	I2061522A	480-198886-D-1-A	6/15/2022	10:12:32PM	Unknown
176	I2061522A	480-198888-D-1-A	6/15/2022	10:16:37PM	Unknown
177	I2061522A	480-198890-C-1-B	6/15/2022	10:20:39PM	Unknown
178	I2061522A	480-198890-C-1-Bsd@5	6/15/2022	10:24:32PM	Unknown
179	I2061522A	480-198890-C-1-BPDS	6/15/2022	10:28:27PM	Unknown
180	I2061522A	480-198890-C-1-C MS	6/15/2022	10:32:10PM	Unknown
181	I2061522A	480-198890-C-1-D MSD	6/15/2022	10:35:53PM	Unknown
182	I2061522A	480-198890-C-2-B	6/15/2022	10:39:37PM	Unknown
183	I2061522A	CCV-7032336	6/15/2022	10:43:36PM	QC
184	I2061522A	CCB-7026764	6/15/2022	10:47:17PM	QC
185	I2061522A	CCVL-7028546	6/15/2022	10:51:14PM	QC
186	I2061522A	480-198890-C-3-B	6/15/2022	10:55:09PM	Unknown
187	I2061522A	480-198890-C-4-B	6/15/2022	10:59:00PM	Unknown
188	I2061522A	480-198890-C-5-B	6/15/2022	11:02:52PM	Unknown
189	I2061522A	480-198890-C-6-B	6/15/2022	11:06:44PM	Unknown
190	I2061522A	480-198896-D-1-A	6/15/2022	11:10:34PM	Unknown
191	I2061522A	480-198896-D-2-A	6/15/2022	11:14:28PM	Unknown
192	I2061522A	480-198896-D-3-A	6/15/2022	11:18:23PM	Unknown
193	I2061522A	480-198896-D-4-A	6/15/2022	11:22:17PM	Unknown
194	I2061522A	480-198894-C-1-B	6/15/2022	11:26:07PM	Unknown
195	I2061522A	CCV-7032336	6/15/2022	11:30:05PM	QC
196	I2061522A	CCB-7026764	6/15/2022	11:33:46PM	QC
197	I2061522A	CCVL-7028546	6/15/2022	11:37:42PM	QC
198	I2061522A	480-198894-C-2-B	6/15/2022	11:41:38PM	Unknown

199	I2061522A	480-198919-C-1-A	6/15/2022	11:45:32PM	Unknown
200	I2061522A	480-198933-A-1-A	6/15/2022	11:49:24PM	Unknown
201	I2061522A	480-198933-A-2-A	6/15/2022	11:53:13PM	Unknown
202	I2061522A	CCVL-7028546	6/15/2022	11:57:07PM	QC
203	I2061522A	CCV-7032336	6/16/2022	12:01:03AM	QC
204	I2061522A	CCB-7026764	6/16/2022	12:04:44AM	QC

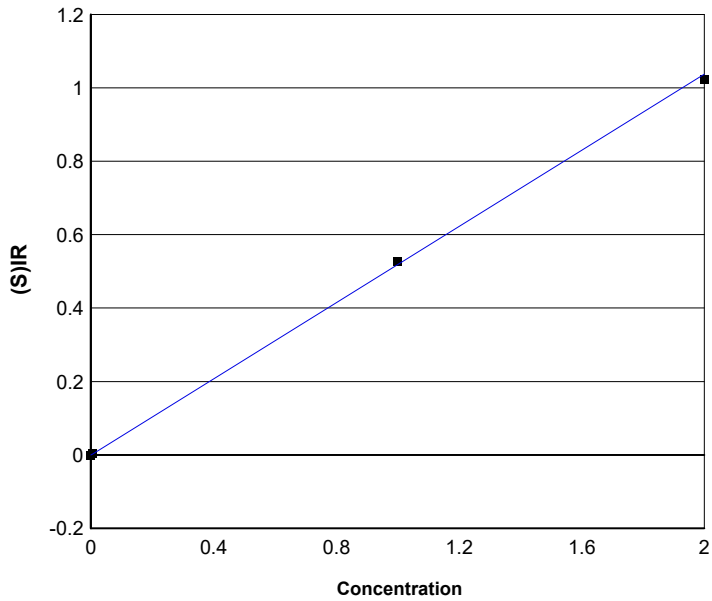
2061522A

Author: BLH

Published: 6/16/2022 11:05:45AM

Instrument Name: 20094602a Serial Number: 20094602

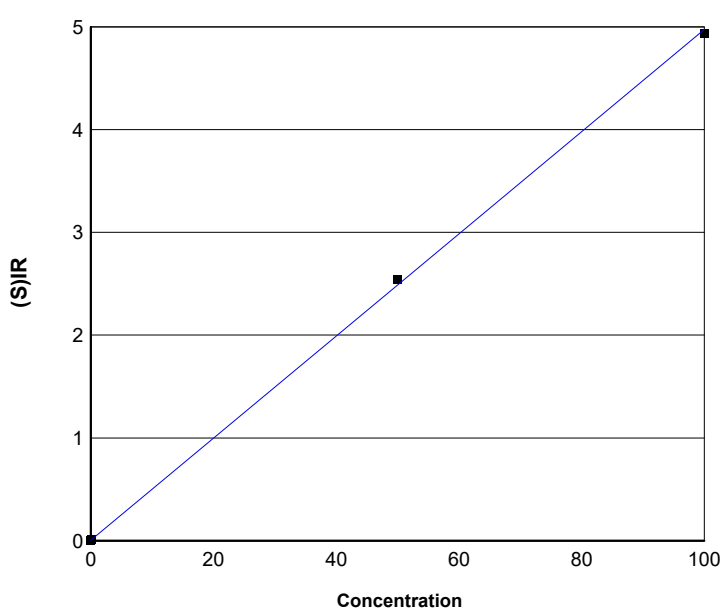
Method Name: ICAP2 New stds DEC2019 (989)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99990
A0 (Offset):	-0.00049871
A1 (Gain):	0.51899
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

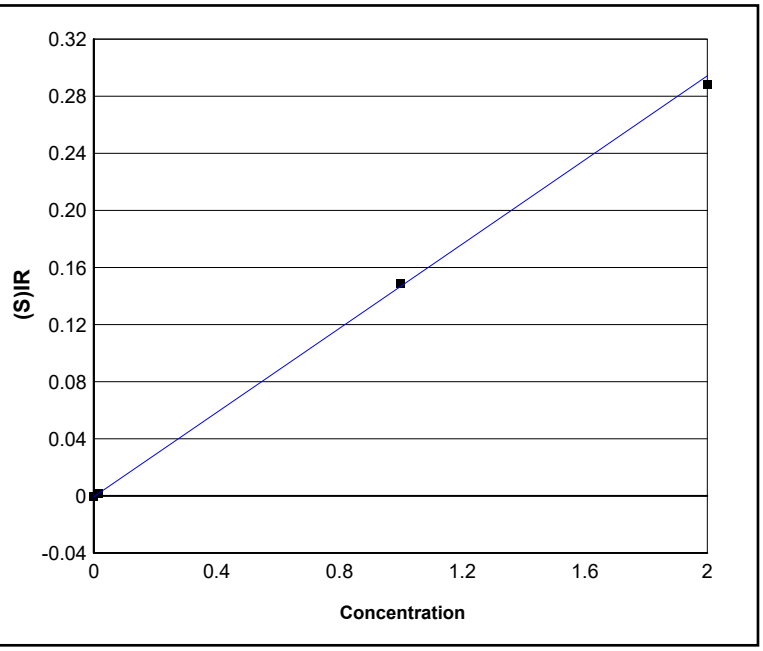
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000375	0.0000000375	0.00000	-0.00049870	0.000079885	1
IC-7019501	0.0060000	0.0059017	-0.000098301	-1.6383	0.0025642	0.00028133	1
IC-7032336	1.0000	1.0202	0.020157	2.0157	0.52687	0.00052881	1
IC-7019492	2.0000	1.9799	-0.020058	-1.0029	1.0229	0.0057254	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99990
A0 (Offset):	0.0037216
A1 (Gain):	0.049710
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

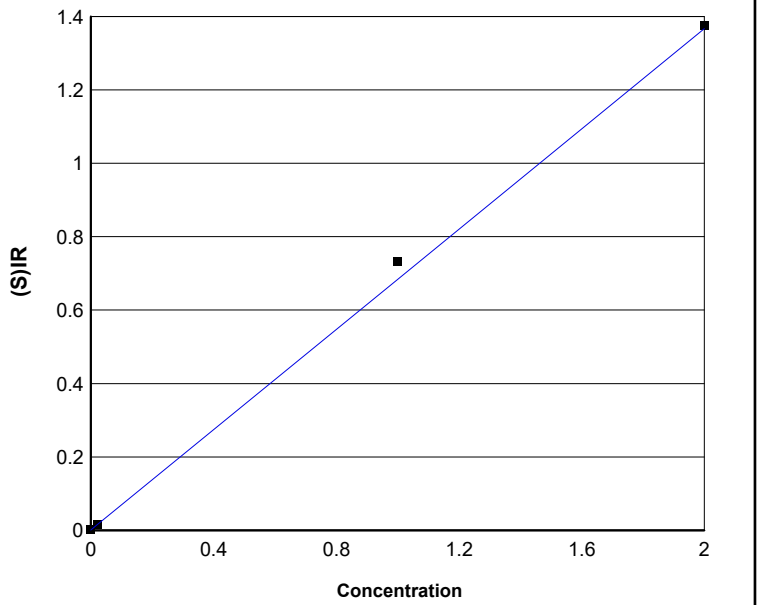
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000015881	0.0000015881	0.00000	0.0037217	0.00066841	1
IC-7019501	0.20000	0.19642	-0.0035812	-1.7906	0.013512	0.00063138	1
IC-7032336	50.000	50.993	0.99294	1.9859	2.5438	0.0061051	1
IC-7019492	100.00	99.011	-0.98935	-0.98935	4.9361	0.027199	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99986
A0 (Offset):	-0.00071454
A1 (Gain):	0.14745
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

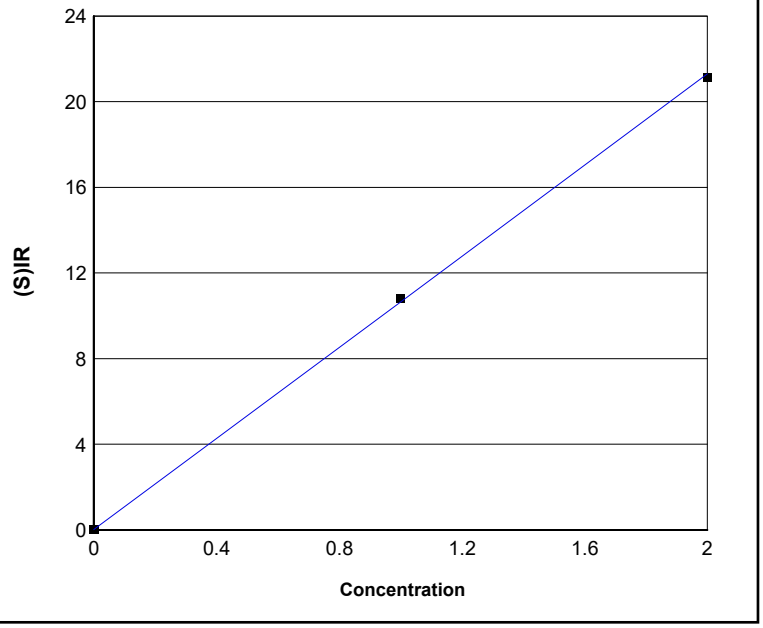
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000013053	-0.0000013053	0.00000	-0.00071473	0.000021961	1
IC-7019501	0.015000	0.016147	0.0011472	7.6480	0.0016614	0.00013682	1
IC-7032336	1.0000	1.0222	0.022230	2.2230	0.14868	0.000037796	1
IC-7019492	2.0000	1.9766	-0.023386	-1.1693	0.28807	0.00026796	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99956
A0 (Offset):	0.0011433
A1 (Gain):	0.68284
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

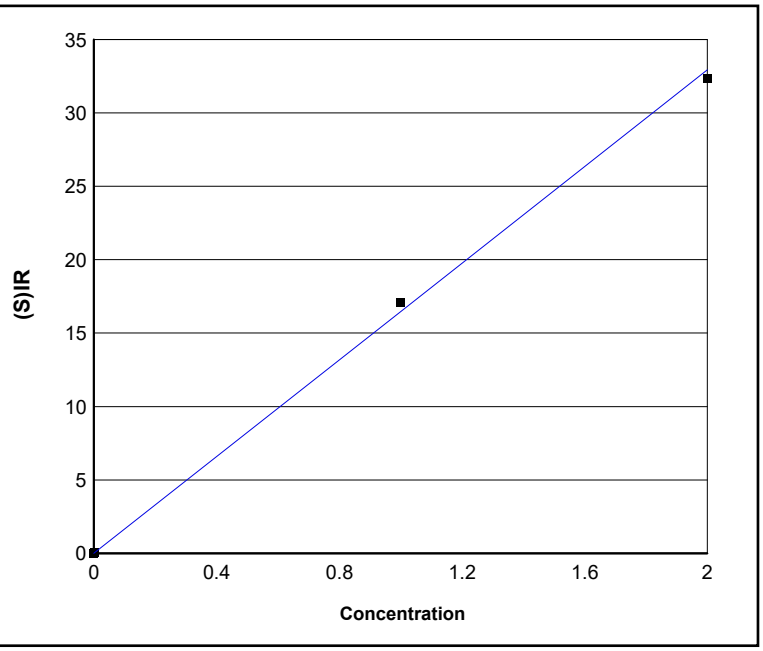
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000656	0.0000000656	0.00000	0.0011434	0.00039049	1
IC-7019501	0.020000	0.019495	-0.00050463	-2.5231	0.014645	0.000059803	1
IC-7032336	1.0000	1.0434	0.043404	4.3404	0.73260	0.00092853	1
IC-7019492	2.0000	1.9571	-0.042906	-2.1453	1.3755	0.0027491	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.017997
A1 (Gain):	10.639
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

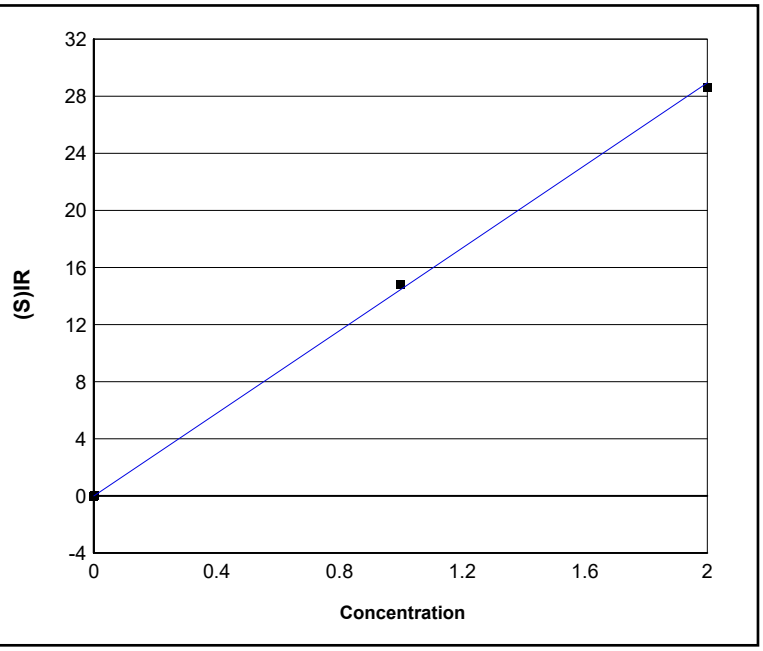
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000003044	0.0000003044	0.00000	0.018000	0.00021803	1
IC-7019501	0.0020000	0.0016802	-0.00031982	-15.991	0.035872	0.0021923	1
IC-7032336	1.0000	1.0151	0.015068	1.5068	10.817	0.0058412	1
IC-7019492	2.0000	1.9853	-0.014748	-0.73742	21.138	0.12751	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99968
A0 (Offset):	0.0049348
A1 (Gain):	16.466
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

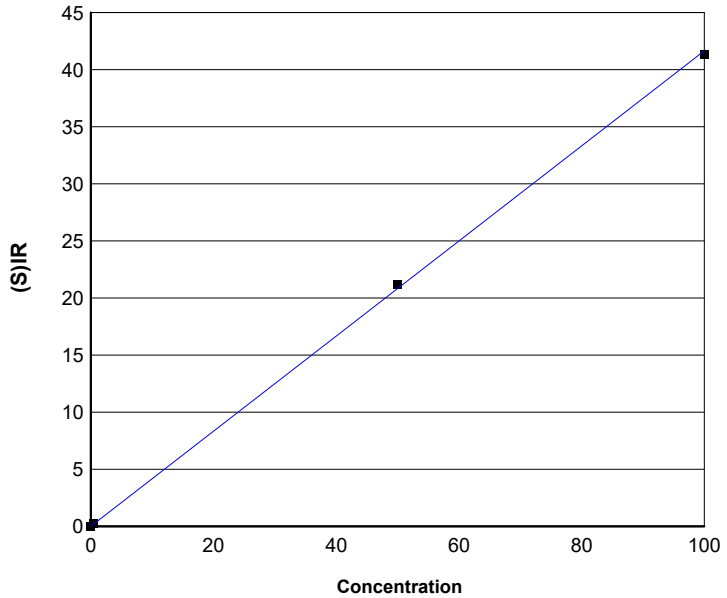
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000001826	-0.0000001826	0.00000	0.0049318	0.00010832	1
IC-7019501	0.0020000	0.0021474	0.00014735	7.3676	0.040294	0.00023767	1
IC-7032336	1.0000	1.0354	0.035398	3.5398	17.054	0.090708	1
IC-7019492	2.0000	1.9645	-0.035546	-1.7773	32.353	0.090724	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99989
A0 (Offset):	-0.010035
A1 (Gain):	14.476
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

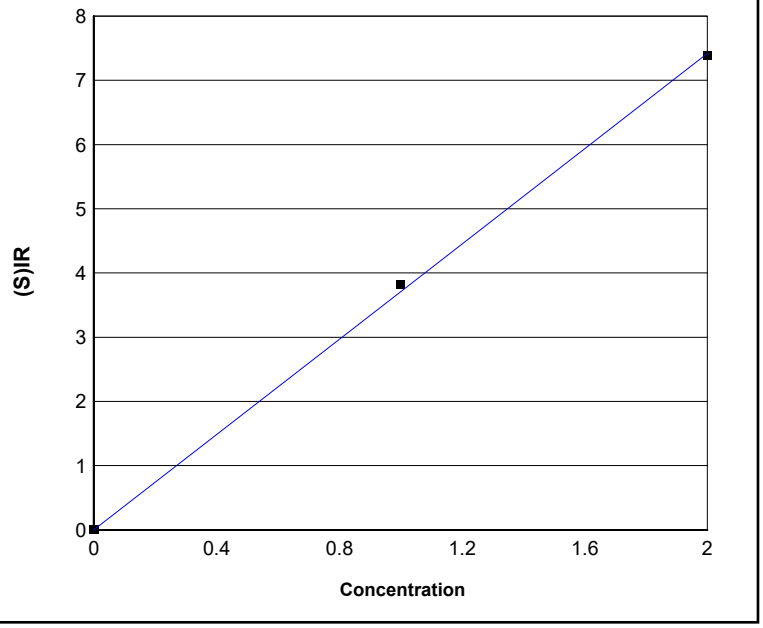
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000697	-0.0000000697	0.00000	-0.010037	0.0011800	1
IC-7019501	0.0020000	0.0020488	0.000048770	2.4385	0.019622	0.0011698	1
IC-7032336	1.0000	1.0210	0.020981	2.0981	14.769	0.044662	1
IC-7019492	2.0000	1.9790	-0.021030	-1.0515	28.637	0.20600	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.012956
A1 (Gain):	0.41626
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

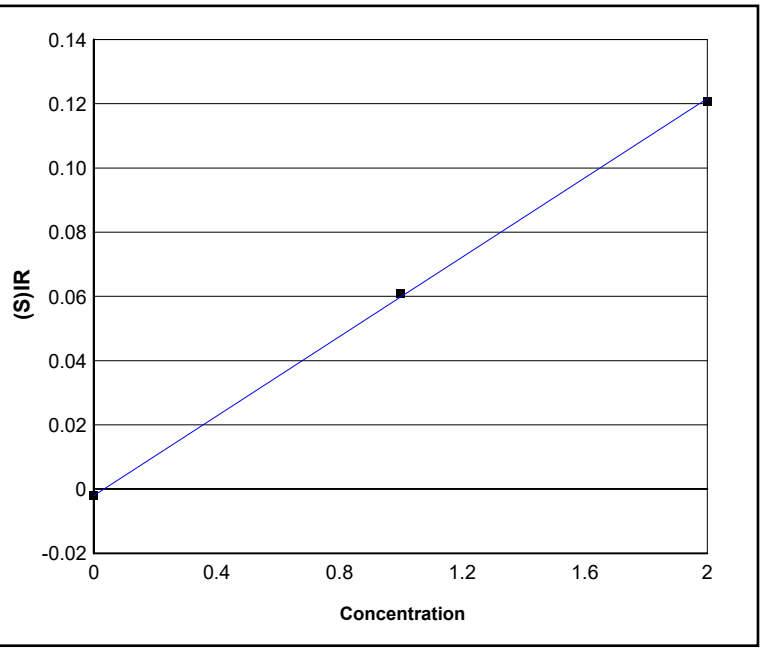
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	-0.000014586	-0.000014586	0.00000	0.012950	0.0024060	1
IC-7019501	0.50000	0.51043	0.010432	2.0864	0.22543	0.00088296	1
IC-7032336	50.000	50.841	0.84114	1.6823	21.176	0.046799	1
IC-7019492	100.00	99.148	-0.85157	-0.85157	41.285	0.26990	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99988
A0 (Offset):	0.00026466
A1 (Gain):	3.7091
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

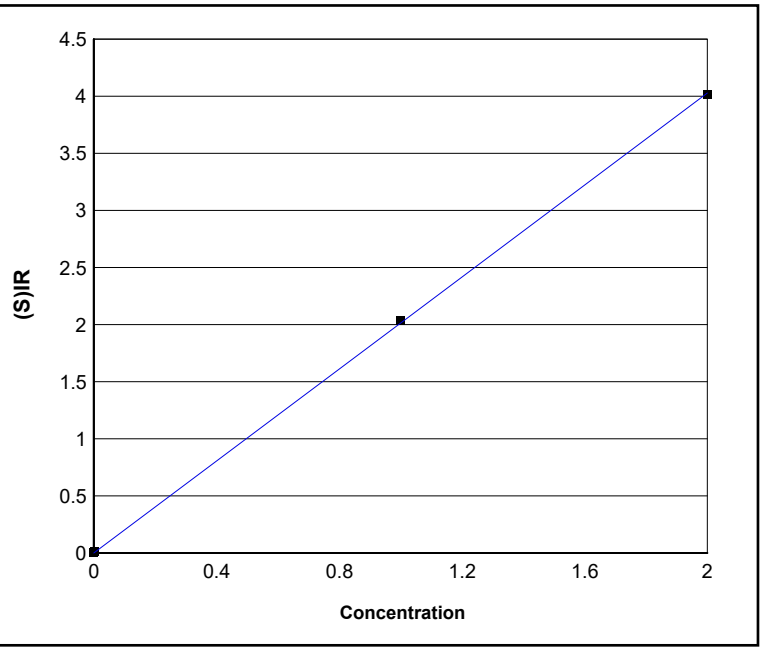
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000152	0.0000000152	0.00000	0.00026472	0.000010988	1
IC-7019501	0.0020000	0.0019626	-0.000037439	-1.8719	0.0079014	0.00025353	1
IC-7032336	1.0000	1.0222	0.022246	2.2246	3.8144	0.0038681	1
IC-7019492	2.0000	1.9778	-0.022207	-1.1104	7.3811	0.0045055	1



Element Name:	Ce
Element Wavelength:	Ce 404.076 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.9999
A0 (Offset):	-0.002047
A1 (Gain):	0.06184
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

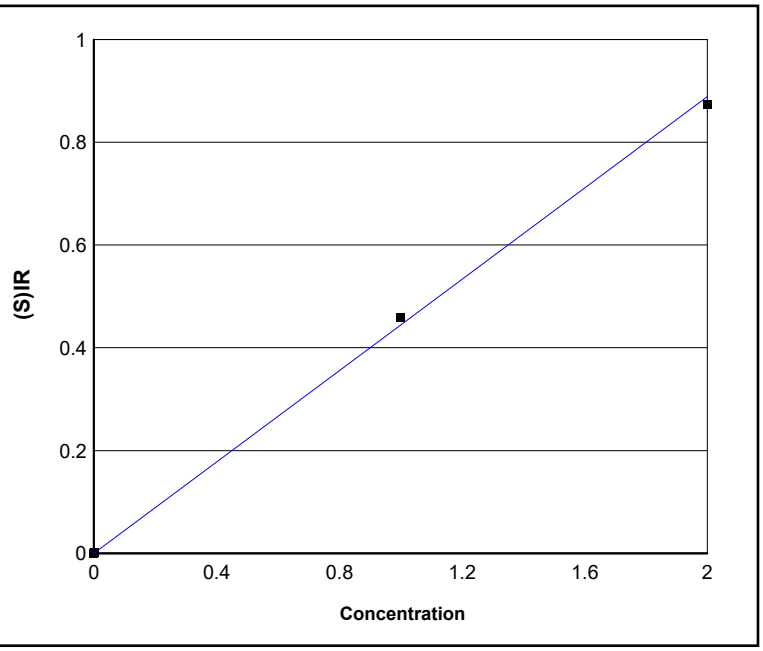
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000	-0.000008494	-0.000008494	0.0000	-0.002047	0.001022	1
IC-7019492	2.000	1.983	-0.01699	-0.8494	0.1206	0.003476	1
IC-7032336	1.000	1.017	0.01699	1.699	0.06085	0.00006219	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00035858
A1 (Gain):	2.0140
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

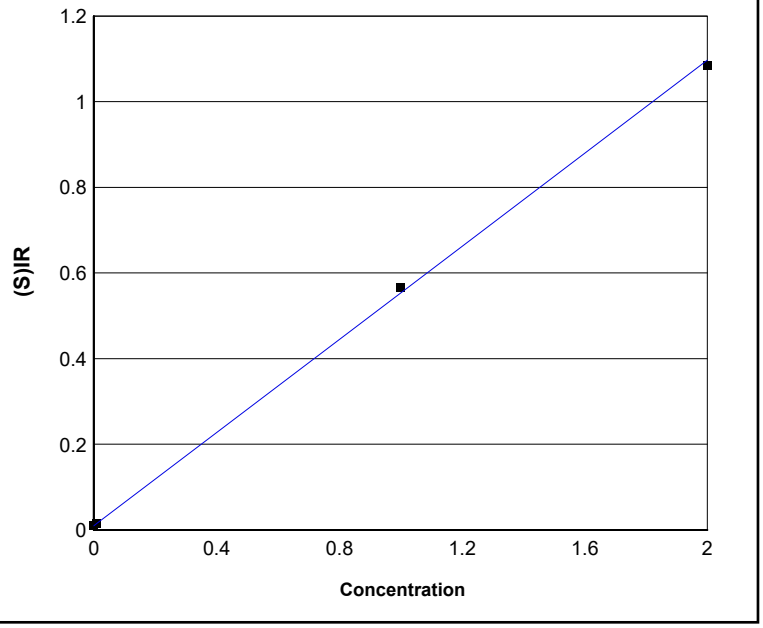
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000001402	0.0000001402	0.00000	0.00035886	0.00010327	1
IC-7019501	0.0040000	0.0038443	-0.00015574	-3.8935	0.0080998	0.00028682	1
IC-7032336	1.0000	1.0076	0.0076294	0.76294	2.0313	0.0044710	1
IC-7019492	2.0000	1.9925	-0.0074738	-0.37369	4.0165	0.00055305	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99970
A0 (Offset):	0.000071245
A1 (Gain):	0.44436
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

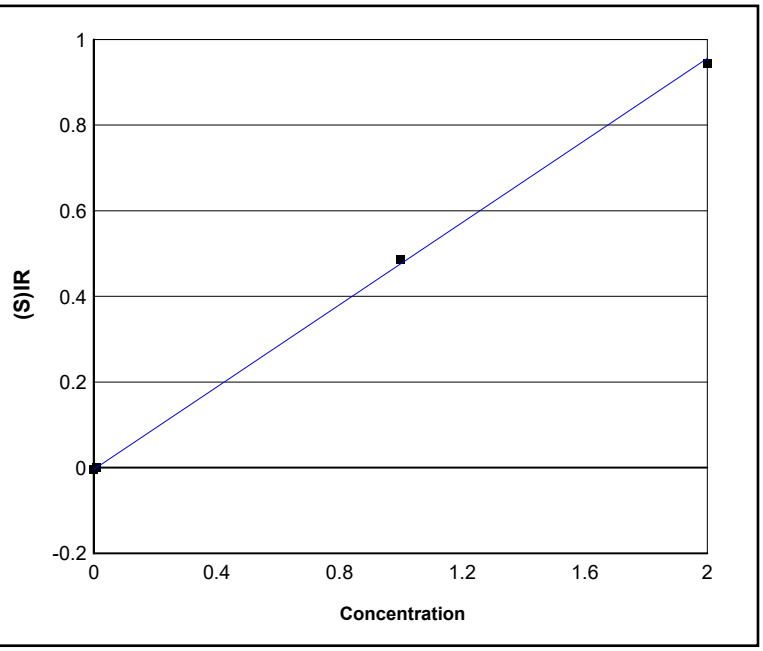
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000000976	-0.0000000976	0.00000	0.000071201	0.000073925	1
IC-7019501	0.0040000	0.0040288	0.000028817	0.72043	0.0018617	0.000051678	1
IC-7032336	1.0000	1.0344	0.034441	3.4441	0.45970	0.00058489	1
IC-7019492	2.0000	1.9655	-0.034470	-1.7235	0.87341	0.0046731	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99986
A0 (Offset):	0.0099514
A1 (Gain):	0.54347
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

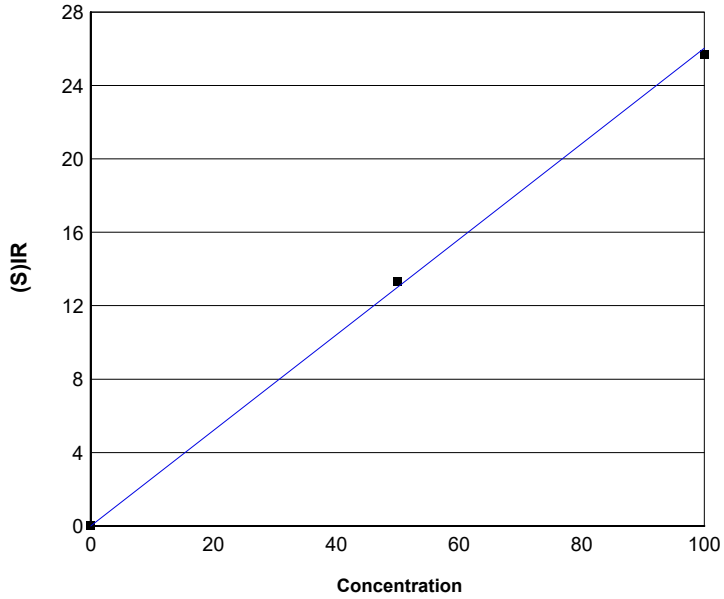
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000009415	-0.0000009415	0.00000	0.0099508	0.00024655	1
IC-7019501	0.010000	0.010833	0.00083271	8.3271	0.015839	0.000069351	1
IC-7032336	1.0000	1.0226	0.022594	2.2594	0.56570	0.00010367	1
IC-7019492	2.0000	1.9766	-0.023427	-1.1714	1.0842	0.0073217	1



Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99987
A0 (Offset):	-0.0034893
A1 (Gain):	0.47962
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

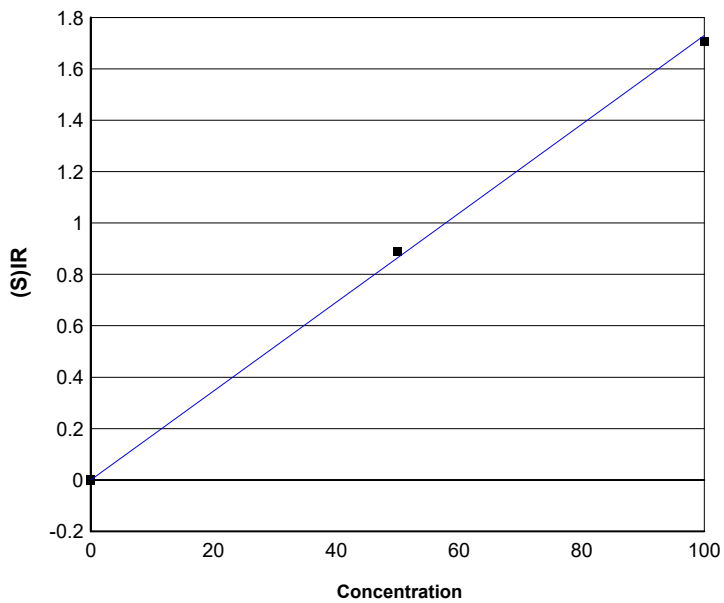
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000006283	-0.0000006283	0.00000	-0.0034896	0.000088224	1
IC-7019501	0.010000	0.010519	0.00051944	5.1944	0.0015579	0.000075398	1
IC-7032336	1.0000	1.0223	0.022301	2.2301	0.48662	0.0013006	1
IC-7019492	2.0000	1.9772	-0.022821	-1.1410	0.94439	0.0061013	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99985
A0 (Offset):	0.0020395
A1 (Gain):	0.26026
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

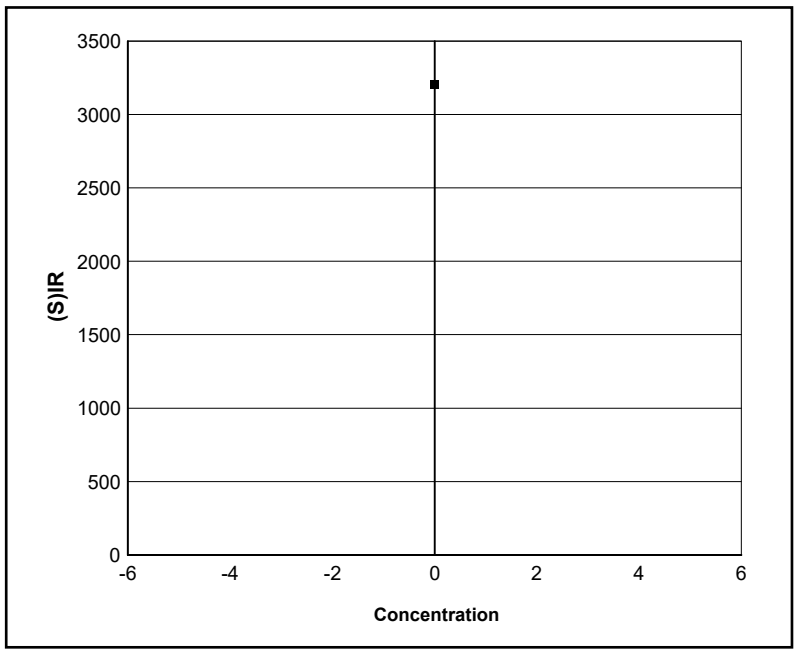
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000015924	0.0000015924	0.00000	0.0020399	0.00062833	1
IC-7019501	0.050000	0.047801	-0.0021989	-4.3978	0.014480	0.00030165	1
IC-7032336	50.025	51.237	1.2121	2.4229	13.337	0.041211	1
IC-7019492	100.00	98.790	-1.2099	-1.2099	25.713	0.17295	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99938
A0 (Offset):	-0.00029734
A1 (Gain):	0.017307
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

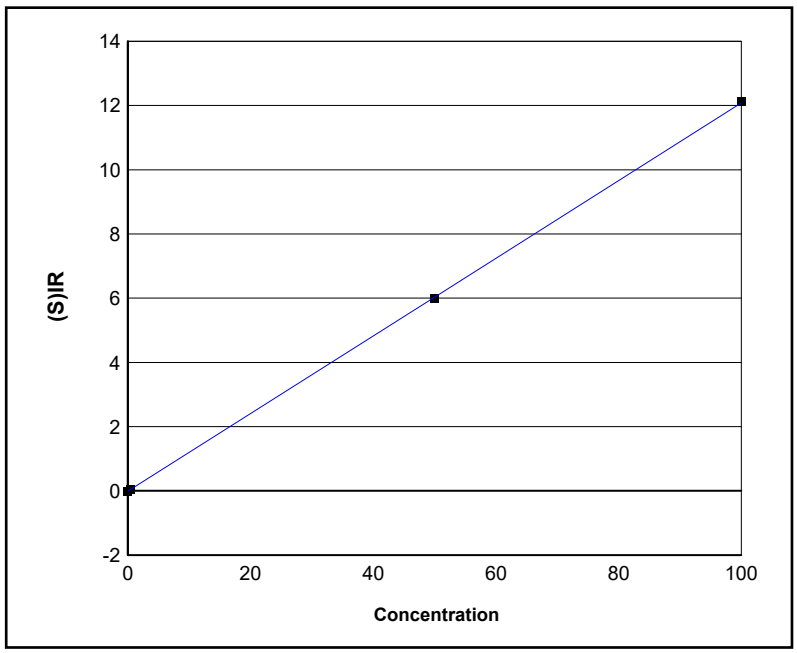
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	-0.000080797	-0.000080797	0.00000	-0.00029874	0.00054126	1
IC-7019501	0.050000	0.13016	0.080164	160.33	0.0019555	0.0013719	1
IC-7032336	50.025	51.373	1.3479	2.6945	0.88883	0.0037323	1
IC-7019492	100.00	98.572	-1.4281	-1.4281	1.7057	0.0055200	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 10:49:00AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

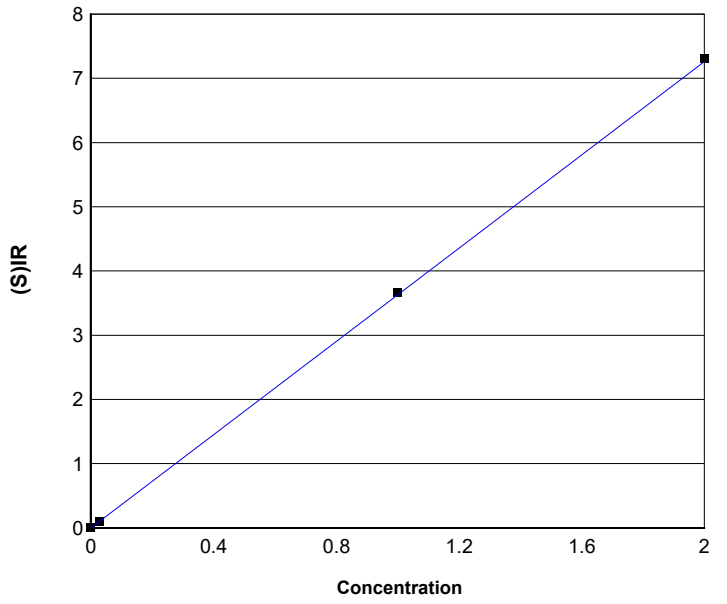
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000			0.0000	3,203	2.837	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.0093740
A1 (Gain):	0.12089
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

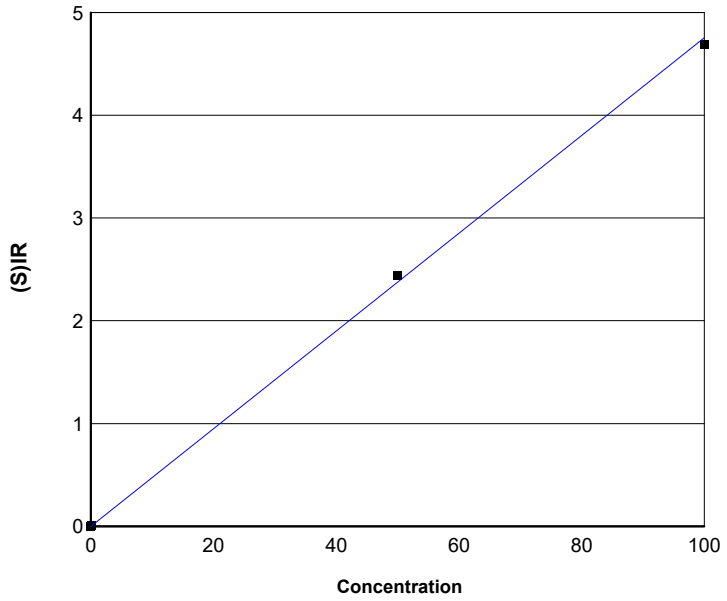
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.000015771	0.000015771	0.00000	-0.0093721	0.0052618	1
IC-7019501	0.50000	0.48545	-0.014554	-2.9108	0.049312	0.00032349	1
IC-7032336	50.000	49.742	-0.25805	-0.51609	6.0040	0.0091232	1
IC-7019492	100.00	100.27	0.27260	0.27260	12.113	0.080506	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.0015237
A1 (Gain):	3.6281
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

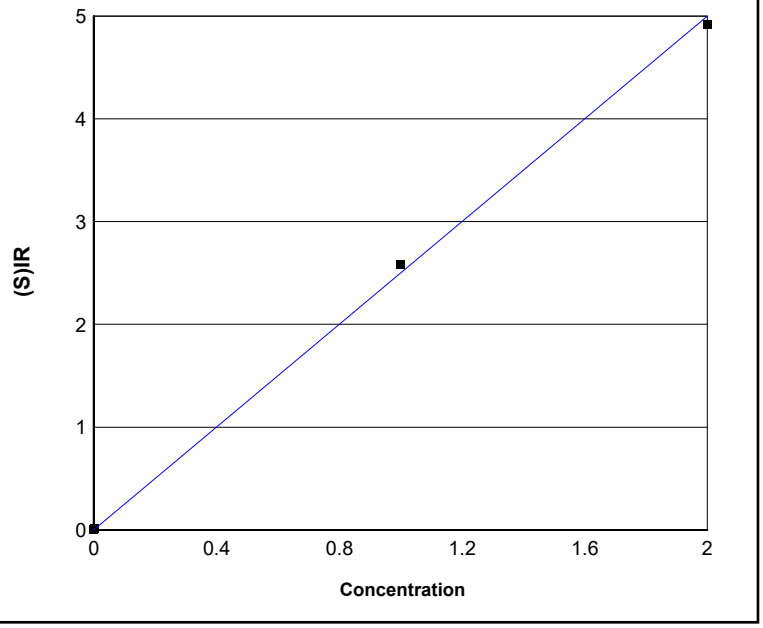
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000034432	0.0000034432	0.00000	0.0015362	0.0013338	1
IC-7019501	0.030000	0.026451	-0.0035495	-11.832	0.097735	0.0055091	1
IC-7032336	1.0000	1.0036	0.0035531	0.35531	3.6672	0.0048188	1
IC-7019492	2.0000	2.0000	-0.000019648	-0.00098241	7.3070	0.024711	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99982
A0 (Offset):	0.000013739
A1 (Gain):	0.047536
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

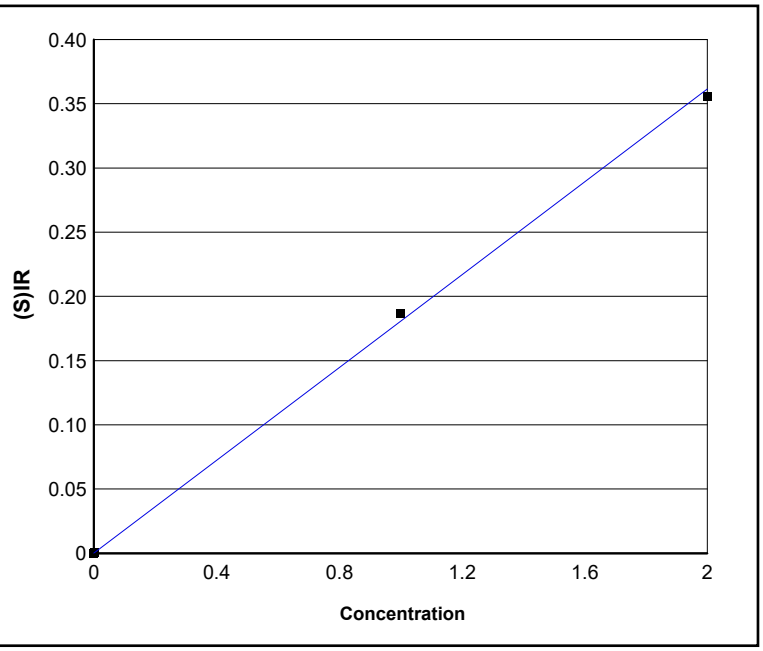
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000047132	-0.0000047132	0.00000	0.000013515	0.00012542	1
IC-7019501	0.20000	0.20201	0.0020066	1.0033	0.0096159	0.000012836	1
IC-7032336	50.000	51.355	1.3553	2.7106	2.4411	0.0015796	1
IC-7019492	100.00	98.643	-1.3573	-1.3573	4.6888	0.024012	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99973
A0 (Offset):	0.0010898
A1 (Gain):	2.4992
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

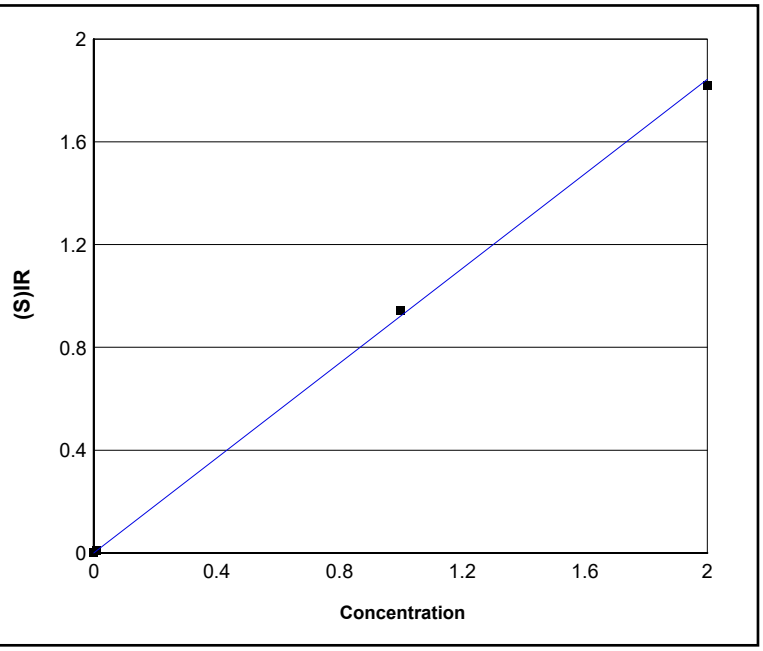
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000004709	-0.0000004709	0.00000	0.0010886	0.00018796	1
IC-7019501	0.0030000	0.0034231	0.00042307	14.102	0.0096474	0.00012130	1
IC-7032336	1.0000	1.0323	0.032275	3.2275	2.5817	0.0055197	1
IC-7019492	2.0000	1.9673	-0.032698	-1.6349	4.9193	0.033371	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99975
A0 (Offset):	0.00012261
A1 (Gain):	0.18070
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

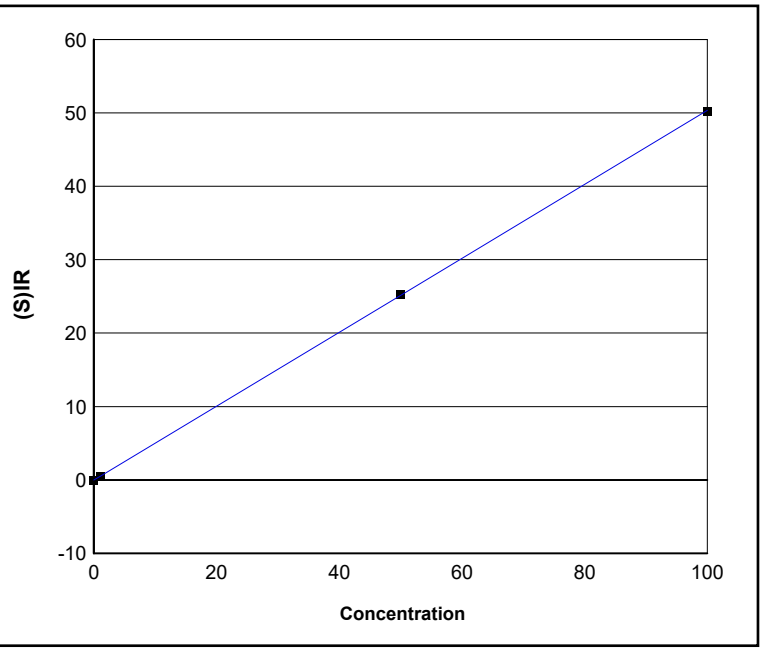
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000005281	-0.0000005281	0.00000	0.00012251	0.0000039797	1
IC-7019501	0.0030000	0.0034827	0.00048266	16.089	0.00075210	0.00015074	1
IC-7032336	1.0000	1.0307	0.030748	3.0748	0.18643	0.00027676	1
IC-7019492	2.0000	1.9688	-0.031231	-1.5616	0.35598	0.00034617	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99984
A0 (Offset):	0.000018895
A1 (Gain):	0.92166
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

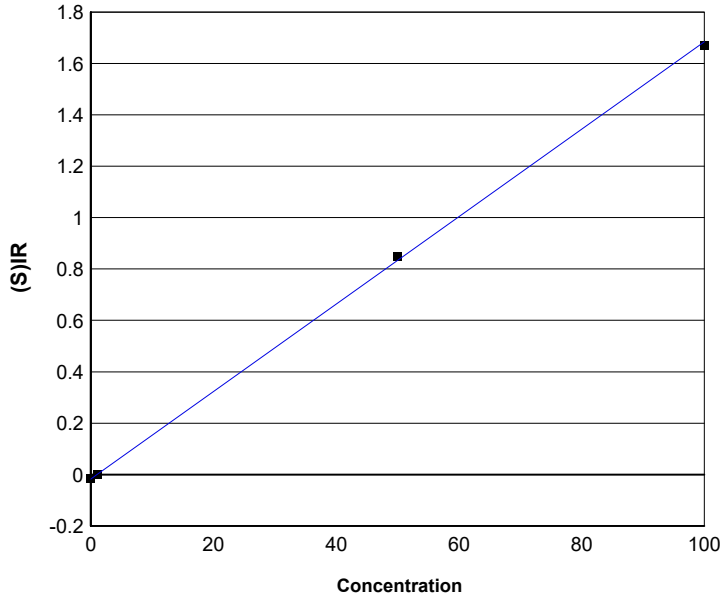
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000005417	-0.0000005417	0.00000	0.000018396	0.00016236	1
IC-7019501	0.010000	0.010418	0.00041846	4.1846	0.0096212	0.00018420	1
IC-7032336	1.0000	1.0251	0.025076	2.5076	0.94479	0.0016986	1
IC-7019492	2.0000	1.9745	-0.025494	-1.2747	1.8198	0.00091206	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.018393
A1 (Gain):	0.50374
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

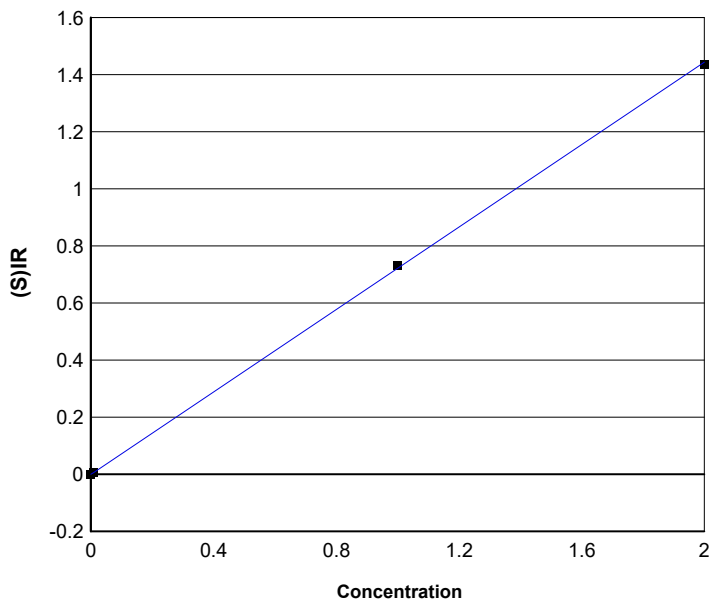
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.000044405	0.000044405	0.00000	-0.018371	0.0035912	1
IC-7019501	1.0000	0.95208	-0.047919	-4.7919	0.46120	0.0067985	1
IC-7032336	50.000	50.303	0.30346	0.60691	25.321	0.049862	1
IC-7019492	100.00	99.744	-0.25554	-0.25554	50.226	0.24282	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	-0.017231
A1 (Gain):	0.017018
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

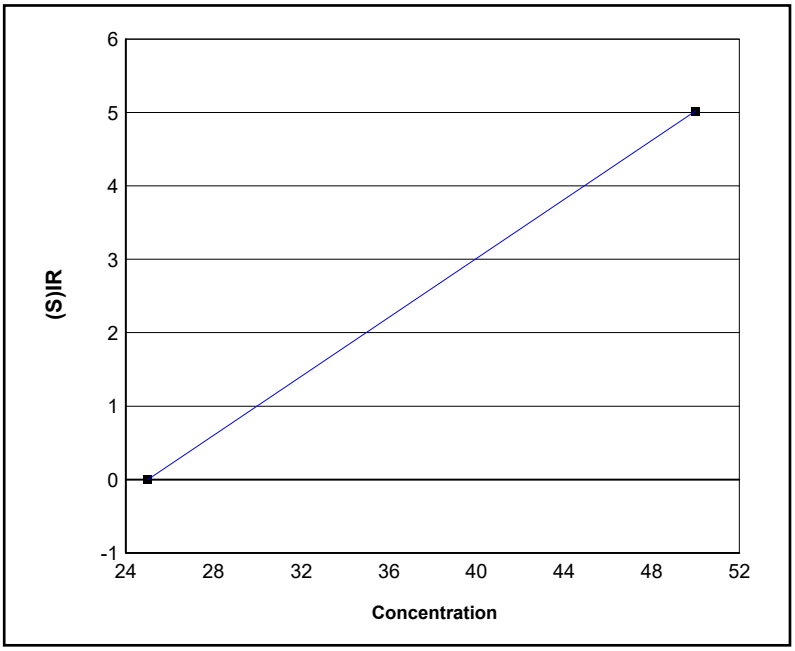
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000007839	-0.0000007839	0.00000	-0.017231	0.00021173	1
IC-7019501	1.0000	0.99248	-0.0075234	-0.75234	-0.00034118	0.0010341	1
IC-7032336	50.000	50.823	0.82321	1.6464	0.84766	0.0021263	1
IC-7019492	100.00	99.184	-0.81569	-0.81569	1.6707	0.0034566	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.00026801
A1 (Gain):	0.72176
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

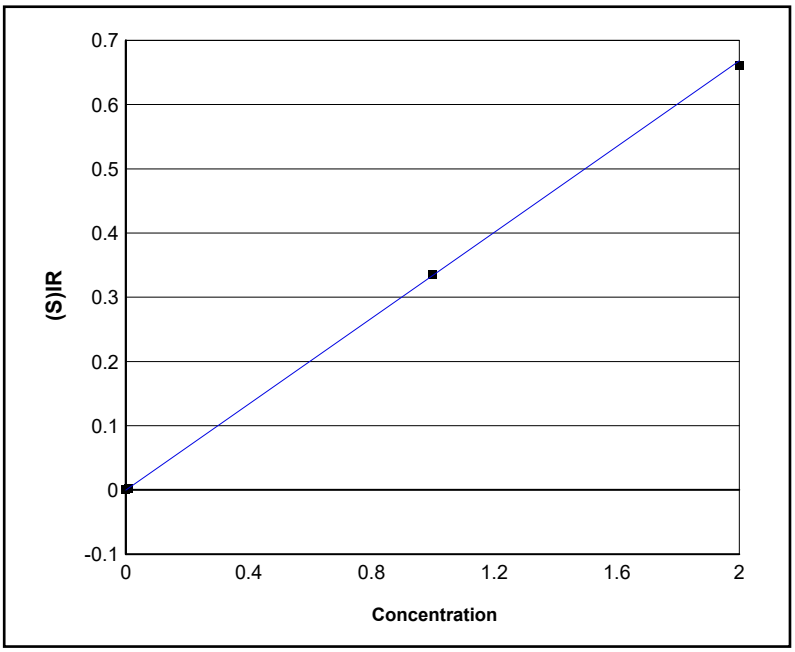
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000004444	0.0000004444	0.00000	-0.00026769	0.000047194	1
IC-7019501	0.010000	0.0094945	-0.00050552	-5.0552	0.0065855	0.00015848	1
IC-7032336	1.0000	1.0117	0.011713	1.1713	0.73067	0.00010277	1
IC-7019492	2.0000	1.9888	-0.011208	-0.56042	1.4366	0.00074103	1



Element Name:	P
Element Wavelength:	P 213.618 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-5.027
A1 (Gain):	0.2010
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

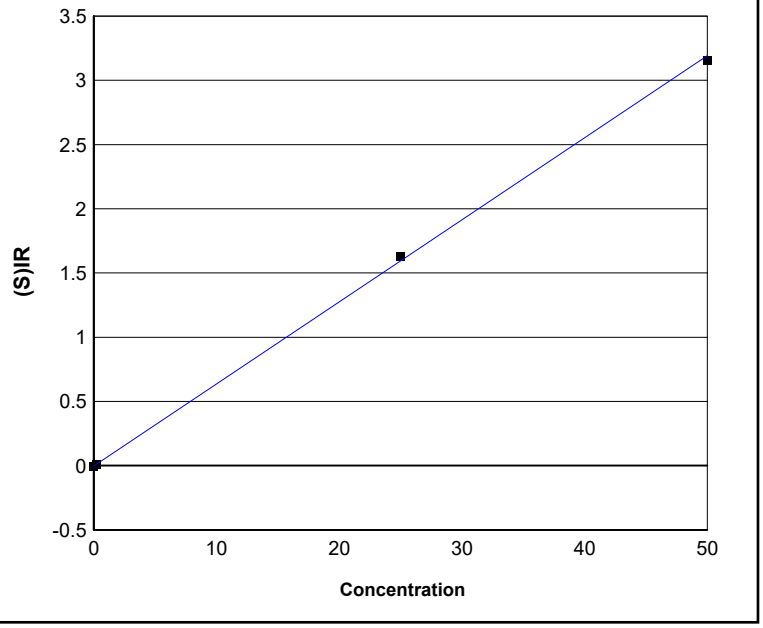
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-7019501	25.00	25.00	0.0000000000	0.0000000000	-0.003043	0.0001133	1
IC-7019492	50.00	50.00	0.0000000000	0.0000000000	5.021	0.003271	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.00019229
A1 (Gain):	0.33413
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

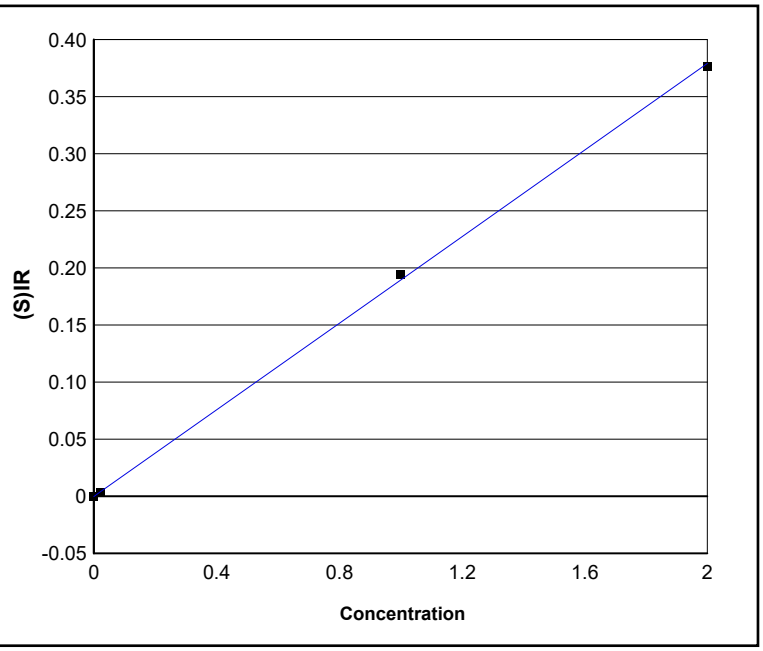
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000002790	0.0000002790	0.00000	-0.00019220	0.00030280	1
IC-7019501	0.010000	0.0096606	-0.00033943	-3.3943	0.0030281	0.00014105	1
IC-7032336	1.0000	1.0117	0.011740	1.1740	0.33634	0.00064779	1
IC-7019492	2.0000	1.9886	-0.011399	-0.56997	0.66122	0.0015054	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99987
A0 (Offset):	-0.0021378
A1 (Gain):	0.063858
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

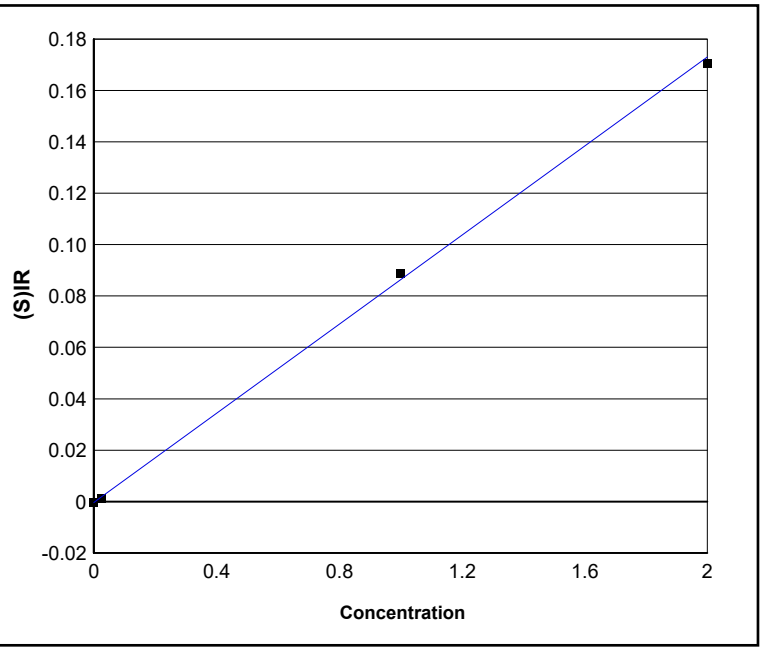
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000005371	-0.0000005371	0.00000	-0.0021378	0.00018600	1
IC-7019501	0.20000	0.19821	-0.0017903	-0.89513	0.010519	0.000077677	1
IC-7032336	25.000	25.580	0.58005	2.3202	1.6314	0.0024096	1
IC-7019492	50.000	49.422	-0.57826	-1.1565	3.1538	0.0018744	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99989
A0 (Offset):	-0.00028958
A1 (Gain):	0.18963
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

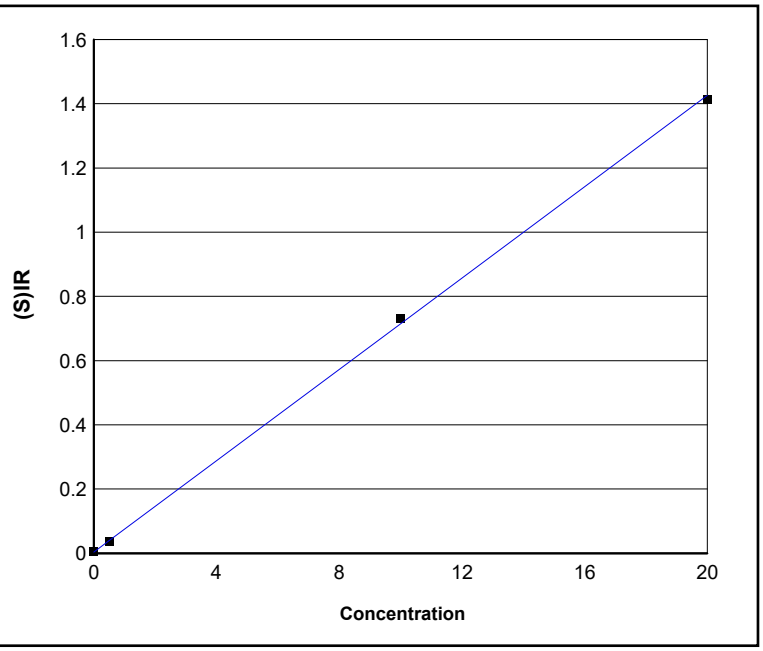
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000002948	-0.0000002948	0.00000	-0.00028964	0.00014096	1
IC-7019501	0.020000	0.020082	0.000081581	0.40791	0.0035280	0.00014017	1
IC-7032336	1.0000	1.0214	0.021408	2.1408	0.19433	0.00061266	1
IC-7019492	2.0000	1.9785	-0.021489	-1.0745	0.37675	0.00067512	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99921
A0 (Offset):	-0.00036281
A1 (Gain):	0.086703
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

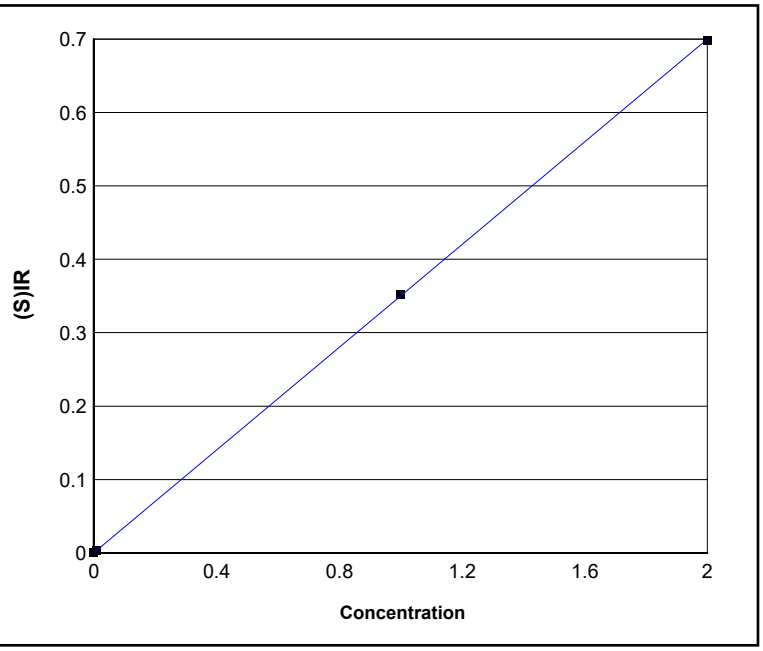
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000089079	0.0000089079	0.00000	-0.00036204	0.000031962	1
IC-7019501	0.025000	0.015586	-0.0094140	-37.656	0.00098827	0.00069166	1
IC-7032336	1.0000	1.0310	0.031033	3.1033	0.088692	0.00022394	1
IC-7019492	2.0000	1.9784	-0.021583	-1.0792	0.17050	0.00075671	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99982
A0 (Offset):	0.0039858
A1 (Gain):	0.071119
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

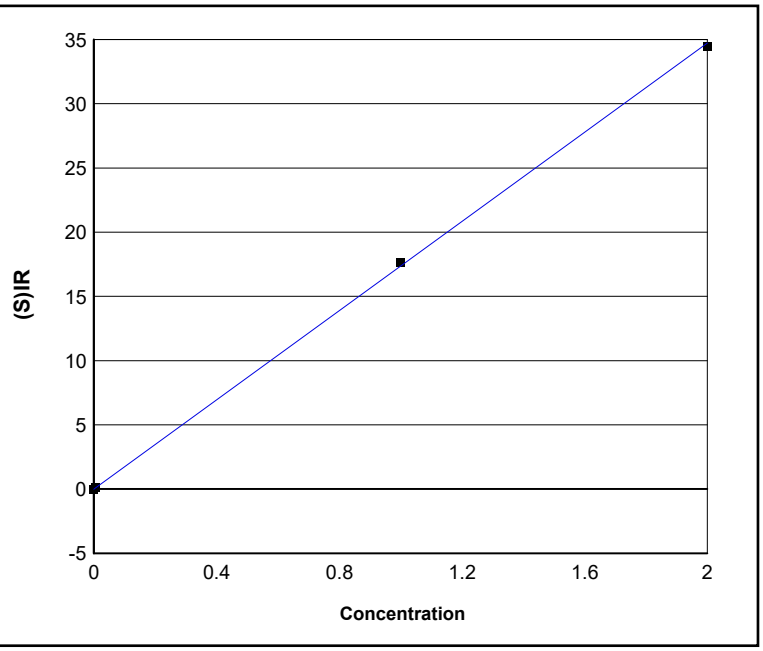
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.000030622	0.000030622	0.00000	0.0039880	0.000095421	1
IC-7019501	0.50000	0.46231	-0.037689	-7.5378	0.036865	0.00049420	1
IC-7032336	10.000	10.245	0.24500	2.4500	0.73260	0.0010066	1
IC-7019492	20.000	19.793	-0.20731	-1.0365	1.4116	0.0076581	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.00014328
A1 (Gain):	0.34988
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

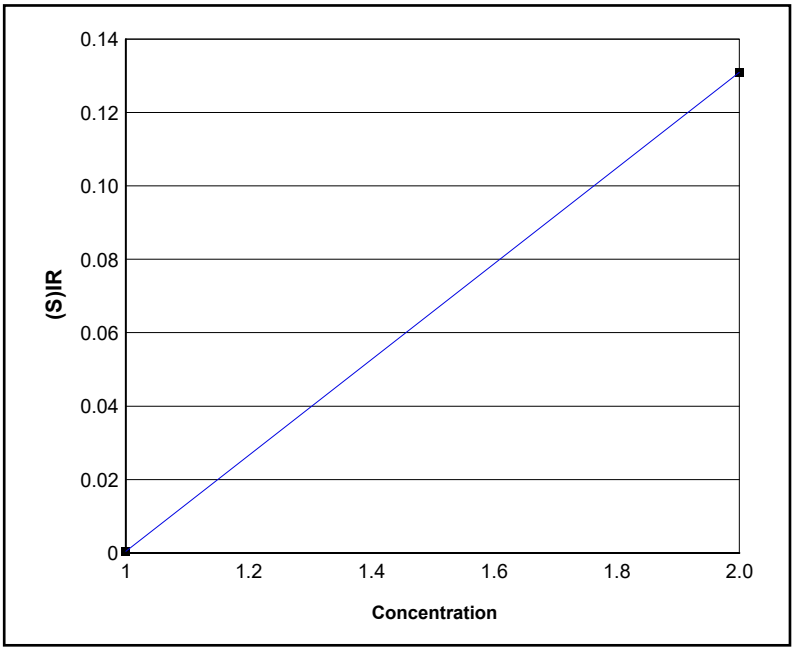
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000009635	0.0000009635	0.00000	0.00014362	0.00016825	1
IC-7019501	0.010000	0.0089949	-0.0010051	-10.051	0.0032905	0.0000029715	1
IC-7032336	1.0000	1.0073	0.0072968	0.72968	0.35258	0.00068267	1
IC-7019492	2.0000	1.9937	-0.0062917	-0.31458	0.69771	0.00017751	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	-0.0018757
A1 (Gain):	17.364
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

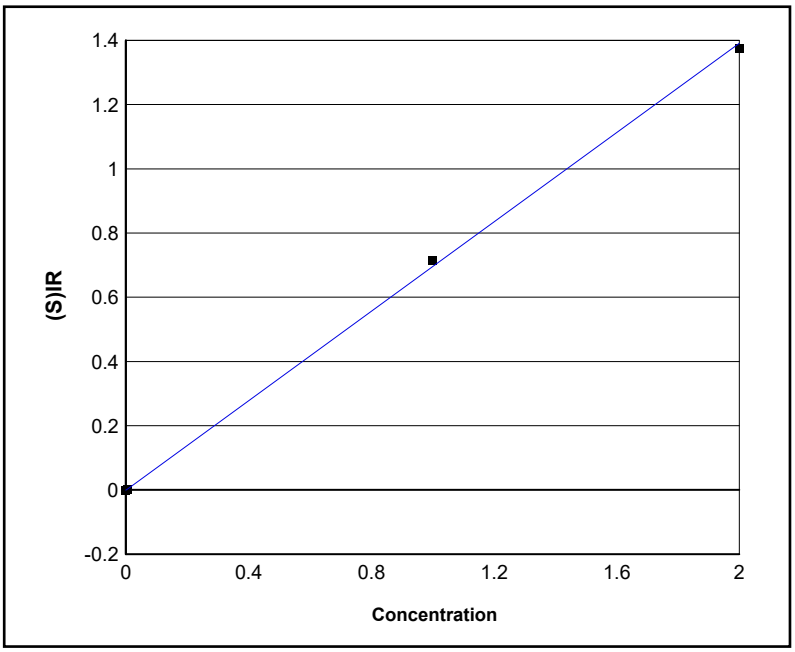
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000001041	-0.0000001041	0.00000	-0.0018775	0.0013053	1
IC-7019501	0.0050000	0.0050611	0.000061136	1.2227	0.086008	0.0012552	1
IC-7032336	1.0000	1.0172	0.017248	1.7248	17.662	0.0015728	1
IC-7019492	2.0000	1.9827	-0.017310	-0.86548	34.426	0.20645	1



Element Name:	Th
Element Wavelength:	Th 283.730 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-0.1302
A1 (Gain):	0.1306
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

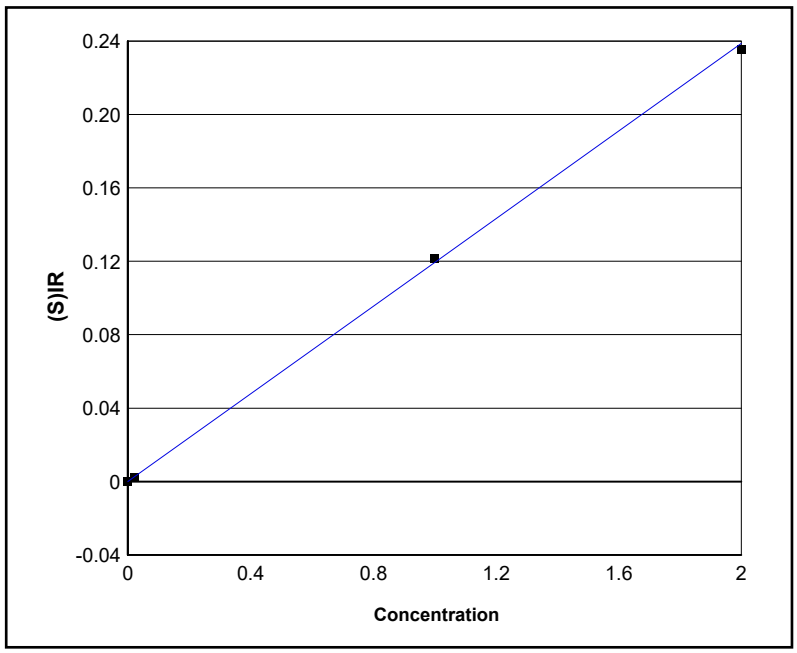
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-7019501	1.000	1.0000	0.0000000000	0.0000000000	0.0004147	0.0008659	1
IC-7019492	2.000	2.000	0.0000	0.0000	0.1310	0.0004018	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99981
A0 (Offset):	-0.00070966
A1 (Gain):	0.69606
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

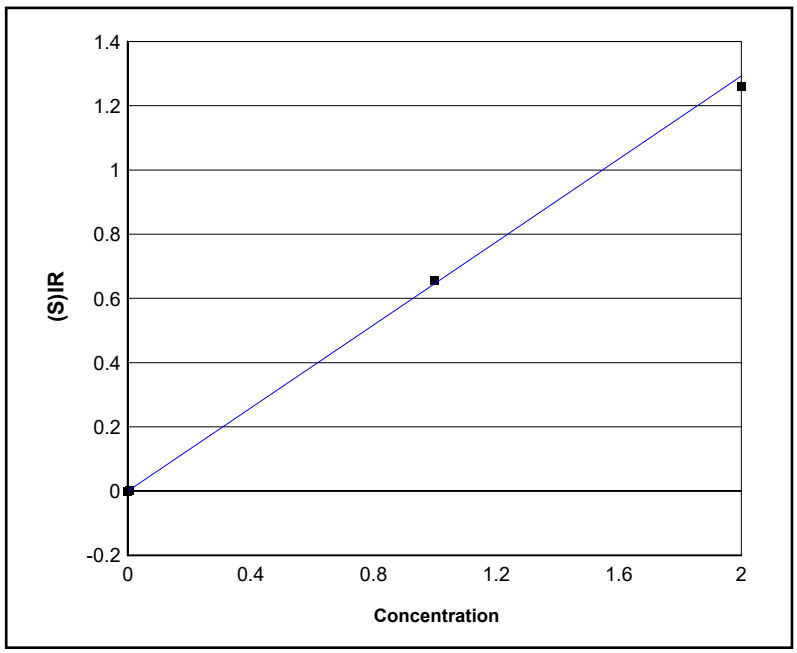
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000003416	-0.0000003416	0.00000	-0.00070990	0.00053566	1
IC-7019501	0.0050000	0.0052734	0.00027342	5.4684	0.0029716	0.000051412	1
IC-7032336	1.0000	1.0275	0.027531	2.7531	0.71558	0.00041574	1
IC-7019492	2.0000	1.9722	-0.027805	-1.3902	1.3742	0.0058112	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99985
A0 (Offset):	-0.000069763
A1 (Gain):	0.11945
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

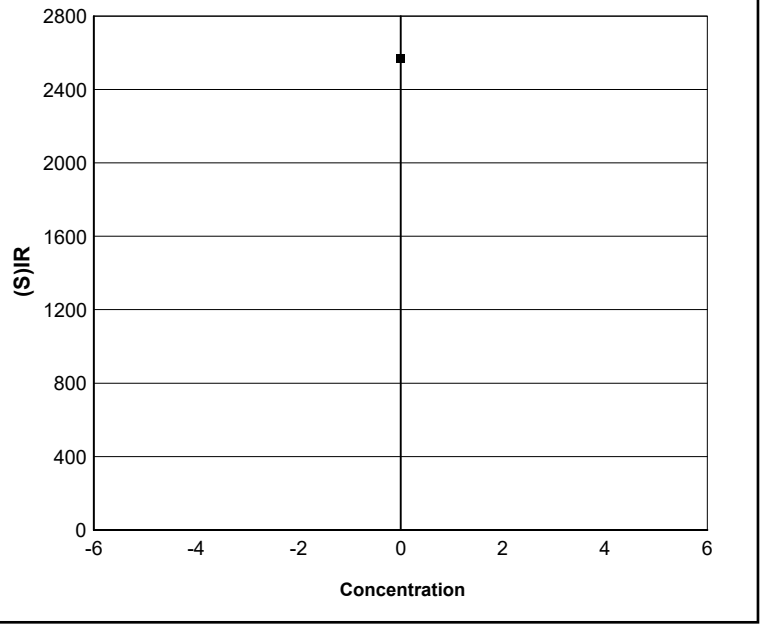
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000015770	0.0000015770	0.00000	-0.000069575	0.00011477	1
IC-7019501	0.020000	0.018176	-0.0018242	-9.1211	0.0020990	0.000071228	1
IC-7032336	1.0000	1.0229	0.022892	2.2892	0.12171	0.00022485	1
IC-7019492	2.0000	1.9789	-0.021063	-1.0532	0.23550	0.00019789	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99981
A0 (Offset):	-0.000070561
A1 (Gain):	0.64626
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

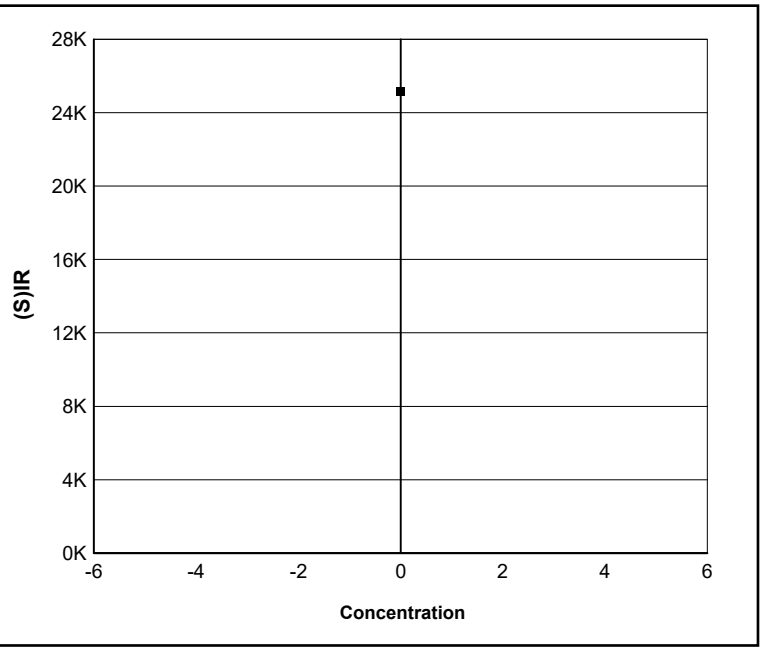
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000002564	0.0000002564	0.00000	-0.000070395	0.000065905	1
IC-7019501	0.0050000	0.0046749	-0.00032507	-6.5015	0.0028624	0.000052431	1
IC-7032336	1.0000	1.0271	0.027139	2.7139	0.65537	0.00064693	1
IC-7019492	2.0000	1.9732	-0.026818	-1.3409	1.2584	0.0075445	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 10:49:00AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

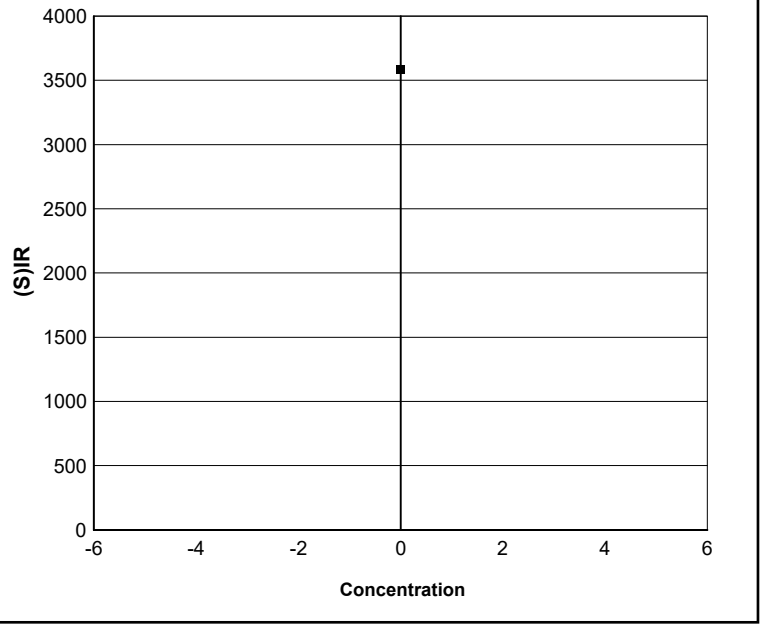
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000			0.0000	2,567	0.3624	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 10:49:00AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

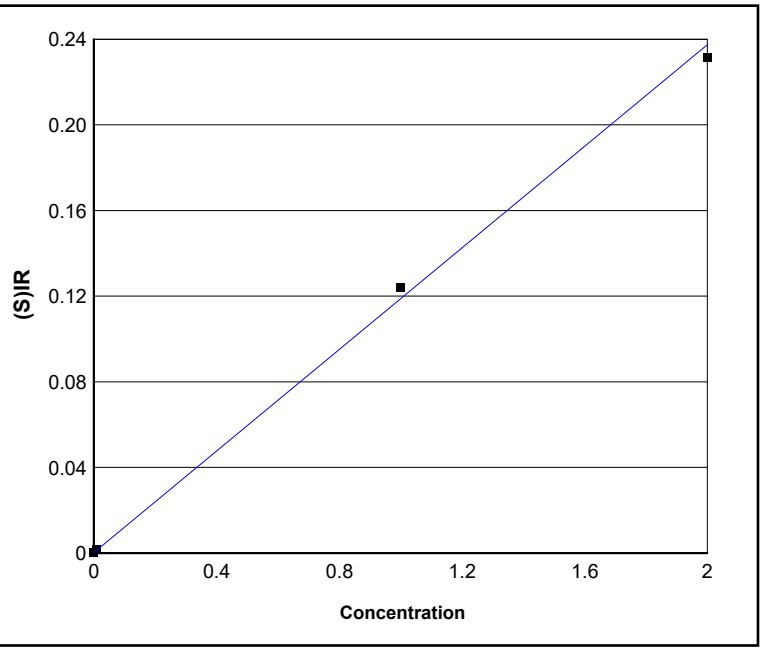
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000			0.0000	25,170	47.98	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 10:49:00AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

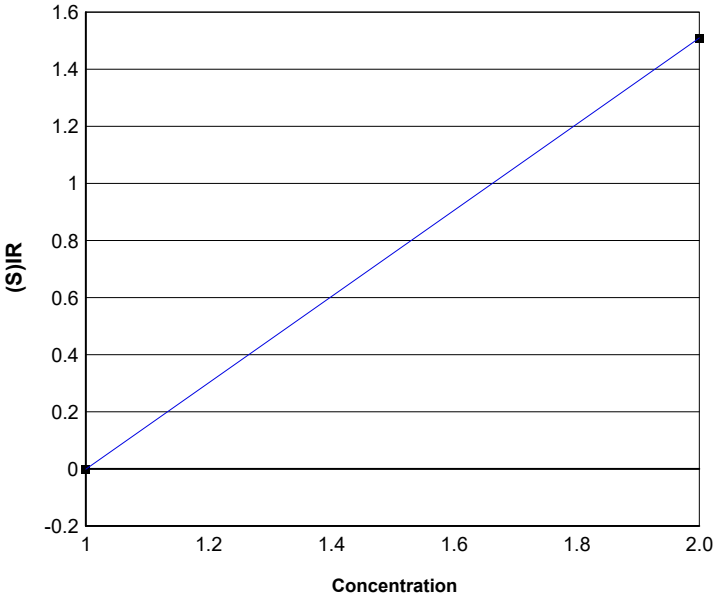
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.0000			0.0000	3,583	16.59	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	0.99948
A0 (Offset):	0.00028712
A1 (Gain):	0.11856
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-7026764	0.00000	0.0000007745	-0.0000007745	0.00000	0.00028702	0.000021408	1
IC-7019501	0.010000	0.010550	0.00055015	5.5015	0.0015372	0.000015527	1
IC-7032336	1.0000	1.0454	0.045424	4.5424	0.12406	0.00019782	1
IC-7019492	2.0000	1.9540	-0.045974	-2.2987	0.23161	0.00095388	1



Element Name:	Zr
Element Wavelength:	Zr 343.823 nm
Concentration Units:	ppm
Date of Calibration:	6/15/2022 11:00:16AM
Date of Fit:	6/15/2022 11:52:07AM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-1.512
A1 (Gain):	1.511
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-7019501	1.000	1.0000	0.0000000000	0.0000000000	-0.001398	0.002238	1
IC-7019492	2.000	2.000	0.0000000000	0.0000000000	1.509	0.007881	1

Sample Name: ICIS-7026764 Acquired: 6/15/2022 10:45:10 Type: Cal
Method: ICAP2 New stds DEC2019(v989) Mode: IR Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00050**	**.00372**	**-.00071**	**.00114**	**.01800**
Stddev	.00008	.00067	.00002	.00039	.00022
%RSD	16.019	17.960	3.0726	34.152	1.2113
#1	-.00056	.00419	-.00070	.00087	.01785
#2	-.00044	.00325	-.00073	.00142	.01815

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00493**	**-.01004**	**.01295**	**.00026**	**-.0020**
Stddev	.00011	.00118	.00241	.00001	.0010
%RSD	2.1963	11.757	18.579	4.1510	49.92
#1	.00486	-.01087	.01465	.00026	-.0013
#2	.00501	-.00920	.01125	.00027	-.0028

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00036**	**.00007**	**-.00349**	**.00204**	**-.00030**
Stddev	.00010	.00007	.00009	.00063	.00054
%RSD	28.775	103.83	2.5282	30.802	181.18
#1	.00043	.00012	-.00355	.00248	.00008
#2	.00029	.00002	-.00343	.00160	-.00068

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00937**	**.00154**	**.00001**	**.00109**	**.00012**
Stddev	.00526	.00133	.00013	.00019	.00000
%RSD	56.143	86.826	928.02	17.266	3.2483
#1	-.01309	.00059	.00010	.00096	.00012
#2	-.00565	.00248	-.00008	.00122	.00013

Sample Name: ICIS-7026764 Acquired: 6/15/2022 10:45:10 Type: Cal
Method: ICAP2 New stds DEC2019(v989) Mode: IR Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00002**	**-.01837**	**-.01723**	**-.00027**	**-.00019**
Stddev	.00016	.00359	.00021	.00005	.00030
%RSD	882.57	19.548	1.2288	17.630	157.55
#1	-.00010	-.02091	-.01708	-.00023	-.00041
#2	.00013	-.01583	-.01738	-.00030	.00002

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00214**	**-.00029**	**-.00036**	**.00399**	**.00014**
Stddev	.00019	.00014	.00003	.00010	.00017
%RSD	8.7004	48.669	8.8283	2.3927	117.15
#1	-.00201	-.00039	-.00038	.00406	.00026
#2	-.00227	-.00019	-.00034	.00392	.00002

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00188**	**-.00071**	**-.00007**	**-.00007**	**.00029**
Stddev	.00131	.00054	.00011	.00007	.00002
%RSD	69.525	75.456	164.96	93.621	7.4585
#1	-.00095	-.00033	-.00015	-.00002	.00030
#2	-.00280	-.00109	.00001	-.00012	.00027

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3202.8**	**2567.2**	**25168.**	**3583.5**
Stddev	2.8	.4	48.	16.6
%RSD	.08858	.01412	.19065	.46300
#1	3204.8	2567.5	25202.	3571.7
#2	3200.8	2567.0	25134.	3595.2

Sample Name: IC-7019501 Acquired: 6/15/2022 10:49:05 Type: Cal
Method: ICAP2 New stds DEC2019(v989) Mode: IR Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00256**	**.01351**	**.00166**	**.01465**	**.03587**
Stddev	.00028	.00063	.00014	.00006	.00219
%RSD	10.972	4.6728	8.2353	.40834	6.1116
#1	.00276	.01396	.00156	.01460	.03432
#2	.00237	.01307	.00176	.01469	.03742

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.04029**	**.01962**	**.22543**	**.00790**	**.00810**
Stddev	.00024	.00117	.00088	.00025	.00029
%RSD	.58984	5.9617	.39168	3.2087	3.5411
#1	.04013	.02045	.22481	.00808	.00830
#2	.04046	.01879	.22606	.00772	.00790

Elem	Cr2677	Cu3273	Fe2599	Fe2714	K_7664
Line	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}	766.490 { 44}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00186**	**.00156**	**.01448**	**.00196**	**.04931**
Stddev	.00005	.00008	.00030	.00137	.00032
%RSD	2.7759	4.8397	2.0832	70.158	.65601
#1	.00183	.00150	.01427	.00099	.04954
#2	.00190	.00161	.01469	.00293	.04908

Elem	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020
Line	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2	202.030 {467}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.09774**	**.00962**	**.00965**	**.00075**	**.00962**
Stddev	.00551	.00001	.00012	.00015	.00018
%RSD	5.6368	.13348	1.2573	20.043	1.9145
#1	.09384	.00961	.00956	.00086	.00975
#2	.10163	.00963	.00973	.00065	.00949

Sample Name: IC-7019501 Acquired: 6/15/2022 10:49:05 Type: Cal
Method: ICAP2 New stds DEC2019(v989) Mode: IR Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Na8183	Ni2316	P_2136	Pb2203
Line	589.592 { 57}	818.326 { 41}	231.604 {446}	213.618 {458}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.46120**	**-.00034**	**.00659**	**-.0030**	**.00303**
Stddev	.00680	.00103	.00016	.0001	.00014
%RSD	1.4741	303.11	2.4065	3.723	4.6581
#1	.46601	-.00107	.00670	-.0030	.00293
#2	.45640	.00039	.00647	-.0031	.00313

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01052**	**.00353**	**.00099**	**.03686**	**.00329**
Stddev	.00008	.00014	.00069	.00049	.00000
%RSD	.73841	3.9732	69.987	1.3406	.09031
#1	.01057	.00343	.00050	.03652	.00329
#2	.01046	.00363	.00148	.03721	.00329

Elem	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Line	407.771 { 83}	283.730 {119}	334.904 {101}	190.856 {477}	292.402 {115}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.08601**	**.0004**	**.00297**	**.00210**	**.00286**
Stddev	.00126	.0009	.00005	.00007	.00005
%RSD	1.4594	208.8	1.7301	3.3934	1.8317
#1	.08512	.0010	.00301	.00205	.00283
#2	.08690	-.0002	.00294	.00215	.00290

Elem	Zn2062	Zr3438
Line	206.200 {163}	343.823 { 98}
Units	Cts/S	Cts/S
Avg	**.00154**	**-.0014**
Stddev	.00002	.0022
%RSD	1.0101	160.1
#1	.00153	-.0030
#2	.00155	.0002

Sample Name: IC-7019501 Acquired: 6/15/2022 10:49:05 Type: Cal
Method: ICAP2 New stds DEC2019(v989) Mode: IR Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3189.9**	**2562.6**	**24999.**	**3595.9**
Stddev	.9	.6	137.	9.7
%RSD	.02715	.02491	.54910	.26842
#1	3190.5	2563.0	24902.	3602.7
#2	3189.3	2562.1	25097.	3589.1

Sample Name: IC-7032336 Acquired: 6/15/2022 10:52:59 Type: Cal
Method: ICAP2 New stds DEC2019(v989) Mode: IR Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.52687**	**2.5438**	**.14868**	**.73260**	**10.817**
Stddev	.00053	.0061	.00004	.00093	.006
%RSD	.10037	.23999	.02542	.12675	.05400
#1	.52650	2.5395	.14871	.73325	10.813
#2	.52725	2.5482	.14865	.73194	10.821

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**17.054**	**14.769**	**21.176**	**3.8144**	**.0608**
Stddev	.091	.045	.047	.0039	.0001
%RSD	.53188	.30239	.22100	.10141	.1022
#1	16.990	14.738	21.143	3.8171	.0609
#2	17.118	14.801	21.209	3.8117	.0608

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.0313**	**.45970**	**.48662**	**13.337**	**.88883**
Stddev	.0045	.00058	.00130	.041	.00373
%RSD	.22011	.12723	.26727	.30899	.41991
#1	2.0345	.45929	.48754	13.308	.88620
#2	2.0282	.46012	.48570	13.366	.89147

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6.0040**	**3.6672**	**2.4411**	**2.5817**	**.18643**
Stddev	.0091	.0048	.0016	.0055	.00028
%RSD	.15195	.13140	.06471	.21380	.14845
#1	5.9975	3.6638	2.4422	2.5778	.18662
#2	6.0104	3.6706	2.4400	2.5856	.18623

Sample Name: IC-7032336 Acquired: 6/15/2022 10:52:59 Type: Cal
Method: ICAP2 New stds DEC2019(v989) Mode: IR Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.94479**	**25.321**	**.84766**	**.73067**	**.33634**
Stddev	.00170	.050	.00213	.00010	.00065
%RSD	.17979	.19692	.25085	.01407	.19260
#1	.94599	25.286	.84616	.73060	.33680
#2	.94359	25.357	.84917	.73074	.33588

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.6314**	**.19433**	**.08869**	**.73260**	**.35258**
Stddev	.0024	.00061	.00022	.00101	.00068
%RSD	.14771	.31527	.25249	.13740	.19362
#1	1.6331	.19476	.08885	.73189	.35210
#2	1.6296	.19389	.08853	.73331	.35306

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**17.662**	**.71558**	**.12171**	**.65537**	**.12406**
Stddev	.002	.00042	.00022	.00065	.00020
%RSD	.00890	.05810	.18475	.09871	.15946
#1	17.661	.71529	.12155	.65491	.12392
#2	17.663	.71587	.12187	.65582	.12420

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2718.4**	**2435.5**	**23213.**	**3515.5**
Stddev	1.5	4.2	.	19.1
%RSD	.05562	.17362	.00008	.54463
#1	2719.5	2438.5	23213.	3529.1
#2	2717.3	2432.5	23213.	3502.0

Sample Name: IC-7019492 Acquired: 6/15/2022 10:56:40 Type: Cal
Method: ICAP2 New stds DEC2019(v989) Mode: IR Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.0229**	**4.9361**	**.28807**	**1.3755**	**21.138**
Stddev	.0057	.0272	.00027	.0027	.128
%RSD	.55972	.55103	.09302	.19986	.60323
#1	1.0189	4.9553	.28788	1.3735	21.228
#2	1.0270	4.9168	.28826	1.3774	21.048

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**32.353**	**28.637**	**41.285**	**7.3811**	**.1206**
Stddev	.091	.206	.270	.0045	.0035
%RSD	.28042	.71937	.65375	.06104	2.883
#1	32.417	28.783	41.476	7.3780	.1230
#2	32.288	28.491	41.094	7.3843	.1181

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.0165**	**.87341**	**.94439**	**25.713**	**1.7057**
Stddev	.0006	.00467	.00610	.173	.0055
%RSD	.01377	.53504	.64605	.67259	.32361
#1	4.0169	.87011	.94008	25.836	1.7096
#2	4.0161	.87671	.94871	25.591	1.7018

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12.113**	**7.3070**	**4.6888**	**4.9193**	**.35598**
Stddev	.081	.0247	.0240	.0334	.00035
%RSD	.66464	.33818	.51210	.67836	.09724
#1	12.170	7.3244	4.6718	4.8957	.35574
#2	12.056	7.2895	4.7058	4.9429	.35622

Sample Name: IC-7019492 Acquired: 6/15/2022 10:56:40 Type: Cal
Method: ICAP2 New stds DEC2019(v989) Mode: IR Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	P_2136
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	213.618 {458}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.8198**	**50.226**	**1.6707**	**1.4366**	**5.021**
Stddev	.0009	.243	.0035	.0007	.003
%RSD	.05012	.48344	.20690	.05158	.0651
#1	1.8192	50.398	1.6731	1.4361	5.019
#2	1.8205	50.055	1.6682	1.4371	5.023

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.66122**	**3.1538**	**.37675**	**.17050**	**1.4116**
Stddev	.00151	.0019	.00068	.00076	.0077
%RSD	.22768	.05943	.17920	.44383	.54250
#1	.66229	3.1525	.37627	.17103	1.4170
#2	.66016	3.1552	.37723	.16996	1.4062

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908
Line	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}	190.856 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.69771**	**34.426**	**.1310**	**1.3742**	**.23550**
Stddev	.00018	.206	.0004	.0058	.00020
%RSD	.02544	.59969	.3068	.42288	.08403
#1	.69759	34.572	.1313	1.3701	.23564
#2	.69784	34.280	.1307	1.3783	.23536

Elem	V_2924	Zn2062	Zr3438
Line	292.402 {115}	206.200 {163}	343.823 { 98}
Units	Cts/S	Cts/S	Cts/S
Avg	**1.2584**	**.23161**	**1.509**
Stddev	.0075	.00095	.008
%RSD	.59953	.41185	.5222
#1	1.2531	.23093	1.515
#2	1.2637	.23228	1.504

Sample Name: IC-7019492 Acquired: 6/15/2022 10:56:40 Type: Cal
Method: ICAP2 New stds DEC2019(v989) Mode: IR Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2583.1**	**2412.0**	**22752.**	**3415.9**
Stddev	.7	1.9	28.	31.8
%RSD	.02838	.07861	.12382	.93229
#1	2583.6	2413.4	22732.	3393.3
#2	2582.6	2410.7	22771.	3438.4

Sample Name: ICV-7032328 Acquired: 6/15/2022 11:00:22 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.76590**	**37.219**	**.75842**	W **.78971**	**.74847**
Stddev	.00205	.030	.00068	.00069	.00018
%RSD	.26721	.08145	.08958	.08717	.02389
#1	.76445	37.240	.75794	.78922	.74859
#2	.76734	37.197	.75890	.79020	.74834
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				.75000	
Range				5.0000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.76053**	**37.595**	**.75408**	**.0109**	**.74445**
Stddev	.00034	.035	.00012	.0255	.00037
%RSD	.04498	.09288	.01617	232.7	.04964
#1	.76029	37.620	.75399	-.0071	.74419
#2	.76077	37.571	.75417	.0289	.74471
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.77227**	**.74868**	**38.088**	**36.235**	**.73314**
Stddev	.00263	.00456	.017	.019	.00074
%RSD	.34002	.60863	.04453	.05299	.10109
#1	.77412	.75191	38.100	36.221	.73261
#2	.77041	.74546	38.076	36.248	.73366
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICV-7032328 Acquired: 6/15/2022 11:00:22 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.036**	**.77579**	**.76890**	**36.530**	**.75151**
Stddev	.015	.00112	.00034	.012	.00188
%RSD	.04073	.14419	.04479	.03374	.25051
#1	38.025	.77500	.76866	36.538	.75018
#2	38.047	.77658	.76915	36.521	.75284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.67**	**.74977**	**18.939**	**.77128**	**.78275**
Stddev	.00	.00188	.017	.00287	.00277
%RSD	.0058	.25064	.08993	.37227	.35410
#1	34.67	.74844	18.951	.77331	.78471
#2	34.67	.75110	18.927	.76924	.78079
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	W **7.9350**	**.73472**	**.75203**	**1.029**	**.76046**
Stddev	.0176	.00047	.00054	.005	.00024
%RSD	.22121	.06362	.07212	.5161	.03202
#1	7.9226	.73439	.75241	1.033	.76063
#2	7.9474	.73505	.75164	1.026	.76029
Check ?	Chk Warn	Chk Pass	Chk Pass	None	Chk Pass
Value	7.5000				
Range	5.0000%				

Sample Name: ICV-7032328 Acquired: 6/15/2022 11:00:22 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.76745**	**.75959**	**.77486**	**1.002**
Stddev	.00015	.00146	.00301	.001
%RSD	.01918	.19286	.38870	.0478
#1	.76756	.76063	.77273	1.002
#2	.76735	.75856	.77699	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2758.3**	**2446.7**	**23245.**	**3438.1**
Stddev	.2	3.1	45.	1.9
%RSD	.00850	.12682	.19148	.05650
#1	2758.1	2444.5	23277.	3436.7
#2	2758.5	2448.9	23214.	3439.4

Sample Name: ICB-7026764 Acquired: 6/15/2022 11:04:05 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**-.00704**	**.00066**	**.00249**	**.00012**
Stddev	.00009	.01543	.00029	.00085	.00002
%RSD	17.045	219.22	43.219	34.084	13.325
#1	.00058	.00387	.00046	.00309	.00010
#2	.00046	-.01795	.00086	.00189	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00453**	**.00003**	**.0074**	**.00013**
Stddev	.00011	.00016	.00001	.0156	.00007
%RSD	993.70	3.4962	32.379	210.3	50.953
#1	-.00007	-.00442	.00003	.0185	.00018
#2	.00009	-.00464	.00002	-.0036	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00086**	**.00019**	**.09785**	**-.00040**
Stddev	.00011	.00025	.00267	.00436	.00240
%RSD	56.096	29.357	1372.1	4.4582	594.19
#1	.00011	.00068	.00208	.10094	-.00210
#2	.00026	.00104	-.00169	.09477	.00129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-7026764 Acquired: 6/15/2022 11:04:05 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00475**	**-.00005**	**.00055**	**.01964**	**-.00003**
Stddev	.00094	.00001	.00011	.00073	.00029
%RSD	19.735	12.328	20.687	3.7111	1047.4
#1	.00541	-.00006	.00047	.02015	.00018
#2	.00409	-.00005	.00063	.01912	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00076**	**.00269**	**.00045**	**.00118**
Stddev	.00	.00012	.00168	.00160	.00212
%RSD	.0029	16.462	62.628	351.91	180.20
#1	25.02	-.00085	.00150	-.00067	-.00032
#2	25.02	-.00067	.00388	.00158	.00267
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01280**	**.00011**	**-.00008**	**.9987**	**.00014**
Stddev	.00883	.00014	.00008	.0011	.00066
%RSD	69.014	126.49	100.70	.1101	463.25
#1	-.01905	.00001	-.00014	.9979	-.00032
#2	-.00655	.00021	-.00002	.9995	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-7026764 Acquired: 6/15/2022 11:04:05 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00016**	**-.00003**	**-.00194**	**1.000**
Stddev	.00063	.00022	.00028	.000
%RSD	401.15	882.44	14.637	.0316
#1	-.00061	.00013	-.00174	1.000
#2	.00029	-.00018	-.00214	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3196.0**	**2561.1**	**25063.**	**3573.9**
Stddev	6.6	4.7	26.	4.5
%RSD	.20679	.18298	.10219	.12519
#1	3191.3	2557.7	25044.	3570.7
#2	3200.7	2564.4	25081.	3577.0

Sample Name: ICVL-7028546 Acquired: 6/15/2022 11:08:00 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00515**	**.16619**	**.01490**	**.02076**	**.00221**
Stddev	.00045	.01283	.00151	.00059	.00000
%RSD	8.7004	7.7208	10.167	2.8571	.09292
#1	.00547	.17526	.01597	.02034	.00221
#2	.00483	.15712	.01383	.02118	.00221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**.49539**	**.00194**	**.0278**	**.00367**
Stddev	.00001	.00346	.00011	.0358	.00015
%RSD	.54045	.69859	5.6212	129.0	3.9609
#1	.00209	.49294	.00186	.0024	.00357
#2	.00211	.49784	.00201	.0531	.00377
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00435**	**.01060**	**.05471**	**.37642**	**.02636**
Stddev	.00025	.00012	.00395	.06317	.00256
%RSD	5.7616	1.1112	7.2141	16.782	9.7208
#1	.00417	.01068	.05750	.42109	.02817
#2	.00453	.01051	.05192	.33175	.02455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-7028546 Acquired: 6/15/2022 11:08:00 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19989**	**.00334**	**.01019**	**.92331**	**.00971**
Stddev	.00025	.00001	.00023	.01104	.00043
%RSD	.12468	.39332	2.2467	1.1956	4.3819
#1	.19971	.00335	.01003	.93111	.00941
#2	.20007	.00333	.01035	.91550	.01001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00914**	**.19576**	**.01911**	**.02176**
Stddev	.00	.00051	.00008	.00174	.00174
%RSD	.0025	5.6135	.03942	9.1092	7.9872
#1	25.00	.00950	.19570	.01788	.02053
#2	25.00	.00877	.19581	.02034	.02299
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47001**	**.00912**	**.00501**	F **.9991**	**.00504**
Stddev	.01095	.00014	.00006	.0045	.00018
%RSD	2.3291	1.5089	1.2165	.4507	3.5169
#1	.47775	.00903	.00505	1.002	.00491
#2	.46226	.00922	.00496	.9960	.00516
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: ICVL-7028546 Acquired: 6/15/2022 11:08:00 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01958**	**.00519**	**.01043**	F **1.001**
Stddev	.00112	.00026	.00025	.000
%RSD	5.7331	5.0670	2.4329	.0318
#1	.01878	.00501	.01025	1.001
#2	.02037	.00538	.01061	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3176.3**	**2552.2**	**25006.**	**3617.2**
Stddev	5.2	4.2	32.	3.2
%RSD	.16410	.16394	.12814	.08743
#1	3172.6	2549.3	24984.	3619.5
#2	3180.0	2555.2	25029.	3615.0

Sample Name: ICSA-7017591 Acquired: 6/15/2022 11:11:55 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**490.77**	**-.00289**	**-.00168**	**.00780**
Stddev	.00024	.62	.00062	.00024	.00002
%RSD	49.518	.12594	21.262	14.443	.29657
#1	-.00031	490.33	-.00246	-.00185	.00782
#2	-.00064	491.21	-.00333	-.00151	.00779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**458.75**	**.00000**	**.0513**	**-.00019**
Stddev	.00001	1.94	.00014	.0051	.00002
%RSD	10.563	.42332	3310.1	9.970	9.8359
#1	-.00010	460.13	-.00010	.0477	-.00018
#2	-.00008	457.38	.00010	.0550	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00065**	**.00119**	**183.01**	**.07998**	**-.00511**
Stddev	.00011	.00029	.10	.01349	.00240
%RSD	16.941	24.142	.05382	16.870	47.045
#1	.00057	.00099	183.08	.07044	-.00681
#2	.00073	.00140	182.94	.08952	-.00341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-7017591 Acquired: 6/15/2022 11:11:55 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**509.63**	**-.00014**	**-.00176**	**.05985**	**.00091**
Stddev	3.24	.00000	.00017	.00678	.00013
%RSD	.63631	.81228	9.7024	11.320	14.739
#1	507.34	-.00014	-.00164	.06464	.00081
#2	511.92	-.00014	-.00188	.05506	.00100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.84**	**-.00098**	**-.06646**	**.00061**	**.00074**
Stddev	.00	.00234	.00113	.00304	.00152
%RSD	.0116	238.33	1.7012	501.49	206.89
#1	24.84	.00067	-.06726	.00275	-.00034
#2	24.85	-.00263	-.06566	-.00154	.00181
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02079**	**-.00093**	**.01252**	**1.074**	**.00193**
Stddev	.00285	.00114	.00002	.004	.00004
%RSD	13.704	121.99	.16576	.3340	1.9966
#1	-.01877	-.00173	.01253	1.071	.00190
#2	-.02280	-.00013	.01250	1.076	.00196
Check ?	None	Chk Pass	None	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-7017591 Acquired: 6/15/2022 11:11:55 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00517**	**-.00269**	**.00117**	**1.005**
Stddev	.00165	.00046	.00095	.001
%RSD	31.952	17.051	80.982	.0461
#1	-.00400	-.00236	.00050	1.006
#2	-.00634	-.00301	.00184	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2342.3**	**2264.2**	**21422.**	**3533.5**
Stddev	5.2	1.8	176.	6.8
%RSD	.22125	.08047	.82175	.19290
#1	2345.9	2265.5	21547.	3528.6
#2	2338.6	2262.9	21298.	3538.3

Sample Name: ICSAB-7019499 Acquired: 6/15/2022 11:15:55 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52148**	**484.92**	**.49015**	**4.6348**	**.51225**
Stddev	.00139	1.90	.00312	.0076	.00006
%RSD	.26560	.39102	.63640	.16382	.01267
#1	.52050	486.26	.48795	4.6294	.51229
#2	.52246	483.58	.49236	4.6401	.51220
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.24052**	**452.68**	**.49673**	**-.0113**	**.48856**
Stddev	.00077	2.78	.00016	.0266	.00021
%RSD	.32171	.61444	.03244	235.7	.04374
#1	.24106	454.64	.49662	-.0301	.48841
#2	.23997	450.71	.49685	.0075	.48871
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47855**	**.51722**	**181.70**	**4.9726**	**-.00358**
Stddev	.00031	.00095	.99	.0173	.00120
%RSD	.06459	.18281	.54660	.34736	33.418
#1	.47833	.51789	182.41	4.9848	-.00443
#2	.47877	.51655	181.00	4.9604	-.00273
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None
Value					
Range					

Sample Name: ICSAB-7019499 Acquired: 6/15/2022 11:15:55 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**497.71**	**.47736**	**.47085**	**4.9925**	**.47304**
Stddev	4.40	.00017	.00091	.0221	.00073
%RSD	.88447	.03646	.19252	.44189	.15482
#1	494.60	.47748	.47021	5.0081	.47356
#2	500.82	.47723	.47149	4.9769	.47252
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.94**	**.48090**	**-.05967**	**.47566**	**.48482**
Stddev	.00	.00071	.00090	.00318	.00490
%RSD	.0045	.14715	1.5166	.66828	1.0102
#1	26.94	.48040	-.05903	.47791	.48136
#2	26.95	.48140	-.06031	.47341	.48828
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.7782**	**.47755**	**.48926**	**1.075**	**.49278**
Stddev	.0206	.00037	.00082	.001	.00048
%RSD	.43195	.07755	.16847	.0864	.09812
#1	4.7928	.47781	.48984	1.074	.49312
#2	4.7636	.47729	.48867	1.076	.49244
Check ?	None	None	None	None	None
Value					
Range					

Sample Name: ICSAB-7019499 Acquired: 6/15/2022 11:15:55 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.47315**	**.47982**	**.44613**	**1.004**
Stddev	.00189	.00075	.00110	.001
%RSD	.39987	.15569	.24700	.1099
#1	.47449	.48035	.44535	1.005
#2	.47181	.47929	.44690	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2373.5**	**2292.0**	**21479.**	**3489.5**
Stddev	6.0	1.7	29.	13.7
%RSD	.25223	.07370	.13392	.39230
#1	2369.3	2290.8	21499.	3479.8
#2	2377.8	2293.1	21459.	3499.2

Sample Name: ICEX1 Acquired: 6/15/2022 11:19:46 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.11008**	**4.6902**	**.01116**	**.00002**
Stddev	.00058	.01837	.0017	.00192	.00003
%RSD	1358.3	16.689	.03667	17.192	111.78
#1	-.00037	-.12308	4.6914	.00980	.00004
#2	.00045	-.09709	4.6890	.01252	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**.03641**	**.00180**	**.0026**	**.00022**
Stddev	.00004	.00282	.00024	.0190	.00045
%RSD	8.2074	7.7456	13.432	740.9	201.25
#1	.00050	.03442	.00163	-.0109	-.00010
#2	.00044	.03841	.00197	.0160	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**24.845**	**.01124**	**-.01465**	**.00363**
Stddev	.00047	.307	.00272	.01747	.00011
%RSD	59.218	1.2355	24.167	119.23	3.1056
#1	.00113	24.628	.00932	-.02701	.00371
#2	.00046	25.062	.01316	-.00230	.00355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 6/15/2022 11:19:46 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01746**	**.00118**	**-.00093**	**.02582**	**.00010**
Stddev	.00430	.00005	.00017	.00533	.00009
%RSD	24.627	4.5767	17.822	20.647	94.858
#1	.02050	.00114	-.00105	.02959	.00016
#2	.01442	.00121	-.00081	.02205	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**-.00053**	**.00794**	**-.00022**	**-.00123**
Stddev	-----	.00146	.00065	.00044	.00213
%RSD	-----	272.77	8.2030	201.11	172.95
#1	^ -----	-.00156	.00748	-.00053	.00027
#2	^ -----	.00050	.00841	.00009	-.00274
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04134**	**.00027**	**-.00009**	**.9970**	F **.00810**
Stddev	.03426	.00035	.00001	.0108	.00034
%RSD	82.882	130.00	12.933	1.086	4.2471
#1	.01711	.00002	-.00009	.9893	.00786
#2	.06557	.00052	-.00008	1.005	.00835
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Fail
High Limit					.00500
Low Limit					-.00500

Sample Name: ICEX1 Acquired: 6/15/2022 11:19:46 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.01075**	**4.9232**	**.00002**	**1.001**
Stddev	.00064	.0146	.00025	.001
%RSD	5.9356	.29633	1191.0	.1351
#1	.01120	4.9128	-.00015	1.002
#2	.01029	4.9335	.00020	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3242.2**	**2595.2**	**25832.**	**3745.7**
Stddev	2.5	1.0	26.	2.2
%RSD	.07681	.03987	.10239	.05887
#1	3244.0	2594.5	25850.	3744.1
#2	3240.5	2596.0	25813.	3747.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.23%	101.09%	102.64%	104.53%
Range				

Sample Name: ICEX2 Acquired: 6/15/2022 11:23:49 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00202**	**.09045**	**-.00194**	**.00400**	**.00020**
Stddev	.00084	.08872	.00113	.00004	.00000
%RSD	41.778	98.077	58.480	.93357	1.7606
#1	.00142	.15319	-.00114	.00397	.00021
#2	.00261	.02772	-.00274	.00402	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.12737**	**.00062**	**.0287**	**.00064**
Stddev	.00000	.08131	.00001	.0046	.00003
%RSD	22.454	63.836	.93037	16.03	4.8139
#1	.00002	.18486	.00062	.0255	.00066
#2	.00001	.06988	.00061	.0320	.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00156**	**.00842**	**.03312**	**.03322**	**9.3317**
Stddev	.00016	.00065	.03651	.00727	.0188
%RSD	10.157	7.7036	110.23	21.888	.20168
#1	.00144	.00796	.05894	.02808	9.3450
#2	.00167	.00888	.00730	.03836	9.3184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 6/15/2022 11:23:49 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00222**	**.00067**	**.00124**	**.02710**	**.00552**
Stddev	.00058	.00003	.00016	.00408	.00002
%RSD	25.905	4.3966	12.605	15.062	.36590
#1	-.00182	.00065	.00113	.02998	.00551
#2	-.00263	.00069	.00135	.02421	.00554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00407**	**.00834**	**.00292**	**.00254**
Stddev	.00	.00111	.00003	.00102	.00117
%RSD	.0014	27.216	.30827	35.092	46.019
#1	25.01	.00329	.00836	.00220	.00171
#2	25.01	.00486	.00832	.00365	.00337
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.353**	**.00014**	**.00016**	**.9969**	**19.286**
Stddev	.232	.00047	.00017	.0020	.052
%RSD	.46991	343.19	106.75	.2000	.27169
#1	49.189	-.00019	.00028	.9955	19.323
#2	49.517	.00047	.00004	.9983	19.249
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 6/15/2022 11:23:49 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**18.938**	**-.00000**	**.00620**	**1.001**
Stddev	.045	.00008	.00008	.000
%RSD	.23897	2144.7	1.2777	.0242
#1	18.970	.00005	.00625	1.001
#2	18.906	-.00006	.00614	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3019.2**	**2532.9**	**24530.**	**3598.7**
Stddev	5.4	.4	17.	14.6
%RSD	.17863	.01612	.07124	.40602
#1	3015.4	2533.2	24518.	3609.0
#2	3023.1	2532.6	24543.	3588.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.268%	98.661%	97.467%	100.42%
Range				

Sample Name: ICEX3 Acquired: 6/15/2022 11:27:47 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00233**	F **.52934**	**.00215**	**.00194**	**-.00001**
Stddev	.00052	.62558	.00268	.00009	.00001
%RSD	22.336	118.18	124.81	4.6706	85.190
#1	-.00196	.97169	.00025	.00200	-.00000
#2	-.00269	.08699	.00405	.00188	-.00002
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.20000			
Low Limit		-.20000			

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	F **.51539**	**.00037**	**-.2396**	**.00001**
Stddev	.00024	.62466	.00004	.0160	.00018
%RSD	123.96	121.20	10.936	6.669	1711.3
#1	.00037	.95709	.00040	-.2283	-.00011
#2	.00002	.07369	.00034	-.2509	.00013
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.50000			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00085**	**.00453**	F **.19989**	**.02301**	**.01508**
Stddev	.00022	.00045	.25528	.01999	.02084
%RSD	25.554	9.8363	127.71	86.868	138.16
#1	.00069	.00485	.38040	.00888	.02982
#2	.00100	.00422	.01939	.03715	.00035
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			.05000		
Low Limit			-.05000		

Sample Name: ICEX3 Acquired: 6/15/2022 11:27:47 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01831**	**49.768**	**-.00190**	**.01490**	**.00014**
Stddev	.00161	.050	.00007	.00529	.00037
%RSD	8.7852	.10116	3.8974	35.493	256.28
#1	-.01717	49.804	-.00185	.01864	.00041
#2	-.01945	49.733	-.00195	.01116	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00424**	**91.057**	**-.00167**	**-.00192**
Stddev	.00	.00026	.110	.00042	.00175
%RSD	.0013	6.1977	.12047	25.206	91.113
#1	25.01	.00405	90.979	-.00137	-.00068
#2	25.01	.00442	91.134	-.00196	-.00315
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11252**	**.00001**	**.00033**	**.9962**	**.00240**
Stddev	.12751	.00001	.00044	.0042	.00005
%RSD	113.32	115.64	132.70	.4166	2.1117
#1	.20268	.00000	.00064	.9991	.00237
#2	.02236	.00002	.00002	.9933	.00244
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 6/15/2022 11:27:47 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.01102**	**.00094**	**.00009**	**.9844**
Stddev	.00122	.00015	.00011	.0002
%RSD	11.039	15.839	120.85	.0220
#1	-.01188	.00104	.00001	.9843
#2	-.01016	.00083	.00017	.9846
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3161.4**	**2557.1**	**25035.**	**3585.6**
Stddev	10.4	5.4	36.	15.5
%RSD	.32946	.21255	.14263	.43260
#1	3168.8	2560.9	25060.	3574.6
#2	3154.0	2553.2	25010.	3596.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.706%	99.604%	99.471%	100.06%
Range				

Sample Name: ICEX4 Acquired: 6/15/2022 11:31:51 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**-.02338**	**.00057**	**-.00002**	**.00009**
Stddev	.00005	.00858	.00110	.00016	.00001
%RSD	8.4830	36.713	193.20	896.87	10.186
#1	-.00053	-.02945	.00134	-.00013	.00009
#2	-.00060	-.01731	-.00021	.00010	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00672**	**-.00033**	**.0252**	**18.100**
Stddev	.00001	.00226	.00004	.0315	.006
%RSD	5.4495	33.611	12.402	125.1	.03261
#1	-.00015	.00512	-.00030	.0029	18.105
#2	-.00016	.00832	-.00036	.0474	18.096
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8913**	**.00404**	**.00044**	**.03786**	**.00005**
Stddev	.0059	.00037	.00375	.04163	.00031
%RSD	.05979	9.0267	844.08	109.96	559.07
#1	9.8955	.00379	.00309	.00842	-.00016
#2	9.8871	.00430	-.00221	.06730	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 6/15/2022 11:31:51 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	F **.00991**	**.00030**	**.01590**	**9.1540**
Stddev	.00477	.00001	.00005	.00091	.0020
%RSD	10823.	.05163	16.818	5.6963	.02190
#1	.00342	.00991	.00026	.01654	9.1526
#2	-.00333	.00990	.00033	.01526	9.1554
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.00300			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00112**	**.06969**	**-.00049**	**-.00050**
Stddev	.00	.00225	.00654	.00177	.00035
%RSD	.0002	200.93	9.3807	361.89	69.556
#1	25.01	-.00271	.07432	.00076	-.00075
#2	25.01	.00047	.06507	-.00174	-.00026
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.13559**	**-.00011**	**-.00001**	**.9992**	**.00245**
Stddev	.00816	.00015	.00014	.0062	.00019
%RSD	6.0179	142.85	1029.0	.6164	7.5858
#1	-.14136	-.00021	.00009	.9948	.00232
#2	-.12982	.00000	-.00011	1.004	.00258
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 6/15/2022 11:31:51 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00414**	**-.00002**	**-.00166**	**.9988**
Stddev	.00027	.00013	.00012	.0002
%RSD	6.4160	682.16	7.5290	.0201
#1	.00432	.00007	-.00157	.9990
#2	.00395	-.00011	-.00175	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3201.8**	**2554.1**	**25162.**	**3639.0**
Stddev	13.9	9.8	240.	25.8
%RSD	.43374	.38499	.95349	.70937
#1	3211.7	2561.1	24993.	3620.8
#2	3192.0	2547.2	25332.	3657.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.969%	99.489%	99.978%	101.55%
Range				

Sample Name: ICEX5 Acquired: 6/15/2022 11:35:43 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00072**	**.08176**	**.00488**	**-.01508**	**-.00011**
Stddev	.00111	.02323	.00016	.00037	.00001
%RSD	154.30	28.406	3.2459	2.4270	8.1774
#1	-.00150	.09818	.00477	-.01534	-.00012
#2	.00007	.06534	.00499	-.01482	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00990**	**.00016**	**.0158**	**.00108**
Stddev	.00011	.00043	.00001	.0225	.00160
%RSD	98.355	4.3342	4.1092	142.0	148.26
#1	-.00020	.01021	.00016	.0317	-.00005
#2	-.00004	.00960	.00015	-.0001	.00222
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00074**	**-.00114**	**-.00327**	**.03639**	**.00047**
Stddev	.00007	.00041	.00332	.06292	.00053
%RSD	9.9687	35.763	101.71	172.90	111.81
#1	.00068	-.00085	-.00562	.08088	.00010
#2	.00079	-.00143	-.00092	-.00810	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 6/15/2022 11:35:43 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02729**	**.00079**	**5.1803**	**.01602**	**.00087**
Stddev	.00039	.00002	.0386	.00240	.00081
%RSD	1.4237	2.3344	.74581	14.988	92.840
#1	-.02702	.00081	5.1530	.01432	.00030
#2	-.02756	.00078	5.2076	.01772	.00144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00006**	**-.00704**	**-.00170**	**.00354**
Stddev	.00	.00044	.00045	.00269	.00389
%RSD	.0020	774.86	6.4497	158.27	109.93
#1	25.01	.00026	-.00672	.00020	.00630
#2	25.01	-.00037	-.00736	-.00360	.00079
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08923**	**.00040**	**-.00001**	**.9985**	**-.00019**
Stddev	.01189	.00036	.00002	.0046	.00020
%RSD	13.327	90.314	266.22	.4586	105.69
#1	.08082	.00065	.00001	.9952	-.00005
#2	.09764	.00014	-.00002	1.002	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 6/15/2022 11:35:43 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00137**	**-.00424**	**.00183**	**1.001**
Stddev	.00091	.00058	.00027	.000
%RSD	66.665	13.616	14.560	.0159
#1	.00072	-.00383	.00164	1.001
#2	.00201	-.00465	.00202	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3177.9**	**2557.2**	**25474.**	**3658.2**
Stddev	34.0	25.6	5.	7.5
%RSD	1.0691	1.0015	.01778	.20630
#1	3201.9	2575.3	25478.	3663.5
#2	3153.8	2539.1	25471.	3652.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.221%	99.610%	101.22%	102.08%
Range				

Sample Name: CCV-7032336 Acquired: 6/15/2022 11:39:39 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0038**	**50.143**	**.99903**	**1.0261**	**.99644**
Stddev	.0037	.061	.00302	.0009	.00285
%RSD	.37253	.12134	.30274	.08737	.28584
#1	1.0065	50.100	.99690	1.0268	.99443
#2	1.0012	50.186	1.0012	1.0255	.99845
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0031**	**50.176**	**1.0046**	**1.027**	**.99057**
Stddev	.0031	.017	.0016	.025	.00076
%RSD	.30556	.03404	.16312	2.481	.07697
#1	1.0009	50.188	1.0058	1.009	.99111
#2	1.0052	50.164	1.0035	1.045	.99003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0176**	**.99785**	**50.505**	**49.268**	**.98675**
Stddev	.0004	.00208	.146	.337	.00255
%RSD	.03462	.20873	.28982	.68446	.25882
#1	1.0173	.99638	50.401	49.030	.98494
#2	1.0178	.99933	50.608	49.507	.98856
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 11:39:39 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.461**	**1.0183**	**1.0076**	**49.669**	**.99385**
Stddev	.120	.0006	.0014	.138	.00023
%RSD	.23811	.05647	.13428	.27724	.02267
#1	50.546	1.0179	1.0086	49.572	.99369
#2	50.376	1.0188	1.0066	49.766	.99401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.67**	**.99698**	**24.936**	**.99978**	**1.0069**
Stddev	.01	.00124	.026	.00265	.0005
%RSD	.0240	.12430	.10312	.26457	.04738
#1	37.67	.99611	24.954	.99791	1.0066
#2	37.66	.99786	24.918	1.0016	1.0073
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9989**	**.98781**	**.99608**	**1.505**	**1.0085**
Stddev	.0215	.00114	.00122	.001	.0004
%RSD	.21492	.11527	.12267	.0378	.03487
#1	10.014	.98862	.99521	1.505	1.0087
#2	9.9837	.98701	.99694	1.505	1.0082
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 11:39:39 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0054**	**1.0099**	**1.0261**	**1.502**
Stddev	.0010	.0015	.0028	.003
%RSD	.09922	.15256	.27179	.1929
#1	1.0046	1.0110	1.0280	1.499
#2	1.0061	1.0088	1.0241	1.504
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2718.2**	**2436.4**	**23111.**	**3434.6**
Stddev	3.3	2.2	22.	1.8
%RSD	.12301	.09120	.09734	.05108
#1	2720.5	2438.0	23095.	3435.9
#2	2715.8	2434.8	23127.	3433.4

Sample Name: CCB-7026764 Acquired: 6/15/2022 11:43:20 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**-.01769**	**.00035**	**.00171**	**.00005**
Stddev	.00034	.02714	.00088	.00029	.00001
%RSD	73.354	153.39	251.18	17.072	19.690
#1	-.00070	-.03689	-.00027	.00150	.00006
#2	-.00022	.00150	.00097	.00192	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**-.00479**	**-.00001**	**-.0016**	**.00007**
Stddev	.00005	.00058	.00012	.0156	.00019
%RSD	2146.6	12.092	1141.5	1000.0	278.34
#1	.00004	-.00438	.00008	.0095	-.00007
#2	-.00004	-.00520	-.00010	-.0126	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.00015**	**-.00069**	**.04797**	**-.00188**
Stddev	.00013	.00026	.00220	.00811	.00037
%RSD	371.02	170.92	318.64	16.916	19.444
#1	-.00013	.00003	.00087	.04223	-.00162
#2	.00006	-.00034	-.00225	.05371	-.00214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 11:43:20 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00319**	**.00005**	**.00064**	**.01227**	**.00010**
Stddev	.00005	.00003	.00006	.00287	.00012
%RSD	1.5517	62.391	8.9286	23.427	127.19
#1	.00322	.00007	.00060	.01430	.00001
#2	.00315	.00003	.00068	.01024	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00108**	**.00464**	**-.00092**	**.00073**
Stddev	.00	.00019	.00032	.00006	.00256
%RSD	.0042	17.792	6.8523	5.9792	347.93
#1	25.02	-.00094	.00487	-.00088	-.00107
#2	25.02	-.00121	.00442	-.00096	.00254
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00923**	**.00016**	**-.00009**	**1.001**	**.00015**
Stddev	.01106	.00009	.00001	.001	.00017
%RSD	119.88	57.035	14.729	.1221	113.35
#1	-.00141	.00022	-.00010	1.002	.00003
#2	-.01705	.00009	-.00008	1.000	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 11:43:20 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00052**	**-.00020**	**-.00165**	**1.000**
Stddev	.00067	.00031	.00005	.001
%RSD	127.12	159.61	3.2152	.0457
#1	-.00005	-.00042	-.00162	1.0000
#2	-.00099	.00003	-.00169	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3180.7**	**2549.6**	**24800.**	**3545.2**
Stddev	9.6	6.6	105.	26.9
%RSD	.30069	.25988	.42252	.75893
#1	3173.9	2544.9	24726.	3564.2
#2	3187.5	2554.2	24874.	3526.2

Sample Name: CCVL-7028546 Acquired: 6/15/2022 12:01:33 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00564**	**.17151**	**.01688**	**.01894**	**.00211**
Stddev	.00012	.00296	.00051	.00021	.00001
%RSD	2.0665	1.7245	3.0191	1.0989	.66750
#1	.00556	.17360	.01724	.01879	.00212
#2	.00572	.16942	.01652	.01908	.00210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00194**	**.48968**	**.00182**	**.0028**	**.00363**
Stddev	.00006	.00508	.00004	.0107	.00013
%RSD	3.0743	1.0381	2.3158	377.8	3.7198
#1	.00190	.48609	.00185	-.0047	.00372
#2	.00198	.49328	.00179	.0104	.00353
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00411**	**.00878**	**.04644**	**.44780**	**.02451**
Stddev	.00035	.00047	.00196	.01420	.00157
%RSD	8.5722	5.3991	4.2145	3.1700	6.4126
#1	.00436	.00911	.04782	.45784	.02340
#2	.00386	.00844	.04505	.43776	.02562
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/15/2022 12:01:33 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19419**	**.00316**	**.00997**	**.91539**	**.00912**
Stddev	.00253	.00003	.00012	.00551	.00003
%RSD	1.3049	.98865	1.2412	.60211	.38094
#1	.19598	.00318	.01006	.91150	.00915
#2	.19240	.00314	.00988	.91929	.00910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00798**	**.19351**	**.01748**	**.01927**
Stddev	.00	.00002	.00056	.00163	.00178
%RSD	.0013	.30757	.29122	9.3479	9.2256
#1	25.00	.00800	.19311	.01863	.02053
#2	25.00	.00796	.19391	.01632	.01801
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47544**	**.00949**	**.00491**	F **1.000**	**.00511**
Stddev	.01957	.00052	.00008	.002	.00008
%RSD	4.1152	5.5022	1.6404	.1615	1.4850
#1	.46160	.00986	.00497	1.001	.00516
#2	.48927	.00912	.00485	.9992	.00505
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/15/2022 12:01:33 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01868**	**.00451**	**.01073**	F **1.001**
Stddev	.00058	.00019	.00014	.001
%RSD	3.0881	4.3057	1.2754	.0958
#1	.01909	.00437	.01063	1.001
#2	.01827	.00465	.01082	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3191.8**	**2557.7**	**24989.**	**3637.9**
Stddev	1.4	.4	17.	8.3
%RSD	.04452	.01462	.06974	.22821
#1	3190.8	2558.0	25001.	3643.8
#2	3192.8	2557.5	24976.	3632.1

Sample Name: IDL 1 Acquired: 6/15/2022 12:05:27 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00058**	**-.00548**	**.00112**	**.00002**	**-.00003**
Stddev	.00067	.02041	.00017	.00021	.00002
%RSD	115.93	372.49	15.539	881.70	73.812
#1	-.00105	-.01991	.00125	-.00012	-.00004
#2	-.00010	.00895	.00100	.00017	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00661**	**-.00005**	**-.0012**	**.00003**
Stddev	.00006	.00015	.00016	.0249	.00006
%RSD	128.07	2.2571	285.19	2121.	184.37
#1	-.00000	-.00672	.00006	-.0188	-.00001
#2	-.00009	-.00651	-.00017	.0164	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.00081**	**-.00489**	**-.01509**	**-.00197**
Stddev	.00010	.00004	.00189	.01216	.00043
%RSD	51.451	4.5776	38.669	80.567	21.884
#1	.00012	-.00084	-.00355	-.02369	-.00227
#2	.00026	-.00078	-.00623	-.00650	-.00166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 1 Acquired: 6/15/2022 12:05:27 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.00017**	**-.00010**	**.01337**	**-.00022**
Stddev	.00115	.00002	.00005	.00157	.00017
%RSD	1055.0	12.415	50.914	11.771	76.668
#1	-.00070	-.00016	-.00006	.01225	-.00010
#2	.00092	-.00019	-.00014	.01448	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00009**	**-.00399**	**.00001**	**-.00071**
Stddev	.00	.00008	.00181	.00143	.00409
%RSD	.0089	84.488	45.363	13075.	575.03
#1	25.02	.00004	-.00527	.00103	-.00361
#2	25.02	.00015	-.00271	-.00100	.00218
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01718**	**.00012**	**-.00009**	**1.000**	**-.00016**
Stddev	.01976	.00005	.00005	.009	.00005
%RSD	115.02	41.689	60.322	.8530	29.006
#1	-.03115	.00016	-.00013	1.006	-.00013
#2	-.00321	.00008	-.00005	.9944	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 1 Acquired: 6/15/2022 12:05:27 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00050**	**-.00003**	**-.00156**	**1.001**
Stddev	.00052	.00024	.00057	.001
%RSD	103.17	857.54	36.485	.0883
#1	-.00087	.00014	-.00116	1.000
#2	-.00014	-.00020	-.00196	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3224.8**	**2574.6**	**25307.**	**3645.0**
Stddev	7.5	7.5	3.	38.8
%RSD	.23178	.29299	.01365	1.0649
#1	3219.5	2569.3	25309.	3617.5
#2	3230.1	2579.9	25304.	3672.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.69%	100.29%	100.55%	101.72%
Range				

Sample Name: IDL 2 Acquired: 6/15/2022 12:09:23 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00349**	**.00031**	**-.00021**	**-.00004**
Stddev	.00009	.01636	.00080	.00006	.00004
%RSD	102.68	469.16	263.66	29.126	107.63
#1	.00015	-.00808	-.00026	-.00025	-.00007
#2	.00002	.01505	.00087	-.00017	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.00861**	**-.00007**	**.0369**	**-.00011**
Stddev	.00003	.00355	.00011	.0198	.00014
%RSD	67.926	41.206	158.54	53.64	121.50
#1	-.00002	-.00610	.00001	.0229	-.00021
#2	-.00006	-.01112	-.00015	.0509	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.00075**	**-.00510**	**.05234**	**-.00109**
Stddev	.00013	.00013	.00407	.00910	.00232
%RSD	124.23	18.032	79.746	17.390	212.65
#1	-.00020	-.00065	-.00223	.04590	-.00273
#2	-.00001	-.00084	-.00798	.05877	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 2 Acquired: 6/15/2022 12:09:23 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00183**	**-.00014**	**.00013**	**.00532**	**-.00010**
Stddev	.00327	.00002	.00001	.00018	.00009
%RSD	178.38	11.716	5.4933	3.3037	96.952
#1	.00415	-.00016	.00013	.00520	-.00003
#2	-.00048	-.00013	.00012	.00545	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00055**	**-.00389**	**.00057**	**-.00289**
Stddev	.00	.00095	.00125	.00099	.00512
%RSD	.0018	172.24	32.164	175.41	177.37
#1	25.02	.00012	-.00301	-.00014	-.00651
#2	25.02	-.00123	-.00478	.00127	.00073
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01043**	**.00020**	**-.00013**	**1.005**	**-.00069**
Stddev	.01866	.00022	.00005	.003	.00009
%RSD	178.88	111.23	35.230	.2507	13.571
#1	-.02363	.00004	-.00010	1.003	-.00076
#2	.00276	.00035	-.00017	1.007	-.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 2 Acquired: 6/15/2022 12:09:23 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00162**	**-.00012**	**-.00188**	**1.000**
Stddev	.00008	.00029	.00023	.000
%RSD	4.9605	231.98	12.075	.0144
#1	-.00168	.00008	-.00172	1.000
#2	-.00157	-.00033	-.00204	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3158.8**	**2529.2**	**24517.**	**3486.4**
Stddev	3.7	4.1	152.	13.1
%RSD	.11632	.16219	.61813	.37605
#1	3161.4	2532.1	24409.	3477.1
#2	3156.2	2526.3	24624.	3495.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.626%	98.519%	97.412%	97.290%
Range				

Sample Name: IDL 3 Acquired: 6/15/2022 12:13:18 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**-.01210**	**.00166**	**-.00040**	**-.00003**
Stddev	.00049	.00940	.00125	.00011	.00000
%RSD	83.632	77.732	74.914	26.670	15.414
#1	-.00024	-.01874	.00254	-.00032	-.00003
#2	-.00094	-.00545	.00078	-.00047	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.00553**	**-.00003**	**.0287**	**-.00014**
Stddev	.00001	.00099	.00002	.0041	.00005
%RSD	42.413	17.948	64.567	14.30	31.829
#1	-.00005	-.00623	-.00004	.0316	-.00011
#2	-.00002	-.00482	-.00002	.0258	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**-.00062**	**-.00537**	**.03018**	**-.00238**
Stddev	.00012	.00009	.00174	.04812	.00086
%RSD	51.031	14.220	32.371	159.44	35.958
#1	-.00015	-.00068	-.00414	.06421	-.00298
#2	-.00031	-.00056	-.00660	-.00385	-.00177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 3 Acquired: 6/15/2022 12:13:18 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00324**	**-.00023**	**-.00002**	**.00200**	**.00005**
Stddev	.00109	.00003	.00015	.01127	.00002
%RSD	33.615	12.029	726.72	562.58	35.367
#1	-.00401	-.00021	.00009	-.00597	.00006
#2	-.00247	-.00025	-.00013	.00998	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00109**	**-.00061**	**.00013**	**.00030**
Stddev	.00	.00005	.00002	.00071	.00192
%RSD	.0004	4.7536	3.6114	560.55	640.85
#1	25.02	-.00106	-.00059	-.00037	-.00106
#2	25.02	-.00113	-.00062	.00063	.00165
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02060**	**.00002**	**-.00009**	**1.002**	**-.00001**
Stddev	.01641	.00028	.00011	.004	.00006
%RSD	79.659	1200.1	128.00	.3542	426.09
#1	-.00900	-.00018	-.00001	1.005	-.00005
#2	-.03221	.00022	-.00016	.9995	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 3 Acquired: 6/15/2022 12:13:18 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00040**	**-.00021**	**-.00185**	**1.001**
Stddev	.00031	.00045	.00025	.001
%RSD	77.302	217.14	13.785	.0878
#1	-.00018	-.00052	-.00203	1.000
#2	-.00062	.00011	-.00167	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3214.7**	**2570.1**	**25126.**	**3601.9**
Stddev	1.0	1.0	6.	11.3
%RSD	.03073	.03759	.02305	.31508
#1	3215.4	2569.4	25122.	3593.9
#2	3214.0	2570.8	25130.	3610.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.37%	100.11%	99.834%	100.52%
Range				

Sample Name: IDL 4 Acquired: 6/15/2022 12:17:14 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**-.01291**	**.00069**	**-.00013**	**-.00002**
Stddev	.00004	.00890	.00121	.00012	.00000
%RSD	9.9885	68.998	175.53	95.616	16.031
#1	-.00033	-.00661	-.00017	-.00004	-.00002
#2	-.00038	-.01920	.00155	-.00022	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.01114**	**-.00011**	**.0009**	**-.00013**
Stddev	.00005	.00050	.00005	.0082	.00006
%RSD	74.509	4.4738	49.598	899.0	43.185
#1	-.00010	-.01149	-.00015	.0067	-.00018
#2	-.00003	-.01079	-.00007	-.0049	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.00032**	**-.00596**	**.05709**	**-.00073**
Stddev	.00028	.00055	.00119	.02814	.00183
%RSD	147.12	170.58	19.920	49.290	251.90
#1	-.00001	.00007	-.00679	.03719	-.00202
#2	.00038	-.00071	-.00512	.07699	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 4 Acquired: 6/15/2022 12:17:14 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00095**	**-.00022**	**-.00008**	**.00966**	**-.00015**
Stddev	.00592	.00003	.00001	.00317	.00016
%RSD	622.39	11.208	9.6325	32.852	104.95
#1	.00324	-.00021	-.00008	.01190	-.00027
#2	-.00514	-.00024	-.00009	.00741	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00047**	**-.00279**	**-.00021**	**-.00229**
Stddev	.00	.00031	.00030	.00010	.00057
%RSD	.0041	65.080	10.589	45.422	24.760
#1	25.02	-.00025	-.00300	-.00014	-.00269
#2	25.02	-.00069	-.00258	-.00028	-.00189
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01614**	**-.00010**	**-.00007**	**1.002**	**.00005**
Stddev	.00141	.00034	.00008	.006	.00018
%RSD	8.7375	333.87	117.23	.6328	344.40
#1	-.01713	-.00035	-.00001	1.007	.00018
#2	-.01514	.00014	-.00013	.9978	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 4 Acquired: 6/15/2022 12:17:14 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00038**	**-.00001**	**-.00189**	**1.000**
Stddev	.00048	.00006	.00023	.000
%RSD	126.34	565.04	12.278	.0050
#1	.00073	-.00006	-.00173	1.000
#2	.00004	.00003	-.00206	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3199.2**	**2558.7**	**25185.**	**3611.3**
Stddev	8.6	7.9	3.	6.9
%RSD	.27019	.30861	.01362	.19242
#1	3205.3	2564.3	25182.	3606.4
#2	3193.1	2553.1	25187.	3616.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.887%	99.666%	100.07%	100.78%
Range				

Sample Name: IDL 5 Acquired: 6/15/2022 12:21:09 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.01464**	**-.00017**	**-.00043**	**-.00002**
Stddev	.00063	.02581	.00096	.00010	.00003
%RSD	1590.4	176.28	560.92	23.729	126.46
#1	-.00041	.00361	.00051	-.00050	-.00004
#2	.00049	-.03289	-.00085	-.00036	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00883**	**-.00002**	**-.0178**	**-.00007**
Stddev	.00004	.00432	.00014	.0201	.00003
%RSD	48.639	48.863	832.68	113.0	46.842
#1	-.00012	-.01188	.00008	-.0036	-.00009
#2	-.00006	-.00578	-.00011	-.0320	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.00091**	**-.00499**	**.03170**	**-.00041**
Stddev	.00028	.00086	.00174	.02022	.00053
%RSD	140.70	94.295	34.926	63.784	128.46
#1	.00040	-.00030	-.00622	.01740	-.00078
#2	.00000	-.00152	-.00376	.04600	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 5 Acquired: 6/15/2022 12:21:09 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00249**	**-.00015**	**-.00003**	**.00567**	**.00010**
Stddev	.00399	.00008	.00005	.00561	.00021
%RSD	160.51	56.027	167.40	99.052	209.48
#1	.00034	-.00020	.00001	.00963	.00025
#2	-.00531	-.00009	-.00007	.00170	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00015**	**.00024**	**.00000**	**-.00153**
Stddev	.00	.00100	.00053	.00076	.00287
%RSD	.0014	655.72	225.16	27086.	187.42
#1	25.02	-.00056	-.00014	.00054	-.00356
#2	25.02	.00086	.00061	-.00053	.00050
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00732**	**.00003**	**-.00013**	**1.001**	**-.00009**
Stddev	.00974	.00039	.00006	.007	.00018
%RSD	133.15	1283.3	43.538	.7499	208.21
#1	-.01420	-.00025	-.00018	.9954	-.00022
#2	-.00043	.00031	-.00009	1.006	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 5 Acquired: 6/15/2022 12:21:09 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00097**	**-.00011**	**-.00162**	**1.001**
Stddev	.00008	.00005	.00069	.000
%RSD	8.6726	47.447	42.484	.0273
#1	-.00103	-.00007	-.00113	1.001
#2	-.00091	-.00014	-.00211	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3220.5**	**2578.3**	**24934.**	**3481.3**
Stddev	.8	1.5	110.	80.5
%RSD	.02408	.05873	.44053	2.3116
#1	3221.0	2579.4	24856.	3424.4
#2	3219.9	2577.2	25011.	3538.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.55%	100.43%	99.070%	97.149%
Range				

Sample Name: IDL 6 Acquired: 6/15/2022 12:25:04 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**-.01147**	**-.00064**	**-.00028**	**-.00003**
Stddev	.00035	.01519	.00010	.00013	.00002
%RSD	57.773	132.49	16.445	46.578	61.102
#1	-.00085	-.02221	-.00056	-.00038	-.00004
#2	-.00036	-.00072	-.00071	-.00019	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.01271**	**-.00013**	**.0048**	**-.00017**
Stddev	.00001	.00156	.00016	.0008	.00006
%RSD	20.263	12.258	125.43	17.51	34.017
#1	.00005	-.01381	-.00025	.0042	-.00013
#2	.00004	-.01161	-.00001	.0054	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**-.00026**	**-.00357**	**.01372**	**-.00007**
Stddev	.00019	.00029	.00025	.01022	.00099
%RSD	53.339	114.44	7.0513	74.465	1507.7
#1	-.00022	-.00046	-.00375	.00650	-.00076
#2	-.00049	-.00005	-.00340	.02095	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 6 Acquired: 6/15/2022 12:25:04 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00384**	**-.00012**	**-.00025**	**-.00985**	**.00013**
Stddev	.00012	.00004	.00003	.00626	.00039
%RSD	3.2439	34.129	13.166	63.534	295.09
#1	-.00393	-.00015	-.00028	-.00542	.00041
#2	-.00376	-.00009	-.00023	-.01427	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00040**	**-.00297**	**-.00126**	**.00157**
Stddev	.00	.00061	.00120	.00083	.00226
%RSD	.0046	151.58	40.472	65.874	144.21
#1	25.02	-.00003	-.00382	-.00184	-.00003
#2	25.02	.00083	-.00212	-.00067	.00317
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01456**	**-.00008**	**-.00012**	**1.000**	**-.00028**
Stddev	.01512	.00031	.00009	.001	.00015
%RSD	103.80	381.10	75.196	.0664	55.169
#1	-.00387	-.00030	-.00006	.9999	-.00038
#2	-.02525	.00014	-.00018	1.001	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 6 Acquired: 6/15/2022 12:25:04 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.00013**	**-.00196**	**.9997**
Stddev	.00088	.00041	.00001	.0005
%RSD	213.30	308.38	.36951	.0528
#1	.00021	.00043	-.00196	.9994
#2	-.00104	-.00016	-.00197	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3174.7**	**2541.5**	**24792.**	**3554.6**
Stddev	7.4	3.4	41.	7.1
%RSD	.23275	.13415	.16613	.20042
#1	3169.5	2539.1	24763.	3549.6
#2	3180.0	2543.9	24821.	3559.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.123%	98.996%	98.507%	99.196%
Range				

Sample Name: IDL 7 Acquired: 6/15/2022 12:28:59 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**.00688**	**.00042**	**-.00027**	**-.00002**
Stddev	.00009	.05354	.00054	.00039	.00002
%RSD	18.201	778.10	129.87	145.55	82.789
#1	-.00045	.04474	.00080	.00001	-.00004
#2	-.00059	-.03098	.00003	-.00054	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.00660**	**-.00002**	**.0097**	**-.00004**
Stddev	.00000	.00457	.00014	.0027	.00015
%RSD	.01394	69.228	631.97	27.77	437.29
#1	-.00006	-.00984	-.00012	.0078	-.00014
#2	-.00006	-.00337	.00007	.0117	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00077**	**-.00508**	**.03129**	**-.00026**
Stddev	.00004	.00004	.00043	.05033	.00072
%RSD	465.19	5.0818	8.4457	160.88	279.04
#1	.00002	-.00080	-.00477	.06688	-.00077
#2	-.00004	-.00074	-.00538	-.00430	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 7 Acquired: 6/15/2022 12:28:59 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00376**	**-.00018**	**-.00008**	**.00125**	**-.00026**
Stddev	.00167	.00005	.00020	.00448	.00007
%RSD	44.446	25.486	244.73	357.44	28.127
#1	-.00258	-.00021	-.00022	-.00192	-.00031
#2	-.00494	-.00015	.00006	.00442	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00116**	**-.00393**	**-.00102**	**-.00131**
Stddev	.00	.00166	.00314	.00058	.00136
%RSD	.0031	144.00	79.994	56.856	103.93
#1	25.02	.00002	-.00171	-.00143	-.00227
#2	25.02	-.00233	-.00615	-.00061	-.00035
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02526**	**-.00031**	**-.00012**	**1.000**	**-.00010**
Stddev	.00673	.00026	.00003	.000	.00019
%RSD	26.630	84.213	28.827	.0053	197.21
#1	-.02050	-.00012	-.00009	1.000	-.00023
#2	-.03001	-.00049	-.00014	1.000	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: IDL 7 Acquired: 6/15/2022 12:28:59 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00091**	**-.00022**	**-.00173**	**1.001**
Stddev	.00017	.00023	.00059	.001
%RSD	18.722	101.69	33.916	.0778
#1	-.00079	-.00006	-.00215	1.001
#2	-.00103	-.00039	-.00132	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3199.2**	**2560.2**	**25155.**	**3625.3**
Stddev	3.2	4.7	117.	21.8
%RSD	.10141	.18172	.46369	.60136
#1	3196.9	2556.9	25072.	3609.9
#2	3201.5	2563.5	25237.	3640.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.887%	99.726%	99.948%	101.17%
Range				

Sample Name: 198604-2 tot Acquired: 6/15/2022 12:32:55 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.00929**	**.01213**	**.37832**	**.07435**
Stddev	.00016	.00422	.00008	.00196	.00015
%RSD	47.080	45.405	.67050	.51931	.20559
#1	-.00023	.00631	.01218	.37693	.07446
#2	-.00046	.01227	.01207	.37971	.07424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**19.460**	**-.00000**	**.0278**	**.00008**
Stddev	.00002	.106	.00005	.0133	.00006
%RSD	18.371	.54510	2206.3	47.80	72.241
#1	-.00010	19.385	-.00004	.0184	.00004
#2	-.00013	19.535	.00003	.0372	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00036**	**.10606**	**1.7836**	**.03609**
Stddev	.00004	.00030	.00163	.0088	.00215
%RSD	42.674	83.463	1.5363	.49224	5.9460
#1	-.00007	.00057	.10721	1.7898	.03458
#2	-.00013	.00015	.10491	1.7774	.03761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 198604-2 tot Acquired: 6/15/2022 12:32:55 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.239**	**.01870**	**.00315**	**64.587**	**-.00010**
Stddev	.030	.00008	.00018	.311	.00018
%RSD	.11103	.41867	5.7140	.48215	191.80
#1	27.260	.01864	.00302	64.367	-.00022
#2	27.218	.01875	.00328	64.807	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00044**	**10.789**	**-.00097**	**-.00087**
Stddev	.00	.00023	.070	.00073	.00426
%RSD	.0025	51.678	.64907	75.218	490.44
#1	25.03	.00061	10.739	-.00149	-.00388
#2	25.03	.00028	10.839	-.00046	.00215
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.7122**	**.00012**	**2.6060**	**1.002**	**.00011**
Stddev	.0315	.00069	.0023	.003	.00081
%RSD	.55216	554.14	.08713	.2487	712.84
#1	5.6899	-.00036	2.6044	1.004	-.00046
#2	5.7345	.00061	2.6076	1.000	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 198604-2 tot Acquired: 6/15/2022 12:32:55 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00035**	**-.00080**	**-.00098**	**1.000**
Stddev	.00026	.00010	.00045	.001
%RSD	75.937	12.855	45.636	.0817
#1	-.00016	-.00072	-.00066	1.001
#2	-.00053	-.00087	-.00130	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2875.9**	**2429.0**	**23345.**	**3428.6**
Stddev	12.9	15.0	72.	50.3
%RSD	.44881	.61792	.30751	1.4671
#1	2885.0	2439.6	23395.	3464.2
#2	2866.8	2418.4	23294.	3393.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.792%	94.616%	92.755%	95.678%
Range				

Sample Name: rinse Acquired: 6/15/2022 12:36:46 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.01208**	**-.00064**	**.00000**	**.00003**
Stddev	.00049	.00471	.00079	.00028	.00001
%RSD	1319.3	38.970	122.66	7030.0	22.199
#1	-.00031	-.00875	-.00009	-.00020	.00003
#2	.00038	-.01541	-.00120	.00020	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.00815**	**-.00001**	**.0182**	**-.00010**
Stddev	.00006	.00049	.00006	.0389	.00005
%RSD	143.97	5.9842	559.84	213.1	48.671
#1	.00000	-.00850	-.00005	.0457	-.00014
#2	-.00008	-.00781	.00003	-.0092	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00060**	**-.00407**	**.00902**	**-.00144**
Stddev	.00026	.00028	.00079	.03678	.00029
%RSD	123.03	46.541	19.547	407.80	20.382
#1	-.00003	.00080	-.00350	.03502	-.00124
#2	-.00040	.00040	-.00463	-.01699	-.00165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 6/15/2022 12:36:46 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00122**	**-.00023**	**.00019**	**.00454**	**-.00013**
Stddev	.00020	.00009	.00001	.01009	.00033
%RSD	16.384	40.961	6.2008	222.23	245.04
#1	.00107	-.00016	.00020	.01168	.00010
#2	.00136	-.00029	.00018	-.00260	-.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00017**	**-.00043**	**-.00104**	**.00183**
Stddev	.00	.00076	.00326	.00081	.00264
%RSD	.0063	436.13	750.13	78.202	144.19
#1	25.02	.00071	-.00274	-.00161	-.00004
#2	25.02	-.00036	.00187	-.00046	.00370
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02164**	**.00026**	**.00015**	**.9974**	**-.00045**
Stddev	.01197	.00046	.00002	.0038	.00006
%RSD	55.315	172.84	16.224	.3769	13.669
#1	-.01318	.00059	.00017	.9948	-.00041
#2	-.03010	-.00006	.00014	1.000	-.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 6/15/2022 12:36:46 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00065**	**-.00007**	**-.00151**	**1.002**
Stddev	.00017	.00005	.00007	.000
%RSD	26.104	67.056	4.4514	.0100
#1	-.00077	-.00004	-.00146	1.002
#2	-.00053	-.00011	-.00156	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3181.1**	**2551.4**	**25175.**	**3595.2**
Stddev	12.0	6.3	103.	1.9
%RSD	.37877	.24747	.41077	.05409
#1	3172.6	2546.9	25102.	3596.5
#2	3189.7	2555.8	25248.	3593.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.323%	99.382%	100.03%	100.33%
Range				

Sample Name: CCV-7032336 Acquired: 6/15/2022 12:40:44 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0166**	**50.080**	**1.0065**	**1.0312**	**1.0045**
Stddev	.0022	.038	.0018	.0006	.0010
%RSD	.21912	.07635	.17623	.05429	.10405
#1	1.0182	50.053	1.0052	1.0308	1.0038
#2	1.0150	50.107	1.0077	1.0316	1.0052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0049**	**49.965**	**1.0024**	**1.004**	**.98697**
Stddev	.0010	.086	.0005	.014	.00050
%RSD	.10180	.17136	.05380	1.361	.05035
#1	1.0041	50.025	1.0028	1.013	.98733
#2	1.0056	49.904	1.0020	.9939	.98662
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0148**	**1.0036**	**50.802**	**48.956**	**.98660**
Stddev	.0046	.0047	.092	.058	.00150
%RSD	.45437	.46673	.18132	.11935	.15250
#1	1.0180	1.0069	50.736	48.997	.98766
#2	1.0115	1.0003	50.867	48.914	.98553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 12:40:44 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.539**	**1.0051**	**1.0067**	**49.552**	**.99153**
Stddev	.352	.0062	.0022	.041	.00034
%RSD	.69667	.61536	.22175	.08354	.03385
#1	50.788	1.0095	1.0082	49.582	.99177
#2	50.290	1.0008	1.0051	49.523	.99130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.73**	**.98879**	**25.201**	**1.0053**	**1.0162**
Stddev	.00	.00214	.024	.0007	.0044
%RSD	.0024	.21620	.09549	.06667	.43379
#1	37.73	.99030	25.184	1.0048	1.0193
#2	37.73	.98728	25.218	1.0058	1.0131
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9337**	**.98372**	**1.0054**	**1.506**	**1.0053**
Stddev	.0105	.00051	.0002	.003	.0050
%RSD	.10571	.05202	.01572	.1731	.49693
#1	9.9263	.98336	1.0055	1.508	1.0089
#2	9.9412	.98408	1.0053	1.505	1.0018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 12:40:44 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0029**	**1.0089**	**1.0101**	**1.503**
Stddev	.0033	.0066	.0059	.001
%RSD	.33072	.65305	.58305	.0716
#1	1.0052	1.0135	1.0142	1.504
#2	1.0005	1.0042	1.0059	1.502
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2747.5**	**2453.2**	**23349.**	**3428.5**
Stddev	.4	1.7	229.	.9
%RSD	.01604	.06973	.98272	.02704
#1	2747.8	2454.4	23187.	3427.8
#2	2747.2	2452.0	23511.	3429.2

Sample Name: CCB-7026764 Acquired: 6/15/2022 12:44:26 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00182**	**-.02126**	**-.00023**	**.00115**	F **.00264**
Stddev	.00454	.01694	.00026	.00040	.00363
%RSD	249.49	79.680	114.82	34.411	137.37
#1	.00503	-.00928	-.00004	.00143	.00521
#2	-.00139	-.03324	-.00041	.00087	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					.00200
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00212**	**-.00020**	**.0347**	**-.00007**
Stddev	.00004	.00169	.00003	.0059	.00003
%RSD	129.49	79.481	16.419	17.01	37.948
#1	-.00000	-.00332	-.00017	.0389	-.00009
#2	-.00006	-.00093	-.00022	.0305	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00267**	**.00138**	**-.00433**	**.02899**	**-.00081**
Stddev	.00332	.00419	.00174	.00248	.00106
%RSD	124.56	304.52	40.164	8.5567	130.67
#1	.00502	.00434	-.00556	.03074	-.00006
#2	.00032	-.00159	-.00310	.02723	-.00157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 12:44:26 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.13675**	**.00230**	**.00031**	**.01085**	**-.00003**
Stddev	.19319	.00345	.00021	.00983	.00022
%RSD	141.27	149.96	67.623	90.577	708.15
#1	.27336	.00474	.00016	.01780	-.00019
#2	.00014	-.00014	.00046	.00390	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00030**	**-.00152**	**.00108**	**-.00286**
Stddev	.00	.00097	.00199	.00300	.00530
%RSD	.0050	322.35	130.96	278.87	185.30
#1	25.02	.00038	-.00011	-.00105	.00089
#2	25.02	-.00098	-.00292	.00320	-.00661
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00612**	**-.00029**	**-.00003**	**1.001**	**.00240**
Stddev	.00349	.00019	.00000	.008	.00274
%RSD	57.092	64.110	.81011	.8329	114.32
#1	-.00859	-.00042	-.00003	1.007	.00434
#2	-.00365	-.00016	-.00003	.9952	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 12:44:26 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.00229**	**.00053**	**1.001**
Stddev	.00045	.00337	.00349	.000
%RSD	75.783	147.40	660.65	.0038
#1	-.00091	.00467	.00300	1.001
#2	-.00027	-.00010	-.00194	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3149.5**	**2524.6**	**24765.**	**3534.5**
Stddev	4.3	6.0	8.	21.2
%RSD	.13784	.23950	.03162	.60022
#1	3146.5	2520.3	24760.	3549.5
#2	3152.6	2528.9	24771.	3519.5

Sample Name: CCVL-7028546 Acquired: 6/15/2022 12:48:23 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00524**	**.17496**	**.01443**	**.01958**	**.00210**
Stddev	.00037	.00252	.00002	.00012	.00003
%RSD	7.0991	1.4381	.15225	.58871	1.3707
#1	.00550	.17319	.01442	.01966	.00213
#2	.00498	.17674	.01445	.01950	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00190**	**.49103**	**.00196**	**.0320**	**.00374**
Stddev	.00001	.00055	.00005	.0037	.00013
%RSD	.56897	.11149	2.5144	11.53	3.5076
#1	.00190	.49141	.00200	.0294	.00365
#2	.00191	.49064	.00193	.0346	.00383
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00390**	**.00982**	**.04795**	**.44802**	**.02647**
Stddev	.00038	.00035	.00085	.06432	.00001
%RSD	9.7822	3.5224	1.7757	14.356	.04682
#1	.00417	.00958	.04855	.40254	.02646
#2	.00363	.01007	.04735	.49350	.02648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/15/2022 12:48:23 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19698**	**.00325**	**.00991**	**.92726**	**.00943**
Stddev	.00657	.00000	.00003	.00118	.00024
%RSD	3.3352	.03760	.30792	.12705	2.5443
#1	.20162	.00325	.00993	.92643	.00926
#2	.19233	.00325	.00989	.92810	.00960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00898**	**.19502**	**.01757**	**.02624**
Stddev	.00	.00035	.00073	.00062	.00005
%RSD	.0023	3.8531	.37259	3.5058	.20874
#1	25.00	.00873	.19450	.01714	.02628
#2	25.00	.00922	.19553	.01801	.02620
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46527**	**.00925**	**.00500**	F **1.004**	**.00465**
Stddev	.01071	.00032	.00012	.012	.00046
%RSD	2.3020	3.4676	2.3292	1.160	9.9528
#1	.45770	.00948	.00508	.9960	.00498
#2	.47285	.00902	.00492	1.012	.00432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/15/2022 12:48:23 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01913**	**.00497**	**.01064**	F **1.001**
Stddev	.00007	.00029	.00016	.000
%RSD	.37916	5.8396	1.4779	.0097
#1	.01908	.00518	.01075	1.001
#2	.01918	.00477	.01052	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3171.9**	**2545.1**	**24863.**	**3598.1**
Stddev	5.9	2.8	62.	23.0
%RSD	.18728	.10921	.24744	.63932
#1	3167.7	2543.1	24819.	3614.4
#2	3176.1	2547.1	24906.	3581.9

Sample Name: MB 480-629787/1-B Acquired: 6/15/2022 12:52:18 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.00165**	**.00055**	**.00065**	**.00000**
Stddev	.00049	.01107	.00025	.00000	.00002
%RSD	287.16	671.45	45.886	.12863	491.36
#1	.00052	.00948	.00073	.00065	.00002
#2	-.00018	-.00618	.00037	.00065	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00446**	**-.00007**	**.0241**	**-.00012**
Stddev	.00006	.00045	.00006	.0378	.00009
%RSD	243.75	10.006	75.329	157.0	77.340
#1	-.00007	.00478	-.00003	.0508	-.00005
#2	.00002	.00415	-.00011	-.0026	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**-.00040**	**-.00212**	**.05016**	**-.00006**
Stddev	.00041	.00038	.00245	.01626	.00082
%RSD	156.30	95.647	115.51	32.426	1288.7
#1	-.00003	-.00066	-.00039	.03866	.00052
#2	.00056	-.00013	-.00385	.06166	-.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629787/1-B Acquired: 6/15/2022 12:52:18 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00006**	**.00001**	**.03008**	**-.00010**
Stddev	.00256	.00002	.00001	.00231	.00028
%RSD	1061.5	28.416	37.876	7.6883	285.49
#1	.00205	.00007	.00001	.03172	-.00030
#2	-.00157	.00004	.00002	.02845	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00056**	**.00404**	**.00013**	**-.00006**
Stddev	.00	.00044	.00168	.00083	.00117
%RSD	.0053	77.886	41.547	631.34	1882.7
#1	25.02	-.00025	.00286	-.00045	-.00089
#2	25.02	-.00087	.00523	.00072	.00076
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00277**	**-.00008**	**-.00007**	**1.003**	**-.00001**
Stddev	.00004	.00003	.00001	.003	.00008
%RSD	1.4005	34.095	18.736	.2899	555.58
#1	-.00275	-.00006	-.00008	1.001	-.00007
#2	-.00280	-.00010	-.00006	1.005	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629787/1-B Acquired: 6/15/2022 12:52:18 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00076**	**-.00011**	**.00228**	**1.001**
Stddev	.00095	.00030	.00022	.000
%RSD	125.02	281.95	9.4236	.0233
#1	-.00009	.00011	.00243	1.001
#2	-.00143	-.00032	.00213	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3224.4**	**2568.9**	**25295.**	**3687.5**
Stddev	7.7	6.3	90.	25.1
%RSD	.24000	.24655	.35707	.68035
#1	3218.9	2564.4	25231.	3669.8
#2	3229.8	2573.4	25359.	3705.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.67%	100.06%	100.51%	102.90%
Range				

Sample Name: LCS 480-629787/2-B Acquired: 6/15/2022 12:56:12 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04780**	**10.227**	**.19683**	**.20289**	**.21487**
Stddev	.00004	.042	.00298	.00027	.00024
%RSD	.08427	.40953	1.5132	.13331	.11278
#1	.04778	10.198	.19473	.20308	.21504
#2	.04783	10.257	.19894	.20270	.21470
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20498**	**9.8195**	**.19476**	**.0049**	**.19265**
Stddev	.00048	.0252	.00072	.0328	.00067
%RSD	.23411	.25657	.36780	667.0	.34987
#1	.20464	9.8017	.19526	-.0183	.19313
#2	.20532	9.8373	.19425	.0281	.19218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20140**	**.20094**	**10.086**	**9.4933**	**.19394**
Stddev	.00100	.00009	.017	.0111	.00132
%RSD	.49567	.04376	.16760	.11654	.68204
#1	.20210	.20100	10.074	9.4855	.19300
#2	.20069	.20088	10.098	9.5011	.19487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629787/2-B Acquired: 6/15/2022 12:56:12 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.212**	**.20085**	**.20307**	**9.5829**	**.18855**
Stddev	.018	.00037	.00140	.0231	.00039
%RSD	.17747	.18566	.68988	.24110	.20923
#1	10.199	.20112	.20406	9.5665	.18883
#2	10.225	.20059	.20208	9.5992	.18827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.73**	**.19203**	**9.6360**	**.20341**	**.19342**
Stddev	.00	.00082	.0349	.00001	.00233
%RSD	.0026	.42827	.36193	.00384	1.2058
#1	24.73	.19145	9.6607	.20341	.19177
#2	24.73	.19261	9.6114	.20340	.19507
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3486**	**.23135**	**.20708**	**.9948**	**.20183**
Stddev	.0327	.00041	.00049	.0044	.00034
%RSD	.34973	.17668	.23857	.4447	.16960
#1	9.3255	.23164	.20673	.9917	.20207
#2	9.3717	.23106	.20743	.9980	.20159
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629787/2-B Acquired: 6/15/2022 12:56:12 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19548**	**.19754**	**.19984**	**1.003**
Stddev	.00124	.00002	.00040	.001
%RSD	.63199	.01183	.20087	.0615
#1	.19635	.19753	.20012	1.003
#2	.19460	.19756	.19956	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2967.1**	**2476.1**	**24057.**	**3496.9**
Stddev	5.5	4.9	75.	13.7
%RSD	.18689	.19710	.31311	.39108
#1	2963.2	2472.6	24003.	3506.6
#2	2971.0	2479.5	24110.	3487.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.640%	96.450%	95.585%	97.584%
Range				

Sample Name: 480-198720-E-1-B Acquired: 6/15/2022 12:59:55 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**.03646**	**.00054**	**.00910**	**.06576**
Stddev	.00030	.02046	.00004	.00019	.00016
%RSD	44.030	56.099	6.6675	2.0412	.25062
#1	-.00047	.05093	.00051	.00896	.06587
#2	-.00090	.02200	.00057	.00923	.06564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**40.559**	**.00011**	**-.0024**	**-.00005**
Stddev	.00032	.460	.00001	.0725	.00004
%RSD	245.06	1.1341	10.528	2962.	76.495
#1	.00036	40.234	.00012	.0488	-.00008
#2	-.00010	40.884	.00010	-.0537	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**-.00014**	**.03727**	**1.5954**	**.00628**
Stddev	.00004	.00097	.01449	.0029	.00071
%RSD	5.2943	695.21	38.864	.18478	11.358
#1	.00080	.00054	.04752	1.5975	.00678
#2	.00074	-.00082	.02703	1.5934	.00577
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-E-1-B Acquired: 6/15/2022 12:59:55 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5028**	**.00129**	**.00081**	**4.0268**	**.00007**
Stddev	.0270	.00002	.00009	.0294	.00002
%RSD	.28401	1.4137	11.663	.73028	23.314
#1	9.5219	.00128	.00074	4.0060	.00006
#2	9.4838	.00131	.00087	4.0476	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00054**	**4.4879**	**-.00012**	**.00030**
Stddev	.00	.00054	.0207	.00218	.00134
%RSD	.0036	100.03	.46186	1801.4	450.85
#1	25.02	-.00016	4.4732	-.00166	-.00065
#2	25.02	-.00091	4.5025	.00142	.00124
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.3246**	**.00057**	**.07271**	**.9971**	**.00073**
Stddev	.0344	.00029	.00039	.0015	.00039
%RSD	.79582	50.586	.53136	.1529	53.184
#1	4.3002	.00077	.07244	.9981	.00046
#2	4.3489	.00036	.07299	.9960	.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-E-1-B Acquired: 6/15/2022 12:59:55 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00062**	**-.00021**	**.00526**	**1.001**
Stddev	.00060	.00017	.00057	.000
%RSD	96.333	79.194	10.894	.0209
#1	-.00104	-.00033	.00486	1.000
#2	-.00020	-.00009	.00567	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3008.9**	**2490.4**	**24236.**	**3576.5**
Stddev	9.8	4.4	39.	15.5
%RSD	.32641	.17482	.16137	.43385
#1	3002.0	2487.3	24209.	3587.5
#2	3015.9	2493.5	24264.	3565.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.946%	97.006%	96.298%	99.806%
Range				

Sample Name: 480-198720-E-2-BSD@5 Acquired: 6/15/2022 13:03:48 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**-.00875**	**.00143**	**.00968**	**.15135**
Stddev	.00017	.00295	.00066	.00015	.00013
%RSD	37.018	33.697	46.477	1.5773	.08397
#1	-.00035	-.01084	.00190	.00957	.15144
#2	-.00060	-.00667	.00096	.00979	.15126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**41.530**	**.00008**	**.0195**	**-.00010**
Stddev	.00009	.190	.00005	.0181	.00008
%RSD	508.20	.45683	55.207	92.62	77.443
#1	-.00004	41.664	.00011	.0067	-.00016
#2	.00008	41.396	.00005	.0323	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**-.00001**	**.00238**	**.69891**	**.00484**
Stddev	.00023	.00073	.00107	.04522	.00048
%RSD	281.32	5822.9	44.779	6.4708	9.9624
#1	-.00008	.00051	.00163	.66693	.00450
#2	.00024	-.00053	.00313	.73089	.00519
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-E-2-BSD@5 Acquired: 6/15/2022 13:03:48 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8720**	**.13642**	**.00058**	**4.5799**	**.00005**
Stddev	.0038	.00031	.00006	.0182	.00014
%RSD	.03812	.22670	10.162	.39755	279.77
#1	9.8693	.13620	.00054	4.5928	.00015
#2	9.8746	.13664	.00063	4.5670	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00023**	**4.6299**	**-.00006**	**-.00094**
Stddev	.00	.00035	.0001	.00137	.00105
%RSD	.0015	152.39	.00199	2251.9	112.36
#1	25.02	.00002	4.6300	.00091	-.00019
#2	25.02	-.00048	4.6298	-.00103	-.00168
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5659**	**-.00007**	**.07878**	**1.000**	**.00028**
Stddev	.0411	.00014	.00034	.004	.00033
%RSD	.90130	198.74	.43293	.3598	116.28
#1	4.5950	-.00017	.07902	1.003	.00051
#2	4.5368	.00003	.07854	.9977	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-E-2-BSD@5 Acquired: 6/15/2022 13:03:48 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00043**	**-.00033**	**.00493**	**1.000**
Stddev	.00112	.00044	.00031	.001
%RSD	258.88	131.97	6.2171	.0949
#1	-.00122	-.00064	.00472	1.001
#2	.00036	-.00002	.00515	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3007.9**	**2484.0**	**24297.**	**3652.9**
Stddev	.6	.6	26.	11.3
%RSD	.02088	.02391	.10727	.31056
#1	3007.5	2484.4	24278.	3644.8
#2	3008.4	2483.6	24315.	3660.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.915%	96.758%	96.539%	101.94%
Range				

Sample Name: 480-198720-E-2-BPDS Acquired: 6/15/2022 13:07:40 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**-.01461**	**.00076**	**.00161**	**.03063**
Stddev	.00021	.04112	.00003	.00039	.00006
%RSD	74.544	281.43	4.1697	24.394	.19259
#1	-.00043	-.04369	.00078	.00133	.03059
#2	-.00013	.01447	.00074	.00188	.03067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**8.4128**	**-.00021**	**.0280**	**-.00004**
Stddev	.00005	.0076	.00001	.0531	.00007
%RSD	3091.0	.09009	5.5109	189.3	188.34
#1	.00004	8.4182	-.00020	.0656	.00001
#2	-.00004	8.4075	-.00021	-.0095	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.00015**	**-.00153**	**.08904**	**.00123**
Stddev	.00010	.00055	.00052	.03699	.00010
%RSD	79.284	371.46	33.715	41.545	7.9549
#1	-.00019	-.00054	-.00189	.11520	.00130
#2	-.00005	.00024	-.00117	.06288	.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-E-2-BPDS Acquired: 6/15/2022 13:07:40 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9995**	**.02779**	**.00012**	**.91469**	**.00001**
Stddev	.0136	.00002	.00006	.00540	.00019
%RSD	.68057	.08511	49.094	.59058	1814.9
#1	1.9899	.02781	.00008	.91087	.00014
#2	2.0091	.02778	.00016	.91851	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00114**	**.90436**	**-.00220**	**-.00110**
Stddev	.00	.00120	.00649	.00157	.00213
%RSD	.0002	105.39	.71749	71.207	193.50
#1	25.02	-.00198	.89977	-.00331	.00041
#2	25.02	-.00029	.90895	-.00109	-.00261
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.90681**	**.00001**	**.01589**	**1.001**	**-.00037**
Stddev	.00927	.00080	.00001	.002	.00021
%RSD	1.0224	5727.4	.05348	.2190	56.576
#1	.90025	-.00055	.01588	.9990	-.00022
#2	.91336	.00058	.01589	1.002	-.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-E-2-BPDS Acquired: 6/15/2022 13:07:40 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00017**	**.00083**	**1.001**
Stddev	.00036	.00016	.00058	.001
%RSD	756.30	93.276	70.045	.0965
#1	.00021	-.00029	.00124	1.002
#2	-.00030	-.00006	.00042	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3093.5**	**2490.7**	**24443.**	**3570.9**
Stddev	6.4	7.7	126.	6.7
%RSD	.20537	.31060	.51645	.18776
#1	3089.0	2485.3	24533.	3575.6
#2	3098.0	2496.2	24354.	3566.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.587%	97.020%	97.121%	99.649%
Range				

Sample Name: 480-198720-E-2-B Acquired: 6/15/2022 13:11:33 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05257**	**10.401**	**.21895**	**.21955**	**.36712**
Stddev	.00062	.033	.00025	.00028	.00125
%RSD	1.1787	.31752	.11504	.12556	.34069
#1	.05300	10.377	.21913	.21975	.36623
#2	.05213	10.424	.21877	.21936	.36800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21573**	**50.407**	**.20949**	**.0006**	**.20584**
Stddev	.00058	.201	.00014	.0376	.00002
%RSD	.26687	.39911	.06900	6645.	.00895
#1	.21532	50.265	.20938	.0272	.20585
#2	.21614	50.549	.20959	-.0261	.20583
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21672**	**.21603**	**10.552**	**10.138**	**.20238**
Stddev	.00083	.00156	.064	.025	.00161
%RSD	.38502	.72420	.60587	.24409	.79432
#1	.21613	.21492	10.507	10.120	.20125
#2	.21731	.21713	10.597	10.155	.20352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-E-2-B Acquired: 6/15/2022 13:11:33 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.455**	**.34623**	**.21753**	**14.147**	**.20105**
Stddev	.108	.00136	.00021	.035	.00018
%RSD	.52964	.39402	.09729	.24397	.09167
#1	20.378	.34527	.21738	14.123	.20092
#2	20.531	.34720	.21768	14.172	.20118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.71**	**.20689**	**15.003**	**.22351**	**.21030**
Stddev	.00	.00016	.024	.00159	.00135
%RSD	.0058	.07501	.16281	.71031	.64203
#1	24.71	.20678	14.986	.22464	.20935
#2	24.71	.20700	15.021	.22239	.21126
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.605**	**.20373**	**.28807**	**1.007**	**.21506**
Stddev	.060	.00005	.00114	.003	.00029
%RSD	.40882	.02531	.39732	.2624	.13717
#1	14.563	.20376	.28726	1.005	.21485
#2	14.647	.20369	.28888	1.009	.21527
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-E-2-B Acquired: 6/15/2022 13:11:33 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21386**	**.21058**	**.21551**	**1.001**
Stddev	.00054	.00116	.00009	.000
%RSD	.25358	.55302	.04240	.0065
#1	.21347	.20975	.21544	1.001
#2	.21424	.21140	.21557	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2910.0**	**2471.2**	**23806.**	**3623.2**
Stddev	4.4	2.7	92.	11.8
%RSD	.15241	.11115	.38794	.32589
#1	2906.9	2469.3	23871.	3631.6
#2	2913.1	2473.1	23741.	3614.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.857%	96.259%	94.589%	101.11%
Range				

Sample Name: 480-198720-E-2-C MS Acquired: 6/15/2022 13:15:16 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04941**	**9.5377**	**.21274**	**.20348**	**.35478**
Stddev	.00008	.0345	.00114	.00019	.00047
%RSD	.16319	.36128	.53574	.09359	.13371
#1	.04947	9.5133	.21193	.20335	.35445
#2	.04935	9.5621	.21355	.20362	.35512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21180**	**51.501**	**.20548**	**.0403**	**.20244**
Stddev	.00084	.128	.00004	.0191	.00015
%RSD	.39714	.24824	.01849	47.35	.07650
#1	.21120	51.411	.20545	.0268	.20254
#2	.21239	51.591	.20551	.0538	.20233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20768**	**.20971**	**10.366**	**9.5066**	**.18725**
Stddev	.00083	.00005	.003	.0468	.00019
%RSD	.39855	.02306	.02538	.49178	.10330
#1	.20827	.20974	10.364	9.4736	.18738
#2	.20709	.20967	10.367	9.5397	.18711
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-E-2-C MS Acquired: 6/15/2022 13:15:16 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.499**	**.34010**	**.21377**	**13.528**	**.19703**
Stddev	.032	.00001	.00022	.044	.00003
%RSD	.15749	.00311	.10370	.32668	.01723
#1	20.476	.34010	.21361	13.496	.19700
#2	20.521	.34011	.21393	13.559	.19705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.72**	**.20444**	**14.545**	**.21553**	**.20618**
Stddev	.00	.00148	.017	.00067	.00448
%RSD	.0063	.72350	.11651	.31206	2.1741
#1	24.72	.20339	14.533	.21601	.20301
#2	24.72	.20548	14.557	.21506	.20935
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.444**	**.24002**	**.27052**	**1.002**	**.21235**
Stddev	.041	.00018	.00033	.001	.00065
%RSD	.28674	.07415	.12051	.0504	.30566
#1	14.415	.24015	.27075	1.002	.21190
#2	14.474	.23990	.27029	1.003	.21281
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-E-2-C MS Acquired: 6/15/2022 13:15:16 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20485**	**.20651**	**.21011**	**1.001**
Stddev	.00025	.00026	.00013	.001
%RSD	.12196	.12564	.06049	.0882
#1	.20468	.20633	.21002	.9999
#2	.20503	.20670	.21020	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2911.7**	**2475.8**	**23915.**	**3636.1**
Stddev	11.2	8.7	7.	2.6
%RSD	.38404	.35338	.02937	.07106
#1	2903.8	2469.6	23910.	3634.3
#2	2919.6	2482.0	23920.	3637.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.911%	96.438%	95.021%	101.47%
Range				

Sample Name: 480-198720-E-2-D MSD Acquired: 6/15/2022 13:18:59 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04969**	**10.391**	**.20513**	**.22189**	**.37210**
Stddev	.00032	.039	.00030	.00010	.00047
%RSD	.64941	.37307	.14430	.04530	.12527
#1	.04946	10.364	.20492	.22196	.37243
#2	.04992	10.419	.20534	.22182	.37177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20528**	**51.683**	**.19976**	**.0130**	**.19620**
Stddev	.00002	.037	.00044	.0178	.00020
%RSD	.01136	.07115	.21903	136.5	.10005
#1	.20526	51.657	.19945	.0005	.19606
#2	.20530	51.709	.20007	.0256	.19634
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20018**	**.20324**	**10.026**	**10.456**	**.20684**
Stddev	.00011	.00067	.003	.045	.00131
%RSD	.05733	.33200	.02875	.43275	.63462
#1	.20010	.20277	10.028	10.488	.20591
#2	.20027	.20372	10.024	10.424	.20777
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-E-2-D MSD Acquired: 6/15/2022 13:18:59 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.025**	**.33956**	**.20778**	**14.529**	**.19119**
Stddev	.003	.00020	.00047	.004	.00071
%RSD	.01664	.05753	.22785	.02789	.37335
#1	20.028	.33942	.20745	14.532	.19068
#2	20.023	.33970	.20812	14.526	.19169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.73**	**.19685**	**14.638**	**.20992**	**.20170**
Stddev	.00	.00009	.016	.00078	.00137
%RSD	.0060	.04419	.10955	.37239	.67762
#1	24.73	.19679	14.626	.20937	.20073
#2	24.73	.19691	14.649	.21048	.20266
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.787**	**.23752**	**.29025**	**1.002**	**.20402**
Stddev	.105	.00019	.00056	.006	.00062
%RSD	.71226	.07873	.19226	.6513	.30242
#1	14.713	.23739	.29064	.9975	.20358
#2	14.862	.23765	.28986	1.007	.20445
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-E-2-D MSD Acquired: 6/15/2022 13:18:59 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19769**	**.19901**	**.22080**	**1.001**
Stddev	.00344	.00026	.00006	.000
%RSD	1.7393	.12967	.02777	.0336
#1	.19526	.19920	.22076	1.001
#2	.20012	.19883	.22084	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2911.4**	**2477.5**	**24153.**	**3695.3**
Stddev	14.6	11.5	14.	12.0
%RSD	.50177	.46502	.05728	.32356
#1	2921.7	2485.7	24144.	3703.8
#2	2901.1	2469.4	24163.	3686.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.901%	96.506%	95.969%	103.12%
Range				

Sample Name: 480-198720-E-4-B Acquired: 6/15/2022 13:22:42 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.01071**	**.00010**	**.01061**	**.15458**
Stddev	.00009	.02030	.00024	.00036	.00066
%RSD	49.533	189.50	244.96	3.3973	.42713
#1	.00025	-.00364	-.00007	.01036	.15411
#2	.00012	.02507	.00027	.01087	.15504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**43.424**	**.00016**	**.0385**	**-.00000**
Stddev	.00010	.018	.00009	.0059	.00008
%RSD	709.92	.04072	57.814	15.37	1726.5
#1	.00005	43.437	.00009	.0344	-.00006
#2	-.00008	43.412	.00022	.0427	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00028**	**.00561**	**.70711**	**.00301**
Stddev	.00008	.00088	.00041	.02481	.00122
%RSD	40.489	318.77	7.2956	3.5083	40.378
#1	.00024	.00090	.00590	.72465	.00387
#2	.00014	-.00035	.00533	.68957	.00215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-E-4-B Acquired: 6/15/2022 13:22:42 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.101**	**.14124**	**.00087**	**4.7655**	**-.00007**
Stddev	.084	.00040	.00022	.0207	.00005
%RSD	.83414	.28560	25.104	.43348	67.894
#1	10.042	.14095	.00071	4.7801	-.00003
#2	10.161	.14152	.00102	4.7509	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00002**	**4.7580**	**.00032**	**.00125**
Stddev	.00	.00027	.0180	.00063	.00078
%RSD	.0009	1634.5	.37824	195.19	62.671
#1	25.02	-.00021	4.7453	-.00012	.00070
#2	25.02	.00018	4.7708	.00076	.00180
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8075**	**.00012**	**.08118**	**.9986**	**.00052**
Stddev	.0051	.00028	.00056	.0035	.00001
%RSD	.10593	227.05	.68690	.3490	1.0056
#1	4.8111	-.00008	.08157	.9961	.00052
#2	4.8039	.00032	.08078	1.001	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198720-E-4-B Acquired: 6/15/2022 13:22:42 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.00017**	**.00476**	**.9999**
Stddev	.00039	.00009	.00041	.0015
%RSD	77.283	56.304	8.7264	.1509
#1	-.00023	.00023	.00505	.9988
#2	-.00077	.00010	.00446	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2965.7**	**2458.9**	**24088.**	**3585.0**
Stddev	6.6	2.1	196.	45.6
%RSD	.22214	.08689	.81314	1.2716
#1	2961.1	2457.4	24227.	3617.2
#2	2970.4	2460.4	23950.	3552.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.597%	95.779%	95.711%	100.04%
Range				

Sample Name: CCV-7032336 Acquired: 6/15/2022 13:26:36 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0120**	**50.254**	**1.0127**	**1.0410**	**1.0046**
Stddev	.0046	.050	.0006	.0027	.0012
%RSD	.44948	.09975	.05954	.26226	.11883
#1	1.0152	50.289	1.0131	1.0390	1.0055
#2	1.0087	50.219	1.0122	1.0429	1.0038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0048**	**50.168**	**1.0156**	**.9946**	**1.0005**
Stddev	.0023	.211	.0029	.0345	.0025
%RSD	.22804	.42068	.28408	3.474	.24549
#1	1.0064	50.317	1.0136	1.019	.99874
#2	1.0032	50.018	1.0177	.9701	1.0022
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0240**	**1.0075**	**50.679**	**49.143**	**.99118**
Stddev	.0034	.0022	.298	.216	.00135
%RSD	.33431	.22010	.58740	.43867	.13603
#1	1.0264	1.0060	50.889	49.296	.99022
#2	1.0216	1.0091	50.468	48.991	.99213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 13:26:36 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.641**	**1.0189**	**1.0216**	**49.743**	**1.0039**
Stddev	.240	.0013	.0034	.045	.0022
%RSD	.47323	.12302	.32750	.09035	.21727
#1	50.810	1.0198	1.0192	49.775	1.0024
#2	50.471	1.0181	1.0240	49.711	1.0055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.78**	**1.0014**	**25.233**	**1.0089**	**1.0256**
Stddev	.03	.0056	.067	.0001	.0013
%RSD	.0789	.55557	.26512	.01466	.12300
#1	37.76	.99745	25.186	1.0088	1.0247
#2	37.80	1.0053	25.280	1.0090	1.0264
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.068**	**.99504**	**1.0043**	**1.508**	**1.0139**
Stddev	.003	.00519	.0008	.002	.0001
%RSD	.02803	.52189	.07893	.1583	.01372
#1	10.070	.99136	1.0048	1.510	1.0138
#2	10.066	.99871	1.0037	1.506	1.0140
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 13:26:36 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0139**	**1.0178**	**1.0216**	**1.503**
Stddev	.0089	.0039	.0041	.002
%RSD	.87402	.37973	.40415	.1513
#1	1.0077	1.0205	1.0245	1.505
#2	1.0202	1.0150	1.0187	1.502
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2672.6**	**2391.6**	**22771.**	**3406.9**
Stddev	5.6	4.4	101.	38.3
%RSD	.20881	.18585	.44383	1.1246
#1	2676.6	2394.7	22699.	3379.8
#2	2668.7	2388.4	22842.	3434.0

Sample Name: CCB-7026764 Acquired: 6/15/2022 13:30:16 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.01452**	**-.00010**	**.00131**	**.00007**
Stddev	.00051	.01020	.00147	.00018	.00002
%RSD	296.46	70.228	1428.4	13.917	26.323
#1	-.00053	-.02173	.00093	.00144	.00009
#2	.00019	-.00731	-.00114	.00118	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.00198**	**-.00000**	**.0254**	**-.00009**
Stddev	.00000	.00132	.00000	.0151	.00003
%RSD	6.2171	66.728	2.0369	59.54	35.152
#1	.00005	-.00105	-.00000	.0360	-.00012
#2	.00006	-.00292	-.00000	.0147	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.00063**	**-.00011**	**.04659**	**-.00032**
Stddev	.00057	.00034	.00390	.00992	.00078
%RSD	304.63	53.855	3490.7	21.292	246.12
#1	.00022	.00039	-.00287	.03958	-.00086
#2	-.00059	.00086	.00265	.05361	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 13:30:16 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**-.00015**	**.00040**	**.01344**	**.00012**
Stddev	.00219	.00003	.00000	.01219	.00012
%RSD	665.57	23.600	.23874	90.694	101.15
#1	-.00122	-.00012	.00040	.00482	.00003
#2	.00188	-.00017	.00040	.02205	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00045**	**.00039**	**.00026**	**.00021**
Stddev	.00	.00007	.00452	.00187	.00100
%RSD	.0001	15.257	1157.1	731.85	474.64
#1	25.02	-.00040	.00358	-.00107	-.00050
#2	25.02	-.00050	-.00280	.00158	.00092
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00558**	**-.00028**	**-.00005**	**.9949**	**.00011**
Stddev	.01556	.00022	.00006	.0024	.00012
%RSD	279.15	78.761	125.07	.2431	109.62
#1	.00543	-.00044	-.00001	.9932	.00019
#2	-.01658	-.00013	-.00009	.9966	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 13:30:16 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00017**	**-.00210**	**1.001**
Stddev	.00037	.00028	.00020	.001
%RSD	313.53	161.97	9.5908	.0553
#1	.00038	-.00003	-.00196	1.000
#2	-.00014	.00037	-.00224	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3133.6**	**2509.7**	**24868.**	**3568.9**
Stddev	20.6	17.6	53.	9.2
%RSD	.65619	.70044	.21123	.25680
#1	3148.2	2522.2	24831.	3562.5
#2	3119.1	2497.3	24906.	3575.4

Sample Name: CCVL-7028546 Acquired: 6/15/2022 13:34:13 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00539**	**.18970**	**.01327**	**.01982**	**.00212**
Stddev	.00012	.00314	.00040	.00060	.00000
%RSD	2.3164	1.6547	3.0503	3.0221	.11236
#1	.00530	.18748	.01355	.01940	.00212
#2	.00548	.19192	.01298	.02024	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00203**	**.49177**	**.00191**	**.0418**	**.00358**
Stddev	.00017	.00276	.00002	.0126	.00004
%RSD	8.3902	.56145	1.2751	30.08	1.1810
#1	.00191	.48982	.00193	.0329	.00361
#2	.00215	.49372	.00190	.0507	.00355
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00370**	**.01027**	**.04869**	**.50385**	**.02747**
Stddev	.00014	.00054	.00285	.00186	.00012
%RSD	3.8391	5.2902	5.8477	.37002	.42500
#1	.00380	.01066	.05070	.50253	.02739
#2	.00360	.00989	.04668	.50517	.02756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/15/2022 13:34:13 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19026**	**.00318**	**.01023**	**.93598**	**.00907**
Stddev	.00239	.00000	.00020	.01006	.00019
%RSD	1.2542	.00794	1.9747	1.0748	2.1403
#1	.18857	.00318	.01008	.92886	.00920
#2	.19195	.00318	.01037	.94309	.00893
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00836**	**.19474**	**.01965**	**.02388**
Stddev	.00	.00150	.00340	.00177	.00144
%RSD	.0055	17.942	1.7438	8.9831	6.0483
#1	25.00	.00730	.19233	.02090	.02490
#2	25.00	.00942	.19714	.01840	.02285
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47240**	**.00947**	**.00493**	F **1.004**	**.00484**
Stddev	.01060	.00024	.00004	.002	.00018
%RSD	2.2442	2.4865	.86296	.2161	3.7580
#1	.46491	.00964	.00490	1.003	.00471
#2	.47990	.00931	.00496	1.006	.00497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/15/2022 13:34:13 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01944**	**.00473**	**.01017**	F **1.0000**
Stddev	.00203	.00006	.00024	.0013
%RSD	10.452	1.2222	2.3500	.1265
#1	.02087	.00469	.01034	.9991
#2	.01800	.00477	.01000	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3128.9**	**2508.7**	**24946.**	**3570.7**
Stddev	.5	1.9	73.	20.4
%RSD	.01697	.07679	.29248	.57046
#1	3129.3	2507.4	24895.	3556.3
#2	3128.5	2510.1	24998.	3585.1

Sample Name: 480-198813-R-2-B Acquired: 6/15/2022 13:38:08 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**.00503**	**.00334**	**.23235**	**.46564**
Stddev	.00023	.00235	.00298	.00031	.00144
%RSD	29.896	46.672	88.973	.13360	.30891
#1	-.00062	.00669	.00124	.23213	.46666
#2	-.00095	.00337	.00545	.23257	.46462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**96.789**	**.00034**	**-.0637**	**.00328**
Stddev	.00007	.064	.00001	.0013	.00023
%RSD	1141.3	.06566	3.4894	1.998	6.9424
#1	-.00006	96.834	.00033	-.0628	.00344
#2	.00005	96.744	.00035	-.0646	.00312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00246**	**.00501**	**9.9340**	**.00065**
Stddev	.00043	.00036	.00106	.0464	.00114
%RSD	131.89	14.682	21.095	.46735	174.84
#1	.00063	.00220	.00575	9.9012	.00146
#2	.00002	.00272	.00426	9.9668	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-R-2-B Acquired: 6/15/2022 13:38:08 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.734**	**12.174**	**-.00031**	**15.279**	**.00289**
Stddev	.054	.001	.00001	.011	.00012
%RSD	.27185	.00614	4.5792	.07112	4.2254
#1	19.772	12.173	-.00030	15.287	.00281
#2	19.696	12.174	-.00032	15.272	.00298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00092**	**.89163**	**.00115**	**-.00351**
Stddev	.00	.00050	.00551	.00204	.00120
%RSD	.0022	54.717	.61767	176.28	34.197
#1	25.02	.00128	.88774	-.00028	-.00266
#2	25.02	.00057	.89553	.00259	-.00436
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.3690**	**.00003**	**.28910**	**.9993**	**.00077**
Stddev	.0238	.00015	.00024	.0114	.00047
%RSD	.44322	488.10	.08241	1.137	61.421
#1	5.3858	-.00007	.28927	.9913	.00043
#2	5.3521	.00014	.28894	1.007	.00110
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-R-2-B Acquired: 6/15/2022 13:38:08 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00317**	**-.00064**	**.00475**	**.9963**
Stddev	.00114	.00058	.00002	.0008
%RSD	35.927	90.169	.39062	.0839
#1	-.00236	-.00023	.00474	.9969
#2	-.00397	-.00105	.00477	.9957
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2844.7**	**2423.7**	**23428.**	**3461.1**
Stddev	13.8	8.5	2.	3.6
%RSD	.48627	.35185	.00987	.10510
#1	2835.0	2417.7	23426.	3463.7
#2	2854.5	2429.7	23430.	3458.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.819%	94.408%	93.087%	96.586%
Range				

Sample Name: 480-198813-R-8-B Acquired: 6/15/2022 13:42:06 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.20236**	**.00156**	**.01889**	**.25911**
Stddev	.00006	.01784	.00144	.00026	.00014
%RSD	32.936	8.8135	92.423	1.3709	.05551
#1	-.00015	.21498	.00258	.01871	.25901
#2	-.00024	.18975	.00054	.01908	.25922
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**72.107**	**.00014**	**-.0102**	**.00068**
Stddev	.00008	.126	.00000	.0111	.00002
%RSD	136.26	.17418	2.4753	108.9	2.8988
#1	-.00000	72.018	.00014	-.0180	.00066
#2	-.00011	72.196	.00013	-.0023	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**.00278**	**.18291**	**2.3510**	**-.00115**
Stddev	.00009	.00010	.00240	.0271	.00063
%RSD	11.467	3.4628	1.3129	1.1527	54.918
#1	.00071	.00271	.18121	2.3701	-.00160
#2	.00083	.00285	.18461	2.3318	-.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-R-8-B Acquired: 6/15/2022 13:42:06 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.534**	**.99623**	**-.00004**	**29.935**	**.00127**
Stddev	.001	.00202	.00025	.048	.00031
%RSD	.00482	.20286	693.34	.16133	24.186
#1	10.534	.99766	.00014	29.901	.00106
#2	10.534	.99481	-.00021	29.969	.00149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00032**	**3.3105**	**-.00025**	**-.00276**
Stddev	.00	.00009	.0169	.00065	.00202
%RSD	.0033	27.734	.51107	263.11	73.028
#1	25.02	-.00038	3.2985	.00021	-.00134
#2	25.02	-.00026	3.3224	-.00071	-.00419
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.0403**	**-.00012**	**.15228**	**.9977**	**.00403**
Stddev	.0434	.00018	.00031	.0143	.00050
%RSD	1.4286	147.79	.20413	1.430	12.360
#1	3.0710	.00001	.15250	1.008	.00368
#2	3.0096	-.00025	.15206	.9876	.00438
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-R-8-B Acquired: 6/15/2022 13:42:06 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.00019**	**.00584**	**1.001**
Stddev	.00092	.00033	.00025	.000
%RSD	249.66	171.53	4.2041	.0053
#1	.00028	.00043	.00566	1.001
#2	-.00102	-.00004	.00601	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2899.3**	**2449.8**	**24127.**	**3627.9**
Stddev	3.7	8.4	64.	5.2
%RSD	.12696	.34380	.26708	.14235
#1	2901.9	2455.7	24081.	3631.6
#2	2896.7	2443.8	24172.	3624.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.523%	95.424%	95.864%	101.24%
Range				

Sample Name: 480-198813-D-10-B Acquired: 6/15/2022 13:45:58 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**.05498**	**.00033**	**.16893**	**.21129**
Stddev	.00006	.02370	.00153	.00001	.00044
%RSD	7.3585	43.100	459.24	.00753	.20589
#1	-.00079	.07174	.00141	.16892	.21159
#2	-.00087	.03823	-.00075	.16893	.21098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**99.068**	**.00012**	**-.0207**	**.00072**
Stddev	.00009	.692	.00014	.0156	.00004
%RSD	192.10	.69810	109.99	75.13	5.5367
#1	.00011	98.579	.00003	-.0317	.00069
#2	-.00002	99.557	.00022	-.0097	.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00099**	**.04633**	**2.0413**	**.00143**
Stddev	.00011	.00098	.00476	.0227	.00239
%RSD	353.89	99.277	10.267	1.1114	167.41
#1	-.00011	.00168	.04969	2.0573	-.00026
#2	.00005	.00029	.04296	2.0252	.00312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-10-B Acquired: 6/15/2022 13:45:58 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.046**	**4.4370**	**-.00015**	**32.025**	**.00525**
Stddev	.007	.0016	.00020	.162	.00031
%RSD	.03512	.03676	131.47	.50532	5.8747
#1	19.041	4.4382	-.00001	31.910	.00547
#2	19.050	4.4359	-.00029	32.139	.00503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00081**	**2.4587**	**-.00259**	**-.00169**
Stddev	.00	.00018	.0021	.00153	.00155
%RSD	.0001	22.598	.08592	59.121	91.747
#1	25.02	.00094	2.4572	-.00368	-.00279
#2	25.02	.00068	2.4602	-.00151	-.00059
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.6980**	**-.00005**	**.25325**	**.9925**	**.00093**
Stddev	.0062	.00048	.00068	.0025	.00032
%RSD	.13133	987.97	.26890	.2509	34.581
#1	4.7023	-.00038	.25277	.9908	.00116
#2	4.6936	.00029	.25373	.9943	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198813-D-10-B Acquired: 6/15/2022 13:45:58 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00057**	**-.00035**	**.01012**	**.9996**
Stddev	.00083	.00001	.00027	.0005
%RSD	145.35	2.8109	2.6555	.0534
#1	.00002	-.00034	.01031	1.0000
#2	-.00115	-.00036	.00993	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2830.9**	**2419.0**	**23635.**	**3525.7**
Stddev	2.9	.1	17.	13.7
%RSD	.10305	.00497	.07008	.38901
#1	2833.0	2419.1	23646.	3535.4
#2	2828.8	2418.9	23623.	3516.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.387%	94.227%	93.908%	98.388%
Range				

Sample Name: MB 480-629850/1-A Acquired: 6/15/2022 13:49:49 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.00114**	**-.00056**	**.00353**	**.00006**
Stddev	.00031	.04484	.00037	.00017	.00002
%RSD	109.87	3934.9	65.479	4.7229	34.888
#1	-.00050	-.03057	-.00030	.00365	.00008
#2	-.00006	.03285	-.00082	.00341	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.02688**	**-.00015**	**.0432**	**.00000**
Stddev	.00006	.00092	.00024	.0193	.00004
%RSD	78.156	3.4247	163.37	44.76	1104.7
#1	-.00004	.02753	-.00032	.0569	.00003
#2	-.00013	.02623	.00002	.0295	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.00055**	**.00022**	**.07690**	**-.00035**
Stddev	.00021	.00053	.00152	.01776	.00090
%RSD	55.177	95.012	687.32	23.094	259.51
#1	.00023	.00092	-.00085	.06435	.00029
#2	.00052	.00018	.00129	.08946	-.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629850/1-A Acquired: 6/15/2022 13:49:49 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01318**	**.00008**	**-.00011**	**.44747**	**.00017**
Stddev	.00059	.00003	.00001	.00480	.00001
%RSD	4.4637	36.720	10.594	1.0738	4.5137
#1	.01277	.00010	-.00010	.44407	.00018
#2	.01360	.00006	-.00012	.45087	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00083**	**.03156**	**-.00124**	**.00222**
Stddev	.00	.00051	.00360	.00011	.00310
%RSD	.0008	61.467	11.419	8.7899	139.70
#1	25.02	-.00047	.03411	-.00132	.00003
#2	25.02	-.00120	.02902	-.00117	.00440
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01928**	**.00047**	**.00009**	**.9992**	**-.00012**
Stddev	.01001	.00016	.00000	.0032	.00015
%RSD	51.904	32.889	4.8285	.3217	125.04
#1	-.01220	.00058	.00008	1.001	-.00001
#2	-.02636	.00036	.00009	.9969	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629850/1-A Acquired: 6/15/2022 13:49:49 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00016**	**-.00039**	**.00166**	**1.001**
Stddev	.00048	.00007	.00025	.000
%RSD	307.88	18.419	15.093	.0178
#1	.00019	-.00044	.00184	1.001
#2	-.00050	-.00034	.00149	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3151.7**	**2514.8**	**24900.**	**3584.3**
Stddev	12.4	5.5	34.	11.5
%RSD	.39479	.21863	.13643	.32049
#1	3160.5	2518.7	24876.	3576.1
#2	3142.9	2510.9	24924.	3592.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.403%	97.959%	98.935%	100.02%
Range				

Sample Name: LCS 480-629850/2-A Acquired: 6/15/2022 13:53:44 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04790**	**9.9103**	**-.00049**	**.20512**	**.21293**
Stddev	.00113	.0253	.00048	.00021	.00077
%RSD	2.3495	.25518	98.009	.10306	.36104
#1	.04870	9.9282	-.00083	.20527	.21347
#2	.04710	9.8924	-.00015	.20497	.21238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.05003**	**-.00009**	**.0051**	**-.00018**
Stddev	.00002	.00194	.00007	.0036	.00005
%RSD	45.038	3.8756	71.543	71.06	29.392
#1	-.00006	.05140	-.00014	.0076	-.00014
#2	-.00003	.04866	-.00005	.0025	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.00038**	**.00317**	**9.4498**	**.18918**
Stddev	.00035	.00026	.00060	.0093	.00056
%RSD	114.96	68.972	19.061	.09874	.29462
#1	.00006	.00057	.00274	9.4432	.18878
#2	.00056	.00020	.00360	9.4564	.18957
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629850/2-A Acquired: 6/15/2022 13:53:44 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01684**	**.00025**	**-.00024**	**9.6773**	**-.00002**
Stddev	.00312	.00006	.00003	.0158	.00034
%RSD	18.507	25.141	10.624	.16361	1560.8
#1	.01463	.00030	-.00022	9.6885	-.00026
#2	.01904	.00021	-.00026	9.6661	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00076**	**9.9896**	**.00084**	**.00055**
Stddev	.00	.00010	.0043	.00113	.00275
%RSD	.0060	13.044	.04294	133.43	503.30
#1	25.02	.00069	9.9865	.00005	-.00140
#2	25.02	.00083	9.9926	.00164	.00250
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.9852**	**.23430**	**.20293**	**1.003**	**.00018**
Stddev	.0086	.00003	.00054	.002	.00004
%RSD	.09548	.01164	.26830	.1532	25.009
#1	8.9791	.23432	.20331	1.002	.00015
#2	8.9913	.23429	.20254	1.004	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629850/2-A Acquired: 6/15/2022 13:53:44 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00020**	**.00104**	**1.001**
Stddev	.00015	.00025	.00038	.000
%RSD	594.75	125.32	36.189	.0098
#1	-.00008	-.00002	.00131	1.001
#2	.00013	-.00037	.00078	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3052.2**	**2510.7**	**24522.**	**3635.5**
Stddev	.2	1.2	85.	9.5
%RSD	.00724	.04906	.34842	.26204
#1	3052.1	2509.8	24582.	3642.3
#2	3052.4	2511.5	24461.	3628.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.297%	97.797%	97.433%	101.45%
Range				

Sample Name: 480-198954-B-1-A Acquired: 6/15/2022 13:57:36 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.03513**	**.00146**	**.03744**	**.07453**
Stddev	.00035	.00487	.00041	.00013	.00006
%RSD	910.28	13.859	28.319	.34943	.07657
#1	.00029	.03169	.00117	.03753	.07457
#2	-.00021	.03857	.00175	.03735	.07449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**124.92**	**.00058**	**.0021**	**.00024**
Stddev	.00011	.21	.00004	.0488	.00013
%RSD	379.13	.16547	7.2319	2365.	52.676
#1	-.00010	124.77	.00061	-.0324	.00015
#2	.00005	125.06	.00055	.0366	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**.00220**	**.11197**	**2.0454**	**-.00059**
Stddev	.00061	.00050	.00097	.0422	.00025
%RSD	29.494	22.464	.86524	2.0649	42.151
#1	.00249	.00185	.11266	2.0155	-.00077
#2	.00163	.00255	.11129	2.0752	-.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198954-B-1-A Acquired: 6/15/2022 13:57:36 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**58.293**	**.24194**	**-.00000**	**7.7727**	**.00161**
Stddev	.010	.00001	.00017	.0352	.00018
%RSD	.01799	.00313	8465.4	.45255	11.458
#1	58.286	.24194	-.00012	7.7479	.00148
#2	58.301	.24193	.00012	7.7976	.00174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00037**	**12.995**	**-.00058**	**-.00259**
Stddev	.00	.00047	.005	.00290	.00351
%RSD	.0005	126.49	.03825	495.96	135.36
#1	25.02	-.00070	12.999	.00146	-.00508
#2	25.02	-.00004	12.992	-.00263	-.00011
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.4484**	**-.00011**	**.16730**	**1.000**	**.00260**
Stddev	.0285	.00017	.00003	.001	.00007
%RSD	.44241	159.56	.01861	.0700	2.6717
#1	6.4686	.00001	.16728	1.001	.00255
#2	6.4282	-.00023	.16733	.9998	.00265
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198954-B-1-A Acquired: 6/15/2022 13:57:36 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00053**	**-.00061**	**.00324**	**1.001**
Stddev	.00043	.00028	.00050	.000
%RSD	81.477	46.551	15.311	.0407
#1	-.00084	-.00081	.00289	1.001
#2	-.00023	-.00041	.00360	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2798.2**	**2387.2**	**23412.**	**3552.7**
Stddev	3.9	.7	31.	12.3
%RSD	.13803	.02750	.13134	.34546
#1	2800.9	2387.7	23433.	3544.0
#2	2795.5	2386.7	23390.	3561.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.367%	92.987%	93.022%	99.142%
Range				

Sample Name: 480-198954-B-1-ASD@5 Acquired: 6/15/2022 14:01:27 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00840**	**.00073**	**.00688**	**.01521**
Stddev	.00008	.00121	.00066	.00041	.00007
%RSD	43.088	14.404	91.261	5.9280	.47636
#1	-.00012	.00926	.00120	.00717	.01516
#2	-.00023	.00755	.00026	.00660	.01526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**24.639**	**.00005**	**.0149**	**-.00006**
Stddev	.00004	.100	.00012	.0434	.00004
%RSD	75.148	.40635	213.50	290.4	66.492
#1	-.00003	24.568	-.00003	.0456	-.00008
#2	-.00008	24.710	.00014	-.0157	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**.00134**	**.01908**	**.41178**	**-.00046**
Stddev	.00033	.00018	.00139	.01426	.00178
%RSD	55.194	13.115	7.3029	3.4625	388.16
#1	.00037	.00122	.01809	.42186	-.00172
#2	.00084	.00147	.02006	.40170	.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198954-B-1-ASD@5 Acquired: 6/15/2022 14:01:27 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.368**	**.04856**	**-.00018**	**1.4917**	**.00052**
Stddev	.040	.00018	.00001	.0098	.00036
%RSD	.34900	.36377	5.1598	.65550	70.020
#1	11.340	.04844	-.00018	1.4848	.00077
#2	11.396	.04869	-.00017	1.4986	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00025**	**2.4653**	**-.00066**	**-.00005**
Stddev	.00	.00091	.0065	.00111	.00207
%RSD	.0013	369.29	.26173	168.31	4351.3
#1	25.02	.00040	2.4699	-.00144	.00141
#2	25.02	-.00089	2.4608	.00013	-.00151
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2665**	**.00035**	**.03355**	**1.004**	**.00013**
Stddev	.0011	.00054	.00013	.002	.00005
%RSD	.08861	156.51	.38396	.2273	40.465
#1	1.2673	.00073	.03345	1.005	.00017
#2	1.2657	-.00004	.03364	1.002	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198954-B-1-ASD@5 Acquired: 6/15/2022 14:01:27 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00109**	**-.00042**	**.00081**	**1.001**
Stddev	.00085	.00009	.00026	.000
%RSD	77.792	20.432	31.608	.0003
#1	-.00169	-.00036	.00099	1.001
#2	-.00049	-.00048	.00063	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3034.0**	**2486.5**	**24559.**	**3632.5**
Stddev	17.6	12.0	47.	9.9
%RSD	.58116	.48384	.19162	.27327
#1	3046.4	2495.0	24592.	3639.6
#2	3021.5	2478.0	24526.	3625.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.728%	96.856%	97.581%	101.37%
Range				

Sample Name: 480-198954-B-1-APDS Acquired: 6/15/2022 14:05:19 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05192**	**10.589**	**.21909**	**.25112**	**.28812**
Stddev	.00053	.089	.00308	.00009	.00044
%RSD	1.0133	.84162	1.4061	.03732	.15152
#1	.05230	10.652	.21692	.25105	.28843
#2	.05155	10.526	.22127	.25118	.28781
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22102**	**131.44**	**.21459**	**.0275**	**.20888**
Stddev	.00020	.34	.00032	.0425	.00038
%RSD	.08895	.26044	.14830	154.8	.18224
#1	.22116	131.20	.21481	.0575	.20915
#2	.22088	131.68	.21436	-.0026	.20861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22246**	**.21739**	**10.577**	**12.570**	**.20912**
Stddev	.00064	.00033	.007	.047	.00050
%RSD	.28628	.15059	.06533	.37330	.23842
#1	.22200	.21716	10.572	12.537	.20877
#2	.22291	.21763	10.582	12.604	.20947
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198954-B-1-APDS Acquired: 6/15/2022 14:05:19 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**67.854**	**.45465**	**.22257**	**17.802**	**.20627**
Stddev	.043	.00032	.00050	.012	.00086
%RSD	.06388	.07017	.22327	.06830	.41567
#1	67.884	.45442	.22292	17.793	.20688
#2	67.823	.45487	.22222	17.810	.20566
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.72**	**.20974**	**22.762**	**.22664**	**.21357**
Stddev	.00	.00227	.025	.00086	.00230
%RSD	.0048	1.0800	.10903	.37796	1.0764
#1	24.72	.21134	22.745	.22604	.21194
#2	24.73	.20814	22.780	.22725	.21519
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.582**	**.20894**	**.37197**	**1.005**	**.21692**
Stddev	.068	.00047	.00045	.004	.00026
%RSD	.40906	.22436	.12191	.4023	.12098
#1	16.534	.20927	.37229	1.002	.21710
#2	16.630	.20861	.37165	1.008	.21673
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198954-B-1-APDS Acquired: 6/15/2022 14:05:19 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21844**	**.21750**	**.21308**	**1.001**
Stddev	.00158	.00031	.00019	.001
%RSD	.72288	.14464	.08711	.1235
#1	.21956	.21772	.21295	1.000
#2	.21733	.21727	.21321	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2682.2**	**2340.8**	**22560.**	**3354.1**
Stddev	8.1	6.7	29.	23.4
%RSD	.30130	.28489	.12896	.69913
#1	2676.5	2336.1	22580.	3370.7
#2	2687.9	2345.5	22539.	3337.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.746%	91.178%	89.637%	93.600%
Range				

Sample Name: 480-198954-B-1-B MS Acquired: 6/15/2022 14:09:01 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05216**	**9.8272**	**.21112**	**.23846**	**.27961**
Stddev	.00069	.0114	.00107	.00019	.00075
%RSD	1.3314	.11628	.50653	.07797	.26994
#1	.05265	9.8191	.21036	.23833	.28014
#2	.05167	9.8352	.21187	.23860	.27908
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20829**	**129.96**	**.20398**	**.0187**	**.19851**
Stddev	.00014	.24	.00013	.0297	.00048
%RSD	.06647	.18768	.06300	159.1	.24360
#1	.20819	130.13	.20407	-.0023	.19885
#2	.20839	129.78	.20389	.0396	.19817
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20645**	**.20716**	**10.070**	**11.756**	**.19739**
Stddev	.00004	.00055	.024	.024	.00030
%RSD	.01811	.26482	.23920	.20778	.15341
#1	.20643	.20755	10.087	11.773	.19718
#2	.20648	.20677	10.053	11.738	.19760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198954-B-1-B MS Acquired: 6/15/2022 14:09:01 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**67.657**	**.43577**	**.21222**	**17.310**	**.19544**
Stddev	.186	.00034	.00026	.020	.00051
%RSD	.27495	.07820	.12038	.11479	.25933
#1	67.788	.43553	.21241	17.324	.19580
#2	67.525	.43601	.21204	17.296	.19508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.75**	**.19867**	**22.747**	**.21215**	**.20909**
Stddev	.00	.00018	.036	.00118	.00127
%RSD	.0060	.09300	.15632	.55793	.60933
#1	24.75	.19854	22.772	.21298	.20819
#2	24.75	.19880	22.722	.21131	.20999
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.052**	**.23352**	**.36109**	**1.002**	**.20788**
Stddev	.090	.00006	.00088	.001	.00008
%RSD	.64185	.02702	.24483	.1419	.04020
#1	14.116	.23356	.36172	1.004	.20782
#2	13.989	.23347	.36047	1.001	.20794
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198954-B-1-B MS Acquired: 6/15/2022 14:09:01 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20314**	**.20572**	**.19550**	**1.001**
Stddev	.00045	.00084	.00001	.000
%RSD	.22144	.40869	.00645	.0248
#1	.20282	.20512	.19551	1.001
#2	.20346	.20631	.19549	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2783.5**	**2420.2**	**23535.**	**3606.4**
Stddev	2.5	4.7	64.	6.4
%RSD	.08969	.19223	.27018	.17788
#1	2785.3	2423.5	23490.	3601.8
#2	2781.8	2416.9	23580.	3610.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.908%	94.274%	93.513%	100.64%
Range				

Sample Name: CCV-7032336 Acquired: 6/15/2022 14:12:46 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0021**	**48.938**	**1.0074**	**1.0398**	**.99851**
Stddev	.0005	.345	.0002	.0017	.00859
%RSD	.05109	.70552	.02344	.16183	.86026
#1	1.0025	49.182	1.0076	1.0386	1.0046
#2	1.0017	48.694	1.0073	1.0410	.99244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99277**	**48.622**	**1.0018**	**.9766**	**.98060**
Stddev	.00846	.376	.0011	.0350	.00038
%RSD	.85238	.77344	.11322	3.582	.03880
#1	.99875	48.888	1.0010	.9519	.98087
#2	.98678	48.356	1.0026	1.001	.98034
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0240**	**.99987**	**49.111**	**48.850**	**.98513**
Stddev	.0011	.00402	.461	.529	.00800
%RSD	.11118	.40255	.93875	1.0823	.81258
#1	1.0248	1.0027	49.437	49.224	.99079
#2	1.0231	.99703	48.785	48.476	.97947
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 14:12:46 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.400**	**1.0129**	**1.0198**	**49.256**	**.98943**
Stddev	.079	.0013	.0014	.440	.00008
%RSD	.15650	.12489	.13915	.89354	.00849
#1	50.456	1.0138	1.0188	49.567	.98949
#2	50.345	1.0120	1.0208	48.945	.98938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.58**	**.97987**	**24.830**	**1.0019**	**1.0230**
Stddev	.05	.00241	.069	.0029	.0007
%RSD	.1264	.24574	.27733	.29036	.07042
#1	37.55	.98157	24.781	.99988	1.0225
#2	37.62	.97817	24.878	1.0040	1.0235
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7535**	**.97322**	**.99401**	**1.496**	**.99792**
Stddev	.0637	.00101	.00800	.007	.00089
%RSD	.65272	.10394	.80453	.4595	.08959
#1	9.7985	.97394	.99966	1.500	.99856
#2	9.7085	.97251	.98835	1.491	.99729
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 14:12:46 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0120**	**1.0214**	**.99943**	**1.502**
Stddev	.0012	.0028	.00088	.005
%RSD	.11700	.27349	.08830	.3042
#1	1.0112	1.0234	1.0000	1.505
#2	1.0129	1.0195	.99880	1.499
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2728.8**	**2434.2**	**23124.**	**3529.4**
Stddev	3.3	1.0	68.	23.0
%RSD	.12202	.04205	.29373	.65157
#1	2726.5	2433.5	23076.	3513.1
#2	2731.2	2434.9	23172.	3545.6

Sample Name: CCB-7026764 Acquired: 6/15/2022 14:16:28 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00186**	**-.00061**	**.00162**	**.00004**
Stddev	.00046	.04060	.00171	.00005	.00001
%RSD	417.63	2186.9	280.24	2.8493	15.652
#1	.00021	-.02685	.00060	.00165	.00004
#2	-.00043	.03057	-.00182	.00159	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00019**	**-.00020**	**.0390**	**-.00007**
Stddev	.00007	.00031	.00003	.0229	.00001
%RSD	1039.0	159.83	15.870	58.53	7.9238
#1	-.00004	.00041	-.00022	.0229	-.00007
#2	.00005	-.00002	-.00018	.0552	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00046**	**-.00273**	**.04743**	**-.00056**
Stddev	.00031	.00041	.00262	.00649	.00024
%RSD	444.42	89.987	96.024	13.682	43.256
#1	.00015	.00075	-.00458	.05202	-.00073
#2	-.00029	.00017	-.00088	.04284	-.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 14:16:28 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**-.00006**	**.00001**	**.01660**	**.00004**
Stddev	.00230	.00002	.00004	.00438	.00001
%RSD	515.19	28.906	500.36	26.348	35.411
#1	-.00208	-.00005	-.00002	.01970	.00003
#2	.00118	-.00007	.00004	.01351	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00037**	**.00039**	**.00020**	**.00051**
Stddev	.00	.00045	.00050	.00137	.00001
%RSD	.0002	121.44	128.17	675.99	1.3563
#1	25.02	-.00005	.00004	-.00076	.00052
#2	25.02	-.00069	.00075	.00117	.00051
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01116**	**.00007**	**.00002**	**.9928**	**.00006**
Stddev	.02021	.00067	.00010	.0002	.00005
%RSD	181.07	944.63	556.91	.0217	95.043
#1	.00313	-.00040	.00009	.9930	.00010
#2	-.02545	.00054	-.00006	.9927	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 14:16:28 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00016**	**-.00015**	**-.00110**	**1.001**
Stddev	.00154	.00028	.00043	.000
%RSD	959.40	184.30	39.145	.0100
#1	.00093	.00005	-.00080	1.001
#2	-.00125	-.00035	-.00140	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3138.5**	**2511.6**	**24631.**	**3605.1**
Stddev	7.7	5.4	49.	9.6
%RSD	.24418	.21497	.19759	.26626
#1	3144.0	2515.4	24597.	3611.9
#2	3133.1	2507.8	24666.	3598.3

Sample Name: CCVL-7028546 Acquired: 6/15/2022 14:20:26 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00617**	**.19323**	**.01513**	**.02009**	**.00212**
Stddev	.00026	.00086	.00212	.00032	.00000
%RSD	4.2421	.44562	14.014	1.5911	.23142
#1	.00635	.19384	.01363	.02032	.00212
#2	.00598	.19262	.01663	.01987	.00213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00192**	**.49045**	**.00193**	**-.0018**	**.00364**
Stddev	.00001	.00301	.00005	.0495	.00002
%RSD	.33327	.61325	2.7448	2770.	.59517
#1	.00193	.48833	.00197	.0332	.00365
#2	.00192	.49258	.00190	-.0368	.00362
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00448**	**.01156**	**.04599**	**.44342**	**.02566**
Stddev	.00001	.00041	.00054	.00681	.00023
%RSD	.27229	3.5074	1.1706	1.5362	.89865
#1	.00449	.01127	.04637	.44824	.02582
#2	.00447	.01185	.04561	.43861	.02550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/15/2022 14:20:26 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19526**	**.00321**	**.01033**	**.92672**	**.00943**
Stddev	.00305	.00003	.00017	.01380	.00033
%RSD	1.5625	.84164	1.6652	1.4896	3.5486
#1	.19310	.00319	.01046	.93648	.00967
#2	.19742	.00323	.01021	.91696	.00919
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00861**	**.19310**	**.02041**	**.02237**
Stddev	.00	.00089	.00113	.00030	.00142
%RSD	.0054	10.389	.58321	1.4477	6.3668
#1	25.00	.00798	.19230	.02062	.02136
#2	25.00	.00924	.19389	.02020	.02337
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46280**	**.00932**	**.00502**	F **.9973**	**.00475**
Stddev	.00183	.00039	.00009	.0039	.00003
%RSD	.39462	4.1496	1.8252	.3941	.66583
#1	.46151	.00959	.00509	1.000	.00477
#2	.46409	.00904	.00496	.9945	.00472
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/15/2022 14:20:26 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01929**	**.00489**	**.01072**	F **1.002**
Stddev	.00108	.00030	.00015	.001
%RSD	5.6009	6.1688	1.3795	.0489
#1	.02006	.00468	.01082	1.001
#2	.01853	.00510	.01061	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3154.3**	**2525.2**	**24783.**	**3545.1**
Stddev	5.6	2.2	11.	6.8
%RSD	.17800	.08576	.04468	.19126
#1	3158.3	2526.8	24775.	3540.3
#2	3150.4	2523.7	24791.	3549.9

Sample Name: 480-198954-B-1-C MSD Acquired: 6/15/2022 14:24:21 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04880**	**9.6151**	**.21410**	**.23746**	**.27346**
Stddev	.00160	.0440	.00066	.00149	.00149
%RSD	3.2829	.45721	.30928	.62890	.54360
#1	.04767	9.5840	.21364	.23641	.27241
#2	.04994	9.6462	.21457	.23852	.27451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21199**	**132.84**	**.20838**	**.0018**	**.20248**
Stddev	.00060	.15	.00105	.0128	.00056
%RSD	.28288	.11360	.50606	716.2	.27770
#1	.21157	132.74	.20764	-.0072	.20208
#2	.21242	132.95	.20913	.0108	.20287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21086**	**.20918**	**10.125**	**11.868**	**.19252**
Stddev	.00052	.00178	.033	.008	.00095
%RSD	.24660	.85197	.32530	.06506	.49519
#1	.21123	.20792	10.102	11.873	.19185
#2	.21049	.21044	10.149	11.862	.19320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198954-B-1-C MSD Acquired: 6/15/2022 14:24:21 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**68.821**	**.44958**	**.21745**	**17.606**	**.19960**
Stddev	.260	.00058	.00170	.024	.00079
%RSD	.37771	.12995	.78281	.13387	.39646
#1	68.637	.44917	.21624	17.589	.19904
#2	69.005	.45000	.21865	17.623	.20016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.74**	**.20187**	**23.159**	**.21921**	**.21295**
Stddev	.00	.00095	.105	.00229	.00338
%RSD	.0028	.46859	.45427	1.0460	1.5848
#1	24.74	.20254	23.084	.21759	.21057
#2	24.74	.20120	23.233	.22083	.21534
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.367**	**.24279**	**.35686**	**1.004**	**.20974**
Stddev	.043	.00125	.00042	.005	.00004
%RSD	.32022	.51393	.11887	.5467	.01673
#1	13.397	.24191	.35656	1.008	.20977
#2	13.337	.24367	.35716	1.001	.20972
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198954-B-1-C MSD Acquired: 6/15/2022 14:24:21 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20913**	**.20956**	**.19955**	**1.002**
Stddev	.00072	.00055	.00002	.000
%RSD	.34527	.26013	.00979	.0268
#1	.20964	.20918	.19954	1.003
#2	.20862	.20995	.19957	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2733.3**	**2379.3**	**23080.**	**3529.4**
Stddev	6.9	10.4	73.	2.3
%RSD	.25101	.43874	.31513	.06434
#1	2738.2	2386.7	23132.	3531.0
#2	2728.5	2371.9	23029.	3527.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.341%	92.679%	91.706%	98.491%
Range				

Sample Name: 480-198730-A-1-A Acquired: 6/15/2022 14:28:03 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**.32010**	**.00293**	**.07767**	**.03452**
Stddev	.00036	.00116	.00072	.00015	.00004
%RSD	54.284	.36288	24.594	.19360	.12885
#1	.00041	.31928	.00242	.07778	.03449
#2	.00092	.32093	.00344	.07757	.03456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**71.113**	**.00037**	**.0638**	**.00048**
Stddev	.00006	.350	.00006	.0208	.00000
%RSD	88.590	.49195	17.668	32.52	.53532
#1	-.00010	70.866	.00041	.0492	.00048
#2	-.00002	71.360	.00032	.0785	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00105**	**.00269**	**.35028**	**3.1583**	**.00145**
Stddev	.00018	.00011	.00114	.0345	.00101
%RSD	17.474	4.1600	.32624	1.0923	69.526
#1	.00092	.00277	.34948	3.1827	.00216
#2	.00118	.00261	.35109	3.1339	.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198730-A-1-A Acquired: 6/15/2022 14:28:03 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.019**	**.06256**	**.00783**	**30.203**	**.00165**
Stddev	.063	.00000	.00020	.133	.00007
%RSD	.17483	.00458	2.5461	.43948	4.0450
#1	36.064	.06256	.00769	30.109	.00160
#2	35.975	.06255	.00797	30.297	.00169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**-.00027**	**17.189**	**-.00017**	**.00049**
Stddev	.00	.00017	.016	.00130	.00293
%RSD	.0041	64.823	.09358	768.91	599.69
#1	25.04	-.00014	17.177	-.00109	.00256
#2	25.04	-.00039	17.200	.00075	-.00158
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5850**	**-.00046**	**.25702**	**1.003**	**.00818**
Stddev	.0238	.00015	.00091	.010	.00013
%RSD	.91980	32.684	.35358	.9999	1.5309
#1	2.5682	-.00035	.25637	1.010	.00809
#2	2.6019	-.00056	.25766	.9961	.00826
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198730-A-1-A Acquired: 6/15/2022 14:28:03 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00107**	**.00083**	**.00140**	**1.001**
Stddev	.00002	.00010	.00025	.001
%RSD	1.8772	11.614	17.725	.1359
#1	-.00108	.00090	.00157	1.000
#2	-.00105	.00076	.00122	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2831.2**	**2403.9**	**23409.**	**3487.5**
Stddev	2.1	2.4	69.	35.4
%RSD	.07264	.10040	.29298	1.0154
#1	2829.7	2402.2	23458.	3512.5
#2	2832.6	2405.6	23361.	3462.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.396%	93.638%	93.013%	97.323%
Range				

Sample Name: 480-198730-A-2-A Acquired: 6/15/2022 14:31:56 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**1.5616**	**.00134**	**.09880**	**.03511**
Stddev	.00070	.0055	.00048	.00056	.00010
%RSD	90.649	.35306	35.661	.57155	.27625
#1	-.00126	1.5655	.00101	.09840	.03504
#2	-.00028	1.5577	.00168	.09920	.03517
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**65.055**	**.00034**	**.0654**	**.00079**
Stddev	.00003	.382	.00000	.0145	.00007
%RSD	38.850	.58654	.10561	22.23	8.6767
#1	-.00005	64.785	.00034	.0757	.00084
#2	-.00009	65.325	.00034	.0552	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00380**	**.00279**	**1.3262**	**4.4873**	**.00261**
Stddev	.00007	.00091	.0086	.0312	.00056
%RSD	1.9025	32.742	.64579	.69609	21.308
#1	.00375	.00343	1.3202	4.4652	.00300
#2	.00385	.00214	1.3323	4.5093	.00221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198730-A-2-A Acquired: 6/15/2022 14:31:56 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.955**	**.05274**	**.00904**	**28.347**	**.00250**
Stddev	.135	.00030	.00007	.200	.00039
%RSD	.39877	.56858	.82127	.70461	15.705
#1	34.050	.05296	.00899	28.206	.00278
#2	33.859	.05253	.00910	28.489	.00222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.13**	**.00089**	**9.8985**	**-.00183**	**-.00042**
Stddev	.00	.00019	.0041	.00005	.00006
%RSD	.0041	21.856	.04118	2.8321	14.771
#1	25.13	.00075	9.8957	-.00187	-.00046
#2	25.13	.00102	9.9014	-.00179	-.00038
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.3270**	**.00023**	**.18001**	**1.003**	**.03332**
Stddev	.0800	.00024	.00120	.004	.00012
%RSD	1.0926	103.48	.66772	.4043	.36592
#1	7.2704	.00006	.17916	1.000	.03323
#2	7.3836	.00040	.18086	1.006	.03340
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198730-A-2-A Acquired: 6/15/2022 14:31:56 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.00327**	**.00560**	**1.001**
Stddev	.00078	.00005	.00036	.000
%RSD	232.98	1.4605	6.3870	.0296
#1	.00022	.00323	.00535	1.001
#2	-.00089	.00330	.00586	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2833.3**	**2419.9**	**23400.**	**3513.3**
Stddev	1.9	2.6	30.	12.6
%RSD	.06557	.10592	.12800	.35741
#1	2834.7	2421.7	23379.	3522.1
#2	2832.0	2418.0	23422.	3504.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.464%	94.259%	92.977%	98.041%
Range				

Sample Name: 480-198654-C-1-A Acquired: 6/15/2022 14:35:47 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00085**	**.25706**	**.25575**	**13.451**	**.22956**
Stddev	.00136	.00595	.00001	.010	.00024
%RSD	159.83	2.3143	.00463	.07345	.10376
#1	-.00181	.26127	.25576	13.444	.22939
#2	.00011	.25285	.25574	13.458	.22973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**31.957**	**.00060**	**.0179**	**.06612**
Stddev	.00003	.029	.00011	.0016	.00007
%RSD	119.69	.08967	18.738	9.125	.10870
#1	-.00005	31.937	.00052	.0167	.06607
#2	-.00000	31.977	.00068	.0190	.06617
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96989**	**.01000**	**4.7089**	F **807.63**	**.56977**
Stddev	.00006	.00007	.0084	3.22	.00130
%RSD	.00633	.67707	.17788	.39863	.22758
#1	.96993	.01005	4.7149	805.35	.56885
#2	.96984	.00995	4.7030	809.90	.57069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-198654-C-1-A Acquired: 6/15/2022 14:35:47 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**89.431**	**.02528**	**.05195**	F **4031.7**	**.29840**
Stddev	.047	.00012	.00012	3.6	.00031
%RSD	.05201	.48051	.22588	.08952	.10519
#1	89.464	.02520	.05203	4029.2	.29818
#2	89.398	.02537	.05186	4034.3	.29862
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.60**	**.00313**	F **114.17**	**.00993**	**.00587**
Stddev	.01	.00108	.08	.00115	.00441
%RSD	.0276	34.512	.06647	11.610	75.085
#1	36.61	.00389	114.22	.00911	.00275
#2	36.59	.00236	114.11	.01074	.00899
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.009**	**.13090**	**1.0470**	**1.009**	**.54820**
Stddev	.012	.00104	.0020	.001	.00073
%RSD	.09655	.79090	.18968	.0844	.13312
#1	12.000	.13017	1.0456	1.010	.54768
#2	12.017	.13163	1.0484	1.008	.54871
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198654-C-1-A Acquired: 6/15/2022 14:35:47 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00287**	**.09738**	**.08274**	**1.097**
Stddev	.00211	.00031	.00032	.002
%RSD	73.572	.31886	.38460	.1737
#1	-.00138	.09760	.08252	1.095
#2	-.00436	.09716	.08297	1.098
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2045.5**	**2019.2**	**18412.**	**3300.1**
Stddev	5.0	2.7	32.	6.3
%RSD	.24617	.13127	.17404	.19065
#1	2049.1	2021.1	18389.	3295.7
#2	2041.9	2017.3	18434.	3304.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	63.866%	78.652%	73.156%	92.094%
Range				

Sample Name: 480-198655-C-1-A Acquired: 6/15/2022 14:39:45 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.79145**	**.17388**	**12.754**	**.23031**
Stddev	.00067	.01226	.00188	.009	.00056
%RSD	1140.7	1.5493	1.0816	.07349	.24249
#1	-.00053	.78278	.17255	12.760	.22991
#2	.00041	.80012	.17521	12.747	.23070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**80.201**	**.00075**	**.0089**	**.05667**
Stddev	.00001	.103	.00004	.0210	.00006
%RSD	60.333	.12880	5.3983	235.9	.10899
#1	.00003	80.274	.00077	-.0060	.05671
#2	.00001	80.128	.00072	.0238	.05662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.85751**	**.01003**	**4.5242**	F **750.06**	**.47756**
Stddev	.00321	.00026	.0192	6.14	.00138
%RSD	.37479	2.6027	.42346	.81875	.28913
#1	.85523	.00985	4.5377	745.72	.47659
#2	.85978	.01022	4.5106	754.40	.47854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-198655-C-1-A Acquired: 6/15/2022 14:39:45 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**165.06**	**.12281**	**.03981**	F **3075.4**	**.32704**
Stddev	.67	.00034	.00044	8.1	.00005
%RSD	.40687	.27990	1.1072	.26294	.01498
#1	164.58	.12257	.04012	3081.1	.32708
#2	165.53	.12306	.03949	3069.7	.32701
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.90**	**.00735**	**88.219**	**.01589**	**.00304**
Stddev	.00	.00003	.080	.00011	.00146
%RSD	.0102	.37156	.09036	.69419	48.024
#1	32.90	.00737	88.276	.01597	.00407
#2	32.90	.00733	88.163	.01582	.00201
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.472**	**.08940**	**1.2278**	**.9994**	**.40679**
Stddev	.022	.00038	.0034	.0001	.00196
%RSD	.16699	.42159	.27924	.0094	.48164
#1	13.457	.08914	1.2302	.9994	.40541
#2	13.488	.08967	1.2254	.9993	.40818
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198655-C-1-A Acquired: 6/15/2022 14:39:45 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00116**	**.08448**	**.13835**	**1.067**
Stddev	.00244	.00034	.00321	.001
%RSD	210.48	.39936	2.3174	.0450
#1	-.00288	.08472	.13609	1.067
#2	.00057	.08424	.14062	1.067
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2081.5**	**2037.8**	**18952.**	**3315.9**
Stddev	3.3	4.1	77.	7.8
%RSD	.15699	.20064	.40579	.23430
#1	2083.8	2040.7	19006.	3321.4
#2	2079.2	2034.9	18897.	3310.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	64.990%	79.378%	75.301%	92.533%
Range				

Sample Name: 480-198771-C-1-A Acquired: 6/15/2022 14:43:42 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00143**	**.39773**	**.02903**	**3.8509**	**.90994**
Stddev	.00064	.00955	.00266	.0140	.00151
%RSD	44.597	2.3999	9.1740	.36361	.16607
#1	-.00188	.39098	.02715	3.8608	.90887
#2	-.00098	.40448	.03092	3.8410	.91101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**269.30**	**.00045**	**-.0319**	**.02806**
Stddev	.00004	.59	.00001	.0007	.00015
%RSD	44.337	.21832	1.5583	2.233	.52181
#1	-.00007	269.71	.00046	-.0324	.02816
#2	-.00013	268.88	.00045	-.0314	.02795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07498**	**.05229**	**36.457**	**157.32**	**.08671**
Stddev	.00010	.00036	.043	.33	.00061
%RSD	.13015	.68436	.11833	.20787	.70256
#1	.07491	.05204	36.488	157.09	.08628
#2	.07505	.05254	36.427	157.55	.08714
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198771-C-1-A Acquired: 6/15/2022 14:43:42 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**196.83**	**1.7960**	**.00747**	**788.22**	**.57391**
Stddev	.51	.0018	.00011	.00	.00188
%RSD	.25893	.10028	1.4776	.00014	.32770
#1	196.47	1.7973	.00740	788.23	.57524
#2	197.19	1.7947	.00755	788.22	.57258
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.68**	**.01259**	**59.173**	**.01931**	**.00298**
Stddev	.00	.00090	.208	.00020	.00240
%RSD	.0179	7.1359	.35197	1.0561	80.359
#1	26.68	.01323	59.320	.01945	.00129
#2	26.67	.01196	59.026	.01916	.00468
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.106**	**.00791**	**1.3810**	**1.016**	**.01721**
Stddev	.068	.00039	.0002	.003	.00063
%RSD	.47944	4.9214	.01210	.2928	3.6691
#1	14.153	.00818	1.3811	1.018	.01677
#2	14.058	.00763	1.3809	1.014	.01766
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198771-C-1-A Acquired: 6/15/2022 14:43:42 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00347**	**.00608**	**.95501**	**1.004**
Stddev	.00127	.00069	.00265	.002
%RSD	36.693	11.363	.27727	.1696
#1	-.00437	.00657	.95314	1.003
#2	-.00257	.00559	.95689	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2328.2**	**2186.4**	**20746.**	**3385.5**
Stddev	2.2	6.9	60.	.4
%RSD	.09274	.31532	.29138	.01311
#1	2326.7	2181.6	20788.	3385.2
#2	2329.7	2191.3	20703.	3385.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	72.692%	85.166%	82.429%	94.475%
Range				

Sample Name: 480-198777-C-1-A Acquired: 6/15/2022 14:47:44 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00176**	**1.2484**	**.06243**	**17.685**	**.06472**
Stddev	.00021	.0047	.00282	.010	.00003
%RSD	11.838	.37890	4.5201	.05376	.05172
#1	-.00191	1.2518	.06442	17.692	.06474
#2	-.00161	1.2451	.06043	17.679	.06469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	F **1134.9**	**-.00007**	**-.0634**	**.05799**
Stddev	.00003	9.1	.00010	.0335	.00020
%RSD	14.110	.80194	144.54	52.83	.34961
#1	-.00020	1141.3	-.00013	-.0871	.05813
#2	-.00016	1128.4	.00000	-.0397	.05785
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.23610**	**.03633**	**34.732**	F **743.59**	**.72105**
Stddev	.00069	.00105	.267	3.47	.00323
%RSD	.29389	2.8918	.76786	.46693	.44849
#1	.23659	.03707	34.920	746.04	.72334
#2	.23561	.03558	34.543	741.13	.71876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-198777-C-1-A Acquired: 6/15/2022 14:47:44 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **540.76**	**9.3207**	**.03894**	F **2353.7**	**2.0028**
Stddev	4.35	.0142	.00036	12.9	.0057
%RSD	.80503	.15273	.93321	.54950	.28729
#1	543.84	9.3107	.03919	2362.9	2.0069
#2	537.69	9.3308	.03868	2344.6	1.9988
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	450.00			900.00	
Low Limit	-.20000			-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.26**	**.01219**	**84.764**	**.05133**	**.00516**
Stddev	.04	.00056	.184	.00124	.00466
%RSD	.0977	4.5528	.21765	2.4128	90.401
#1	37.28	.01180	84.894	.05221	.00186
#2	37.23	.01258	84.633	.05046	.00846
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.214**	**.01189**	**3.4956**	**1.015**	**.09913**
Stddev	.104	.00057	.0201	.003	.00089
%RSD	.56845	4.7957	.57415	.3077	.89410
#1	18.287	.01149	3.5098	1.018	.09850
#2	18.141	.01229	3.4814	1.013	.09975
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198777-C-1-A Acquired: 6/15/2022 14:47:44 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00418**	**.05781**	**1.2340**	**1.002**
Stddev	.00012	.00133	.0031	.001
%RSD	2.9257	2.3039	.25032	.0626
#1	-.00427	.05875	1.2362	1.002
#2	-.00409	.05687	1.2318	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1931.8**	**1911.1**	**18153.**	**3212.1**
Stddev	.4	.2	8.	21.3
%RSD	.02157	.01077	.04666	.66286
#1	1931.5	1911.3	18147.	3197.1
#2	1932.1	1911.0	18159.	3227.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	60.316%	74.442%	72.127%	89.637%
Range				

Sample Name: 480-198777-C-2-A Acquired: 6/15/2022 14:51:58 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00124**	**.44738**	**.01991**	**6.9481**	**.12416**
Stddev	.00070	.03344	.00368	.0245	.00063
%RSD	56.318	7.4748	18.503	.35311	.50851
#1	-.00173	.42373	.02251	6.9307	.12460
#2	-.00075	.47103	.01730	6.9654	.12371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**703.23**	**.00034**	**-.0079**	**.01099**
Stddev	.00004	1.27	.00007	.0196	.00020
%RSD	42.782	.18130	19.688	246.2	1.8432
#1	-.00011	702.33	.00039	.0059	.01085
#2	-.00006	704.13	.00029	-.0218	.01113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12593**	**.04370**	**3.6714**	**265.27**	**.30746**
Stddev	.00031	.00055	.0130	1.15	.00008
%RSD	.24749	1.2660	.35301	.43286	.02723
#1	.12615	.04410	3.6622	264.46	.30740
#2	.12571	.04331	3.6805	266.09	.30752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198777-C-2-A Acquired: 6/15/2022 14:51:58 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**379.32**	**3.7856**	**.00462**	F **1090.4**	**.23645**
Stddev	.79	.0155	.00013	3.2	.00050
%RSD	.20713	.40982	2.7088	.29690	.21309
#1	379.88	3.7966	.00454	1088.1	.23681
#2	378.76	3.7747	.00471	1092.6	.23609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.71**	**.01068**	**63.432**	**.02574**	**.00042**
Stddev	.00	.00164	.266	.00286	.00473
%RSD	.0156	15.348	.41930	11.110	1117.7
#1	27.71	.01183	63.244	.02776	-.00292
#2	27.71	.00952	63.620	.02371	.00377
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.823**	**.00182**	**2.6284**	**.9933**	**.04549**
Stddev	.226	.00037	.0055	.0009	.00056
%RSD	1.6367	20.397	.21050	.0883	1.2397
#1	13.983	.00155	2.6245	.9940	.04588
#2	13.663	.00208	2.6323	.9927	.04509
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198777-C-2-A Acquired: 6/15/2022 14:51:58 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00410**	**.02799**	**.42975**	**1.010**
Stddev	.00072	.00040	.00060	.000
%RSD	17.456	1.4244	.13876	.0138
#1	-.00460	.02827	.43017	1.010
#2	-.00359	.02771	.42933	1.011
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2162.1**	**2063.0**	**19763.**	**3312.9**
Stddev	2.5	3.8	43.	20.0
%RSD	.11676	.18506	.21921	.60371
#1	2160.3	2065.7	19732.	3327.1
#2	2163.9	2060.3	19793.	3298.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	67.505%	80.357%	78.523%	92.451%
Range				

Sample Name: 480-198900-C-1-A Acquired: 6/15/2022 14:56:03 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.44037**	**.00700**	**6.4900**	**.55682**
Stddev	.00014	.00579	.00145	.0056	.00098
%RSD	1635.4	1.3153	20.761	.08668	.17566
#1	-.00011	.44446	.00803	6.4861	.55751
#2	.00009	.43627	.00597	6.4940	.55613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**45.769**	**.00076**	**.0095**	**.00610**
Stddev	.00012	.252	.00001	.0148	.00007
%RSD	515.83	.55101	1.0047	156.4	1.0940
#1	.00006	45.590	.00075	-.0010	.00605
#2	-.00011	45.947	.00076	.0200	.00615
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00755**	**.02071**	**3.6403**	**39.711**	**.27268**
Stddev	.00044	.00059	.0124	.157	.00168
%RSD	5.8183	2.8660	.34124	.39460	.61438
#1	.00724	.02029	3.6315	39.600	.27149
#2	.00786	.02113	3.6491	39.822	.27386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198900-C-1-A Acquired: 6/15/2022 14:56:03 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**87.833**	**.02125**	**.10112**	**482.29**	**.13447**
Stddev	.041	.00003	.00028	2.24	.00020
%RSD	.04681	.15703	.27936	.46506	.15056
#1	87.862	.02127	.10132	480.70	.13461
#2	87.804	.02122	.10092	483.88	.13432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.21**	**.01828**	**4.5922**	**.00322**	**-.00233**
Stddev	.00	.00182	.0070	.00104	.00400
%RSD	.0036	9.9506	.15313	32.223	172.14
#1	25.21	.01699	4.5872	.00249	-.00516
#2	25.21	.01957	4.5971	.00396	.00051
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.210**	**.01309**	**.40925**	**1.006**	**.01310**
Stddev	.014	.00076	.00253	.000	.00018
%RSD	.14055	5.7925	.61851	.0424	1.3787
#1	10.200	.01256	.40746	1.006	.01323
#2	10.220	.01363	.41104	1.005	.01298
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198900-C-1-A Acquired: 6/15/2022 14:56:03 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00407**	**.00178**	**12.622**	**1.001**
Stddev	.00066	.00084	.001	.001
%RSD	16.303	47.225	.00759	.0960
#1	-.00360	.00119	12.623	1.001
#2	-.00453	.00238	12.622	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2528.6**	**2295.4**	**22017.**	**3454.3**
Stddev	.7	5.1	2.	16.9
%RSD	.02712	.22419	.01101	.48970
#1	2528.1	2299.1	22016.	3466.3
#2	2529.1	2291.8	22019.	3442.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.949%	89.412%	87.483%	96.396%
Range				

Sample Name: CCV-7032336 Acquired: 6/15/2022 14:59:59 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0009**	**49.416**	**1.0166**	**1.0834**	**1.0186**
Stddev	.0016	.011	.0057	.0012	.0047
%RSD	.16195	.02299	.55898	.11220	.45910
#1	1.0021	49.408	1.0126	1.0842	1.0153
#2	.99979	49.424	1.0207	1.0825	1.0220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0066**	**49.234**	**1.0134**	**1.015**	**.99147**
Stddev	.0034	.178	.0010	.009	.00165
%RSD	.33856	.36118	.09874	.9359	.16634
#1	1.0042	49.108	1.0141	1.009	.99264
#2	1.0090	49.360	1.0127	1.022	.99031
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0440**	**1.0033**	**49.641**	**49.975**	**.99517**
Stddev	.0013	.0040	.243	.122	.00382
%RSD	.12537	.39400	.48913	.24432	.38397
#1	1.0430	1.0061	49.469	49.889	.99247
#2	1.0449	1.0005	49.812	50.062	.99787
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 14:59:59 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.808**	**1.0296**	**1.0397**	**50.145**	**1.0026**
Stddev	.033	.0006	.0002	.143	.0013
%RSD	.06427	.06217	.01693	.28597	.12775
#1	50.785	1.0301	1.0396	50.044	1.0035
#2	50.832	1.0292	1.0398	50.246	1.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.67**	**.98767**	**24.994**	**1.0160**	**1.0372**
Stddev	.00	.00298	.007	.0006	.0007
%RSD	.0074	.30126	.02893	.05891	.06630
#1	37.67	.98977	24.989	1.0156	1.0377
#2	37.66	.98556	24.999	1.0164	1.0367
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8968**	**.98024**	**1.0084**	**1.503**	**1.0054**
Stddev	.0284	.00102	.0039	.003	.0003
%RSD	.28657	.10391	.38231	.2059	.02625
#1	9.8767	.98096	1.0056	1.505	1.0052
#2	9.9168	.97952	1.0111	1.500	1.0056
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 14:59:59 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0328**	**1.0388**	**1.0069**	**1.513**
Stddev	.0020	.0009	.0001	.000
%RSD	.19457	.08515	.01085	.0022
#1	1.0343	1.0382	1.0068	1.513
#2	1.0314	1.0395	1.0070	1.513
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2680.9**	**2391.7**	**22763.**	**3419.1**
Stddev	6.5	4.9	12.	14.3
%RSD	.24145	.20453	.05359	.41802
#1	2676.3	2388.3	22754.	3429.2
#2	2685.4	2395.2	22772.	3409.0

Sample Name: CCB-7026764 Acquired: 6/15/2022 15:03:41 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00236**	**-.00092**	F **.02123**	**.00002**
Stddev	.00074	.01961	.00046	.00040	.00002
%RSD	414.06	831.68	49.622	1.8973	84.705
#1	-.00070	-.01622	-.00060	.02151	.00001
#2	.00034	.01151	-.00125	.02094	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.02000	
Low Limit				-.02000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.02232**	**-.00012**	**.0172**	**-.00007**
Stddev	.00016	.01169	.00014	.0620	.00013
%RSD	70.086	52.348	119.52	360.5	190.05
#1	.00033	.03059	-.00002	-.0266	.00002
#2	.00011	.01406	-.00022	.0610	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00211**	**.00807**	**.13946**	**.00008**
Stddev	.00009	.00010	.01043	.01285	.00064
%RSD	119.60	4.8728	129.15	9.2122	827.11
#1	-.00015	.00218	.01544	.13037	-.00037
#2	-.00001	.00204	.00070	.14854	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 15:03:41 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00424**	**.00000**	**.00028**	**.10287**	**.00022**
Stddev	.00182	.00004	.00013	.02283	.00008
%RSD	42.884	1519.0	47.002	22.193	38.595
#1	.00553	-.00002	.00019	.11901	.00028
#2	.00296	.00003	.00037	.08673	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00061**	**.01410**	**.00015**	**-.00088**
Stddev	.00	.00030	.00172	.00120	.00016
%RSD	.0037	48.792	12.227	819.29	18.139
#1	25.02	-.00040	.01532	-.00070	-.00077
#2	25.02	-.00082	.01288	.00099	-.00100
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00702**	**.00043**	**.00030**	**.9958**	**.00019**
Stddev	.02155	.00034	.00019	.0055	.00022
%RSD	307.07	79.577	64.376	.5477	114.51
#1	-.00822	.00068	.00043	.9919	.00034
#2	.02225	.00019	.00016	.9997	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 15:03:41 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00092**	**-.00011**	**-.00164**	**1.000**
Stddev	.00089	.00012	.00016	.002
%RSD	96.347	106.75	9.5448	.1856
#1	.00155	-.00020	-.00153	1.002
#2	.00029	-.00003	-.00175	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3166.8**	**2533.9**	**25001.**	**3626.9**
Stddev	12.0	9.6	57.	8.0
%RSD	.37756	.37726	.22993	.21947
#1	3175.2	2540.6	24960.	3632.5
#2	3158.3	2527.1	25042.	3621.2

Sample Name: CCVL-7028546 Acquired: 6/15/2022 15:07:37 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00560**	**.17412**	**.01445**	F **.03496**	**.00212**
Stddev	.00105	.00325	.00000	.00016	.00001
%RSD	18.757	1.8638	.02508	.45393	.26925
#1	.00485	.17182	.01446	.03485	.00213
#2	.00634	.17641	.01445	.03507	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00201**	**.49546**	**.00173**	**.0357**	**.00360**
Stddev	.00004	.00179	.00009	.0296	.00000
%RSD	1.9443	.36033	5.1896	82.78	.13057
#1	.00204	.49420	.00179	.0148	.00361
#2	.00198	.49672	.00167	.0567	.00360
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00415**	**.01203**	**.04536**	**.58313**	**.02759**
Stddev	.00006	.00042	.00009	.00215	.00082
%RSD	1.4213	3.5174	.18874	.36795	2.9858
#1	.00410	.01233	.04530	.58465	.02701
#2	.00419	.01173	.04542	.58162	.02817
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/15/2022 15:07:37 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19997**	**.00329**	**.01044**	**1.0169**	**.00929**
Stddev	.00565	.00006	.00012	.0123	.00022
%RSD	2.8261	1.9631	1.1177	1.2085	2.4097
#1	.20397	.00334	.01052	1.0082	.00913
#2	.19597	.00325	.01036	1.0256	.00944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00873**	**.19844**	**.02082**	**.02280**
Stddev	.00	.00046	.00057	.00160	.00189
%RSD	.0017	5.2238	.28686	7.6755	8.2709
#1	25.00	.00905	.19804	.01969	.02413
#2	25.00	.00840	.19885	.02195	.02147
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45711**	**.00897**	**.00504**	F **.9953**	**.00449**
Stddev	.00417	.00057	.00005	.0023	.00017
%RSD	.91323	6.3579	1.0256	.2262	3.8032
#1	.45416	.00937	.00508	.9937	.00461
#2	.46006	.00856	.00501	.9969	.00437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/15/2022 15:07:37 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02010**	**.00466**	**.01036**	F **1.000**
Stddev	.00027	.00002	.00030	.000
%RSD	1.3417	.51877	2.9221	.0391
#1	.02029	.00464	.01014	1.001
#2	.01991	.00468	.01057	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3172.4**	**2537.7**	**24846.**	**3566.8**
Stddev	8.3	10.8	65.	27.6
%RSD	.26293	.42498	.26242	.77275
#1	3178.3	2545.4	24800.	3586.3
#2	3166.5	2530.1	24892.	3547.3

Sample Name: 480-198900-C-2-A Acquired: 6/15/2022 15:11:33 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.21979**	**.00517**	**12.063**	**.38574**
Stddev	.00062	.00972	.00006	.009	.00114
%RSD	151.16	4.4205	1.1124	.07434	.29536
#1	-.00085	.21292	.00521	12.070	.38494
#2	.00003	.22666	.00512	12.057	.38655
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**110.60**	**.00053**	**.0086**	**.01068**
Stddev	.00010	.21	.00003	.0213	.00001
%RSD	14376.	.19266	5.3487	247.9	.10351
#1	-.00007	110.45	.00051	-.0065	.01067
#2	.00007	110.75	.00055	.0236	.01068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01170**	**.01667**	**19.676**	**52.601**	**.36388**
Stddev	.00001	.00116	.081	.010	.00093
%RSD	.04633	6.9458	.41412	.01925	.25581
#1	.01170	.01749	19.619	52.594	.36322
#2	.01169	.01585	19.734	52.608	.36453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198900-C-2-A Acquired: 6/15/2022 15:11:33 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**133.35**	**.11525**	**.00438**	**363.50**	**.12553**
Stddev	.33	.00004	.00006	.59	.00064
%RSD	.25042	.03311	1.3590	.16151	.50667
#1	133.12	.11522	.00442	363.08	.12508
#2	133.59	.11528	.00434	363.91	.12598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.18**	**.01556**	**6.0946**	**.00523**	**.00108**
Stddev	.00	.00001	.0020	.00032	.00065
%RSD	.0002	.07538	.03227	6.0553	60.070
#1	25.18	.01555	6.0960	.00501	.00062
#2	25.18	.01557	6.0932	.00546	.00154
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5318**	**.00583**	**.52782**	**1.005**	**.00950**
Stddev	.0010	.00083	.00009	.004	.00000
%RSD	.01050	14.296	.01611	.3717	.03249
#1	9.5311	.00642	.52776	1.002	.00950
#2	9.5325	.00524	.52788	1.007	.00950
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198900-C-2-A Acquired: 6/15/2022 15:11:33 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.01081**	**-.00032**	F **43.739**	**1.001**
Stddev	.00076	.00013	.004	.001
%RSD	7.0361	41.621	.00907	.1210
#1	-.01027	-.00042	43.742	1.001
#2	-.01135	-.00023	43.736	1.002
Check ?	Chk Pass	Chk Pass	Chk Fail	None
High Limit			18.000	
Low Limit			-.01000	
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2509.7**	**2278.6**	**21939.**	**3496.1**
Stddev	1.4	1.0	43.	12.7
%RSD	.05654	.04190	.19680	.36322
#1	2510.7	2279.3	21969.	3505.1
#2	2508.7	2277.9	21908.	3487.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.358%	88.756%	87.170%	97.563%
Range				

Sample Name: 480-198900-C-3-A Acquired: 6/15/2022 15:15:27 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00061**	**.17673**	**.00233**	**12.263**	**.14927**
Stddev	.00041	.01543	.00050	.011	.00033
%RSD	67.410	8.7308	21.364	.09187	.22326
#1	-.00032	.16581	.00198	12.255	.14903
#2	-.00090	.18764	.00268	12.271	.14951
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**2.1142**	**.00047**	**.0162**	**.00820**
Stddev	.00004	.0128	.00012	.0051	.00003
%RSD	229.82	.60407	24.718	31.21	.42143
#1	.00004	2.1052	.00039	.0198	.00823
#2	-.00001	2.1233	.00055	.0127	.00818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00939**	**.00663**	**13.770**	**134.03**	**.07954**
Stddev	.00014	.00002	.048	.67	.00185
%RSD	1.4576	.31253	.35073	.50297	2.3223
#1	.00930	.00665	13.736	133.55	.08085
#2	.00949	.00662	13.804	134.51	.07823
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198900-C-3-A Acquired: 6/15/2022 15:15:27 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**113.19**	**.05003**	**.00921**	F **1085.6**	**.12195**
Stddev	.08	.00013	.00032	5.7	.00018
%RSD	.07023	.26803	3.4637	.52224	.15102
#1	113.13	.04994	.00943	1081.6	.12208
#2	113.25	.05013	.00898	1089.6	.12182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.14**	**.00330**	**8.5536**	**.00253**	**.00003**
Stddev	.00	.00170	.0029	.00094	.00080
%RSD	.0045	51.499	.03427	37.293	2956.3
#1	25.14	.00210	8.5557	.00186	-.00054
#2	25.14	.00450	8.5515	.00320	.00059
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.417**	**.00305**	**.21225**	**1.005**	**.00792**
Stddev	.036	.00059	.00126	.001	.00007
%RSD	.34176	19.339	.59572	.1425	.87796
#1	10.392	.00263	.21135	1.004	.00787
#2	10.443	.00347	.21314	1.006	.00797
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198900-C-3-A Acquired: 6/15/2022 15:15:27 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00213**	**-.00055**	**.13004**	**1.004**
Stddev	.00021	.00016	.00050	.000
%RSD	9.7737	28.861	.38262	.0022
#1	-.00198	-.00067	.12968	1.004
#2	-.00228	-.00044	.13039	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2412.6**	**2252.9**	**21078.**	**3463.2**
Stddev	5.5	4.5	21.	17.2
%RSD	.22841	.20150	.10090	.49710
#1	2416.5	2256.1	21063.	3475.4
#2	2408.7	2249.7	21093.	3451.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.328%	87.757%	83.749%	96.645%
Range				

Sample Name: MB 480-629985/1-A Acquired: 6/15/2022 15:19:23 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.01880**	**.00026**	F **.03146**	**.00017**
Stddev	.00005	.00506	.00073	.00113	.00000
%RSD	48.012	26.935	278.64	3.6075	1.9928
#1	-.00007	-.02238	.00078	.03226	.00017
#2	-.00014	-.01522	-.00026	.03066	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.02000	
Low Limit				-.00800	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.02799**	**-.00005**	**.0255**	**-.00006**
Stddev	.00005	.00153	.00003	.0462	.00007
%RSD	903.37	5.4629	55.071	181.4	111.38
#1	.00003	.02691	-.00003	-.0072	-.00012
#2	-.00004	.02907	-.00007	.0581	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00190**	**.00125**	**.26274**	**-.00173**
Stddev	.00007	.00025	.00178	.01874	.00188
%RSD	153.48	13.253	142.58	7.1341	108.16
#1	.00000	.00208	-.00001	.24949	-.00306
#2	-.00010	.00172	.00250	.27600	-.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629985/1-A Acquired: 6/15/2022 15:19:23 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00482**	**.00009**	**.00012**	**.18467**	**.00012**
Stddev	.00031	.00008	.00009	.01292	.00010
%RSD	6.3773	97.584	81.244	6.9963	79.285
#1	.00460	.00015	.00005	.17553	.00005
#2	.00504	.00003	.00018	.19380	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00046**	**.01320**	**-.00039**	**-.00068**
Stddev	.00	.00024	.00160	.00172	.00230
%RSD	.0007	51.541	12.148	439.15	338.15
#1	25.02	-.00063	.01206	.00082	-.00231
#2	25.02	-.00029	.01433	-.00160	.00095
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00288**	**.00000**	**.00005**	**.9996**	**.00002**
Stddev	.00315	.00012	.00006	.0014	.00044
%RSD	109.32	4778.3	131.84	.1403	1799.3
#1	.00065	.00009	.00000	1.001	.00034
#2	.00511	-.00008	.00009	.9986	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629985/1-A Acquired: 6/15/2022 15:19:23 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00018**	**.00096**	**1.000**
Stddev	.00019	.00008	.00020	.001
%RSD	105.53	44.597	20.348	.0515
#1	-.00031	-.00012	.00110	.9996
#2	-.00005	-.00024	.00083	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3181.7**	**2539.4**	**25139.**	**3688.4**
Stddev	1.7	4.7	76.	16.6
%RSD	.05488	.18439	.30034	.44908
#1	3182.9	2542.7	25192.	3700.1
#2	3180.5	2536.1	25086.	3676.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.340%	98.916%	99.885%	102.93%
Range				

Sample Name: LCS 480-629985/2-A Acquired: 6/15/2022 15:23:19 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04734**	**9.5623**	**.19611**	**.22053**	**.20701**
Stddev	.00112	.0279	.00003	.00104	.00017
%RSD	2.3765	.29209	.01438	.47379	.08415
#1	.04813	9.5426	.19613	.22127	.20713
#2	.04654	9.5821	.19609	.21979	.20689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19946**	**9.4135**	**.19291**	**-.0019**	**.18943**
Stddev	.00007	.0115	.00019	.0070	.00008
%RSD	.03413	.12186	.09678	371.5	.03974
#1	.19942	9.4054	.19278	.0031	.18948
#2	.19951	9.4216	.19305	-.0068	.18938
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20099**	**.19831**	**9.6804**	**9.2640**	**.18650**
Stddev	.00110	.00055	.0123	.0140	.00248
%RSD	.54568	.27898	.12735	.15063	1.3291
#1	.20177	.19792	9.6717	9.2739	.18474
#2	.20021	.19870	9.6891	9.2541	.18825
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629985/2-A Acquired: 6/15/2022 15:23:19 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.038**	**.19957**	**.20525**	**9.3235**	**.18606**
Stddev	.028	.00048	.00015	.0055	.00001
%RSD	.27648	.23805	.07131	.05907	.00338
#1	10.057	.19990	.20536	9.3274	.18607
#2	10.018	.19923	.20515	9.3196	.18606
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.74**	**.18853**	**9.4564**	**.20073**	**.19491**
Stddev	.00	.00007	.0028	.00158	.00569
%RSD	.0038	.03660	.02954	.78949	2.9177
#1	24.74	.18848	9.4584	.19961	.19088
#2	24.74	.18858	9.4544	.20185	.19893
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2375**	**.22589**	**.19830**	**1.004**	**.19703**
Stddev	.0156	.00080	.00011	.003	.00018
%RSD	.16884	.35553	.05515	.3215	.09277
#1	9.2485	.22645	.19837	1.002	.19716
#2	9.2264	.22532	.19822	1.007	.19690
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629985/2-A Acquired: 6/15/2022 15:23:19 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19709**	**.19814**	**.19212**	**1.002**
Stddev	.00163	.00007	.00149	.000
%RSD	.82592	.03736	.77308	.0356
#1	.19824	.19809	.19317	1.002
#2	.19594	.19819	.19107	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2997.6**	**2498.5**	**24297.**	**3635.7**
Stddev	2.7	4.7	8.	15.5
%RSD	.08925	.18945	.03489	.42568
#1	2995.7	2495.2	24303.	3646.6
#2	2999.5	2501.9	24291.	3624.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.592%	97.324%	96.541%	101.46%
Range				

Sample Name: 480-198948-A-1-A Acquired: 6/15/2022 15:27:03 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.00147**	**.00379**	**.05545**	**.00426**
Stddev	.00127	.00145	.00163	.00011	.00002
%RSD	307.26	98.471	43.015	.19827	.42960
#1	-.00132	.00045	.00263	.05552	.00425
#2	.00049	.00250	.00494	.05537	.00428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**19.392**	**.00008**	**-.0265**	**.00075**
Stddev	.00011	.015	.00001	.0237	.00005
%RSD	181.16	.07564	7.5792	89.51	7.3131
#1	-.00002	19.381	.00007	-.0097	.00079
#2	.00014	19.402	.00008	-.0433	.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00193**	**.09343**	**1.3276**	**-.00121**
Stddev	.00031	.00048	.00100	.0247	.00006
%RSD	246.10	24.964	1.0753	1.8626	5.3440
#1	-.00009	.00227	.09272	1.3101	-.00116
#2	.00034	.00159	.09414	1.3451	-.00125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198948-A-1-A Acquired: 6/15/2022 15:27:03 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.1202**	**7.1060**	**-.00020**	**10.047**	**.00050**
Stddev	.0002	.0333	.00026	.012	.00035
%RSD	.00893	.46888	130.54	.12421	70.099
#1	2.1201	7.0824	-.00002	10.038	.00075
#2	2.1204	7.1296	-.00038	10.056	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00147**	**4.1842**	**-.00127**	**.00037**
Stddev	.00	.00003	.0083	.00118	.00067
%RSD	.0023	2.1541	.19810	93.080	180.51
#1	25.02	.00145	4.1784	-.00044	.00084
#2	25.02	.00150	4.1901	-.00211	-.00010
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5633**	**-.00005**	**.15965**	**.9984**	**.00039**
Stddev	.0060	.00025	.00067	.0009	.00005
%RSD	.13112	485.88	.42087	.0951	12.876
#1	4.5675	-.00023	.15917	.9991	.00035
#2	4.5591	.00012	.16012	.9977	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198948-A-1-A Acquired: 6/15/2022 15:27:03 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00250**	**-.00003**	**.00282**	**.9989**
Stddev	.00034	.00032	.00023	.0004
%RSD	13.672	1128.4	8.0875	.0426
#1	-.00226	.00020	.00298	.9992
#2	-.00274	-.00025	.00266	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3059.1**	**2500.7**	**24476.**	**3610.1**
Stddev	3.2	.1	46.	10.7
%RSD	.10622	.00239	.18833	.29617
#1	3056.8	2500.7	24508.	3617.6
#2	3061.4	2500.6	24443.	3602.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.513%	97.406%	97.249%	100.74%
Range				

Sample Name: 480-198948-A-1-ASD@5 Acquired: 6/15/2022 15:31:00 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.01308**	**-.00023**	**.01979**	**.00143**
Stddev	.00044	.01305	.00082	.00056	.00003
%RSD	106.63	99.760	357.24	2.8298	2.2264
#1	-.00010	.02230	-.00081	.02019	.00146
#2	-.00072	.00385	.00035	.01940	.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**3.9700**	**-.00011**	**-.0033**	**.00010**
Stddev	.00003	.0141	.00010	.0022	.00008
%RSD	50.628	.35405	87.752	67.15	80.994
#1	.00008	3.9799	-.00018	-.0048	.00016
#2	.00004	3.9601	-.00004	-.0017	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.00134**	**.01654**	**.33307**	**-.00201**
Stddev	.00003	.00038	.00198	.00348	.00086
%RSD	12.640	28.462	11.956	1.0453	42.838
#1	-.00026	.00107	.01514	.33554	-.00140
#2	-.00021	.00161	.01794	.33061	-.00262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198948-A-1-ASD@5 Acquired: 6/15/2022 15:31:00 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.43058**	**1.4719**	**-.00012**	**2.0688**	**-.00017**
Stddev	.00266	.0025	.00005	.0063	.00011
%RSD	.61796	.17184	41.059	.30306	61.860
#1	.42870	1.4701	-.00009	2.0733	-.00010
#2	.43246	1.4736	-.00016	2.0644	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00040**	**.83485**	**.00018**	**-.00202**
Stddev	.00	.00087	.00466	.00090	.00124
%RSD	.0003	216.22	.55791	498.15	61.389
#1	25.02	-.00102	.83815	.00082	-.00289
#2	25.02	.00021	.83156	-.00046	-.00114
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.89952**	**-.00006**	**.03250**	**.9981**	**-.00006**
Stddev	.00308	.00004	.00027	.0043	.00021
%RSD	.34227	65.756	.81998	.4305	327.05
#1	.90169	-.00008	.03269	1.001	-.00021
#2	.89734	-.00003	.03232	.9950	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198948-A-1-ASD@5 Acquired: 6/15/2022 15:31:00 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00073**	**-.00023**	**.00090**	**1.000**
Stddev	.00099	.00026	.00006	.001
%RSD	135.25	110.89	6.9816	.0809
#1	-.00003	-.00042	.00085	1.001
#2	-.00143	-.00005	.00094	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3174.0**	**2536.1**	**24981.**	**3650.4**
Stddev	9.4	5.5	62.	4.3
%RSD	.29480	.21689	.24812	.11697
#1	3180.6	2540.0	24937.	3647.4
#2	3167.3	2532.2	25025.	3653.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.098%	98.788%	99.259%	101.87%
Range				

Sample Name: 480-198948-A-1-APDS Acquired: 6/15/2022 15:34:54 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05070**	**10.125**	**.21429**	**.26078**	**.22067**
Stddev	.00058	.018	.00151	.00013	.00076
%RSD	1.1458	.17419	.70622	.04816	.34559
#1	.05111	10.138	.21536	.26087	.22121
#2	.05029	10.113	.21322	.26069	.22013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21425**	**28.531**	**.20604**	**-.0142**	**.20330**
Stddev	.00108	.122	.00022	.0272	.00025
%RSD	.50554	.42680	.10880	191.6	.12241
#1	.21348	28.445	.20620	.0050	.20347
#2	.21502	28.617	.20588	-.0334	.20312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21645**	**.21254**	**10.295**	**11.043**	**.19918**
Stddev	.00118	.00039	.018	.007	.00107
%RSD	.54438	.18481	.17551	.06744	.53512
#1	.21728	.21281	10.282	11.048	.19843
#2	.21562	.21226	10.308	11.037	.19994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198948-A-1-APDS Acquired: 6/15/2022 15:34:54 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.608**	**6.9979**	**.21943**	**19.669**	**.19941**
Stddev	.025	.0213	.00005	.045	.00006
%RSD	.19977	.30411	.02348	.22871	.03121
#1	12.626	6.9829	.21939	19.637	.19946
#2	12.590	7.0130	.21946	19.701	.19937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.72**	**.20120**	**14.199**	**.21981**	**.20633**
Stddev	.00	.00206	.072	.00129	.00039
%RSD	.0080	1.0243	.50773	.58601	.19073
#1	24.73	.19974	14.250	.22072	.20660
#2	24.72	.20265	14.148	.21889	.20605
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.308**	**.19679**	**.36503**	**1.003**	**.20990**
Stddev	.118	.00013	.00100	.004	.00065
%RSD	.82656	.06825	.27287	.3534	.31195
#1	14.224	.19670	.36432	1.001	.21036
#2	14.391	.19689	.36573	1.006	.20944
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198948-A-1-APDS Acquired: 6/15/2022 15:34:54 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21097**	**.21360**	**.20354**	**.9985**
Stddev	.00068	.00122	.00105	.0005
%RSD	.32303	.56936	.51381	.0547
#1	.21049	.21446	.20428	.9981
#2	.21146	.21274	.20280	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2938.8**	**2486.2**	**24255.**	**3666.7**
Stddev	14.5	9.7	19.	17.1
%RSD	.49445	.39102	.07740	.46636
#1	2949.1	2493.1	24268.	3678.8
#2	2928.5	2479.4	24241.	3654.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.757%	96.845%	96.371%	102.32%
Range				

Sample Name: 480-198948-A-1-B MS Acquired: 6/15/2022 15:38:42 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04984**	**9.4084**	**.21322**	**.24268**	**.20467**
Stddev	.00030	.0144	.00053	.00062	.00025
%RSD	.60437	.15342	.24664	.25530	.12215
#1	.05005	9.4187	.21284	.24312	.20484
#2	.04963	9.3982	.21359	.24224	.20449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21465**	**29.061**	**.20566**	**-.0345**	**.20369**
Stddev	.00025	.101	.00017	.0032	.00012
%RSD	.11755	.34664	.08307	9.141	.05712
#1	.21483	29.133	.20554	-.0323	.20360
#2	.21448	28.990	.20578	-.0367	.20377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21447**	**.20962**	**10.407**	**10.318**	**.18331**
Stddev	.00052	.00020	.032	.042	.00038
%RSD	.24383	.09307	.30415	.40933	.20841
#1	.21410	.20948	10.429	10.288	.18304
#2	.21484	.20975	10.384	10.348	.18358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198948-A-1-B MS Acquired: 6/15/2022 15:38:42 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.716**	**7.1298**	**.21929**	**18.995**	**.19917**
Stddev	.053	.0440	.00026	.028	.00038
%RSD	.41347	.61697	.11646	.14589	.18995
#1	12.753	7.1609	.21911	19.015	.19943
#2	12.679	7.0987	.21947	18.975	.19890
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.73**	**.20031**	**13.623**	**.21474**	**.21042**
Stddev	.00	.00006	.025	.00124	.00276
%RSD	.0090	.03028	.18176	.57626	1.3132
#1	24.73	.20027	13.605	.21561	.20846
#2	24.72	.20035	13.641	.21386	.21237
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.806**	**.23387**	**.34930**	**1.004**	**.21003**
Stddev	.078	.00040	.00134	.005	.00008
%RSD	.56294	.16910	.38315	.4747	.03660
#1	13.861	.23359	.35025	1.007	.20997
#2	13.752	.23415	.34835	1.000	.21008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198948-A-1-B MS Acquired: 6/15/2022 15:38:42 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20780**	**.21189**	**.20576**	**.9987**
Stddev	.00081	.00004	.00095	.0003
%RSD	.38925	.02068	.46368	.0261
#1	.20723	.21186	.20508	.9985
#2	.20838	.21192	.20643	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2900.7**	**2453.2**	**23748.**	**3522.7**
Stddev	3.8	1.6	70.	14.6
%RSD	.13146	.06648	.29376	.41569
#1	2903.4	2454.3	23699.	3512.4
#2	2898.0	2452.0	23797.	3533.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.567%	95.556%	94.358%	98.305%
Range				

Sample Name: 480-198948-A-1-C MSD Acquired: 6/15/2022 15:42:30 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04821**	**9.5321**	**.20092**	**.24582**	**.20878**
Stddev	.00062	.0248	.00096	.00053	.00047
%RSD	1.2769	.25968	.47615	.21622	.22502
#1	.04865	9.5496	.20159	.24545	.20845
#2	.04778	9.5146	.20024	.24620	.20912
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19860**	**28.273**	**.19211**	**-.0111**	**.18997**
Stddev	.00065	.013	.00028	.0313	.00001
%RSD	.32628	.04534	.14738	282.1	.00484
#1	.19814	28.282	.19191	-.0332	.18998
#2	.19906	28.264	.19231	.0110	.18997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19949**	**.19679**	**9.6210**	**10.421**	**.18640**
Stddev	.00066	.00076	.0012	.125	.00022
%RSD	.32846	.38836	.01199	1.1960	.11979
#1	.19903	.19625	9.6202	10.510	.18655
#2	.19995	.19733	9.6219	10.333	.18624
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198948-A-1-C MSD Acquired: 6/15/2022 15:42:30 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.004**	**7.1660**	**.20384**	**19.299**	**.18587**
Stddev	.022	.0768	.00009	.111	.00035
%RSD	.18546	1.0718	.04315	.57637	.18984
#1	11.988	7.1117	.20378	19.377	.18612
#2	12.020	7.2203	.20390	19.220	.18562
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.72**	**.18817**	**13.724**	**.20047**	**.19636**
Stddev	.00	.00084	.006	.00110	.00011
%RSD	.0058	.44884	.04525	.54845	.05421
#1	24.72	.18876	13.729	.20125	.19629
#2	24.72	.18757	13.720	.19969	.19644
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.786**	**.23098**	**.35086**	**1.006**	**.19593**
Stddev	.034	.00030	.00002	.006	.00036
%RSD	.24737	.12868	.00674	.6140	.18469
#1	13.762	.23077	.35088	1.002	.19567
#2	13.810	.23119	.35084	1.010	.19618
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198948-A-1-C MSD Acquired: 6/15/2022 15:42:30 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19430**	**.19797**	**.19264**	**.9988**
Stddev	.00189	.00025	.00092	.0001
%RSD	.97280	.12797	.47677	.0114
#1	.19297	.19779	.19199	.9989
#2	.19564	.19815	.19329	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2911.9**	**2463.4**	**23839.**	**3567.4**
Stddev	.6	.7	164.	15.4
%RSD	.02064	.02996	.68649	.43172
#1	2912.3	2463.9	23954.	3556.5
#2	2911.5	2462.8	23723.	3578.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.916%	95.953%	94.719%	99.551%
Range				

Sample Name: CCV-7032336 Acquired: 6/15/2022 15:46:21 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0101**	**49.524**	**1.0080**	**1.0524**	**1.0130**
Stddev	.0007	.139	.0013	.0017	.0030
%RSD	.06690	.28165	.13054	.16461	.29540
#1	1.0106	49.425	1.0089	1.0511	1.0109
#2	1.0096	49.622	1.0071	1.0536	1.0151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0041**	**49.317**	**1.0077**	**1.009**	**.99084**
Stddev	.0043	.144	.0003	.024	.00052
%RSD	.43125	.29286	.02676	2.404	.05297
#1	1.0011	49.214	1.0076	1.026	.99047
#2	1.0072	49.419	1.0079	.9919	.99121
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0458**	**1.0022**	**49.743**	**49.483**	**.99289**
Stddev	.0023	.0012	.431	.209	.00537
%RSD	.21634	.12084	.86676	.42279	.54053
#1	1.0474	1.0030	49.438	49.335	.98909
#2	1.0442	1.0013	50.048	49.631	.99668
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 15:46:21 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.236**	**1.0321**	**1.0321**	**49.789**	**1.0015**
Stddev	.120	.0014	.0002	.157	.0002
%RSD	.23507	.13801	.01676	.31512	.01892
#1	51.321	1.0331	1.0320	49.678	1.0014
#2	51.151	1.0311	1.0322	49.900	1.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.60**	**.98993**	**24.818**	**1.0023**	**1.0284**
Stddev	.01	.00125	.014	.0028	.0041
%RSD	.0259	.12590	.05473	.28132	.39547
#1	37.60	.98905	24.808	1.0043	1.0313
#2	37.61	.99081	24.827	1.0003	1.0255
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8226**	**.98137**	**1.0036**	**1.495**	**1.0096**
Stddev	.0772	.00072	.0037	.009	.0033
%RSD	.78579	.07304	.37259	.6147	.32524
#1	9.7680	.98188	1.0010	1.488	1.0119
#2	9.8772	.98086	1.0063	1.501	1.0073
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 15:46:21 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0262**	**1.0410**	**1.0181**	**1.511**
Stddev	.0040	.0010	.0014	.005
%RSD	.39003	.10118	.13867	.3299
#1	1.0234	1.0417	1.0191	1.508
#2	1.0290	1.0402	1.0171	1.515
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2666.7**	**2381.6**	**22493.**	**3359.3**
Stddev	.9	.9	136.	3.1
%RSD	.03402	.03691	.60679	.09327
#1	2666.0	2381.0	22396.	3361.5
#2	2667.3	2382.2	22589.	3357.1

Sample Name: CCB-7026764 Acquired: 6/15/2022 15:50:02 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.00976**	**-.00002**	**.00672**	**.00012**
Stddev	.00032	.01895	.00003	.00017	.00001
%RSD	54.923	194.11	135.64	2.5534	10.367
#1	-.00081	-.00364	-.00004	.00684	.00012
#2	-.00036	.02316	-.00000	.00659	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.01392**	**.00007**	**.0137**	**-.00001**
Stddev	.00045	.01894	.00019	.0071	.00018
%RSD	114.13	136.06	289.42	51.83	1320.1
#1	.00008	.00053	.00020	.0188	-.00014
#2	.00072	.02732	-.00007	.0087	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.00129**	**.01520**	**.02743**	**-.00083**
Stddev	.00013	.00005	.01956	.01723	.00073
%RSD	78.253	3.7810	128.68	62.797	88.546
#1	.00025	.00133	.00137	.01525	-.00031
#2	.00007	.00126	.02902	.03961	-.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 15:50:02 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00378**	**.00052**	**.00022**	**.05365**	**.00011**
Stddev	.00473	.00011	.00005	.03440	.00025
%RSD	125.08	20.876	21.637	64.126	226.30
#1	.00044	.00044	.00019	.02932	.00029
#2	.00713	.00059	.00026	.07798	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00004**	**.00623**	**.00162**	**-.00151**
Stddev	.00	.00138	.00099	.00038	.00116
%RSD	.0004	3590.4	15.878	23.241	77.330
#1	25.02	.00094	.00693	.00189	-.00233
#2	25.02	-.00101	.00553	.00135	-.00068
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01300**	**.00012**	**.00024**	**.9991**	**.00006**
Stddev	.00860	.00025	.00053	.0004	.00015
%RSD	66.168	204.56	226.18	.0395	264.49
#1	-.01909	.00029	-.00014	.9988	.00016
#2	-.00692	-.00005	.00061	.9994	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 15:50:02 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00032**	**-.00026**	**-.00147**	**1.002**
Stddev	.00097	.00051	.00018	.001
%RSD	303.17	193.02	12.117	.0464
#1	-.00101	-.00063	-.00159	1.002
#2	.00037	.00010	-.00134	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3133.4**	**2503.7**	**24464.**	**3528.9**
Stddev	2.3	4.7	21.	26.8
%RSD	.07303	.18828	.08431	.75814
#1	3135.1	2507.0	24479.	3510.0
#2	3131.8	2500.4	24449.	3547.9

Sample Name: CCVL-7028546 Acquired: 6/15/2022 15:54:00 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00552**	**.20672**	**.01482**	**.02449**	**.00238**
Stddev	.00018	.00003	.00107	.00009	.00001
%RSD	3.2788	.01350	7.2159	.35967	.46820
#1	.00539	.20674	.01558	.02456	.00239
#2	.00565	.20670	.01407	.02443	.00238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00220**	**.50077**	**.00222**	**.0097**	**.00395**
Stddev	.00011	.00369	.00003	.0434	.00002
%RSD	5.0048	.73727	1.2793	446.6	.46107
#1	.00228	.50338	.00220	.0404	.00394
#2	.00212	.49816	.00224	-.0210	.00397
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00415**	**.01100**	**.05956**	**.42744**	**.02670**
Stddev	.00028	.00046	.00052	.06435	.00042
%RSD	6.7474	4.1377	.87595	15.056	1.5777
#1	.00435	.01068	.05993	.38193	.02699
#2	.00395	.01132	.05919	.47294	.02640
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/15/2022 15:54:00 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20894**	F **.00462**	**.01049**	**.95781**	**.00963**
Stddev	.00306	.00007	.00026	.00173	.00022
%RSD	1.4646	1.4440	2.4409	.18041	2.3345
#1	.21111	.00458	.01031	.95903	.00979
#2	.20678	.00467	.01067	.95659	.00947
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		.00300			
Range		50.000%			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00924**	**.20053**	**.01957**	**.02500**
Stddev	.00	.00068	.00079	.00133	.00218
%RSD	.0024	7.3134	.39581	6.7984	8.7247
#1	25.00	.00972	.20109	.01863	.02346
#2	25.00	.00877	.19997	.02051	.02654
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45088**	**.00915**	**.00538**	F **1.004**	**.00515**
Stddev	.01070	.00003	.00002	.006	.00034
%RSD	2.3732	.29285	.37090	.5801	6.6647
#1	.45845	.00913	.00537	1.008	.00539
#2	.44332	.00917	.00539	.9999	.00490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/15/2022 15:54:00 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02030**	**.00534**	**.01055**	F **1.000**
Stddev	.00044	.00030	.00001	.000
%RSD	2.1858	5.5971	.08414	.0359
#1	.01999	.00555	.01055	1.000
#2	.02062	.00513	.01054	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3115.4**	**2487.0**	**24082.**	**3440.4**
Stddev	15.8	9.9	122.	.2
%RSD	.50684	.39727	.50503	.00719
#1	3104.2	2480.0	24168.	3440.3
#2	3126.5	2494.0	23996.	3440.6

Sample Name: 480-198906-B-2-A Acquired: 6/15/2022 15:57:55 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**-.01369**	**.00056**	**.01840**	**.06154**
Stddev	.00087	.00554	.00050	.00006	.00001
%RSD	363.27	40.451	89.852	.32624	.02202
#1	-.00038	-.01761	.00091	.01836	.06155
#2	.00085	-.00978	.00020	.01844	.06153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**73.231**	**.00031**	**.0554**	**-.00010**
Stddev	.00013	.066	.00002	.0012	.00007
%RSD	152.37	.08962	6.3504	2.114	76.801
#1	.00017	73.184	.00032	.0562	-.00004
#2	-.00001	73.277	.00029	.0546	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00135**	**.00099**	**.00317**	**1.2528**	**.00181**
Stddev	.00031	.00011	.00038	.0385	.00096
%RSD	22.612	11.185	11.931	3.0742	52.947
#1	.00114	.00107	.00344	1.2256	.00249
#2	.00157	.00091	.00291	1.2800	.00113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198906-B-2-A Acquired: 6/15/2022 15:57:55 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**40.158**	**.00092**	**.00036**	**3.5449**	**.00020**
Stddev	.121	.00003	.00001	.0137	.00031
%RSD	.30240	3.4930	2.0006	.38582	157.55
#1	40.244	.00090	.00036	3.5352	.00041
#2	40.072	.00095	.00037	3.5545	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00126**	**10.224**	**-.00141**	**-.00165**
Stddev	.00	.00208	.000	.00006	.00267
%RSD	.0013	165.57	.00209	4.0585	162.01
#1	25.02	.00273	10.224	-.00137	.00024
#2	25.02	-.00021	10.224	-.00145	-.00354
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.2986**	**-.00003**	**.19173**	**1.001**	**.00041**
Stddev	.0103	.00052	.00010	.000	.00007
%RSD	.14082	1651.6	.05313	.0065	16.499
#1	7.3059	.00033	.19166	1.001	.00045
#2	7.2914	-.00040	.19181	1.001	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198906-B-2-A Acquired: 6/15/2022 15:57:55 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00034**	**-.00026**	**.00232**	**1.000**
Stddev	.00108	.00033	.00005	.001
%RSD	318.36	128.25	2.1629	.1107
#1	.00043	-.00002	.00236	1.001
#2	-.00111	-.00049	.00228	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2878.9**	**2421.4**	**23585.**	**3557.0**
Stddev	2.3	2.6	37.	9.4
%RSD	.07949	.10838	.15506	.26487
#1	2880.5	2419.6	23559.	3563.7
#2	2877.3	2423.3	23611.	3550.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.885%	94.320%	93.711%	99.262%
Range				

Sample Name: 480-198906-B-3-A Acquired: 6/15/2022 16:01:47 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00093**	**-.02333**	**.00010**	**.01751**	**.06356**
Stddev	.00004	.01032	.00075	.00051	.00002
%RSD	4.4560	44.257	763.64	2.8925	.03636
#1	-.00090	-.01603	.00063	.01787	.06357
#2	-.00096	-.03062	-.00043	.01716	.06354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**75.902**	**.00033**	**.0146**	**-.00015**
Stddev	.00002	.025	.00013	.0208	.00004
%RSD	32.623	.03285	40.793	142.2	26.469
#1	.00005	75.884	.00042	.0293	-.00012
#2	.00009	75.919	.00023	-.0001	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.00142**	**-.00072**	**1.1853**	**-.00015**
Stddev	.00018	.00077	.00253	.0242	.00020
%RSD	34.561	54.246	352.39	2.0452	134.09
#1	.00038	.00197	.00107	1.1682	-.00029
#2	.00063	.00088	-.00250	1.2024	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198906-B-3-A Acquired: 6/15/2022 16:01:47 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**40.500**	**.00032**	**-.00004**	**5.2562**	**-.00009**
Stddev	.027	.00001	.00013	.0039	.00012
%RSD	.06549	3.1371	327.54	.07413	136.83
#1	40.519	.00033	.00005	5.2534	-.00000
#2	40.481	.00031	-.00013	5.2589	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00071**	**10.465**	**.00035**	**-.00013**
Stddev	.00	.00085	.020	.00113	.00066
%RSD	.0030	120.36	.19541	322.15	516.36
#1	25.02	-.00131	10.479	.00115	-.00060
#2	25.02	-.00011	10.450	-.00045	.00034
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.8124**	**-.00051**	**.16694**	**1.001**	**.00058**
Stddev	.0165	.00000	.00036	.001	.00031
%RSD	.24219	.72481	.21721	.1089	53.047
#1	6.8241	-.00051	.16720	1.001	.00079
#2	6.8007	-.00052	.16668	.9998	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198906-B-3-A Acquired: 6/15/2022 16:01:47 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00123**	**-.00067**	**.00352**	**1.001**
Stddev	.00004	.00029	.00005	.000
%RSD	3.3008	42.868	1.3716	.0244
#1	-.00120	-.00047	.00355	1.001
#2	-.00126	-.00088	.00348	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2866.4**	**2411.5**	**23619.**	**3570.3**
Stddev	1.1	.3	28.	2.8
%RSD	.03723	.01157	.11810	.07914
#1	2867.2	2411.7	23599.	3568.3
#2	2865.7	2411.3	23639.	3572.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.497%	93.935%	93.846%	99.632%
Range				

Sample Name: 480-198906-B-4-A Acquired: 6/15/2022 16:05:39 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.00423**	**-.00004**	**.02499**	**.14018**
Stddev	.00030	.00546	.00330	.00052	.00058
%RSD	7721.0	129.06	8743.1	2.0965	.41426
#1	-.00021	.00037	.00229	.02462	.13977
#2	.00021	.00809	-.00237	.02536	.14059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**90.998**	**.00039**	**.0069**	**-.00018**
Stddev	.00002	.176	.00014	.0205	.00016
%RSD	1218.7	.19371	35.137	296.4	87.886
#1	-.00002	91.123	.00049	-.0076	-.00007
#2	.00001	90.874	.00029	.0214	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00203**	**.00235**	**.00090**	**1.0209**	**.00126**
Stddev	.00019	.00035	.00025	.0363	.00011
%RSD	9.6156	14.992	27.600	3.5522	8.3405
#1	.00216	.00210	.00108	1.0466	.00134
#2	.00189	.00260	.00073	.99530	.00119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198906-B-4-A Acquired: 6/15/2022 16:05:39 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.118**	**.00036**	**.00025**	**4.7641**	**.00017**
Stddev	.243	.00001	.00029	.0166	.00025
%RSD	.48419	3.7506	115.50	.34758	145.50
#1	49.946	.00035	.00005	4.7524	.00035
#2	50.289	.00037	.00045	4.7758	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00031**	**22.463**	**.00047**	**-.00404**
Stddev	.00	.00051	.011	.00085	.00447
%RSD	.0041	165.93	.04850	178.94	110.86
#1	25.02	-.00005	22.470	.00107	-.00720
#2	25.02	.00066	22.455	-.00013	-.00087
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.6624**	**-.00042**	**.12519**	**.9917**	**.00084**
Stddev	.0217	.00014	.00037	.0075	.00004
%RSD	.25089	34.398	.29708	.7584	4.2359
#1	8.6777	-.00052	.12545	.9864	.00087
#2	8.6470	-.00031	.12493	.9971	.00082
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198906-B-4-A Acquired: 6/15/2022 16:05:39 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00150**	**.00165**	**.01671**	**1.001**
Stddev	.00054	.00002	.00023	.000
%RSD	36.265	1.2794	1.3491	.0173
#1	-.00188	.00163	.01655	1.001
#2	-.00111	.00166	.01687	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2852.6**	**2407.4**	**23442.**	**3551.1**
Stddev	2.5	.2	54.	5.5
%RSD	.08853	.00991	.22948	.15429
#1	2850.8	2407.2	23480.	3547.2
#2	2854.4	2407.5	23404.	3555.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.064%	93.772%	93.144%	99.097%
Range				

Sample Name: 480-198906-B-5-A Acquired: 6/15/2022 16:09:31 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.01173**	**.00020**	**.02173**	**.07765**
Stddev	.00059	.00491	.00050	.00020	.00013
%RSD	2629.1	41.879	244.06	.90547	.16432
#1	-.00040	-.01520	.00055	.02187	.07774
#2	.00044	-.00825	-.00015	.02159	.07756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**50.830**	**.00038**	**.0221**	**-.00003**
Stddev	.00003	.224	.00013	.0204	.00004
%RSD	10438.	.44048	34.265	92.21	150.79
#1	-.00002	50.672	.00047	.0077	-.00005
#2	.00002	50.988	.00028	.0365	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00101**	**.00122**	**.00748**	**1.6871**	**.00451**
Stddev	.00007	.00016	.00072	.0732	.00085
%RSD	7.3135	12.770	9.5923	4.3409	18.751
#1	.00106	.00111	.00799	1.6354	.00511
#2	.00096	.00134	.00697	1.7389	.00391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198906-B-5-A Acquired: 6/15/2022 16:09:31 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.491**	**.00012**	**.00051**	**8.2244**	**.00022**
Stddev	.110	.00001	.00039	.0368	.00002
%RSD	.21368	6.6174	76.322	.44691	8.6318
#1	51.569	.00012	.00024	8.1984	.00020
#2	51.413	.00013	.00079	8.2504	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00047**	**10.320**	**-.00304**	**-.00133**
Stddev	.00	.00007	.006	.00250	.00282
%RSD	.0016	15.291	.05417	82.294	212.69
#1	25.02	.00042	10.316	-.00127	-.00332
#2	25.02	.00052	10.324	-.00481	.00067
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.9318**	**-.00016**	**.21145**	**.9995**	**.00020**
Stddev	.0029	.00019	.00094	.0008	.00044
%RSD	.03294	115.46	.44597	.0842	214.36
#1	8.9297	-.00029	.21078	.9989	.00051
#2	8.9339	-.00003	.21212	1.000	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198906-B-5-A Acquired: 6/15/2022 16:09:31 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00085**	**-.00101**	**.00041**	**1.001**
Stddev	.00117	.00074	.00031	.001
%RSD	136.81	73.404	75.599	.0908
#1	-.00003	-.00048	.00063	1.000
#2	-.00168	-.00153	.00019	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2864.9**	**2416.9**	**23337.**	**3512.2**
Stddev	6.1	5.4	36.	26.9
%RSD	.21127	.22353	.15466	.76512
#1	2869.1	2420.7	23311.	3531.2
#2	2860.6	2413.1	23362.	3493.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.448%	94.144%	92.724%	98.012%
Range				

Sample Name: 480-198906-B-6-A Acquired: 6/15/2022 16:13:23 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.00600**	**.00192**	**.17858**	**.14709**
Stddev	.00022	.01767	.00279	.00002	.00080
%RSD	43.900	294.46	145.11	.01366	.54081
#1	-.00066	.01850	-.00005	.17860	.14766
#2	-.00035	-.00650	.00389	.17857	.14653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**104.49**	**.00026**	**.0034**	**-.00003**
Stddev	.00005	.59	.00002	.0400	.00001
%RSD	34.205	.56868	6.1479	1172.	26.489
#1	-.00012	104.07	.00027	.0317	-.00004
#2	-.00019	104.91	.00025	-.0249	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00310**	**-.00180**	**2.6328**	**.00250**
Stddev	.00009	.00065	.00213	.0053	.00172
%RSD	104.98	20.857	117.99	.20164	68.751
#1	.00014	.00356	-.00030	2.6365	.00129
#2	.00002	.00264	-.00330	2.6290	.00372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198906-B-6-A Acquired: 6/15/2022 16:13:23 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.153**	**.00052**	**.00823**	**8.2244**	**.00112**
Stddev	.214	.00000	.00004	.0116	.00005
%RSD	.56025	.78395	.43003	.14106	4.4201
#1	38.304	.00052	.00821	8.2162	.00109
#2	38.002	.00052	.00826	8.2326	.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00105**	**39.739**	**.00091**	**-.00306**
Stddev	.00	.00179	.045	.00262	.00302
%RSD	.0011	170.92	.11331	288.23	98.777
#1	25.02	.00231	39.771	.00276	-.00520
#2	25.02	-.00022	39.707	-.00094	-.00092
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.2296**	**-.00052**	F **14.455**	**1.005**	**.00061**
Stddev	.0089	.00011	.061	.002	.00021
%RSD	.21065	21.203	.42475	.2031	34.109
#1	4.2359	-.00044	14.412	1.003	.00076
#2	4.2233	-.00060	14.499	1.006	.00047
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-198906-B-6-A Acquired: 6/15/2022 16:13:23 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00097**	**.00085**	**.00744**	**.9999**
Stddev	.00140	.00006	.00008	.0001
%RSD	144.74	7.3050	1.1257	.0063
#1	-.00002	.00090	.00750	1.0000
#2	.00196	.00081	.00738	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2769.8**	**2361.7**	**22810.**	**3411.6**
Stddev	2.9	4.7	143.	25.7
%RSD	.10359	.19908	.62704	.75422
#1	2767.8	2358.3	22708.	3429.8
#2	2771.8	2365.0	22911.	3393.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.480%	91.992%	90.630%	95.204%
Range				

Sample Name: 480-198906-B-7-A Acquired: 6/15/2022 16:17:21 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.00438**	**.00126**	**.01264**	**.06607**
Stddev	.00073	.03531	.00213	.00047	.00005
%RSD	177.73	806.71	169.00	3.7053	.07486
#1	.00093	.02934	-.00025	.01230	.06604
#2	-.00011	-.02059	.00276	.01297	.06611
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**78.937**	**.00024**	**.0422**	**.00002**
Stddev	.00002	.377	.00014	.0177	.00014
%RSD	30.106	.47721	60.900	41.97	824.01
#1	-.00004	79.203	.00034	.0547	-.00008
#2	-.00006	78.671	.00013	.0297	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00269**	**.00134**	**-.00127**	**.99713**	**.00098**
Stddev	.00043	.00028	.00252	.00103	.00005
%RSD	16.022	21.187	198.37	.10319	5.5817
#1	.00299	.00154	.00051	.99640	.00095
#2	.00238	.00114	-.00305	.99785	.00102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198906-B-7-A Acquired: 6/15/2022 16:17:21 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**41.750**	**.00022**	**.00001**	**2.6729**	**.00043**
Stddev	.132	.00009	.00016	.0082	.00045
%RSD	.31690	42.850	1183.9	.30546	105.38
#1	41.657	.00015	-.00010	2.6787	.00075
#2	41.844	.00029	.00013	2.6672	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00027**	**11.249**	**-.00044**	**.00289**
Stddev	.00	.00035	.016	.00060	.00093
%RSD	.0022	129.85	.14087	137.08	32.297
#1	25.02	-.00002	11.260	-.00087	.00223
#2	25.02	-.00051	11.238	-.00001	.00355
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.9959**	**.00012**	**.06483**	**.9963**	**.00082**
Stddev	.0432	.00002	.00058	.0026	.00037
%RSD	.54046	17.686	.88776	.2619	45.401
#1	8.0264	.00014	.06524	.9945	.00109
#2	7.9653	.00011	.06442	.9982	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198906-B-7-A Acquired: 6/15/2022 16:17:21 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00201**	**.00174**	**.00094**	**1.000**
Stddev	.00010	.00000	.00017	.001
%RSD	4.9401	.18318	17.896	.1102
#1	-.00194	.00174	.00106	1.001
#2	-.00209	.00173	.00082	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2855.6**	**2402.1**	**23511.**	**3546.6**
Stddev	8.8	5.1	125.	22.7
%RSD	.30806	.21199	.53196	.64090
#1	2861.9	2405.7	23599.	3530.5
#2	2849.4	2398.5	23422.	3562.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.160%	93.566%	93.416%	98.972%
Range				

Sample Name: 480-198906-B-8-A Acquired: 6/15/2022 16:21:13 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.00789**	**-.00048**	**.13542**	**.06342**
Stddev	.00024	.00618	.00012	.00012	.00018
%RSD	38.788	78.311	25.158	.08861	.28035
#1	-.00046	.00352	-.00056	.13550	.06330
#2	-.00080	.01226	-.00039	.13534	.06355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**95.609**	**.00023**	**.0164**	**-.00005**
Stddev	.00006	.216	.00013	.0346	.00010
%RSD	328.34	.22561	54.730	211.7	174.57
#1	.00006	95.761	.00014	.0409	-.00012
#2	-.00002	95.456	.00032	-.0081	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00162**	**.00117**	**-.00174**	**1.6719**	**.00167**
Stddev	.00000	.00028	.00032	.0389	.00138
%RSD	.23640	23.727	18.418	2.3253	82.932
#1	.00162	.00098	-.00197	1.6444	.00265
#2	.00162	.00137	-.00152	1.6993	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198906-B-8-A Acquired: 6/15/2022 16:21:13 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.976**	**.00020**	**.00021**	**10.844**	**.00043**
Stddev	.117	.00001	.00009	.019	.00018
%RSD	.22113	4.0022	44.836	.17669	41.581
#1	52.894	.00021	.00014	10.858	.00031
#2	53.059	.00020	.00027	10.830	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00001**	**15.598**	**-.00078**	**.00159**
Stddev	.00	.00044	.001	.00042	.00038
%RSD	.0009	4184.8	.00941	53.922	23.810
#1	25.03	.00032	15.599	-.00048	.00132
#2	25.03	-.00030	15.597	-.00107	.00185
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.0766**	**-.00043**	**.16958**	**1.001**	**.00057**
Stddev	.0004	.00020	.00066	.003	.00067
%RSD	.00548	45.875	.38793	.3112	116.61
#1	8.0769	-.00058	.17005	.9992	.00010
#2	8.0762	-.00029	.16912	1.004	.00104
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198906-B-8-A Acquired: 6/15/2022 16:21:13 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00115**	**.00116**	**.00054**	**1.000**
Stddev	.00053	.00010	.00013	.000
%RSD	46.466	8.6754	24.579	.0236
#1	.00077	.00124	.00063	1.000
#2	.00152	.00109	.00044	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2772.2**	**2360.4**	**22782.**	**3429.3**
Stddev	12.1	8.0	24.	11.3
%RSD	.43738	.33817	.10448	.32875
#1	2780.8	2366.1	22799.	3437.3
#2	2763.7	2354.8	22765.	3421.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.555%	91.945%	90.520%	95.699%
Range				

Sample Name: 480-198961-A-3-A Acquired: 6/15/2022 16:25:04 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.01633**	**.00237**	**.06754**	**.22316**
Stddev	.00015	.02118	.00043	.00016	.00098
%RSD	36.692	129.66	18.287	.23320	.43702
#1	.00031	.03131	.00267	.06765	.22247
#2	.00052	.00136	.00206	.06742	.22385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**153.26**	**.00028**	**-.0056**	**.00099**
Stddev	.00005	.03	.00010	.0362	.00019
%RSD	94.610	.01976	35.381	641.7	19.112
#1	.00009	153.23	.00036	-.0312	.00086
#2	.00002	153.28	.00021	.0199	.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.00156**	**9.7012**	**1.5638**	**.00236**
Stddev	.00013	.00014	.0302	.0127	.00031
%RSD	42.074	9.1883	.31135	.81098	13.053
#1	.00022	.00146	9.6798	1.5728	.00258
#2	.00041	.00166	9.7225	1.5548	.00215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198961-A-3-A Acquired: 6/15/2022 16:25:04 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**58.636**	**.62248**	**-.00023**	**11.129**	**.00226**
Stddev	.245	.00390	.00020	.040	.00000
%RSD	.41736	.62654	86.396	.35519	.07703
#1	58.463	.61972	-.00009	11.102	.00226
#2	58.809	.62523	-.00037	11.157	.00226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00101**	**8.9074**	**-.00043**	**-.00027**
Stddev	.00	.00027	.0024	.00056	.00131
%RSD	.0073	26.210	.02635	131.99	483.57
#1	25.01	.00120	8.9058	-.00003	.00066
#2	25.01	.00082	8.9091	-.00082	-.00120
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.7059**	**.00004**	**.16830**	**1.000**	**.00065**
Stddev	.0351	.00106	.00040	.004	.00005
%RSD	.40299	2842.8	.23868	.4345	8.0135
#1	8.6811	.00079	.16802	.9971	.00068
#2	8.7307	-.00071	.16859	1.003	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198961-A-3-A Acquired: 6/15/2022 16:25:04 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00049**	**-.00065**	**.05093**	**1.000**
Stddev	.00151	.00045	.00071	.001
%RSD	308.46	69.996	1.4005	.0565
#1	-.00156	-.00097	.05143	1.001
#2	.00058	-.00033	.05042	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2721.0**	**2339.6**	**22657.**	**3437.0**
Stddev	2.5	.5	135.	15.6
%RSD	.09190	.02183	.59526	.45443
#1	2719.3	2339.2	22752.	3426.0
#2	2722.8	2340.0	22562.	3448.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.957%	91.133%	90.023%	95.914%
Range				

Sample Name: 480-198961-A-4-A Acquired: 6/15/2022 16:28:55 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.00444**	**.00267**	**.00861**	**.06479**
Stddev	.00027	.01944	.00030	.00034	.00019
%RSD	53.303	437.70	11.084	3.9982	.29763
#1	-.00031	-.00930	.00288	.00836	.06465
#2	-.00069	.01818	.00246	.00885	.06492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**57.930**	**.00023**	**.0297**	**-.00004**
Stddev	.00008	.027	.00012	.0462	.00025
%RSD	138.75	.04619	50.224	155.5	622.02
#1	.00000	57.949	.00015	.0624	.00014
#2	.00011	57.911	.00031	-.0030	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00106**	**.00007**	**.82985**	**.00213**
Stddev	.00001	.00086	.00085	.02324	.00022
%RSD	12.621	81.693	1188.5	2.8011	10.357
#1	.00007	.00045	-.00053	.84629	.00229
#2	.00006	.00167	.00067	.81342	.00198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198961-A-4-A Acquired: 6/15/2022 16:28:55 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.003**	**.00039**	**.00042**	**2.2522**	**-.00003**
Stddev	.105	.00004	.00026	.0157	.00007
%RSD	.33746	10.267	61.411	.69762	258.66
#1	30.929	.00042	.00061	2.2411	-.00008
#2	31.077	.00037	.00024	2.2633	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00005**	**5.4217**	**-.00218**	**-.00087**
Stddev	.00	.00069	.0141	.00155	.00415
%RSD	.0015	1408.5	.25976	71.085	475.97
#1	25.02	.00044	5.4316	-.00109	-.00381
#2	25.02	-.00054	5.4117	-.00328	.00206
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.7080**	**.00005**	**.24577**	**.9922**	**.00015**
Stddev	.0753	.00063	.00027	.0027	.00013
%RSD	1.1228	1144.3	.10873	.2764	86.524
#1	6.6548	.00050	.24596	.9903	.00025
#2	6.7613	-.00039	.24558	.9942	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198961-A-4-A Acquired: 6/15/2022 16:28:55 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00056**	**.00134**	**1.001**
Stddev	.00208	.00026	.00037	.000
%RSD	2466.7	47.017	27.478	.0366
#1	.00138	-.00037	.00108	1.001
#2	-.00155	-.00075	.00160	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2917.7**	**2432.4**	**23727.**	**3593.7**
Stddev	4.8	3.4	56.	12.6
%RSD	.16302	.14038	.23779	.35001
#1	2921.1	2430.0	23767.	3584.8
#2	2914.3	2434.8	23687.	3602.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.098%	94.747%	94.276%	100.29%
Range				

Sample Name: CCV-7032336 Acquired: 6/15/2022 16:32:52 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0196**	**49.581**	**1.0114**	**1.0423**	**1.0093**
Stddev	.0015	.118	.0032	.0026	.0003
%RSD	.15148	.23808	.31466	.24710	.03211
#1	1.0185	49.664	1.0091	1.0405	1.0091
#2	1.0207	49.498	1.0136	1.0441	1.0095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99309**	**49.182**	**1.0096**	**1.014**	**.99360**
Stddev	.00026	.006	.0014	.008	.00168
%RSD	.02600	.01215	.14275	.7888	.16910
#1	.99291	49.186	1.0086	1.008	.99242
#2	.99328	49.178	1.0106	1.020	.99479
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0307**	**1.0045**	**50.010**	**48.836**	**.98590**
Stddev	.0044	.0002	.027	.009	.00114
%RSD	.42556	.01708	.05419	.01772	.11555
#1	1.0276	1.0043	49.990	48.830	.98509
#2	1.0338	1.0046	50.029	48.842	.98670
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 16:32:52 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.010**	**1.0195**	**1.0231**	**49.478**	**.99858**
Stddev	.095	.0026	.0016	.072	.00006
%RSD	.18633	.25361	.15996	.14646	.00621
#1	50.943	1.0176	1.0219	49.427	.99862
#2	51.077	1.0213	1.0242	49.529	.99853
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.73**	**.99535**	**25.151**	**1.0056**	**1.0221**
Stddev	.02	.00283	.052	.0003	.0062
%RSD	.0415	.28404	.20496	.03382	.60465
#1	37.72	.99335	25.115	1.0054	1.0177
#2	37.74	.99735	25.188	1.0059	1.0265
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8473**	**.98430**	**1.0087**	**1.504**	**1.0148**
Stddev	.0286	.00200	.0001	.005	.0025
%RSD	.29053	.20328	.01362	.3331	.24416
#1	9.8271	.98572	1.0088	1.507	1.0130
#2	9.8675	.98289	1.0086	1.500	1.0165
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 16:32:52 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0154**	**1.0227**	**1.0234**	**1.504**
Stddev	.0018	.0036	.0006	.002
%RSD	.17609	.35125	.05763	.1224
#1	1.0167	1.0202	1.0230	1.503
#2	1.0142	1.0253	1.0238	1.505
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2670.6**	**2381.1**	**22626.**	**3447.3**
Stddev	.0	2.1	91.	4.9
%RSD	.00038	.08984	.40010	.14304
#1	2670.6	2382.6	22690.	3450.8
#2	2670.6	2379.5	22562.	3443.9

Sample Name: CCB-7026764 Acquired: 6/15/2022 16:36:32 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**-.01601**	**.00098**	**.00251**	**.00004**
Stddev	.00018	.02221	.00050	.00005	.00001
%RSD	50.292	138.69	51.715	2.0825	37.367
#1	.00022	-.00031	.00133	.00255	.00003
#2	.00047	-.03171	.00062	.00248	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00167**	**-.00015**	**.0232**	**.00007**
Stddev	.00003	.00351	.00014	.0056	.00015
%RSD	36.923	210.35	92.376	24.21	214.80
#1	.00011	-.00081	-.00005	.0192	-.00004
#2	.00006	.00415	-.00025	.0271	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.00010**	**-.00197**	**.04795**	**-.00112**
Stddev	.00020	.00100	.00384	.08004	.00038
%RSD	201.57	950.12	194.49	166.93	34.053
#1	.00004	.00060	.00074	.10455	-.00139
#2	-.00024	-.00081	-.00469	-.00865	-.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 16:36:32 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00388**	**-.00020**	**.00028**	**.02470**	**-.00014**
Stddev	.00499	.00008	.00016	.00139	.00015
%RSD	128.74	42.204	57.837	5.6457	109.13
#1	.00741	-.00026	.00039	.02568	-.00025
#2	.00035	-.00014	.00016	.02371	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00028**	**.00168**	**.00105**	**.00160**
Stddev	.00	.00010	.00467	.00014	.00064
%RSD	.0006	36.930	278.21	13.314	39.950
#1	25.02	-.00020	.00498	.00095	.00205
#2	25.02	-.00035	-.00162	.00115	.00114
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02446**	**-.00007**	**-.00002**	**.9939**	**.00021**
Stddev	.01059	.00022	.00005	.0026	.00006
%RSD	43.292	332.30	205.51	.2647	29.464
#1	-.03194	-.00022	-.00006	.9921	.00025
#2	-.01697	.00009	.00001	.9958	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 16:36:32 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.00022**	**-.00165**	**1.002**
Stddev	.00097	.00003	.00006	.000
%RSD	668.84	12.924	3.6293	.0233
#1	-.00083	-.00020	-.00161	1.002
#2	.00054	-.00024	-.00170	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3132.6**	**2502.6**	**24339.**	**3485.5**
Stddev	2.7	1.1	80.	20.9
%RSD	.08559	.04427	.32927	.59949
#1	3130.7	2501.8	24395.	3500.2
#2	3134.5	2503.3	24282.	3470.7

Sample Name: CCVL-7028546 Acquired: 6/15/2022 16:40:32 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00555**	**.17968**	**.01460**	**.02073**	**.00215**
Stddev	.00031	.01458	.00017	.00058	.00007
%RSD	5.6659	8.1143	1.1573	2.7907	3.4737
#1	.00577	.16937	.01472	.02114	.00210
#2	.00532	.18999	.01449	.02032	.00221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**.48996**	**.00184**	**.0244**	**.00373**
Stddev	.00002	.00286	.00008	.0081	.00003
%RSD	1.0563	.58437	4.1697	33.13	.73327
#1	.00205	.48793	.00179	.0301	.00371
#2	.00208	.49198	.00189	.0187	.00375
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00396**	**.01121**	**.04845**	**.45101**	**.02596**
Stddev	.00036	.00066	.00095	.01913	.00061
%RSD	9.1951	5.8677	1.9627	4.2412	2.3687
#1	.00370	.01075	.04778	.46454	.02640
#2	.00422	.01168	.04913	.43749	.02553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/15/2022 16:40:32 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19552**	**.00326**	**.01024**	**.94390**	**.00963**
Stddev	.00294	.00009	.00008	.00388	.00012
%RSD	1.5061	2.7779	.75532	.41089	1.2011
#1	.19760	.00332	.01030	.94664	.00972
#2	.19343	.00319	.01019	.94116	.00955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00907**	**.19948**	**.01768**	**.02289**
Stddev	.00	.00024	.00032	.00003	.00075
%RSD	.0015	2.6110	.16035	.14927	3.2883
#1	25.00	.00924	.19925	.01766	.02236
#2	25.00	.00890	.19970	.01769	.02342
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46779**	**.00914**	**.00494**	F **1.000**	**.00494**
Stddev	.01912	.00005	.00003	.002	.00011
%RSD	4.0865	.54634	.51657	.1945	2.2369
#1	.48131	.00910	.00496	.9990	.00486
#2	.45427	.00917	.00492	1.002	.00502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/15/2022 16:40:32 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01911**	**.00493**	**.01052**	F **1.001**
Stddev	.00003	.00025	.00063	.000
%RSD	.14541	5.0985	5.9497	.0445
#1	.01909	.00476	.01008	1.000
#2	.01913	.00511	.01096	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3135.6**	**2505.3**	**24269.**	**3533.9**
Stddev	9.5	9.5	59.	2.7
%RSD	.30313	.37970	.24448	.07540
#1	3128.9	2498.5	24311.	3535.8
#2	3142.3	2512.0	24227.	3532.0

Sample Name: 480-198910-B-1-A Acquired: 6/15/2022 16:44:27 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**7.8159**	**.00518**	**.14896**	**.12839**
Stddev	.00101	.0222	.00201	.00020	.00024
%RSD	272.78	.28441	38.745	.13368	.18585
#1	-.00108	7.8316	.00659	.14911	.12822
#2	.00034	7.8002	.00376	.14882	.12856
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**103.73**	**.00034**	**-.0061**	**.00298**
Stddev	.00001	.36	.00004	.0137	.00005
%RSD	3.3658	.34724	11.980	224.4	1.6977
#1	.00029	103.98	.00031	.0036	.00295
#2	.00028	103.47	.00036	-.0158	.00302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00998**	**.00880**	**6.5937**	**13.415**	**.01739**
Stddev	.00049	.00005	.0050	.092	.00123
%RSD	4.9609	.51453	.07666	.68369	7.0469
#1	.00963	.00883	6.5973	13.480	.01653
#2	.01033	.00876	6.5902	13.350	.01826
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198910-B-1-A Acquired: 6/15/2022 16:44:27 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.653**	**.40011**	**.01042**	**151.90**	**.00928**
Stddev	.135	.00074	.00002	.23	.00024
%RSD	.44097	.18519	.20444	.14986	2.6003
#1	30.558	.39958	.01040	152.06	.00945
#2	30.749	.40063	.01043	151.73	.00911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.15**	**.00919**	**39.906**	**.00043**	**.00287**
Stddev	.00	.00041	.205	.00164	.00121
%RSD	.0008	4.4276	.51452	385.42	42.082
#1	25.15	.00947	40.051	.00158	.00202
#2	25.15	.00890	39.761	-.00073	.00373
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.984**	**.00031**	**3.3120**	**1.008**	**.27807**
Stddev	.192	.00013	.0072	.002	.01041
%RSD	.91415	42.359	.21604	.2238	3.7429
#1	21.120	.00022	3.3171	1.009	.28543
#2	20.848	.00040	3.3070	1.006	.27071
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198910-B-1-A Acquired: 6/15/2022 16:44:27 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.01774**	**.02821**	**1.006**
Stddev	.00152	.00029	.00007	.000
%RSD	242.10	1.6545	.25463	.0353
#1	-.00170	.01794	.02826	1.006
#2	.00045	.01753	.02815	1.006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2679.2**	**2364.6**	**22925.**	**3615.5**
Stddev	26.7	22.9	114.	14.1
%RSD	.99784	.96839	.49610	.39132
#1	2698.1	2380.8	23005.	3605.5
#2	2660.3	2348.4	22845.	3625.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.651%	92.106%	91.088%	100.89%
Range				

Sample Name: 480-198911-B-1-A Acquired: 6/15/2022 16:48:16 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.02491**	**.00302**	**.61422**	**.02885**
Stddev	.00040	.03485	.00106	.00012	.00000
%RSD	184.65	139.91	35.026	.01929	.01405
#1	-.00007	.04955	.00228	.61414	.02885
#2	.00050	.00027	.00377	.61430	.02885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**12.132**	**-.00001**	**.0084**	**.00006**
Stddev	.00005	.003	.00001	.0052	.00003
%RSD	77.793	.02481	59.340	61.97	39.502
#1	.00010	12.130	-.00002	.0120	.00005
#2	.00003	12.134	-.00001	.0047	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**-.00024**	**.34026**	**1.8291**	**.00811**
Stddev	.00030	.00050	.00393	.0008	.00077
%RSD	87.330	203.48	1.1551	.04540	9.5526
#1	.00055	-.00060	.34304	1.8285	.00756
#2	.00013	.00011	.33748	1.8297	.00866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198911-B-1-A Acquired: 6/15/2022 16:48:16 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.7683**	**.02168**	**.13128**	**77.522**	**.00021**
Stddev	.0014	.00001	.00049	.087	.00012
%RSD	.02520	.03975	.37565	.11272	58.361
#1	5.7694	.02169	.13163	77.460	.00012
#2	5.7673	.02168	.13093	77.584	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00108**	**.06882**	**.00170**	**-.00108**
Stddev	.00	.00006	.00527	.00029	.00313
%RSD	.0029	5.9844	7.6651	16.831	288.33
#1	25.03	.00103	.06509	.00150	.00113
#2	25.03	.00113	.07255	.00190	-.00330
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.7742**	**.00017**	**.36705**	**1.000**	**.00037**
Stddev	.0153	.00016	.00035	.002	.00022
%RSD	.32002	95.534	.09437	.1513	58.775
#1	4.7634	.00028	.36680	1.001	.00022
#2	4.7850	.00005	.36729	.9992	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198911-B-1-A Acquired: 6/15/2022 16:48:16 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00135**	**.00001**	**.00021**	**1.000**
Stddev	.00182	.00012	.00003	.000
%RSD	134.56	1519.7	16.021	.0353
#1	.00264	.00010	.00024	1.000
#2	.00007	-.00008	.00019	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2871.8**	**2431.2**	**23268.**	**3499.2**
Stddev	13.0	5.9	37.	7.8
%RSD	.45339	.24387	.15930	.22371
#1	2862.6	2427.0	23242.	3493.6
#2	2881.0	2435.4	23294.	3504.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.664%	94.701%	92.450%	97.648%
Range				

Sample Name: 480-198911-B-2-A Acquired: 6/15/2022 16:52:08 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**-.00310**	**.00062**	**.75640**	**.06401**
Stddev	.00094	.01215	.00051	.00042	.00004
%RSD	140.80	392.38	81.915	.05561	.06208
#1	-.00133	.00549	.00098	.75610	.06398
#2	-.00000	-.01169	.00026	.75669	.06404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**18.705**	**-.00002**	**.0384**	**-.00014**
Stddev	.00005	.072	.00002	.0351	.00019
%RSD	162.79	.38411	102.71	91.44	130.91
#1	-.00007	18.654	-.00001	.0136	-.00028
#2	.00000	18.756	-.00004	.0632	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.00074**	**.66938**	**1.8980**	**.00616**
Stddev	.00022	.00035	.00329	.0557	.00260
%RSD	104.61	47.257	.49123	2.9333	42.171
#1	.00006	.00049	.66706	1.8586	.00432
#2	.00037	.00098	.67171	1.9374	.00800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198911-B-2-A Acquired: 6/15/2022 16:52:08 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.1624**	**.02238**	**.06078**	**90.801**	**.00017**
Stddev	.0031	.00012	.00033	.020	.00005
%RSD	.03736	.52309	.54653	.02208	28.287
#1	8.1646	.02230	.06054	90.787	.00021
#2	8.1603	.02247	.06101	90.815	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**-.00037**	**1.4294**	**.00012**	**-.00057**
Stddev	.00	.00086	.0047	.00265	.00162
%RSD	.0046	231.28	.32756	2182.8	282.00
#1	25.03	-.00098	1.4327	.00199	.00057
#2	25.03	.00024	1.4261	-.00175	-.00172
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.5912**	**-.00019**	**.70196**	**.9980**	**-.00036**
Stddev	.0098	.00049	.00134	.0016	.00041
%RSD	.17462	261.80	.19106	.1603	113.35
#1	5.5843	.00016	.70101	.9968	-.00007
#2	5.5981	-.00054	.70291	.9991	-.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198911-B-2-A Acquired: 6/15/2022 16:52:08 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00114**	**-.00031**	**-.00002**	**1.000**
Stddev	.00058	.00046	.00025	.001
%RSD	51.509	150.74	1258.1	.0506
#1	-.00072	.00002	.00015	.9997
#2	-.00155	-.00063	-.00019	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2809.7**	**2392.8**	**23095.**	**3516.7**
Stddev	.3	.0	16.	24.4
%RSD	.00896	.00075	.06815	.69439
#1	2809.9	2392.8	23084.	3534.0
#2	2809.5	2392.8	23106.	3499.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.726%	93.206%	91.764%	98.138%
Range				

Sample Name: 480-198911-B-3-A Acquired: 6/15/2022 16:56:00 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**-.01171**	**.00247**	**.69119**	**.06638**
Stddev	.00064	.00177	.00145	.00121	.00004
%RSD	109.26	15.152	58.622	.17469	.06326
#1	-.00104	-.01296	.00144	.69034	.06635
#2	-.00013	-.01045	.00349	.69205	.06641
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**11.659**	**-.00005**	**.0159**	**-.00020**
Stddev	.00000	.083	.00001	.0045	.00008
%RSD	2.4121	.70970	29.149	28.54	39.494
#1	.00006	11.717	-.00004	.0191	-.00026
#2	.00006	11.600	-.00006	.0127	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**-.00085**	**.24299**	**1.3834**	**.00844**
Stddev	.00016	.00105	.00124	.0384	.00108
%RSD	71.060	122.73	.50951	2.7759	12.825
#1	.00011	-.00159	.24212	1.4106	.00768
#2	.00034	-.00011	.24387	1.3563	.00921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198911-B-3-A Acquired: 6/15/2022 16:56:00 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.3525**	**.00993**	**.12218**	**80.705**	**-.00027**
Stddev	.0073	.00007	.00053	.005	.00021
%RSD	.16897	.72510	.43703	.00572	75.861
#1	4.3473	.00988	.12180	80.702	-.00013
#2	4.3577	.00998	.12256	80.709	-.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00009**	**.02817**	**-.00001**	**.00171**
Stddev	.00	.00007	.00056	.00056	.00125
%RSD	.0016	74.127	1.9924	3904.0	72.858
#1	25.02	-.00014	.02856	-.00041	.00260
#2	25.02	-.00005	.02777	.00038	.00083
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.6603**	**.00010**	**.36097**	**1.004**	**.00014**
Stddev	.0100	.00037	.00124	.004	.00018
%RSD	.21516	349.35	.34371	.3486	128.28
#1	4.6674	-.00015	.36184	1.002	.00027
#2	4.6533	.00036	.36009	1.007	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198911-B-3-A Acquired: 6/15/2022 16:56:00 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00093**	**-.00041**	**.00017**	**.9999**
Stddev	.00027	.00011	.00026	.0007
%RSD	28.983	27.656	151.52	.0665
#1	.00074	-.00033	-.00001	1.000
#2	.00112	-.00049	.00036	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2845.9**	**2409.9**	**23165.**	**3498.4**
Stddev	.0	3.8	43.	36.6
%RSD	.00108	.15649	.18585	1.0455
#1	2845.9	2412.6	23196.	3472.5
#2	2845.9	2407.2	23135.	3524.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.855%	93.871%	92.043%	97.626%
Range				

Sample Name: 480-198911-B-4-A Acquired: 6/15/2022 16:59:52 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**-.01415**	**.00388**	**.73231**	**.05407**
Stddev	.00010	.03119	.00066	.00101	.00003
%RSD	13.258	220.37	17.069	.13751	.04691
#1	-.00070	-.03620	.00341	.73160	.05409
#2	-.00084	.00790	.00435	.73302	.05405
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**15.513**	**-.00013**	**.0283**	**-.00001**
Stddev	.00008	.049	.00010	.0421	.00001
%RSD	150.76	.31550	79.412	148.6	66.302
#1	.00011	15.478	-.00020	-.0014	-.00001
#2	-.00000	15.547	-.00006	.0581	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**-.00028**	**.41854**	**1.8043**	**.00697**
Stddev	.00009	.00006	.00085	.0001	.00127
%RSD	55.085	23.384	.20326	.00806	18.172
#1	.00021	-.00023	.41794	1.8042	.00787
#2	.00009	-.00032	.41914	1.8044	.00608
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198911-B-4-A Acquired: 6/15/2022 16:59:52 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.5941**	**.01674**	**.15875**	**91.685**	**.00036**
Stddev	.0112	.00004	.00060	.195	.00005
%RSD	.20015	.24140	.38033	.21214	14.745
#1	5.6021	.01677	.15918	91.822	.00040
#2	5.5862	.01671	.15833	91.547	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00031**	**.21025**	**-.00106**	**-.00037**
Stddev	.00	.00070	.00345	.00002	.00415
%RSD	.0005	229.76	1.6386	1.7997	1111.0
#1	25.03	.00080	.21268	-.00104	.00256
#2	25.03	-.00019	.20781	-.00107	-.00331
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8512**	**.00069**	**.42128**	**.9995**	**.00059**
Stddev	.0239	.00053	.00023	.0031	.00025
%RSD	.49169	76.330	.05456	.3139	42.038
#1	4.8681	.00032	.42144	1.002	.00041
#2	4.8343	.00107	.42112	.9973	.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198911-B-4-A Acquired: 6/15/2022 16:59:52 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00039**	**.00157**	**1.002**
Stddev	.00001	.00059	.00038	.001
%RSD	105.02	150.93	24.455	.0910
#1	.00000	.00003	.00185	1.003
#2	.00002	-.00081	.00130	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2844.6**	**2420.5**	**23432.**	**3522.3**
Stddev	3.7	5.2	75.	15.4
%RSD	.13168	.21283	.31865	.43748
#1	2847.2	2424.2	23379.	3533.1
#2	2841.9	2416.9	23485.	3511.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.814%	94.286%	93.103%	98.292%
Range				

Sample Name: 480-198911-B-5-A Acquired: 6/15/2022 17:03:44 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.02819**	**.00952**	**.62516**	**.05392**
Stddev	.00132	.00121	.00019	.00039	.00004
%RSD	209.66	4.2856	2.0394	.06214	.07302
#1	.00030	.02734	.00966	.62489	.05395
#2	-.00156	.02905	.00938	.62544	.05389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**16.099**	**.00006**	**.0338**	**.00002**
Stddev	.00011	.086	.00015	.0002	.00007
%RSD	695.60	.53524	266.61	.7196	300.39
#1	.00009	16.038	-.00005	.0339	.00007
#2	-.00006	16.160	.00017	.0336	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**-.00137**	**.81168**	**2.0407**	**.00480**
Stddev	.00026	.00045	.00313	.0622	.00070
%RSD	196.35	32.854	.38529	3.0489	14.674
#1	-.00032	-.00105	.80947	1.9967	.00430
#2	.00005	-.00169	.81390	2.0847	.00530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198911-B-5-A Acquired: 6/15/2022 17:03:44 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.1981**	**.02864**	**.18234**	**74.967**	**.00033**
Stddev	.0074	.00011	.00044	.588	.00001
%RSD	.11980	.36846	.23902	.78449	2.0907
#1	6.2034	.02857	.18203	74.551	.00033
#2	6.1929	.02872	.18264	75.382	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**-.00038**	**.11109**	**.00088**	**-.00225**
Stddev	.00	.00033	.00044	.00046	.00195
%RSD	.0011	86.614	.40012	52.184	86.711
#1	25.03	-.00015	.11077	.00055	-.00364
#2	25.03	-.00061	.11140	.00120	-.00087
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.4784**	**.00062**	**.42636**	**.9960**	**.00048**
Stddev	.0426	.00002	.00136	.0067	.00019
%RSD	.77764	2.4856	.31994	.6762	38.994
#1	5.4483	.00063	.42539	1.001	.00061
#2	5.5085	.00061	.42732	.9912	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198911-B-5-A Acquired: 6/15/2022 17:03:44 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00074**	**-.00056**	**.00087**	**.9994**
Stddev	.00007	.00016	.00007	.0006
%RSD	10.174	27.708	8.2832	.0563
#1	-.00068	-.00045	.00092	.9990
#2	-.00079	-.00067	.00082	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2875.7**	**2431.6**	**23576.**	**3582.7**
Stddev	4.2	3.0	3.	16.8
%RSD	.14508	.12136	.01214	.46887
#1	2872.8	2429.6	23578.	3594.6
#2	2878.7	2433.7	23574.	3570.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.786%	94.718%	93.674%	99.979%
Range				

Sample Name: 480-198911-B-6-A Acquired: 6/15/2022 17:07:35 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.02123**	**.00044**	**.72116**	**.06996**
Stddev	.00009	.00303	.00073	.00072	.00006
%RSD	61.963	14.251	167.51	.09989	.07953
#1	-.00009	-.01909	-.00008	.72167	.07000
#2	-.00022	-.02337	.00096	.72065	.06992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**12.193**	**-.00001**	**.0097**	**-.00007**
Stddev	.00003	.022	.00021	.0034	.00018
%RSD	44.452	.17685	3418.8	34.93	241.42
#1	.00004	12.178	-.00016	.0121	-.00020
#2	.00008	12.208	.00014	.0073	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.00018**	**.25851**	**1.4496**	**.00908**
Stddev	.00051	.00015	.00079	.0286	.00038
%RSD	135.85	82.819	.30550	1.9761	4.2200
#1	.00001	.00008	.25907	1.4699	.00935
#2	.00074	.00029	.25795	1.4293	.00881
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198911-B-6-A Acquired: 6/15/2022 17:07:35 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5335**	**.01038**	**.12849**	**84.277**	**.00006**
Stddev	.0010	.00021	.00016	.692	.00005
%RSD	.02263	2.0399	.12774	.82068	82.697
#1	4.5342	.01053	.12838	83.788	.00002
#2	4.5327	.01023	.12861	84.766	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00027**	**.03120**	**.00018**	**-.00236**
Stddev	.00	.00071	.00215	.00072	.00049
%RSD	.0012	267.75	6.9020	399.84	20.665
#1	25.02	.00077	.03272	.00069	-.00201
#2	25.02	-.00024	.02968	-.00033	-.00270
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8912**	**-.00016**	**.37822**	**1.004**	**-.00068**
Stddev	.0119	.00014	.00186	.002	.00022
%RSD	.24341	87.112	.49205	.2241	32.844
#1	4.8828	-.00025	.37690	1.002	-.00052
#2	4.8996	-.00006	.37953	1.005	-.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198911-B-6-A Acquired: 6/15/2022 17:07:35 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00007**	**.00007**	**1.001**
Stddev	.00054	.00007	.00027	.000
%RSD	1207.2	93.692	366.57	.0266
#1	-.00034	-.00003	-.00012	1.001
#2	.00043	-.00012	.00026	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2852.8**	**2419.2**	**23456.**	**3552.9**
Stddev	5.3	1.3	56.	20.2
%RSD	.18510	.05333	.24077	.56847
#1	2856.5	2420.1	23496.	3567.2
#2	2849.0	2418.3	23416.	3538.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.070%	94.233%	93.198%	99.147%
Range				

Sample Name: 480-198911-B-7-A Acquired: 6/15/2022 17:11:27 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00061**	**-.00931**	**.00042**	**.68174**	**.04277**
Stddev	.00057	.02409	.00051	.00196	.00010
%RSD	93.111	258.94	122.45	.28718	.23041
#1	-.00102	.00773	.00078	.68312	.04284
#2	-.00021	-.02634	.00006	.68035	.04270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**9.2332**	**-.00008**	**.0337**	**-.00014**
Stddev	.00004	.0154	.00008	.0158	.00005
%RSD	168.28	.16711	103.64	46.95	34.916
#1	.00005	9.2223	-.00002	.0225	-.00017
#2	-.00000	9.2442	-.00013	.0449	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00043**	**.08019**	**1.3575**	**.00531**
Stddev	.00038	.00032	.00193	.0064	.00133
%RSD	762.22	74.740	2.4109	.47070	25.147
#1	.00032	-.00065	.08156	1.3620	.00625
#2	-.00022	-.00020	.07882	1.3530	.00436
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198911-B-7-A Acquired: 6/15/2022 17:11:27 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.4681**	**.01051**	**.14893**	**75.046**	**-.00008**
Stddev	.0045	.00009	.00027	.052	.00000
%RSD	.13039	.85112	.18053	.06959	.33710
#1	3.4713	.01045	.14912	75.083	-.00008
#2	3.4649	.01058	.14874	75.009	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00006**	**.22020**	**-.00165**	**-.00144**
Stddev	.00	.00072	.00054	.00037	.00293
%RSD	.0005	1182.7	.24645	22.202	204.40
#1	25.03	.00057	.22059	-.00191	-.00351
#2	25.03	-.00045	.21982	-.00139	.00064
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.8018**	**.00063**	**.27382**	**1.003**	**-.00020**
Stddev	.0212	.00042	.00053	.009	.00027
%RSD	.36608	65.745	.19233	.8502	137.31
#1	5.7868	.00093	.27345	.9968	-.00001
#2	5.8168	.00034	.27419	1.009	-.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198911-B-7-A Acquired: 6/15/2022 17:11:27 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.00064**	**.00003**	**1.001**
Stddev	.00074	.00006	.00021	.001
%RSD	352.90	9.8089	826.18	.0466
#1	-.00031	-.00068	.00017	1.001
#2	.00074	-.00059	-.00012	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2863.5**	**2419.1**	**23270.**	**3531.7**
Stddev	6.0	2.7	85.	3.2
%RSD	.20964	.11027	.36349	.09005
#1	2867.8	2421.0	23210.	3529.5
#2	2859.3	2417.2	23330.	3534.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.405%	94.231%	92.458%	98.556%
Range				

Sample Name: 480-198438-C-2-B@2 Acquired: 6/15/2022 17:15:17 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00222**	**26.651**	**.02560**	**.02441**	**.31461**
Stddev	.00023	.106	.00056	.00020	.00040
%RSD	10.452	.39838	2.1719	.79926	.12749
#1	.00206	26.576	.02600	.02454	.31489
#2	.00239	26.726	.02521	.02427	.31433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00785**	**54.421**	**.00615**	**.2400**	**.00450**
Stddev	.00005	.152	.00012	.0076	.00012
%RSD	.60054	.28020	2.0046	3.172	2.5600
#1	.00781	54.313	.00624	.2346	.00442
#2	.00788	54.528	.00607	.2453	.00458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03011**	**.09392**	**9.3944**	**2.7040**	**.02662**
Stddev	.00028	.00037	.0600	.0369	.00060
%RSD	.91697	.39224	.63884	1.3641	2.2411
#1	.02991	.09366	9.3519	2.6779	.02620
#2	.03030	.09418	9.4368	2.7301	.02705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198438-C-2-B@2 Acquired: 6/15/2022 17:15:17 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.7366**	**.10694**	**.00589**	**58.333**	**.12251**
Stddev	.0410	.00025	.00010	.130	.00024
%RSD	.71516	.23429	1.7186	.22235	.19492
#1	5.7656	.10712	.00597	58.242	.12268
#2	5.7076	.10676	.00582	58.425	.12235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.18**	**.52979**	**18.420**	**.00166**	**.00878**
Stddev	.00	.00103	.006	.00140	.00053
%RSD	.0067	.19458	.03425	84.513	5.9834
#1	27.18	.53052	18.424	.00067	.00841
#2	27.18	.52906	18.415	.00265	.00916
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.245**	**.00664**	**.35186**	**1.003**	**.59533**
Stddev	.081	.00001	.00094	.003	.00190
%RSD	.60779	.18372	.26850	.2617	.31843
#1	13.188	.00663	.35119	1.004	.59399
#2	13.302	.00665	.35253	1.001	.59667
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198438-C-2-B@2 Acquired: 6/15/2022 17:15:17 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00225**	**.05508**	**.36089**	**1.002**
Stddev	.00150	.00009	.00118	.000
%RSD	66.846	.16201	.32581	.0406
#1	-.00331	.05502	.36172	1.002
#2	-.00119	.05515	.36006	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2748.5**	**3536.2**	**34149.**	**5295.9**
Stddev	6.3	5.4	145.	21.3
%RSD	.22938	.15312	.42467	.40206
#1	2752.9	3540.0	34047.	5310.9
#2	2744.0	3532.4	34252.	5280.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.814%	137.74%	135.69%	147.79%
Range				

Sample Name: CCV-7032336 Acquired: 6/15/2022 17:19:07 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0259**	**49.827**	**1.0167**	**1.0449**	**1.0074**
Stddev	.0010	.177	.0015	.0002	.0041
%RSD	.09899	.35606	.14588	.01802	.40472
#1	1.0252	49.952	1.0177	1.0448	1.0103
#2	1.0266	49.702	1.0156	1.0450	1.0045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99106**	**49.375**	**1.0160**	**.9780**	**.99769**
Stddev	.00290	.136	.0000	.0294	.00030
%RSD	.29230	.27539	.00365	3.011	.02966
#1	.99311	49.471	1.0160	.9988	.99790
#2	.98901	49.279	1.0160	.9572	.99748
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0229**	**1.0159**	**50.481**	**48.678**	**.98630**
Stddev	.0012	.0012	.249	.178	.00084
%RSD	.11496	.11609	.49300	.36506	.08546
#1	1.0237	1.0168	50.657	48.804	.98690
#2	1.0221	1.0151	50.305	48.553	.98570
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 17:19:07 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.874**	**1.0183**	**1.0220**	**49.499**	**1.0016**
Stddev	.063	.0011	.0000	.106	.0000
%RSD	.12398	.10745	.00114	.21471	.00099
#1	50.829	1.0175	1.0220	49.574	1.0016
#2	50.918	1.0190	1.0220	49.424	1.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.85**	**1.0001**	**25.451**	**1.0185**	**1.0276**
Stddev	.01	.0002	.039	.0010	.0039
%RSD	.0303	.02149	.15295	.09315	.37884
#1	37.84	1.0003	25.423	1.0191	1.0248
#2	37.85	.99999	25.478	1.0178	1.0303
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8884**	**.99077**	**1.0094**	**1.505**	**1.0219**
Stddev	.0286	.00103	.0039	.001	.0019
%RSD	.28952	.10406	.38369	.0831	.19100
#1	9.8681	.99004	1.0122	1.506	1.0206
#2	9.9086	.99150	1.0067	1.504	1.0233
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 17:19:07 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0122**	**1.0182**	**1.0223**	**1.499**
Stddev	.0048	.0013	.0042	.002
%RSD	.46995	.12749	.40576	.1591
#1	1.0089	1.0173	1.0193	1.501
#2	1.0156	1.0192	1.0252	1.498
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2689.2**	**2393.2**	**22833.**	**3438.7**
Stddev	.4	.4	28.	4.1
%RSD	.01569	.01697	.12395	.11906
#1	2689.5	2393.5	22853.	3441.6
#2	2688.9	2392.9	22813.	3435.8

Sample Name: CCB-7026764 Acquired: 6/15/2022 17:22:48 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.02902**	**.00083**	**.00265**	**.00006**
Stddev	.00024	.02693	.00006	.00023	.00001
%RSD	167.21	92.784	7.0679	8.8093	15.598
#1	.00003	-.00998	.00079	.00249	.00007
#2	-.00032	-.04806	.00087	.00282	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**-.00197**	**.00003**	**.0133**	**.00002**
Stddev	.00007	.00370	.00010	.0244	.00002
%RSD	31.977	187.67	316.88	183.0	98.425
#1	.00028	.00065	-.00004	.0305	.00003
#2	.00018	-.00459	.00010	-.0039	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00020**	**.00197**	**.03803**	**-.00155**
Stddev	.00011	.00024	.00008	.00291	.00014
%RSD	80.226	123.12	4.0398	7.6444	9.1460
#1	-.00022	-.00037	.00192	.04009	-.00165
#2	-.00006	-.00003	.00203	.03597	-.00145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 17:22:48 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00173**	**-.00012**	**.00024**	**.02853**	**-.00017**
Stddev	.00009	.00005	.00034	.00027	.00019
%RSD	5.1082	41.610	137.63	.96375	109.45
#1	.00166	-.00008	.00001	.02833	-.00030
#2	.00179	-.00015	.00048	.02872	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00164**	**.00413**	**.00081**	**-.00207**
Stddev	.00	.00102	.00087	.00155	.00246
%RSD	.0069	62.473	21.095	191.66	119.27
#1	25.02	-.00091	.00474	-.00029	-.00032
#2	25.02	-.00236	.00351	.00190	-.00381
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00861**	**.00003**	**.00006**	**.9969**	**-.00007**
Stddev	.00251	.00031	.00016	.0014	.00017
%RSD	29.174	999.93	276.78	.1429	260.87
#1	-.00684	.00025	.00017	.9958	.00006
#2	-.01039	-.00019	-.00006	.9979	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 17:22:48 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00042**	**-.00009**	**-.00131**	**.9998**
Stddev	.00081	.00052	.00004	.0002
%RSD	191.59	558.68	2.9127	.0215
#1	-.00015	-.00046	-.00133	.9996
#2	.00099	.00027	-.00128	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3145.0**	**2507.9**	**24719.**	**3578.3**
Stddev	5.6	1.3	80.	19.0
%RSD	.17939	.05057	.32164	.53162
#1	3141.0	2507.0	24663.	3591.8
#2	3149.0	2508.8	24776.	3564.8

Sample Name: CCVL-7028546 Acquired: 6/15/2022 17:26:47 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00630**	**.20586**	**.01454**	**.02120**	**.00215**
Stddev	.00068	.02133	.00143	.00013	.00001
%RSD	10.754	10.363	9.8375	.61230	.65148
#1	.00582	.19077	.01353	.02111	.00214
#2	.00678	.22094	.01555	.02130	.00216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**.49459**	**.00194**	**.0295**	**.00378**
Stddev	.00012	.00105	.00007	.0183	.00009
%RSD	5.9063	.21241	3.8354	61.79	2.2622
#1	.00218	.49385	.00199	.0166	.00372
#2	.00201	.49534	.00189	.0425	.00384
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00416**	**.01028**	**.04846**	**.49248**	**.02641**
Stddev	.00044	.00023	.00111	.00798	.00101
%RSD	10.662	2.2295	2.2881	1.6202	3.8303
#1	.00384	.01011	.04924	.48683	.02570
#2	.00447	.01044	.04767	.49812	.02713
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/15/2022 17:26:47 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20131**	**.00325**	**.01006**	**.95056**	**.00959**
Stddev	.00036	.00013	.00025	.01128	.00027
%RSD	.17900	3.8832	2.5297	1.1865	2.8383
#1	.20106	.00316	.01024	.94259	.00979
#2	.20157	.00333	.00988	.95854	.00940
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00842**	**.19381**	**.02006**	**.02423**
Stddev	.00	.00092	.00044	.00118	.00166
%RSD	.0030	10.940	.22803	5.8938	6.8480
#1	25.00	.00907	.19412	.01923	.02540
#2	25.00	.00777	.19350	.02090	.02305
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45829**	**.00917**	**.00499**	F **1.003**	**.00473**
Stddev	.00575	.00005	.00003	.010	.00080
%RSD	1.2549	.54327	.65738	1.001	16.909
#1	.46235	.00913	.00497	1.010	.00529
#2	.45422	.00920	.00501	.9960	.00416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/15/2022 17:26:47 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01983**	**.00477**	**.01016**	F **1.000**
Stddev	.00085	.00051	.00033	.000
%RSD	4.2972	10.592	3.2631	.0423
#1	.02044	.00513	.01040	.9999
#2	.01923	.00441	.00993	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3113.4**	**2484.5**	**24344.**	**3484.7**
Stddev	1.7	1.0	16.	28.1
%RSD	.05581	.03984	.06601	.80679
#1	3112.1	2483.8	24356.	3504.5
#2	3114.6	2485.2	24333.	3464.8

Sample Name: 480-198438-C-2-B@5 Acquired: 6/15/2022 17:30:41 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00171**	**14.324**	**.01472**	**.01317**	**.16913**
Stddev	.00015	.102	.00125	.00009	.00035
%RSD	8.6927	.71204	8.4618	.71250	.20506
#1	.00181	14.252	.01384	.01324	.16938
#2	.00160	14.396	.01560	.01310	.16889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00439**	**29.292**	**.00328**	**.1254**	**.00178**
Stddev	.00010	.108	.00004	.0163	.00005
%RSD	2.2856	.36724	1.1478	13.02	2.9730
#1	.00432	29.216	.00325	.1370	.00182
#2	.00447	29.368	.00331	.1139	.00174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01671**	**.04983**	**5.1260**	**1.3790**	**.01254**
Stddev	.00003	.00077	.0118	.0508	.00012
%RSD	.18120	1.5376	.23035	3.6870	.97879
#1	.01669	.05037	5.1177	1.3430	.01245
#2	.01673	.04929	5.1344	1.4150	.01263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198438-C-2-B@5 Acquired: 6/15/2022 17:30:41 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1003**	**.05789**	**.00325**	**29.870**	**.05341**
Stddev	.0020	.00010	.00013	.102	.00015
%RSD	.06541	.16770	4.1061	.34211	.28327
#1	3.1018	.05796	.00334	29.798	.05331
#2	3.0989	.05782	.00315	29.942	.05352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.14**	**.23029**	**9.6456**	**.00163**	**.00434**
Stddev	.00	.00033	.0051	.00018	.00003
%RSD	.0052	.14406	.05247	11.167	.74581
#1	26.14	.23053	9.6420	.00175	.00436
#2	26.14	.23006	9.6492	.00150	.00432
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.0242**	**.00303**	**.19007**	**1.001**	**.31666**
Stddev	.0024	.00050	.00062	.002	.00017
%RSD	.03426	16.544	.32371	.1919	.05410
#1	7.0225	.00267	.18964	1.003	.31678
#2	7.0259	.00338	.19051	1.0000	.31654
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198438-C-2-B@5 Acquired: 6/15/2022 17:30:41 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00156**	**.02962**	**.19394**	**1.002**
Stddev	.00071	.00010	.00191	.001
%RSD	45.315	.35413	.98438	.0722
#1	-.00207	.02954	.19529	1.003
#2	-.00106	.02969	.19259	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2857.4**	**2923.4**	**28483.**	**4281.9**
Stddev	1.9	.1	43.	31.9
%RSD	.06761	.00271	.15236	.74400
#1	2858.8	2923.3	28452.	4304.4
#2	2856.0	2923.4	28514.	4259.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.215%	113.87%	113.17%	119.49%
Range				

Sample Name: 480-198438-C-2-B@10 Acquired: 6/15/2022 17:34:29 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**7.8980**	**.00743**	**.00743**	**.09184**
Stddev	.00023	.0468	.00038	.00014	.00004
%RSD	43.198	.59207	5.1650	1.9495	.04585
#1	.00069	7.9311	.00716	.00753	.09181
#2	.00037	7.8650	.00770	.00733	.09187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00251**	**16.140**	**.00182**	**.0938**	**.00069**
Stddev	.00011	.012	.00001	.0369	.00005
%RSD	4.1980	.07646	.74778	39.35	6.5925
#1	.00243	16.132	.00181	.0677	.00072
#2	.00258	16.149	.00183	.1199	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00908**	**.02745**	**2.8158**	**.78895**	**.00535**
Stddev	.00025	.00013	.0010	.01861	.00033
%RSD	2.7873	.48190	.03541	2.3583	6.0950
#1	.00926	.02735	2.8166	.80211	.00558
#2	.00890	.02754	2.8151	.77579	.00512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198438-C-2-B@10 Acquired: 6/15/2022 17:34:29 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.7021**	**.03197**	**.00176**	**16.161**	**.02630**
Stddev	.0034	.00005	.00035	.026	.00017
%RSD	.20291	.15536	19.975	.15903	.65729
#1	1.6997	.03194	.00151	16.179	.02618
#2	1.7046	.03201	.00201	16.143	.02642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.63**	**.11464**	**5.2143**	**-.00061**	**.00389**
Stddev	.00	.00108	.0163	.00112	.00329
%RSD	.0092	.93959	.31325	184.87	84.519
#1	25.63	.11540	5.2259	.00019	.00621
#2	25.62	.11388	5.2028	-.00140	.00156
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.8331**	**.00145**	**.10478**	**1.002**	**.17112**
Stddev	.0356	.00036	.00007	.001	.00030
%RSD	.92925	24.998	.06630	.1255	.17294
#1	3.8583	.00119	.10482	1.001	.17133
#2	3.8080	.00171	.10473	1.003	.17091
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198438-C-2-B@10 Acquired: 6/15/2022 17:34:29 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.01624**	**.10581**	**1.001**
Stddev	.00025	.00016	.00038	.001
%RSD	100.29	1.0005	.35726	.0749
#1	-.00007	.01613	.10554	1.000
#2	-.00042	.01636	.10608	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2947.7**	**2698.9**	**26280.**	**3831.2**
Stddev	1.3	5.7	109.	10.8
%RSD	.04402	.21239	.41395	.28272
#1	2946.7	2694.8	26203.	3823.6
#2	2948.6	2702.9	26357.	3838.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.033%	105.13%	104.42%	106.91%
Range				

Sample Name: MB 480-629851/1-A Acquired: 6/15/2022 17:38:19 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00972**	**.00118**	**.00383**	**.00010**
Stddev	.00013	.01140	.00013	.00002	.00000
%RSD	106.26	117.29	11.008	.52215	3.5129
#1	.00022	-.01778	.00127	.00384	.00010
#2	.00003	-.00166	.00109	.00381	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.02621**	**.00009**	**.0540**	**-.00006**
Stddev	.00001	.00088	.00010	.0326	.00007
%RSD	10.796	3.3629	111.49	60.37	105.68
#1	.00007	.02684	.00002	.0309	-.00011
#2	.00008	.02559	.00016	.0770	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00047**	**.00415**	**-.02088**	**-.00138**
Stddev	.00028	.00155	.00181	.01850	.00137
%RSD	239.13	326.36	43.669	88.630	99.337
#1	.00008	.00157	.00287	-.03396	-.00041
#2	-.00032	-.00062	.00543	-.00779	-.00235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629851/1-A Acquired: 6/15/2022 17:38:19 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00490**	**.00023**	**-.00005**	**.06482**	**.00022**
Stddev	.00124	.00004	.00012	.01336	.00010
%RSD	25.381	18.125	227.29	20.610	43.498
#1	.00578	.00026	-.00014	.05538	.00015
#2	.00402	.00020	.00003	.07427	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00101**	**.01361**	**-.00080**	**.00085**
Stddev	.00	.00048	.00071	.00301	.00337
%RSD	.0003	47.270	5.2421	374.70	398.25
#1	25.02	-.00134	.01412	-.00294	-.00154
#2	25.02	-.00067	.01311	.00133	.00323
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00980**	**.00028**	**.00002**	**.9962**	**.00016**
Stddev	.02243	.00027	.00001	.0013	.00003
%RSD	228.93	97.329	66.121	.1307	16.953
#1	.02566	.00046	.00003	.9953	.00014
#2	-.00606	.00009	.00001	.9971	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629851/1-A Acquired: 6/15/2022 17:38:19 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00034**	**-.00006**	**.00056**	**.9996**
Stddev	.00161	.00049	.00008	.0005
%RSD	478.47	820.29	14.738	.0496
#1	.00080	.00029	.00050	.9999
#2	-.00147	-.00041	.00062	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3104.9**	**2465.2**	**24112.**	**3463.7**
Stddev	1.5	2.8	12.	28.7
%RSD	.04703	.11279	.04866	.82967
#1	3105.9	2467.1	24120.	3484.0
#2	3103.8	2463.2	24104.	3443.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.941%	96.024%	95.804%	96.659%
Range				

Sample Name: LCS 480-629851/2-A Acquired: 6/15/2022 17:42:14 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04835**	**9.7251**	**.20135**	**.20109**	**.20807**
Stddev	.00040	.0578	.00107	.00015	.00077
%RSD	.81868	.59464	.53355	.07227	.36841
#1	.04863	9.6842	.20211	.20119	.20861
#2	.04807	9.7660	.20059	.20098	.20753
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19972**	**9.6093**	**.19683**	**.0164**	**.19294**
Stddev	.00128	.0584	.00019	.0103	.00030
%RSD	.64104	.60730	.09588	62.42	.15408
#1	.19882	9.5680	.19670	.0237	.19315
#2	.20063	9.6506	.19697	.0092	.19273
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19942**	**.19753**	**9.9004**	**8.9917**	**.18407**
Stddev	.00023	.00099	.0563	.0582	.00029
%RSD	.11319	.50260	.56848	.64671	.15988
#1	.19926	.19823	9.8606	8.9506	.18386
#2	.19958	.19683	9.9402	9.0328	.18427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629851/2-A Acquired: 6/15/2022 17:42:14 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.204**	**.19836**	**.20467**	**9.2143**	**.18876**
Stddev	.014	.00060	.00005	.0632	.00051
%RSD	.13789	.30217	.02656	.68627	.27094
#1	10.213	.19879	.20471	9.1696	.18913
#2	10.194	.19794	.20463	9.2591	.18840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.73**	**.19121**	**9.7506**	**.20313**	**.19661**
Stddev	.00	.00036	.0158	.00102	.00298
%RSD	.0012	.18601	.16158	.50014	1.5145
#1	24.73	.19146	9.7395	.20241	.19450
#2	24.73	.19095	9.7617	.20385	.19872
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2261**	F **.23205**	**.19929**	**1.005**	**.20010**
Stddev	.1148	.00039	.00106	.005	.00019
%RSD	1.2442	.16964	.53334	.5195	.09611
#1	9.1449	.23177	.19854	1.009	.20024
#2	9.3072	.23233	.20004	1.002	.19996
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: LCS 480-629851/2-A Acquired: 6/15/2022 17:42:14 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19662**	**.19580**	**.19820**	**1.001**
Stddev	.00170	.00093	.00145	.000
%RSD	.86302	.47349	.72980	.0020
#1	.19782	.19646	.19922	1.001
#2	.19542	.19515	.19717	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2920.5**	**2420.4**	**23478.**	**3456.6**
Stddev	7.6	7.1	9.	24.9
%RSD	.26189	.29353	.04003	.72005
#1	2915.1	2415.4	23485.	3474.2
#2	2926.0	2425.5	23472.	3439.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.187%	94.281%	93.286%	96.461%
Range				

Sample Name: 480-198898-N-1-A Acquired: 6/15/2022 17:45:57 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00084**	**.06185**	**.00230**	**.05630**	**.03737**
Stddev	.00090	.03023	.00196	.00023	.00006
%RSD	107.45	48.882	85.368	.40634	.15779
#1	.00020	.04047	.00091	.05614	.03741
#2	.00148	.08322	.00369	.05647	.03732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**163.48**	**.00060**	**.0340**	**.00043**
Stddev	.00002	.04	.00005	.0471	.00004
%RSD	15.995	.02554	8.6615	138.6	10.246
#1	.00015	163.50	.00063	.0007	.00040
#2	.00012	163.45	.00056	.0673	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00120**	**.00457**	**.16160**	**3.7451**	**.00679**
Stddev	.00047	.00035	.00079	.0246	.00046
%RSD	39.234	7.7565	.48834	.65673	6.7766
#1	.00087	.00432	.16216	3.7277	.00647
#2	.00153	.00482	.16105	3.7625	.00712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198898-N-1-A Acquired: 6/15/2022 17:45:57 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**78.162**	**.02612**	**.00274**	**10.997**	**.00265**
Stddev	.116	.00007	.00010	.021	.00033
%RSD	.14852	.28676	3.7446	.18720	12.339
#1	78.244	.02607	.00282	11.011	.00288
#2	78.080	.02617	.00267	10.982	.00242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00146**	F **129.30**	**.00002**	**.00257**
Stddev	.00	.00030	.02	.00130	.00027
%RSD	.0059	20.674	.01536	7623.3	10.387
#1	25.03	.00125	129.31	-.00090	.00238
#2	25.02	.00167	129.28	.00094	.00275
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.1690**	**.00001**	**.42607**	**.9997**	**.00292**
Stddev	.0287	.00001	.00006	.0066	.00026
%RSD	.68831	76.385	.01426	.6584	9.0384
#1	4.1487	.00000	.42611	.9951	.00310
#2	4.1893	.00001	.42603	1.004	.00273
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198898-N-1-A Acquired: 6/15/2022 17:45:57 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00094**	**-.00066**	**.01933**	**1.001**
Stddev	.00038	.00034	.00023	.001
%RSD	40.674	52.639	1.1935	.0867
#1	-.00121	-.00041	.01950	1.002
#2	-.00067	-.00090	.01917	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2724.7**	**2317.0**	**22568.**	**3425.3**
Stddev	2.4	1.4	74.	1.5
%RSD	.08690	.05971	.32732	.04468
#1	2726.3	2318.0	22620.	3424.2
#2	2723.0	2316.1	22515.	3426.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.070%	90.254%	89.668%	95.585%
Range				

Sample Name: 480-198898-N-1-ASD@5 Acquired: 6/15/2022 17:49:49 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**.01422**	**.00202**	**.01097**	**.00751**
Stddev	.00031	.01865	.00010	.00002	.00001
%RSD	33.284	131.10	4.8566	.17869	.18456
#1	-.00072	.00104	.00209	.01095	.00750
#2	-.00116	.02741	.00195	.01098	.00752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**31.792**	**.00021**	**.0406**	**.00012**
Stddev	.00004	.063	.00012	.0031	.00000
%RSD	55.797	.19878	56.881	7.630	3.4336
#1	.00011	31.747	.00029	.0384	.00013
#2	.00005	31.837	.00012	.0428	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00078**	**.03294**	**.71277**	**.00025**
Stddev	.00068	.00068	.00174	.04586	.00173
%RSD	260.24	87.974	5.2918	6.4344	681.95
#1	-.00022	.00126	.03170	.68034	.00147
#2	.00075	.00029	.03417	.74520	-.00097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198898-N-1-ASD@5 Acquired: 6/15/2022 17:49:49 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.688**	**.00514**	**.00057**	**2.1249**	**.00055**
Stddev	.093	.00011	.00003	.0039	.00015
%RSD	.63375	2.1719	5.8753	.18307	27.435
#1	14.622	.00506	.00054	2.1221	.00044
#2	14.753	.00521	.00059	2.1276	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00019**	**24.027**	**.00054**	**-.00295**
Stddev	.00	.00153	.036	.00073	.00153
%RSD	.0018	801.42	.14880	135.89	51.737
#1	25.02	.00089	24.002	.00105	-.00403
#2	25.02	-.00127	24.053	.00002	-.00187
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.81484**	**.00019**	**.08430**	**1.000**	**.00058**
Stddev	.01646	.00005	.00018	.003	.00038
%RSD	2.0198	24.339	.21354	.3288	65.775
#1	.80321	.00016	.08417	1.003	.00031
#2	.82648	.00022	.08442	.9981	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198898-N-1-ASD@5 Acquired: 6/15/2022 17:49:49 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00025**	**-.00041**	**.00284**	**1.001**
Stddev	.00063	.00013	.00026	.001
%RSD	251.65	30.820	9.2320	.0463
#1	-.00069	-.00050	.00265	1.001
#2	.00019	-.00032	.00302	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2970.5**	**2429.5**	**23723.**	**3493.1**
Stddev	.7	.8	123.	29.7
%RSD	.02290	.03355	.52036	.84959
#1	2971.0	2430.0	23810.	3514.1
#2	2970.0	2428.9	23635.	3472.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.747%	94.633%	94.257%	97.480%
Range				

Sample Name: 480-198898-N-1-APDS Acquired: 6/15/2022 17:53:42 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04278**	**8.4001**	**.17805**	**.21475**	**.20160**
Stddev	.00015	.0388	.00178	.00023	.00102
%RSD	.35342	.46205	.99794	.10813	.50461
#1	.04267	8.4276	.17930	.21459	.20088
#2	.04288	8.3727	.17679	.21492	.20232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.16981**	**133.44**	**.17160**	**.0234**	**.20721**
Stddev	.00011	.09	.00037	.0472	.00000
%RSD	.06615	.07084	.21571	202.0	.00105
#1	.16989	133.38	.17134	-.0100	.20721
#2	.16973	133.51	.17187	.0568	.20721
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17285**	**.17644**	**8.3907**	**11.236**	**.17058**
Stddev	.00033	.00149	.0143	.022	.00094
%RSD	.19044	.84322	.17050	.19247	.55184
#1	.17308	.17539	8.4008	11.251	.17125
#2	.17262	.17750	8.3806	11.220	.16991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198898-N-1-APDS Acquired: 6/15/2022 17:53:42 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**68.703**	**.19195**	**.17788**	**16.808**	**.20452**
Stddev	.315	.00022	.00016	.013	.00031
%RSD	.45917	.11673	.09160	.07632	.14947
#1	68.480	.19179	.17799	16.799	.20431
#2	68.927	.19210	.17776	16.817	.20474
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.78**	**.20825**	F **108.12**	**.18050**	**.17556**
Stddev	.00	.00088	.01	.00123	.00182
%RSD	.0025	.42470	.00703	.67981	1.0376
#1	24.78	.20763	108.12	.17963	.17685
#2	24.78	.20888	108.11	.18137	.17427
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.467**	**.20777**	**.49883**	**1.005**	**.17315**
Stddev	.061	.00002	.00075	.002	.00064
%RSD	.52854	.00924	.14968	.1673	.36969
#1	11.424	.20778	.49935	1.006	.17361
#2	11.509	.20775	.49830	1.004	.17270
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198898-N-1-APDS Acquired: 6/15/2022 17:53:42 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21387**	**.17064**	**.17810**	**1.001**
Stddev	.00013	.00035	.00061	.000
%RSD	.06167	.20512	.34195	.0036
#1	.21397	.17088	.17767	1.001
#2	.21378	.17039	.17853	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2664.3**	**2894.7**	**28281.**	**4313.0**
Stddev	4.5	2.9	50.	19.1
%RSD	.17017	.09890	.17647	.44190
#1	2667.5	2896.7	28316.	4326.5
#2	2661.1	2892.7	28245.	4299.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.185%	112.76%	112.37%	120.36%
Range				

Sample Name: 480-198898-N-1-B MS Acquired: 6/15/2022 17:57:24 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04867**	**9.8621**	**.20709**	**.25372**	**.24183**
Stddev	.00061	.0689	.00024	.00121	.00048
%RSD	1.2593	.69879	.11624	.47572	.19680
#1	.04824	9.9108	.20726	.25458	.24217
#2	.04911	9.8134	.20692	.25287	.24149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19868**	**170.75**	**.20015**	**-.0043**	**.19296**
Stddev	.00014	.82	.00006	.0232	.00022
%RSD	.06941	.48048	.02873	539.5	.11306
#1	.19878	171.33	.20019	-.0207	.19281
#2	.19859	170.17	.20011	.0121	.19312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19941**	**.20675**	**9.9153**	**13.517**	**.20111**
Stddev	.00026	.00011	.0340	.029	.00028
%RSD	.12818	.05180	.34299	.21348	.13851
#1	.19923	.20682	9.9393	13.537	.20130
#2	.19959	.20667	9.8913	13.496	.20091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198898-N-1-B MS Acquired: 6/15/2022 17:57:24 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**87.471**	**.22187**	**.20876**	**20.904**	**.19074**
Stddev	.192	.00082	.00017	.053	.00047
%RSD	.21954	.36926	.08380	.25408	.24476
#1	87.607	.22245	.20864	20.942	.19107
#2	87.335	.22129	.20888	20.867	.19041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.75**	**.19420**	F **137.61**	**.20961**	**.20131**
Stddev	.00	.00234	.12	.00111	.00551
%RSD	.0044	1.2057	.08988	.52758	2.7391
#1	24.75	.19586	137.52	.20883	.19741
#2	24.75	.19255	137.70	.21039	.20521
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.666**	**.23546**	**.62182**	**.9974**	**.20346**
Stddev	.102	.00014	.00044	.0025	.00041
%RSD	.87767	.06075	.07112	.2466	.20074
#1	11.739	.23556	.62213	.9992	.20375
#2	11.594	.23536	.62150	.9957	.20317
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198898-N-1-B MS Acquired: 6/15/2022 17:57:24 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19521**	**.19856**	**.21027**	**1.000**
Stddev	.00046	.00164	.00118	.001
%RSD	.23454	.82384	.56311	.0618
#1	.19553	.19972	.21111	1.000
#2	.19489	.19741	.20944	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2670.8**	**2311.1**	**22380.**	**3415.1**
Stddev	4.9	3.9	28.	32.0
%RSD	.18481	.17049	.12472	.93607
#1	2674.3	2313.9	22360.	3392.5
#2	2667.3	2308.3	22400.	3437.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.389%	90.024%	88.922%	95.302%
Range				

Sample Name: 480-198898-N-1-C MSD Acquired: 6/15/2022 18:01:08 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04901**	**9.5874**	**.20618**	**.25347**	**.23795**
Stddev	.00029	.0083	.00124	.00042	.00039
%RSD	.59527	.08693	.60065	.16635	.16361
#1	.04922	9.5933	.20530	.25317	.23822
#2	.04881	9.5815	.20705	.25376	.23767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19706**	**170.26**	**.19924**	**.0386**	**.19242**
Stddev	.00110	.37	.00025	.0422	.00014
%RSD	.55601	.21795	.12613	109.2	.07036
#1	.19783	170.52	.19942	.0684	.19233
#2	.19628	170.00	.19906	.0088	.19252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19739**	**.20589**	**9.7936**	**13.337**	**.19746**
Stddev	.00171	.00015	.0557	.027	.00276
%RSD	.86761	.07129	.56864	.20226	1.3999
#1	.19860	.20579	9.8329	13.356	.19942
#2	.19618	.20600	9.7542	13.318	.19551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198898-N-1-C MSD Acquired: 6/15/2022 18:01:08 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**87.205**	**.21996**	**.20770**	**20.783**	**.18908**
Stddev	.137	.00013	.00055	.049	.00021
%RSD	.15667	.06036	.26449	.23534	.10966
#1	87.301	.22005	.20731	20.818	.18923
#2	87.108	.21986	.20809	20.748	.18893
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.75**	**.19201**	F **137.85**	**.20724**	**.20076**
Stddev	.00	.00016	.11	.00092	.00353
%RSD	.0036	.08149	.08148	.44477	1.7589
#1	24.75	.19190	137.77	.20789	.20325
#2	24.75	.19213	137.92	.20659	.19826
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.089**	**.23333**	**.61704**	**1.000**	**.20175**
Stddev	.027	.00034	.00334	.002	.00190
%RSD	.21928	.14767	.54138	.2296	.94320
#1	12.108	.23357	.61940	.9987	.20309
#2	12.070	.23309	.61467	1.002	.20040
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198898-N-1-C MSD Acquired: 6/15/2022 18:01:08 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19626**	**.19721**	**.20837**	**1.001**
Stddev	.00059	.00024	.00120	.001
%RSD	.30151	.12006	.57502	.0450
#1	.19667	.19704	.20752	1.001
#2	.19584	.19737	.20921	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2665.4**	**2309.4**	**22545.**	**3456.5**
Stddev	3.0	3.2	21.	2.2
%RSD	.11195	.13704	.09476	.06258
#1	2663.3	2307.1	22530.	3458.0
#2	2667.5	2311.6	22560.	3454.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.220%	89.955%	89.578%	96.456%
Range				

Sample Name: CCV-7032336 Acquired: 6/15/2022 18:04:54 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0256**	**49.915**	**1.0139**	**1.0472**	**1.0163**
Stddev	.0011	.124	.0012	.0023	.0020
%RSD	.10710	.24772	.12236	.21839	.20048
#1	1.0264	50.003	1.0131	1.0456	1.0178
#2	1.0248	49.828	1.0148	1.0488	1.0149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99553**	**49.470**	**1.0159**	**.9836**	**.99465**
Stddev	.00050	.137	.0001	.0036	.00018
%RSD	.05040	.27697	.00731	.3675	.01830
#1	.99589	49.566	1.0158	.9810	.99452
#2	.99518	49.373	1.0159	.9861	.99477
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0326**	**1.0126**	**50.385**	**49.118**	**.99230**
Stddev	.0018	.0001	.101	.282	.00212
%RSD	.17860	.00617	.19966	.57456	.21368
#1	1.0313	1.0125	50.314	49.317	.99380
#2	1.0339	1.0126	50.456	48.918	.99080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 18:04:54 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.267**	**1.0224**	**1.0285**	**49.819**	**1.0006**
Stddev	.038	.0001	.0011	.084	.0013
%RSD	.07498	.01445	.10350	.16796	.12517
#1	51.240	1.0223	1.0278	49.878	.99976
#2	51.294	1.0225	1.0293	49.760	1.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.79**	**.99446**	**25.308**	**1.0181**	**1.0280**
Stddev	.01	.00134	.039	.0022	.0052
%RSD	.0230	.13517	.15445	.22031	.50069
#1	37.79	.99541	25.336	1.0197	1.0243
#2	37.78	.99351	25.280	1.0165	1.0316
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8846**	**.98602**	**1.0165**	**1.503**	**1.0181**
Stddev	.0188	.00043	.0018	.008	.0005
%RSD	.19051	.04313	.17381	.5247	.04491
#1	9.8713	.98632	1.0178	1.509	1.0177
#2	9.8980	.98572	1.0153	1.498	1.0184
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 18:04:54 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0191**	**1.0253**	**1.0250**	**1.504**
Stddev	.0040	.0019	.0041	.001
%RSD	.38843	.18415	.40027	.0595
#1	1.0163	1.0239	1.0221	1.505
#2	1.0219	1.0266	1.0279	1.503
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2657.5**	**2359.3**	**22448.**	**3403.2**
Stddev	4.6	4.5	113.	6.0
%RSD	.17371	.19265	.50382	.17676
#1	2660.8	2362.5	22528.	3398.9
#2	2654.3	2356.0	22368.	3407.4

Sample Name: CCB-7026764 Acquired: 6/15/2022 18:08:34 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00077**	**.00034**	**.00251**	**.00065**
Stddev	.00063	.00338	.00055	.00018	.00001
%RSD	474.83	439.06	161.62	7.1696	2.1710
#1	-.00031	.00316	.00072	.00264	.00064
#2	.00057	-.00162	-.00005	.00239	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.08584**	**.00067**	**.0201**	**.00053**
Stddev	.00015	.00427	.00002	.0263	.00011
%RSD	27.870	4.9728	2.3683	130.6	20.328
#1	.00065	.08283	.00066	.0015	.00046
#2	.00043	.08886	.00068	.0387	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**.00063**	**.01774**	**.02346**	**-.00089**
Stddev	.00022	.00062	.00399	.05791	.00028
%RSD	42.993	97.767	22.467	246.91	31.537
#1	.00068	.00107	.02056	-.01750	-.00108
#2	.00036	.00020	.01492	.06441	-.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 18:08:34 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07294**	**.00043**	**.00103**	**.04590**	**.00062**
Stddev	.00751	.00000	.00006	.00873	.00024
%RSD	10.298	.44511	6.1390	19.015	39.074
#1	.06763	.00043	.00099	.05208	.00045
#2	.07825	.00042	.00108	.03973	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**-.00050**	**.11864**	**.00112**	**.00040**
Stddev	.00	.00115	.01548	.00025	.00176
%RSD	.0038	231.23	13.050	22.110	436.30
#1	25.02	-.00131	.10769	.00095	-.00084
#2	25.03	.00032	.12959	.00130	.00164
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00183**	**.00054**	**.00063**	**1.001**	**.00027**
Stddev	.01235	.00050	.00004	.009	.00014
%RSD	675.85	92.622	5.6336	.8611	51.102
#1	-.01056	.00019	.00060	.9944	.00017
#2	.00690	.00090	.00065	1.007	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 18:08:34 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00049**	**-.00107**	**1.000**
Stddev	.00111	.00017	.00036	.000
%RSD	472.13	33.832	33.948	.0039
#1	-.00055	.00038	-.00082	1.000
#2	.00102	.00061	-.00133	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3099.3**	**2467.6**	**23756.**	**3413.6**
Stddev	31.7	24.9	22.	5.5
%RSD	1.0217	1.0081	.09222	.16011
#1	3076.9	2450.0	23772.	3417.5
#2	3121.7	2485.2	23741.	3409.7

Sample Name: CCVL-7028546 Acquired: 6/15/2022 18:12:32 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00566**	**.19361**	**.01622**	**.02103**	**.00238**
Stddev	.00035	.02425	.00063	.00052	.00008
%RSD	6.2203	12.524	3.8913	2.4841	3.5614
#1	.00541	.17646	.01578	.02140	.00232
#2	.00591	.21075	.01667	.02066	.00244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00231**	**.56309**	**.00218**	**-.0105**	**.00395**
Stddev	.00008	.01416	.00008	.0057	.00005
%RSD	3.4304	2.5151	3.7697	54.19	1.2727
#1	.00226	.55308	.00223	-.0065	.00399
#2	.00237	.57310	.00212	-.0145	.00391
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00440**	**.01068**	**.06498**	**.47122**	**.02643**
Stddev	.00005	.00007	.00637	.04280	.00107
%RSD	1.1061	.69239	9.7956	9.0835	4.0546
#1	.00437	.01063	.06048	.50149	.02719
#2	.00444	.01073	.06948	.44096	.02568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/15/2022 18:12:32 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22110**	**.00344**	**.01052**	**.95667**	**.00958**
Stddev	.00769	.00000	.00006	.00630	.00013
%RSD	3.4778	.08091	.52681	.65894	1.3805
#1	.21566	.00345	.01048	.95221	.00968
#2	.22653	.00344	.01056	.96113	.00949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00945**	**.23063**	**.01899**	**.02414**
Stddev	.00	.00019	.01149	.00091	.00120
%RSD	.0032	2.0105	4.9821	4.8113	4.9883
#1	25.00	.00932	.23875	.01964	.02329
#2	25.00	.00959	.22250	.01834	.02499
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45809**	**.00913**	**.00550**	F **.9975**	**.00492**
Stddev	.01935	.00054	.00014	.0008	.00075
%RSD	4.2244	5.8631	2.5249	.0821	15.260
#1	.44441	.00875	.00540	.9981	.00439
#2	.47178	.00951	.00559	.9969	.00545
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/15/2022 18:12:32 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02011**	**.00476**	**.01077**	F **1.001**
Stddev	.00053	.00011	.00036	.000
%RSD	2.6151	2.2390	3.3312	.0325
#1	.02048	.00468	.01102	1.002
#2	.01973	.00483	.01052	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3104.0**	**2471.7**	**24191.**	**3477.5**
Stddev	.1	3.0	3.	12.4
%RSD	.00290	.12195	.01113	.35787
#1	3104.1	2469.5	24189.	3486.3
#2	3103.9	2473.8	24193.	3468.7

Sample Name: 480-198764-N-1-B Acquired: 6/15/2022 18:16:27 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**.01695**	**.05170**	**1.7203**	**.22886**
Stddev	.00049	.03956	.00087	.0008	.00013
%RSD	79.554	233.40	1.6894	.04883	.05792
#1	-.00096	-.01102	.05108	1.7209	.22895
#2	-.00027	.04493	.05232	1.7197	.22876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**176.04**	**.00078**	**.0371**	**.00728**
Stddev	.00008	1.11	.00008	.0350	.00021
%RSD	38.633	.63115	9.6708	94.41	2.9060
#1	.00015	175.26	.00084	.0618	.00743
#2	.00026	176.83	.00073	.0123	.00713
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01245**	**.00049**	**1.6039**	**110.89**	**.03947**
Stddev	.00066	.00052	.0131	.61	.00023
%RSD	5.3018	106.39	.81780	.55109	.58080
#1	.01292	.00012	1.5946	110.46	.03930
#2	.01199	.00086	1.6132	111.32	.03963
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198764-N-1-B Acquired: 6/15/2022 18:16:27 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**129.61**	**.14191**	**.00224**	**361.05**	**.04398**
Stddev	.19	.00019	.00029	2.28	.00016
%RSD	.14969	.13549	13.032	.63258	.35659
#1	129.75	.14205	.00245	359.44	.04386
#2	129.48	.14178	.00203	362.67	.04409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.78**	**.00231**	F **125.47**	**.00521**	**-.00451**
Stddev	.00	.00056	.10	.00111	.00111
%RSD	.0021	24.090	.08053	21.212	24.641
#1	25.78	.00270	125.54	.00600	-.00373
#2	25.78	.00192	125.40	.00443	-.00530
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.383**	**.00247**	**1.3180**	**.9963**	**.01564**
Stddev	.083	.00018	.0095	.0096	.00009
%RSD	.62346	7.2733	.71912	.9593	.57657
#1	13.324	.00234	1.3113	.9895	.01557
#2	13.442	.00259	1.3247	1.003	.01570
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198764-N-1-B Acquired: 6/15/2022 18:16:27 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00078**	**.00738**	**.00492**	**1.004**
Stddev	.00043	.00085	.00002	.000
%RSD	55.516	11.544	.48263	.0345
#1	-.00047	.00677	.00494	1.004
#2	-.00109	.00798	.00491	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2469.7**	**2220.7**	**21288.**	**3379.1**
Stddev	4.1	.1	13.	29.0
%RSD	.16781	.00565	.05887	.85687
#1	2466.8	2220.6	21280.	3399.6
#2	2472.7	2220.8	21297.	3358.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.111%	86.500%	84.586%	94.297%
Range				

Sample Name: 480-198764-N-2-B Acquired: 6/15/2022 18:20:23 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00102**	**.04580**	**.03546**	**3.6627**	**.17631**
Stddev	.00126	.03053	.00062	.0052	.00064
%RSD	122.58	66.660	1.7415	.14197	.36386
#1	-.00014	.02421	.03589	3.6590	.17677
#2	-.00191	.06738	.03502	3.6664	.17586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**186.11**	**.00074**	**-.0093**	**.01860**
Stddev	.00002	.52	.00000	.0252	.00006
%RSD	14.708	.27926	.66142	271.3	.32704
#1	.00016	185.74	.00074	.0085	.01864
#2	.00013	186.48	.00074	-.0271	.01856
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03824**	**.00262**	**5.6385**	**204.12**	**.08969**
Stddev	.00032	.00112	.0288	.66	.00056
%RSD	.82555	42.620	.51100	.32505	.62684
#1	.03802	.00341	5.6181	203.65	.09009
#2	.03847	.00183	5.6589	204.59	.08929
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198764-N-2-B Acquired: 6/15/2022 18:20:23 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**146.73**	**.21186**	**.00592**	**798.94**	**.11614**
Stddev	.52	.00070	.00005	1.51	.00026
%RSD	.35142	.33165	.86595	.18948	.22613
#1	147.10	.21235	.00588	797.87	.11595
#2	146.37	.21136	.00595	800.01	.11632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.85**	**.00123**	F **288.45**	**.00135**	**.00140**
Stddev	.00	.00128	.20	.00025	.00169
%RSD	.0119	104.14	.06886	18.172	120.48
#1	26.85	.00032	288.31	.00118	.00260
#2	26.85	.00213	288.59	.00152	.00021
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.671**	**.01234**	**1.8024**	**1.002**	**.07625**
Stddev	.064	.00010	.0071	.009	.00044
%RSD	.46742	.77999	.39449	.9196	.57378
#1	13.625	.01227	1.7974	1.009	.07656
#2	13.716	.01240	1.8074	.9955	.07594
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198764-N-2-B Acquired: 6/15/2022 18:20:23 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00309**	**.02027**	**.01429**	**1.011**
Stddev	.00033	.00009	.00035	.001
%RSD	10.745	.44320	2.4380	.0845
#1	-.00286	.02020	.01405	1.011
#2	-.00333	.02033	.01454	1.012
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2339.8**	**2155.7**	**20453.**	**3369.5**
Stddev	6.3	10.5	42.	6.3
%RSD	.26809	.48521	.20751	.18789
#1	2344.2	2163.1	20423.	3374.0
#2	2335.3	2148.3	20483.	3365.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.053%	83.969%	81.266%	94.030%
Range				

Sample Name: 480-198764-N-3-B Acquired: 6/15/2022 18:24:18 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.73124**	**.00498**	**.60282**	**.07250**
Stddev	.00003	.03481	.00052	.00247	.00008
%RSD	13.740	4.7602	10.433	.40952	.11374
#1	.00022	.70663	.00535	.60457	.07256
#2	.00027	.75585	.00461	.60108	.07244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**141.43**	**.00048**	**.0273**	**.00357**
Stddev	.00002	.04	.00005	.0041	.00007
%RSD	14.124	.03161	10.803	14.92	1.9820
#1	.00011	141.46	.00052	.0302	.00362
#2	.00013	141.40	.00044	.0244	.00352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00345**	**.00917**	**1.1773**	**31.276**	**.02545**
Stddev	.00008	.00041	.0031	.094	.00138
%RSD	2.3856	4.4295	.26326	.30023	5.4071
#1	.00351	.00888	1.1751	31.343	.02642
#2	.00340	.00946	1.1795	31.210	.02447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198764-N-3-B Acquired: 6/15/2022 18:24:18 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**60.776**	**.31536**	**.00599**	**133.51**	**.01870**
Stddev	.088	.00016	.00013	.35	.00007
%RSD	.14542	.05125	2.1171	.26011	.39497
#1	60.838	.31524	.00608	133.75	.01876
#2	60.713	.31547	.00590	133.26	.01865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.06**	**.00267**	F **147.11**	**-.00112**	**-.00394**
Stddev	.00	.00030	.17	.00169	.00036
%RSD	.0107	11.053	.11589	150.53	9.2245
#1	25.06	.00288	147.23	.00007	-.00419
#2	25.07	.00246	146.99	-.00232	-.00368
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.1809**	**-.00012**	**1.1160**	**.9974**	**.02208**
Stddev	.0045	.00092	.0022	.0022	.00032
%RSD	.07232	748.45	.19521	.2232	1.4618
#1	6.1841	.00053	1.1145	.9990	.02231
#2	6.1777	-.00077	1.1176	.9958	.02185
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198764-N-3-B Acquired: 6/15/2022 18:24:18 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00198**	**.03298**	**1.001**
Stddev	.00097	.00024	.00066	.000
%RSD	553.78	11.906	2.0090	.0005
#1	-.00086	.00215	.03345	1.001
#2	.00051	.00181	.03251	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2630.3**	**2291.4**	**22074.**	**3359.0**
Stddev	2.3	1.9	64.	8.1
%RSD	.08611	.08075	.29036	.24222
#1	2628.7	2290.1	22119.	3353.3
#2	2631.9	2292.7	22028.	3364.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.123%	89.256%	87.706%	93.738%
Range				

Sample Name: 480-198764-N-4-B Acquired: 6/15/2022 18:28:09 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.14319**	**.00314**	**.18692**	**.03981**
Stddev	.00011	.02795	.00067	.00142	.00004
%RSD	32.482	19.521	21.224	.75966	.09468
#1	-.00042	.16295	.00267	.18592	.03979
#2	-.00026	.12342	.00361	.18793	.03984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**73.124**	**.00011**	**.0299**	**.00085**
Stddev	.00012	.103	.00009	.0115	.00002
%RSD	209.95	.14086	86.671	38.39	2.5090
#1	.00014	73.051	.00004	.0380	.00086
#2	-.00003	73.197	.00018	.0218	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00107**	**.00432**	**.24399**	**13.932**	**.00737**
Stddev	.00016	.00005	.00662	.018	.00057
%RSD	14.718	1.0846	2.7144	.13263	7.7020
#1	.00096	.00428	.23931	13.919	.00697
#2	.00118	.00435	.24867	13.945	.00777
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198764-N-4-B Acquired: 6/15/2022 18:28:09 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.281**	**.08097**	**.00534**	**125.17**	**.00442**
Stddev	.003	.00033	.00004	.12	.00035
%RSD	.01532	.40793	.74544	.09711	7.9607
#1	20.284	.08121	.00537	125.09	.00417
#2	20.279	.08074	.00531	125.26	.00467
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.08**	**-.00110**	**35.669**	**.00001**	**.00014**
Stddev	.00	.00030	.199	.00000	.00435
%RSD	.0058	27.127	.55901	43.953	3004.7
#1	25.08	-.00089	35.528	.00001	.00322
#2	25.08	-.00131	35.810	.00001	-.00293
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.9212**	**-.00013**	**.36248**	**.9934**	**.00486**
Stddev	.0213	.00059	.00132	.0025	.00051
%RSD	.72986	440.46	.36448	.2512	10.555
#1	2.9061	.00028	.36155	.9951	.00449
#2	2.9363	-.00055	.36341	.9916	.00522
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198764-N-4-B Acquired: 6/15/2022 18:28:09 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00068**	**.00005**	**.02129**	**1.001**
Stddev	.00028	.00010	.00069	.001
%RSD	41.236	214.72	3.2207	.0758
#1	-.00048	.00012	.02081	1.000
#2	-.00087	-.00002	.02178	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2712.9**	**2335.3**	**22412.**	**3405.5**
Stddev	14.8	10.4	5.	4.6
%RSD	.54539	.44670	.02343	.13495
#1	2702.5	2327.9	22415.	3408.7
#2	2723.4	2342.6	22408.	3402.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.704%	90.964%	89.049%	95.033%
Range				

Sample Name: 480-198764-N-5-B Acquired: 6/15/2022 18:32:00 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.04820**	**.08637**	**4.8409**	**.14893**
Stddev	.00087	.02480	.00038	.0004	.00057
%RSD	186.65	51.446	.44465	.00871	.38152
#1	.00015	.06574	.08664	4.8412	.14933
#2	-.00109	.03067	.08610	4.8406	.14853
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**134.30**	**.00045**	**-.0110**	**.02292**
Stddev	.00008	.87	.00006	.0514	.00000
%RSD	1062.4	.64851	13.354	468.2	.01791
#1	-.00005	133.69	.00049	.0254	.02292
#2	.00006	134.92	.00040	-.0474	.02293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06975**	**.00193**	**1.5513**	**291.23**	**.11752**
Stddev	.00011	.00021	.0168	1.47	.00085
%RSD	.15589	10.704	1.0848	.50430	.72592
#1	.06982	.00208	1.5394	290.19	.11691
#2	.06967	.00178	1.5632	292.27	.11812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198764-N-5-B Acquired: 6/15/2022 18:32:00 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**117.53**	**.07719**	**.00592**	F **1041.1**	**.10525**
Stddev	.47	.00012	.00038	7.0	.00049
%RSD	.40033	.15634	6.4261	.66887	.46090
#1	117.86	.07727	.00618	1036.2	.10491
#2	117.20	.07710	.00565	1046.0	.10559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.47**	**.00215**	F **191.72**	**.00488**	**.00115**
Stddev	.00	.00020	.09	.00091	.00237
%RSD	.0045	9.5317	.04645	18.656	206.39
#1	29.47	.00229	191.66	.00424	.00283
#2	29.47	.00200	191.78	.00553	-.00053
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.384**	**.00349**	**2.3758**	**1.003**	**.13656**
Stddev	.390	.00005	.0141	.003	.00086
%RSD	2.9115	1.3209	.59181	.2511	.63049
#1	13.108	.00352	2.3658	1.005	.13717
#2	13.659	.00346	2.3857	1.001	.13595
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198764-N-5-B Acquired: 6/15/2022 18:32:00 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00114**	**.04032**	**.00730**	**1.014**
Stddev	.00121	.00036	.00086	.000
%RSD	105.67	.88530	11.809	.0210
#1	-.00029	.04057	.00669	1.014
#2	-.00200	.04006	.00791	1.014
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2307.1**	**2153.3**	**20353.**	**3394.4**
Stddev	.7	.7	105.	24.4
%RSD	.03165	.03057	.51445	.72000
#1	2306.6	2152.8	20279.	3411.7
#2	2307.6	2153.8	20427.	3377.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	72.032%	83.876%	80.869%	94.723%
Range				

Sample Name: 480-198776-F-1-A Acquired: 6/15/2022 18:35:56 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**5.4741**	**.18315**	**4.7532**	**.57168**
Stddev	.00015	.0007	.00055	.0002	.00142
%RSD	57.770	.01257	.30087	.00483	.24787
#1	-.00038	5.4745	.18276	4.7530	.57268
#2	-.00016	5.4736	.18354	4.7533	.57068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**86.654**	**.00086**	**-.0141**	**.02715**
Stddev	.00000	.150	.00005	.0009	.00018
%RSD	10.631	.17352	5.2553	6.355	.65716
#1	.00003	86.760	.00090	-.0147	.02728
#2	.00003	86.547	.00083	-.0134	.02703
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12287**	**.02940**	**8.2484**	**371.48**	**.46015**
Stddev	.00103	.00018	.0051	.86	.00085
%RSD	.83615	.61658	.06235	.23132	.18373
#1	.12360	.02953	8.2447	372.09	.46074
#2	.12214	.02927	8.2520	370.88	.45955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198776-F-1-A Acquired: 6/15/2022 18:35:56 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**144.81**	**.10766**	**.00856**	F **1515.6**	**.16969**
Stddev	.71	.00061	.00011	1.7	.00027
%RSD	.49037	.57043	1.3298	.11437	.15820
#1	145.31	.10809	.00848	1516.8	.16988
#2	144.31	.10722	.00864	1514.4	.16950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.72**	**.01082**	**46.688**	**.03503**	**.00001**
Stddev	.00	.00066	.029	.00000	.00028
%RSD	.0170	6.0731	.06292	.00778	4621.9
#1	26.72	.01036	46.709	.03503	.00020
#2	26.72	.01129	46.667	.03503	-.00019
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.430**	**.04276**	**.74294**	**.9995**	**.04745**
Stddev	.047	.00016	.00102	.0006	.00037
%RSD	.27017	.38342	.13780	.0566	.78030
#1	17.463	.04264	.74221	.9999	.04771
#2	17.397	.04287	.74366	.9991	.04719
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198776-F-1-A Acquired: 6/15/2022 18:35:56 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00988**	**.08470**	**1.012**
Stddev	.00260	.00011	.00123	.001
%RSD	992.58	1.0724	1.4551	.0631
#1	.00158	.00981	.08557	1.011
#2	-.00210	.00996	.08383	1.012
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2245.1**	**2132.2**	**20004.**	**3387.3**
Stddev	1.4	2.3	94.	10.4
%RSD	.06310	.10693	.47084	.30713
#1	2244.1	2133.8	19937.	3379.9
#2	2246.1	2130.6	20070.	3394.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.098%	83.053%	79.481%	94.526%
Range				

Sample Name: 480-198897-N-1-B Acquired: 6/15/2022 18:39:50 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.51135**	**.00381**	**2.1819**	**.15698**
Stddev	.00103	.02981	.00208	.0089	.00039
%RSD	181.76	5.8305	54.659	.40788	.24549
#1	-.00129	.53243	.00529	2.1756	.15670
#2	.00016	.49027	.00234	2.1882	.15725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**84.371**	**.00062**	**.0276**	**.00437**
Stddev	.00013	.268	.00008	.0167	.00010
%RSD	4017.0	.31789	13.374	60.40	2.1766
#1	.00010	84.561	.00056	.0394	.00430
#2	-.00009	84.182	.00068	.0158	.00444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00760**	**.00409**	**2.3132**	**109.83**	**.04102**
Stddev	.00015	.00057	.0042	.42	.00224
%RSD	1.9956	14.036	.18149	.37995	5.4653
#1	.00749	.00368	2.3161	110.13	.03944
#2	.00770	.00449	2.3102	109.54	.04261
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198897-N-1-B Acquired: 6/15/2022 18:39:50 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**118.67**	**.17524**	**.00196**	**337.67**	**.04893**
Stddev	.48	.00040	.00014	.57	.00057
%RSD	.40230	.22585	6.9507	.16905	1.1548
#1	118.33	.17496	.00206	338.07	.04853
#2	119.01	.17552	.00187	337.27	.04933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.25**	**.00134**	**32.351**	**.00030**	**.00032**
Stddev	.00	.00104	.051	.00169	.00233
%RSD	.0008	77.655	.15645	557.87	736.08
#1	25.25	.00060	32.316	.00150	-.00133
#2	25.25	.00208	32.387	-.00089	.00196
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.1744**	**.00228**	**.56920**	**1.001**	**.02250**
Stddev	.0014	.00044	.00231	.002	.00021
%RSD	.01949	19.386	.40525	.1579	.93469
#1	7.1754	.00259	.57083	1.002	.02235
#2	7.1734	.00197	.56757	1.0000	.02265
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198897-N-1-B Acquired: 6/15/2022 18:39:50 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00183**	**.00582**	**.03100**	**1.006**
Stddev	.00046	.00000	.00074	.001
%RSD	25.312	.05389	2.3848	.0631
#1	-.00151	.00582	.03152	1.006
#2	-.00216	.00582	.03047	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2515.7**	**2254.0**	**21562.**	**3415.0**
Stddev	.5	1.9	87.	9.0
%RSD	.01866	.08615	.40116	.26382
#1	2516.1	2255.4	21623.	3408.6
#2	2515.4	2252.6	21501.	3421.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.548%	87.798%	85.674%	95.298%
Range				

Sample Name: 480-198899-G-1-B Acquired: 6/15/2022 18:43:46 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**.24436**	**.07843**	F **25.269**	**.20945**
Stddev	.00061	.00570	.00059	.009	.00006
%RSD	98.550	2.3312	.75740	.03366	.02708
#1	-.00106	.24839	.07885	25.275	.20941
#2	-.00019	.24033	.07801	25.263	.20949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				18.000	
Low Limit				-.02000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**93.946**	**.00062**	**-.0386**	**.05143**
Stddev	.00003	.359	.00029	.0219	.00026
%RSD	30.900	.38231	45.671	56.75	.49771
#1	.00009	94.200	.00083	-.0541	.05125
#2	.00014	93.692	.00042	-.0231	.05161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.33153**	**.00155**	**.59211**	F **956.97**	**.36650**
Stddev	.00081	.00002	.00507	12.78	.00103
%RSD	.24393	1.1513	.85552	1.3351	.28029
#1	.33096	.00154	.59569	966.01	.36578
#2	.33211	.00156	.58853	947.94	.36723
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-198899-G-1-B Acquired: 6/15/2022 18:43:46 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**335.47**	**.21236**	**.02452**	F **2718.0**	**.33151**
Stddev	.20	.00023	.00020	4.5	.00026
%RSD	.05873	.10849	.81539	.16466	.07762
#1	335.61	.21220	.02438	2721.2	.33133
#2	335.33	.21253	.02466	2714.8	.33169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.08**	**.00271**	F **200.78**	**.00632**	**.00297**
Stddev	.01	.00166	.07	.00052	.00383
%RSD	.0260	61.147	.03488	8.1512	128.86
#1	31.07	.00154	200.83	.00596	.00026
#2	31.08	.00388	200.73	.00668	.00568
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.486**	**.01094**	**1.0849**	**1.008**	**.22772**
Stddev	.083	.00019	.0013	.005	.00056
%RSD	.53664	1.7797	.11618	.5009	.24397
#1	15.427	.01108	1.0858	1.012	.22732
#2	15.545	.01080	1.0840	1.005	.22811
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198899-G-1-B Acquired: 6/15/2022 18:43:46 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00105**	**.27458**	**.01032**	**1.073**
Stddev	.00012	.00070	.00016	.002
%RSD	11.717	.25659	1.5407	.1406
#1	-.00114	.27408	.01044	1.072
#2	-.00096	.27508	.01021	1.074
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2046.4**	**1990.8**	**18536.**	**3265.1**
Stddev	3.9	1.3	2.	3.5
%RSD	.19048	.06730	.00972	.10617
#1	2049.2	1991.8	18537.	3262.6
#2	2043.7	1989.9	18534.	3267.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	63.894%	77.547%	73.648%	91.115%
Range				

Sample Name: 480-198899-G-2-B Acquired: 6/15/2022 18:47:44 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00082**	**.45435**	**.04929**	F **25.920**	**.28180**
Stddev	.00064	.02409	.00048	.062	.00061
%RSD	77.368	5.3024	.96756	.24009	.21771
#1	-.00037	.47139	.04895	25.876	.28137
#2	-.00127	.43732	.04963	25.964	.28223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				18.000	
Low Limit				-.02000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**119.29**	**.00080**	**.0163**	**.04653**
Stddev	.00007	.39	.00002	.0133	.00007
%RSD	128.65	.32617	2.5089	81.34	.15876
#1	.00000	119.57	.00079	.0257	.04658
#2	.00010	119.02	.00082	.0069	.04648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.24957**	**.00893**	**2.1953**	F **735.70**	**.70655**
Stddev	.00022	.00006	.0044	3.17	.00486
%RSD	.08902	.72585	.19967	.43048	.68852
#1	.24972	.00888	2.1922	737.94	.70999
#2	.24941	.00898	2.1984	733.46	.70311
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-198899-G-2-B Acquired: 6/15/2022 18:47:44 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**230.15**	**.20537**	**.01194**	F **2424.3**	**.32040**
Stddev	.61	.00013	.00015	5.9	.00019
%RSD	.26311	.06244	1.2234	.24184	.06022
#1	229.72	.20528	.01205	2428.4	.32027
#2	230.57	.20546	.01184	2420.2	.32054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.63**	**.00554**	**41.339**	**.01159**	**.00392**
Stddev	.01	.00101	.136	.00089	.00060
%RSD	.0399	18.291	.32868	7.6979	15.205
#1	30.62	.00482	41.243	.01096	.00350
#2	30.64	.00626	41.435	.01222	.00434
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6887**	**.01889**	**1.1964**	**1.007**	**.19293**
Stddev	.0915	.00080	.0037	.003	.00006
%RSD	.94418	4.2455	.31266	.3264	.03333
#1	9.7534	.01832	1.1990	1.004	.19298
#2	9.6240	.01946	1.1937	1.009	.19289
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198899-G-2-B Acquired: 6/15/2022 18:47:44 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00111**	**.07736**	**.16283**	**1.019**
Stddev	.00181	.00006	.00011	.001
%RSD	163.33	.07940	.06926	.0896
#1	-.00238	.07740	.16291	1.019
#2	.00017	.07732	.16275	1.020
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2087.9**	**2021.5**	**18810.**	**3257.4**
Stddev	2.4	7.3	106.	1.7
%RSD	.11400	.36004	.56380	.05184
#1	2089.6	2026.6	18885.	3256.2
#2	2086.3	2016.3	18735.	3258.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	65.191%	78.741%	74.737%	90.900%
Range				

Sample Name: CCV-7032336 Acquired: 6/15/2022 18:51:44 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0287**	**49.919**	**1.0190**	F **1.1021**	**1.0219**
Stddev	.0049	.156	.0022	.0002	.0043
%RSD	.47995	.31155	.22028	.02025	.42163
#1	1.0252	50.029	1.0174	1.1022	1.0250
#2	1.0322	49.809	1.0206	1.1019	1.0189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				1.0000	
Range				10.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99688**	**49.451**	**1.0195**	**.9891**	**.99824**
Stddev	.00297	.181	.0011	.0277	.00060
%RSD	.29782	.36573	.10754	2.803	.05962
#1	.99898	49.578	1.0187	1.009	.99866
#2	.99478	49.323	1.0203	.9695	.99781
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0410**	**1.0151**	**50.296**	**49.923**	**1.0034**
Stddev	.0047	.0028	.162	.202	.0034
%RSD	.45155	.27920	.32155	.40509	.33771
#1	1.0377	1.0131	50.410	50.066	1.0058
#2	1.0444	1.0171	50.181	49.780	1.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 18:51:44 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.402**	**1.0290**	**1.0359**	**50.082**	**1.0059**
Stddev	.304	.0052	.0032	.107	.0001
%RSD	.59113	.50106	.31345	.21389	.00815
#1	51.187	1.0253	1.0337	50.157	1.0059
#2	51.616	1.0326	1.0382	50.006	1.0060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.78**	**.99614**	**25.221**	**1.0180**	**1.0313**
Stddev	.02	.00204	.036	.0003	.0031
%RSD	.0479	.20454	.14111	.02421	.30037
#1	37.76	.99470	25.196	1.0182	1.0335
#2	37.79	.99758	25.247	1.0179	1.0291
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.153**	**.98940**	**1.0166**	**1.512**	**1.0223**
Stddev	.057	.00051	.0035	.002	.0051
%RSD	.56605	.05167	.34601	.1067	.49994
#1	10.193	.98904	1.0191	1.510	1.0187
#2	10.112	.98977	1.0141	1.513	1.0259
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 18:51:44 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0258**	**1.0350**	**1.0253**	**1.508**
Stddev	.0005	.0054	.0046	.001
%RSD	.04782	.52421	.45383	.0361
#1	1.0262	1.0311	1.0221	1.508
#2	1.0255	1.0388	1.0286	1.507
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2641.1**	**2351.1**	**22298.**	**3353.8**
Stddev	2.0	4.4	160.	20.2
%RSD	.07684	.18860	.71884	.60213
#1	2642.5	2354.2	22411.	3339.5
#2	2639.6	2348.0	22184.	3368.1

Sample Name: CCB-7026764 Acquired: 6/15/2022 18:55:25 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**-.00489**	**-.00090**	F **.03469**	**.00026**
Stddev	.00051	.01534	.00255	.00184	.00002
%RSD	102.26	314.07	284.04	5.3182	6.5565
#1	-.00086	.00596	.00091	.03599	.00027
#2	-.00014	-.01573	-.00270	.03338	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.02000	
Low Limit				-.02000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.01608**	**.00004**	**-.0138**	**.00012**
Stddev	.00008	.00261	.00004	.0173	.00004
%RSD	23.073	16.216	124.20	125.6	30.091
#1	.00043	.01793	.00000	-.0015	.00010
#2	.00031	.01424	.00007	-.0261	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.00056**	**.01048**	**.42621**	**-.00260**
Stddev	.00006	.00085	.00315	.02783	.00039
%RSD	29.377	152.07	30.040	6.5290	15.203
#1	.00017	.00115	.01270	.40653	-.00288
#2	.00027	-.00004	.00825	.44589	-.00232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 18:55:25 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02863**	**.00013**	**.00050**	**.34219**	**.00003**
Stddev	.00773	.00000	.00032	.02158	.00003
%RSD	26.999	.76294	62.657	6.3050	105.19
#1	.03409	.00013	.00073	.35744	.00006
#2	.02316	.00013	.00028	.32693	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00109**	**.03765**	**.00001**	**-.00086**
Stddev	.00	.00061	.00348	.00151	.00174
%RSD	.0068	56.241	9.2417	12465.	201.64
#1	25.02	-.00066	.04011	.00108	-.00209
#2	25.02	-.00152	.03519	-.00105	.00037
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01937**	**-.00039**	**.00029**	**.9983**	**.00027**
Stddev	.00669	.00012	.00002	.0058	.00006
%RSD	34.532	29.970	7.9841	.5762	23.380
#1	.01464	-.00048	.00031	.9942	.00022
#2	.02410	-.00031	.00027	1.002	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 18:55:25 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00039**	**.00014**	**-.00170**	**1.001**
Stddev	.00002	.00012	.00045	.001
%RSD	5.4446	89.560	26.687	.1161
#1	.00037	.00022	-.00202	1.002
#2	.00040	.00005	-.00138	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3134.5**	**2494.6**	**24325.**	**3547.2**
Stddev	9.4	7.0	36.	17.6
%RSD	.29838	.27908	.14653	.49514
#1	3127.8	2489.7	24300.	3534.8
#2	3141.1	2499.5	24350.	3559.6

Sample Name: CCVL-7028546 Acquired: 6/15/2022 18:59:23 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00564**	**.17074**	**.01431**	F **.04241**	**.00216**
Stddev	.00124	.02438	.00056	.00053	.00001
%RSD	22.012	14.277	3.8984	1.2402	.58077
#1	.00652	.18797	.01392	.04278	.00217
#2	.00476	.15350	.01471	.04204	.00216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**.48533**	**.00196**	**.0312**	**.00366**
Stddev	.00010	.00088	.00014	.0681	.00008
%RSD	4.7577	.18077	7.2083	218.7	2.0740
#1	.00201	.48595	.00186	.0793	.00371
#2	.00215	.48471	.00206	-.0170	.00361
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00376**	**.01074**	**.04941**	W **.73620**	**.02588**
Stddev	.00012	.00003	.00037	.05947	.00074
%RSD	3.1790	.30781	.75619	8.0786	2.8568
#1	.00385	.01077	.04915	.77825	.02640
#2	.00368	.01072	.04967	.69414	.02536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				.50000	
Range				30.000%	

Sample Name: CCVL-7028546 Acquired: 6/15/2022 18:59:23 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19805**	**.00327**	**.01048**	**1.0733**	**.00935**
Stddev	.00501	.00006	.00004	.0063	.00007
%RSD	2.5280	1.9824	.35213	.59064	.70580
#1	.19451	.00322	.01050	1.0688	.00939
#2	.20159	.00331	.01045	1.0778	.00930
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00861**	**.21591**	**.01950**	**.02650**
Stddev	.00	.00035	.00111	.00024	.00061
%RSD	.0045	4.0237	.51260	1.2502	2.2990
#1	25.00	.00837	.21513	.01967	.02693
#2	25.00	.00886	.21670	.01933	.02607
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46913**	**.00858**	**.00506**	F **.9998**	**.00484**
Stddev	.00904	.00006	.00002	.0084	.00009
%RSD	1.9269	.71360	.37770	.8421	1.8834
#1	.46274	.00853	.00504	1.006	.00491
#2	.47553	.00862	.00507	.9938	.00478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/15/2022 18:59:23 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01887**	**.00486**	**.01069**	F **1.001**
Stddev	.00119	.00024	.00012	.001
%RSD	6.3183	4.9879	1.1424	.0469
#1	.01802	.00503	.01060	1.000
#2	.01971	.00469	.01078	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3124.1**	**2486.8**	**24340.**	**3496.0**
Stddev	4.4	4.5	72.	1.7
%RSD	.13955	.18144	.29509	.04795
#1	3121.0	2483.6	24289.	3497.2
#2	3127.2	2490.0	24390.	3494.8

Sample Name: 480-198899-G-3-B Acquired: 6/15/2022 19:03:18 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00105**	**.17732**	**.02722**	**7.7261**	**.22610**
Stddev	.00010	.03008	.00296	.0032	.00035
%RSD	9.5342	16.963	10.861	.04075	.15633
#1	-.00098	.15605	.02931	7.7239	.22635
#2	-.00112	.19859	.02513	7.7283	.22585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**161.77**	**.00063**	**.0174**	**.01703**
Stddev	.00008	.19	.00009	.0038	.00008
%RSD	218.38	.11908	13.909	22.07	.49406
#1	-.00010	161.63	.00069	.0147	.01697
#2	.00002	161.90	.00057	.0201	.01709
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08128**	**.00330**	**1.6523**	**251.14**	**.18953**
Stddev	.00024	.00020	.0008	.84	.00161
%RSD	.29624	5.9891	.04797	.33322	.85091
#1	.08111	.00344	1.6517	250.54	.18839
#2	.08145	.00316	1.6528	251.73	.19067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198899-G-3-B Acquired: 6/15/2022 19:03:18 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**125.15**	**.37246**	**.00293**	**871.56**	**.07864**
Stddev	.23	.00077	.00003	1.77	.00059
%RSD	.18026	.20773	1.0941	.20363	.74426
#1	125.31	.37301	.00296	870.31	.07823
#2	124.99	.37192	.00291	872.82	.07906
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.56**	**.00295**	**27.223**	**.00681**	**.00274**
Stddev	.00	.00058	.010	.00031	.00103
%RSD	.0067	19.696	.03692	4.5178	37.564
#1	27.55	.00336	27.216	.00703	.00346
#2	27.56	.00254	27.230	.00659	.00201
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8505**	**.00331**	**1.0989**	**1.001**	**.13097**
Stddev	.0213	.00017	.0018	.004	.00063
%RSD	.21658	5.0984	.16143	.3731	.48427
#1	9.8354	.00319	1.0976	.9989	.13142
#2	9.8656	.00343	1.1001	1.004	.13052
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198899-G-3-B Acquired: 6/15/2022 19:03:18 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00183**	**.03878**	**.05809**	**1.008**
Stddev	.00171	.00032	.00031	.000
%RSD	93.797	.83325	.53196	.0272
#1	-.00062	.03855	.05787	1.008
#2	-.00304	.03901	.05831	1.008
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2357.3**	**2188.8**	**20859.**	**3431.3**
Stddev	.1	.2	59.	4.0
%RSD	.00391	.00982	.28140	.11584
#1	2357.3	2189.0	20818.	3428.5
#2	2357.4	2188.7	20901.	3434.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.601%	85.260%	82.880%	95.753%
Range				

Sample Name: 480-198903-D-1-A Acquired: 6/15/2022 19:07:13 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**.14508**	**2.5937**	**.08996**	**.01486**
Stddev	.00049	.00797	.0043	.00074	.00004
%RSD	59.893	5.4907	.16380	.82025	.28434
#1	-.00115	.15072	2.5967	.09048	.01483
#2	-.00047	.13945	2.5906	.08944	.01489
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**8.1576**	**.00002**	**.0040**	**.00020**
Stddev	.00001	.0260	.00003	.0102	.00007
%RSD	16.418	.31874	102.67	255.3	34.739
#1	.00006	8.1392	.00004	-.0032	.00025
#2	.00008	8.1759	.00001	.0112	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00300**	**.01782**	**.86353**	**3.3271**	**.00118**
Stddev	.00037	.00052	.00025	.0062	.00051
%RSD	12.411	2.9248	.02948	.18675	42.852
#1	.00274	.01819	.86335	3.3227	.00082
#2	.00326	.01745	.86371	3.3315	.00154
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198903-D-1-A Acquired: 6/15/2022 19:07:13 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5882**	**.03757**	**.00071**	**6.3555**	**.00180**
Stddev	.0249	.00011	.00033	.0007	.00000
%RSD	.54325	.28734	46.589	.01157	.11875
#1	4.6058	.03765	.00048	6.3550	.00180
#2	4.5705	.03749	.00094	6.3560	.00181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**-.00026**	**29.471**	**.65008**	**-.00142**
Stddev	.00	.00035	.001	.00337	.00015
%RSD	.0028	132.08	.00408	.51818	10.417
#1	25.05	-.00051	29.472	.64769	-.00131
#2	25.05	-.00002	29.470	.65246	-.00152
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5895**	**.00142**	**.02773**	**.9970**	**.00569**
Stddev	.0024	.00013	.00012	.0027	.00020
%RSD	.14926	8.8726	.43022	.2675	3.5194
#1	1.5878	.00133	.02781	.9951	.00583
#2	1.5912	.00151	.02764	.9989	.00555
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198903-D-1-A Acquired: 6/15/2022 19:07:13 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00070**	**.00069**	**.01423**	**1.001**
Stddev	.00061	.00011	.00048	.001
%RSD	86.670	15.316	3.3664	.1239
#1	.00113	.00062	.01457	.9998
#2	.00027	.00076	.01389	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3082.8**	**2476.7**	**24244.**	**3612.7**
Stddev	4.2	4.4	7.	21.9
%RSD	.13605	.17905	.02775	.60646
#1	3079.8	2473.6	24249.	3628.2
#2	3085.7	2479.9	24240.	3597.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.252%	96.475%	96.331%	100.82%
Range				

Sample Name: MB 480-630025/1-A Acquired: 6/15/2022 19:11:02 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**-.02257**	**-.00010**	**.01981**	**.00006**
Stddev	.00070	.00439	.00073	.00073	.00000
%RSD	162.02	19.468	738.34	3.6804	1.7979
#1	.00006	-.02568	-.00061	.02032	.00006
#2	-.00093	-.01947	.00042	.01929	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.07879**	**.00001**	**.0426**	**.00001**
Stddev	.00001	.00164	.00002	.0087	.00005
%RSD	21.423	2.0774	280.59	20.54	829.32
#1	.00005	.07994	.00002	.0364	.00004
#2	.00007	.07763	-.00001	.0487	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00400**	**.01524**	**.32242**	**-.00092**
Stddev	.00030	.00047	.00098	.02759	.00013
%RSD	1951.1	11.866	6.4140	8.5579	13.624
#1	-.00023	.00366	.01455	.34193	-.00083
#2	.00020	.00433	.01593	.30291	-.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-630025/1-A Acquired: 6/15/2022 19:11:02 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02523**	**.00067**	**-.00005**	**.36394**	**.00000**
Stddev	.00420	.00005	.00004	.00269	.00001
%RSD	16.653	7.4598	72.470	.73938	160.96
#1	.02820	.00071	-.00008	.36204	-.00000
#2	.02226	.00063	-.00002	.36584	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00011**	**.03672**	**.00407**	**.00005**
Stddev	.00	.00157	.00234	.00034	.00507
%RSD	.0033	1397.5	6.3653	8.3890	10145.
#1	25.01	.00100	.03838	.00431	.00363
#2	25.01	-.00122	.03507	.00383	-.00353
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04664**	**.00029**	**.00034**	**.9992**	**.00004**
Stddev	.00224	.00041	.00002	.0052	.00028
%RSD	4.8048	141.39	5.7211	.5246	772.42
#1	.04822	.00000	.00032	.9955	-.00016
#2	.04506	.00058	.00035	1.003	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-630025/1-A Acquired: 6/15/2022 19:11:02 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.00012**	**.00223**	**.9999**
Stddev	.00019	.00007	.00052	.0011
%RSD	95.941	53.921	23.174	.1140
#1	.00006	-.00008	.00260	.9991
#2	.00034	-.00017	.00187	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3147.3**	**2502.7**	**24654.**	**3616.1**
Stddev	9.6	7.9	116.	31.5
%RSD	.30457	.31585	.47132	.87031
#1	3154.1	2508.3	24572.	3593.8
#2	3140.5	2497.1	24736.	3638.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.266%	97.487%	97.958%	100.91%
Range				

Sample Name: LCS 480-630025/2-A Acquired: 6/15/2022 19:14:57 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04829**	**9.5852**	**.19646**	**.21312**	**.20803**
Stddev	.00027	.0089	.00266	.00063	.00027
%RSD	.55693	.09337	1.3563	.29709	.13135
#1	.04848	9.5789	.19834	.21357	.20823
#2	.04810	9.5916	.19458	.21267	.20784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19514**	**9.2477**	**.19134**	**.0020**	**.18761**
Stddev	.00082	.0402	.00021	.0316	.00051
%RSD	.41978	.43441	.10810	1576.	.27232
#1	.19571	9.2761	.19149	-.0203	.18725
#2	.19456	9.2193	.19119	.0243	.18797
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19696**	**.19635**	**9.5780**	**9.2711**	**.18617**
Stddev	.00043	.00155	.0241	.0061	.00025
%RSD	.21619	.79138	.25190	.06622	.13392
#1	.19666	.19745	9.5951	9.2754	.18600
#2	.19726	.19525	9.5609	9.2668	.18635
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-630025/2-A Acquired: 6/15/2022 19:14:57 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9086**	**.19573**	**.20192**	**9.3215**	**.18326**
Stddev	.0045	.00008	.00024	.0312	.00041
%RSD	.04582	.03910	.11653	.33485	.22511
#1	9.9054	.19568	.20209	9.3436	.18296
#2	9.9118	.19579	.20176	9.2995	.18355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.74**	**.18662**	**9.5693**	**.20248**	**.19603**
Stddev	.00	.00026	.0201	.00147	.00395
%RSD	.0039	.13912	.20997	.72598	2.0128
#1	24.74	.18644	9.5835	.20144	.19882
#2	24.74	.18680	9.5551	.20352	.19324
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8875**	**.22046**	**.19906**	**1.002**	**.19540**
Stddev	.0402	.00142	.00075	.002	.00076
%RSD	.40680	.64346	.37755	.1914	.39020
#1	9.8591	.21945	.19959	1.003	.19594
#2	9.9160	.22146	.19853	1.001	.19487
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-630025/2-A Acquired: 6/15/2022 19:14:57 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19268**	**.19454**	**.18992**	**1.002**
Stddev	.00029	.00002	.00068	.001
%RSD	.15296	.00897	.35993	.1011
#1	.19248	.19453	.19040	1.003
#2	.19289	.19456	.18944	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2989.9**	**2477.8**	**24195.**	**3616.5**
Stddev	15.7	7.5	109.	21.5
%RSD	.52492	.30203	.45033	.59360
#1	3001.0	2483.1	24118.	3601.3
#2	2978.8	2472.6	24272.	3631.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.350%	96.518%	96.134%	100.92%
Range				

Sample Name: 480-198974-C-1-A Acquired: 6/15/2022 19:18:41 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**.18397**	**.00399**	**.04182**	**.01625**
Stddev	.00019	.01065	.00110	.00055	.00006
%RSD	36.766	5.7894	27.579	1.3253	.38205
#1	-.00066	.17644	.00321	.04221	.01620
#2	-.00039	.19150	.00477	.04142	.01629
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**5.2982**	**.00002**	**.0311**	**.00018**
Stddev	.00005	.0031	.00005	.0054	.00010
%RSD	65.070	.05876	272.23	17.34	52.945
#1	.00004	5.2960	-.00002	.0349	.00025
#2	.00011	5.3004	.00005	.0273	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00251**	**.02911**	**1.1817**	**9.4780**	**-.00064**
Stddev	.00026	.00004	.0016	.0035	.00091
%RSD	10.291	.12861	.13683	.03726	141.80
#1	.00233	.02908	1.1805	9.4805	.00000
#2	.00270	.02914	1.1828	9.4755	-.00129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198974-C-1-A Acquired: 6/15/2022 19:18:41 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94670**	**.02368**	**.00513**	**63.466**	**.00464**
Stddev	.00352	.00003	.00035	.056	.00006
%RSD	.37208	.12148	6.7295	.08806	1.2119
#1	.94421	.02371	.00488	63.505	.00468
#2	.94919	.02366	.00537	63.426	.00460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.72**	**.00028**	**17.637**	**.00122**	**-.00061**
Stddev	.03	.00090	.016	.00225	.00080
%RSD	.0555	324.52	.08934	184.73	131.61
#1	52.74	.00091	17.626	-.00037	-.00118
#2	52.70	-.00036	17.648	.00281	-.00004
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.3481**	**.00056**	**.01516**	**1.003**	**.00629**
Stddev	.0286	.00011	.00004	.006	.00012
%RSD	.85341	19.304	.27400	.6002	1.8688
#1	3.3279	.00064	.01519	1.007	.00637
#2	3.3683	.00049	.01513	.9984	.00620
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198974-C-1-A Acquired: 6/15/2022 19:18:41 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00110**	**.00037**	**.04373**	**1.000**
Stddev	.00137	.00040	.00038	.000
%RSD	124.45	107.38	.86447	.0170
#1	-.00207	.00009	.04347	1.001
#2	-.00013	.00065	.04400	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2930.7**	**2458.8**	**24034.**	**3653.1**
Stddev	5.1	3.4	67.	23.3
%RSD	.17273	.13812	.27691	.63725
#1	2934.3	2461.2	24081.	3669.6
#2	2927.1	2456.4	23987.	3636.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.504%	95.777%	95.496%	101.94%
Range				

Sample Name: 480-198974-C-1-ASD@5 Acquired: 6/15/2022 19:22:33 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.06757**	**.00020**	**.01554**	**.00438**
Stddev	.00043	.02051	.00004	.00056	.00001
%RSD	1089.1	30.360	19.890	3.5970	.12746
#1	.00035	.08207	.00017	.01515	.00437
#2	-.00027	.05306	.00022	.01594	.00438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**1.1637**	**.00002**	**.0435**	**-.00003**
Stddev	.00009	.0092	.00005	.0056	.00004
%RSD	996.28	.78630	207.24	12.88	159.94
#1	.00008	1.1573	-.00001	.0395	.00000
#2	-.00006	1.1702	.00006	.0474	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**.00615**	**.24202**	**2.0703**	**-.00067**
Stddev	.00040	.00069	.00037	.0726	.00241
%RSD	59.993	11.229	.15350	3.5044	357.58
#1	.00094	.00663	.24176	2.0190	.00103
#2	.00038	.00566	.24228	2.1216	-.00238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198974-C-1-ASD@5 Acquired: 6/15/2022 19:22:33 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19484**	**.00486**	**.00111**	**11.945**	**.00073**
Stddev	.00075	.00002	.00024	.030	.00008
%RSD	.38425	.51012	21.318	.25322	10.596
#1	.19431	.00488	.00128	11.924	.00078
#2	.19537	.00485	.00095	11.967	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.50**	**-.00056**	**3.4703**	**.00018**	**-.00262**
Stddev	.00	.00062	.0003	.00094	.00056
%RSD	.0025	110.51	.00745	508.64	21.281
#1	30.50	-.00012	3.4701	-.00048	-.00301
#2	30.50	-.00101	3.4705	.00085	-.00222
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.65703**	**-.00021**	**.00377**	**.9966**	**.00192**
Stddev	.00204	.00015	.00013	.0026	.00088
%RSD	.31027	71.334	3.3341	.2655	45.749
#1	.65847	-.00032	.00386	.9985	.00255
#2	.65559	-.00011	.00368	.9948	.00130
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198974-C-1-ASD@5 Acquired: 6/15/2022 19:22:33 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.00008**	**.00845**	**1.002**
Stddev	.00025	.00006	.00036	.000
%RSD	63.884	83.199	4.2405	.0022
#1	-.00056	.00003	.00871	1.002
#2	-.00021	.00012	.00820	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3087.4**	**2490.7**	**24468.**	**3582.2**
Stddev	4.1	2.0	40.	5.4
%RSD	.13371	.08067	.16292	.15143
#1	3090.3	2492.1	24440.	3586.0
#2	3084.5	2489.2	24496.	3578.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.396%	97.017%	97.219%	99.965%
Range				

Sample Name: 480-198974-C-1-APDS Acquired: 6/15/2022 19:26:25 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05045**	**10.345**	**.21501**	**.24996**	**.23262**
Stddev	.00045	.016	.00095	.00004	.00026
%RSD	.90095	.15791	.44141	.01653	.11226
#1	.05013	10.357	.21568	.24999	.23281
#2	.05077	10.334	.21434	.24994	.23244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21495**	**15.009**	**.20804**	**.0142**	**.20779**
Stddev	.00092	.058	.00032	.0339	.00008
%RSD	.42772	.38741	.15295	238.6	.03611
#1	.21430	14.968	.20781	-.0098	.20774
#2	.21560	15.050	.20826	.0382	.20785
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21889**	**.24154**	**11.394**	**19.263**	**.20598**
Stddev	.00021	.00147	.046	.088	.00144
%RSD	.09446	.60951	.40426	.45608	.70060
#1	.21904	.24258	11.361	19.201	.20496
#2	.21875	.24050	11.426	19.325	.20700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198974-C-1-APDS Acquired: 6/15/2022 19:26:25 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.469**	**.23913**	**.22328**	**71.556**	**.20757**
Stddev	.027	.00018	.00023	.314	.00042
%RSD	.23361	.07641	.10303	.43853	.20165
#1	11.488	.23926	.22312	71.335	.20787
#2	11.450	.23900	.22344	71.778	.20728
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.58**	**.20410**	**27.344**	**.22172**	**.20980**
Stddev	.01	.00065	.007	.00121	.00030
%RSD	.0262	.31896	.02568	.54568	.14177
#1	51.57	.20364	27.339	.22257	.20959
#2	51.59	.20456	27.349	.22086	.21001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.106**	**.20031**	**.22805**	**1.003**	**.21817**
Stddev	.051	.00024	.00109	.002	.00018
%RSD	.38659	.12011	.47749	.2374	.08160
#1	13.070	.20048	.22728	1.005	.21830
#2	13.141	.20014	.22882	1.001	.21804
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198974-C-1-APDS Acquired: 6/15/2022 19:26:25 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21072**	**.21286**	**.24754**	**1.002**
Stddev	.00004	.00041	.00233	.001
%RSD	.01738	.19385	.94238	.0921
#1	.21075	.21315	.24919	1.003
#2	.21070	.21256	.24590	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2849.6**	**2439.7**	**23743.**	**3584.6**
Stddev	6.3	7.9	79.	11.8
%RSD	.22221	.32332	.33295	.32794
#1	2854.1	2445.3	23687.	3592.9
#2	2845.1	2434.1	23799.	3576.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.971%	95.032%	94.339%	100.03%
Range				

Sample Name: 480-198974-C-1-B MS Acquired: 6/15/2022 19:30:07 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05143**	**10.141**	**.21091**	**.24298**	**.22758**
Stddev	.00036	.016	.00005	.00080	.00071
%RSD	.70254	.15438	.02242	.32896	.31351
#1	.05117	10.152	.21095	.24242	.22808
#2	.05168	10.130	.21088	.24355	.22707
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21106**	**15.130**	**.20392**	**.0233**	**.20474**
Stddev	.00089	.026	.00003	.0097	.00010
%RSD	.42260	.16971	.01406	41.46	.04695
#1	.21043	15.112	.20394	.0165	.20467
#2	.21169	15.148	.20390	.0301	.20481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21486**	**.23607**	**11.284**	**19.496**	**.20095**
Stddev	.00051	.00119	.040	.011	.00051
%RSD	.23948	.50319	.35287	.05836	.25402
#1	.21450	.23691	11.313	19.504	.20059
#2	.21523	.23523	11.256	19.488	.20131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198974-C-1-B MS Acquired: 6/15/2022 19:30:07 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.369**	**.23203**	**.22015**	**73.729**	**.20394**
Stddev	.048	.00028	.00021	.439	.00035
%RSD	.42514	.12104	.09425	.59493	.16992
#1	11.403	.23223	.22029	73.419	.20418
#2	11.335	.23183	.22000	74.039	.20369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.23**	**.20049**	**27.284**	**.21329**	**.20861**
Stddev	.01	.00149	.003	.00055	.00239
%RSD	.0115	.74259	.01121	.25591	1.1450
#1	52.22	.19944	27.286	.21291	.21030
#2	52.23	.20154	27.282	.21368	.20692
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.725**	**.25175**	**.22057**	**1.007**	**.21653**
Stddev	.042	.00133	.00095	.005	.00266
%RSD	.33382	.52903	.42845	.4654	1.2297
#1	12.695	.25081	.21990	1.010	.21841
#2	12.755	.25270	.22124	1.003	.21465
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198974-C-1-B MS Acquired: 6/15/2022 19:30:07 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20396**	**.20994**	**.24788**	**1.001**
Stddev	.00087	.00003	.00050	.002
%RSD	.42654	.01249	.20230	.1704
#1	.20334	.20992	.24823	1.002
#2	.20457	.20995	.24752	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2808.3**	**2412.6**	**23362.**	**3535.2**
Stddev	.3	.7	58.	4.4
%RSD	.01088	.02999	.24990	.12345
#1	2808.1	2413.1	23404.	3532.1
#2	2808.5	2412.1	23321.	3538.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.682%	93.978%	92.826%	98.654%
Range				

Sample Name: 480-198974-C-1-C MSD Acquired: 6/15/2022 19:33:50 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04818**	**9.7078**	**.18904**	**.23338**	**.21995**
Stddev	.00023	.0343	.00299	.00016	.00066
%RSD	.47669	.35311	1.5804	.06748	.30055
#1	.04834	9.6836	.19116	.23327	.22042
#2	.04801	9.7320	.18693	.23350	.21948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19204**	**14.119**	**.18582**	**.0383**	**.18653**
Stddev	.00012	.028	.00010	.0149	.00044
%RSD	.06060	.19517	.05231	38.94	.23358
#1	.19212	14.100	.18576	.0488	.18622
#2	.19195	14.139	.18589	.0277	.18684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19489**	**.21749**	**10.391**	**18.953**	**.19265**
Stddev	.00109	.00005	.015	.067	.00076
%RSD	.56110	.02318	.13952	.35416	.39363
#1	.19566	.21753	10.381	18.905	.19212
#2	.19411	.21746	10.401	19.000	.19319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198974-C-1-C MSD Acquired: 6/15/2022 19:33:50 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.464**	**.21252**	**.20071**	**71.742**	**.18600**
Stddev	.032	.00080	.00034	.009	.00047
%RSD	.30836	.37854	.17126	.01295	.25176
#1	10.487	.21309	.20047	71.749	.18567
#2	10.441	.21195	.20096	71.736	.18634
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.79**	**.18322**	**26.848**	**.19219**	**.18495**
Stddev	.01	.00084	.026	.00041	.00024
%RSD	.0134	.46066	.09638	.21249	.13051
#1	51.80	.18381	26.866	.19190	.18477
#2	51.79	.18262	26.830	.19247	.18512
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.669**	**.23516**	**.21198**	**1.007**	**.19693**
Stddev	.042	.00027	.00012	.000	.00001
%RSD	.32908	.11594	.05689	.0004	.00419
#1	12.640	.23497	.21207	1.007	.19693
#2	12.699	.23535	.21190	1.007	.19692
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198974-C-1-C MSD Acquired: 6/15/2022 19:33:50 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.18668**	**.19100**	**.23006**	**1.001**
Stddev	.00047	.00046	.00200	.000
%RSD	.25258	.23911	.86971	.0299
#1	.18701	.19132	.23148	1.001
#2	.18634	.19068	.22865	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2824.5**	**2423.0**	**23407.**	**3546.0**
Stddev	5.0	7.2	66.	5.5
%RSD	.17810	.29661	.28225	.15600
#1	2828.0	2428.1	23360.	3542.0
#2	2820.9	2417.9	23454.	3549.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.186%	94.381%	93.004%	98.954%
Range				

Sample Name: CCV-7032336 Acquired: 6/15/2022 19:37:34 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0211**	**49.727**	**1.0157**	**1.0554**	**1.0203**
Stddev	.0041	.176	.0028	.0025	.0029
%RSD	.40030	.35447	.27159	.23513	.28604
#1	1.0183	49.852	1.0137	1.0536	1.0224
#2	1.0240	49.602	1.0176	1.0572	1.0182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99947**	**49.442**	**1.0160**	**1.064**	**.99641**
Stddev	.00188	.150	.0001	.051	.00134
%RSD	.18795	.30310	.00841	4.755	.13438
#1	1.0008	49.548	1.0159	1.100	.99546
#2	.99815	49.336	1.0160	1.029	.99736
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0451**	**1.0099**	**50.053**	**49.845**	**1.0015**
Stddev	.0048	.0032	.034	.114	.0037
%RSD	.45691	.31173	.06694	.22806	.36410
#1	1.0417	1.0077	50.029	49.926	1.0041
#2	1.0485	1.0121	50.076	49.765	.99889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 19:37:34 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.366**	**1.0315**	**1.0370**	**50.408**	**1.0037**
Stddev	.171	.0023	.0007	.130	.0004
%RSD	.33360	.21960	.07123	.25802	.03801
#1	51.245	1.0299	1.0376	50.500	1.0039
#2	51.487	1.0331	1.0365	50.316	1.0034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.71**	**.99523**	**25.044**	**1.0131**	**1.0314**
Stddev	.00	.00204	.021	.0010	.0028
%RSD	.0105	.20496	.08586	.09475	.27461
#1	37.71	.99667	25.029	1.0124	1.0294
#2	37.71	.99379	25.059	1.0137	1.0334
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9373**	**.98664**	**1.0146**	**1.511**	**1.0163**
Stddev	.0156	.00002	.0022	.001	.0056
%RSD	.15700	.00194	.21469	.0885	.55104
#1	9.9263	.98663	1.0161	1.510	1.0123
#2	9.9484	.98665	1.0130	1.511	1.0202
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 19:37:34 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0223**	**1.0375**	**1.0253**	**1.509**
Stddev	.0006	.0024	.0027	.000
%RSD	.05607	.22816	.26752	.0114
#1	1.0219	1.0358	1.0234	1.509
#2	1.0227	1.0392	1.0273	1.509
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2648.6**	**2355.7**	**22321.**	**3359.5**
Stddev	1.4	1.0	109.	7.9
%RSD	.05433	.04187	.48826	.23631
#1	2649.6	2356.4	22398.	3353.9
#2	2647.6	2355.0	22244.	3365.1

Sample Name: CCB-7026764 Acquired: 6/15/2022 19:41:15 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00717**	**.00167**	**.00591**	**.00030**
Stddev	.00023	.02403	.00184	.00024	.00003
%RSD	4444.9	335.34	110.14	4.0359	8.4613
#1	-.00017	.02416	.00037	.00608	.00031
#2	.00016	-.00983	.00296	.00574	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00809**	**.00019**	**-.0192**	**.00032**
Stddev	.00001	.00191	.00004	.0122	.00004
%RSD	2.2376	23.581	21.304	63.25	12.767
#1	.00035	.00944	.00022	-.0106	.00029
#2	.00034	.00674	.00016	-.0279	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00023**	**.01069**	**.03125**	**-.00053**
Stddev	.00061	.00002	.00081	.00903	.00132
%RSD	262.17	7.1350	7.5822	28.913	249.56
#1	-.00020	.00022	.01126	.03763	.00040
#2	.00067	.00024	.01012	.02486	-.00146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 19:41:15 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01253**	**.00013**	**.00056**	**.08547**	**.00044**
Stddev	.00284	.00010	.00007	.01838	.00031
%RSD	22.638	80.737	12.742	21.505	71.513
#1	.01453	.00020	.00051	.09847	.00022
#2	.01052	.00005	.00061	.07248	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**-.00024**	**.02633**	**.00046**	**.00151**
Stddev	.00	.00066	.00111	.00097	.00206
%RSD	.0144	277.03	4.2121	212.99	136.31
#1	25.03	-.00071	.02554	-.00023	.00297
#2	25.03	.00023	.02711	.00114	.00005
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00196**	**-.00024**	**.00014**	**1.004**	**.00015**
Stddev	.01314	.00024	.00005	.003	.00004
%RSD	669.71	101.66	32.902	.3434	28.386
#1	.01125	-.00041	.00017	1.006	.00012
#2	-.00733	-.00007	.00011	1.002	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 19:41:15 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00046**	**-.00142**	**1.001**
Stddev	.00066	.00024	.00009	.000
%RSD	587.73	52.265	6.0268	.0178
#1	-.00058	.00063	-.00148	1.001
#2	.00035	.00029	-.00136	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3145.7**	**2501.5**	**24657.**	**3550.5**
Stddev	5.3	.9	106.	43.3
%RSD	.16734	.03428	.42801	1.2204
#1	3142.0	2502.1	24582.	3581.2
#2	3149.4	2500.9	24731.	3519.9

Sample Name: CCVL-7028546 Acquired: 6/15/2022 19:45:12 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00516**	**.19028**	**.01380**	**.02360**	**.00217**
Stddev	.00076	.00724	.00051	.00043	.00000
%RSD	14.659	3.8049	3.7021	1.8134	.16932
#1	.00569	.19540	.01416	.02330	.00217
#2	.00462	.18516	.01344	.02391	.00217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00215**	**.48985**	**.00193**	**.0072**	**.00372**
Stddev	.00001	.00668	.00004	.0198	.00001
%RSD	.66436	1.3636	2.2856	275.2	.27152
#1	.00214	.49458	.00190	-.0068	.00373
#2	.00216	.48513	.00196	.0211	.00371
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00438**	**.01070**	**.05175**	**.47617**	**.02608**
Stddev	.00042	.00071	.00399	.02907	.00166
%RSD	9.6054	6.6421	7.7048	6.1048	6.3480
#1	.00408	.01120	.05457	.45561	.02725
#2	.00467	.01019	.04893	.49672	.02491
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/15/2022 19:45:12 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19326**	**.00328**	**.01059**	**1.0035**	**.00927**
Stddev	.00390	.00004	.00004	.0134	.00000
%RSD	2.0198	1.2417	.36196	1.3313	.02405
#1	.19050	.00325	.01062	1.0129	.00928
#2	.19602	.00331	.01057	.99404	.00927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00923**	**.20166**	**.01745**	**.02547**
Stddev	.00	.00081	.00275	.00106	.00273
%RSD	.0054	8.8254	1.3638	6.0718	10.702
#1	25.00	.00981	.20361	.01670	.02740
#2	25.01	.00865	.19972	.01820	.02355
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47009**	**.00886**	**.00521**	F **1.000**	**.00489**
Stddev	.00697	.00053	.00007	.002	.00042
%RSD	1.4834	5.9307	1.2940	.1721	8.5601
#1	.46516	.00848	.00526	1.002	.00459
#2	.47503	.00923	.00517	.9991	.00518
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/15/2022 19:45:12 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01941**	**.00458**	**.01079**	F **1.000**
Stddev	.00057	.00001	.00017	.000
%RSD	2.9117	.16957	1.5570	.0326
#1	.01901	.00457	.01067	1.000
#2	.01981	.00458	.01091	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3127.7**	**2493.2**	**24465.**	**3493.6**
Stddev	4.5	7.0	16.	23.4
%RSD	.14510	.28087	.06666	.67060
#1	3124.5	2488.2	24476.	3477.0
#2	3130.9	2498.1	24453.	3510.1

Sample Name: 480-198994-A-1-A Acquired: 6/15/2022 19:49:07 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.26398**	**.00208**	**.17574**	**.06985**
Stddev	.00081	.00799	.00064	.00294	.00171
%RSD	534.43	3.0283	31.015	1.6745	2.4422
#1	-.00073	.26964	.00254	.17782	.07106
#2	.00042	.25833	.00162	.17366	.06865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**37.786**	**.00037**	**.0280**	**.00251**
Stddev	.00011	.686	.00039	.0273	.00008
%RSD	52.291	1.8158	107.13	97.64	3.3398
#1	.00030	38.271	.00009	.0087	.00245
#2	.00014	37.300	.00064	.0473	.00257
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00165**	**.05235**	**1.8374**	**10.744**	**.00043**
Stddev	.00022	.00123	.0219	.287	.00038
%RSD	13.509	2.3461	1.1907	2.6701	87.183
#1	.00180	.05322	1.8529	10.947	.00017
#2	.00149	.05148	1.8219	10.541	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198994-A-1-A Acquired: 6/15/2022 19:49:07 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6617**	**.06873**	**.00281**	**61.428**	**.00455**
Stddev	.2211	.00154	.00010	.874	.00009
%RSD	2.2879	2.2478	3.6480	1.4230	2.0736
#1	9.8180	.06982	.00274	62.046	.00461
#2	9.5053	.06764	.00288	60.810	.00448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.35**	**.00165**	**15.478**	**-.00142**	**.00020**
Stddev	.06	.00026	.394	.00187	.00405
%RSD	.2249	15.618	2.5474	132.05	1975.8
#1	28.40	.00183	15.757	-.00009	.00307
#2	28.31	.00146	15.199	-.00274	-.00266
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1289**	**.00251**	**.16944**	**1.001**	**.02501**
Stddev	.1992	.00013	.00350	.001	.01431
%RSD	6.3664	5.3351	2.0685	.1359	57.218
#1	2.9880	.00261	.17191	1.002	.03513
#2	3.2697	.00242	.16696	.9996	.01489
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198994-A-1-A Acquired: 6/15/2022 19:49:07 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00107**	**.00044**	**.09291**	**1.002**
Stddev	.00005	.00029	.00315	.001
%RSD	5.0959	67.613	3.3858	.0635
#1	-.00103	.00064	.09514	1.002
#2	-.00111	.00023	.09069	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2826.0**	**2392.0**	**23637.**	**3731.4**
Stddev	71.4	62.9	455.	65.3
%RSD	2.5265	2.6283	1.9269	1.7501
#1	2876.5	2436.4	23315.	3685.2
#2	2775.5	2347.5	23959.	3777.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.233%	93.173%	93.918%	104.13%
Range				

Sample Name: 480-198844-B-1-A Acquired: 6/15/2022 19:52:56 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00273**	**.94854**	**.41437**	F **41.860**	**.74458**
Stddev	.00112	.03127	.00341	.084	.00339
%RSD	40.995	3.2970	.82330	.20041	.45585
#1	-.00194	.92643	.41678	41.919	.74698
#2	-.00352	.97065	.41196	41.800	.74218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				18.000	
Low Limit				-.02000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	F **1208.7**	**-.00129**	**-.0013**	**.02049**
Stddev	.00011	.5	.00046	.0085	.00028
%RSD	57.875	.03738	35.675	632.4	1.3574
#1	.00011	1209.1	-.00096	-.0074	.02069
#2	.00027	1208.4	-.00161	.0047	.02029
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.29744**	**.01006**	**147.93**	F **1474.0**	**.79628**
Stddev	.00147	.00040	.43	7.9	.00405
%RSD	.49550	4.0251	.28936	.53374	.50873
#1	.29639	.01035	148.23	1468.4	.79914
#2	.29848	.00977	147.62	1479.5	.79341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-198844-B-1-A Acquired: 6/15/2022 19:52:56 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **452.75**	**9.7131**	**.00729**	F **5169.6**	**.08580**
Stddev	1.25	.0116	.00047	17.3	.00043
%RSD	.27676	.11953	6.4960	.33529	.50696
#1	453.64	9.7049	.00695	5181.9	.08549
#2	451.87	9.7213	.00762	5157.4	.08610
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	450.00			900.00	
Low Limit	-.20000			-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.51**	**.04250**	F **207.14**	**.04928**	**.02907**
Stddev	.01	.00156	.81	.00111	.00198
%RSD	.0387	3.6735	.39075	2.2477	6.8282
#1	26.52	.04140	207.71	.04850	.02767
#2	26.51	.04361	206.57	.05006	.03047
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **51.643**	**.02460**	**7.9259**	**1.054**	**.12551**
Stddev	.024	.00068	.0355	.005	.00048
%RSD	.04568	2.7455	.44784	.5051	.37967
#1	51.660	.02412	7.9008	1.058	.12517
#2	51.627	.02507	7.9510	1.050	.12584
Check ?	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass
High Limit	50.000				
Low Limit	-.50000				

Sample Name: 480-198844-B-1-A Acquired: 6/15/2022 19:52:56 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.01535**	**.04808**	**2.3077**	**1.005**
Stddev	.00184	.00032	.0163	.001
%RSD	11.991	.66343	.70580	.0837
#1	-.01665	.04786	2.3193	1.006
#2	-.01405	.04831	2.2962	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1753.4**	**1761.6**	**16883.**	**3226.1**
Stddev	.2	1.2	53.	5.7
%RSD	.01358	.06647	.31408	.17623
#1	1753.3	1760.7	16845.	3222.1
#2	1753.6	1762.4	16920.	3230.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	54.746%	68.617%	67.081%	90.028%
Range				

Sample Name: rinse Acquired: 6/15/2022 19:57:17 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**-.01112**	**-.00122**	**.05827**	**.00004**
Stddev	.00002	.03016	.00007	.00739	.00001
%RSD	5.6125	271.08	6.1014	12.681	21.668
#1	-.00029	.01020	-.00116	.06350	.00005
#2	-.00027	-.03245	-.00127	.05305	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.11685**	**.00006**	**.0309**	**.00002**
Stddev	.00001	.01545	.00002	.0300	.00006
%RSD	128.51	13.219	24.044	97.11	341.47
#1	.00000	.12777	.00005	.0097	.00006
#2	.00002	.10593	.00008	.0521	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00142**	**.01195**	**.92324**	**-.00133**
Stddev	.00035	.00014	.00048	.08967	.00039
%RSD	337.62	10.032	4.0569	9.7126	29.564
#1	-.00036	.00152	.01229	.98665	-.00161
#2	.00015	.00132	.01161	.85984	-.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 6/15/2022 19:57:17 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03096**	**.00052**	**-.00028**	**.65503**	**-.00023**
Stddev	.00745	.00005	.00009	.06332	.00002
%RSD	24.062	9.0081	31.114	9.6672	7.0429
#1	.03622	.00056	-.00022	.69981	-.00022
#2	.02569	.00049	-.00035	.61026	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00079**	**.03236**	**-.00031**	**-.00285**
Stddev	.00	.00053	.01548	.00089	.00159
%RSD	.0007	66.542	47.848	289.63	55.773
#1	25.02	-.00116	.04331	-.00094	-.00173
#2	25.02	-.00042	.02141	.00032	-.00398
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.53305**	**-.00016**	**.00069**	**1.002**	**-.00013**
Stddev	.00472	.00025	.00001	.005	.00019
%RSD	.88457	157.08	1.1059	.5083	144.82
#1	.53639	-.00034	.00070	1.006	-.00027
#2	.52972	.00002	.00069	.9988	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 6/15/2022 19:57:17 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00082**	**-.00017**	**-.00192**	**1.001**
Stddev	.00066	.00032	.00013	.000
%RSD	80.489	181.75	6.5718	.0132
#1	-.00129	.00005	-.00183	1.001
#2	-.00035	-.00040	-.00201	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3159.4**	**2517.4**	**24738.**	**3568.7**
Stddev	1.5	4.1	61.	7.6
%RSD	.04829	.16188	.24544	.21161
#1	3158.3	2520.2	24781.	3563.3
#2	3160.4	2514.5	24695.	3574.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.642%	98.057%	98.291%	99.588%
Range				

Sample Name: rinse Acquired: 6/15/2022 20:01:12 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**-.02599**	**.00047**	**.03070**	**-.00001**
Stddev	.00000	.02404	.00058	.00072	.00004
%RSD	.19548	92.499	122.09	2.3564	445.46
#1	-.00081	-.04298	.00006	.03121	-.00003
#2	-.00081	-.00899	.00088	.03019	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.03454**	**-.00006**	**.0142**	**-.00010**
Stddev	.00005	.00423	.00010	.0395	.00008
%RSD	111.12	12.246	161.50	277.6	77.227
#1	.00001	.03754	.00001	-.0137	-.00005
#2	.00007	.03155	-.00013	.0421	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00077**	**.00181**	**.52508**	**-.00058**
Stddev	.00012	.00102	.00266	.02272	.00049
%RSD	69.271	133.15	146.96	4.3263	85.198
#1	-.00009	.00004	-.00007	.50902	-.00093
#2	-.00025	.00149	.00369	.54114	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 6/15/2022 20:01:12 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01082**	**.00009**	**-.00008**	**.34982**	**-.00032**
Stddev	.00638	.00004	.00007	.00018	.00014
%RSD	58.950	42.758	94.041	.05021	43.145
#1	.01533	.00012	-.00013	.34969	-.00022
#2	.00631	.00006	-.00003	.34994	-.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00068**	**.01951**	**-.00063**	**.00078**
Stddev	.00	.00003	.00084	.00299	.00016
%RSD	.0005	4.1480	4.2987	472.41	20.922
#1	25.02	-.00066	.02010	.00148	.00066
#2	25.02	-.00070	.01891	-.00274	.00089
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15842**	**-.00026**	**.00024**	**.9984**	**-.00019**
Stddev	.00805	.00041	.00001	.0010	.00037
%RSD	5.0793	155.96	5.1678	.0969	200.03
#1	.15273	.00003	.00025	.9977	.00008
#2	.16411	-.00055	.00023	.9991	-.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 6/15/2022 20:01:12 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00087**	**.00030**	**-.00183**	**.9996**
Stddev	.00003	.00083	.00003	.0001
%RSD	3.0772	278.79	1.7384	.0139
#1	-.00086	.00089	-.00185	.9997
#2	-.00089	-.00029	-.00181	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3156.3**	**2516.3**	**24900.**	**3571.8**
Stddev	.6	3.6	14.	9.9
%RSD	.02049	.14115	.05645	.27806
#1	3155.8	2513.8	24910.	3564.8
#2	3156.7	2518.8	24890.	3578.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.547%	98.017%	98.935%	99.675%
Range				

Sample Name: 480-198761-B-1-A Acquired: 6/15/2022 20:05:07 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00087**	**.48495**	**.20196**	**14.216**	**.23686**
Stddev	.00037	.01098	.00018	.018	.00006
%RSD	42.833	2.2651	.09159	.12685	.02744
#1	-.00061	.49272	.20183	14.228	.23691
#2	-.00114	.47718	.20209	14.203	.23682
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**68.863**	**.00050**	**.0013**	**.04053**
Stddev	.00000	.141	.00004	.0244	.00010
%RSD	1.2992	.20508	8.6997	1917.	.25231
#1	.00029	68.963	.00047	.0185	.04060
#2	.00030	68.763	.00053	-.0160	.04046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.25503**	**.01549**	**2.6422**	F **622.64**	**.22281**
Stddev	.00021	.00084	.0026	5.87	.00162
%RSD	.08366	5.4309	.09764	.94249	.72744
#1	.25518	.01489	2.6440	618.49	.22395
#2	.25488	.01608	2.6403	626.79	.22166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-198761-B-1-A Acquired: 6/15/2022 20:05:07 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**96.220**	**.32935**	**.00917**	F **2286.9**	**.22651**
Stddev	.074	.00071	.00013	6.2	.00070
%RSD	.07715	.21478	1.4126	.26895	.30776
#1	96.273	.32985	.00926	2291.3	.22602
#2	96.168	.32885	.00908	2282.6	.22700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.00**	**.00609**	**38.048**	**.03430**	**.00313**
Stddev	.00	.00099	.083	.00078	.00007
%RSD	.0056	16.233	.21813	2.2667	2.3082
#1	30.00	.00539	38.107	.03375	.00308
#2	30.00	.00679	37.990	.03485	.00318
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.129**	**.03747**	**.64848**	**.9969**	**.17200**
Stddev	.023	.00007	.00167	.0065	.00047
%RSD	.10994	.19274	.25733	.6495	.27146
#1	21.145	.03741	.64966	1.001	.17233
#2	21.112	.03752	.64730	.9923	.17167
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198761-B-1-A Acquired: 6/15/2022 20:05:07 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00338**	**.07326**	**.10437**	**1.036**
Stddev	.00055	.00020	.00083	.000
%RSD	16.168	.27312	.79370	.0183
#1	-.00376	.07340	.10495	1.036
#2	-.00299	.07312	.10378	1.037
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2211.9**	**2133.3**	**19691.**	**3459.7**
Stddev	10.4	8.5	32.	14.0
%RSD	.47052	.40058	.16135	.40603
#1	2219.2	2139.3	19668.	3469.6
#2	2204.5	2127.2	19713.	3449.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	69.060%	83.095%	78.238%	96.545%
Range				

Sample Name: 480-198876-R-1-A Acquired: 6/15/2022 20:09:04 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.01129**	**.00898**	**2.7349**	**2.1895**
Stddev	.00037	.00049	.00041	.0025	.0097
%RSD	67.117	4.3270	4.5741	.09040	.44366
#1	-.00080	.01095	.00869	2.7332	2.1964
#2	-.00029	.01164	.00927	2.7367	2.1826
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**125.86**	**.00040**	**-.0093**	**.00892**
Stddev	.00013	.54	.00013	.0057	.00005
%RSD	279.46	.42635	33.084	60.92	.59551
#1	-.00004	126.24	.00031	-.0053	.00896
#2	.00014	125.48	.00049	-.0133	.00888
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00667**	**.00217**	**29.950**	**170.38**	**.03053**
Stddev	.00029	.00004	.164	.53	.00128
%RSD	4.3349	2.0270	.54883	.30886	4.2072
#1	.00687	.00214	30.066	170.75	.03143
#2	.00646	.00221	29.834	170.01	.02962
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198876-R-1-A Acquired: 6/15/2022 20:09:04 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**80.611**	**1.3846**	**.00155**	**458.87**	**.06906**
Stddev	.208	.0003	.00010	2.52	.00029
%RSD	.25844	.02305	6.5064	.55011	.42133
#1	80.463	1.3848	.00162	460.65	.06885
#2	80.758	1.3843	.00148	457.08	.06926
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.47**	**.00440**	**5.2004**	**.00537**	**.00379**
Stddev	.00	.00079	.0030	.00127	.00158
%RSD	.0068	17.926	.05847	23.692	41.666
#1	25.47	.00384	5.2026	.00447	.00490
#2	25.47	.00496	5.1983	.00626	.00267
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.327**	**.00289**	**.78232**	**1.012**	**.00235**
Stddev	.052	.00022	.00482	.007	.00059
%RSD	.42591	7.4626	.61559	.6781	24.861
#1	12.290	.00274	.78572	1.017	.00277
#2	12.364	.00304	.77891	1.007	.00194
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198876-R-1-A Acquired: 6/15/2022 20:09:04 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00077**	**.00214**	**.01181**	**1.008**
Stddev	.00059	.00044	.00038	.000
%RSD	77.561	20.424	3.1983	.0301
#1	-.00119	.00183	.01208	1.008
#2	-.00035	.00245	.01154	1.008
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2478.5**	**2260.6**	**21872.**	**3492.3**
Stddev	7.0	6.4	57.	16.8
%RSD	.28335	.28320	.26144	.47976
#1	2483.4	2265.1	21913.	3480.5
#2	2473.5	2256.0	21832.	3504.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.384%	88.054%	86.905%	97.457%
Range				

Sample Name: 480-198880-A-14-B Acquired: 6/15/2022 20:13:04 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.13817**	**-.00013**	**1.0737**	**.01876**
Stddev	.00015	.01049	.00099	.0004	.00001
%RSD	52.695	7.5924	746.90	.03969	.04342
#1	-.00018	.14558	.00057	1.0740	.01876
#2	-.00039	.13075	-.00083	1.0734	.01877
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**7.6510**	**.00009**	**.0229**	**.00006**
Stddev	.00007	.0231	.00007	.0130	.00030
%RSD	298.04	.30226	82.101	56.94	517.73
#1	-.00007	7.6673	.00014	.0321	-.00015
#2	.00003	7.6346	.00004	.0137	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09154**	**.26240**	**.42671**	**14.064**	**.00411**
Stddev	.00018	.00035	.00734	.072	.00106
%RSD	.20052	.13349	1.7211	.51327	25.819
#1	.09141	.26265	.43190	14.115	.00486
#2	.09167	.26215	.42151	14.013	.00336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198880-A-14-B Acquired: 6/15/2022 20:13:04 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.7327**	**.01537**	**.00891**	**469.40**	**.04267**
Stddev	.0001	.00019	.00072	1.84	.00062
%RSD	.00266	1.2327	8.0400	.39221	1.4418
#1	1.7327	.01550	.00942	470.71	.04311
#2	1.7327	.01524	.00841	468.10	.04224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.07**	**.00033**	F **182.60**	**.00064**	**.00195**
Stddev	.00	.00051	.14	.00041	.00091
%RSD	.0160	155.80	.07496	64.710	46.725
#1	27.07	-.00003	182.50	.00093	.00260
#2	27.08	.00069	182.70	.00035	.00131
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.3427**	**.02034**	**.02923**	**1.000**	**.00400**
Stddev	.0074	.00025	.00026	.004	.00026
%RSD	.22262	1.2491	.87654	.3770	6.6066
#1	3.3480	.02052	.02941	1.003	.00382
#2	3.3375	.02016	.02905	.9977	.00419
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198880-A-14-B Acquired: 6/15/2022 20:13:04 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00070**	**.00021**	**.34281**	**1.001**
Stddev	.00032	.00013	.00053	.001
%RSD	45.925	61.023	.15338	.1299
#1	-.00047	.00030	.34318	1.002
#2	-.00092	.00012	.34243	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2641.1**	**2361.8**	**22568.**	**3605.0**
Stddev	4.6	.2	13.	10.8
%RSD	.17558	.00977	.05626	.30092
#1	2637.8	2362.0	22559.	3597.3
#2	2644.4	2361.6	22577.	3612.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.462%	91.997%	89.668%	100.60%
Range				

Sample Name: MB 480-629870/1-A Acquired: 6/15/2022 20:17:00 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**-.01604**	**.00215**	F **.02076**	**.00006**
Stddev	.00058	.01714	.00122	.00024	.00005
%RSD	147.78	106.86	56.989	1.1597	78.240
#1	-.00081	-.02816	.00128	.02093	.00010
#2	.00002	-.00392	.00301	.02059	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.02000	
Low Limit				-.00800	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.02005**	**-.00004**	**.0392**	**-.00002**
Stddev	.00006	.00374	.00005	.0041	.00006
%RSD	129.03	18.646	136.21	10.54	331.37
#1	.00008	.02269	-.00000	.0362	.00003
#2	.00000	.01741	-.00007	.0421	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00133**	**-.00006**	F **.52101**	**-.00154**
Stddev	.00003	.00012	.00284	.01486	.00017
%RSD	15.722	8.6677	4655.6	2.8524	10.931
#1	.00016	.00125	.00195	.51050	-.00142
#2	.00020	.00141	-.00207	.53152	-.00166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.50000	
Low Limit				-.50000	

Sample Name: MB 480-629870/1-A Acquired: 6/15/2022 20:17:00 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00635**	**.00014**	**-.00005**	**.49776**	**.00013**
Stddev	.00323	.00003	.00001	.10035	.00021
%RSD	50.905	22.159	11.164	20.161	159.24
#1	.00864	.00016	-.00005	.56872	-.00002
#2	.00406	.00012	-.00004	.42680	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00055**	**.02682**	**-.00084**	**-.00455**
Stddev	.00	.00074	.00059	.00104	.00068
%RSD	.0011	133.53	2.2150	124.02	15.004
#1	25.02	-.00003	.02640	-.00010	-.00407
#2	25.02	-.00108	.02724	-.00158	-.00503
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05987**	**.00011**	**.00007**	**.9951**	**.00034**
Stddev	.01368	.00020	.00010	.0082	.00029
%RSD	22.844	183.24	138.57	.8247	87.116
#1	.06954	.00026	.00014	.9893	.00013
#2	.05020	-.00003	.00000	1.001	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629870/1-A Acquired: 6/15/2022 20:17:00 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00030**	**-.00042**	**-.00136**	**1.001**
Stddev	.00007	.00040	.00018	.001
%RSD	22.402	95.097	13.026	.1032
#1	-.00034	-.00069	-.00124	1.002
#2	-.00025	-.00014	-.00149	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3212.0**	**2551.5**	**25316.**	**3656.0**
Stddev	4.7	5.3	60.	13.2
%RSD	.14660	.20692	.23601	.36142
#1	3208.6	2547.7	25359.	3646.6
#2	3215.3	2555.2	25274.	3665.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.29%	99.385%	100.59%	102.02%
Range				

Sample Name: LCS 480-629870/2-A Acquired: 6/15/2022 20:20:55 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04707**	**9.5917**	**.19597**	**.21669**	**.20591**
Stddev	.00067	.0200	.00099	.00013	.00039
%RSD	1.4244	.20862	.50358	.06115	.18843
#1	.04755	9.6059	.19527	.21679	.20618
#2	.04660	9.5776	.19667	.21660	.20563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19979**	**9.3225**	**.19340**	**.0002**	**.18808**
Stddev	.00013	.0073	.00014	.0135	.00005
%RSD	.06487	.07844	.07180	6672.	.02750
#1	.19969	9.3173	.19330	.0097	.18804
#2	.19988	9.3276	.19350	-.0093	.18811
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20068**	**.19817**	**9.5964**	**9.7070**	**.19022**
Stddev	.00019	.00051	.0005	.0053	.00090
%RSD	.09327	.25562	.00490	.05472	.47186
#1	.20055	.19782	9.5961	9.7108	.19085
#2	.20081	.19853	9.5968	9.7033	.18958
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629870/2-A Acquired: 6/15/2022 20:20:55 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8768**	**.19964**	**.20763**	**9.5586**	**.18416**
Stddev	.0417	.00012	.00035	.0105	.00015
%RSD	.42177	.06161	.16774	.10974	.08327
#1	9.9062	.19955	.20738	9.5660	.18427
#2	9.8473	.19973	.20787	9.5512	.18405
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.74**	**.18385**	**9.4194**	**.20438**	**.19913**
Stddev	.00	.00145	.0109	.00068	.00203
%RSD	.0051	.78648	.11523	.33101	1.0175
#1	24.74	.18283	9.4271	.20390	.20056
#2	24.75	.18487	9.4118	.20486	.19769
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2444**	**.22186**	**.19936**	**1.006**	**.19545**
Stddev	.0388	.00048	.00059	.002	.00032
%RSD	.42010	.21746	.29824	.2401	.16144
#1	9.2169	.22220	.19978	1.004	.19522
#2	9.2718	.22152	.19894	1.008	.19567
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629870/2-A Acquired: 6/15/2022 20:20:55 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19518**	**.20005**	**.18346**	**1.001**
Stddev	.00128	.00082	.00044	.001
%RSD	.65621	.40851	.24097	.0556
#1	.19428	.20063	.18377	1.001
#2	.19609	.19947	.18314	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3019.9**	**2504.9**	**24623.**	**3627.7**
Stddev	1.8	2.7	9.	4.1
%RSD	.06086	.10731	.03750	.11376
#1	3021.2	2506.8	24616.	3630.6
#2	3018.6	2503.0	24629.	3624.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.290%	97.570%	97.835%	101.24%
Range				

Sample Name: CCV-7032336 Acquired: 6/15/2022 20:24:39 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0052**	**49.965**	**1.0311**	**1.0932**	**1.0481**
Stddev	.0033	.076	.0043	.0042	.0022
%RSD	.32870	.15152	.41197	.37986	.21378
#1	1.0075	50.019	1.0341	1.0961	1.0466
#2	1.0028	49.912	1.0281	1.0903	1.0497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0158**	**49.257**	**1.0282**	**1.070**	**1.0001**
Stddev	.0035	.130	.0025	.018	.0049
%RSD	.34153	.26405	.24270	1.723	.49372
#1	1.0134	49.166	1.0299	1.083	1.0036
#2	1.0183	49.349	1.0264	1.057	.99657
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0544**	**1.0167**	**49.398**	**51.835**	**1.0321**
Stddev	.0045	.0036	.090	.255	.0049
%RSD	.42952	.35332	.18192	.49173	.47815
#1	1.0576	1.0193	49.335	51.655	1.0287
#2	1.0512	1.0142	49.462	52.015	1.0356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 20:24:39 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.828**	**1.0420**	**1.0627**	**51.857**	**1.0114**
Stddev	.198	.0060	.0016	.199	.0041
%RSD	.38904	.57540	.15280	.38289	.40741
#1	50.968	1.0463	1.0638	51.716	1.0143
#2	50.688	1.0378	1.0615	51.997	1.0085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.77**	**.99139**	**25.225**	**1.0249**	**1.0633**
Stddev	.05	.00448	.082	.0002	.0033
%RSD	.1390	.45193	.32546	.01955	.30905
#1	37.81	.99456	25.283	1.0248	1.0656
#2	37.74	.98822	25.167	1.0251	1.0610
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9379**	**.98285**	**1.0312**	**1.503**	**1.0103**
Stddev	.0872	.00347	.0018	.003	.0061
%RSD	.87763	.35320	.17587	.2186	.60203
#1	9.8762	.98530	1.0299	1.506	1.0146
#2	9.9995	.98039	1.0325	1.501	1.0060
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 20:24:39 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0403**	**1.0567**	**.99411**	**1.525**
Stddev	.0069	.0039	.00467	.001
%RSD	.66087	.36960	.47000	.0837
#1	1.0451	1.0595	.99741	1.524
#2	1.0354	1.0539	.99081	1.526
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2683.5**	**2390.3**	**22952.**	**3469.5**
Stddev	5.7	.7	112.	17.8
%RSD	.21393	.03112	.48830	.51417
#1	2679.4	2389.7	22873.	3482.1
#2	2687.5	2390.8	23031.	3456.9

Sample Name: CCB-7026764 Acquired: 6/15/2022 20:28:20 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**-.03273**	**.00105**	**.01158**	**.00004**
Stddev	.00027	.02400	.00007	.00008	.00005
%RSD	59.645	73.345	6.8249	.65952	102.47
#1	-.00065	-.04970	.00110	.01153	.00001
#2	-.00026	-.01575	.00100	.01164	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.00081**	**-.00008**	**.0359**	**-.00001**
Stddev	.00010	.00090	.00008	.0207	.00004
%RSD	66.635	111.58	101.12	57.72	658.37
#1	.00023	.00145	-.00002	.0213	.00002
#2	.00008	.00017	-.00013	.0506	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00225**	**.00027**	**.15245**	**-.00107**
Stddev	.00022	.00021	.00065	.02836	.00001
%RSD	112.26	9.3446	240.30	18.602	1.3057
#1	.00004	.00210	-.00019	.17250	-.00106
#2	.00034	.00240	.00072	.13239	-.00108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 20:28:20 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00083**	**-.00005**	**.00021**	**.09255**	**.00023**
Stddev	.00096	.00002	.00011	.00510	.00011
%RSD	114.75	34.460	51.196	5.5150	50.478
#1	.00016	-.00004	.00014	.08894	.00015
#2	.00151	-.00006	.00029	.09616	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00000**	**.01654**	**.00080**	**.00137**
Stddev	.00	.00013	.00264	.00010	.00367
%RSD	.0039	8060.2	15.988	12.245	267.85
#1	25.02	-.00009	.01841	.00087	.00397
#2	25.02	.00009	.01467	.00074	-.00123
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01469**	**.00010**	**.00005**	**1.004**	**-.00023**
Stddev	.02494	.00034	.00010	.005	.00031
%RSD	169.82	344.58	216.98	.5222	137.08
#1	-.00295	-.00014	.00012	1.001	-.00001
#2	.03232	.00034	-.00003	1.008	-.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 20:28:20 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00122**	**-.00047**	**-.00198**	**1.001**
Stddev	.00087	.00015	.00008	.002
%RSD	71.038	30.765	4.0611	.1584
#1	-.00061	-.00057	-.00193	1.000
#2	-.00184	-.00037	-.00204	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3187.8**	**2542.1**	**25274.**	**3605.2**
Stddev	1.8	4.0	29.	.6
%RSD	.05501	.15767	.11624	.01574
#1	3189.1	2544.9	25253.	3605.6
#2	3186.6	2539.3	25295.	3604.8

Sample Name: CCVL-7028546 Acquired: 6/15/2022 20:32:17 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00505**	**.16935**	**.01469**	W **.02901**	**.00213**
Stddev	.00070	.01613	.00080	.00032	.00003
%RSD	13.894	9.5229	5.4292	1.0860	1.2429
#1	.00554	.15795	.01412	.02879	.00211
#2	.00455	.18076	.01525	.02923	.00215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				.02000	
Range				30.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.47918**	**.00190**	**.0102**	**.00379**
Stddev	.00004	.00103	.00003	.0021	.00003
%RSD	2.1901	.21578	1.5783	20.79	.68633
#1	.00209	.47845	.00192	.0117	.00380
#2	.00202	.47992	.00188	.0087	.00377
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00445**	**.01149**	**.04597**	**.59139**	**.02629**
Stddev	.00038	.00016	.00194	.00890	.00224
%RSD	8.5173	1.3964	4.2096	1.5053	8.5327
#1	.00418	.01138	.04460	.59769	.02470
#2	.00472	.01161	.04734	.58510	.02787
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/15/2022 20:32:17 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19103**	**.00322**	**.01038**	**1.0421**	**.00972**
Stddev	.00469	.00005	.00001	.0046	.00008
%RSD	2.4567	1.5001	.07674	.44279	.85813
#1	.19435	.00318	.01038	1.0454	.00978
#2	.18771	.00325	.01039	1.0388	.00966
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00756**	**.20280**	**.02008**	**.02178**
Stddev	.00	.00103	.00034	.00069	.00420
%RSD	.0065	13.698	.16724	3.4337	19.269
#1	25.00	.00829	.20256	.02057	.01881
#2	25.00	.00682	.20304	.01959	.02475
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45670**	**.00884**	**.00498**	F **.9969**	**.00471**
Stddev	.00581	.00016	.00007	.0016	.00053
%RSD	1.2717	1.8655	1.4537	.1588	11.273
#1	.46080	.00872	.00503	.9981	.00508
#2	.45259	.00896	.00493	.9958	.00433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/15/2022 20:32:17 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01956**	**.00481**	**.01024**	F **1.001**
Stddev	.00189	.00046	.00013	.000
%RSD	9.6673	9.5994	1.2562	.0310
#1	.01823	.00514	.01015	1.001
#2	.02090	.00449	.01033	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3175.7**	**2531.9**	**24979.**	**3572.7**
Stddev	2.2	.4	52.	38.1
%RSD	.06804	.01454	.20730	1.0655
#1	3174.2	2532.2	25016.	3599.7
#2	3177.2	2531.7	24942.	3545.8

Sample Name: 620-4969-J-1-C Acquired: 6/15/2022 20:36:12 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00098**	**.01868**	**.00174**	**.06165**	**.13813**
Stddev	.00038	.00389	.00056	.00023	.00016
%RSD	38.829	20.843	32.353	.37237	.11297
#1	-.00124	.02143	.00214	.06181	.13824
#2	-.00071	.01593	.00134	.06149	.13802
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**17.301**	**.01030**	**.0125**	**-.00015**
Stddev	.00001	.021	.00003	.0337	.00001
%RSD	7.0081	.12270	.24958	269.1	4.6912
#1	.00012	17.286	.01028	.0364	-.00014
#2	.00013	17.316	.01032	-.0113	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.00631**	**.02572**	**7.6258**	**-.00152**
Stddev	.00031	.00081	.00065	.0812	.00120
%RSD	78.605	12.877	2.5276	1.0643	79.166
#1	.00061	.00573	.02526	7.5685	-.00067
#2	.00017	.00688	.02618	7.6832	-.00237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4969-J-1-C Acquired: 6/15/2022 20:36:12 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0302**	**.02618**	**-.00008**	**389.49**	**.00033**
Stddev	.0033	.00004	.00004	1.06	.00003
%RSD	.16227	.14116	47.294	.27177	9.9615
#1	2.0279	.02621	-.00005	388.74	.00031
#2	2.0325	.02616	-.00010	390.23	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00022**	**17.223**	**.00184**	**.00272**
Stddev	.00	.00058	.002	.00189	.00126
%RSD	.0045	268.71	.01386	102.61	46.191
#1	25.02	.00019	17.224	.00051	.00361
#2	25.02	-.00063	17.221	.00318	.00183
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.3489**	**-.00007**	**.13792**	**.9997**	**-.00037**
Stddev	.0257	.00025	.00042	.0021	.00024
%RSD	.59088	366.40	.30719	.2076	64.124
#1	4.3308	.00011	.13762	.9983	-.00054
#2	4.3671	-.00025	.13822	1.001	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4969-J-1-C Acquired: 6/15/2022 20:36:12 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.00011**	**.00597**	**1.001**
Stddev	.00140	.00003	.00005	.000
%RSD	195.73	22.938	.75953	.0198
#1	.00027	.00009	.00593	1.001
#2	-.00170	.00013	.00600	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2668.6**	**2361.6**	**22679.**	**3527.0**
Stddev	1.1	1.1	49.	27.6
%RSD	.04099	.04744	.21400	.78303
#1	2667.9	2362.4	22714.	3546.5
#2	2669.4	2360.8	22645.	3507.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.321%	91.989%	90.113%	98.424%
Range				

Sample Name: 620-4969-J-2-C Acquired: 6/15/2022 20:40:11 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00144**	**.00356**	**.00114**	**1.4210**	**.47416**
Stddev	.00084	.00544	.00201	.0060	.00083
%RSD	58.435	152.88	175.92	.42345	.17454
#1	-.00084	-.00029	.00257	1.4253	.47358
#2	-.00203	.00741	-.00028	1.4168	.47475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**129.73**	**-.00016**	**.0132**	**-.00002**
Stddev	.00010	.13	.00007	.0166	.00001
%RSD	110.32	.10402	42.311	126.1	71.681
#1	.00002	129.83	-.00020	.0249	-.00003
#2	.00015	129.63	-.00011	.0014	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.02022**	**21.736**	**54.463**	**-.00348**
Stddev	.00060	.00021	.028	.088	.00059
%RSD	108.46	1.0309	.12713	.16224	17.010
#1	.00097	.02007	21.755	54.525	-.00390
#2	.00013	.02037	21.716	54.401	-.00307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4969-J-2-C Acquired: 6/15/2022 20:40:11 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.099**	**2.0606**	**-.00041**	**526.63**	**.00290**
Stddev	.024	.0018	.00024	.36	.00002
%RSD	.07963	.08772	57.338	.06910	.63930
#1	30.082	2.0593	-.00058	526.89	.00289
#2	30.116	2.0619	-.00024	526.37	.00291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00188**	**13.430**	**.00327**	**.00440**
Stddev	.00	.00008	.062	.00065	.00143
%RSD	.0033	4.3545	.46078	19.942	32.469
#1	25.02	.00194	13.474	.00373	.00541
#2	25.02	.00182	13.386	.00281	.00339
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.6664**	**-.00041**	**.87729**	**1.009**	**.00062**
Stddev	.0107	.00020	.00101	.000	.00012
%RSD	.22951	50.137	.11543	.0149	19.231
#1	4.6588	-.00055	.87658	1.009	.00070
#2	4.6740	-.00026	.87801	1.009	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4969-J-2-C Acquired: 6/15/2022 20:40:11 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00258**	**.00537**	**.00384**	**1.000**
Stddev	.00010	.00026	.00022	.001
%RSD	3.9147	4.7658	5.8251	.1006
#1	-.00251	.00555	.00368	1.001
#2	-.00265	.00519	.00400	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2515.0**	**2288.0**	**21955.**	**3497.8**
Stddev	7.5	2.4	12.	6.2
%RSD	.29691	.10676	.05246	.17625
#1	2520.3	2289.7	21947.	3493.4
#2	2509.7	2286.3	21964.	3502.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.524%	89.123%	87.236%	97.608%
Range				

Sample Name: 620-4969-J-3-C Acquired: 6/15/2022 20:44:06 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.01115**	**.02794**	**.50782**	**.22562**
Stddev	.00134	.00832	.00138	.00004	.00112
%RSD	296.15	74.622	4.9328	.00725	.49772
#1	-.00140	.01703	.02697	.50780	.22483
#2	.00049	.00527	.02892	.50785	.22642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**112.42**	**-.00009**	**.0012**	**.00053**
Stddev	.00006	.37	.00010	.0119	.00002
%RSD	847.72	.32669	106.19	975.6	3.4918
#1	-.00005	112.68	-.00016	.0096	.00055
#2	.00004	112.16	-.00002	-.0072	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00092**	**.01677**	**53.993**	**37.193**	**-.00224**
Stddev	.00020	.00031	.369	.121	.00081
%RSD	22.251	1.8478	.68329	.32662	36.048
#1	.00106	.01655	54.254	37.279	-.00167
#2	.00077	.01699	53.732	37.108	-.00281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4969-J-3-C Acquired: 6/15/2022 20:44:06 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.096**	**.85475**	**-.00045**	**92.316**	**.00255**
Stddev	.155	.00280	.00012	.164	.00020
%RSD	.73424	.32736	26.537	.17729	7.8509
#1	20.986	.85277	-.00054	92.432	.00269
#2	21.205	.85673	-.00037	92.200	.00241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.96**	**.00387**	**13.910**	**.00928**	**.00623**
Stddev	.00	.00017	.008	.00065	.00455
%RSD	.0034	4.5099	.05423	7.0370	72.960
#1	24.96	.00375	13.905	.00974	.00945
#2	24.96	.00399	13.916	.00882	.00302
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.8678**	**.00055**	**.59350**	**1.024**	**.00054**
Stddev	.0249	.00009	.00186	.003	.00015
%RSD	.28078	15.915	.31375	.2612	27.531
#1	8.8854	.00049	.59482	1.022	.00064
#2	8.8502	.00061	.59218	1.026	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4969-J-3-C Acquired: 6/15/2022 20:44:06 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00140**	**.00043**	**.00722**	**1.002**
Stddev	.00107	.00001	.00044	.002
%RSD	76.578	2.0013	6.1387	.2384
#1	-.00064	.00043	.00691	1.003
#2	-.00216	.00044	.00753	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2702.8**	**2368.6**	**23053.**	**3525.2**
Stddev	3.0	2.5	73.	15.2
%RSD	.11188	.10479	.31800	.43031
#1	2700.7	2366.8	23104.	3514.4
#2	2705.0	2370.3	23001.	3535.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.389%	92.261%	91.595%	98.373%
Range				

Sample Name: 620-4969-J-4-C Acquired: 6/15/2022 20:47:56 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**-.01340**	**.00362**	**.08406**	**.05496**
Stddev	.00006	.00295	.00146	.00007	.00022
%RSD	3389.7	21.991	40.283	.07821	.40428
#1	-.00004	-.01549	.00259	.08411	.05480
#2	.00005	-.01132	.00466	.08402	.05512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**25.245**	**-.00018**	**-.0013**	**.00185**
Stddev	.00002	.101	.00009	.0107	.00008
%RSD	43.039	.40194	49.060	815.4	4.4976
#1	.00003	25.317	-.00012	-.0089	.00191
#2	.00006	25.173	-.00024	.0063	.00180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00361**	**11.893**	**9.4290**	**-.00234**
Stddev	.00026	.00038	.061	.0916	.00047
%RSD	277.73	10.621	.51674	.97092	19.923
#1	-.00009	.00334	11.936	9.4937	-.00201
#2	.00028	.00388	11.850	9.3643	-.00266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4969-J-4-C Acquired: 6/15/2022 20:47:56 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.9058**	**1.4886**	**.00005**	**14.744**	**.00088**
Stddev	.0031	.0037	.00008	.042	.00013
%RSD	.07994	.25209	170.49	.28557	15.358
#1	3.9036	1.4860	-.00001	14.774	.00078
#2	3.9081	1.4913	.00010	14.714	.00097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00006**	**9.2445**	**.00134**	**-.00084**
Stddev	.00	.00045	.0013	.00135	.00036
%RSD	.0012	771.95	.01431	101.29	42.461
#1	25.01	.00038	9.2454	.00229	-.00059
#2	25.01	-.00026	9.2435	.00038	-.00109
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.0230**	**-.00014**	**.11126**	**1.002**	**-.00011**
Stddev	.0132	.00023	.00019	.006	.00001
%RSD	.32833	169.36	.17211	.5856	7.9332
#1	4.0323	.00003	.11139	1.006	-.00010
#2	4.0136	-.00030	.11112	.9980	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4969-J-4-C Acquired: 6/15/2022 20:47:56 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00041**	**.00021**	**.01829**	**.9997**
Stddev	.00024	.00028	.00013	.0008
%RSD	56.900	134.43	.73347	.0808
#1	.00025	.00041	.01820	.9991
#2	.00058	.00001	.01839	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2976.6**	**2454.3**	**24103.**	**3504.6**
Stddev	2.7	2.3	81.	25.7
%RSD	.08954	.09332	.33807	.73461
#1	2978.5	2456.0	24161.	3486.4
#2	2974.7	2452.7	24045.	3522.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.936%	95.603%	95.769%	97.799%
Range				

Sample Name: 620-4969-J-5-C Acquired: 6/15/2022 20:51:47 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.07077**	**.00381**	**.04834**	**.04023**
Stddev	.00035	.00176	.00006	.00038	.00010
%RSD	930.98	2.4867	1.4872	.78548	.23694
#1	.00029	.06952	.00385	.04861	.04016
#2	-.00021	.07201	.00377	.04807	.04029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**22.203**	**-.00005**	**.0308**	**.00146**
Stddev	.00009	.111	.00000	.0324	.00004
%RSD	165.52	.49880	.99355	105.4	2.8826
#1	-.00001	22.281	-.00005	.0078	.00149
#2	.00012	22.124	-.00005	.0537	.00143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.00487**	**4.5205**	**4.6471**	**-.00210**
Stddev	.00055	.00075	.0242	.0131	.00043
%RSD	156.40	15.331	.53425	.28095	20.509
#1	.00075	.00540	4.5376	4.6563	-.00179
#2	-.00004	.00434	4.5034	4.6379	-.00240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4969-J-5-C Acquired: 6/15/2022 20:51:47 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.0350**	**.40231**	**.00038**	**6.3660**	**.00033**
Stddev	.0253	.00178	.00014	.0130	.00011
%RSD	.83258	.44321	37.266	.20401	33.642
#1	3.0171	.40105	.00048	6.3752	.00041
#2	3.0529	.40357	.00028	6.3568	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**-.00091**	**2.7248**	**.00059**	**.00293**
Stddev	.00	.00123	.0023	.00096	.00200
%RSD	.0068	135.94	.08396	163.36	68.251
#1	25.05	-.00004	2.7264	-.00009	.00434
#2	25.05	-.00178	2.7231	.00127	.00152
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.1991**	**-.00011**	**.07914**	**1.001**	**.00119**
Stddev	.0054	.00000	.00001	.007	.00033
%RSD	.12782	.38307	.01292	.6815	27.769
#1	4.2029	-.00011	.07913	1.005	.00095
#2	4.1953	-.00011	.07915	.9957	.00142
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4969-J-5-C Acquired: 6/15/2022 20:51:47 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00291**	**.00169**	**.00387**	**1.001**
Stddev	.00085	.00018	.00010	.000
%RSD	29.128	10.905	2.5468	.0414
#1	-.00231	.00182	.00380	1.000
#2	-.00350	.00156	.00394	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3053.8**	**2495.0**	**24558.**	**3625.4**
Stddev	3.7	4.1	215.	20.9
%RSD	.12212	.16241	.87373	.57547
#1	3051.1	2492.1	24709.	3610.7
#2	3056.4	2497.9	24406.	3640.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.346%	97.187%	97.576%	101.17%
Range				

Sample Name: 620-4969-J-6-C Acquired: 6/15/2022 20:55:38 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00392**	**.00174**	**.08008**	**.03908**
Stddev	.00017	.04027	.00053	.00024	.00017
%RSD	2625.8	1028.6	30.386	.30048	.42867
#1	-.00013	-.02456	.00211	.07991	.03919
#2	.00011	.03239	.00136	.08025	.03896
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**66.545**	**.00007**	**.0527**	**.00014**
Stddev	.00003	.163	.00001	.0040	.00005
%RSD	150.53	.24419	22.111	7.573	35.109
#1	-.00000	66.430	.00008	.0555	.00011
#2	.00005	66.660	.00006	.0499	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.00666**	**.04351**	**7.9283**	**-.00217**
Stddev	.00011	.00010	.00026	.0135	.00073
%RSD	30.850	1.5496	.60206	.17013	33.554
#1	.00045	.00674	.04332	7.9188	-.00166
#2	.00029	.00659	.04369	7.9379	-.00269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4969-J-6-C Acquired: 6/15/2022 20:55:38 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8555**	**.00991**	**.00171**	**13.024**	**.00049**
Stddev	.0298	.00012	.00004	.033	.00039
%RSD	.30248	1.2368	2.2994	.25605	79.728
#1	9.8766	.01000	.00174	13.000	.00076
#2	9.8345	.00983	.00169	13.048	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00041**	**5.2745**	**.00263**	**-.00202**
Stddev	.00	.00085	.0109	.00173	.00022
%RSD	.0070	209.18	.20567	65.949	11.078
#1	25.03	-.00020	5.2669	.00140	-.00186
#2	25.03	.00101	5.2822	.00385	-.00218
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2519**	**-.00007**	**.30503**	**.9921**	**.00027**
Stddev	.0344	.00012	.00069	.0054	.00025
%RSD	.65502	173.09	.22681	.5476	93.802
#1	5.2276	.00002	.30454	.9882	.00009
#2	5.2763	-.00015	.30552	.9959	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4969-J-6-C Acquired: 6/15/2022 20:55:38 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00081**	**.00136**	**-.00037**	**1.000**
Stddev	.00060	.00037	.00029	.001
%RSD	74.323	27.019	77.252	.0691
#1	-.00039	.00162	-.00017	.9999
#2	-.00124	.00110	-.00058	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2916.8**	**2427.4**	**23673.**	**3518.0**
Stddev	3.6	2.1	59.	14.0
%RSD	.12418	.08485	.24819	.39778
#1	2914.3	2425.9	23632.	3527.9
#2	2919.4	2428.8	23715.	3508.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.070%	94.552%	94.062%	98.173%
Range				

Sample Name: 620-4969-J-6-Csd@5 Acquired: 6/15/2022 20:59:32 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**-.00584**	**-.00004**	**.01829**	**.00818**
Stddev	.00005	.02878	.00334	.00048	.00003
%RSD	9.1542	492.89	9298.7	2.6507	.31325
#1	.00059	.01451	.00232	.01863	.00820
#2	.00052	-.02619	-.00240	.01794	.00816
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**13.242**	**-.00008**	**.0291**	**-.00005**
Stddev	.00001	.041	.00012	.0124	.00005
%RSD	27.467	.31110	151.30	42.58	103.26
#1	.00003	13.213	-.00016	.0379	-.00009
#2	.00004	13.271	.00001	.0203	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00203**	**.00429**	**1.6126**	**-.00102**
Stddev	.00006	.00070	.00211	.0153	.00110
%RSD	107.60	34.441	49.155	.95072	108.71
#1	.00001	.00252	.00280	1.6017	-.00180
#2	.00010	.00154	.00578	1.6234	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4969-J-6-Csd@5 Acquired: 6/15/2022 20:59:32 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9857**	**.00188**	**.00016**	**2.6147**	**.00008**
Stddev	.0039	.00003	.00005	.0063	.00018
%RSD	.19603	1.5893	29.909	.24127	229.61
#1	1.9885	.00190	.00020	2.6102	-.00005
#2	1.9830	.00186	.00013	2.6191	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00029**	**1.0361**	**-.00056**	**-.00440**
Stddev	.00	.00085	.0039	.00081	.00191
%RSD	.0006	288.81	.37606	144.27	43.286
#1	25.02	-.00090	1.0334	-.00113	-.00575
#2	25.02	.00031	1.0389	.00001	-.00306
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0453**	**-.00013**	**.06152**	**1.002**	**-.00008**
Stddev	.0069	.00023	.00031	.002	.00036
%RSD	.65958	172.48	.51024	.2129	458.21
#1	1.0502	.00003	.06175	1.000	-.00034
#2	1.0405	-.00029	.06130	1.003	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4969-J-6-Csd@5 Acquired: 6/15/2022 20:59:32 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00027**	**-.00097**	**1.001**
Stddev	.00094	.00054	.00002	.000
%RSD	304.63	201.93	1.8667	.0208
#1	.00036	.00065	-.00096	1.001
#2	-.00097	-.00011	-.00098	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3116.9**	**2510.3**	**24377.**	**3570.9**
Stddev	10.7	6.3	71.	13.2
%RSD	.34425	.24940	.29112	.37028
#1	3109.3	2505.9	24427.	3580.3
#2	3124.5	2514.8	24326.	3561.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.316%	97.784%	96.856%	99.650%
Range				

Sample Name: 620-4969-J-6-C PDS Acquired: 6/15/2022 21:03:26 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05123**	**10.109**	**.21555**	**.28959**	**.25553**
Stddev	.00010	.031	.00426	.00084	.00137
%RSD	.20432	.30994	1.9768	.29173	.53676
#1	.05131	10.087	.21254	.28900	.25650
#2	.05116	10.131	.21856	.29019	.25456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21340**	**73.644**	**.20737**	**.0144**	**.20381**
Stddev	.00019	.104	.00004	.0038	.00031
%RSD	.08916	.14129	.02002	26.17	.15398
#1	.21353	73.717	.20734	.0171	.20359
#2	.21326	73.570	.20740	.0118	.20404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21735**	**.21738**	**10.166**	**17.594**	**.20228**
Stddev	.00063	.00137	.019	.004	.00024
%RSD	.29015	.62885	.18709	.02295	.12016
#1	.21780	.21835	10.153	17.591	.20211
#2	.21691	.21641	10.180	17.597	.20246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4969-J-6-C PDS Acquired: 6/15/2022 21:03:26 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.107**	**.22553**	**.22219**	**22.712**	**.20000**
Stddev	.115	.00062	.00019	.028	.00099
%RSD	.57397	.27478	.08519	.12459	.49463
#1	20.189	.22597	.22232	22.732	.19930
#2	20.026	.22510	.22205	22.692	.20070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.74**	**.20124**	**15.362**	**.22401**	**.20955**
Stddev	.00	.00164	.013	.00198	.00026
%RSD	.0098	.81245	.08713	.88605	.12194
#1	24.74	.20240	15.352	.22260	.20973
#2	24.74	.20009	15.371	.22541	.20937
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.003**	**.19853**	**.50576**	**1.006**	**.21028**
Stddev	.025	.00037	.00104	.004	.00097
%RSD	.16532	.18598	.20649	.3846	.46144
#1	14.985	.19827	.50650	1.009	.21097
#2	15.020	.19879	.50502	1.003	.20959
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4969-J-6-C PDS Acquired: 6/15/2022 21:03:26 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21254**	**.21572**	**.20048**	**1.001**
Stddev	.00213	.00130	.00211	.001
%RSD	1.0041	.60226	1.0508	.0532
#1	.21104	.21664	.20197	1.001
#2	.21405	.21480	.19899	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2859.9**	**2443.5**	**23672.**	**3587.4**
Stddev	10.1	5.6	72.	10.4
%RSD	.35434	.22844	.30224	.29012
#1	2867.1	2447.4	23622.	3580.1
#2	2852.7	2439.5	23723.	3594.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.293%	95.179%	94.058%	100.11%
Range				

Sample Name: 620-4969-J-6-D MS Acquired: 6/15/2022 21:07:09 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04849**	**9.7192**	**.20251**	**.27675**	**.24352**
Stddev	.00003	.0158	.00140	.00186	.00038
%RSD	.05528	.16278	.69193	.67384	.15430
#1	.04851	9.7303	.20350	.27807	.24326
#2	.04847	9.7080	.20152	.27543	.24379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20589**	**73.651**	**.19917**	**.0118**	**.19569**
Stddev	.00042	.041	.00065	.0037	.00005
%RSD	.20283	.05583	.32532	31.75	.02768
#1	.20619	73.622	.19963	.0144	.19573
#2	.20560	73.680	.19872	.0091	.19566
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20640**	**.20524**	**9.8387**	**17.422**	**.19316**
Stddev	.00088	.00030	.0048	.042	.00193
%RSD	.42734	.14726	.04851	.24284	.99739
#1	.20702	.20545	9.8421	17.452	.19179
#2	.20577	.20503	9.8353	17.393	.19452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4969-J-6-D MS Acquired: 6/15/2022 21:07:09 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.478**	**.21253**	**.21364**	**22.257**	**.19149**
Stddev	.017	.00025	.00052	.044	.00002
%RSD	.08481	.11921	.24317	.19597	.01031
#1	19.466	.21271	.21401	22.287	.19150
#2	19.490	.21236	.21328	22.226	.19147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.76**	**.19247**	**14.692**	**.20952**	**.20269**
Stddev	.00	.00037	.034	.00076	.00147
%RSD	.0022	.19101	.22941	.36179	.72327
#1	24.76	.19221	14.715	.20899	.20165
#2	24.76	.19273	14.668	.21006	.20372
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.296**	**.23005**	**.48960**	**1.008**	**.20209**
Stddev	.034	.00049	.00031	.002	.00019
%RSD	.23448	.21400	.06336	.1631	.09502
#1	14.273	.23039	.48982	1.007	.20195
#2	14.320	.22970	.48938	1.010	.20222
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4969-J-6-D MS Acquired: 6/15/2022 21:07:09 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20076**	**.20632**	**.19209**	**1.001**
Stddev	.00075	.00005	.00048	.001
%RSD	.37323	.02451	.24898	.0770
#1	.20129	.20636	.19243	1.001
#2	.20023	.20628	.19176	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2818.8**	**2406.0**	**23361.**	**3444.0**
Stddev	.3	1.5	10.	.2
%RSD	.00898	.06057	.04484	.00498
#1	2818.6	2404.9	23369.	3444.1
#2	2819.0	2407.0	23354.	3443.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.010%	93.718%	92.822%	96.108%
Range				

Sample Name: CCV-7032336 Acquired: 6/15/2022 21:10:56 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99906**	**49.659**	**1.0093**	**1.0616**	**1.0356**
Stddev	.00030	.045	.0002	.0017	.0008
%RSD	.03013	.08971	.02152	.16274	.07342
#1	.99927	49.690	1.0092	1.0604	1.0361
#2	.99885	49.627	1.0095	1.0628	1.0350
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0077**	**49.512**	**1.0142**	**1.029**	**.99030**
Stddev	.0031	.101	.0006	.015	.00114
%RSD	.30337	.20450	.05795	1.437	.11537
#1	1.0098	49.583	1.0138	1.040	.98950
#2	1.0055	49.440	1.0146	1.019	.99111
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0524**	**1.0040**	**49.707**	**51.061**	**1.0214**
Stddev	.0039	.0042	.193	.118	.0018
%RSD	.37318	.41704	.38773	.23124	.17616
#1	1.0551	1.0070	49.844	51.144	1.0227
#2	1.0496	1.0010	49.571	50.977	1.0202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 21:10:56 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.909**	**1.0390**	**1.0468**	**51.304**	**1.0007**
Stddev	.157	.0049	.0018	.123	.0013
%RSD	.30909	.46889	.16766	.24009	.13431
#1	51.020	1.0424	1.0455	51.392	.99977
#2	50.797	1.0355	1.0480	51.217	1.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.55**	**.98492**	**24.713**	**1.0094**	**1.0290**
Stddev	.00	.00293	.007	.0007	.0020
%RSD	.0104	.29774	.02848	.06736	.19290
#1	37.55	.98285	24.708	1.0099	1.0304
#2	37.55	.98700	24.718	1.0089	1.0276
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8517**	**.97490**	**1.0182**	**1.506**	**1.0068**
Stddev	.0188	.00082	.0025	.009	.0031
%RSD	.19136	.08432	.24476	.5776	.31190
#1	9.8650	.97432	1.0200	1.500	1.0090
#2	9.8383	.97548	1.0165	1.513	1.0046
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 21:10:56 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0305**	**1.0508**	**1.0052**	**1.519**
Stddev	.0020	.0040	.0068	.001
%RSD	.19267	.38299	.67491	.0844
#1	1.0319	1.0536	1.0100	1.520
#2	1.0291	1.0479	1.0005	1.518
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2660.0**	**2369.2**	**22472.**	**3308.3**
Stddev	2.9	1.1	190.	4.3
%RSD	.10945	.04671	.84636	.12883
#1	2662.0	2368.4	22338.	3311.3
#2	2657.9	2370.0	22607.	3305.2

Sample Name: CCB-7026764 Acquired: 6/15/2022 21:14:36 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**-.01430**	**.00154**	**.00408**	**.00013**
Stddev	.00113	.01105	.00000	.00012	.00002
%RSD	376.15	77.286	.00386	2.9958	18.552
#1	.00050	-.02212	.00154	.00417	.00011
#2	-.00110	-.00649	.00154	.00400	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.00874**	**.00019**	**.0149**	**.00013**
Stddev	.00005	.00306	.00011	.0067	.00034
%RSD	32.801	35.062	58.460	45.34	259.27
#1	.00019	.01091	.00011	.0196	-.00011
#2	.00012	.00657	.00027	.0101	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.00182**	**.00498**	**.06451**	**-.00070**
Stddev	.00027	.00123	.00026	.00914	.00165
%RSD	162.82	67.620	5.2698	14.167	234.55
#1	.00035	.00269	.00517	.07097	-.00187
#2	-.00002	.00095	.00479	.05805	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 21:14:36 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00264**	**-.00007**	**.00032**	**.06246**	**.00014**
Stddev	.00580	.00009	.00007	.00190	.00010
%RSD	219.94	123.22	22.298	3.0341	69.721
#1	.00674	-.00013	.00027	.06380	.00007
#2	-.00146	-.00001	.00038	.06112	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00070**	**.01393**	**.00061**	**.00025**
Stddev	.00	.00086	.00641	.00123	.00367
%RSD	.0021	123.56	46.045	204.03	1458.7
#1	25.02	-.00131	.00939	-.00027	.00285
#2	25.02	-.00009	.01846	.00148	-.00234
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00385**	**-.00012**	**.00004**	**1.007**	**.00046**
Stddev	.00191	.00033	.00002	.000	.00054
%RSD	49.657	267.37	42.294	.0288	116.99
#1	-.00250	-.00035	.00003	1.007	.00085
#2	-.00520	.00011	.00005	1.007	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 21:14:36 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00065**	**-.00017**	**-.00154**	**1.001**
Stddev	.00122	.00013	.00050	.001
%RSD	187.78	80.511	32.596	.0456
#1	.00151	-.00007	-.00119	1.001
#2	-.00021	-.00026	-.00190	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3125.0**	**2491.1**	**24374.**	**3428.8**
Stddev	16.4	12.0	1.	.8
%RSD	.52382	.48182	.00311	.02404
#1	3113.4	2482.6	24374.	3428.2
#2	3136.6	2499.6	24373.	3429.3

Sample Name: CCVL-7028546 Acquired: 6/15/2022 21:18:35 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00518**	**.19359**	**.01384**	**.02251**	**.00218**
Stddev	.00064	.00603	.00024	.00002	.00002
%RSD	12.388	3.1156	1.7287	.09645	.76009
#1	.00473	.18932	.01367	.02253	.00217
#2	.00564	.19785	.01401	.02250	.00219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.47966**	**.00197**	**.0175**	**.00385**
Stddev	.00001	.00145	.00018	.0139	.00005
%RSD	.69447	.30255	8.9068	79.09	1.3595
#1	.00204	.48069	.00185	.0273	.00382
#2	.00206	.47863	.00210	.0077	.00389
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00412**	**.01095**	**.04668**	**.51766**	**.02631**
Stddev	.00014	.00006	.00124	.02710	.00207
%RSD	3.3809	.54584	2.6652	5.2355	7.8490
#1	.00403	.01091	.04580	.49850	.02777
#2	.00422	.01100	.04756	.53683	.02485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/15/2022 21:18:35 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19900**	**.00326**	**.01056**	**.98876**	**.00942**
Stddev	.00180	.00005	.00007	.01541	.00007
%RSD	.90473	1.5283	.62160	1.5586	.74439
#1	.20027	.00322	.01061	.99965	.00937
#2	.19772	.00329	.01051	.97786	.00947
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00915**	**.19709**	**.01872**	**.02780**
Stddev	.00	.00067	.00092	.00093	.00076
%RSD	.0054	7.3248	.46586	4.9487	2.7409
#1	25.00	.00867	.19644	.01806	.02726
#2	25.00	.00962	.19774	.01937	.02834
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44506**	**.00907**	**.00508**	F **1.003**	**.00475**
Stddev	.00138	.00030	.00001	.003	.00075
%RSD	.30987	3.3406	.21598	.3085	15.748
#1	.44603	.00885	.00507	1.005	.00528
#2	.44408	.00928	.00509	1.001	.00422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/15/2022 21:18:35 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01989**	**.00505**	**.01040**	F **1.001**
Stddev	.00083	.00039	.00011	.000
%RSD	4.1831	7.7657	1.0736	.0296
#1	.02047	.00477	.01048	1.001
#2	.01930	.00532	.01032	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3148.3**	**2502.8**	**24428.**	**3506.2**
Stddev	11.6	5.0	141.	42.1
%RSD	.36851	.19883	.57655	1.2004
#1	3140.1	2499.3	24527.	3476.5
#2	3156.5	2506.3	24328.	3536.0

Sample Name: 620-4969-J-6-E MSD Acquired: 6/15/2022 21:22:29 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04910**	**9.6124**	**.20570**	**.27656**	**.24624**
Stddev	.00090	.0358	.00288	.00071	.00073
%RSD	1.8253	.37247	1.4001	.25772	.29454
#1	.04974	9.6377	.20367	.27606	.24675
#2	.04847	9.5870	.20774	.27707	.24573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20460**	**73.551**	**.19806**	**-.0138**	**.19536**
Stddev	.00042	.295	.00031	.0015	.00031
%RSD	.20443	.40166	.15601	10.83	.15671
#1	.20489	73.760	.19784	-.0148	.19514
#2	.20430	73.342	.19828	-.0127	.19558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20632**	**.20780**	**9.8158**	**17.153**	**.19311**
Stddev	.00053	.00045	.0243	.026	.00177
%RSD	.25520	.21855	.24799	.15017	.91624
#1	.20594	.20812	9.8330	17.135	.19436
#2	.20669	.20748	9.7985	17.171	.19186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4969-J-6-E MSD Acquired: 6/15/2022 21:22:29 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.673**	**.21053**	**.21230**	**22.154**	**.19146**
Stddev	.013	.00012	.00011	.094	.00036
%RSD	.06712	.05607	.05013	.42295	.18928
#1	19.682	.21045	.21237	22.220	.19120
#2	19.664	.21062	.21222	22.088	.19172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.75**	**.19381**	**14.835**	**.20935**	**.20383**
Stddev	.00	.00187	.016	.00143	.00370
%RSD	.0088	.96539	.10476	.68168	1.8146
#1	24.75	.19514	14.824	.20834	.20644
#2	24.75	.19249	14.846	.21036	.20121
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.201**	**.23060**	**.49509**	**.9978**	**.20209**
Stddev	.025	.00031	.00201	.0032	.00053
%RSD	.17366	.13634	.40579	.3248	.26337
#1	14.183	.23038	.49651	.9955	.20247
#2	14.218	.23082	.49367	1.000	.20171
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4969-J-6-E MSD Acquired: 6/15/2022 21:22:29 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20099**	**.20594**	**.19195**	**1.002**
Stddev	.00057	.00031	.00107	.001
%RSD	.28300	.14989	.55725	.0549
#1	.20139	.20572	.19119	1.002
#2	.20059	.20616	.19271	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2843.6**	**2433.1**	**23478.**	**3538.5**
Stddev	1.8	.9	98.	11.0
%RSD	.06185	.03634	.41925	.31130
#1	2844.9	2433.7	23548.	3530.7
#2	2842.4	2432.5	23409.	3546.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.785%	94.775%	93.287%	98.746%
Range				

Sample Name: 620-4969-T-7-C Acquired: 6/15/2022 21:26:13 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.19738**	**.00249**	**.05024**	**.05610**
Stddev	.00038	.01700	.00082	.00114	.00017
%RSD	510.78	8.6135	33.023	2.2767	.30763
#1	.00019	.20941	.00308	.05105	.05622
#2	-.00034	.18536	.00191	.04943	.05598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**48.011**	**.00019**	**.0220**	**.00029**
Stddev	.00000	.220	.00011	.0457	.00006
%RSD	1.7455	.45774	56.234	207.7	21.378
#1	.00005	47.855	.00012	.0543	.00025
#2	.00005	48.166	.00027	-.0103	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**.00562**	**.31024**	**3.7103**	**-.00104**
Stddev	.00014	.00026	.00697	.0017	.00213
%RSD	20.076	4.6711	2.2470	.04594	205.98
#1	.00082	.00580	.30531	3.7091	-.00254
#2	.00062	.00543	.31517	3.7115	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4969-T-7-C Acquired: 6/15/2022 21:26:13 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.8331**	**.14635**	**.00067**	**30.357**	**.00018**
Stddev	.0163	.00016	.00032	.138	.00005
%RSD	.18447	.11092	48.506	.45422	27.005
#1	8.8446	.14646	.00090	30.260	.00014
#2	8.8216	.14623	.00044	30.455	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00120**	**14.336**	**.00173**	**.00095**
Stddev	.00	.00038	.037	.00005	.00244
%RSD	.0051	31.361	.26015	2.6925	256.27
#1	25.03	.00093	14.363	.00170	-.00077
#2	25.03	.00146	14.310	.00176	.00268
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.2881**	**.00022**	**.26114**	**.9971**	**.01778**
Stddev	.0135	.00046	.00037	.0043	.00036
%RSD	.21441	210.98	.14073	.4361	2.0466
#1	6.2786	.00055	.26088	1.000	.01804
#2	6.2977	-.00011	.26140	.9940	.01752
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4969-T-7-C Acquired: 6/15/2022 21:26:13 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.00052**	**.00320**	**1.001**
Stddev	.00175	.00060	.00018	.000
%RSD	388.12	114.46	5.7157	.0133
#1	-.00169	.00010	.00307	1.001
#2	.00079	.00095	.00332	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2923.3**	**2436.6**	**23662.**	**3533.5**
Stddev	2.8	4.3	58.	19.3
%RSD	.09737	.17821	.24467	.54585
#1	2921.3	2433.5	23621.	3547.1
#2	2925.3	2439.6	23703.	3519.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.272%	94.910%	94.016%	98.606%
Range				

Sample Name: 620-4969-J-8-C Acquired: 6/15/2022 21:30:05 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.01851**	**.00113**	**.07000**	**.02921**
Stddev	.00030	.00042	.00018	.00006	.00001
%RSD	256.71	2.2705	15.939	.09211	.01742
#1	-.00033	-.01881	.00100	.06996	.02921
#2	.00010	-.01822	.00126	.07005	.02921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**16.252**	**.00001**	**.0038**	**.00011**
Stddev	.00003	.046	.00014	.0180	.00005
%RSD	23.469	.28045	1055.9	478.5	42.471
#1	.00014	16.220	-.00009	.0165	.00014
#2	.00010	16.285	.00012	-.0090	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00217**	**.27530**	**2.2151**	**-.00187**
Stddev	.00001	.00075	.00111	.0325	.00012
%RSD	13.441	34.661	.40447	1.4670	6.3689
#1	.00006	.00164	.27609	2.2381	-.00196
#2	.00007	.00270	.27452	2.1921	-.00179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4969-J-8-C Acquired: 6/15/2022 21:30:05 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.7739**	**.11895**	**-.00002**	**4.9600**	**.00004**
Stddev	.0115	.00014	.00003	.0038	.00011
%RSD	.24011	.11593	212.97	.07681	245.65
#1	4.7820	.11905	.00001	4.9573	-.00003
#2	4.7658	.11885	-.00004	4.9627	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00013**	**9.3170**	**.00081**	**-.00029**
Stddev	.00	.00070	.0154	.00144	.00421
%RSD	.0017	540.18	.16535	176.33	1472.5
#1	25.02	.00063	9.3279	.00183	.00269
#2	25.02	-.00037	9.3061	-.00020	-.00327
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.2205**	**.00003**	**.06788**	**.9958**	**.00004**
Stddev	.0007	.00005	.00020	.0029	.00034
%RSD	.02225	174.28	.29815	.2902	840.80
#1	3.2200	-.00001	.06773	.9938	.00028
#2	3.2210	.00007	.06802	.9979	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-4969-J-8-C Acquired: 6/15/2022 21:30:05 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00027**	**-.00030**	**.00060**	**1.001**
Stddev	.00026	.00054	.00092	.001
%RSD	99.848	180.49	155.01	.0623
#1	.00045	-.00068	.00125	1.001
#2	.00008	.00008	-.00006	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3062.4**	**2481.9**	**24352.**	**3536.0**
Stddev	2.3	2.6	72.	12.6
%RSD	.07575	.10319	.29519	.35569
#1	3060.7	2480.1	24301.	3544.9
#2	3064.0	2483.7	24403.	3527.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.614%	96.677%	96.758%	98.675%
Range				

Sample Name: 620-5017-J-1-C Acquired: 6/15/2022 21:33:57 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**.19386**	**-.00004**	**.02475**	**.06324**
Stddev	.00050	.05218	.00006	.00041	.00002
%RSD	73.305	26.916	166.76	1.6632	.03011
#1	-.00103	.23076	-.00008	.02446	.06322
#2	-.00033	.15697	.00001	.02504	.06325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**14.308**	**-.00007**	**.0318**	**.00037**
Stddev	.00001	.107	.00013	.0069	.00005
%RSD	11.308	.74812	185.81	21.86	12.937
#1	.00007	14.384	-.00016	.0269	.00041
#2	.00006	14.232	.00002	.0367	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.00596**	**4.5978**	**2.2438**	**-.00241**
Stddev	.00037	.00042	.0307	.0272	.00058
%RSD	68.461	7.1027	.66726	1.2124	24.025
#1	.00028	.00566	4.6195	2.2245	-.00282
#2	.00080	.00626	4.5761	2.2630	-.00200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-5017-J-1-C Acquired: 6/15/2022 21:33:57 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.7190**	**.06204**	**.00010**	**13.363**	**.00204**
Stddev	.0049	.00013	.00002	.104	.00022
%RSD	.18114	.20901	24.705	.77722	10.778
#1	2.7224	.06195	.00011	13.437	.00189
#2	2.7155	.06213	.00008	13.290	.00220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00015**	**11.069**	**.00021**	**-.00037**
Stddev	.00	.00032	.015	.00089	.00079
%RSD	.0004	212.07	.13434	421.47	211.32
#1	25.02	-.00008	11.058	.00084	-.00093
#2	25.02	.00038	11.079	-.00042	.00018
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.7971**	**.00020**	**.12430**	**1.005**	**.01630**
Stddev	.0170	.00010	.00108	.006	.00039
%RSD	.21864	48.273	.86930	.6270	2.4053
#1	7.8092	.00027	.12507	1.000	.01602
#2	7.7851	.00013	.12354	1.009	.01657
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-5017-J-1-C Acquired: 6/15/2022 21:33:57 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00037**	**.00062**	**.01281**	**1.001**
Stddev	.00053	.00013	.00023	.000
%RSD	142.68	20.685	1.7799	.0434
#1	.00074	.00072	.01297	1.001
#2	-.00000	.00053	.01265	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3030.3**	**2471.0**	**24299.**	**3539.0**
Stddev	1.8	1.6	9.	6.7
%RSD	.05983	.06440	.03656	.18852
#1	3031.6	2472.1	24293.	3534.3
#2	3029.0	2469.9	24305.	3543.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.612%	96.252%	96.547%	98.759%
Range				

Sample Name: 620-5017-J-2-C Acquired: 6/15/2022 21:37:48 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**-.01396**	**-.00041**	**.04977**	**.03586**
Stddev	.00037	.01289	.00268	.00023	.00011
%RSD	220.49	92.373	660.13	.47165	.30126
#1	.00043	-.02307	-.00230	.04994	.03578
#2	-.00009	-.00484	.00149	.04960	.03593
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**40.049**	**.00012**	**.0174**	**.00020**
Stddev	.00005	.135	.00007	.0203	.00004
%RSD	35.177	.33786	58.537	117.1	21.294
#1	.00017	40.145	.00007	.0317	.00023
#2	.00010	39.954	.00017	.0030	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00517**	**.01028**	**3.0603**	**-.00227**
Stddev	.00001	.00072	.00001	.0239	.00131
%RSD	27.477	13.980	.07148	.78071	57.962
#1	.00006	.00465	.01027	3.0772	-.00320
#2	.00004	.00568	.01028	3.0434	-.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-5017-J-2-C Acquired: 6/15/2022 21:37:48 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.061**	**.05084**	**-.00016**	**10.933**	**.00022**
Stddev	.020	.00012	.00024	.071	.00032
%RSD	.13542	.24155	145.99	.65000	144.56
#1	15.046	.05093	-.00033	10.983	.00045
#2	15.075	.05076	.00001	10.883	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00036**	**28.019**	**.00169**	**.00048**
Stddev	.00	.00070	.008	.00020	.00138
%RSD	.0009	195.64	.02831	11.953	288.40
#1	25.02	-.00014	28.025	.00183	-.00050
#2	25.02	.00085	28.013	.00155	.00145
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.4051**	**.00012**	**.16381**	**1.003**	**.00081**
Stddev	.0066	.00075	.00024	.003	.00003
%RSD	.15017	606.35	.14881	.3286	3.8904
#1	4.4098	-.00041	.16399	1.005	.00083
#2	4.4004	.00065	.16364	1.000	.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-5017-J-2-C Acquired: 6/15/2022 21:37:48 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00118**	**-.00014**	**.00163**	**.9989**
Stddev	.00083	.00016	.00032	.0006
%RSD	70.878	110.04	19.834	.0561
#1	-.00059	-.00003	.00186	.9993
#2	-.00177	-.00025	.00140	.9985
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2957.7**	**2446.1**	**23958.**	**3516.9**
Stddev	2.7	2.7	59.	9.6
%RSD	.09188	.10873	.24777	.27246
#1	2955.8	2444.2	23916.	3510.1
#2	2959.6	2448.0	24000.	3523.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.346%	95.282%	95.192%	98.143%
Range				

Sample Name: 620-5017-J-3-C Acquired: 6/15/2022 21:41:40 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.01215**	**.00187**	**.06744**	**.04678**
Stddev	.00017	.00392	.00107	.00033	.00020
%RSD	139.02	32.269	57.274	.49447	.43203
#1	-.00000	-.00937	.00263	.06768	.04692
#2	-.00024	-.01492	.00112	.06721	.04663
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**35.472**	**.00011**	**.0193**	**-.00011**
Stddev	.00003	.008	.00009	.0171	.00017
%RSD	95.397	.02385	82.078	88.82	155.83
#1	.00001	35.478	.00005	.0314	-.00023
#2	.00006	35.466	.00017	.0072	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**.00372**	**.00168**	**2.0587**	**-.00117**
Stddev	.00042	.00040	.00081	.0034	.00068
%RSD	89.046	10.852	48.364	.16518	58.166
#1	.00017	.00400	.00111	2.0611	-.00166
#2	.00076	.00343	.00226	2.0563	-.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-5017-J-3-C Acquired: 6/15/2022 21:41:40 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.1217**	**.57653**	**-.00000**	**9.8798**	**-.00018**
Stddev	.0620	.00428	.00007	.0231	.00006
%RSD	.67977	.74258	5569.9	.23387	32.931
#1	9.1656	.57955	.00005	9.8961	-.00022
#2	9.0779	.57350	-.00005	9.8634	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00036**	**13.074**	**.00130**	**.00013**
Stddev	.00	.00148	.039	.00075	.00039
%RSD	.0098	412.53	.29739	57.712	301.16
#1	25.02	-.00140	13.102	.00077	.00040
#2	25.02	.00069	13.047	.00183	-.00014
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.8958**	**-.00021**	**.20165**	**1.001**	**.00008**
Stddev	.0300	.00012	.00035	.007	.00004
%RSD	.77005	55.303	.17167	.6547	45.665
#1	3.8746	-.00029	.20190	1.006	.00006
#2	3.9170	-.00013	.20141	.9964	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-5017-J-3-C Acquired: 6/15/2022 21:41:40 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00166**	**.00009**	**.00362**	**1.001**
Stddev	.00012	.00026	.00004	.001
%RSD	7.2317	292.18	1.0793	.0726
#1	-.00158	-.00010	.00364	1.001
#2	-.00175	.00027	.00359	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2987.8**	**2454.5**	**23829.**	**3515.2**
Stddev	6.5	6.6	143.	3.0
%RSD	.21849	.26696	.59928	.08438
#1	2983.2	2449.9	23728.	3517.3
#2	2992.4	2459.2	23930.	3513.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.286%	95.609%	94.679%	98.096%
Range				

Sample Name: 620-5017-J-4-C Acquired: 6/15/2022 21:45:32 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**-.00701**	**.00161**	**.01604**	**.01773**
Stddev	.00030	.00812	.00073	.00051	.00009
%RSD	118.11	115.84	45.202	3.1758	.51971
#1	.00004	-.00127	.00212	.01640	.01779
#2	.00047	-.01275	.00110	.01568	.01766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**53.440**	**.00011**	**.0187**	**.00031**
Stddev	.00000	.260	.00003	.0022	.00007
%RSD	1.1600	.48673	26.364	11.69	23.385
#1	.00007	53.624	.00013	.0172	.00037
#2	.00007	53.256	.00009	.0203	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00387**	**-.00007**	**2.8961**	**-.00151**
Stddev	.00028	.00042	.00113	.0200	.00010
%RSD	489.39	10.730	1538.6	.69143	6.8598
#1	-.00014	.00417	-.00087	2.9102	-.00158
#2	.00025	.00358	.00073	2.8819	-.00144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-5017-J-4-C Acquired: 6/15/2022 21:45:32 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.835**	**.04021**	**.00084**	**2.2919**	**.00031**
Stddev	.031	.00006	.00004	.0069	.00023
%RSD	.20634	.13769	4.6793	.30027	74.563
#1	14.857	.04017	.00087	2.2968	.00048
#2	14.814	.04025	.00081	2.2870	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**-.00036**	**1.8749**	**-.00059**	**-.00263**
Stddev	.00	.00018	.0025	.00024	.00241
%RSD	.0056	51.285	.13479	40.093	91.541
#1	25.03	-.00023	1.8731	-.00076	-.00093
#2	25.03	-.00049	1.8767	-.00042	-.00433
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.8180**	**-.00032**	**.29982**	**1.001**	**.00013**
Stddev	.0359	.00052	.00127	.009	.00007
%RSD	1.2728	161.02	.42467	.9105	52.568
#1	2.8434	.00004	.30072	1.007	.00018
#2	2.7926	-.00069	.29892	.9942	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-5017-J-4-C Acquired: 6/15/2022 21:45:32 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00070**	**-.00018**	**.00260**	**.9998**
Stddev	.00054	.00026	.00062	.0013
%RSD	77.433	150.91	23.663	.1346
#1	-.00032	-.00036	.00304	.9989
#2	-.00108	.00001	.00217	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2963.3**	**2454.4**	**24062.**	**3606.5**
Stddev	2.0	2.1	96.	17.7
%RSD	.06631	.08634	.40018	.49177
#1	2964.7	2452.9	23994.	3594.0
#2	2961.9	2455.9	24130.	3619.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.521%	95.603%	95.607%	100.64%
Range				

Sample Name: 620-5017-J-5-C Acquired: 6/15/2022 21:49:25 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**-.00548**	**.00141**	**.05841**	**.02201**
Stddev	.00059	.00312	.00171	.00027	.00010
%RSD	354.93	56.956	121.58	.46836	.47519
#1	-.00025	-.00328	.00020	.05860	.02208
#2	.00059	-.00769	.00262	.05821	.02193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**28.390**	**-.00004**	**.0252**	**-.00012**
Stddev	.00003	.069	.00004	.0054	.00001
%RSD	89.653	.24141	91.562	21.56	5.7244
#1	.00005	28.439	-.00007	.0290	-.00011
#2	.00001	28.342	-.00001	.0213	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00373**	**.00388**	**2.1630**	**-.00223**
Stddev	.00006	.00031	.00057	.0066	.00160
%RSD	29.962	8.4387	14.790	.30631	71.658
#1	.00015	.00395	.00347	2.1584	-.00110
#2	.00023	.00350	.00429	2.1677	-.00337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-5017-J-5-C Acquired: 6/15/2022 21:49:25 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.7000**	**.00287**	**.00012**	**12.419**	**-.00008**
Stddev	.0275	.00009	.00032	.016	.00018
%RSD	.48296	2.9684	262.17	.13101	217.19
#1	5.7195	.00293	.00034	12.430	-.00021
#2	5.6805	.00281	-.00010	12.407	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00015**	**4.6239**	**-.00174**	**.00024**
Stddev	.00	.00030	.0041	.00132	.00005
%RSD	.0025	192.88	.08791	76.149	20.166
#1	25.02	-.00006	4.6210	-.00267	.00020
#2	25.02	.00037	4.6268	-.00080	.00027
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5535**	**-.00016**	**.25896**	**.9985**	**.00052**
Stddev	.0214	.00004	.00005	.0023	.00008
%RSD	.46884	24.052	.01981	.2289	15.694
#1	4.5686	-.00013	.25900	.9969	.00058
#2	4.5384	-.00018	.25892	1.000	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 620-5017-J-5-C Acquired: 6/15/2022 21:49:25 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00059**	**.00030**	**.00467**	**1.000**
Stddev	.00035	.00002	.00065	.000
%RSD	59.468	7.2152	13.948	.0186
#1	.00034	.00029	.00513	1.000
#2	.00083	.00032	.00421	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3010.5**	**2470.4**	**24038.**	**3544.3**
Stddev	2.4	5.2	127.	.8
%RSD	.07864	.21115	.52947	.02255
#1	3008.9	2466.7	23948.	3543.8
#2	3012.2	2474.1	24128.	3544.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.996%	96.228%	95.512%	98.909%
Range				

Sample Name: MB 480-629872/1-A Acquired: 6/15/2022 21:53:18 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**-.00371**	**-.00008**	**.00308**	**.00001**
Stddev	.00006	.00732	.00095	.00034	.00000
%RSD	18.972	197.03	1188.1	11.119	50.150
#1	-.00036	.00146	.00059	.00284	.00001
#2	-.00027	-.00889	-.00075	.00333	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.01960**	**-.00020**	**.0056**	**-.00010**
Stddev	.00008	.00018	.00021	.0196	.00008
%RSD	3029.0	.90096	104.56	352.7	77.840
#1	.00005	.01948	-.00005	-.0083	-.00005
#2	-.00006	.01973	-.00035	.0194	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00116**	**-.00043**	**.08101**	**-.00236**
Stddev	.00008	.00010	.00218	.00139	.00110
%RSD	25.811	8.6580	507.20	1.7120	46.625
#1	.00026	.00123	.00111	.08003	-.00314
#2	.00038	.00109	-.00197	.08199	-.00158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629872/1-A Acquired: 6/15/2022 21:53:18 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.00235**	**-.00014**	**.07834**	**-.00014**
Stddev	.00211	.00004	.00012	.01298	.00009
%RSD	523.47	1.4973	81.146	16.575	67.551
#1	-.00190	.00232	-.00006	.06916	-.00020
#2	.00109	.00237	-.00023	.08752	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00115**	**.01883**	**-.00083**	**.00041**
Stddev	.00	.00006	.00111	.00086	.00375
%RSD	.0039	4.9043	5.8902	103.32	923.30
#1	25.02	-.00119	.01961	-.00144	-.00225
#2	25.02	-.00111	.01804	-.00022	.00306
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**.00006**	**-.00009**	**.9979**	**-.00018**
Stddev	.00265	.00010	.00005	.0019	.00002
%RSD	125.82	160.13	51.692	.1952	8.8629
#1	.00397	-.00001	-.00012	.9993	-.00017
#2	.00023	.00013	-.00006	.9965	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-629872/1-A Acquired: 6/15/2022 21:53:18 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00052**	**-.00050**	**.00130**	**1.001**
Stddev	.00014	.00006	.00010	.000
%RSD	25.901	12.841	7.6704	.0048
#1	-.00062	-.00055	.00123	1.001
#2	-.00043	-.00046	.00137	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3146.7**	**2501.0**	**24809.**	**3542.7**
Stddev	1.9	3.2	77.	32.1
%RSD	.05990	.12633	.31229	.90739
#1	3148.0	2503.3	24754.	3520.0
#2	3145.3	2498.8	24864.	3565.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.247%	97.421%	98.574%	98.863%
Range				

Sample Name: CCV-7032336 Acquired: 6/15/2022 21:57:15 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0007**	**49.530**	**1.0189**	**1.0669**	**1.0337**
Stddev	.0062	.076	.0011	.0001	.0035
%RSD	.61442	.15423	.10995	.00760	.33840
#1	1.0051	49.476	1.0181	1.0669	1.0312
#2	.99640	49.584	1.0197	1.0668	1.0362
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0031**	**49.147**	**1.0200**	**1.023**	**.98974**
Stddev	.0017	.002	.0001	.012	.00011
%RSD	.16798	.00400	.01446	1.149	.01114
#1	1.0019	49.149	1.0201	1.014	.98982
#2	1.0043	49.146	1.0199	1.031	.98966
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0405**	**1.0129**	**49.478**	**50.952**	**1.0211**
Stddev	.0034	.0029	.152	.014	.0011
%RSD	.33123	.28683	.30811	.02700	.10432
#1	1.0430	1.0150	49.586	50.962	1.0204
#2	1.0381	1.0109	49.370	50.942	1.0219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 21:57:15 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.370**	**1.0307**	**1.0490**	**51.234**	**.99967**
Stddev	.226	.0048	.0000	.070	.00210
%RSD	.44897	.46715	.00335	.13742	.21006
#1	50.530	1.0341	1.0490	51.184	1.0012
#2	50.210	1.0273	1.0490	51.284	.99819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.66**	**.98371**	**25.014**	**1.0209**	**1.0485**
Stddev	.02	.00058	.021	.0026	.0003
%RSD	.0620	.05913	.08220	.25869	.03001
#1	37.68	.98412	25.029	1.0190	1.0488
#2	37.65	.98330	24.999	1.0227	1.0483
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7947**	**.97342**	**1.0154**	**1.499**	**1.0047**
Stddev	.0459	.00068	.0008	.000	.0043
%RSD	.46860	.07030	.08135	.0196	.42290
#1	9.7623	.97390	1.0148	1.498	1.0077
#2	9.8272	.97294	1.0160	1.499	1.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 21:57:15 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0257**	**1.0432**	**.98852**	**1.516**
Stddev	.0028	.0041	.00637	.001
%RSD	.27413	.39558	.64411	.0532
#1	1.0277	1.0461	.99302	1.517
#2	1.0237	1.0403	.98402	1.516
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2697.7**	**2397.2**	**23013.**	**3387.0**
Stddev	6.9	6.8	141.	34.4
%RSD	.25427	.28500	.61284	1.0158
#1	2702.6	2402.0	22913.	3362.7
#2	2692.9	2392.3	23113.	3411.4

Sample Name: CCB-7026764 Acquired: 6/15/2022 22:00:56 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**.04721**	**.00057**	**.00225**	**.00068**
Stddev	.00100	.00309	.00072	.00058	.00034
%RSD	210.99	6.5494	125.50	25.801	49.208
#1	.00118	.04940	.00006	.00266	.00092
#2	-.00023	.04503	.00108	.00184	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00141**	**.10137**	**-.00007**	**.0241**	**.00009**
Stddev	.00003	.00374	.00013	.0421	.00012
%RSD	2.1326	3.6887	191.72	174.9	146.52
#1	.00143	.10401	.00003	.0538	.00017
#2	.00139	.09872	-.00017	-.0057	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	**.00262**	F **.06146**	**.11412**	**.00058**
Stddev	.00041	.00037	.00452	.05458	.00135
%RSD	58.593	14.082	7.3605	47.824	233.08
#1	.00098	.00289	.06466	.07553	-.00038
#2	.00041	.00236	.05826	.15271	.00153
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			.05000		
Low Limit			-.05000		

Sample Name: CCB-7026764 Acquired: 6/15/2022 22:00:56 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03381**	**.00046**	**.00040**	**.10662**	**-.00003**
Stddev	.01394	.00034	.00002	.00334	.00005
%RSD	41.236	75.325	6.1064	3.1362	170.51
#1	.04367	.00070	.00038	.10426	.00001
#2	.02395	.00021	.00042	.10899	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00041**	**.00860**	**.00188**	**-.00085**
Stddev	.00	.00042	.00038	.00241	.00192
%RSD	.0020	103.99	4.4258	128.31	227.09
#1	25.02	.00011	.00887	.00359	.00051
#2	25.02	.00070	.00834	.00017	-.00221
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01270**	**.00019**	**.00157**	**.9999**	**.00078**
Stddev	.00194	.00024	.00004	.0011	.00025
%RSD	15.278	125.19	2.3447	.1111	31.663
#1	.01133	.00002	.00155	.9991	.00095
#2	.01407	.00036	.00160	1.001	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 22:00:56 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00061**	**.00047**	**-.00094**	**1.002**
Stddev	.00060	.00008	.00057	.000
%RSD	98.128	16.258	61.001	.0309
#1	.00019	.00042	-.00053	1.002
#2	.00104	.00053	-.00134	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3139.0**	**2498.7**	**24652.**	**3473.1**
Stddev	6.7	3.8	74.	5.5
%RSD	.21233	.15184	.29879	.15765
#1	3134.3	2496.0	24599.	3476.9
#2	3143.7	2501.4	24704.	3469.2

Sample Name: CCVL-7028546 Acquired: 6/15/2022 22:04:54 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00544**	**.18643**	**.01457**	**.02071**	**.00212**
Stddev	.00083	.00897	.00009	.00042	.00001
%RSD	15.208	4.8134	.62713	2.0213	.27695
#1	.00485	.19278	.01463	.02041	.00212
#2	.00602	.18009	.01450	.02100	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**.47619**	**.00182**	**-.0024**	**.00371**
Stddev	.00002	.00303	.00007	.0411	.00007
%RSD	.83797	.63682	3.6778	1690.	2.0156
#1	.00208	.47834	.00177	.0266	.00366
#2	.00210	.47405	.00186	-.0315	.00376
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00407**	**.01190**	**.04702**	**.50798**	**.02592**
Stddev	.00041	.00010	.00027	.01984	.00129
%RSD	10.050	.80782	.56562	3.9063	4.9801
#1	.00436	.01184	.04684	.52201	.02683
#2	.00378	.01197	.04721	.49395	.02501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/15/2022 22:04:54 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19510**	**.00321**	**.01044**	**.97642**	**.00957**
Stddev	.00327	.00002	.00010	.01070	.00019
%RSD	1.6750	.66135	.97492	1.0953	1.9952
#1	.19279	.00319	.01052	.96886	.00970
#2	.19741	.00322	.01037	.98399	.00943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00941**	**.19140**	**.02060**	**.02236**
Stddev	.00	.00036	.00189	.00136	.00103
%RSD	.0014	3.8549	.98728	6.6260	4.5870
#1	25.00	.00915	.19273	.01963	.02163
#2	25.00	.00966	.19006	.02156	.02308
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45039**	**.00894**	**.00496**	F **.9933**	**.00416**
Stddev	.01391	.00039	.00012	.0071	.00034
%RSD	3.0888	4.3378	2.3724	.7110	8.2786
#1	.46023	.00866	.00488	.9983	.00392
#2	.44055	.00921	.00505	.9883	.00440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/15/2022 22:04:54 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01863**	**.00472**	**.01022**	F **1.0000**
Stddev	.00041	.00033	.00048	.0006
%RSD	2.1754	6.8929	4.7285	.0576
#1	.01892	.00449	.01057	.9996
#2	.01835	.00495	.00988	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3160.6**	**2517.0**	**24638.**	**3504.5**
Stddev	5.0	4.5	98.	10.5
%RSD	.15954	.17875	.39855	.29885
#1	3157.0	2513.8	24568.	3497.0
#2	3164.2	2520.2	24707.	3511.9

Sample Name: LCS 480-629872/2-A Acquired: 6/15/2022 22:08:49 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04974**	**9.9933**	**.20718**	**.21085**	**.21743**
Stddev	.00009	.0567	.00133	.00025	.00011
%RSD	.18133	.56761	.64399	.11789	.05162
#1	.04967	10.033	.20623	.21103	.21735
#2	.04980	9.9532	.20812	.21068	.21751
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21022**	**9.8813**	**.20400**	**.0081**	**.19986**
Stddev	.00083	.0726	.00006	.0426	.00018
%RSD	.39675	.73491	.02722	522.5	.08797
#1	.21081	9.9327	.20403	.0382	.19973
#2	.20963	9.8300	.20396	-.0219	.19998
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21499**	**.20842**	**10.216**	**9.7097**	**.19786**
Stddev	.00041	.00131	.025	.1087	.00162
%RSD	.18981	.62817	.24803	1.1199	.81942
#1	.21470	.20935	10.234	9.7866	.19901
#2	.21527	.20749	10.198	9.6328	.19672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-629872/2-A Acquired: 6/15/2022 22:08:49 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.588**	**.21276**	**.21837**	**9.9043**	**.19613**
Stddev	.041	.00014	.00023	.0354	.00021
%RSD	.38323	.06534	.10631	.35735	.10652
#1	10.559	.21285	.21853	9.9293	.19599
#2	10.617	.21266	.21820	9.8792	.19628
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.73**	**.19773**	**10.351**	**.21524**	**.20743**
Stddev	.00	.00010	.014	.00240	.00450
%RSD	.0054	.05130	.13721	1.1154	2.1684
#1	24.73	.19780	10.361	.21354	.20425
#2	24.73	.19766	10.341	.21694	.21061
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4247**	F **.23045**	**.20913**	**1.003**	**.20856**
Stddev	.0255	.00137	.00088	.001	.00016
%RSD	.27007	.59467	.42071	.1004	.07591
#1	9.4427	.22948	.20975	1.002	.20844
#2	9.4067	.23142	.20851	1.003	.20867
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: LCS 480-629872/2-A Acquired: 6/15/2022 22:08:49 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20561**	**.21067**	**.19925**	**1.003**
Stddev	.00003	.00067	.00101	.001
%RSD	.01668	.31603	.50927	.0779
#1	.20558	.21020	.19853	1.002
#2	.20563	.21114	.19997	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2980.4**	**2475.5**	**24122.**	**3572.7**
Stddev	.7	.5	55.	22.0
%RSD	.02214	.01931	.22938	.61483
#1	2980.9	2475.9	24161.	3557.2
#2	2980.0	2475.2	24083.	3588.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.056%	96.428%	95.843%	99.700%
Range				

Sample Name: 480-198886-D-1-A Acquired: 6/15/2022 22:12:32 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00184**	**.03502**	F **7.0846**	**5.6061**	**.14182**
Stddev	.00004	.01515	.0030	.0117	.00065
%RSD	2.1417	43.260	.04181	.20836	.45644
#1	-.00181	.04574	7.0825	5.5978	.14137
#2	-.00187	.02431	7.0867	5.6144	.14228
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			4.5000		
Low Limit			-.01500		

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**61.562**	**.00024**	**-.1461**	**.03390**
Stddev	.00007	.323	.00019	.0207	.00012
%RSD	59.964	.52447	79.807	14.20	.34311
#1	-.00017	61.790	.00011	-.1607	.03382
#2	-.00007	61.334	.00038	-.1314	.03398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **37.720**	**.01201**	**66.484**	**161.53**	**.25513**
Stddev	.089	.00048	.420	.73	.00112
%RSD	.23528	3.9729	.63210	.45353	.43880
#1	37.783	.01234	66.781	162.04	.25434
#2	37.658	.01167	66.186	161.01	.25592
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000				
Low Limit	-.00400				

Sample Name: 480-198886-D-1-A Acquired: 6/15/2022 22:12:32 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**160.23**	F **47.367**	**.08704**	F **2284.5**	**3.2649**
Stddev	1.77	.274	.00045	10.1	.0096
%RSD	1.1054	.57835	.51233	.44340	.29430
#1	158.98	47.174	.08736	2291.7	3.2581
#2	161.48	47.561	.08673	2277.3	3.2717
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
High Limit		45.000		900.00	
Low Limit		-.00300		-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.72**	**.01778**	F **3839.6**	**6.6887**	**.00447**
Stddev	.00	.00094	3.7	.0253	.00023
%RSD	.0009	5.2964	.09654	.37855	5.0945
#1	25.72	.01844	3842.3	6.6708	.00464
#2	25.72	.01711	3837.0	6.7066	.00431
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.389**	**.01027**	**.59293**	**1.019**	**.01004**
Stddev	.282	.00071	.00404	.005	.00077
%RSD	.62034	6.9229	.68180	.5359	7.6614
#1	45.588	.00977	.59578	1.015	.01058
#2	45.190	.01077	.59007	1.023	.00949
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198886-D-1-A Acquired: 6/15/2022 22:12:32 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.12304**	**.06595**	**1.004**
Stddev	.00085	.00049	.00083	.001
%RSD	224.50	.40143	1.2579	.0455
#1	.00022	.12269	.06653	1.004
#2	-.00098	.12339	.06536	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2160.2**	**2042.6**	**19474.**	**3367.0**
Stddev	1.6	.8	68.	22.4
%RSD	.07440	.03938	.35067	.66512
#1	2161.3	2042.1	19523.	3351.2
#2	2159.0	2043.2	19426.	3382.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	67.446%	79.565%	77.377%	93.961%
Range				

Sample Name: 480-198888-D-1-A Acquired: 6/15/2022 22:16:37 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**.02025**	**.00329**	F **20.451**	**.63791**
Stddev	.00070	.02431	.00081	.036	.00355
%RSD	108.63	120.04	24.758	.17589	.55703
#1	-.00015	.03744	.00271	20.425	.64042
#2	-.00115	.00306	.00386	20.476	.63540
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				18.000	
Low Limit				-.02000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**143.81**	**.00046**	**.0169**	**.00484**
Stddev	.00008	.28	.00005	.0225	.00040
%RSD	568.21	.19389	11.265	133.2	8.2141
#1	-.00005	143.61	.00043	.0010	.00456
#2	.00008	144.00	.00050	.0327	.00512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01264**	**.00144**	**15.974**	**294.33**	**1.1552**
Stddev	.00022	.00016	.049	1.10	.0037
%RSD	1.7359	11.183	.30963	.37331	.31853
#1	.01280	.00133	15.939	293.55	1.1526
#2	.01249	.00156	16.009	295.10	1.1578
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198888-D-1-A Acquired: 6/15/2022 22:16:37 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**171.85**	**.39849**	**.00286**	**827.28**	**.03220**
Stddev	.03	.00067	.00012	1.53	.00057
%RSD	.01977	.16694	4.3556	.18441	1.7749
#1	171.88	.39802	.00277	826.20	.03180
#2	171.83	.39896	.00295	828.36	.03260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.45**	**.00165**	**13.859**	**.04369**	**-.00048**
Stddev	.00	.00049	.222	.00261	.00037
%RSD	.0048	29.533	1.6044	5.9818	78.192
#1	25.45	.00199	13.702	.04554	-.00021
#2	25.45	.00130	14.016	.04184	-.00074
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.548**	**.00032**	**1.8638**	**1.006**	**.00707**
Stddev	.058	.00015	.0023	.003	.00002
%RSD	.42765	45.845	.12296	.3115	.25860
#1	13.507	.00022	1.8621	1.008	.00708
#2	13.589	.00042	1.8654	1.004	.00705
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198888-D-1-A Acquired: 6/15/2022 22:16:37 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.00308**	**.00078**	**1.018**
Stddev	.00109	.00021	.00003	.000
%RSD	324.57	6.9200	4.4162	.0406
#1	-.00111	.00293	.00076	1.018
#2	.00043	.00324	.00081	1.018
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2351.2**	**2184.8**	**20774.**	**3366.7**
Stddev	4.5	1.2	26.	13.4
%RSD	.19134	.05507	.12458	.39792
#1	2354.4	2185.7	20792.	3357.3
#2	2348.1	2184.0	20756.	3376.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.411%	85.104%	82.541%	93.952%
Range				

Sample Name: 480-198890-C-1-B Acquired: 6/15/2022 22:20:39 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00084**	**.03690**	**.00126**	**.04845**	**.01706**
Stddev	.00024	.01128	.00007	.00219	.00002
%RSD	28.591	30.560	5.5347	4.5211	.12471
#1	-.00067	.04488	.00121	.05000	.01708
#2	-.00101	.02893	.00131	.04690	.01705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**2.4744**	**-.00003**	**.0098**	**-.00001**
Stddev	.00001	.0001	.00008	.0273	.00007
%RSD	7.6517	.00607	241.51	278.9	654.93
#1	.00009	2.4743	-.00009	.0291	-.00006
#2	.00011	2.4745	.00002	-.0095	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**.00187**	**.02656**	**1.7532**	**.00247**
Stddev	.00005	.00061	.00082	.0295	.00026
%RSD	7.3064	32.882	3.0752	1.6843	10.580
#1	.00063	.00143	.02598	1.7741	.00228
#2	.00070	.00230	.02714	1.7323	.00265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198890-C-1-B Acquired: 6/15/2022 22:20:39 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.64850**	**.01929**	**.00002**	**32.137**	**.00138**
Stddev	.00121	.00004	.00002	.145	.00026
%RSD	.18670	.19805	141.29	.45189	19.029
#1	.64936	.01932	.00000	32.240	.00119
#2	.64765	.01927	.00003	32.034	.00156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00029**	**6.8372**	**.01438**	**.00036**
Stddev	.00	.00037	.0511	.00024	.00053
%RSD	.0047	125.52	.74712	1.6709	149.24
#1	25.02	.00055	6.8734	.01455	.00073
#2	25.02	.00003	6.8011	.01421	-.00002
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.1478**	**-.00029**	**.04653**	**1.000**	**.00042**
Stddev	.0433	.00006	.00007	.002	.00023
%RSD	.84147	20.655	.14080	.1615	55.064
#1	5.1785	-.00033	.04658	.9992	.00026
#2	5.1172	-.00025	.04649	1.002	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198890-C-1-B Acquired: 6/15/2022 22:20:39 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00049**	**.00012**	**.00319**	**1.001**
Stddev	.00074	.00017	.00037	.001
%RSD	151.24	148.25	11.563	.0612
#1	.00003	.00024	.00346	1.001
#2	-.00101	-.00001	.00293	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3004.3**	**2461.2**	**24250.**	**3496.0**
Stddev	2.6	.1	25.	11.7
%RSD	.08775	.00455	.10120	.33401
#1	3006.2	2461.2	24268.	3487.7
#2	3002.5	2461.1	24233.	3504.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.802%	95.868%	96.354%	97.558%
Range				

Sample Name: 480-198890-C-1-Bsd@5 Acquired: 6/15/2022 22:24:32 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**-.00847**	**.00132**	**.02046**	**.00361**
Stddev	.00048	.02547	.00052	.00087	.00002
%RSD	453.57	300.54	39.128	4.2450	.50120
#1	-.00023	-.02648	.00169	.02107	.00360
#2	.00044	.00954	.00095	.01985	.00362
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.49521**	**-.00007**	**.0537**	**.00008**
Stddev	.00001	.00436	.00009	.0079	.00009
%RSD	35.854	.87969	141.75	14.62	118.25
#1	.00005	.49829	-.00013	.0482	.00015
#2	.00003	.49213	.00000	.0593	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00162**	**.00213**	**.52457**	**.00023**
Stddev	.00057	.00027	.00134	.07472	.00144
%RSD	507.24	16.606	62.900	14.243	624.77
#1	-.00029	.00182	.00119	.57740	-.00079
#2	.00051	.00143	.00308	.47174	.00125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198890-C-1-Bsd@5 Acquired: 6/15/2022 22:24:32 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.13477**	**.00419**	**.00007**	**6.4634**	**.00033**
Stddev	.00269	.00007	.00009	.0146	.00015
%RSD	1.9923	1.7820	133.62	.22552	45.045
#1	.13667	.00424	.00000	6.4737	.00022
#2	.13287	.00414	.00014	6.4531	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00070**	**1.5326**	**.00896**	**.00082**
Stddev	.00	.00016	.0088	.00028	.00058
%RSD	.0063	23.419	.57694	3.1488	70.392
#1	25.02	-.00059	1.5264	.00877	.00041
#2	25.02	-.00082	1.5389	.00916	.00123
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0496**	**-.00022**	**.00942**	**1.005**	**.00036**
Stddev	.0152	.00034	.00005	.005	.00057
%RSD	1.4506	155.77	.51512	.4905	161.41
#1	1.0603	-.00045	.00939	1.008	-.00005
#2	1.0388	.00002	.00945	1.001	.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198890-C-1-Bsd@5 Acquired: 6/15/2022 22:24:32 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00038**	**-.00022**	**-.00062**	**1.000**
Stddev	.00057	.00021	.00005	.000
%RSD	152.54	93.567	8.1503	.0190
#1	-.00078	-.00037	-.00058	1.001
#2	.00003	-.00008	-.00065	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3143.3**	**2509.5**	**24807.**	**3537.7**
Stddev	8.2	3.7	41.	24.1
%RSD	.26035	.14744	.16426	.68077
#1	3137.5	2506.9	24835.	3520.7
#2	3149.1	2512.1	24778.	3554.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.141%	97.752%	98.565%	98.725%
Range				

Sample Name: 480-198890-C-1-BPDS Acquired: 6/15/2022 22:28:27 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05109**	**10.086**	**.21078**	**.24247**	**.23280**
Stddev	.00001	.023	.00024	.00044	.00030
%RSD	.00994	.22388	.11486	.18311	.13049
#1	.05109	10.070	.21061	.24278	.23301
#2	.05110	10.102	.21095	.24215	.23259
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21280**	**12.221**	**.20619**	**.0191**	**.20295**
Stddev	.00038	.015	.00001	.0006	.00003
%RSD	.17694	.12014	.00652	2.910	.01702
#1	.21307	12.232	.20618	.0187	.20293
#2	.21253	12.211	.20620	.0195	.20298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21797**	**.21188**	**10.234**	**11.566**	**.20740**
Stddev	.00021	.00018	.013	.027	.00123
%RSD	.09653	.08309	.13143	.23736	.59371
#1	.21812	.21201	10.224	11.585	.20653
#2	.21782	.21176	10.243	11.546	.20827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198890-C-1-BPDS Acquired: 6/15/2022 22:28:27 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.231**	**.23547**	**.22029**	**41.224**	**.20124**
Stddev	.016	.00015	.00018	.071	.00056
%RSD	.14418	.06455	.08364	.17194	.27827
#1	11.242	.23558	.22016	41.274	.20084
#2	11.219	.23536	.22042	41.174	.20163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.72**	**.20109**	**16.643**	**.22741**	**.20690**
Stddev	.00	.00208	.031	.00052	.00332
%RSD	.0041	1.0322	.18737	.22824	1.6024
#1	24.72	.19962	16.621	.22778	.20924
#2	24.72	.20256	16.665	.22705	.20455
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.911**	**.19731**	**.25754**	**1.011**	**.20954**
Stddev	.028	.00005	.00073	.007	.00137
%RSD	.18665	.02579	.28172	.6767	.65180
#1	14.931	.19734	.25805	1.006	.21051
#2	14.891	.19727	.25703	1.016	.20857
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198890-C-1-BPDS Acquired: 6/15/2022 22:28:27 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.21278**	**.21454**	**.20651**	**1.001**
Stddev	.00228	.00061	.00024	.000
%RSD	1.0738	.28204	.11705	.0000
#1	.21440	.21411	.20634	1.001
#2	.21117	.21497	.20668	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2914.0**	**2462.0**	**23863.**	**3557.8**
Stddev	.1	1.9	6.	20.8
%RSD	.00373	.07745	.02456	.58425
#1	2914.0	2460.6	23867.	3572.5
#2	2913.9	2463.3	23859.	3543.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.981%	95.900%	94.816%	99.285%
Range				

Sample Name: 480-198890-C-1-C MS Acquired: 6/15/2022 22:32:10 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04792**	**9.8489**	**.20454**	**.24972**	**.22567**
Stddev	.00047	.0683	.00153	.01836	.00030
%RSD	.97862	.69371	.75021	7.3525	.13276
#1	.04826	9.8006	.20346	.23674	.22588
#2	.04759	9.8973	.20563	.26270	.22546
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20663**	**12.159**	**.19762**	**.0011**	**.19542**
Stddev	.00114	.088	.00138	.0535	.00172
%RSD	.55016	.72557	.69896	4784.	.87974
#1	.20583	12.096	.19860	.0390	.19664
#2	.20743	12.221	.19665	-.0367	.19421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20795**	**.20208**	**10.040**	**11.324**	**.20089**
Stddev	.00023	.00043	.076	.090	.00449
%RSD	.10935	.21259	.75773	.79379	2.2357
#1	.20779	.20178	9.9865	11.260	.19771
#2	.20811	.20239	10.094	11.387	.20407
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198890-C-1-C MS Acquired: 6/15/2022 22:32:10 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.981**	**.22344**	**.21110**	**41.946**	**.19350**
Stddev	.048	.00031	.00152	.324	.00102
%RSD	.43877	.14083	.72017	.77230	.52950
#1	11.015	.22367	.21217	41.717	.19422
#2	10.947	.22322	.21002	42.175	.19278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.74**	**.19248**	**17.695**	**.21286**	**.20085**
Stddev	.00	.00114	1.312	.00013	.00330
%RSD	.0199	.59418	7.4133	.06305	1.6441
#1	24.73	.19329	16.768	.21296	.20319
#2	24.74	.19167	18.623	.21277	.19852
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.606**	**.22824**	**.24949**	**1.002**	**.20423**
Stddev	.100	.00087	.00169	.001	.00021
%RSD	.68769	.38278	.67912	.0727	.10444
#1	14.535	.22885	.24829	1.003	.20408
#2	14.677	.22762	.25069	1.002	.20438
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198890-C-1-C MS Acquired: 6/15/2022 22:32:10 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19911**	**.20619**	**.20233**	**1.001**
Stddev	.00109	.00056	.00043	.001
%RSD	.54609	.27319	.21306	.0961
#1	.19988	.20659	.20264	1.000
#2	.19834	.20579	.20203	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2884.3**	**2437.1**	**23425.**	**3412.9**
Stddev	14.8	10.8	131.	11.3
%RSD	.51466	.44513	.56107	.33129
#1	2873.8	2429.4	23332.	3420.9
#2	2894.8	2444.8	23518.	3404.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.055%	94.931%	93.075%	95.240%
Range				

Sample Name: 480-198890-C-1-D MSD Acquired: 6/15/2022 22:35:53 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04700**	**9.6112**	**.19919**	**.22584**	**.22256**
Stddev	.00076	.0001	.00123	.00233	.00087
%RSD	1.6215	.00072	.61843	1.0296	.38896
#1	.04646	9.6111	.19832	.22748	.22194
#2	.04754	9.6112	.20007	.22419	.22317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20248**	**11.915**	**.19538**	**.0406**	**.19306**
Stddev	.00024	.016	.00001	.0369	.00038
%RSD	.11924	.13263	.00630	90.82	.19851
#1	.20231	11.904	.19539	.0667	.19334
#2	.20265	11.926	.19537	.0145	.19279
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20421**	**.19910**	**9.8340**	**11.090**	**.19592**
Stddev	.00118	.00061	.0030	.004	.00174
%RSD	.57667	.30495	.03067	.03212	.88641
#1	.20338	.19867	9.8319	11.092	.19469
#2	.20504	.19953	9.8362	11.087	.19715
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198890-C-1-D MSD Acquired: 6/15/2022 22:35:53 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.758**	**.21978**	**.20782**	**41.492**	**.19036**
Stddev	.083	.00152	.00023	.155	.00017
%RSD	.76972	.68963	.11069	.37362	.09083
#1	10.699	.21871	.20765	41.382	.19024
#2	10.816	.22085	.20798	41.601	.19048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.74**	**.19083**	**16.249**	**.20807**	**.19736**
Stddev	.00	.00009	.162	.00106	.00552
%RSD	.0002	.04685	.99515	.50921	2.7962
#1	24.74	.19089	16.364	.20882	.19345
#2	24.74	.19077	16.135	.20732	.20126
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.278**	**.22563**	**.24504**	**1.009**	**.20083**
Stddev	.003	.00140	.00050	.001	.00059
%RSD	.02347	.62257	.20417	.0868	.29549
#1	14.276	.22663	.24468	1.008	.20041
#2	14.280	.22464	.24539	1.009	.20125
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198890-C-1-D MSD Acquired: 6/15/2022 22:35:53 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19661**	**.20207**	**.19789**	**1.001**
Stddev	.00134	.00148	.00287	.001
%RSD	.67961	.73427	1.4481	.0628
#1	.19567	.20102	.19586	1.001
#2	.19756	.20312	.19991	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2913.7**	**2458.6**	**23662.**	**3487.3**
Stddev	3.8	5.2	160.	7.1
%RSD	.13139	.21112	.67714	.20452
#1	2911.0	2455.0	23776.	3492.4
#2	2916.4	2462.3	23549.	3482.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.972%	95.769%	94.018%	97.318%
Range				

Sample Name: 480-198890-C-2-B Acquired: 6/15/2022 22:39:37 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00087**	**-.00258**	**.00045**	**.08300**	**.05053**
Stddev	.00035	.01215	.00104	.00065	.00014
%RSD	40.310	471.22	230.82	.78552	.28142
#1	-.00111	.00601	-.00028	.08346	.05063
#2	-.00062	-.01117	.00119	.08254	.05043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**181.06**	**.00050**	**.0052**	**-.00004**
Stddev	.00004	.19	.00002	.0326	.00022
%RSD	107.01	.10627	3.7449	630.7	495.51
#1	-.00001	180.93	.00052	-.0179	.00011
#2	-.00007	181.20	.00049	.0282	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00124**	**.00224**	**.01691**	**8.2195**	**.02282**
Stddev	.00035	.00040	.00118	.0611	.00028
%RSD	28.523	17.733	7.0030	.74307	1.2228
#1	.00149	.00253	.01775	8.2627	.02262
#2	.00099	.00196	.01607	8.1763	.02302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198890-C-2-B Acquired: 6/15/2022 22:39:37 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**61.876**	**4.9984**	**-.00015**	**9.7002**	**.00046**
Stddev	.195	.0226	.00009	.0186	.00052
%RSD	.31540	.45169	59.101	.19134	111.65
#1	62.014	5.0144	-.00009	9.7134	.00010
#2	61.738	4.9825	-.00021	9.6871	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.14**	**.00057**	**71.317**	**.00353**	**-.00232**
Stddev	.00	.00123	.245	.00084	.00267
%RSD	.0042	214.91	.34364	23.756	114.90
#1	25.14	-.00030	71.491	.00412	-.00044
#2	25.14	.00144	71.144	.00294	-.00421
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.0928**	**-.00057**	**.57465**	**.9989**	**.00153**
Stddev	.0063	.00027	.00123	.0020	.00023
%RSD	.10412	47.822	.21414	.2050	15.234
#1	6.0972	-.00038	.57552	.9974	.00136
#2	6.0883	-.00077	.57378	1.000	.00169
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198890-C-2-B Acquired: 6/15/2022 22:39:37 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00167**	**-.00081**	**-.00063**	**.9980**
Stddev	.00167	.00032	.00015	.0005
%RSD	99.643	39.195	24.549	.0514
#1	-.00049	-.00059	-.00074	.9976
#2	-.00285	-.00104	-.00052	.9983
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2732.5**	**2335.9**	**22951.**	**3464.9**
Stddev	4.0	.4	93.	14.8
%RSD	.14595	.01638	.40405	.42716
#1	2735.3	2335.6	22885.	3475.4
#2	2729.7	2336.1	23016.	3454.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.316%	90.988%	91.190%	96.693%
Range				

Sample Name: CCV-7032336 Acquired: 6/15/2022 22:43:36 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99782**	**49.033**	**1.0087**	**1.0649**	**1.0247**
Stddev	.00234	.159	.0003	.0011	.0020
%RSD	.23440	.32354	.02446	.10070	.19081
#1	.99947	48.921	1.0085	1.0642	1.0233
#2	.99617	49.145	1.0089	1.0657	1.0260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99600**	**49.325**	**1.0125**	**1.030**	**.98796**
Stddev	.00082	.290	.0001	.034	.00037
%RSD	.08187	.58724	.01007	3.291	.03722
#1	.99658	49.529	1.0125	1.054	.98822
#2	.99542	49.120	1.0124	1.006	.98770
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0503**	**1.0062**	**48.981**	**50.938**	**1.0119**
Stddev	.0023	.0016	.105	.107	.0020
%RSD	.21529	.16099	.21431	.21047	.19655
#1	1.0519	1.0074	49.055	51.014	1.0105
#2	1.0487	1.0051	48.906	50.862	1.0133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 22:43:36 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.759**	**1.0417**	**1.0462**	**51.116**	**.99869**
Stddev	.176	.0032	.0000	.013	.00164
%RSD	.34578	.31096	.00078	.02628	.16425
#1	50.883	1.0440	1.0462	51.125	.99985
#2	50.635	1.0395	1.0462	51.106	.99753
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.51**	**.98400**	**24.817**	**1.0102**	**1.0348**
Stddev	.00	.00180	.058	.0012	.0017
%RSD	.0035	.18321	.23205	.12078	.16800
#1	37.51	.98527	24.777	1.0111	1.0360
#2	37.51	.98272	24.858	1.0093	1.0336
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7670**	**.97136**	**1.0086**	**1.492**	**1.0061**
Stddev	.0332	.00002	.0012	.003	.0025
%RSD	.33992	.00241	.12243	.1892	.25158
#1	9.7905	.97137	1.0077	1.494	1.0079
#2	9.7435	.97134	1.0094	1.490	1.0043
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 22:43:36 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0297**	**1.0509**	**1.0040**	**1.515**
Stddev	.0013	.0010	.0060	.004
%RSD	.12653	.09216	.59217	.2381
#1	1.0288	1.0516	1.0082	1.512
#2	1.0306	1.0502	.99976	1.517
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2666.3**	**2376.7**	**22565.**	**3330.9**
Stddev	2.5	2.3	91.	25.8
%RSD	.09506	.09705	.40299	.77549
#1	2664.5	2375.0	22501.	3312.6
#2	2668.1	2378.3	22629.	3349.1

Sample Name: CCB-7026764 Acquired: 6/15/2022 22:47:17 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.01180**	**-.00010**	**.00604**	**.00006**
Stddev	.00010	.00008	.00071	.00013	.00001
%RSD	105.04	.71407	717.55	2.1545	20.695
#1	-.00003	-.01174	.00040	.00614	.00007
#2	-.00017	-.01186	-.00060	.00595	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**-.00430**	**-.00013**	**.0454**	**-.00010**
Stddev	.00001	.00207	.00010	.0440	.00007
%RSD	8.7555	48.116	75.687	96.80	72.513
#1	.00013	-.00284	-.00020	.0766	-.00005
#2	.00011	-.00576	-.00006	.0143	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00175**	**.00013**	**.12257**	**-.00106**
Stddev	.00020	.00035	.00005	.02866	.00063
%RSD	120.05	19.859	37.276	23.385	59.464
#1	-.00003	.00199	.00016	.10230	-.00061
#2	-.00031	.00150	.00009	.14284	-.00150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 22:47:17 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00214**	**-.00005**	**.00049**	**.05254**	**-.00004**
Stddev	.00108	.00003	.00000	.01346	.00025
%RSD	50.368	63.932	.56646	25.615	589.80
#1	.00290	-.00003	.00049	.04302	-.00022
#2	.00138	-.00007	.00049	.06205	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00133**	**.13302**	**.00332**	**.00049**
Stddev	.00	.00055	.00030	.00072	.00044
%RSD	.0037	41.588	.22808	21.622	90.202
#1	25.02	-.00094	.13281	.00382	.00018
#2	25.02	-.00172	.13324	.00281	.00080
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00516**	**-.00007**	**.00003**	**1.005**	**.00020**
Stddev	.01192	.00005	.00012	.000	.00036
%RSD	231.15	63.835	436.10	.0249	179.86
#1	.00327	-.00010	.00012	1.006	.00045
#2	-.01358	-.00004	-.00006	1.005	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 22:47:17 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00015**	**-.00162**	**1.001**
Stddev	.00058	.00029	.00010	.000
%RSD	432.00	194.16	6.3012	.0048
#1	.00028	.00006	-.00155	1.001
#2	-.00055	-.00036	-.00169	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3149.1**	**2508.9**	**24705.**	**3528.1**
Stddev	1.0	.0	37.	2.7
%RSD	.03067	.00192	.14844	.07584
#1	3149.8	2508.9	24731.	3526.2
#2	3148.5	2508.8	24679.	3530.0

Sample Name: CCVL-7028546 Acquired: 6/15/2022 22:51:14 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00674**	**.17210**	**.01429**	**.02426**	**.00216**
Stddev	.00142	.00516	.00080	.00028	.00001
%RSD	20.996	3.0004	5.6031	1.1567	.57559
#1	.00775	.16845	.01373	.02445	.00217
#2	.00574	.17575	.01486	.02406	.00215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**.47604**	**.00187**	**.0698**	**.00377**
Stddev	.00010	.00071	.00005	.0015	.00006
%RSD	4.7776	.14875	2.8991	2.191	1.6604
#1	.00199	.47654	.00191	.0687	.00372
#2	.00213	.47554	.00183	.0709	.00381
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00410**	**.01067**	**.04739**	**.49439**	**.02554**
Stddev	.00005	.00047	.00079	.00480	.00158
%RSD	1.1410	4.3719	1.6641	.97154	6.2042
#1	.00413	.01100	.04684	.49778	.02666
#2	.00407	.01034	.04795	.49099	.02442
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/15/2022 22:51:14 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19657**	**.00317**	**.01012**	**.99268**	**.00932**
Stddev	.00063	.00003	.00017	.01364	.00022
%RSD	.32018	.94845	1.7284	1.3742	2.3185
#1	.19702	.00315	.01024	1.0023	.00947
#2	.19613	.00319	.01000	.98303	.00916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00904**	W **.27242**	**.02281**	**.02502**
Stddev	.00	.00154	.00050	.00013	.00342
%RSD	.0020	17.001	.18483	.56761	13.669
#1	25.00	.00795	.27206	.02272	.02260
#2	25.00	.01012	.27277	.02290	.02744
Check ?	Chk Fail	Chk Pass	Chk Warn	Chk Pass	Chk Pass
Value	.0060		.20000		
Range	50.00%		30.000%		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45738**	**.00908**	**.00508**	F **.9938**	**.00499**
Stddev	.00843	.00011	.00003	.0034	.00049
%RSD	1.8438	1.2305	.50650	.3468	9.8823
#1	.46335	.00900	.00507	.9962	.00464
#2	.45142	.00916	.00510	.9914	.00534
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/15/2022 22:51:14 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01929**	**.00449**	**.01001**	F **1.001**
Stddev	.00029	.00050	.00009	.000
%RSD	1.4903	11.180	.86421	.0187
#1	.01950	.00413	.00995	1.001
#2	.01909	.00484	.01007	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3138.3**	**2498.4**	**24282.**	**3450.2**
Stddev	11.7	9.5	9.	.7
%RSD	.37417	.38017	.03879	.02161
#1	3130.0	2491.7	24275.	3450.7
#2	3146.6	2505.1	24288.	3449.7

Sample Name: 480-198890-C-3-B Acquired: 6/15/2022 22:55:09 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00283**	**.00812**	**.11916**	**.05524**
Stddev	.00012	.01413	.00045	.00007	.00024
%RSD	76.952	499.21	5.5126	.05970	.42941
#1	-.00007	.01282	.00781	.11911	.05508
#2	-.00025	-.00716	.00844	.11921	.05541
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**38.197**	**.00023**	**.0459**	**.00399**
Stddev	.00001	.133	.00005	.0121	.00010
%RSD	19.885	.34697	22.989	26.44	2.5486
#1	.00005	38.103	.00020	.0373	.00407
#2	.00007	38.291	.00027	.0545	.00392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04071**	**.00160**	**8.9350**	**5.0792**	**.00279**
Stddev	.00053	.00014	.0156	.0233	.00087
%RSD	1.3007	8.7742	.17415	.45773	31.116
#1	.04109	.00170	8.9240	5.0628	.00340
#2	.04034	.00150	8.9460	5.0957	.00217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198890-C-3-B Acquired: 6/15/2022 22:55:09 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.621**	**2.2343**	**-.00017**	**15.684**	**.01021**
Stddev	.031	.0064	.00006	.023	.00036
%RSD	.14282	.28497	37.381	.14954	3.5014
#1	21.599	2.2298	-.00021	15.667	.01046
#2	21.643	2.2388	-.00012	15.700	.00996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.06**	**.00018**	**48.323**	**.01193**	**-.00066**
Stddev	.00	.00096	.005	.00145	.00323
%RSD	.0014	522.95	.01122	12.145	492.51
#1	25.06	-.00049	48.327	.01295	.00163
#2	25.06	.00086	48.319	.01090	-.00294
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.4148**	**.00040**	**.16529**	**1.005**	**.00027**
Stddev	.0455	.00004	.00088	.001	.00052
%RSD	.84047	9.9552	.53017	.1362	191.07
#1	5.3827	.00037	.16467	1.004	.00064
#2	5.4470	.00042	.16591	1.006	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198890-C-3-B Acquired: 6/15/2022 22:55:09 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00000**	**.00012**	**1.000**
Stddev	.00158	.00058	.00070	.000
%RSD	1212.1	16773.	594.23	.0084
#1	.00099	.00041	-.00038	1.000
#2	-.00125	-.00041	.00061	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2933.4**	**2440.6**	**23860.**	**3534.8**
Stddev	6.9	3.5	84.	14.6
%RSD	.23472	.14393	.35232	.41434
#1	2938.2	2443.1	23920.	3545.2
#2	2928.5	2438.1	23801.	3524.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.586%	95.066%	94.805%	98.643%
Range				

Sample Name: 480-198890-C-4-B Acquired: 6/15/2022 22:59:00 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**-.01391**	**.00172**	**.01503**	**.00307**
Stddev	.00014	.00224	.00037	.00021	.00003
%RSD	32.055	16.086	21.388	1.3716	1.0867
#1	.00034	-.01232	.00198	.01489	.00305
#2	.00054	-.01549	.00146	.01518	.00309
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**1.9013**	**-.00006**	**.0149**	**.00010**
Stddev	.00000	.0076	.00003	.0472	.00012
%RSD	.48099	.39786	44.926	317.8	121.01
#1	-.00006	1.9067	-.00004	-.0185	.00001
#2	-.00006	1.8960	-.00008	.0482	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00374**	**.00253**	**1.6410**	**1.3025**	**.00157**
Stddev	.00046	.00051	.0011	.0532	.00024
%RSD	12.240	20.288	.06449	4.0813	15.574
#1	.00342	.00217	1.6417	1.3401	.00174
#2	.00406	.00289	1.6402	1.2649	.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198890-C-4-B Acquired: 6/15/2022 22:59:00 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.6026**	**.05558**	**-.00001**	**10.583**	**.00141**
Stddev	.0043	.00013	.00009	.028	.00012
%RSD	.16445	.22995	1302.4	.26438	8.4401
#1	2.5996	.05549	.00006	10.603	.00149
#2	2.6056	.05567	-.00007	10.563	.00132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00100**	**2.9226**	**.00255**	**-.00111**
Stddev	.00	.00119	.0083	.00143	.00274
%RSD	.0003	119.30	.28229	55.995	246.76
#1	25.04	.00184	2.9284	.00154	.00083
#2	25.04	.00016	2.9167	.00357	-.00305
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.7308**	**.00002**	**.01161**	**1.003**	**-.00007**
Stddev	.0324	.00058	.00015	.002	.00031
%RSD	.41960	2947.9	1.3140	.1951	466.35
#1	7.7538	.00043	.01151	1.002	.00015
#2	7.7079	-.00039	.01172	1.004	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198890-C-4-B Acquired: 6/15/2022 22:59:00 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00173**	**-.00023**	**.01059**	**1.001**
Stddev	.00016	.00031	.00025	.000
%RSD	8.9647	133.79	2.3690	.0337
#1	-.00184	-.00001	.01077	1.002
#2	-.00162	-.00045	.01041	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3093.8**	**2491.6**	**24381.**	**3515.7**
Stddev	1.2	1.4	38.	28.8
%RSD	.04006	.05581	.15654	.81923
#1	3094.7	2492.6	24408.	3495.4
#2	3092.9	2490.6	24354.	3536.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.596%	97.054%	96.872%	98.110%
Range				

Sample Name: 480-198890-C-5-B Acquired: 6/15/2022 23:02:52 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**-.00227**	**.00113**	**.00934**	**.03568**
Stddev	.00011	.02508	.00040	.00036	.00001
%RSD	50.336	1103.3	35.504	3.9093	.03252
#1	-.00031	.01546	.00141	.00959	.03568
#2	-.00015	-.02001	.00084	.00908	.03567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**12.574**	**.00018**	**.0164**	**.00004**
Stddev	.00000	.008	.00000	.0070	.00007
%RSD	3.9162	.06535	2.2468	42.72	206.48
#1	.00006	12.579	.00018	.0115	-.00002
#2	.00007	12.568	.00018	.0214	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**.00272**	**.06529**	**1.8566**	**.00020**
Stddev	.00025	.00031	.00163	.0274	.00002
%RSD	30.926	11.425	2.4944	1.4786	8.7527
#1	.00097	.00294	.06414	1.8760	.00019
#2	.00062	.00250	.06644	1.8372	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198890-C-5-B Acquired: 6/15/2022 23:02:52 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.6252**	**.00395**	**-.00022**	**7.9798**	**.00695**
Stddev	.0115	.00005	.00009	.0351	.00032
%RSD	.13334	1.3065	41.494	.44004	4.5778
#1	8.6333	.00398	-.00028	8.0046	.00672
#2	8.6171	.00391	-.00015	7.9549	.00717
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00041**	**17.963**	**.00176**	**.00098**
Stddev	.00	.00037	.048	.00113	.00041
%RSD	.0040	88.381	.26565	64.537	41.570
#1	25.02	.00067	17.997	.00256	.00069
#2	25.02	.00016	17.930	.00095	.00126
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.5895**	**-.00007**	**.05975**	**1.002**	**.00023**
Stddev	.0120	.00035	.00004	.002	.00054
%RSD	.15769	518.64	.06440	.1668	233.10
#1	7.5979	.00018	.05972	1.004	.00062
#2	7.5810	-.00031	.05978	1.001	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198890-C-5-B Acquired: 6/15/2022 23:02:52 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00137**	**-.00019**	**.03536**	**1.000**
Stddev	.00053	.00009	.00016	.001
%RSD	38.385	49.085	.45114	.1189
#1	-.00174	-.00025	.03547	1.001
#2	-.00100	-.00012	.03525	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3051.4**	**2477.0**	**24546.**	**3553.7**
Stddev	4.1	2.6	47.	11.3
%RSD	.13430	.10331	.19195	.31658
#1	3054.3	2478.9	24513.	3561.7
#2	3048.5	2475.2	24579.	3545.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.273%	96.487%	97.529%	99.170%
Range				

Sample Name: 480-198890-C-6-B Acquired: 6/15/2022 23:06:44 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**.01160**	**.00307**	**.01896**	**.11372**
Stddev	.00052	.00190	.00002	.00032	.00037
%RSD	100.01	16.413	.61839	1.6863	.32216
#1	-.00089	.01295	.00305	.01873	.11346
#2	-.00015	.01025	.00308	.01919	.11398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00084**	**15.707**	**-.00008**	**-.0095**	**.01324**
Stddev	.00004	.057	.00006	.0152	.00012
%RSD	5.2339	.36440	78.085	159.6	.87760
#1	.00087	15.747	-.00012	.0012	.01332
#2	.00081	15.666	-.00003	-.0202	.01315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00116**	**.00442**	**26.052**	**2.1872**	**.01327**
Stddev	.00036	.00073	.107	.0406	.00038
%RSD	30.981	16.476	.41233	1.8562	2.8381
#1	.00091	.00494	26.128	2.1585	.01300
#2	.00142	.00391	25.976	2.2159	.01353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198890-C-6-B Acquired: 6/15/2022 23:06:44 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.481**	**1.9050**	**.00220**	**4.9512**	**.02867**
Stddev	.003	.0019	.00026	.0011	.00009
%RSD	.02548	.10072	11.916	.02280	.30259
#1	12.478	1.9037	.00239	4.9520	.02873
#2	12.483	1.9064	.00202	4.9504	.02861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.28**	**.00468**	**28.670**	**.00546**	**.00463**
Stddev	.00	.00008	.017	.00049	.00181
%RSD	.0006	1.8043	.06052	9.0312	39.175
#1	25.28	.00474	28.682	.00511	.00591
#2	25.28	.00462	28.658	.00581	.00335
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.9649**	**.00002**	**.11747**	**1.017**	**.00009**
Stddev	.0495	.00016	.00038	.009	.00001
%RSD	.55222	935.65	.32104	.8519	11.630
#1	8.9999	-.00009	.11773	1.011	.00008
#2	8.9299	.00013	.11720	1.023	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198890-C-6-B Acquired: 6/15/2022 23:06:44 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00132**	**.00528**	**.03552**	**1.001**
Stddev	.00133	.00029	.00011	.000
%RSD	101.41	5.5603	.31506	.0349
#1	-.00226	.00549	.03560	1.001
#2	-.00037	.00507	.03544	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3028.2**	**2476.9**	**24453.**	**3560.8**
Stddev	2.8	2.1	27.	7.3
%RSD	.09326	.08362	.11019	.20496
#1	3026.2	2475.5	24434.	3555.6
#2	3030.2	2478.4	24472.	3565.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.548%	96.482%	97.159%	99.368%
Range				

Sample Name: 480-198896-D-1-A Acquired: 6/15/2022 23:10:34 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.12011**	**.06757**	**17.224**	**.26351**
Stddev	.00123	.00959	.00118	.030	.00005
%RSD	1786.6	7.9873	1.7427	.17160	.01767
#1	.00080	.12690	.06840	17.203	.26348
#2	-.00094	.11333	.06674	17.244	.26354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**89.911**	**.00080**	**.0164**	**.02898**
Stddev	.00002	.160	.00010	.0042	.00015
%RSD	18.846	.17777	12.704	25.34	.50531
#1	.00010	89.798	.00073	.0194	.02909
#2	.00008	90.024	.00087	.0135	.02888
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06102**	**.00302**	**1.3582**	**375.14**	**.87559**
Stddev	.00027	.00019	.0033	.54	.00024
%RSD	.44651	6.3351	.24150	.14442	.02757
#1	.06121	.00316	1.3605	374.76	.87542
#2	.06082	.00289	1.3558	375.52	.87576
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198896-D-1-A Acquired: 6/15/2022 23:10:34 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**168.96**	**.06548**	**.00495**	F **1867.4**	**.12684**
Stddev	.11	.00021	.00004	1.6	.00059
%RSD	.06374	.31636	.87047	.08764	.46842
#1	168.89	.06563	.00498	1866.3	.12726
#2	169.04	.06533	.00492	1868.6	.12642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.37**	**.00722**	F **125.47**	**.00405**	**-.00056**
Stddev	.00	.00098	.09	.00056	.00196
%RSD	.0082	13.618	.06823	13.810	349.30
#1	27.37	.00652	125.41	.00366	.00082
#2	27.38	.00791	125.53	.00445	-.00194
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.488**	**.00275**	**.90303**	**1.003**	**.07639**
Stddev	.149	.00032	.00099	.004	.00104
%RSD	.54210	11.582	.10994	.3909	1.3668
#1	27.383	.00298	.90232	.9999	.07713
#2	27.594	.00253	.90373	1.005	.07565
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198896-D-1-A Acquired: 6/15/2022 23:10:34 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00222**	**.18558**	**.00842**	**1.061**
Stddev	.00179	.00017	.00019	.000
%RSD	80.592	.09180	2.2231	.0422
#1	-.00348	.18546	.00855	1.061
#2	-.00095	.18570	.00829	1.060
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2237.1**	**2126.1**	**19887.**	**3367.0**
Stddev	3.0	3.4	49.	14.5
%RSD	.13405	.15800	.24513	.43071
#1	2235.0	2123.7	19921.	3377.2
#2	2239.2	2128.4	19852.	3356.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	69.847%	82.815%	79.016%	93.958%
Range				

Sample Name: 480-198896-D-2-A Acquired: 6/15/2022 23:14:28 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**.00210**	**.03053**	**2.3222**	**.06765**
Stddev	.00033	.02858	.00102	.0011	.00016
%RSD	54.558	1362.0	3.3349	.04677	.23484
#1	-.00083	.02231	.03125	2.3214	.06754
#2	-.00037	-.01811	.02981	2.3229	.06776
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**89.215**	**.00030**	**.0155**	**.00238**
Stddev	.00004	.100	.00006	.0424	.00019
%RSD	74.439	.11231	18.613	274.1	7.8422
#1	.00002	89.144	.00034	-.0145	.00251
#2	.00008	89.285	.00026	.0455	.00225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01512**	**.00371**	**7.3897**	**56.921**	**.07397**
Stddev	.00036	.00021	.0053	.117	.00020
%RSD	2.3959	5.6146	.07127	.20566	.27374
#1	.01487	.00357	7.3860	56.838	.07383
#2	.01538	.00386	7.3935	57.003	.07412
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198896-D-2-A Acquired: 6/15/2022 23:14:28 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**57.096**	**.07820**	**.00205**	**229.79**	**.01593**
Stddev	.166	.00023	.00018	.43	.00056
%RSD	.29098	.28812	8.9225	.18915	3.5259
#1	56.978	.07836	.00192	229.48	.01633
#2	57.213	.07804	.00218	230.10	.01553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.40**	**.00055**	**62.332**	**.00967**	**.00064**
Stddev	.00	.00233	.006	.00142	.00060
%RSD	.0009	427.17	.01032	14.727	94.194
#1	25.40	-.00110	62.328	.00867	.00106
#2	25.40	.00219	62.337	.01068	.00021
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.9033**	**.00023**	**.31988**	**1.002**	**.02082**
Stddev	.0013	.00015	.00053	.001	.00016
%RSD	.01587	66.383	.16413	.1325	.77207
#1	7.9024	.00034	.31951	1.001	.02094
#2	7.9042	.00012	.32026	1.003	.02071
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198896-D-2-A Acquired: 6/15/2022 23:14:28 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00109**	**.03070**	**.01193**	**1.005**
Stddev	.00231	.00012	.00065	.000
%RSD	211.61	.39807	5.4796	.0252
#1	-.00273	.03061	.01147	1.005
#2	.00054	.03078	.01239	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2653.1**	**2339.4**	**22618.**	**3564.5**
Stddev	3.8	2.0	66.	.7
%RSD	.14387	.08615	.29387	.01847
#1	2650.4	2340.9	22665.	3564.0
#2	2655.7	2338.0	22571.	3564.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.835%	91.126%	89.867%	99.470%
Range				

Sample Name: 480-198896-D-3-A Acquired: 6/15/2022 23:18:23 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**1.2549**	**.02902**	**7.6259**	**.33464**
Stddev	.00080	.0023	.00186	.0004	.00058
%RSD	334.57	.18561	6.4042	.00579	.17189
#1	.00033	1.2533	.02771	7.6256	.33423
#2	-.00081	1.2566	.03034	7.6262	.33504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**112.27**	**.00077**	**.0379**	**.01728**
Stddev	.00002	.15	.00000	.0376	.00004
%RSD	17.371	.13259	.25668	99.28	.24035
#1	.00010	112.37	.00077	.0645	.01731
#2	.00012	112.16	.00078	.0113	.01725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03122**	**.00742**	**7.4380**	**292.65**	**.51367**
Stddev	.00070	.00009	.0019	.03	.00285
%RSD	2.2481	1.1692	.02536	.01133	.55414
#1	.03072	.00736	7.4393	292.63	.51569
#2	.03172	.00748	7.4367	292.68	.51166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198896-D-3-A Acquired: 6/15/2022 23:18:23 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**146.70**	**.11636**	**.03161**	F **1075.0**	**.14705**
Stddev	.26	.00019	.00019	1.2	.00006
%RSD	.17546	.16631	.59647	.11339	.04292
#1	146.51	.11622	.03147	1075.8	.14700
#2	146.88	.11650	.03174	1074.1	.14709
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.08**	**.00580**	**55.809**	**.01215**	**.00191**
Stddev	.00	.00058	.062	.00039	.00048
%RSD	.0106	10.066	.11079	3.2226	25.171
#1	26.08	.00538	55.853	.01242	.00225
#2	26.08	.00621	55.765	.01187	.00157
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.542**	**.00641**	**.94027**	**1.004**	**.07702**
Stddev	.034	.00134	.00042	.007	.00003
%RSD	.22038	20.845	.04453	.7204	.04081
#1	15.566	.00736	.94057	1.009	.07705
#2	15.518	.00547	.93998	.9992	.07700
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198896-D-3-A Acquired: 6/15/2022 23:18:23 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00110**	**.42265**	**.03007**	**1.024**
Stddev	.00096	.00056	.00038	.001
%RSD	86.800	.13223	1.2583	.1002
#1	-.00043	.42226	.03034	1.025
#2	-.00178	.42305	.02981	1.024
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2371.8**	**2211.7**	**21017.**	**3475.0**
Stddev	5.7	4.6	76.	6.8
%RSD	.24036	.20774	.36214	.19606
#1	2367.7	2208.5	21071.	3479.8
#2	2375.8	2215.0	20963.	3470.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.052%	86.152%	83.508%	96.973%
Range				

Sample Name: 480-198896-D-4-A Acquired: 6/15/2022 23:22:17 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**-.00905**	**.00173**	**.62760**	**.08299**
Stddev	.00043	.00978	.00059	.00198	.00012
%RSD	63.188	108.07	33.992	.31626	.14152
#1	-.00037	-.00213	.00215	.62620	.08291
#2	-.00098	-.01597	.00132	.62900	.08307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**175.37**	**.00064**	**.0245**	**.00233**
Stddev	.00004	.09	.00006	.0191	.00008
%RSD	129.45	.05221	9.5965	77.92	3.5825
#1	.00000	175.44	.00068	.0110	.00238
#2	.00006	175.31	.00060	.0379	.00227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00152**	**.00692**	**.93209**	**5.5086**	**-.00146**
Stddev	.00030	.00013	.00133	.0251	.00036
%RSD	19.536	1.8278	.14221	.45649	24.732
#1	.00173	.00701	.93115	5.5264	-.00172
#2	.00131	.00683	.93302	5.4908	-.00121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198896-D-4-A Acquired: 6/15/2022 23:22:17 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**150.52**	**.06389**	**.00019**	**104.25**	**.03835**
Stddev	.48	.00031	.00025	.00	.00019
%RSD	.31830	.49176	133.75	.00408	.49549
#1	150.18	.06366	.00036	104.24	.03822
#2	150.86	.06411	.00001	104.25	.03849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00044**	**39.754**	**.00078**	**-.00147**
Stddev	.00	.00133	.052	.00265	.00380
%RSD	.0069	302.76	.13010	339.56	258.41
#1	25.02	-.00050	39.717	.00266	-.00416
#2	25.02	.00138	39.791	-.00109	.00122
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.0644**	**-.00028**	**.25536**	**1.005**	**.00126**
Stddev	.0002	.00025	.00081	.002	.00022
%RSD	.00283	89.401	.31722	.2222	17.649
#1	8.0643	-.00045	.25593	1.007	.00142
#2	8.0646	-.00010	.25479	1.004	.00111
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198896-D-4-A Acquired: 6/15/2022 23:22:17 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00126**	**-.00069**	**.11171**	**1.001**
Stddev	.00004	.00018	.00004	.001
%RSD	3.5455	26.439	.04025	.0861
#1	-.00129	-.00082	.11167	1.002
#2	-.00123	-.00056	.11174	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2618.7**	**2310.6**	**22652.**	**3486.2**
Stddev	9.5	10.9	103.	3.2
%RSD	.36444	.47118	.45255	.09125
#1	2625.4	2318.3	22724.	3483.9
#2	2611.9	2302.9	22579.	3488.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.761%	90.004%	90.002%	97.285%
Range				

Sample Name: 480-198894-C-1-B Acquired: 6/15/2022 23:26:07 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00146**	**.58521**	**.00505**	**.05029**	**.05105**
Stddev	.00005	.01460	.00137	.00025	.00002
%RSD	3.2939	2.4943	27.069	.49579	.04041
#1	-.00149	.57489	.00409	.05047	.05106
#2	-.00142	.59553	.00602	.05011	.05103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**38.558**	**.00063**	**-.0160**	**.01738**
Stddev	.00005	.035	.00005	.0046	.00011
%RSD	23.849	.09074	8.7032	28.55	.63205
#1	.00016	38.583	.00066	-.0192	.01745
#2	.00023	38.534	.00059	-.0127	.01730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00636**	**31.169**	**4.0809**	**.00060**
Stddev	.00036	.00068	.043	.0531	.00245
%RSD	209.99	10.624	.13670	1.3020	409.67
#1	.00008	.00588	31.139	4.1184	-.00113
#2	-.00043	.00684	31.199	4.0433	.00233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198894-C-1-B Acquired: 6/15/2022 23:26:07 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.058**	**20.596**	**-.00076**	**18.722**	**.00416**
Stddev	.081	.078	.00027	.075	.00016
%RSD	.26029	.37886	35.381	.40050	3.7281
#1	31.115	20.651	-.00057	18.775	.00427
#2	31.001	20.541	-.00095	18.669	.00405
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.98**	**.00671**	**50.398**	**.00478**	**.00355**
Stddev	.00	.00008	.083	.00143	.00239
%RSD	.0046	1.1761	.16487	30.000	67.156
#1	24.98	.00676	50.340	.00580	.00187
#2	24.98	.00665	50.457	.00377	.00524
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4668**	**-.00025**	**.16438**	**1.017**	**.00097**
Stddev	.0000	.00022	.00005	.000	.00006
%RSD	.00263	89.143	.02894	.0059	5.7409
#1	1.4668	-.00009	.16435	1.017	.00101
#2	1.4667	-.00040	.16442	1.017	.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198894-C-1-B Acquired: 6/15/2022 23:26:07 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00373**	**.00113**	**.01288**	**.9957**
Stddev	.00097	.00051	.00003	.0008
%RSD	26.110	44.944	.24548	.0762
#1	-.00304	.00077	.01285	.9963
#2	-.00442	.00149	.01290	.9952
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2890.4**	**2474.9**	**24385.**	**3587.9**
Stddev	8.0	10.2	62.	3.8
%RSD	.27654	.41238	.25347	.10698
#1	2896.1	2482.1	24342.	3590.6
#2	2884.8	2467.7	24429.	3585.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.246%	96.402%	96.891%	100.12%
Range				

Sample Name: CCV-7032336 Acquired: 6/15/2022 23:30:05 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0103**	**49.383**	**1.0264**	**1.0753**	**1.0349**
Stddev	.0052	.013	.0037	.0008	.0002
%RSD	.51421	.02709	.35561	.07350	.01558
#1	1.0066	49.374	1.0239	1.0748	1.0350
#2	1.0140	49.393	1.0290	1.0759	1.0348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99880**	**48.795**	**1.0199**	**1.022**	**.99224**
Stddev	.00027	.040	.0008	.012	.00127
%RSD	.02740	.08266	.07712	1.214	.12800
#1	.99900	48.823	1.0205	1.013	.99313
#2	.99861	48.766	1.0194	1.031	.99134
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0470**	**1.0142**	**49.427**	**51.159**	**1.0238**
Stddev	.0050	.0060	.159	.027	.0014
%RSD	.48169	.58965	.32187	.05204	.13359
#1	1.0434	1.0099	49.314	51.178	1.0248
#2	1.0505	1.0184	49.539	51.140	1.0229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 23:30:05 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.956**	**1.0376**	**1.0482**	**51.171**	**1.0040**
Stddev	.096	.0038	.0010	.068	.0005
%RSD	.18851	.36563	.09940	.13203	.05177
#1	50.888	1.0350	1.0489	51.219	1.0044
#2	51.024	1.0403	1.0474	51.123	1.0037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.72**	**.98753**	**25.169**	**1.0177**	**1.0426**
Stddev	.01	.00067	.016	.0022	.0039
%RSD	.0281	.06814	.06314	.21548	.37701
#1	37.73	.98801	25.158	1.0162	1.0454
#2	37.72	.98706	25.181	1.0193	1.0399
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8421**	**.97907**	**1.0200**	**1.496**	**1.0115**
Stddev	.0232	.00156	.0007	.002	.0050
%RSD	.23566	.15961	.06820	.1244	.49803
#1	9.8257	.98017	1.0205	1.497	1.0079
#2	9.8585	.97796	1.0195	1.494	1.0150
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/15/2022 23:30:05 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0294**	**1.0498**	**1.0007**	**1.515**
Stddev	.0063	.0017	.0011	.002
%RSD	.61223	.16232	.11004	.1139
#1	1.0338	1.0486	.99992	1.517
#2	1.0249	1.0510	1.0015	1.514
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2699.5**	**2397.2**	**22910.**	**3438.3**
Stddev	.6	2.8	21.	3.7
%RSD	.02183	.11658	.09259	.10676
#1	2700.0	2399.2	22925.	3435.7
#2	2699.1	2395.2	22895.	3440.9

Sample Name: CCB-7026764 Acquired: 6/15/2022 23:33:46 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**-.01120**	**.00047**	**.00972**	**.00008**
Stddev	.00019	.02839	.00105	.00017	.00001
%RSD	44.549	253.49	220.66	1.7969	12.795
#1	.00028	.00887	.00121	.00984	.00008
#2	.00055	-.03127	-.00027	.00959	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**-.00430**	**.00006**	**.0324**	**.00003**
Stddev	.00002	.00326	.00016	.0224	.00007
%RSD	23.900	75.782	288.50	69.19	196.52
#1	.00006	-.00199	-.00006	.0165	.00008
#2	.00008	-.00660	.00017	.0483	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00118**	**-.00046**	**.14965**	**-.00263**
Stddev	.00024	.00053	.00217	.01569	.00095
%RSD	128.02	45.002	474.04	10.487	36.045
#1	.00002	.00081	-.00199	.13856	-.00196
#2	.00035	.00156	.00108	.16075	-.00329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 23:33:46 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00380**	**.00028**	**.00022**	**.06271**	**.00006**
Stddev	.00085	.00000	.00026	.00125	.00021
%RSD	22.345	.13153	119.26	1.9999	349.92
#1	.00320	.00028	.00040	.06360	-.00009
#2	.00441	.00028	.00003	.06183	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00078**	**.07530**	**.00073**	**.00102**
Stddev	.00	.00016	.00469	.00003	.00540
%RSD	.0006	20.353	6.2254	4.0274	529.01
#1	25.02	-.00089	.07861	.00075	.00484
#2	25.02	-.00067	.07198	.00071	-.00280
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01906**	**-.00003**	**-.00002**	**1.003**	**.00021**
Stddev	.00351	.00021	.00007	.002	.00014
%RSD	18.396	614.47	305.09	.1892	64.405
#1	.02154	-.00018	-.00007	1.004	.00012
#2	.01658	.00011	.00002	1.001	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/15/2022 23:33:46 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00062**	**.00014**	**-.00153**	**1.000**
Stddev	.00060	.00023	.00020	.001
%RSD	95.494	157.20	12.910	.1041
#1	.00105	-.00002	-.00167	.9997
#2	.00020	.00030	-.00139	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3177.2**	**2526.2**	**24737.**	**3544.5**
Stddev	10.5	2.7	58.	.7
%RSD	.32911	.10540	.23412	.01877
#1	3169.8	2524.4	24778.	3544.0
#2	3184.6	2528.1	24696.	3544.9

Sample Name: CCVL-7028546 Acquired: 6/15/2022 23:37:42 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00573**	**.20839**	**.01552**	W **.02691**	**.00223**
Stddev	.00015	.01960	.00120	.00072	.00003
%RSD	2.6833	9.4038	7.7558	2.6687	1.1261
#1	.00584	.19454	.01637	.02742	.00222
#2	.00562	.22225	.01467	.02640	.00225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				.02000	
Range				30.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**.50284**	**.00203**	**.0220**	**.00382**
Stddev	.00016	.00903	.00005	.0199	.00007
%RSD	7.6714	1.7966	2.5955	90.39	1.9161
#1	.00217	.50923	.00206	.0079	.00387
#2	.00195	.49645	.00199	.0361	.00377
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00428**	**.01100**	**.05634**	**.55677**	**.02566**
Stddev	.00007	.00022	.00008	.02550	.00053
%RSD	1.6409	1.9966	.13356	4.5794	2.0503
#1	.00423	.01115	.05640	.57480	.02603
#2	.00433	.01084	.05629	.53874	.02529
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/15/2022 23:37:42 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21185**	F **.00559**	**.01052**	**1.0241**	**.00918**
Stddev	.00058	.00032	.00032	.0130	.00002
%RSD	.27380	5.7333	3.0013	1.2724	.26621
#1	.21226	.00537	.01075	1.0333	.00916
#2	.21144	.00582	.01030	1.0149	.00920
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		.00300			
Range		50.000%			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00901**	**.24995**	**.01892**	**.02457**
Stddev	.00	.00027	.01227	.00121	.00172
%RSD	.0053	2.9430	4.9095	6.3788	6.9812
#1	25.00	.00882	.25862	.01807	.02336
#2	25.00	.00920	.24127	.01977	.02579
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46691**	**.00909**	**.00522**	F **1.000**	**.00479**
Stddev	.00647	.00016	.00014	.010	.00046
%RSD	1.3858	1.7869	2.5994	.9561	9.6702
#1	.47149	.00898	.00531	.9934	.00446
#2	.46233	.00921	.00512	1.007	.00511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/15/2022 23:37:42 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01796**	**.00491**	**.00991**	F **1.001**
Stddev	.00197	.00022	.00004	.001
%RSD	10.947	4.4151	.43104	.1102
#1	.01935	.00507	.00988	1.001
#2	.01657	.00476	.00994	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3154.6**	**2510.3**	**24540.**	**3439.1**
Stddev	8.2	4.2	43.	13.7
%RSD	.26011	.16601	.17591	.39701
#1	3148.8	2507.3	24510.	3429.5
#2	3160.4	2513.2	24571.	3448.8

Sample Name: 480-198894-C-2-B Acquired: 6/15/2022 23:41:38 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00096**	**.03237**	**.00358**	**.03547**	**.05820**
Stddev	.00020	.00770	.00052	.00001	.00011
%RSD	20.767	23.791	14.418	.04054	.19068
#1	-.00110	.02692	.00321	.03548	.05827
#2	-.00082	.03782	.00394	.03546	.05812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00126**	**19.051**	**.00004**	**-.0411**	**.06453**
Stddev	.00012	.020	.00003	.0246	.00009
%RSD	9.6741	.10695	60.992	59.97	.14505
#1	.00117	19.065	.00006	-.0236	.06446
#2	.00134	19.036	.00002	-.0585	.06459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.00200**	**71.431**	**3.2208**	**.02387**
Stddev	.00032	.00062	.248	.0291	.00150
%RSD	60.094	31.073	.34720	.90255	6.2668
#1	.00076	.00243	71.607	3.2413	.02281
#2	.00031	.00156	71.256	3.2002	.02493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198894-C-2-B Acquired: 6/15/2022 23:41:38 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**35.618**	**7.3009**	**-.00074**	**36.805**	**.09558**
Stddev	.053	.0057	.00023	.135	.00001
%RSD	.14886	.07754	31.074	.36567	.00925
#1	35.656	7.2969	-.00058	36.900	.09558
#2	35.581	7.3049	-.00090	36.710	.09557
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.54**	**.00544**	**38.525**	**.01233**	**.00630**
Stddev	.00	.00195	.040	.00123	.00106
%RSD	.0026	35.850	.10300	9.9347	16.871
#1	25.54	.00682	38.553	.01320	.00555
#2	25.54	.00406	38.497	.01147	.00706
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.807**	**.00015**	**.09166**	**1.029**	**.00054**
Stddev	.042	.00017	.00012	.005	.00023
%RSD	.38696	114.40	.13381	.5260	43.492
#1	10.837	.00028	.09174	1.033	.00070
#2	10.778	.00003	.09157	1.025	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198894-C-2-B Acquired: 6/15/2022 23:41:38 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00103**	**-.00114**	**.04247**	**1.001**
Stddev	.00006	.00023	.00018	.001
%RSD	6.3262	19.801	.42037	.0734
#1	-.00098	-.00098	.04259	1.001
#2	-.00107	-.00130	.04234	1.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2828.2**	**2432.3**	**23814.**	**3495.7**
Stddev	1.7	1.7	59.	9.0
%RSD	.06165	.06897	.24966	.25692
#1	2829.4	2431.2	23856.	3489.3
#2	2826.9	2433.5	23772.	3502.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.303%	94.745%	94.620%	97.550%
Range				

Sample Name: 480-198919-C-1-A Acquired: 6/15/2022 23:45:32 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**5.9379**	**.00187**	**.01589**	**.02241**
Stddev	.00047	.0157	.00093	.00020	.00007
%RSD	114.97	.26397	50.045	1.2747	.33276
#1	-.00075	5.9490	.00121	.01604	.02236
#2	-.00008	5.9268	.00253	.01575	.02247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**14.653**	**-.00002**	**.0348**	**.00182**
Stddev	.00006	.021	.00005	.0012	.00010
%RSD	8.7458	.14545	264.76	3.412	5.6396
#1	.00068	14.638	.00002	.0339	.00189
#2	.00077	14.668	-.00005	.0356	.00175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00813**	**.00220**	**8.1105**	**1.4556**	**.02468**
Stddev	.00024	.00111	.0031	.0359	.00114
%RSD	2.8983	50.329	.03771	2.4629	4.6075
#1	.00797	.00298	8.1126	1.4809	.02388
#2	.00830	.00142	8.1083	1.4302	.02548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198919-C-1-A Acquired: 6/15/2022 23:45:32 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.6588**	**.10928**	**-.00000**	**5.0747**	**.00932**
Stddev	.0139	.00001	.00004	.0004	.00018
%RSD	.20898	.01340	1816.6	.00867	1.9626
#1	6.6490	.10927	-.00003	5.0744	.00945
#2	6.6686	.10929	.00003	5.0750	.00919
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.08**	**.00505**	**1.6306**	**-.00059**	**-.00106**
Stddev	.00	.00001	.0038	.00203	.00268
%RSD	.0036	.15930	.23144	345.79	254.05
#1	25.08	.00506	1.6279	.00085	-.00295
#2	25.08	.00505	1.6333	-.00202	.00084
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.132**	**.00019**	**.10807**	**1.007**	**.24495**
Stddev	.030	.00025	.00023	.005	.00144
%RSD	.16763	131.41	.20852	.4854	.58704
#1	18.154	.00037	.10791	1.010	.24394
#2	18.111	.00001	.10823	1.003	.24597
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198919-C-1-A Acquired: 6/15/2022 23:45:32 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.01100**	**.02393**	**1.004**
Stddev	.00005	.00013	.00115	.000
%RSD	11.486	1.1412	4.8175	.0220
#1	-.00050	.01091	.02474	1.004
#2	-.00042	.01108	.02311	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3041.1**	**2498.1**	**24325.**	**3534.8**
Stddev	3.0	8.3	50.	2.8
%RSD	.09870	.33198	.20500	.07897
#1	3039.0	2492.2	24361.	3536.8
#2	3043.2	2503.9	24290.	3532.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.951%	97.306%	96.652%	98.642%
Range				

Sample Name: 480-198933-A-1-A Acquired: 6/15/2022 23:49:24 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**1.5565**	**-.00007**	**.01923**	**.01681**
Stddev	.00004	.0479	.00063	.00017	.00002
%RSD	8.5829	3.0747	916.98	.90041	.11165
#1	-.00051	1.5227	.00038	.01911	.01682
#2	-.00045	1.5904	-.00052	.01935	.01679
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00191**	**7.7544**	**.00034**	**.0476**	**.00050**
Stddev	.00015	.0104	.00005	.0108	.00012
%RSD	7.6148	.13384	15.654	22.68	24.361
#1	.00201	7.7617	.00038	.0553	.00041
#2	.00180	7.7470	.00030	.0400	.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01138**	**.19298**	**88.554**	**1.3186**	**.00014**
Stddev	.00004	.00005	.019	.0324	.00071
%RSD	.31327	.02492	.02201	2.4552	521.27
#1	.01135	.19295	88.567	1.2957	-.00037
#2	.01140	.19302	88.540	1.3415	.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198933-A-1-A Acquired: 6/15/2022 23:49:24 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6456**	**2.4971**	**.00949**	**11.680**	**.01320**
Stddev	.0022	.0019	.00014	.026	.00010
%RSD	.13407	.07734	1.4991	.22208	.73778
#1	1.6440	2.4958	.00959	11.698	.01313
#2	1.6471	2.4985	.00939	11.662	.01327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.74**	**.03541**	**1.8415**	**.01677**	**.00600**
Stddev	.00	.00154	.0032	.00141	.00070
%RSD	.0066	4.3540	.17580	8.4008	11.730
#1	24.74	.03650	1.8392	.01776	.00650
#2	24.73	.03432	1.8438	.01577	.00551
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.868**	**.00055**	**.04611**	**1.042**	**.00055**
Stddev	.017	.00031	.00021	.002	.00012
%RSD	.09787	56.955	.44598	.2238	22.681
#1	16.856	.00077	.04625	1.044	.00064
#2	16.879	.00033	.04596	1.041	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198933-A-1-A Acquired: 6/15/2022 23:49:24 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00183**	**.00008**	**1.3706**	**1.002**
Stddev	.00063	.00042	.0021	.001
%RSD	34.389	535.18	.15073	.1195
#1	-.00227	.00037	1.3721	1.002
#2	-.00138	-.00022	1.3692	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2980.9**	**2578.5**	**25143.**	**3705.1**
Stddev	6.1	2.7	16.	2.9
%RSD	.20457	.10415	.06538	.07767
#1	2976.6	2576.6	25131.	3703.1
#2	2985.3	2580.4	25154.	3707.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.072%	100.44%	99.900%	103.40%
Range				

Sample Name: 480-198933-A-2-A Acquired: 6/15/2022 23:53:13 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00093**	**-.02729**	**.00135**	**.01763**	**.00908**
Stddev	.00065	.00845	.00071	.00046	.00005
%RSD	70.256	30.953	52.215	2.6329	.49702
#1	-.00047	-.02132	.00085	.01796	.00911
#2	-.00139	-.03326	.00185	.01731	.00905
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**15.941**	**.00002**	**-.0042**	**.00011**
Stddev	.00017	.021	.00019	.0244	.00008
%RSD	239.79	.13475	931.47	577.2	68.230
#1	-.00005	15.956	-.00012	-.0215	.00017
#2	.00019	15.926	.00016	.0130	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00150**	**12.905**	**2.0774**	**.00452**
Stddev	.00004	.00051	.049	.0247	.00091
%RSD	6.7457	34.089	.37787	1.1878	20.165
#1	.00057	.00186	12.940	2.0599	.00516
#2	.00063	.00114	12.871	2.0948	.00387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198933-A-2-A Acquired: 6/15/2022 23:53:13 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.9306**	**3.3157**	**.01541**	**11.929**	**.00029**
Stddev	.0040	.0015	.00012	.027	.00012
%RSD	.10190	.04497	.79366	.22551	41.437
#1	3.9277	3.3167	.01550	11.948	.00037
#2	3.9334	3.3146	.01532	11.910	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.06**	**.00153**	**3.1168**	**.00136**	**-.00145**
Stddev	.00	.00117	.0093	.00034	.00268
%RSD	.0012	76.313	.29797	25.066	184.34
#1	25.06	.00236	3.1234	.00160	-.00335
#2	25.06	.00071	3.1102	.00111	.00044
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.186**	**-.00023**	**.06145**	**1.007**	**-.00015**
Stddev	.082	.00015	.00001	.008	.00003
%RSD	.80661	66.960	.01570	.7508	21.428
#1	10.244	-.00012	.06144	1.012	-.00017
#2	10.128	-.00034	.06145	1.001	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-198933-A-2-A Acquired: 6/15/2022 23:53:13 Type: Unk
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00112**	**-.00025**	**.00096**	**1.000**
Stddev	.00043	.00006	.00030	.001
%RSD	38.429	21.848	30.762	.0451
#1	-.00082	-.00021	.00117	.9999
#2	-.00142	-.00029	.00075	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3035.8**	**2490.7**	**24408.**	**3543.1**
Stddev	2.7	1.2	64.	.4
%RSD	.09000	.04703	.26100	.01084
#1	3033.9	2491.5	24453.	3542.9
#2	3037.8	2489.9	24363.	3543.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.786%	97.018%	96.979%	98.875%
Range				

Sample Name: CCVL-7028546 Acquired: 6/15/2022 23:57:07 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00571**	**.20099**	**.01436**	**.02264**	**.00208**
Stddev	.00006	.00230	.00060	.00034	.00002
%RSD	1.0783	1.1427	4.1682	1.4813	1.1241
#1	.00566	.19937	.01479	.02241	.00210
#2	.00575	.20261	.01394	.02288	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00200**	**.47500**	**.00172**	**.0092**	**.00360**
Stddev	.00009	.00446	.00009	.0025	.00008
%RSD	4.5318	.93948	5.1570	27.69	2.2007
#1	.00207	.47816	.00178	.0074	.00355
#2	.00194	.47185	.00166	.0109	.00366
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00391**	**.01240**	**.04875**	**.44090**	**.02648**
Stddev	.00006	.00017	.00157	.01517	.00111
%RSD	1.5835	1.3954	3.2246	3.4411	4.2021
#1	.00387	.01228	.04987	.45163	.02727
#2	.00395	.01252	.04764	.43018	.02570
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-7028546 Acquired: 6/15/2022 23:57:07 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19101**	**.00342**	**.01032**	**.98559**	**.00936**
Stddev	.00080	.00000	.00022	.00239	.00022
%RSD	.41777	.02846	2.1654	.24248	2.3857
#1	.19045	.00342	.01048	.98390	.00951
#2	.19158	.00342	.01016	.98728	.00920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00828**	**.22350**	**.01962**	**.02086**
Stddev	.00	.00029	.00207	.00012	.00043
%RSD	.0052	3.5551	.92731	.58629	2.0706
#1	25.00	.00848	.22497	.01970	.02056
#2	25.00	.00807	.22204	.01954	.02117
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.43765**	**.00878**	**.00497**	F **1.002**	**.00500**
Stddev	.00720	.00011	.00002	.006	.00043
%RSD	1.6444	1.2359	.43048	.5637	8.5137
#1	.44274	.00870	.00495	.9980	.00470
#2	.43256	.00885	.00498	1.006	.00530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-7028546 Acquired: 6/15/2022 23:57:07 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01876**	**.00468**	**.01018**	F **1.001**
Stddev	.00065	.00013	.00012	.001
%RSD	3.4695	2.8116	1.2243	.1276
#1	.01922	.00477	.01027	1.000
#2	.01830	.00459	.01009	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3131.2**	**2496.7**	**24618.**	**3489.8**
Stddev	8.0	4.6	89.	8.2
%RSD	.25397	.18521	.36236	.23601
#1	3136.8	2500.0	24555.	3495.6
#2	3125.5	2493.5	24681.	3484.0

Sample Name: CCV-7032336 Acquired: 6/16/2022 0:01:03 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0003**	**49.611**	**1.0130**	**1.0661**	**1.0345**
Stddev	.0000	.272	.0040	.0017	.0034
%RSD	.00439	.54888	.39949	.15430	.32598
#1	1.0003	49.803	1.0158	1.0673	1.0369
#2	1.0004	49.418	1.0101	1.0650	1.0321
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0049**	**49.204**	**1.0198**	**1.028**	**.99285**
Stddev	.0016	.087	.0007	.028	.00126
%RSD	.16050	.17599	.06438	2.702	.12705
#1	1.0061	49.266	1.0203	1.008	.99196
#2	1.0038	49.143	1.0193	1.048	.99374
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0463**	**1.0092**	**49.611**	**51.228**	**1.0302**
Stddev	.0015	.0004	.104	.153	.0049
%RSD	.13918	.04404	.21042	.29861	.47941
#1	1.0474	1.0095	49.538	51.336	1.0337
#2	1.0453	1.0089	49.685	51.120	1.0267
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/16/2022 0:01:03 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.621**	**1.0373**	**1.0483**	**51.294**	**1.0025**
Stddev	.123	.0022	.0005	.182	.0023
%RSD	.24369	.20895	.04732	.35476	.22910
#1	50.709	1.0388	1.0479	51.423	1.0009
#2	50.534	1.0357	1.0486	51.166	1.0041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.63**	**.98811**	**24.901**	**1.0137**	**1.0366**
Stddev	.00	.00015	.025	.0017	.0024
%RSD	.0110	.01490	.09857	.16820	.23020
#1	37.62	.98801	24.919	1.0125	1.0349
#2	37.63	.98822	24.884	1.0149	1.0383
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7550**	**.97760**	**1.0186**	**1.501**	**1.0092**
Stddev	.0341	.00061	.0030	.007	.0027
%RSD	.34968	.06213	.29397	.4664	.26393
#1	9.7791	.97717	1.0208	1.496	1.0110
#2	9.7309	.97803	1.0165	1.506	1.0073
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-7032336 Acquired: 6/16/2022 0:01:03 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0288**	**1.0464**	**.99786**	**1.517**
Stddev	.0022	.0008	.00488	.003
%RSD	.21125	.07963	.48877	.1616
#1	1.0273	1.0458	1.0013	1.519
#2	1.0303	1.0470	.99441	1.516
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2671.4**	**2379.6**	**22832.**	**3371.0**
Stddev	4.7	.3	57.	16.5
%RSD	.17669	.01290	.24938	.48819
#1	2674.8	2379.9	22792.	3382.7
#2	2668.1	2379.4	22873.	3359.4

Sample Name: CCB-7026764 Acquired: 6/16/2022 0:04:44 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.00859**	**-.00054**	**.00362**	**.00008**
Stddev	.00009	.00504	.00138	.00012	.00001
%RSD	234.67	58.671	252.93	3.4116	18.410
#1	-.00011	-.01216	.00043	.00353	.00007
#2	.00003	-.00503	-.00152	.00371	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00484**	**-.00001**	**.0180**	**.00011**
Stddev	.00003	.00037	.00003	.0337	.00008
%RSD	280.24	7.6495	210.41	187.7	73.968
#1	-.00003	-.00510	.00001	-.0059	.00017
#2	.00001	-.00458	-.00003	.0418	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00192**	**.00120**	**.03754**	**-.00069**
Stddev	.00019	.00024	.00306	.01617	.00054
%RSD	96.975	12.655	254.54	43.080	78.141
#1	.00006	.00209	.00336	.04898	-.00107
#2	.00033	.00174	-.00096	.02611	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/16/2022 0:04:44 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00587**	**.00019**	**.00037**	**.04011**	**-.00029**
Stddev	.00227	.00004	.00005	.00119	.00020
%RSD	38.683	22.259	12.929	2.9652	70.168
#1	.00747	.00016	.00034	.03927	-.00015
#2	.00426	.00022	.00041	.04095	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00096**	**.05459**	**-.00015**	**-.00038**
Stddev	.00	.00012	.00086	.00082	.00012
%RSD	.0004	12.062	1.5763	565.98	31.014
#1	25.02	-.00088	.05398	.00044	-.00046
#2	25.02	-.00104	.05519	-.00073	-.00030
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01929**	**.00036**	**.00007**	**1.003**	**.00026**
Stddev	.01295	.00003	.00011	.009	.00030
%RSD	67.111	9.5838	155.99	.8671	115.23
#1	-.01014	.00038	.00015	1.009	.00048
#2	-.02845	.00033	-.00001	.9966	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-7026764 Acquired: 6/16/2022 0:04:44 Type: QC
Method: ICAP2 New stds DEC2019(v989) Mode: CONC Corr. Factor: 1.000000
User: BLH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.00012**	**-.00171**	**1.001**
Stddev	.00018	.00034	.00044	.001
%RSD	94.609	292.67	25.522	.0532
#1	-.00006	.00036	-.00202	1.001
#2	-.00032	-.00013	-.00140	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3159.7**	**2515.7**	**24644.**	**3487.8**
Stddev	4.0	7.3	17.	24.8
%RSD	.12813	.28878	.07024	.71028
#1	3156.8	2510.5	24632.	3470.3
#2	3162.6	2520.8	24656.	3505.3

Report Generated By Teledyne Leeman QuickTrace

Analyst: BufHG5

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\L20220610D.wszf

Creation Date: 6/10/2022 4:01:09 PM

Comment:

Results

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
Calibration Blank		STD	06/10/22 04:07:03 pm	0.00	-35	56.23	-13.96		1.0000	N/A
Replicates	-62.9	-26.8	-30.8	-18.3						
Standard #1 (0.1 ug/L)		STD	06/10/22 04:08:21 pm	0.10	1206	2.56	-3.91		1.0000	N/A
Replicates	1204.7	1241.0	1210.7	1166.0						
Standard #2 (0.5 ug/L)		STD	06/10/22 04:09:39 pm	0.50	6153	1.69	35.10		1.0000	N/A
Replicates	6195.3	6235.3	6180.8	6001.3						
Standard #3 (2.0 ug/L)		STD	06/10/22 04:10:58 pm	2.00	24436	1.63	157.38		1.0000	N/A
Replicates	24657.8	24727.3	24502.6	23856.8						
Standard #4 (10. ug/L)		STD	06/10/22 04:12:17 pm	10.00	119324	1.55	576.93		1.0000	N/A
Replicates	120258.3	120815.9	119567.6	116653.9						
Standard #5 (20. ug/L)		STD	06/10/22 04:13:37 pm	20.00	219158	1.27	-564.63		1.0000	N/A
Replicates	220009.5	221537.3	219946.8	215138.3						

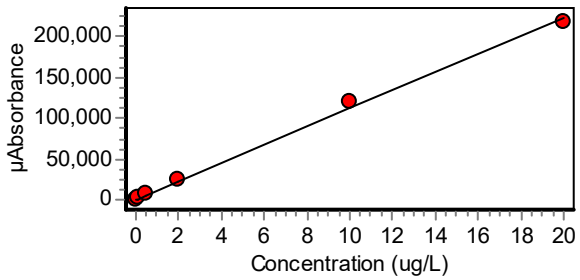
Calibration

Equation: Abs = 11269.934x + 122.630

R2: 0.99785

SEE: 4639.4120

Flags:



ICV		ICV	06/10/22 04:14:56 pm	3.01	34070	1.60			1.0000	100.41
Replicates	34301.4	34515.2	34179.4	33284.4						
ICB		ICB	06/10/22 04:16:14 pm	-0.01	-4	7.16			1.0000	N/A
Replicates	6.7	-4.5	-15.5	-3.5						
ICVL		CRDL	06/10/22 04:17:34 pm	0.17	2055	2.39			1.0000	85.74
Replicates	2080.2	2099.9	2046.6	1994.1						
CCV		CCV	06/10/22 04:18:54 pm	1.86	21079	1.57			1.0000	92.97
Replicates	21184.7	21388.8	21128.6	20614.1						
CCB		CCB	06/10/22 04:20:12 pm	-0.01	10	20.42			1.0000	N/A
Replicates	-10.4	-8.9	32.6	27.3						
MB 480-629607/1-A		UNK	06/10/22 04:21:29 pm	-0.01	28	21.27			1.0000	N/A
Replicates	34.5	51.2	21.7	3.4						
LCS 480-629607/2-A		UNK	06/10/22 04:22:47 pm	4.12	46536	1.61			1.0000	N/A
Replicates	46877.5	47145.5	46668.7	45451.0						

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-198548-M-3-B				UNK	06/10/22 04:24:04 pm	-0.01	-1	7.27			1.0000	N/A
Replicates	-2.7	-5.9	-8.1	11.9								
480-198548-M-3-Bsd@5				UNK	06/10/22 04:25:22 pm	-0.01	34	23.44			1.0000	N/A
Replicates	40.4	33.3	55.6	5.8								
480-198548-M-3-C MS				UNK	06/10/22 04:26:40 pm	4.02	45454	1.41			1.0000	N/A
Replicates	45676.2	46002.6	45603.1	44532.8								
480-198548-M-3-D MSD				UNK	06/10/22 04:27:58 pm	3.85	43522	1.26			1.0000	N/A
Replicates	43641.3	44017.9	43685.9	42744.4								
620-4969-J-1-A				UNK	06/10/22 04:29:16 pm	-0.01	9	9.24			1.0000	N/A
Replicates	16.4	-6.6	11.9	13.9								
620-4969-J-2-A				UNK	06/10/22 04:30:34 pm	-0.01	22	3.68			1.0000	N/A
Replicates	19.6	25.7	18.2	24.7								
620-4969-J-3-A				UNK	06/10/22 04:31:53 pm	-0.01	15	17.20			1.0000	N/A
Replicates	0.8	29.0	33.0	-2.5								
620-4969-J-4-A				UNK	06/10/22 04:33:11 pm	-0.01	-13	6.73			1.0000	N/A
Replicates	-10.7	-16.0	-2.2	-24.0								
CCV				CCV	06/10/22 04:34:31 pm	1.83	20763	1.51			1.0000	91.57
Replicates	20862.7	21026.6	20854.6	20310.1								
CCB				CCB	06/10/22 04:35:49 pm	-0.01	22	19.04			1.0000	N/A
Replicates	37.6	22.0	32.5	-5.5								
620-4969-J-5-A				UNK	06/10/22 04:37:08 pm	-0.01	13	14.11			1.0000	N/A
Replicates	13.8	19.9	-8.9	26.9								
620-4969-J-6-A				UNK	06/10/22 04:38:27 pm	-0.01	33	14.06			1.0000	N/A
Replicates	39.6	45.7	16.7	31.7								
620-4969-T-7-A				UNK	06/10/22 04:39:44 pm	-0.01	17	27.60			1.0000	N/A
Replicates	43.9	40.4	-13.6	-0.9								
620-4969-J-8-A				UNK	06/10/22 04:41:01 pm	-0.01	43	23.99			1.0000	N/A
Replicates	67.3	32.5	47.3	23.3								
480-198720-D-1-B				UNK	06/10/22 04:42:19 pm	0.00	90	59.48			1.0000	N/A
Replicates	106.5	103.3	85.6	64.1								
480-198720-D-2-B				UNK	06/10/22 04:43:37 pm	-0.01	1	14.94			1.0000	N/A
Replicates	-5.6	7.8	-20.5	22.0								
480-198720-D-3-B				UNK	06/10/22 04:44:55 pm	-0.01	49	31.45			1.0000	N/A
Replicates	76.6	58.7	35.9	24.9								
480-198720-D-4-B				UNK	06/10/22 04:46:13 pm	-0.01	54	36.61			1.0000	N/A
Replicates	83.9	28.5	64.5	38.0								
240-167698-E-2-A				UNK	06/10/22 04:47:31 pm	-0.01	36	19.53			1.0000	N/A
Replicates	23.9	27.8	61.0	32.0								

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual Flags	DF	% Recovery
MB 480-629608/1-A		UNK	06/10/22 04:48:49 pm	-0.01	3	14.27		1.0000	N/A
Replicates	-10.0	20.1	16.1	-12.4					
CCV		CCV	06/10/22 04:50:09 pm	1.82	20617	1.40		1.0000	90.93
Replicates	20694.2	20863.7	20708.9	20201.4					
CCB		CCB	06/10/22 04:51:27 pm	-0.01	-4	5.24		1.0000	N/A
Replicates	-4.2	-4.3	4.2	-12.0					
LCS 480-629608/2-A		UNK	06/10/22 04:52:45 pm	4.03	45555	1.44		1.0000	N/A
Replicates	45832.4	46089.8	45690.8	44607.5					
480-198736-C-1-B		UNK	06/10/22 04:54:04 pm	-0.01	46	39.23		1.0000	N/A
Replicates	88.8	45.8	26.8	23.8					
480-198736-C-1-Bsd@5		UNK	06/10/22 04:55:22 pm	-0.01	39	33.54		1.0000	N/A
Replicates	79.4	33.4	14.9	27.7					
480-198736-C-1-C MS		UNK	06/10/22 04:56:41 pm	4.04	45689	1.48		1.0000	N/A
Replicates	45949.0	46241.8	45857.5	44709.5					
480-198736-C-1-D MSD		UNK	06/10/22 04:57:59 pm	3.99	45045	1.32		1.0000	N/A
Replicates	45241.2	45516.3	45241.8	44180.3					
620-4938-J-1-C		UNK	06/10/22 04:59:16 pm	-0.01	-3	13.48		1.0000	N/A
Replicates	5.3	-27.1	11.4	-1.4					
620-4938-J-2-C		UNK	06/10/22 05:00:34 pm	-0.01	21	25.15		1.0000	N/A
Replicates	39.2	38.8	21.3	-15.3					
620-4938-J-3-C		UNK	06/10/22 05:01:52 pm	-0.01	9	22.11		1.0000	N/A
Replicates	-23.4	2.7	34.4	21.7					
620-4903-J-1-C		UNK	06/10/22 05:03:10 pm	-0.01	-1	12.76		1.0000	N/A
Replicates	-0.8	9.4	10.4	-23.6					
620-4903-J-2-C		UNK	06/10/22 05:04:28 pm	-0.01	23	5.47		1.0000	N/A
Replicates	30.6	19.6	22.8	18.6					
CCV		CCV	06/10/22 05:05:48 pm	2.16	24435	1.32		1.0000	107.86
Replicates	24498.5	24713.5	24553.0	23975.0					
CCB		CCB	06/10/22 05:07:05 pm	-0.01	0	18.97		1.0000	N/A
Replicates	28.5	-3.0	-28.0	3.5					
620-4903-J-3-C		UNK	06/10/22 05:08:24 pm	-0.01	19	28.38		1.0000	N/A
Replicates	35.3	48.5	11.0	-18.3					
620-4903-J-4-C		UNK	06/10/22 05:09:42 pm	-0.01	12	15.71		1.0000	N/A
Replicates	13.8	3.0	-4.0	35.8					
620-4903-J-5-C		UNK	06/10/22 05:11:00 pm	-0.01	16	12.68		1.0000	N/A
Replicates	15.1	32.0	-1.0	17.8					
620-4903-J-6-C		UNK	06/10/22 05:12:19 pm	-0.01	35	17.11		1.0000	N/A
Replicates	23.3	38.8	54.0	22.0					

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
LB 480-629421/1-F		UNK	06/10/22 05:13:38 pm	-0.01	-15	10.68			1.0000	N/A
Replicates	-10.8	-36.2	-3.2	-8.7						
MB 480-629609/2-A		UNK	06/10/22 05:14:57 pm	-0.01	10	22.36			1.0000	N/A
Replicates	9.4	-2.1	-12.3	45.4						
LCS 480-629609/3-A		UNK	06/10/22 05:16:14 pm	3.66	41367	1.43			1.0000	N/A
Replicates	41603.0	41831.6	41526.3	40506.8						
480-198691-A-3-K		UNK	06/10/22 05:17:32 pm	-0.01	47	27.74			1.0000	N/A
Replicates	66.9	54.1	17.3	48.8						
480-198745-A-1-H		UNK	06/10/22 05:18:50 pm	0.00	178	36.22			1.0000	N/A
Replicates	178.0	176.4	203.2	154.2						
480-198762-A-1-I		UNK	06/10/22 05:20:07 pm	-0.01	8	18.00			1.0000	N/A
Replicates	13.4	17.6	23.6	-22.1						
CCV		CCV	06/10/22 05:21:27 pm	2.15	24325	1.31			1.0000	107.38
Replicates	24384.4	24611.8	24430.5	23875.0						
CCB		CCB	06/10/22 05:22:45 pm	-0.01	-6	20.15			1.0000	N/A
Replicates	0.3	8.9	-44.4	10.9						
480-198762-A-2-H		UNK	06/10/22 05:24:03 pm	-0.01	39	27.21			1.0000	N/A
Replicates	39.0	14.1	33.1	69.1						
480-198762-A-2-Hsd@5		UNK	06/10/22 05:25:21 pm	-0.01	60	31.27			1.0000	N/A
Replicates	38.5	72.0	80.2	47.7						
480-198762-A-2-I MS		UNK	06/10/22 05:26:39 pm	3.83	43257	1.26			1.0000	N/A
Replicates	43476.3	43691.4	43394.4	42466.2						
480-198762-A-2-J MSD		UNK	06/10/22 05:27:57 pm	3.82	43137	1.21			1.0000	N/A
Replicates	43300.4	43560.9	43308.7	42376.4						
480-198762-A-3-G		UNK	06/10/22 05:29:16 pm	-0.01	28	13.68			1.0000	N/A
Replicates	45.5	29.0	21.0	15.8						
LB2 480-629407/1-B		UNK	06/10/22 05:30:34 pm	-0.01	22	25.87			1.0000	N/A
Replicates	30.4	33.6	-17.1	39.6						
MB 480-629638/2-A		UNK	06/10/22 05:31:53 pm	-0.01	1	7.41			1.0000	N/A
Replicates	8.6	-7.4	9.6	-5.4						
LCS 480-629638/3-A		UNK	06/10/22 05:33:12 pm	3.88	43877	1.17			1.0000	N/A
Replicates	44016.9	44289.7	44074.4	43127.2						
LCSD 480-629638/4-A		UNK	06/10/22 05:34:30 pm	3.82	43218	1.29			1.0000	N/A
Replicates	43406.0	43683.5	43370.3	42413.8						
480-198502-A-1-G		UNK	06/10/22 05:35:48 pm	-0.01	2	17.48			1.0000	N/A
Replicates	22.6	8.4	-27.6	2.9						
CCV		CCV	06/10/22 05:37:07 pm	2.11	23884	1.44			1.0000	105.42
Replicates	23978.3	24173.8	23995.0	23387.5						

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual Flags	DF	% Recovery
CCB	CCB	06/10/22 05:38:25 pm	-0.01	3	3.50		1.0000	N/A
Replicates	7.6	4.7	-2.3	3.7				
480-198595-A-1-K	UNK	06/10/22 05:39:43 pm	-0.01	-12	11.88		1.0000	N/A
Replicates	-1.7	-27.7	4.3	-24.4				
480-198595-A-2-Gsd@5	UNK	06/10/22 05:41:01 pm	0.00	168	46.51		1.0000	N/A
Replicates	179.1	191.5	145.8	155.3				
480-198595-A-2-G	UNK	06/10/22 05:42:19 pm	0.00	89	80.75		1.0000	N/A
Replicates	100.1	106.4	101.4	48.9				
LB 480-629410/1-B	UNK	06/10/22 05:43:37 pm	-0.01	-2	23.11		1.0000	N/A
Replicates	28.9	-30.2	15.5	-23.0				
MB 480-629639/2-A	UNK	06/10/22 05:44:55 pm	-0.01	-22	7.99		1.0000	N/A
Replicates	-18.8	-7.8	-26.3	-35.0				
LCS 480-629639/3-A	UNK	06/10/22 05:46:13 pm	3.94	44474	1.39		1.0000	N/A
Replicates	44646.2	44994.8	44672.8	43581.8				
LCSD 480-629639/4-A	UNK	06/10/22 05:47:32 pm	3.96	44747	1.31		1.0000	N/A
Replicates	44881.8	45235.7	44972.2	43898.2				
480-198509-A-2-H	UNK	06/10/22 05:48:51 pm	-0.01	13	7.94		1.0000	N/A
Replicates	16.1	23.2	8.7	3.2				
480-198521-A-6-C	UNK	06/10/22 05:50:09 pm	-0.01	34	19.05		1.0000	N/A
Replicates	16.7	42.4	53.4	23.7				
480-198568-A-13-F	UNK	06/10/22 05:51:28 pm	-0.01	27	16.51		1.0000	N/A
Replicates	38.4	17.1	9.8	42.1				
CCV	CCV	06/10/22 05:52:48 pm	2.15	24305	1.46		1.0000	107.29
Replicates	24473.8	24577.9	24378.7	23791.4				
CCB	CCB	06/10/22 05:54:06 pm	-0.01	-1	20.78		1.0000	N/A
Replicates	-0.2	22.2	-36.6	11.9				
480-198594-A-1-Jsd@5	UNK	06/10/22 05:55:24 pm	-0.01	1	17.26		1.0000	N/A
Replicates	26.7	7.7	-9.8	-21.5				
480-198594-A-1-J	UNK	06/10/22 05:56:42 pm	-0.01	49	19.88		1.0000	N/A
Replicates	43.3	30.9	60.4	61.4				
CCV	CCV	06/10/22 05:58:02 pm	2.11	23857	1.37		1.0000	105.30
Replicates	23947.5	24153.2	23935.0	23390.7				
CCB	CCB	06/10/22 05:59:20 pm	-0.01	12	16.54		1.0000	N/A
Replicates	6.5	38.5	4.8	-3.0				
CCVL	CRDL	06/10/22 06:00:40 pm	0.15	1804	1.52		1.0000	74.60
Replicates	1810.5	1825.8	1813.3	1767.1				

Report Generated By Teledyne Leeman QuickTrace

Analyst: BufHG5

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\L20220613B.wszf

Creation Date: 6/13/2022 2:10:31 PM

Comment:

Results

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
Calibration Blank		STD	06/13/22 02:12:02 pm	0.00	25	63.37	-10.77		1.0000	N/A
Replicates	4.8	38.1	19.9	36.6						
Standard #1 (0.1 ug/L)		STD	06/13/22 02:13:20 pm	0.10	1238	1.56	-2.27		1.0000	N/A
Replicates	1247.8	1259.2	1229.0	1215.7						
Standard #2 (0.5 ug/L)		STD	06/13/22 02:14:39 pm	0.50	6179	1.66	39.65		1.0000	N/A
Replicates	6237.0	6262.4	6182.2	6032.9						
Standard #3 (2.0 ug/L)		STD	06/13/22 02:15:58 pm	2.00	24420	1.90	171.25		1.0000	N/A
Replicates	24670.9	24806.7	24438.5	23764.5						
Standard #4 (10. ug/L)		STD	06/13/22 02:17:17 pm	10.00	116172	1.77	377.95		1.0000	N/A
Replicates	117338.9	117808.9	116298.1	113241.4						
Standard #5 (20. ug/L)		STD	06/13/22 02:18:36 pm	20.00	218336	1.61	-483.99		1.0000	N/A
Replicates	220294.5	221143.6	218577.6	213329.4						

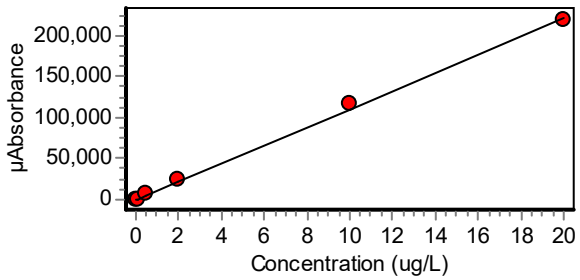
Calibration

Equation: Abs = 11180.103x + 145.285

R2: 0.99871

SEE: 3571.1370

Flags:



ICV		ICV	06/13/22 02:19:56 pm	3.05	34267	1.88			1.0000	101.73
Replicates	34626.7	34786.0	34305.5	33351.0						
ICB		ICB	06/13/22 02:21:13 pm	-0.01	20	12.55			1.0000	N/A
Replicates	14.4	10.2	11.9	43.4						
ICVL		CRDL	06/13/22 02:22:33 pm	0.19	2280	2.15			1.0000	95.48
Replicates	2313.5	2315.5	2275.0	2217.5						
CCV		CCV	06/13/22 02:23:53 pm	2.09	23530	1.68			1.0000	104.58
Replicates	23698.5	23880.6	23566.6	22974.4						
CCB		CCB	06/13/22 02:25:12 pm	-0.01	36	29.08			1.0000	N/A
Replicates	27.6	82.7	24.7	10.9						
MB 480-629751/1-A		UNK	06/13/22 02:26:29 pm	-0.01	28	18.93			1.0000	N/A
Replicates	14.8	61.2	17.9	17.7						
LCS 480-629751/2-A		UNK	06/13/22 02:27:47 pm	4.12	46212	1.68			1.0000	N/A
Replicates	46627.6	46817.9	46306.4	45095.7						

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-198743-C-1-B		UNK	06/13/22 02:29:04 pm	-0.01	50	19.55			1.0000	N/A
Replicates	69.9	59.3	27.3	43.3						
480-198743-C-5-B		UNK	06/13/22 02:30:22 pm	-0.01	38	14.38			1.0000	N/A
Replicates	35.8	17.5	48.5	51.3						
480-198743-C-6-B		UNK	06/13/22 02:31:40 pm	0.02	396	11.30			1.0000	N/A
Replicates	419.3	420.8	368.6	373.8						
480-198813-D-1-B		UNK	06/13/22 02:32:58 pm	-0.01	-2	8.29			1.0000	N/A
Replicates	9.2	6.9	-5.6	-17.1						
480-198813-D-1-Bsd@5		UNK	06/13/22 02:34:16 pm	-0.01	37	23.19			1.0000	N/A
Replicates	51.5	1.9	34.4	58.4						
480-198813-D-1-C MS		UNK	06/13/22 02:35:35 pm	4.15	46554	1.51			1.0000	N/A
Replicates	46908.5	47118.4	46643.1	45545.6						
480-198813-D-1-D MSD		UNK	06/13/22 02:36:53 pm	4.17	46755	1.63			1.0000	N/A
Replicates	47119.3	47382.7	46852.2	45666.4						
480-198813-D-2-B		UNK	06/13/22 02:38:12 pm	-0.01	80	11.79			1.0000	N/A
Replicates	91.2	77.6	75.1	75.1						
CCV		CCV	06/13/22 02:39:31 pm	2.09	23557	1.79			1.0000	104.70
Replicates	23745.4	23898.3	23634.6	22949.6						
CCB		CCB	06/13/22 02:40:49 pm	-0.01	39	13.62			1.0000	N/A
Replicates	23.3	47.7	30.2	54.2						
480-198813-D-3-D		UNK	06/13/22 02:42:08 pm	-0.01	24	15.58			1.0000	N/A
Replicates	47.6	29.9	9.4	7.4						
480-198813-D-4-B		UNK	06/13/22 02:43:27 pm	-0.01	26	2.54			1.0000	N/A
Replicates	25.2	26.3	22.8	30.1						
480-198813-D-5-B		UNK	06/13/22 02:44:44 pm	-0.01	18	9.97			1.0000	N/A
Replicates	0.2	17.4	26.6	27.6						
480-198813-D-6-B		UNK	06/13/22 02:46:01 pm	-0.01	27	17.07			1.0000	N/A
Replicates	47.5	39.0	2.3	20.8						
480-198813-D-7-B		UNK	06/13/22 02:47:19 pm	-0.01	16	20.85			1.0000	N/A
Replicates	12.9	51.8	-13.7	12.3						
480-198813-D-8-B		UNK	06/13/22 02:48:37 pm	0.02	406	10.73			1.0000	N/A
Replicates	439.0	410.8	402.3	371.1						
480-198813-D-9-B		UNK	06/13/22 02:49:55 pm	-0.01	-2	10.88			1.0000	N/A
Replicates	-17.7	5.0	-13.3	16.7						
480-198813-R-10-B		UNK	06/13/22 02:51:13 pm	-0.01	61	28.31			1.0000	N/A
Replicates	72.8	59.4	83.1	28.1						
480-198815-D-1-B		UNK	06/13/22 02:52:31 pm	-0.01	48	8.88			1.0000	N/A
Replicates	39.2	55.3	41.1	54.8						

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual Flags	DF	% Recovery
480-198815-D-2-B		UNK	06/13/22 02:53:49 pm	-0.01	20	17.49		1.0000	N/A
Replicates	14.5	46.3	-6.4	24.8					
CCV		CCV	06/13/22 02:55:09 pm	2.08	23435	1.68		1.0000	104.16
Replicates	23610.8	23753.1	23509.6	22867.1					
CCB		CCB	06/13/22 02:56:27 pm	-0.01	32	11.93		1.0000	N/A
Replicates	12.4	33.9	37.6	43.4					
480-198825-C-1-B		UNK	06/13/22 02:57:45 pm	0.00	108	35.73		1.0000	N/A
Replicates	96.3	120.0	118.5	95.8					
480-198825-C-2-D		UNK	06/13/22 02:59:04 pm	-0.01	12	5.94		1.0000	N/A
Replicates	10.9	10.7	4.0	23.0					
480-198825-C-3-B		UNK	06/13/22 03:00:23 pm	-0.01	61	9.07		1.0000	N/A
Replicates	71.5	62.6	54.4	56.9					
480-198825-C-5-B		UNK	06/13/22 03:01:42 pm	0.00	96	73.97		1.0000	N/A
Replicates	137.9	78.0	54.5	112.0					
480-198825-C-7-B		UNK	06/13/22 03:03:00 pm	-0.01	9	24.99		1.0000	N/A
Replicates	28.2	30.2	19.9	-41.3					
MB 480-629752/1-A		UNK	06/13/22 03:04:18 pm	-0.01	30	20.82		1.0000	N/A
Replicates	5.8	46.8	54.6	14.3					
LCS 480-629752/2-A		UNK	06/13/22 03:05:35 pm	3.98	44616	1.51		1.0000	N/A
Replicates	44925.2	45166.3	44725.8	43647.3					
480-198825-C-8-B		UNK	06/13/22 03:06:53 pm	-0.01	34	17.55		1.0000	N/A
Replicates	46.5	21.7	13.0	54.0					
480-198825-C-11-B		UNK	06/13/22 03:08:11 pm	0.00	191	44.67		1.0000	N/A
Replicates	180.8	169.1	215.9	197.9					
480-198894-C-1-A		UNK	06/13/22 03:09:29 pm	0.00	112	56.56		1.0000	N/A
Replicates	110.2	122.9	85.9	128.4					
CCV		CCV	06/13/22 03:10:49 pm	2.06	23148	1.73		1.0000	102.88
Replicates	23330.7	23496.3	23182.3	22584.3					
CCB		CCB	06/13/22 03:12:07 pm	-0.01	47	13.39		1.0000	N/A
Replicates	46.2	59.9	29.6	53.9					
480-198894-C-2-A		UNK	06/13/22 03:13:25 pm	-0.01	-2	10.04		1.0000	N/A
Replicates	-10.0	19.4	-3.8	-13.3					
480-198943-C-5-A		UNK	06/13/22 03:14:43 pm	-0.01	44	20.83		1.0000	N/A
Replicates	70.6	19.6	38.1	46.4					
480-198944-C-1-A		UNK	06/13/22 03:16:01 pm	-0.01	15	12.64		1.0000	N/A
Replicates	-8.9	20.8	20.8	28.1					
480-198827-A-14-B		UNK	06/13/22 03:17:20 pm	0.00	113	34.54		1.0000	N/A
Replicates	115.3	97.5	116.5	123.5					

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual Flags	DF	% Recovery
480-198840-C-1-C		UNK	06/13/22 03:18:39 pm	-0.01	7	14.95		1.0000	N/A
Replicates	9.8	-3.5	34.5	-13.3					
480-198840-C-1-Csd@5		UNK	06/13/22 03:19:58 pm	-0.01	39	11.32		1.0000	N/A
Replicates	49.2	45.3	40.0	22.0					
480-198840-C-1-D MS		UNK	06/13/22 03:21:15 pm	4.13	46361	1.34		1.0000	N/A
Replicates	46665.1	46851.0	46464.0	45465.3					
480-198840-C-1-E MSD		UNK	06/13/22 03:22:33 pm	4.06	45543	1.44		1.0000	N/A
Replicates	45792.3	46087.5	45698.3	44592.0					
480-198840-C-2-E		UNK	06/13/22 03:23:51 pm	-0.01	20	3.58		1.0000	N/A
Replicates	18.3	25.8	15.6	22.1					
480-198840-C-3-E		UNK	06/13/22 03:25:08 pm	-0.01	11	8.78		1.0000	N/A
Replicates	17.5	-6.1	19.9	12.6					
CCV		CCV	06/13/22 03:26:28 pm	2.05	23082	1.58		1.0000	102.58
Replicates	23261.7	23357.1	23158.4	22550.6					
CCB		CCB	06/13/22 03:27:46 pm	-0.01	33	21.70		1.0000	N/A
Replicates	63.6	29.3	4.1	34.3					
480-198840-C-4-C		UNK	06/13/22 03:29:04 pm	0.07	898	3.28		1.0000	N/A
Replicates	887.2	934.6	880.3	890.3					
480-198840-C-5-C		UNK	06/13/22 03:30:22 pm	0.00	107	100.99		1.0000	N/A
Replicates	80.5	164.2	94.4	89.9					
480-198840-C-6-C		UNK	06/13/22 03:31:40 pm	-0.01	9	11.02		1.0000	N/A
Replicates	-0.6	31.3	1.3	3.8					
480-198840-C-7-C		UNK	06/13/22 03:32:58 pm	0.00	102	63.90		1.0000	N/A
Replicates	113.5	106.6	62.9	126.1					
480-198840-C-8-C		UNK	06/13/22 03:34:17 pm	-0.01	41	11.68		1.0000	N/A
Replicates	27.4	45.3	37.3	56.0					
480-198840-C-9-C		UNK	06/13/22 03:35:35 pm	-0.01	11	6.61		1.0000	N/A
Replicates	10.4	4.7	3.9	23.2					
480-198840-C-10-C		UNK	06/13/22 03:36:54 pm	-0.01	18	17.82		1.0000	N/A
Replicates	-2.0	3.4	21.4	48.4					
480-198866-D-1-A		UNK	06/13/22 03:38:13 pm	-0.01	6	9.95		1.0000	N/A
Replicates	22.4	1.4	10.9	-10.1					
480-198866-D-2-A		UNK	06/13/22 03:39:31 pm	-0.01	59	32.58		1.0000	N/A
Replicates	41.2	60.2	98.4	36.9					
480-198866-D-3-A		UNK	06/13/22 03:40:49 pm	-0.01	44	23.99		1.0000	N/A
Replicates	57.4	8.0	53.3	58.3					
CCV		CCV	06/13/22 03:42:09 pm	2.06	23180	1.64		1.0000	103.02
Replicates	23318.7	23485.5	23288.3	22626.5					

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
CCB				CCB	06/13/22 03:43:26 pm	-0.01	46	4.04			1.0000	N/A
Replicates	49.6	42.3	42.0	48.5								
MB 480-629753/1-A				UNK	06/13/22 03:44:44 pm	-0.01	9	12.54			1.0000	N/A
Replicates	23.4	11.9	15.6	-15.9								
LCS 480-629753/2-A				UNK	06/13/22 03:46:02 pm	4.05	45384	1.49			1.0000	N/A
Replicates	45675.5	45935.9	45514.4	44408.2								
480-198860-D-1-A				UNK	06/13/22 03:47:20 pm	-0.01	4	11.53			1.0000	N/A
Replicates	-18.1	3.9	7.4	21.4								
480-198860-D-1-Asd@5				UNK	06/13/22 03:48:38 pm	-0.01	38	6.98			1.0000	N/A
Replicates	36.3	41.6	45.1	27.9								
480-198860-D-1-B MS				UNK	06/13/22 03:49:56 pm	3.97	44509	1.03			1.0000	N/A
Replicates	44626.3	44878.9	44687.9	43842.9								
480-198860-D-1-C MSD				UNK	06/13/22 03:51:15 pm	4.00	44921	1.24			1.0000	N/A
Replicates	45117.7	45383.5	45072.8	44111.5								
480-198860-D-2-A				UNK	06/13/22 03:52:33 pm	-0.01	31	28.07			1.0000	N/A
Replicates	21.4	49.5	-9.2	63.0								
480-198860-D-3-A				UNK	06/13/22 03:53:52 pm	-0.01	26	18.96			1.0000	N/A
Replicates	30.9	4.4	55.4	12.4								
480-198860-D-4-A				UNK	06/13/22 03:55:10 pm	-0.01	39	23.93			1.0000	N/A
Replicates	46.3	67.1	34.9	5.9								
480-198860-D-5-A				UNK	06/13/22 03:56:29 pm	-0.01	33	20.61			1.0000	N/A
Replicates	22.6	67.1	24.1	16.6								
CCV				CCV	06/13/22 03:57:49 pm	2.04	22918	1.58			1.0000	101.84
Replicates	23098.8	23218.1	22949.1	22405.6								
CCB				CCB	06/13/22 03:59:07 pm	-0.01	28	15.31			1.0000	N/A
Replicates	12.7	46.3	13.3	41.3								
CCVL				CRDL	06/13/22 04:00:27 pm	0.18	2189	2.50			1.0000	91.38
Replicates	2165.0	2236.5	2224.8	2128.3								
480-198860-D-6-A				UNK	06/13/22 04:01:45 pm	-0.01	-7	16.36			1.0000	N/A
Replicates	21.8	-3.7	-6.7	-39.0								
480-198863-D-1-A				UNK	06/13/22 04:03:03 pm	-0.01	6	12.71			1.0000	N/A
Replicates	20.1	-19.8	13.5	10.5								
480-198863-D-2-A				UNK	06/13/22 04:04:22 pm	-0.01	12	10.25			1.0000	N/A
Replicates	13.0	-1.5	30.3	5.3								
480-198882-C-1-A				UNK	06/13/22 04:05:40 pm	0.00	157	120.07			1.0000	N/A
Replicates	161.9	137.1	168.6	158.9								
480-198882-C-5-A				UNK	06/13/22 04:06:58 pm	-0.01	48	19.41			1.0000	N/A
Replicates	69.6	31.3	58.6	33.6								

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-198882-C-7-A				UNK	06/13/22 04:08:16 pm	0.00	91	20.43			1.0000	N/A
Replicates	105.3	78.3	89.3	90.8								
480-198882-C-8-A				UNK	06/13/22 04:09:35 pm	-0.01	87	30.58			1.0000	N/A
Replicates	109.4	93.5	71.0	74.8								
480-198882-C-9-A				UNK	06/13/22 04:10:53 pm	-0.01	33	22.92			1.0000	N/A
Replicates	22.7	1.6	54.8	53.3								
480-198882-C-10-A				UNK	06/13/22 04:12:11 pm	0.00	112	11.86			1.0000	N/A
Replicates	117.6	109.4	109.2	112.4								
480-198890-C-1-A				UNK	06/13/22 04:13:30 pm	0.02	393	5.93			1.0000	N/A
Replicates	411.9	396.6	378.6	384.6								
CCV				CCV	06/13/22 04:14:50 pm	2.05	23044	1.64			1.0000	102.41
Replicates	23142.3	23377.3	23154.8	22503.3								
CCB				CCB	06/13/22 04:16:07 pm	-0.01	34	19.79			1.0000	N/A
Replicates	65.5	17.3	20.3	31.0								
480-198890-C-2-A				UNK	06/13/22 04:17:26 pm	-0.01	5	18.36			1.0000	N/A
Replicates	17.3	33.9	-23.4	-9.6								
480-198890-C-3-A				UNK	06/13/22 04:18:45 pm	-0.01	25	7.86			1.0000	N/A
Replicates	16.7	36.1	17.6	29.6								
480-198890-C-4-A				UNK	06/13/22 04:20:03 pm	-0.01	-13	11.38			1.0000	N/A
Replicates	-16.6	-36.3	-1.1	3.4								
480-198890-C-5-A				UNK	06/13/22 04:21:22 pm	-0.01	3	19.45			1.0000	N/A
Replicates	16.6	19.3	15.6	-37.9								
480-198890-C-6-A				UNK	06/13/22 04:22:40 pm	-0.01	4	6.80			1.0000	N/A
Replicates	13.2	1.7	-8.5	9.5								
MB 480-629759/1-A				UNK	06/13/22 04:23:58 pm	-0.01	-11	13.14			1.0000	N/A
Replicates	18.8	-28.6	-16.6	-16.4								
LCS 480-629759/2-A				UNK	06/13/22 04:25:16 pm	3.99	44783	1.10			1.0000	N/A
Replicates	44868.3	45210.0	44973.0	44081.7								
480-198880-A-14-A				UNK	06/13/22 04:26:34 pm	0.00	106	45.22			1.0000	N/A
Replicates	118.3	105.7	119.2	81.2								
480-198719-E-1-B				UNK	06/13/22 04:27:53 pm	-0.01	63	29.98			1.0000	N/A
Replicates	69.9	64.7	87.7	28.7								
480-198719-E-1-Bsd@5				UNK	06/13/22 04:29:11 pm	-0.01	52	27.64			1.0000	N/A
Replicates	89.7	33.6	48.6	37.6								
CCV				CCV	06/13/22 04:30:31 pm	2.14	24030	1.42			1.0000	106.82
Replicates	24127.5	24303.5	24154.3	23535.3								
CCB				CCB	06/13/22 04:31:49 pm	-0.01	27	10.03			1.0000	N/A
Replicates	24.3	35.2	36.9	11.2								

Sample Name			Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-198719-E-1-C MS			UNK	06/13/22 04:33:07 pm	4.12	46245	1.37			1.0000	N/A
Replicates	46489.4	46756.6	46414.6	45320.6							
480-198719-E-1-D MSD			UNK	06/13/22 04:34:26 pm	4.13	46354	1.20			1.0000	N/A
Replicates	46483.9	46810.3	46577.3	45544.8							
480-198723-D-1-B			UNK	06/13/22 04:35:44 pm	-0.01	-2	12.27			1.0000	N/A
Replicates	-11.6	24.7	-13.1	-9.8							
480-198816-I-1-D			UNK	06/13/22 04:37:03 pm	0.00	109	88.07			1.0000	N/A
Replicates	96.4	71.4	143.2	125.9							
480-198816-I-2-D			UNK	06/13/22 04:38:22 pm	-0.01	50	10.52			1.0000	N/A
Replicates	42.6	63.7	52.7	42.9							
480-198816-I-3-D			UNK	06/13/22 04:39:40 pm	-0.01	2	27.20			1.0000	N/A
Replicates	-10.8	49.6	-42.4	13.4							
480-198816-I-4-D			UNK	06/13/22 04:40:59 pm	-0.01	2	11.92			1.0000	N/A
Replicates	20.2	-0.1	7.6	-20.6							
480-198816-I-5-D			UNK	06/13/22 04:42:17 pm	-0.01	-5	14.08			1.0000	N/A
Replicates	24.0	-21.4	-2.9	-20.1							
480-198764-N-1-A			UNK	06/13/22 04:43:36 pm	-0.01	20	8.77			1.0000	N/A
Replicates	11.8	34.8	21.1	11.3							
480-198764-N-2-E			UNK	06/13/22 04:44:54 pm	-0.01	55	16.64			1.0000	N/A
Replicates	69.0	35.2	52.9	63.9							
CCV			CCV	06/13/22 04:46:14 pm	2.11	23709	1.26			1.0000	105.38
Replicates	23744.4	23956.3	23853.8	23281.0							
CCB			CCB	06/13/22 04:47:32 pm	-0.01	48	9.82			1.0000	N/A
Replicates	53.8	38.2	41.7	58.2							
480-198764-N-3-A			UNK	06/13/22 04:48:50 pm	0.00	129	150.76			1.0000	N/A
Replicates	127.5	164.4	111.4	111.9							
480-198764-N-4-A			UNK	06/13/22 04:50:09 pm	0.00	123	85.87			1.0000	N/A
Replicates	95.5	124.9	141.2	129.2							
480-198764-N-5-A			UNK	06/13/22 04:51:27 pm	-0.01	78	25.27			1.0000	N/A
Replicates	83.0	68.2	100.2	62.5							
480-198897-N-1-A			UNK	06/13/22 04:52:46 pm	-0.01	24	12.05			1.0000	N/A
Replicates	33.4	2.6	25.9	33.6							
480-198899-G-1-A			UNK	06/13/22 04:54:05 pm	-0.01	69	17.56			1.0000	N/A
Replicates	80.8	67.9	50.4	76.4							
480-198899-G-2-A			UNK	06/13/22 04:55:24 pm	0.00	167	82.97			1.0000	N/A
Replicates	159.5	187.2	146.0	176.0							
480-198899-G-3-A			UNK	06/13/22 04:56:42 pm	0.00	140	230.52			1.0000	N/A
Replicates	140.0	151.5	145.5	122.3							

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-198787-A-10-A					UNK	06/13/22 04:58:01 pm	4.65	52126	1.40			1.0000	N/A
	Replicates	52379.4	52733.3	52320.5	51071.5								
480-198787-A-11-A					UNK	06/13/22 04:59:19 pm	18.21	203698	1.18			1.0000	N/A
	Replicates	204557.3	205756.6	204243.8	200233.8								
480-198787-A-12-A					UNK	06/13/22 05:00:38 pm	-0.01	49	19.78			1.0000	N/A
	Replicates	65.6	47.5	59.3	22.3								
CCV					CCV	06/13/22 05:01:57 pm	2.13	23925	1.37			1.0000	106.35
	Replicates	24014.5	24191.9	24041.6	23451.9								
CCB					CCB	06/13/22 05:03:15 pm	-0.01	26	11.40			1.0000	N/A
	Replicates	28.0	6.9	27.9	39.7								
MB 480-629810/1-A					UNK	06/13/22 05:04:34 pm	-0.01	41	17.46			1.0000	N/A
	Replicates	37.8	62.9	42.9	18.4								
480-629810/2-A					UNK	06/13/22 05:05:52 pm	3.87	43384	1.25			1.0000	N/A
	Replicates	43534.9	43832.0	43569.2	42601.2								
LCSD 480-629810/3-A					UNK	06/13/22 05:07:11 pm	3.97	44523	1.19			1.0000	N/A
	Replicates	44637.8	44969.6	44724.6	43758.8								
480-198466-B-1-A					UNK	06/13/22 05:08:29 pm	0.00	129	62.75			1.0000	N/A
	Replicates	124.8	141.9	130.9	117.4								
620-5017-J-1-A					UNK	06/13/22 05:09:48 pm	-0.01	-4	7.71			1.0000	N/A
	Replicates	-5.5	-9.4	-14.4	12.1								
620-5017-J-2-A					UNK	06/13/22 05:11:06 pm	-0.01	27	14.70			1.0000	N/A
	Replicates	45.6	10.1	15.3	38.6								
620-5017-J-3-A					UNK	06/13/22 05:12:25 pm	-0.01	33	20.52			1.0000	N/A
	Replicates	44.8	42.4	46.9	-1.1								
620-5017-J-4-A					UNK	06/13/22 05:13:44 pm	-0.01	-22	9.40			1.0000	N/A
	Replicates	-40.6	-25.1	-17.8	-2.8								
620-5017-J-5-A					UNK	06/13/22 05:15:03 pm	-0.01	23	8.10			1.0000	N/A
	Replicates	23.7	17.2	37.2	15.5								
620-5017-J-5-Asd@5					UNK	06/13/22 05:16:21 pm	-0.01	16	12.09			1.0000	N/A
	Replicates	31.2	7.6	-0.9	27.9								
CCV					CCV	06/13/22 05:17:41 pm	2.13	23963	1.71			1.0000	106.52
	Replicates	24110.7	24318.9	24045.2	23378.2								
CCB					CCB	06/13/22 05:18:59 pm	-0.01	22	15.59			1.0000	N/A
	Replicates	16.6	6.1	14.6	49.9								
CCVL					CRDL	06/13/22 05:20:19 pm	0.18	2140	1.33			1.0000	89.20
	Replicates	2160.6	2113.1	2164.1	2120.9								

Report Generated By Teledyne Leeman QuickTrace

Analyst: BufHG5

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\L20220614A.wszf

Creation Date: 6/14/2022 12:53:47 PM

Comment:

Results

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
Calibration Blank					STD	06/14/22 01:31:47 pm	0.00	-32	40.23	-15.05		1.0000	N/A
Replicates	-48.4	-18.8	-33.6	-25.6									
Standard #1 (0.1 ug/L)					STD	06/14/22 01:33:05 pm	0.10	1359	1.19	5.71		1.0000	N/A
Replicates	1368.3	1351.6	1374.9	1339.4									
Standard #2 (0.5 ug/L)					STD	06/14/22 01:34:23 pm	0.50	6486	1.49	51.10		1.0000	N/A
Replicates	6542.3	6557.9	6497.9	6345.6									
Standard #3 (2.0 ug/L)					STD	06/14/22 01:35:42 pm	2.00	24530	1.76	118.56		1.0000	N/A
Replicates	24729.6	24885.8	24599.6	23906.3									
Standard #4 (10. ug/L)					STD	06/14/22 01:37:01 pm	10.00	118460	1.67	277.90		1.0000	N/A
Replicates	119542.3	120021.9	118670.6	115606.4									
Standard #5 (20. ug/L)					STD	06/14/22 01:38:21 pm	20.00	225987	1.50	-381.63		1.0000	N/A
Replicates	227680.1	228763.3	226397.8	221107.8									

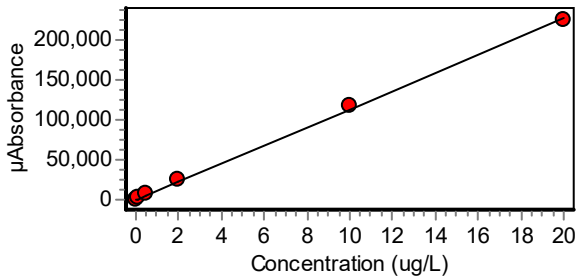
Calibration

Equation: Abs = 11511.945x + 141.637

R2: 0.99924

SEE: 2818.6480

Flags:



ICV					ICV	06/14/22 01:39:40 pm	3.21	37102	1.78		Q	1.0000	107.02
Replicates	37464.4	37628.9	37155.7	36158.2									
ICV					ICV	06/14/22 01:43:02 pm	3.12	35618	1.60			1.0000	104.07
Replicates	35833.2	36116.0	35725.7	34798.2									
ICB					ICB	06/14/22 01:44:20 pm	0.00	11	23.73			1.0000	N/A
Replicates	2.0	21.7	2.9	17.9									
ICVL					CRDL	06/14/22 01:45:40 pm	0.23	2579	1.67			1.0000	114.30
Replicates	2595.2	2612.4	2592.4	2514.6									
CCV					CCV	06/14/22 01:47:00 pm	2.18	24838	1.60			1.0000	108.90
Replicates	24981.0	25186.6	24918.1	24264.3									
CCB					CCB	06/14/22 01:48:18 pm	0.01	37	13.71			1.0000	N/A
Replicates	36.5	24.2	41.7	46.0									
MB 480-629787/1-C					UNK	06/14/22 01:51:44 pm	0.01	41	22.09			1.0000	N/A
Replicates	37.4	41.3	22.8	61.5									

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
LCS 480-629787/2-C					UNK	06/14/22 01:53:01 pm	4.25	48551	1.66			1.0000	N/A
Replicates	48908.9	49211.6	48699.1	47385.6									
480-198720-E-1-C					UNK	06/14/22 01:54:19 pm	0.01	35	24.53			1.0000	N/A
Replicates	22.8	57.0	22.5	36.0									
480-198720-E-2-E					UNK	06/14/22 01:55:37 pm	0.00	18	5.99			1.0000	N/A
Replicates	18.2	21.4	14.2	17.9									
480-198720-E-4-C					UNK	06/14/22 01:56:55 pm	0.01	36	42.14			1.0000	N/A
Replicates	31.0	74.0	4.5	36.0									
480-198720-E-4-Csd@5					UNK	06/14/22 01:58:13 pm	0.01	26	39.47			1.0000	N/A
Replicates	39.3	5.1	8.9	51.6									
480-198720-E-4-D MS					UNK	06/14/22 01:59:31 pm	4.09	46696	1.55			1.0000	N/A
Replicates	46994.7	47305.0	46831.0	45651.5									
480-198720-E-4-E MSD					UNK	06/14/22 02:00:49 pm	4.19	47867	1.46			1.0000	N/A
Replicates	48115.6	48462.7	48033.0	46858.2									
480-198813-R-2-C					UNK	06/14/22 02:02:08 pm	0.01	38	23.97			1.0000	N/A
Replicates	21.6	30.7	39.7	60.7									
480-198813-R-8-C					UNK	06/14/22 02:03:26 pm	0.01	42	27.68			1.0000	N/A
Replicates	46.9	51.8	12.5	58.5									
CCV					CCV	06/14/22 02:04:46 pm	2.14	24386	1.43			1.0000	106.92
Replicates	24490.5	24674.2	24501.0	23877.7									
CCB					CCB	06/14/22 02:06:04 pm	0.00	19	26.52			1.0000	N/A
Replicates	7.7	38.7	13.4	17.4									
480-198813-D-10-C					UNK	06/14/22 02:07:23 pm	0.00	20	14.61			1.0000	N/A
Replicates	19.5	10.2	22.9	28.2									
MB 480-629932/1-A					UNK	06/14/22 02:08:41 pm	0.01	55	20.88			1.0000	N/A
Replicates	59.6	45.8	77.3	35.8									
LCS 480-629932/2-A					UNK	06/14/22 02:09:59 pm	4.09	46622	1.44			1.0000	N/A
Replicates	46884.2	47182.1	46776.6	45645.1									
480-198952-B-1-C					UNK	06/14/22 02:11:16 pm	0.03	326	2.70			1.0000	N/A
Replicates	320.1	339.9	323.9	319.1									
480-198952-B-2-C					UNK	06/14/22 02:12:34 pm	0.04	467	2.24			1.0000	N/A
Replicates	452.7	479.3	470.6	465.1									
480-198952-B-3-C					UNK	06/14/22 02:13:52 pm	0.05	511	5.69			1.0000	N/A
Replicates	538.1	517.6	520.3	466.3									
480-198952-B-4-C					UNK	06/14/22 02:15:09 pm	0.36	4041	1.38			1.0000	N/A
Replicates	4063.6	4067.9	4076.2	3957.7									
480-198952-B-5-C					UNK	06/14/22 02:16:27 pm	0.01	54	13.25			1.0000	N/A
Replicates	65.5	53.5	57.2	38.5									

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-198952-B-6-C					UNK	06/14/22 02:17:46 pm	0.00	22	31.59			1.0000	N/A
	Replicates	46.8	15.1	12.1	12.6								
480-198952-B-7-C					UNK	06/14/22 02:19:04 pm	0.01	51	17.93			1.0000	N/A
	Replicates	29.8	54.4	57.9	63.4								
CCV					CCV	06/14/22 02:20:24 pm	2.14	24393	1.47			1.0000	106.95
	Replicates	24505.4	24699.8	24494.0	23872.0								
CCB					CCB	06/14/22 02:21:41 pm	0.00	21	50.40			1.0000	N/A
	Replicates	17.1	-13.5	31.2	49.2								
480-198952-B-7-Csd@5					UNK	06/14/22 02:23:00 pm	0.01	55	29.23			1.0000	N/A
	Replicates	24.0	65.9	82.9	47.2								
480-198952-B-7-D MS					UNK	06/14/22 02:24:19 pm	3.85	43889	1.18			1.0000	N/A
	Replicates	43952.5	44362.3	44088.3	43151.6								
480-198952-B-7-E MSD					UNK	06/14/22 02:25:37 pm	3.86	44050	1.14			1.0000	N/A
	Replicates	44095.4	44487.4	44280.1	43338.9								
480-198952-B-8-C					UNK	06/14/22 02:26:56 pm	0.01	43	18.93			1.0000	N/A
	Replicates	45.3	33.9	62.9	31.9								
480-198952-B-9-A					UNK	06/14/22 02:28:14 pm	0.01	51	20.27			1.0000	N/A
	Replicates	53.2	33.3	72.8	44.3								
480-198952-B-10-A					UNK	06/14/22 02:29:31 pm	0.01	40	10.55			1.0000	N/A
	Replicates	29.2	45.4	40.7	44.9								
480-198952-B-12-A					UNK	06/14/22 02:30:49 pm	0.01	102	23.22			1.0000	N/A
	Replicates	123.4	56.0	116.8	111.8								
480-198952-B-13-A					UNK	06/14/22 02:32:07 pm	0.01	31	16.39			1.0000	N/A
	Replicates	28.6	41.3	17.8	36.6								
480-198952-B-14-A					UNK	06/14/22 02:33:24 pm	0.01	60	22.20			1.0000	N/A
	Replicates	67.8	30.7	77.4	62.9								
480-198952-B-15-A					UNK	06/14/22 02:34:42 pm	0.01	58	9.46			1.0000	N/A
	Replicates	56.4	61.9	46.4	65.9								
CCV					CCV	06/14/22 02:36:02 pm	2.13	24308	1.41			1.0000	106.58
	Replicates	24350.1	24606.0	24457.8	23817.5								
CCB					CCB	06/14/22 02:37:20 pm	0.01	42	34.33			1.0000	N/A
	Replicates	55.1	71.3	21.3	20.5								
480-198952-B-16-A					UNK	06/14/22 02:38:38 pm	0.05	530	2.94			1.0000	N/A
	Replicates	516.0	545.7	543.5	516.0								
480-198952-B-17-A					UNK	06/14/22 02:39:56 pm	0.00	15	19.70			1.0000	N/A
	Replicates	14.0	4.1	14.1	26.3								
480-198952-B-18-A					UNK	06/14/22 02:41:15 pm	0.01	29	31.26			1.0000	N/A
	Replicates	21.5	19.4	17.9	57.4								

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual Flags	DF	% Recovery
480-198952-B-19-A	UNK	06/14/22 02:42:33 pm	0.01	102	4.57		1.0000	N/A
Replicates	102.5	99.3	96.0	110.3				
480-198952-B-20-A	UNK	06/14/22 02:43:52 pm	0.01	57	32.57		1.0000	N/A
Replicates	97.4	59.3	32.1	40.8				
620-4983-H-2-B	UNK	06/14/22 02:45:11 pm	0.01	46	25.69		1.0000	N/A
Replicates	40.9	68.9	21.6	53.4				
MB 480-629933/1-A	UNK	06/14/22 02:46:29 pm	0.01	57	23.94		1.0000	N/A
Replicates	27.7	56.0	76.8	66.8				
LCS 480-629933/2-A	UNK	06/14/22 02:47:46 pm	3.95	45089	1.19		1.0000	N/A
Replicates	45249.6	45532.8	45270.3	44305.3				
480-198891-D-1-A	UNK	06/14/22 02:49:04 pm	0.01	92	15.83		1.0000	N/A
Replicates	119.5	73.9	89.1	84.9				
480-198891-D-2-A	UNK	06/14/22 02:50:22 pm	0.01	40	24.62		1.0000	N/A
Replicates	57.8	52.8	21.8	28.8				
CCV	CCV	06/14/22 02:51:41 pm	2.11	24005	1.40		1.0000	105.25
Replicates	24131.9	24302.9	24062.6	23521.9				
CCB	CCB	06/14/22 02:52:59 pm	0.00	12	59.60		1.0000	N/A
Replicates	-11.6	-9.3	32.2	36.7				
480-198891-D-3-A	UNK	06/14/22 02:54:17 pm	0.01	104	22.82		1.0000	N/A
Replicates	94.2	130.5	127.3	64.8				
480-198891-D-4-A	UNK	06/14/22 02:55:35 pm	0.01	94	21.35		1.0000	N/A
Replicates	93.6	113.4	111.9	55.9				
480-198891-D-5-A	UNK	06/14/22 02:56:53 pm	0.01	66	5.90		1.0000	N/A
Replicates	70.9	70.2	59.0	63.2				
480-198891-D-6-A	UNK	06/14/22 02:58:12 pm	0.01	90	26.24		1.0000	N/A
Replicates	79.0	108.3	50.6	122.3				
480-198949-D-1-C	UNK	06/14/22 02:59:30 pm	0.01	28	34.76		1.0000	N/A
Replicates	22.7	40.3	0.8	46.8				
480-198949-D-2-C	UNK	06/14/22 03:00:49 pm	0.01	39	19.18		1.0000	N/A
Replicates	22.7	51.1	49.1	33.1				
480-198949-C-3-C	UNK	06/14/22 03:02:07 pm	0.01	39	19.39		1.0000	N/A
Replicates	40.1	48.1	49.4	19.6				
480-198949-D-4-C	UNK	06/14/22 03:03:26 pm	0.01	29	12.60		1.0000	N/A
Replicates	32.7	35.2	29.2	18.0				
480-198949-D-5-G	UNK	06/14/22 03:04:44 pm	0.01	35	36.06		1.0000	N/A
Replicates	50.3	59.5	12.8	15.5				
480-198949-D-5-Gsd@5	UNK	06/14/22 03:06:02 pm	0.00	23	35.26		1.0000	N/A
Replicates	45.9	17.6	30.1	0.1				

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
CCV				CCV	06/14/22 03:07:22 pm	2.10	23997	1.36			1.0000	105.22
	Replicates	24079.9	24283.9	24097.6	23528.1							
CCB				CCB	06/14/22 03:08:40 pm	0.00	7	12.84			1.0000	N/A
	Replicates	-0.6	10.2	8.7	8.5							
480-198949-D-5-H MS				UNK	06/14/22 03:09:58 pm	4.11	46934	1.32			1.0000	N/A
	Replicates	47080.4	47468.6	47151.8	46035.8							
480-198949-D-5-I MSD				UNK	06/14/22 03:11:16 pm	4.25	48550	1.22			1.0000	N/A
	Replicates	48684.8	49030.6	48795.9	47687.4							
480-198949-D-6-C				UNK	06/14/22 03:12:33 pm	0.01	34	34.43			1.0000	N/A
	Replicates	58.5	24.8	45.8	7.3							
480-198949-D-7-C				UNK	06/14/22 03:13:52 pm	0.00	22	42.87			1.0000	N/A
	Replicates	26.4	50.5	16.5	-5.0							
480-198949-D-8-C				UNK	06/14/22 03:15:10 pm	0.01	33	17.97			1.0000	N/A
	Replicates	30.9	47.7	34.7	19.5							
480-198949-D-9-C				UNK	06/14/22 03:16:28 pm	0.01	51	22.63			1.0000	N/A
	Replicates	77.7	44.3	45.3	35.3							
480-198949-C-10-C				UNK	06/14/22 03:17:46 pm	0.01	45	11.22			1.0000	N/A
	Replicates	40.7	40.8	57.5	39.8							
480-198949-D-11-C				UNK	06/14/22 03:19:05 pm	0.00	11	18.15			1.0000	N/A
	Replicates	21.7	5.5	12.7	5.2							
480-198949-C-12-C				UNK	06/14/22 03:20:24 pm	0.00	18	43.80			1.0000	N/A
	Replicates	4.6	8.1	9.8	51.1							
MB 480-629934/1-A				UNK	06/14/22 03:21:43 pm	0.01	47	26.64			1.0000	N/A
	Replicates	73.5	54.6	35.9	25.9							
CCV				CCV	06/14/22 03:23:02 pm	2.07	23653	1.27			1.0000	103.71
	Replicates	23689.7	23914.0	23785.3	23224.3							
CCB				CCB	06/14/22 03:24:20 pm	0.00	15	61.52			1.0000	N/A
	Replicates	20.2	-9.6	-3.1	54.4							
LCS 480-629934/2-A				UNK	06/14/22 03:25:38 pm	4.03	46013	1.20			1.0000	N/A
	Replicates	46116.4	46479.6	46236.9	45217.4							
480-198896-D-1-C				UNK	06/14/22 03:26:57 pm	0.01	93	14.90			1.0000	N/A
	Replicates	115.1	102.3	81.3	74.8							
480-198896-D-2-C				UNK	06/14/22 03:28:15 pm	0.01	50	18.77			1.0000	N/A
	Replicates	55.8	50.0	64.3	28.5							
480-198896-D-3-C				UNK	06/14/22 03:29:33 pm	0.01	49	19.93			1.0000	N/A
	Replicates	55.3	61.1	54.6	25.4							
480-198896-D-4-C				UNK	06/14/22 03:30:51 pm	0.01	59	22.75			1.0000	N/A
	Replicates	80.5	69.6	32.6	54.9							

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-198896-D-4-Csd@5				UNK	06/14/22 03:32:09 pm	0.00	21	40.09			1.0000	N/A
Replicates	30.9	30.2	33.4	-10.6								
480-198896-D-4-D MS				UNK	06/14/22 03:33:28 pm	4.02	45915	0.82			1.0000	N/A
Replicates	45834.8	46237.4	46169.4	45416.7								
480-198896-D-4-E MSD				UNK	06/14/22 03:34:46 pm	4.00	45683	0.91			1.0000	N/A
Replicates	45647.8	46042.9	45928.9	45113.1								
480-198913-J-1-B				UNK	06/14/22 03:36:04 pm	0.01	42	11.89			1.0000	N/A
Replicates	45.1	50.6	30.1	40.4								
480-198776-F-1-C				UNK	06/14/22 03:37:23 pm	0.12	1353	1.95			1.0000	N/A
Replicates	1352.8	1387.1	1350.1	1321.1								
CCV				CCV	06/14/22 03:38:43 pm	2.14	24383	1.76			1.0000	106.91
Replicates	24402.3	24794.0	24549.5	23784.3								
CCB				CCB	06/14/22 03:40:01 pm	0.00	13	45.22			1.0000	N/A
Replicates	-17.1	25.4	21.1	22.9								
CCVL				CRDL	06/14/22 03:41:21 pm	0.22	2435	1.09			1.0000	108.00
Replicates	2434.9	2453.2	2454.2	2396.7								

METALS BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629262 Batch Start Date: 06/09/22 13:09 Batch Analyst: Klimowicz, Victoria A

Batch Method: 3005A Batch End Date: 06/09/22 16:43

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_01_Si 00163	MED_01_W1 00071	MED_02_W2 00069	MED_03_Ag 00179
MB 480-629262/1		3005A, 6010C		50 mL	50 mL				
LCS 480-629262/2		3005A, 6010C		50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-198720-D-1	CD-1	3005A, 6010C	T	50 mL	50 mL				
480-198720-D-2	CD-1RA	3005A, 6010C	T	50 mL	50 mL				
480-198720-D-3	MW-1B	3005A, 6010C	T	50 mL	50 mL				
480-198720-D-4	DUP CD-1RA	3005A, 6010C	T	50 mL	50 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_04_Sn 00167	MED_05_S 00125				
MB 480-629262/1		3005A, 6010C							
LCS 480-629262/2		3005A, 6010C		0.25 mL	0.25 mL				
480-198720-D-1	CD-1	3005A, 6010C	T						
480-198720-D-2	CD-1RA	3005A, 6010C	T						
480-198720-D-3	MW-1B	3005A, 6010C	T						
480-198720-D-4	DUP CD-1RA	3005A, 6010C	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629262 Batch Start Date: 06/09/22 13:09 Batch Analyst: Klimowicz, Victoria A

Batch Method: 3005A Batch End Date: 06/09/22 16:43

Batch Notes	
pH Indicator ID	HC911298
Digestion Tube/Cup ID	2202231
Pipette/Syringe/Dispenser ID	MDL-3
Analyst ID - Spike Analyst	NK
Sufficient Volume for Batch QC	YES
Hydrochloric Acid ID	7018360
Nitric Acid ID	7025843
Digestion Unit ID	G
Thermometer ID	210702965
Thermometer Location ID	D6
Temperature - Uncorrected - Start	95.6 Degrees C
Temperature - Corrected - Start	95.6 Degrees C
Digestion Start Time	06/09/2022 13:09
Digestion End Time	06/09/2022 16:43
Temperature - Uncorrected - End	98.0 Degrees C
Temperature - Corrected - End	98.0 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629664 Batch Start Date: 06/13/22 08:21 Batch Analyst: Klimowicz, Victoria A

Batch Method: 3005A Batch End Date: 06/13/22 11:51

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_01_Si 00166	MED_01_W1 00073	MED_02_W2 00070	MED_03_Ag 00181
MB 480-629664/1		3005A, 6010C		50 mL	50 mL				
LCS 480-629664/2		3005A, 6010C		50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-198813-D-1	MW-1A	3005A, 6010C	T	50 mL	50 mL				
480-198813-D-2	MW-2A	3005A, 6010C	T	50 mL	50 mL				
480-198813-D-3	MW-2B	3005A, 6010C	T	50 mL	50 mL				
480-198813-D-3 MS	MW-2B	3005A, 6010C	T	50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-198813-D-3 MSD	MW-2B	3005A, 6010C	T	50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-198813-D-4	MW-3A	3005A, 6010C	T	50 mL	50 mL				
480-198813-D-5	MW-3B	3005A, 6010C	T	50 mL	50 mL				
480-198813-D-6	MW-4A	3005A, 6010C	T	50 mL	50 mL				
480-198813-D-7	MW-5A	3005A, 6010C	T	50 mL	50 mL				
480-198813-D-8	MW-6A	3005A, 6010C	T	50 mL	50 mL				
480-198813-D-9	MW-6B	3005A, 6010C	T	50 mL	50 mL				
480-198813-R-10	MW-7A	3005A, 6010C	T	50 mL	50 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_04_Sn 00168	MED_05_S 00127				
MB 480-629664/1		3005A, 6010C							
LCS 480-629664/2		3005A, 6010C		0.25 mL	0.25 mL				
480-198813-D-1	MW-1A	3005A, 6010C	T						
480-198813-D-2	MW-2A	3005A, 6010C	T						
480-198813-D-3	MW-2B	3005A, 6010C	T						
480-198813-D-3 MS	MW-2B	3005A, 6010C	T	0.25 mL	0.25 mL				
480-198813-D-3 MSD	MW-2B	3005A, 6010C	T	0.25 mL	0.25 mL				
480-198813-D-4	MW-3A	3005A, 6010C	T						
480-198813-D-5	MW-3B	3005A, 6010C	T						
480-198813-D-6	MW-4A	3005A, 6010C	T						
480-198813-D-7	MW-5A	3005A, 6010C	T						
480-198813-D-8	MW-6A	3005A, 6010C	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629664 Batch Start Date: 06/13/22 08:21 Batch Analyst: Klimowicz, Victoria A

Batch Method: 3005A Batch End Date: 06/13/22 11:51

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_04_Sn 00168	MED_05_S 00127				
480-198813-D-9	MW-6B	3005A, 6010C	T						
480-198813-R-10	MW-7A	3005A, 6010C	T						

Batch Notes	
pH Indicator ID	HC911298
Digestion Tube/Cup ID	2202231
Pipette/Syringe/Dispenser ID	MDL-3
Analyst ID - Spike Analyst	NS
Sufficient Volume for Batch QC	YES
Hydrochloric Acid ID	7018360
Nitric Acid ID	7025843
Digestion Unit ID	A
Thermometer ID	210702965
Thermometer Location ID	E2
Temperature - Uncorrected - Start	96.2 Degrees C
Temperature - Corrected - Start	96.2 Degrees C
Digestion Start Time	06/13/2022 08:21
Digestion End Time	06/13/2022 11:51
Temperature - Uncorrected - End	96.4 Degrees C
Temperature - Corrected - End	96.4 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629787 Batch Start Date: 06/13/22 10:31 Batch Analyst: Stone, Natalie B

Batch Method: FILTRATION Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount					
MB 480-629787/1		FILTRATION, 3005A, 6010C		50 mL					
LCS 480-629787/2		FILTRATION, 3005A, 6010C		50 mL					
480-198720-E-1	CD-1	FILTRATION, 3005A, 6010C	D	50 mL					
480-198720-E-2	CD-1RA	FILTRATION, 3005A, 6010C	D	50 mL					
480-198720-E-4	DUP CD-1RA	FILTRATION, 3005A, 6010C	D	50 mL					
480-198813-R-2	MW-2A	FILTRATION, 3005A, 6010C	D	50 mL					
480-198813-R-8	MW-6A	FILTRATION, 3005A, 6010C	D	50 mL					
480-198813-D-10	MW-7A	FILTRATION, 3005A, 6010C	D	50 mL					

Batch Notes	
Nitric Acid ID	7025843
Batch Comment	Preserved 6/13/22 at

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629816 Batch Start Date: 06/14/22 09:55 Batch Analyst: Stone, Natalie B

Batch Method: 3005A Batch End Date: 06/14/22 13:24

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_01_Si 00166	MED_01_W1 00073	MED_02_W2 00070	MED_03_Ag 00181
MB 480-629787/1-A		3005A, 6010C		50 mL	50 mL				
LCS 480-629787/2-A		3005A, 6010C		50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-198720-E-1-A	CD-1	3005A, 6010C	D	50 mL	50 mL				
480-198720-E-2-A	CD-1RA	3005A, 6010C	D	50 mL	50 mL				
480-198720-E-2-A MS	CD-1RA	3005A, 6010C	D	50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-198720-E-2-A MSD	CD-1RA	3005A, 6010C	D	50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-198720-E-4-A	DUP CD-1RA	3005A, 6010C	D	50 mL	50 mL				
480-198813-R-2-A	MW-2A	3005A, 6010C	D	50 mL	50 mL				
480-198813-R-8-A	MW-6A	3005A, 6010C	D	50 mL	50 mL				
480-198813-D-10-A	MW-7A	3005A, 6010C	D	50 mL	50 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_04_Sn 00168	MED_05_S 00127				
MB 480-629787/1-A		3005A, 6010C							
LCS 480-629787/2-A		3005A, 6010C		0.25 mL	0.25 mL				
480-198720-E-1-A	CD-1	3005A, 6010C	D						
480-198720-E-2-A	CD-1RA	3005A, 6010C	D						
480-198720-E-2-A MS	CD-1RA	3005A, 6010C	D	0.25 mL	0.25 mL				
480-198720-E-2-A MSD	CD-1RA	3005A, 6010C	D	0.25 mL	0.25 mL				
480-198720-E-4-A	DUP CD-1RA	3005A, 6010C	D						
480-198813-R-2-A	MW-2A	3005A, 6010C	D						
480-198813-R-8-A	MW-6A	3005A, 6010C	D						
480-198813-D-10-A	MW-7A	3005A, 6010C	D						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629816 Batch Start Date: 06/14/22 09:55 Batch Analyst: Stone, Natalie B

Batch Method: 3005A Batch End Date: 06/14/22 13:24

Batch Notes	
pH Indicator ID	HC911298
Digestion Tube/Cup ID	2202231
Pipette/Syringe/Dispenser ID	MDL-3
Analyst ID - Spike Analyst	VK
Analyst ID - Spike Witness Analyst	NS
Sufficient Volume for Batch QC	YES
Hydrochloric Acid ID	7018360
Nitric Acid ID	7025843
Digestion Unit ID	C
Thermometer ID	210702965
Thermometer Location ID	E3
Temperature - Uncorrected - Start	96.7 Degrees C
Temperature - Corrected - Start	96.7 Degrees C
Digestion Start Time	06/14/2022 09:55
Digestion End Time	06/14/2022 13:24
Temperature - Uncorrected - End	96.8 Degrees C
Temperature - Corrected - End	96.8 Degrees C

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629607 Batch Start Date: 06/10/22 12:25 Batch Analyst: Klimowicz, Victoria A

Batch Method: 7470A Batch End Date: 06/10/22 14:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG1_WKG 02858	AnalysisComment		
MB 480-629607/1		7470A, 7470A		30 mL	50 mL		KMnO4 x2		
LCS 480-629607/2		7470A, 7470A		30 mL	50 mL	2 mL	KMnO4 x2		
480-198720-D-1	CD-1	7470A, 7470A	T	15 mL	50 mL		KMnO4 x2		
480-198720-D-2	CD-1RA	7470A, 7470A	T	15 mL	50 mL		KMnO4 x2		
480-198720-D-3	MW-1B	7470A, 7470A	T	30 mL	50 mL				
480-198720-D-4	DUP CD-1RA	7470A, 7470A	T	30 mL	50 mL				

Batch Notes	
Digestion Tube/Cup ID	2008043
Pipette/Syringe/Dispenser ID	Hg 8
Analyst ID - Spike Analyst	NK
Nitric Acid ID	6941025
Sulfuric Acid ID	6954285
Potassium Permanganate ID	6992937
Potassium Persulfate ID	6979379
Digestion Unit ID	HG-B
Thermometer ID	170435802
Temperature - Uncorrected - Start	94.1 Degrees C
Temperature - Corrected - Start	95.1 Degrees C
Digestion Start Time	1225
Digestion End Time	1425
Temperature - Uncorrected - End	93.0 Degrees C
Temperature - Corrected - End	94.0 Degrees C
Hydroxylamine ID	6979386
Batch Comment	1 & 2 Prep 1055

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629751 Batch Start Date: 06/13/22 10:37 Batch Analyst: Stone, Natalie B

Batch Method: 7470A Batch End Date: 06/13/22 12:37

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG1_WKG 02859	AnalysisComment		
MB 480-629751/1		7470A, 7470A		30 mL	50 mL		KMnO4 x2		
LCS 480-629751/2		7470A, 7470A		30 mL	50 mL	2 mL	KMnO4 x2		
480-198813-D-1	MW-1A	7470A, 7470A	T	30 mL	50 mL				
480-198813-D-1 MS	MW-1A	7470A, 7470A	T	30 mL	50 mL	2 mL			
480-198813-D-1 MSD	MW-1A	7470A, 7470A	T	30 mL	50 mL	2 mL			
480-198813-D-2	MW-2A	7470A, 7470A	T	30 mL	50 mL				
480-198813-D-3	MW-2B	7470A, 7470A	T	30 mL	50 mL				
480-198813-D-4	MW-3A	7470A, 7470A	T	30 mL	50 mL				
480-198813-D-5	MW-3B	7470A, 7470A	T	30 mL	50 mL				
480-198813-D-6	MW-4A	7470A, 7470A	T	30 mL	50 mL				
480-198813-D-7	MW-5A	7470A, 7470A	T	30 mL	50 mL				
480-198813-D-8	MW-6A	7470A, 7470A	T	15 mL	50 mL		KMnO4 x2		
480-198813-D-9	MW-6B	7470A, 7470A	T	30 mL	50 mL				
480-198813-R-10	MW-7A	7470A, 7470A	T	30 mL	50 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629751 Batch Start Date: 06/13/22 10:37 Batch Analyst: Stone, Natalie B

Batch Method: 7470A Batch End Date: 06/13/22 12:37

Batch Notes	
Digestion Tube/Cup ID	2008043
Pipette/Syringe/Dispenser ID	Hg 8
Analyst ID - Spike Analyst	NK
Nitric Acid ID	6941025
Sulfuric Acid ID	6954285
Potassium Permanganate ID	6992937
Potassium Persulfate ID	6979379
Digestion Unit ID	HG-A
Thermometer ID	170435802
Temperature - Uncorrected - Start	92.9 Degrees C
Temperature - Corrected - Start	93.9 Degrees C
Digestion Start Time	1037
Digestion End Time	1237
Temperature - Uncorrected - End	93.0 Degrees C
Temperature - Corrected - End	94.0 Degrees C
Hydroxylamine ID	6979386
Batch Comment	1 & 2 Prep 1003

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629787 Batch Start Date: 06/13/22 10:31 Batch Analyst: Stone, Natalie B

Batch Method: FILTRATION Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount					
MB 480-629787/1		FILTRATION, 7470A, 7470A		50 mL					
LCS 480-629787/2		FILTRATION, 7470A, 7470A		50 mL					
480-198720-E-1	CD-1	FILTRATION, 7470A, 7470A	D	50 mL					
480-198720-E-2	CD-1RA	FILTRATION, 7470A, 7470A	D	50 mL					
480-198720-E-4	DUP CD-1RA	FILTRATION, 7470A, 7470A	D	50 mL					
480-198813-R-2	MW-2A	FILTRATION, 7470A, 7470A	D	50 mL					
480-198813-R-8	MW-6A	FILTRATION, 7470A, 7470A	D	50 mL					
480-198813-D-10	MW-7A	FILTRATION, 7470A, 7470A	D	50 mL					

Batch Notes	
Nitric Acid ID	7025843
Batch Comment	Preserved 6/13/22 at

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629926 Batch Start Date: 06/14/22 10:39 Batch Analyst: Stone, Natalie B

Batch Method: 7470A Batch End Date: 06/14/22 12:39

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG1_WKG 02860			
MB 480-629787/1-A		7470A, 7470A		30 mL	50 mL				
LCS 480-629787/2-A		7470A, 7470A		30 mL	50 mL	2 mL			
480-198720-E-1-A	CD-1	7470A, 7470A	D	30 mL	50 mL				
480-198720-E-2-A	CD-1RA	7470A, 7470A	D	30 mL	50 mL				
480-198720-E-4-A	DUP CD-1RA	7470A, 7470A	D	30 mL	50 mL				
480-198720-E-4-A MS	DUP CD-1RA	7470A, 7470A	D	30 mL	50 mL	2 mL			
480-198720-E-4-A MSD	DUP CD-1RA	7470A, 7470A	D	30 mL	50 mL	2 mL			
480-198813-R-2-A	MW-2A	7470A, 7470A	D	30 mL	50 mL				
480-198813-R-8-A	MW-6A	7470A, 7470A	D	30 mL	50 mL				
480-198813-D-10-A	MW-7A	7470A, 7470A	D	30 mL	50 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629926 Batch Start Date: 06/14/22 10:39 Batch Analyst: Stone, Natalie B

Batch Method: 7470A Batch End Date: 06/14/22 12:39

Batch Notes	
Digestion Tube/Cup ID	2008043
Pipette/Syringe/Dispenser ID	Hg 8
Analyst ID - Spike Analyst	NK
Nitric Acid ID	6941025
Sulfuric Acid ID	6954285
Potassium Permanganate ID	6992937
Potassium Persulfate ID	6979379
Digestion Unit ID	HG-C
Thermometer ID	170435802
Temperature - Uncorrected - Start	93.1 Degrees C
Temperature - Corrected - Start	94.1 Degrees C
Digestion Start Time	1039
Digestion End Time	1239
Temperature - Uncorrected - End	93.0 Degrees C
Temperature - Corrected - End	94.0 Degrees C
Hydroxylamine ID	6979386
Batch Comment	1 & 2 Prep 1019

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG No.: 198720

Project: Towslee LF Baseline Q2 2022

Client Sample ID	Lab Sample ID
CD-1	480-198720-1
CD-1RA	480-198720-2
MW-1B	480-198720-3
DUP CD-1RA	480-198720-4
MW-1A	480-198813-1
MW-2A	480-198813-2
MW-2B	480-198813-3
MW-3A	480-198813-4
MW-3B	480-198813-5
MW-4A	480-198813-6
MW-5A	480-198813-7
MW-6A	480-198813-8
MW-6B	480-198813-9
MW-7A	480-198813-10

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CD-1 | Lab Sample ID: 480-198720-1

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG ID.: 198720

Matrix: Water | Date Sampled: 06/06/2022 13:20

Reporting Basis: WET | Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	22.7	20.0		mg/L			2	310.2
	Alkalinity, Total	120	30.0		mg/L		H	3	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.90	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L		F1	1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	15.6	5.0		mg/L			1	9038
	Total Dissolved Solids	173	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	ND	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L		*+	1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	ND	1.0		mg/L			1	SM 5310C
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CD-1 Lab Sample ID: 480-198720-1

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG ID.: 198720

Matrix: Water Date Sampled: 06/06/2022 13:20

Reporting Basis: WET Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	15.0	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CD-1RA
Lab Sample ID: 480-198720-2
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/06/2022 12:10
Reporting Basis: WET
Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	137	30.0		mg/L			3	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.25	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	17.5	5.0		mg/L			1	9038
	Total Dissolved Solids	166	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	2.0	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L		*+	1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	ND	1.0		mg/L			1	SM 5310C
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CD-1RA
Lab Sample ID: 480-198720-2
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/06/2022 12:10
Reporting Basis: WET
Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-1B
Lab Sample ID: 480-198720-3
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/06/2022 14:40
Reporting Basis: WET
Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	110	30.0		mg/L			3	310.2
57-12-5	Cyanide, Total	0.011	0.010		mg/L		F1	1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	ND	0.20		mg/L		*+	1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	12.9	5.0		mg/L			1	9038
	Total Dissolved Solids	147	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	14.2	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L		*+	1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	ND	1.0		mg/L			1	SM 5310C
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-1B
Lab Sample ID: 480-198720-3
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/06/2022 14:40
Reporting Basis: WET
Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	5.00	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DUP CD-1RA
Lab Sample ID: 480-198720-4
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/06/2022 12:10
Reporting Basis: WET
Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	144	20.0		mg/L			2	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.26	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	17.7	5.0		mg/L			1	9038
	Total Dissolved Solids	343	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	1.8	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L		*+	1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	ND	1.0		mg/L			1	SM 5310C
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DUP CD-1RA
Lab Sample ID: 480-198720-4
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/06/2022 12:10
Reporting Basis: WET
Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	5.00	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-1A
Lab Sample ID: 480-198813-1
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 10:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	149	30.0		mg/L			3	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	0.021	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	ND	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	18.3	5.0		mg/L			1	9038
	Total Dissolved Solids	227	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	35.1	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	ND	1.0		mg/L			1	SM 5310C
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L		*+	1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-1A
Lab Sample ID: 480-198813-1
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 10:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units		^-	1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-2A
Lab Sample ID: 480-198813-2
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 10:45
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	378	50.0		mg/L			5	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	7.8	0.10		mg/L			5	350.1
	Total Kjeldahl Nitrogen	9.4	0.40		mg/L			2	351.2
	Chemical Oxygen Demand	18.9	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	0.95	0.40		mg/L			2	300.0
14797-55-8	Nitrate as N	0.25	0.050		mg/L			1	353.2
14808-79-8	Sulfate	ND	5.0		mg/L			1	9038
	Total Dissolved Solids	329	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	19.3	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	6.5	1.0		mg/L			1	SM 5310C
	TOC Result 1	6.5	1.0		mg/L			1	SM 5310C
	TOC Result 2	6.5	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-2A
Lab Sample ID: 480-198813-2
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 10:45
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units		^-	1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-2B
Lab Sample ID: 480-198813-3
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 11:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	650	100		mg/L			10	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	0.53	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	1.4	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	19.9	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	1.5	0.40		mg/L			2	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	ND	5.0		mg/L			1	9038
	Total Dissolved Solids	722	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	75.3	1.0		mg/L		F1	1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	4.0	1.0		mg/L			1	SM 5310C
	TOC Result 1	3.9	1.0		mg/L			1	SM 5310C
	TOC Result 2	4.1	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-2B
Lab Sample ID: 480-198813-3
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 11:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units		^-	1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-3A
Lab Sample ID: 480-198813-4
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 08:30
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	191	20.0		mg/L			2	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	0.065	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.78	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L		H H3	1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	0.057	0.050		mg/L			1	353.2
14808-79-8	Sulfate	ND	5.0		mg/L			1	9038
	Total Dissolved Solids	195	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	3.9	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	1.5	1.0		mg/L			1	SM 5310C
	TOC Result 1	1.5	1.0		mg/L			1	SM 5310C
	TOC Result 2	1.5	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-3A
Lab Sample ID: 480-198813-4
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 08:30
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	15.0	5.00		Color Units		^-	1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-3B
Lab Sample ID: 480-198813-5
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 08:45
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	194	30.0		mg/L			3	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	ND	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L		H H3	1	7196A
24959-67-9	Bromide	0.31	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	11.8	5.0		mg/L			1	9038
	Total Dissolved Solids	219	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	21.0	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	2.3	2.0		mg/L		b	1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	3.0	1.0		mg/L			1	SM 5310C
	TOC Result 1	2.9	1.0		mg/L			1	SM 5310C
	TOC Result 2	3.1	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-3B
Lab Sample ID: 480-198813-5
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 08:45
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units		^-	1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-4A
Lab Sample ID: 480-198813-6
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 09:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	236	100		mg/L			10	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.37	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L		H	1	7196A
24959-67-9	Bromide	ND	0.40		mg/L			2	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	ND	5.0		mg/L			1	9038
	Total Dissolved Solids	405	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	10.6	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	1.1	1.0		mg/L			1	SM 5310C
	TOC Result 1	1.0	1.0		mg/L			1	SM 5310C
	TOC Result 2	1.2	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-4A
Lab Sample ID: 480-198813-6
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 09:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units		^-	1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-5A
Lab Sample ID: 480-198813-7
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 09:30
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	171	30.0		mg/L			3	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.45	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L		H	1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	17.7	5.0		mg/L			1	9038
	Total Dissolved Solids	162	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	4.5	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	ND	1.0		mg/L			1	SM 5310C
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L		*+	1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-5A
Lab Sample ID: 480-198813-7
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 09:30
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units		^-	1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-6A
Lab Sample ID: 480-198813-8
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 11:55
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	200	50.0		mg/L			5	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	0.19	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	2.7	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	27.4	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	0.075	0.050		mg/L			1	353.2
14808-79-8	Sulfate	ND	5.0		mg/L		F1	1	9038
	Total Dissolved Solids	426	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	78.8	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	4.7	2.0		mg/L		b	1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	5.7	1.0		mg/L			1	SM 5310C
	TOC Result 1	6.5	1.0		mg/L			1	SM 5310C
	TOC Result 2	4.9	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-6A
Lab Sample ID: 480-198813-8
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 11:55
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units		^-	1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-6B
Lab Sample ID: 480-198813-9
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 12:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	160	30.0		mg/L			3	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	ND	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	0.056	0.050		mg/L			1	353.2
14808-79-8	Sulfate	15.0	5.0		mg/L			1	9038
	Total Dissolved Solids	285	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	77.2	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	2.0	2.0		mg/L		b	1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	7.0	1.0		mg/L			1	SM 5310C
	TOC Result 1	7.1	1.0		mg/L			1	SM 5310C
	TOC Result 2	7.0	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-6B
Lab Sample ID: 480-198813-9
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 12:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units		^-	1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-7A
Lab Sample ID: 480-198813-10
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 13:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	445	50.0		mg/L			5	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	0.10	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.93	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	ND	0.40		mg/L			2	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	ND	5.0		mg/L			1	9038
	Total Dissolved Solids	423	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	19.4	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	8.0	1.0		mg/L			1	SM 5310C
	TOC Result 1	9.6	1.0		mg/L			1	SM 5310C
	TOC Result 2	6.4	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-7A
Lab Sample ID: 480-198813-10
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 13:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	25.0	5.00		Color Units		^-	1	SM 2120B

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: STR Batch Start Date: 06/06/2022

Reporting Units: mg/L Analytical Batch No.: 629307

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
8	ICB	23:21	Alkalinity, Total	ND					
13	ICV	14:00	Alkalinity, Total	33.59	32.3	104	90-110		Minerals_00024
14	CCB	14:01	Alkalinity, Total	ND					
15	CCV	14:01	Alkalinity, Total	51.42	50.0	103	90-110		WC_50ppmALK_00188
18	CCB	16:25	Alkalinity, Total	5.31				J	
19	CCV	16:25	Alkalinity, Total	51.36	50.0	103	90-110		WC_50ppmALK_00188
26	CCB	16:28	Alkalinity, Total	ND					
27	CCV	16:28	Alkalinity, Total	53.12	50.0	106	90-110		WC_50ppmALK_00188
49	CCB	16:34	Alkalinity, Total	ND					
53	CCV	16:35	Alkalinity, Total	49.85	50.0	100	90-110		WC_50ppmALK_00188
57	CCB	16:36	Alkalinity, Total	ND					
58	CCV	16:36	Alkalinity, Total	50.08	50.0	100	90-110		WC_50ppmALK_00188
63	CCB	16:39	Alkalinity, Total	ND					
64	CCV	16:39	Alkalinity, Total	53.64	50.0	107	90-110		WC_50ppmALK_00188
68	CCB	16:47	Alkalinity, Total	ND					
69	CCV	16:47	Alkalinity, Total	50.20	50.0	100	90-110		WC_50ppmALK_00188
78	CCV	16:50	Alkalinity, Total	48.76	50.0	98	90-110		WC_50ppmALK_00188
82	CCB	16:53	Alkalinity, Total	ND					
83	CCV	16:53	Alkalinity, Total	49.39	50.0	99	90-110		WC_50ppmALK_00188
87	CCB	16:55	Alkalinity, Total	ND					
88	CCV	16:55	Alkalinity, Total	49.61	50.0	99	90-110		WC_50ppmALK_00188

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: STR Batch Start Date: 06/21/2022

Reporting Units: mg/L Analytical Batch No.: 630965

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
8	ICB	12:00	Alkalinity, Total	ND					
13	ICV	12:14	Alkalinity, Total	31.91	32.3	99	90-110		Minerals_00024
18	CCB	12:33	Alkalinity, Total	ND					
19	CCV	12:33	Alkalinity, Total	51.62	50.0	103	90-110		WC_50ppmALK_00189
27	CCB	12:36	Alkalinity, Total	ND					
28	CCV	12:36	Alkalinity, Total	52.18	50.0	104	90-110		WC_50ppmALK_00189
37	CCB	12:38	Alkalinity, Total	ND					
38	CCV	12:38	Alkalinity, Total	46.47	50.0	93	90-110		WC_50ppmALK_00189
46	CCB	12:41	Alkalinity, Total	ND					
47	CCV	12:41	Alkalinity, Total	49.35	50.0	99	90-110		WC_50ppmALK_00189
57	CCB	12:44	Alkalinity, Total	ND					
58	CCV	12:44	Alkalinity, Total	49.87	50.0	100	90-110		WC_50ppmALK_00189
61	CCB	12:49	Alkalinity, Total	ND					
62	CCV	12:50	Alkalinity, Total	51.74	50.0	103	90-110		WC_50ppmALK_00189
73	CCB	13:16	Alkalinity, Total	ND					
74	CCV	13:16	Alkalinity, Total	52.72	50.0	105	90-110		WC_50ppmALK_00189
85	CCB	13:19	Alkalinity, Total	ND					
86	CCV	13:19	Alkalinity, Total	51.04	50.0	102	90-110		WC_50ppmALK_00189
94	CCB	13:22	Alkalinity, Total	ND					
95	CCV	13:22	Alkalinity, Total	51.14	50.0	102	90-110		WC_50ppmALK_00189
212	CCB	15:24	Alkalinity, Total	ND					
213	CCV	15:24	Alkalinity, Total	47.54	50.0	95	90-110		WC_50ppmALK_00189
218	CCB	15:24	Alkalinity, Total	ND					
219	CCV	15:25	Alkalinity, Total	48.46	50.0	97	90-110		WC_50ppmALK_00189
225	CCB	15:32	Alkalinity, Total	ND					
226	CCV	15:32	Alkalinity, Total	49.54	50.0	99	90-110		WC_50ppmALK_00189

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: CLT Batch Start Date: 06/13/2022

Reporting Units: mg/L Analytical Batch No.: 629819

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	10:42	Cyanide, Total	0.253	0.250	101	90-110		CN CCV_01701
2	CCB	10:43	Cyanide, Total	ND					
13	CCV	10:59	Cyanide, Total	0.252	0.250	101	90-110		CN CCV_01701
14	CCB	11:01	Cyanide, Total	ND					
25	CCV	11:17	Cyanide, Total	0.249	0.250	100	90-110		CN CCV_01701
26	CCB	11:18	Cyanide, Total	ND					
29	CCV	11:22	Cyanide, Total	0.248	0.250	99	90-110		CN CCV_01701
30	CCB	11:24	Cyanide, Total	ND	0.250				CN CCV_01701

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: CLT Batch Start Date: 06/15/2022

Reporting Units: mg/L Analytical Batch No.: 630238

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	18:06	Cyanide, Total	0.246	0.250	98	90-110		CN CCV_01703
2	CCB	18:07	Cyanide, Total	ND					
13	CCV	18:23	Cyanide, Total	0.244	0.250	98	90-110		CN CCV_01703
14	CCB	18:25	Cyanide, Total	ND					
25	CCV	18:41	Cyanide, Total	0.244	0.250	98	90-110		CN CCV_01703
26	CCB	18:42	Cyanide, Total	ND					
29	CCV	18:46	Cyanide, Total	0.243	0.250	97	90-110		CN CCV_01703
30	CCB	18:48	Cyanide, Total	ND					

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: CLT Batch Start Date: 06/17/2022

Reporting Units: mg/L Analytical Batch No.: 630471

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	08:46	Cyanide, Total	0.251	0.250	100	90-110		CN CCV_01705
2	CCB	08:47	Cyanide, Total	ND					
13	CCV	09:03	Cyanide, Total	0.251	0.250	100	90-110		CN CCV_01705
14	CCB	09:05	Cyanide, Total	ND					
25	CCV	09:21	Cyanide, Total	0.250	0.250	100	90-110		CN CCV_01705
26	CCB	09:22	Cyanide, Total	ND					

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: CLT Batch Start Date: 06/17/2022

Reporting Units: mg/L Analytical Batch No.: 630539

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	12:58	Cyanide, Total	0.253	0.250	101	90-110		CN CCV_01705
2	CCB	13:00	Cyanide, Total	ND					
13	CCV	13:16	Cyanide, Total	0.252	0.250	101	90-110		CN CCV_01705
14	CCB	13:17	Cyanide, Total	ND					
25	CCV	13:33	Cyanide, Total	0.253	0.250	101	90-110		CN CCV_01705
26	CCB	13:34	Cyanide, Total	ND					
29	CCV	13:39	Cyanide, Total	0.253	0.250	101	90-110		CN CCV_01705
30	CCB	13:40	Cyanide, Total	ND					

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: CLT Batch Start Date: 06/08/2022

Reporting Units: mg/L Analytical Batch No.: 629188

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	08:47	Ammonia	1.04	1.00	104	90-110		NH3 CCV_01557
2	CCB	08:48	Ammonia	ND					
13	CCV	09:00	Ammonia	1.03	1.00	103	90-110		NH3 CCV_01557
14	CCB	09:01	Ammonia	ND					
25	CCV	09:13	Ammonia	1.02	1.00	102	90-110		NH3 CCV_01557
26	CCB	09:14	Ammonia	ND					

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: CLT Batch Start Date: 06/10/2022

Reporting Units: mg/L Analytical Batch No.: 629604

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	08:50	Ammonia	0.995	1.00	100	90-110		NH3 CCV_01559
2	CCB	08:51	Ammonia	ND					
13	CCV	09:03	Ammonia	1.00	1.00	100	90-110		NH3 CCV_01559
14	CCB	09:05	Ammonia	ND					
25	CCV	09:17	Ammonia	1.00	1.00	100	90-110		NH3 CCV_01559
26	CCB	09:18	Ammonia	ND					
49	CCV	09:43	Ammonia	1.00	1.00	100	90-110		NH3 CCV_01559
50	CCB	09:44	Ammonia	ND					
61	CCV	09:56	Ammonia	1.00	1.00	100	90-110		NH3 CCV_01559
62	CCB	09:57	Ammonia	ND					
73	CCV	10:10	Ammonia	1.01	1.00	101	90-110		NH3 CCV_01559
74	CCB	10:11	Ammonia	ND					

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: CLT Batch Start Date: 06/13/2022

Reporting Units: mg/L Analytical Batch No.: 629788

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	06:26	Total Kjeldahl Nitrogen	2.71	2.50	108	90-110		TKN CCV_01406
2	CCB	06:26	Total Kjeldahl Nitrogen	ND					
6	CCV	07:11	Total Kjeldahl Nitrogen	2.70	2.50	108	90-110		TKN CCV_01406
7	CCB	07:11	Total Kjeldahl Nitrogen	ND					
35	CCV	08:15	Total Kjeldahl Nitrogen	2.66	2.50	107	90-110		TKN CCV_01406
36	CCB	08:15	Total Kjeldahl Nitrogen	ND					
41	CCV	08:18	Total Kjeldahl Nitrogen	2.68	2.50	107	90-110		TKN CCV_01406
42	CCB	08:18	Total Kjeldahl Nitrogen	ND					
45	CCV	10:12	Total Kjeldahl Nitrogen	2.73	2.50	109	90-110		TKN CCV_01406
46	CCB	10:12	Total Kjeldahl Nitrogen	ND					
57	CCV	10:28	Total Kjeldahl Nitrogen	2.69	2.50	108	90-110		TKN CCV_01406
58	CCB	10:28	Total Kjeldahl Nitrogen	ND					

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: CLT Batch Start Date: 06/14/2022

Reporting Units: mg/L Analytical Batch No.: 629963

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	08:33	Total Kjeldahl Nitrogen	2.71	2.50	108	90-110		TKN CCV_01407
2	CCB	08:33	Total Kjeldahl Nitrogen	ND					
7	CCV	08:36	Total Kjeldahl Nitrogen	2.62	2.50	105	90-110		TKN CCV_01407
8	CCB	08:36	Total Kjeldahl Nitrogen	ND					
17	CCV	09:08	Total Kjeldahl Nitrogen	2.66	2.50	106	90-110		TKN CCV_01407
18	CCB	09:08	Total Kjeldahl Nitrogen	ND					
28	CCV	09:17	Total Kjeldahl Nitrogen	2.67	2.50	107	90-110		TKN CCV_01407
29	CCB	09:17	Total Kjeldahl Nitrogen	ND					
42	CCV	10:16	Total Kjeldahl Nitrogen	2.67	2.50	107	90-110		TKN CCV_01407
43	CCB	10:16	Total Kjeldahl Nitrogen	ND					
53	CCV	10:24	Total Kjeldahl Nitrogen	2.73	2.50	109	90-110		TKN CCV_01407
54	CCB	10:24	Total Kjeldahl Nitrogen	ND					

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: CLT Batch Start Date: 06/16/2022

Reporting Units: mg/L Analytical Batch No.: 630270

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
3	ICV	07:33	Total Kjeldahl Nitrogen	2.69	2.50	108	90-110		TKN ICV_00288
4	ICB	07:33	Total Kjeldahl Nitrogen	ND					
5	CCV	07:51	Total Kjeldahl Nitrogen	2.64	2.50	106	90-110		TKN CCV_01409
6	CCB	07:51	Total Kjeldahl Nitrogen	ND					
10	CCV	07:53	Total Kjeldahl Nitrogen	2.60	2.50	104	90-110		TKN CCV_01409
11	CCB	07:53	Total Kjeldahl Nitrogen	ND					
22	CCV	08:34	Total Kjeldahl Nitrogen	2.55	2.50	102	90-110		TKN CCV_01409
23	CCB	08:34	Total Kjeldahl Nitrogen	ND					

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: CSS Batch Start Date: 06/14/2022

Reporting Units: mg/L Analytical Batch No.: 630049

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	18:00	Chemical Oxygen Demand	75.04	75.0	100	90-110		COD 75 PPM_00046
2	CCB	18:00	Chemical Oxygen Demand	ND					
13	CCV	18:00	Chemical Oxygen Demand	74.02	75.0	99	90-110		COD 75 PPM_00046
14	CCB	18:00	Chemical Oxygen Demand	ND					
25	CCV	18:00	Chemical Oxygen Demand	74.70	75.0	100	90-110		COD 75 PPM_00046
26	CCB	18:00	Chemical Oxygen Demand	ND					
37	CCV	18:00	Chemical Oxygen Demand	74.02	75.0	99	90-110		COD 75 PPM_00046
38	CCB	18:00	Chemical Oxygen Demand	ND					
49	CCV	18:00	Chemical Oxygen Demand	75.04	75.0	100	90-110		COD 75 PPM_00046
50	CCB	18:00	Chemical Oxygen Demand	ND					

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: CLT Batch Start Date: 06/13/2022

Reporting Units: mg/L Analytical Batch No.: 629847

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
10	ICV	08:07	Phenolics, Total Recoverable	0.100	0.100	100	90-110		Phenol ICV_00437
11	ICB	08:11	Phenolics, Total Recoverable	ND					
14	CCV	08:23	Phenolics, Total Recoverable	0.0988	0.100	99	90-110		WC_Phenol_CCV_00570
15	CCB	08:26	Phenolics, Total Recoverable	ND					
27	CCV	09:11	Phenolics, Total Recoverable	0.0966	0.100	97	90-110		WC_Phenol_CCV_00570
28	CCB	09:13	Phenolics, Total Recoverable	ND					
41	CCV	10:01	Phenolics, Total Recoverable	0.0953	0.100	95	90-110		WC_Phenol_CCV_00570
42	CCB	10:05	Phenolics, Total Recoverable	ND					
55	CCV	10:52	Phenolics, Total Recoverable	0.0989	0.100	99	90-110		WC_Phenol_CCV_00570
56	CCB	10:56	Phenolics, Total Recoverable	ND					
69	CCV	11:44	Phenolics, Total Recoverable	0.0955	0.100	96	90-110		WC_Phenol_CCV_00570
70	CCB	11:47	Phenolics, Total Recoverable	ND					
83	CCV	12:35	Phenolics, Total Recoverable	0.0958	0.100	96	90-110		WC_Phenol_CCV_00570
84	CCB	12:39	Phenolics, Total Recoverable	ND					

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: EAG Batch Start Date: 06/07/2022

Reporting Units: mg/L Analytical Batch No.: 629118

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	11:00	Chromium, hexavalent	0.0428	0.0500	86	85-115		HEX INT STD_00118
2	CCB	11:00	Chromium, hexavalent	ND					
13	CCV	11:00	Chromium, hexavalent	0.0499	0.0500	100	85-115		HEX INT STD_00118
14	CCV	11:00	Chromium, hexavalent	ND					
25	CCV	11:00	Chromium, hexavalent	0.0511	0.0500	102	85-115		HEX INT STD_00118
26	CCB	11:00	Chromium, hexavalent	ND					
34	CCV	11:00	Chromium, hexavalent	0.0463	0.0500	93	85-115		HEX INT STD_00118
35	CCB	11:00	Chromium, hexavalent	ND					

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: EAG Batch Start Date: 06/09/2022

Reporting Units: mg/L Analytical Batch No.: 629426

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	10:15	Chromium, hexavalent	0.0475	0.0500	95	85-115		HEX INT STD_00118
2	CCB	10:15	Chromium, hexavalent	ND					
13	CCV	10:15	Chromium, hexavalent	0.0522	0.0500	104	85-115		HEX INT STD_00118
14	CCB	10:15	Chromium, hexavalent	ND					
24	CCV	10:15	Chromium, hexavalent	0.0534	0.0500	107	85-115		HEX INT STD_00118
25	CCB	10:15	Chromium, hexavalent	ND					

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: EJL Batch Start Date: 06/07/2022

Reporting Units: Color Units Analytical Batch No.: 629139

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	15:30	Color	30.00	30.0	100	90-110		Color Std-2_00021
2	CCB	15:30	Color	ND					

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: EJL Batch Start Date: 06/09/2022

Reporting Units: Color Units Analytical Batch No.: 629501

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	15:30	Color	30.00	30.0	100	90-110		Color Std-2_00021
2	CCB	15:30	Color	ND					
13	CCV	15:30	Color	30.00	30.0	100	90-110		Color Std-2_00021
14	CCB	15:30	Color	ND					
21	CCV	15:30	Color	30.00	30.0	100	90-110		Color Std-2_00021
22	CCB	15:30	Color	ND					

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: IMZ Batch Start Date: 06/14/2022

Reporting Units: mg/L Analytical Batch No.: 629883

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	CCV	13:53	Bromide	4.66	5.01	93	90-110		IC_ANION_LCS__00421
3	CCB	14:07	Bromide	ND					
14	CCV	16:42	Bromide	4.67	5.01	93	90-110		IC_ANION_LCS__00421
15	CCB	16:56	Bromide	ND					
26	CCV	19:32	Bromide	4.67	5.01	93	90-110		IC_ANION_LCS__00421
27	CCB	19:46	Bromide	ND					

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: IMZ Batch Start Date: 06/15/2022

Reporting Units: mg/L Analytical Batch No.: 630215

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	CCV	17:28	Bromide	4.87	5.01	97	90-110		IC_ANION_LCS__00421
3	CCB	17:42	Bromide	ND					
14	CCV	20:17	Bromide	4.86	5.01	97	90-110		IC_ANION_LCS__00421
15	CCB	20:32	Bromide	ND					
26	CCV	23:07	Bromide	4.85	5.01	97	90-110		IC_ANION_LCS__00421
27	CCB	23:21	Bromide	ND					

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: IMZ Batch Start Date: 06/17/2022

Reporting Units: mg/L Analytical Batch No.: 630550

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	CCV	17:39	Bromide	5.06	5.01	101	90-110		IC_ANION_LCS__00421
3	CCB	17:58	Bromide	ND					
14	CCV	21:22	Bromide	5.11	5.01	102	90-110		IC_ANION_LCS__00421
15	CCB	21:41	Bromide	ND					

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: STR Batch Start Date: 06/09/2022

Reporting Units: mg/L Analytical Batch No.: 629495

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
9	ICB	12:05	Sulfate	ND					
51	CCB	12:32	Sulfate	ND					
52	CCV	12:32	Sulfate	29.00	30.0	97	90-110		Sulf 30ppm_00196
58	CCB	12:36	Sulfate	ND					
59	CCV	12:36	Sulfate	29.13	30.0	97	90-110		Sulf 30ppm_00196
114	CCB	13:42	Sulfate	ND					
115	CCV	13:42	Sulfate	29.37	30.0	98	90-110		Sulf 30ppm_00196
123	CCB	13:49	Sulfate	ND					
124	CCV	13:49	Sulfate	29.73	30.0	99	90-110		Sulf 30ppm_00196
134	CCB	13:51	Sulfate	ND					
135	CCV	13:51	Sulfate	29.93	30.0	100	90-110		Sulf 30ppm_00196
147	CCV	13:56	Sulfate	29.68	30.0	99	90-110		Sulf 30ppm_00196
148	CCB	13:58	Sulfate	ND					
152	CCV	14:03	Sulfate	29.42	30.0	98	90-110		Sulf 30ppm_00196
154	CCB	14:04	Sulfate	ND					
157	CCV	14:54	Sulfate	29.54	30.0	98	90-110		Sulf 30ppm_00196
161	CCB	14:55	Sulfate	ND					
168	CCV	14:57	Sulfate	30.22	30.0	101	90-110		Sulf 30ppm_00196
173	CCB	14:58	Sulfate	ND					
180	CCV	14:59	Sulfate	29.12	30.0	97	90-110		Sulf 30ppm_00196
184	CCB	15:00	Sulfate	ND					
191	CCV	15:05	Sulfate	29.29	30.0	98	90-110		Sulf 30ppm_00196

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: RDA Batch Start Date: 05/20/2022

Reporting Units: mg/L Analytical Batch No.: 629332

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
8	ICB	18:35	Chloride	ND					
13	ICV	18:21	Chloride	58.57					
240	CCB	22:48	Chloride	ND					
241	CCV	22:48	Chloride	25.21	25.0	101	90-110		WC25ppmChlInt_00162
249	CCB	22:52	Chloride	ND					
250	CCV	22:52	Chloride	25.02	25.0	100	90-110		WC25ppmChlInt_00162
259	CCB	22:56	Chloride	ND					
260	CCV	22:57	Chloride	24.64	25.0	99	90-110		WC25ppmChlInt_00162
273	CCB	23:05	Chloride	ND					
274	CCV	23:06	Chloride	24.86	25.0	99	90-110		WC25ppmChlInt_00162
284	CCB	23:11	Chloride	ND					
285	CCV	23:11	Chloride	24.84	25.0	99	90-110		WC25ppmChlInt_00162
298	CCB	23:15	Chloride	ND					
299	CCV	23:15	Chloride	25.09	25.0	100	90-110		WC25ppmChlInt_00162
310	CCB	23:19	Chloride	ND					
311	CCV	23:19	Chloride	25.00	25.0	100	90-110		WC25ppmChlInt_00162
322	CCB	23:42	Chloride	ND					
323	CCV	23:42	Chloride	25.02	25.0	100	90-110		WC25ppmChlInt_00162

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: IMZ Batch Start Date: 06/26/2022

Reporting Units: mg/L Analytical Batch No.: 631684

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
3	ICB	10:36	Chloride	ND					
4	ICV	10:36	Chloride	26.72	25.0	107	90-110		WC25ppmChlInt_00163
9	CCVL	10:52	Chloride	ND	0.500	80	70-130		WC25ppmChlInt_00164
10	CCV	10:53	Chloride	26.28	25.0	105	90-110		WC25ppmChlInt_00164
12	CCB	10:53	Chloride	ND					
14	CCV	12:13	Chloride	26.91	25.0	108	90-110		WC25ppmChlInt_00164
16	CCB	12:13	Chloride	ND					
22	CCV	12:15	Chloride	27.03	25.0	108	90-110		WC25ppmChlInt_00164
24	CCB	12:15	Chloride	ND					
90	CCV	13:45	Chloride	26.52	25.0	106	90-110		WC25ppmChlInt_00164
92	CCB	13:45	Chloride	ND					
94	CCV	14:04	Chloride	26.79	25.0	107	90-110		WC25ppmChlInt_00164
96	CCB	14:04	Chloride	ND					
102	CCV	14:10	Chloride	26.56	25.0	106	90-110		WC25ppmChlInt_00164
104	CCB	14:10	Chloride	ND					
111	CCV	14:13	Chloride	26.81	25.0	107	90-110		WC25ppmChlInt_00164
113	CCB	14:13	Chloride	ND					
122	CCV	14:21	Chloride	26.96	25.0	108	90-110		WC25ppmChlInt_00164
124	CCB	14:21	Chloride	ND					
126	CCV	14:49	Chloride	26.98	25.0	108	90-110		WC25ppmChlInt_00164
128	CCB	14:49	Chloride	ND					
138	CCV	14:50	Chloride	27.05	25.0	108	90-110		WC25ppmChlInt_00164
140	CCB	14:50	Chloride	ND					
148	CCV	14:52	Chloride	26.76	25.0	107	90-110		WC25ppmChlInt_00164
150	CCB	14:52	Chloride	ND					

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: KER Batch Start Date: 06/13/2022

Reporting Units: mg/L Analytical Batch No.: 629996

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	ICV	17:54	Total Organic Carbon - Duplicates	61.45	60.1	102	90-110		TOC_CCV_00214
			TOC Result 1	59.50	60.1	99	90-110		TOC_CCV_00214
			TOC Result 2	63.40	60.1	105	90-110		TOC_CCV_00214
3	ICB	18:12	Total Organic Carbon - Duplicates	ND					
			TOC Result 1	ND					
			TOC Result 2	ND					
26	CCV	00:21	Total Organic Carbon - Duplicates	60.64	60.1	101	90-110		TOC_CCV_00214
			TOC Result 1	58.92	60.1	98	90-110		TOC_CCV_00214
			TOC Result 2	62.36	60.1	104	90-110		TOC_CCV_00214
27	CCB	00:38	Total Organic Carbon - Duplicates	ND					
			TOC Result 1	ND					
			TOC Result 2	ND					
38	CCV	03:34	Total Organic Carbon - Duplicates	61.75	60.1	103	90-110		TOC_CCV_00214
			TOC Result 1	59.05	60.1	98	90-110		TOC_CCV_00214
			TOC Result 2	64.45	60.1	107	90-110		TOC_CCV_00214
39	CCB	03:52	Total Organic Carbon - Duplicates	ND					
			TOC Result 1	ND					
			TOC Result 2	ND					
72	CCVL	12:51	Total Organic Carbon - Duplicates	1.02	1.00	102	50-150		TOC_Ag1000_00007
			TOC Result 1	0.956	1.00	95		J	TOC_Ag1000_00007
			TOC Result 2	1.08	1.00	108			TOC_Ag1000_00007

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: KER Batch Start Date: 06/15/2022

Reporting Units: mg/L Analytical Batch No.: 630302

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	ICV	11:13	Total Organic Carbon - Duplicates	62.16	60.1	103	90-110		TOC_CCV_00214
			TOC Result 1	62.45	60.1	104	90-110		TOC_CCV_00214
			TOC Result 2	61.87	60.1	103	90-110		TOC_CCV_00214
3	ICB	11:29	Total Organic Carbon - Duplicates	ND					
			TOC Result 1	ND					
			TOC Result 2	ND					
14	CCV	14:24	Total Organic Carbon - Duplicates	62.23	60.1	104	90-110		TOC_CCV_00214
			TOC Result 1	61.95	60.1	103	90-110		TOC_CCV_00214
			TOC Result 2	62.51	60.1	104	90-110		TOC_CCV_00214
15	CCB	14:40	Total Organic Carbon - Duplicates	ND					
			TOC Result 1	ND					
			TOC Result 2	ND					
26	CCV	17:36	Total Organic Carbon - Duplicates	61.55	60.1	102	90-110		TOC_CCV_00214
			TOC Result 1	61.14	60.1	102	90-110		TOC_CCV_00214
			TOC Result 2	61.97	60.1	103	90-110		TOC_CCV_00214
27	CCB	17:51	Total Organic Carbon - Duplicates	ND					
			TOC Result 1	ND					
			TOC Result 2	ND					
38	CCV	20:48	Total Organic Carbon - Duplicates	62.18	60.1	103	90-110		TOC_CCV_00214
			TOC Result 1	61.91	60.1	103	90-110		TOC_CCV_00214
			TOC Result 2	62.45	60.1	104	90-110		TOC_CCV_00214
39	CCB	21:04	Total Organic Carbon - Duplicates	ND					
			TOC Result 1	ND					
			TOC Result 2	ND					
87	CCVL	09:55	Total Organic Carbon - Duplicates	0.806	1.00	80	50-150	J	TOC_Ag1000_00008
			TOC Result 1	0.595	1.00	59		J	TOC_Ag1000_00008
			TOC Result 2	1.02	1.00	101			TOC_Ag1000_00008

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: KER Batch Start Date: 06/18/2022

Reporting Units: mg/L Analytical Batch No.: 630732

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
50	CCV	13:01	Total Organic Carbon - Duplicates	59.71	60.1	99	90-110		TOC_CCV_00214
			TOC Result 1	57.95	60.1	96	90-110		TOC_CCV_00214
			TOC Result 2	61.47	60.1	102	90-110		TOC_CCV_00214
51	CCB	13:30	Total Organic Carbon - Duplicates	ND					
			TOC Result 1	ND					
			TOC Result 2	ND					
62	CCV	18:56	Total Organic Carbon - Duplicates	60.32	60.1	100	90-110		TOC_CCV_00214
			TOC Result 1	58.62	60.1	98	90-110		TOC_CCV_00214
			TOC Result 2	62.02	60.1	103	90-110		TOC_CCV_00214
63	CCB	19:26	Total Organic Carbon - Duplicates	ND					
			TOC Result 1	ND					
			TOC Result 2	ND					
74	CCV	00:55	Total Organic Carbon - Duplicates	61.37	60.1	102	90-110		TOC_CCV_00214
			TOC Result 1	59.76	60.1	99	90-110		TOC_CCV_00214
			TOC Result 2	62.98	60.1	105	90-110		TOC_CCV_00214
75	CCB	01:24	Total Organic Carbon - Duplicates	ND					
			TOC Result 1	ND					
			TOC Result 2	0.529				J	
82	CCVL	04:50	Total Organic Carbon - Duplicates	1.33	1.00	133	50-150		TOC_Ag1000_00008
			TOC Result 1	0.968	1.00	97		J	TOC_Ag1000_00008
			TOC Result 2	1.70	1.00	170			TOC_Ag1000_00008

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Analyst: KER Batch Start Date: 06/22/2022

Reporting Units: mg/L Analytical Batch No.: 631325

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
26	CCV	17:43	Total Organic Carbon - Duplicates	60.53	60.1	101	90-110		TOC_CCV_00214
			TOC Result 1	60.68	60.1	101	90-110		TOC_CCV_00214
			TOC Result 2	60.38	60.1	100	90-110		TOC_CCV_00214
27	CCB	17:59	Total Organic Carbon - Duplicates	ND					
			TOC Result 1	ND					
			TOC Result 2	ND					
38	CCV	20:56	Total Organic Carbon - Duplicates	61.20	60.1	102	90-110		TOC_CCV_00214
			TOC Result 1	61.22	60.1	102	90-110		TOC_CCV_00214
			TOC Result 2	61.18	60.1	102	90-110		TOC_CCV_00214
39	CCB	21:11	Total Organic Carbon - Duplicates	ND					
			TOC Result 1	ND					
			TOC Result 2	ND					
50	CCV	00:09	Total Organic Carbon - Duplicates	61.19	60.1	102	90-110		TOC_CCV_00214
			TOC Result 1	61.39	60.1	102	90-110		TOC_CCV_00214
			TOC Result 2	60.99	60.1	101	90-110		TOC_CCV_00214
51	CCB	00:24	Total Organic Carbon - Duplicates	ND					
			TOC Result 1	ND					
			TOC Result 2	ND					
62	CCV	03:21	Total Organic Carbon - Duplicates	61.54	60.1	102	90-110		TOC_CCV_00214
			TOC Result 1	61.49	60.1	102	90-110		TOC_CCV_00214
			TOC Result 2	61.59	60.1	102	90-110		TOC_CCV_00214
63	CCB	03:37	Total Organic Carbon - Duplicates	ND					
			TOC Result 1	ND					
			TOC Result 2	ND					

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

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 629883 Date: 06/14/2022 14:21							
300.0	MB 480-629883/4	Bromide	ND		mg/L	0.20	1
Batch ID: 630215 Date: 06/15/2022 17:56							
300.0	MB 480-630215/4	Bromide	ND		mg/L	0.20	1
Batch ID: 630550 Date: 06/17/2022 18:16							
300.0	MB 480-630550/4	Bromide	ND		mg/L	0.20	1
Batch ID: 629307 Date: 06/08/2022 14:01							
310.2	MB 480-629307/17	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 629307 Date: 06/08/2022 16:26							
310.2	MB 480-629307/21	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 629307 Date: 06/08/2022 16:36							
310.2	MB 480-629307/56	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 629307 Date: 06/08/2022 16:37							
310.2	MB 480-629307/62	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 629307 Date: 06/08/2022 16:39							
310.2	MB 480-629307/66	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 629307 Date: 06/08/2022 16:50							
310.2	MB 480-629307/80	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 629307 Date: 06/08/2022 16:54							
310.2	MB 480-629307/85	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 630965 Date: 06/21/2022 12:33							
310.2	MB 480-630965/21	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 630965 Date: 06/21/2022 12:36							
310.2	MB 480-630965/30	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 630965 Date: 06/21/2022 12:38							
310.2	MB 480-630965/40	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 630965 Date: 06/21/2022 12:50							
310.2	MB 480-630965/64	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 630965 Date: 06/21/2022 13:17							
310.2	MB 480-630965/76	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 630965 Date: 06/21/2022 13:20							
310.2	MB 480-630965/88	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 630965 Date: 06/21/2022 15:24							
310.2	MB 480-630965/215	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 630965 Date: 06/21/2022 15:25							
310.2	MB 480-630965/221	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 629819 Date: 06/13/2022 10:45		Prep Batch: 629693 Date: 06/11/2022 14:15					
335.4	MB 480-629693/1-A	Cyanide, Total	ND		mg/L	0.010	1
Batch ID: 630238 Date: 06/15/2022 18:09		Prep Batch: 630206 Date: 06/15/2022 15:30					
335.4	MB 480-630206/1-A	Cyanide, Total	ND		mg/L	0.010	1
Batch ID: 630471 Date: 06/17/2022 08:49		Prep Batch: 630398 Date: 06/16/2022 21:15					
335.4	MB 480-630398/1-A	Cyanide, Total	ND		mg/L	0.010	1
Batch ID: 630539 Date: 06/17/2022 13:01		Prep Batch: 630516 Date: 06/17/2022 10:30					
335.4	MB 480-630516/1-A	Cyanide, Total	0.0100		mg/L	0.010	1
Batch ID: 629188 Date: 06/08/2022 08:49							
350.1	MB 480-629188/3	Ammonia	ND		mg/L	0.020	1

FORM III-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 629604 Date: 06/10/2022 08:52							
350.1	MB 480-629604/3	Ammonia	ND		mg/L	0.020	1
Batch ID: 629604 Date: 06/10/2022 09:45							
350.1	MB 480-629604/51	Ammonia	ND		mg/L	0.020	1
Batch ID: 629788 Date: 06/13/2022 07:09 Prep Batch: 629708 Date: 06/12/2022 12:55							
351.2	MB 480-629708/1-A	Total Kjeldahl Nitrogen	ND		mg/L	0.20	1
Batch ID: 629963 Date: 06/14/2022 08:33 Prep Batch: 629826 Date: 06/13/2022 12:10							
351.2	MB 480-629826/1-A	Total Kjeldahl Nitrogen	ND		mg/L	0.20	1
Batch ID: 630270 Date: 06/16/2022 07:51 Prep Batch: 630167 Date: 06/15/2022 12:38							
351.2	MB 480-630167/1-A	Total Kjeldahl Nitrogen	ND		mg/L	0.20	1
Batch ID: 630049 Date: 06/14/2022 18:00							
410.4	MB 480-630049/3	Chemical Oxygen Demand	ND		mg/L	10.0	1
Batch ID: 630049 Date: 06/14/2022 18:00							
410.4	MB 480-630049/27	Chemical Oxygen Demand	ND		mg/L	10.0	1
Batch ID: 629847 Date: 06/13/2022 08:29							
420.4	MB 480-629847/16	Phenolics, Total Recoverable	ND		mg/L	0.010	1
Batch ID: 629847 Date: 06/13/2022 10:17							
420.4	MB 480-629847/45	Phenolics, Total Recoverable	ND		mg/L	0.010	1
Batch ID: 629847 Date: 06/13/2022 11:59							
420.4	MB 480-629847/73	Phenolics, Total Recoverable	ND		mg/L	0.010	1
Batch ID: 629118 Date: 06/07/2022 11:00							
7196A	MB 480-629118/3	Chromium, hexavalent	ND		mg/L	0.010	1
Batch ID: 629118 Date: 06/07/2022 11:00							
7196A	MB 480-629118/27	Chromium, hexavalent	ND		mg/L	0.010	1
Batch ID: 629426 Date: 06/09/2022 10:15							
7196A	MB 480-629426/3	Chromium, hexavalent	ND		mg/L	0.010	1
Batch ID: 629495 Date: 06/09/2022 12:33							
9038	MB 480-629495/53	Sulfate	ND		mg/L	5.0	1
Batch ID: 629495 Date: 06/09/2022 13:43							
9038	MB 480-629495/117	Sulfate	ND		mg/L	5.0	1
Batch ID: 629495 Date: 06/09/2022 13:50							
9038	MB 480-629495/128	Sulfate	ND		mg/L	5.0	1
Batch ID: 629495 Date: 06/09/2022 14:54							
9038	MB 480-629495/156	Sulfate	ND		mg/L	5.0	1
Batch ID: 629495 Date: 06/09/2022 14:57							
9038	MB 480-629495/167	Sulfate	ND		mg/L	5.0	1
Batch ID: 629495 Date: 06/09/2022 14:59							
9038	MB 480-629495/179	Sulfate	ND		mg/L	5.0	1
Batch ID: 629139 Date: 06/07/2022 15:30							
SM 2120B	MB 480-629139/3	Color	ND		Color Units	5.00	1
Batch ID: 629501 Date: 06/09/2022 15:30							
SM 2120B	MB 480-629501/3	Color	ND	^-	Color Units	5.00	1
Batch ID: 629374 Date: 06/09/2022 09:41							
SM 2540C	MB 480-629374/1	Total Dissolved Solids	ND		mg/L	10.0	1

FORM III-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 629377 Date: 06/09/2022 09:45							
SM 2540C	MB 480-629377/1	Total Dissolved Solids	ND		mg/L	10.0	1
Batch ID: 629552 Date: 06/10/2022 09:23							
SM 2540C	MB 480-629552/1	Total Dissolved Solids	ND		mg/L	10.0	1
Batch ID: 629750 Date: 06/13/2022 09:26							
SM 2540C	MB 480-629750/1	Total Dissolved Solids	ND		mg/L	10.0	1
Batch ID: 629332 Date: 06/08/2022 22:49							
SM 4500 Cl- E	MB 480-629332/243	Chloride	ND		mg/L	1.0	1
Batch ID: 629332 Date: 06/08/2022 22:53							
SM 4500 Cl- E	MB 480-629332/252	Chloride	ND		mg/L	1.0	1
Batch ID: 629332 Date: 06/08/2022 22:57							
SM 4500 Cl- E	MB 480-629332/262	Chloride	ND		mg/L	1.0	1
Batch ID: 629332 Date: 06/08/2022 23:07							
SM 4500 Cl- E	MB 480-629332/276	Chloride	ND		mg/L	1.0	1
Batch ID: 629332 Date: 06/08/2022 23:12							
SM 4500 Cl- E	MB 480-629332/287	Chloride	ND		mg/L	1.0	1
Batch ID: 629332 Date: 06/08/2022 23:16							
SM 4500 Cl- E	MB 480-629332/301	Chloride	ND		mg/L	1.0	1
Batch ID: 629332 Date: 06/08/2022 23:19							
SM 4500 Cl- E	MB 480-629332/313	Chloride	ND		mg/L	1.0	1
Batch ID: 631684 Date: 06/26/2022 10:53							
SM 4500 Cl- E	MB 480-631684/13	Chloride	ND		mg/L	1.0	1
Batch ID: 631684 Date: 06/26/2022 12:13							
SM 4500 Cl- E	MB 480-631684/17	Chloride	ND		mg/L	1.0	1
Batch ID: 631684 Date: 06/26/2022 13:45							
SM 4500 Cl- E	MB 480-631684/93	Chloride	ND		mg/L	1.0	1
Batch ID: 631684 Date: 06/26/2022 14:04							
SM 4500 Cl- E	MB 480-631684/97	Chloride	ND		mg/L	1.0	1
Batch ID: 631684 Date: 06/26/2022 14:10							
SM 4500 Cl- E	MB 480-631684/105	Chloride	ND		mg/L	1.0	1
Batch ID: 631684 Date: 06/26/2022 14:21							
SM 4500 Cl- E	MB 480-631684/125	Chloride	ND		mg/L	1.0	1
Batch ID: 631684 Date: 06/26/2022 14:49							
SM 4500 Cl- E	MB 480-631684/129	Chloride	ND		mg/L	1.0	1
Batch ID: 631684 Date: 06/26/2022 14:50							
SM 4500 Cl- E	MB 480-631684/141	Chloride	ND		mg/L	1.0	1

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 629996 Date: 06/14/2022 00:54							
SM 5310C	MB 480-629996/28	Total Organic Carbon - Duplicates	ND		mg/L	1.0	1
SM 5310C	MB 480-629996/28	TOC Result 1	ND		mg/L	1.0	1
SM 5310C	MB 480-629996/28	TOC Result 2	ND		mg/L	1.0	1
Batch ID: 630302 Date: 06/15/2022 11:45							
SM 5310C	MB 480-630302/4	Total Organic Carbon - Duplicates	ND		mg/L	1.0	1
SM 5310C	MB 480-630302/4	TOC Result 1	ND		mg/L	1.0	1
SM 5310C	MB 480-630302/4	TOC Result 2	ND		mg/L	1.0	1
Batch ID: 630302 Date: 06/15/2022 18:40							
SM 5310C	MB 480-629854/1-A	Total Organic Carbon - Duplicates	ND		mg/L	1.0	1
SM 5310C	MB 480-629854/1-A	TOC Result 1	ND		mg/L	1.0	1
SM 5310C	MB 480-629854/1-A	TOC Result 2	ND		mg/L	1.0	1
Batch ID: 630732 Date: 06/18/2022 14:00							
SM 5310C	MB 480-630732/52	Total Organic Carbon - Duplicates	ND		mg/L	1.0	1
SM 5310C	MB 480-630732/52	TOC Result 1	ND		mg/L	1.0	1
SM 5310C	MB 480-630732/52	TOC Result 2	ND		mg/L	1.0	1
Batch ID: 631325 Date: 06/22/2022 18:15							
SM 5310C	MB 480-631325/28	Total Organic Carbon - Duplicates	ND		mg/L	1.0	1
SM 5310C	MB 480-631325/28	TOC Result 1	ND		mg/L	1.0	1
SM 5310C	MB 480-631325/28	TOC Result 2	ND		mg/L	1.0	1
Batch ID: 631325 Date: 06/23/2022 00:40							
SM 5310C	MB 480-631325/52	Total Organic Carbon - Duplicates	ND		mg/L	1.0	1
SM 5310C	MB 480-631325/52	TOC Result 1	ND		mg/L	1.0	1
SM 5310C	MB 480-631325/52	TOC Result 2	ND		mg/L	1.0	1

3-IN
UNSEEDED CONTROL BLANK
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 629154 Date: 06/07/2022 18:52							
SM 5210B	USB 480-629154/1	Biochemical Oxygen Demand	ND		mg/L	2.0	1
Batch ID: 629517 Date: 06/09/2022 15:30							
SM 5210B	USB 480-629517/1	Biochemical Oxygen Demand	ND		mg/L	2.0	1

FORM III-IN

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 630215	Date: 06/15/2022 22:53										
300.0	480-198813-6	Bromide	ND		mg/L						
300.0	480-198813-6 MS	Bromide	9.77		mg/L	10.0	94	80-120			
Batch ID: 630965	Date: 06/21/2022 13:17										
310.2	480-198720-1	Alkalinity, Total	120		mg/L						H
310.2	480-198720-1 MS	Alkalinity, Total	100.5		mg/L	20.0	-98	60-140			4
Batch ID: 629819	Date: 06/13/2022 11:21	Prep Batch: 629693	Date: 06/11/2022 14:15								
335.4	480-198720-3	Cyanide, Total	0.011		mg/L						F1
335.4	480-198720-3 MS	Cyanide, Total	0.0122		mg/L	0.00500	20	90-110			F1
Batch ID: 630539	Date: 06/17/2022 13:11	Prep Batch: 630516	Date: 06/17/2022 10:30								
335.4	480-198813-10	Cyanide, Total	ND		mg/L						
335.4	480-198813-10 MS	Cyanide, Total	0.0126		mg/L	0.00500	106	90-110			
Batch ID: 629188	Date: 06/08/2022 09:04										
350.1	480-198720-4	Ammonia	ND		mg/L						
350.1	480-198720-4 MS	Ammonia	0.193		mg/L	0.200	97	90-110			
Batch ID: 629604	Date: 06/10/2022 08:59										
350.1	480-198813-1	Ammonia	0.021		mg/L						
350.1	480-198813-1 MS	Ammonia	0.215		mg/L	0.200	97	90-110			
Batch ID: 629604	Date: 06/10/2022 09:08										
350.1	480-198813-5	Ammonia	ND		mg/L						
350.1	480-198813-5 MS	Ammonia	0.216		mg/L	0.200	108	90-110			
Batch ID: 629963	Date: 06/14/2022 10:24	Prep Batch: 629826	Date: 06/13/2022 12:10								
351.2	480-198813-2	Total Kjeldahl Nitrogen	9.4		mg/L						
351.2	480-198813-2 MS	Total Kjeldahl Nitrogen	11.10		mg/L	1.00	170	90-110			4
Batch ID: 630049	Date: 06/14/2022 18:00										
410.4	480-198720-4	Chemical Oxygen Demand	ND		mg/L						
410.4	480-198720-4 MS	Chemical Oxygen Demand	58.03		mg/L	50.0	116	75-125			
Batch ID: 630049	Date: 06/14/2022 18:00										
410.4	480-198813-6	Chemical Oxygen Demand	ND		mg/L						
410.4	480-198813-6 MS	Chemical Oxygen Demand	58.03		mg/L	50.0	116	75-125			
Batch ID: 630049	Date: 06/14/2022 18:00										
410.4	480-198813-9	Chemical Oxygen Demand	ND		mg/L						
410.4	480-198813-9 MS	Chemical Oxygen Demand	55.65		mg/L	50.0	111	75-125			
Batch ID: 629847	Date: 06/13/2022 09:32										
420.4	480-198720-1	Phenolics, Total Recoverable	ND		mg/L						F1
420.4	480-198720-1 MS	Phenolics, Total Recoverable	0.0658		mg/L	0.100	66	90-110			F1

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

FORM V-IN

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 629847 Date: 06/13/2022 12:09											
420.4	480-198813-5	Phenolics, Total Recoverable	ND		mg/L						
420.4	480-198813-5 MS	Phenolics, Total Recoverable	0.0965		mg/L	0.100	97	90-110			
Batch ID: 629118 Date: 06/07/2022 11:00											
7196A	480-198720-4	Chromium, hexavalent	ND		mg/L						
7196A	480-198720-4 MS	Chromium, hexavalent	0.0463		mg/L	0.0500	93	85-115			
Batch ID: 629426 Date: 06/09/2022 10:15											
7196A	480-198813-5	Chromium, hexavalent	ND		mg/L						H H3
7196A	480-198813-5 MS	Chromium, hexavalent	0.0428		mg/L	0.0500	86	85-115			
Batch ID: 629426 Date: 06/09/2022 10:15											
7196A	480-198813-9	Chromium, hexavalent	ND		mg/L						
7196A	480-198813-9 MS	Chromium, hexavalent	0.0452		mg/L	0.0500	90	85-115			
Batch ID: 629495 Date: 06/09/2022 14:58											
9038	480-198813-8	Sulfate	ND		mg/L						F1
9038	480-198813-8 MS	Sulfate	27.22		mg/L	20.0	136	60-128			F1
Batch ID: 631684 Date: 06/26/2022 14:11											
SM 4500 Cl- E	480-198813-3	Chloride	75.3		mg/L						F1
SM 4500 Cl- E	480-198813-3 MS	Chloride	87.30		mg/L	20.0	60	74-131			F1
Batch ID: 631684 Date: 06/26/2022 14:50											
SM 4500 Cl- E	480-198813-4	Chloride	3.9		mg/L						
SM 4500 Cl- E	480-198813-4 MS	Chloride	24.99		mg/L	20.0	106	74-131			
Batch ID: 630302 Date: 06/15/2022 12:48											
SM 5310C	480-198813-P-2	Total Organic Carbon - Duplicates	7.0		mg/L						
SM 5310C	480-198813-P-2 MS	Total Organic Carbon - Duplicates	32.99		mg/L	22.8	114	54-131			
SM 5310C	480-198813-P-2	TOC Result 1	7.0		mg/L						
SM 5310C	480-198813-P-2 MS	TOC Result 1	33.26		mg/L	22.8	115	54-131			
SM 5310C	480-198813-P-2	TOC Result 2	7.0		mg/L						*+
SM 5310C	480-198813-P-2 MS	TOC Result 2	32.73		mg/L	22.8	113	54-131			

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

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 630965 Date: 06/21/2022 13:17											
310.2	480-198720-1 MSD	Alkalinity, Total	98.49		mg/L	20.0	-108	60-140	2	20	4
Batch ID: 630049 Date: 06/14/2022 18:00											
410.4	480-198720-4 MSD	Chemical Oxygen Demand	55.31		mg/L	50.0	111	75-125	5	20	
Batch ID: 630049 Date: 06/14/2022 18:00											
410.4	480-198813-6 MSD	Chemical Oxygen Demand	57.01		mg/L	50.0	114	75-125	2	20	
Batch ID: 629495 Date: 06/09/2022 14:58											
9038	480-198813-8 MSD	Sulfate	25.36		mg/L	20.0	127	60-128	7	20	
Batch ID: 631684 Date: 06/26/2022 14:11											
SM 4500 Cl- E	480-198813-3 MSD	Chloride	87.31		mg/L	20.0	60	74-131	0	20	F1
Batch ID: 631684 Date: 06/26/2022 14:50											
SM 4500 Cl- E	480-198813-4 MSD	Chloride	24.98		mg/L	20.0	106	74-131	0	20	
Batch ID: 630302 Date: 06/15/2022 13:04											
SM 5310C	480-198813-P-2 MSD	Total Organic Carbon - Duplicates	32.27		mg/L	22.8	111	54-131	2	20	
SM 5310C	480-198813-P-2 MSD	TOC Result 1	32.11		mg/L	22.8	110	54-131	4	20	
SM 5310C	480-198813-P-2 MSD	TOC Result 2	32.44		mg/L	22.8	112	54-131	1	20	

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

FORM V-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 629188 Date: 06/08/2022 09:03								
350.1	DUP CD-1RA	480-198720-4	Ammonia	ND	mg/L			
350.1	DUP CD-1RA	480-198720-4 DU	Ammonia	ND	mg/L	NC	20	
Batch ID: 629604 Date: 06/10/2022 09:07								
350.1	MW-3B	480-198813-5	Ammonia	ND	mg/L			
350.1	MW-3B	480-198813-5 DU	Ammonia	ND	mg/L	NC	20	
Batch ID: 629963 Date: 06/14/2022 08:59 Prep Batch: 629826 Date: 06/13/2022 12:10								
351.2	MW-1A	480-198813-1	Total Kjeldahl Nitrogen	ND	mg/L			
351.2	MW-1A	480-198813-1 DU	Total Kjeldahl Nitrogen	ND	mg/L	NC	20	
Batch ID: 629847 Date: 06/13/2022 09:28								
420.4	CD-1	480-198720-1	Phenolics, Total Recoverable	ND	mg/L			
420.4	CD-1	480-198720-1 DU	Phenolics, Total Recoverable	ND	mg/L	NC	20	
Batch ID: 629118 Date: 06/07/2022 11:00								
7196A	MW-1B	480-198720-3	Chromium, hexavalent	ND	mg/L			
7196A	MW-1B	480-198720-3 DU	Chromium, hexavalent	ND	mg/L	NC	20	
Batch ID: 629426 Date: 06/09/2022 10:15								
7196A	MW-3A	480-198813-4	Chromium, hexavalent	ND	mg/L			
7196A	MW-3A	480-198813-4 DU	Chromium, hexavalent	ND	mg/L	NC	20	
Batch ID: 629426 Date: 06/09/2022 10:15								
7196A	MW-5A	480-198813-7	Chromium, hexavalent	ND	mg/L			
7196A	MW-5A	480-198813-7 DU	Chromium, hexavalent	ND	mg/L	NC	20	
Batch ID: 629501 Date: 06/09/2022 15:30								
SM 2120B	MW-1A	480-198813-1	Color	10.0	Color Units			
SM 2120B	MW-1A	480-198813-1 DU	Color	10.00	Color Units	0	20	^-
Batch ID: 629501 Date: 06/09/2022 15:30								
SM 2120B	MW-6A	480-198813-8	Color	10.0	Color Units			
SM 2120B	MW-6A	480-198813-8 DU	Color	10.00	Color Units	0	20	^-
Batch ID: 629374 Date: 06/09/2022 09:41								
SM 2540C	MW-1B	480-198720-3	Total Dissolved Solids	147	mg/L			
SM 2540C	MW-1B	480-198720-3 DU	Total Dissolved Solids	145.0	mg/L	1	10	
Batch ID: 629377 Date: 06/09/2022 09:45								
SM 2540C	CD-1RA	480-198720-2	Total Dissolved Solids	166	mg/L			
SM 2540C	CD-1RA	480-198720-2 DU	Total Dissolved Solids	176.0	mg/L	6	10	
Batch ID: 629552 Date: 06/10/2022 09:23								
SM 2540C	MW-5A	480-198813-7	Total Dissolved Solids	162	mg/L			
SM 2540C	MW-5A	480-198813-7 DU	Total Dissolved Solids	162.0	mg/L	0	10	
Batch ID: 629517 Date: 06/09/2022 15:30								
SM 5210B	MW-4A	480-198813-6	Biochemical Oxygen Demand	ND	mg/L			
SM 5210B	MW-4A	480-198813-6 DU	Biochemical Oxygen Demand	ND	mg/L	NC	20	

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 629883 Date: 06/14/2022 14:35											
						LCS Source: IC_ANION_LCS__00421					
300.0	LCS 480-629883/5	Bromide	4.66		mg/L	5.01	93	90-110			
Batch ID: 630215 Date: 06/15/2022 18:10											
						LCS Source: IC_ANION_LCS__00421					
300.0	LCS 480-630215/5	Bromide	4.75		mg/L	5.01	95	90-110			
Batch ID: 630550 Date: 06/17/2022 18:35											
						LCS Source: IC_ANION_LCS__00421					
300.0	LCS 480-630550/5	Bromide	5.07		mg/L	5.01	101	90-110			
Batch ID: 629307 Date: 06/08/2022 16:25											
						LCS Source: WC_50ppmALK_00188					
310.2	LCS 480-629307/20	Alkalinity, Total	51.98		mg/L	50.0	104	90-110			
Batch ID: 629307 Date: 06/08/2022 16:36											
						LCS Source: WC_50ppmALK_00188					
310.2	LCS 480-629307/59	Alkalinity, Total	49.60		mg/L	50.0	99	90-110			
Batch ID: 629307 Date: 06/08/2022 16:39											
						LCS Source: WC_50ppmALK_00188					
310.2	LCS 480-629307/65	Alkalinity, Total	47.99		mg/L	50.0	96	90-110			
Batch ID: 629307 Date: 06/08/2022 16:54											
						LCS Source: WC_50ppmALK_00188					
310.2	LCS 480-629307/84	Alkalinity, Total	48.41		mg/L	50.0	97	90-110			
Batch ID: 630965 Date: 06/21/2022 12:36											
						LCS Source: WC_50ppmALK_00189					
310.2	LCS 480-630965/29	Alkalinity, Total	51.63		mg/L	50.0	103	90-110			
Batch ID: 630965 Date: 06/21/2022 12:38											
						LCS Source: WC_50ppmALK_00189					
310.2	LCS 480-630965/39	Alkalinity, Total	47.81		mg/L	50.0	96	90-110			
Batch ID: 630965 Date: 06/21/2022 13:16											
						LCS Source: WC_50ppmALK_00189					
310.2	LCS 480-630965/75	Alkalinity, Total	53.18		mg/L	50.0	106	90-110			
Batch ID: 630965 Date: 06/21/2022 13:19											
						LCS Source: WC_50ppmALK_00189					
310.2	LCS 480-630965/87	Alkalinity, Total	50.49		mg/L	50.0	101	90-110			
Batch ID: 630965 Date: 06/21/2022 15:25											
						LCS Source: WC_50ppmALK_00189					
310.2	LCS 480-630965/220	Alkalinity, Total	46.79		mg/L	50.0	94	90-110			

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

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 629819	Date: 06/13/2022 10:46		Prep Batch: 629693			Date: 06/11/2022 14:15					
						LCS Source: 400 LCS comp_00006					
335.4	LCS 480-629693/2-A	Cyanide, Total	0.396		mg/L	0.400	99	90-110			
Batch ID: 629819	Date: 06/13/2022 10:48		Prep Batch: 629693			Date: 06/11/2022 14:15					
						LCS Source: CN LCS 250_00285					
335.4	LCS 480-629693/3-A	Cyanide, Total	0.243		mg/L	0.250	97	90-110			
Batch ID: 630238	Date: 06/15/2022 18:10		Prep Batch: 630206			Date: 06/15/2022 15:30					
						LCS Source: 400 LCS comp_00007					
335.4	LCS 480-630206/2-A	Cyanide, Total	0.392		mg/L	0.400	98	90-110			
Batch ID: 630238	Date: 06/15/2022 18:12		Prep Batch: 630206			Date: 06/15/2022 15:30					
						LCS Source: CN LCS 250_00286					
335.4	LCS 480-630206/3-A	Cyanide, Total	0.242		mg/L	0.250	97	90-110			
Batch ID: 630471	Date: 06/17/2022 08:50		Prep Batch: 630398			Date: 06/16/2022 21:15					
						LCS Source: CN LCS 250_00286					
335.4	LCS 480-630398/2-A	Cyanide, Total	0.246		mg/L	0.250	98	90-110			
Batch ID: 630539	Date: 06/17/2022 13:03		Prep Batch: 630516			Date: 06/17/2022 10:30					
						LCS Source: 400 LCS comp_00007					
335.4	LCS 480-630516/2-A	Cyanide, Total	0.375		mg/L	0.400	94	90-110			
Batch ID: 630539	Date: 06/17/2022 13:04		Prep Batch: 630516			Date: 06/17/2022 10:30					
						LCS Source: CN LCS 250_00286					
335.4	LCS 480-630516/3-A	Cyanide, Total	0.240		mg/L	0.250	96	90-110			
Batch ID: 629188	Date: 06/08/2022 08:50										
						LCS Source: NH3 CCV_01557					
350.1	LCS 480-629188/4	Ammonia	1.03		mg/L	1.00	103	90-110			
Batch ID: 629604	Date: 06/10/2022 08:54										
						LCS Source: NH3 CCV_01559					
350.1	LCS 480-629604/4	Ammonia	0.994		mg/L	1.00	99	90-110			
Batch ID: 629604	Date: 06/10/2022 09:46										
						LCS Source: NH3 CCV_01559					
350.1	LCS 480-629604/52	Ammonia	1.00		mg/L	1.00	100	90-110			

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

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 629788	Date: 06/13/2022 10:12	Prep Batch: 629708	Date: 06/12/2022 12:55								
						LCS Source: TKN1000ppmSTD_00017					
351.2	LCS 480-629708/2-A	Total Kjeldahl Nitrogen	5.27		mg/L	2.50	211	90-110			*+
Batch ID: 629963	Date: 06/14/2022 08:33	Prep Batch: 629826	Date: 06/13/2022 12:10								
						LCS Source: TKN1000ppmSTD_00017					
351.2	LCS 480-629826/2-A	Total Kjeldahl Nitrogen	2.68		mg/L	2.50	107	90-110			
Batch ID: 630270	Date: 06/16/2022 07:51	Prep Batch: 630167	Date: 06/15/2022 12:38								
						LCS Source: TKN1000ppmSTD_00017					
351.2	LCS 480-630167/2-A	Total Kjeldahl Nitrogen	2.49		mg/L	2.50	100	90-110			
Batch ID: 630049	Date: 06/14/2022 18:00										
						LCS Source: COD 25 PPM_00083					
410.4	LCS 480-630049/4	Chemical Oxygen Demand	25.04		mg/L	25.0	100	90-110			
Batch ID: 630049	Date: 06/14/2022 18:00										
						LCS Source: COD 25 PPM_00083					
410.4	LCS 480-630049/28	Chemical Oxygen Demand	24.02		mg/L	25.0	96	90-110			
Batch ID: 629847	Date: 06/13/2022 08:33										
						LCS Source: WC_Phenol_CCV_00570					
420.4	LCS 480-629847/17	Phenolics, Total Recoverable	0.0973		mg/L	0.100	97	90-110			
Batch ID: 629847	Date: 06/13/2022 10:19										
						LCS Source: WC_Phenol_CCV_00570					
420.4	LCS 480-629847/46	Phenolics, Total Recoverable	0.0957		mg/L	0.100	96	90-110			
Batch ID: 629847	Date: 06/13/2022 12:02										
						LCS Source: WC_Phenol_CCV_00570					
420.4	LCS 480-629847/74	Phenolics, Total Recoverable	0.0955		mg/L	0.100	96	90-110			
Batch ID: 629118	Date: 06/07/2022 11:00										
						LCS Source: HEX INT STD_00118					
7196A	LCS 480-629118/4	Chromium, hexavalent	0.0534		mg/L	0.0500	107	85-115			
Batch ID: 629118	Date: 06/07/2022 11:00										
						LCS Source: HEX INT STD_00118					
7196A	LCS 480-629118/28	Chromium, hexavalent	0.0499		mg/L	0.0500	100	85-115			
Batch ID: 629426	Date: 06/09/2022 10:15										
						LCS Source: HEX INT STD_00118					
7196A	LCS 480-629426/4	Chromium, hexavalent	0.0463		mg/L	0.0500	93	85-115			

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

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 629495	Date: 06/09/2022 12:33										
						LCS Source: Sulf 30ppm_00196					
9038	LCS 480-629495/54	Sulfate	29.91		mg/L	30.0	100	90-110			
Batch ID: 629495	Date: 06/09/2022 13:43										
						LCS Source: Sulf 30ppm_00196					
9038	LCS 480-629495/118	Sulfate	29.37		mg/L	30.0	98	90-110			
Batch ID: 629495	Date: 06/09/2022 13:50										
						LCS Source: Sulf 30ppm_00196					
9038	LCS 480-629495/129	Sulfate	29.36		mg/L	30.0	98	90-110			
Batch ID: 629495	Date: 06/09/2022 14:56										
						LCS Source: Sulf 30ppm_00196					
9038	LCS 480-629495/163	Sulfate	29.41		mg/L	30.0	98	90-110			
Batch ID: 629495	Date: 06/09/2022 14:58										
						LCS Source: Sulf 30ppm_00196					
9038	LCS 480-629495/174	Sulfate	29.52		mg/L	30.0	98	90-110			
Batch ID: 629139	Date: 06/07/2022 15:30										
						LCS Source: Color Std-2_00021					
SM 2120B	LCS 480-629139/4	Color	30.00		Color Units	30.0	100	90-110			
Batch ID: 629501	Date: 06/09/2022 15:30										
						LCS Source: Color Std-2_00021					
SM 2120B	LCS 480-629501/4	Color	30.00		Color Units	30.0	100	90-110			^-
Batch ID: 629374	Date: 06/09/2022 09:41										
						LCS Source: 5895584_00010					
SM 2540C	LCS 480-629374/2	Total Dissolved Solids	472.0		mg/L	538	88	85-115			
Batch ID: 629377	Date: 06/09/2022 09:45										
						LCS Source: 5895584_00010					
SM 2540C	LCS 480-629377/2	Total Dissolved Solids	459.0		mg/L	538	85	85-115			
Batch ID: 629552	Date: 06/10/2022 09:23										
						LCS Source: 5895584_00010					
SM 2540C	LCS 480-629552/2	Total Dissolved Solids	463.0		mg/L	538	86	85-115			
Batch ID: 629750	Date: 06/13/2022 09:26										
						LCS Source: 5895584_00010					
SM 2540C	LCS 480-629750/2	Total Dissolved Solids	500.0		mg/L	538	93	85-115			

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

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 629332	Date: 06/08/2022 22:53										
						LCS Source: WC25ppmChlInt_00162					
SM 4500 Cl- E	LCS 480-629332/251	Chloride	25.25		mg/L	25.0	101	90-110			
Batch ID: 629332	Date: 06/08/2022 23:06										
						LCS Source: WC25ppmChlInt_00162					
SM 4500 Cl- E	LCS 480-629332/275	Chloride	24.95		mg/L	25.0	100	90-110			
Batch ID: 629332	Date: 06/08/2022 23:16										
						LCS Source: WC25ppmChlInt_00162					
SM 4500 Cl- E	LCS 480-629332/300	Chloride	25.04		mg/L	25.0	100	90-110			
Batch ID: 629332	Date: 06/08/2022 23:19										
						LCS Source: WC25ppmChlInt_00162					
SM 4500 Cl- E	LCS 480-629332/312	Chloride	25.16		mg/L	25.0	101	90-110			
Batch ID: 631684	Date: 06/26/2022 12:13										
						LCS Source: WC25ppmChlInt_00164					
SM 4500 Cl- E	LCS 480-631684/15	Chloride	27.03		mg/L	25.0	108	90-110			
Batch ID: 631684	Date: 06/26/2022 14:04										
						LCS Source: WC25ppmChlInt_00164					
SM 4500 Cl- E	LCS 480-631684/95	Chloride	26.90		mg/L	25.0	108	90-110			
Batch ID: 631684	Date: 06/26/2022 14:10										
						LCS Source: WC25ppmChlInt_00164					
SM 4500 Cl- E	LCS 480-631684/103	Chloride	26.67		mg/L	25.0	107	90-110			
Batch ID: 631684	Date: 06/26/2022 14:49										
						LCS Source: WC25ppmChlInt_00164					
SM 4500 Cl- E	LCS 480-631684/127	Chloride	27.10		mg/L	25.0	108	90-110			
Batch ID: 631684	Date: 06/26/2022 14:50										
						LCS Source: WC25ppmChlInt_00164					
SM 4500 Cl- E	LCS 480-631684/139	Chloride	27.02		mg/L	25.0	108	90-110			
Batch ID: 629154	Date: 06/07/2022 18:52										
						LCS Source: GGA_00015					
SM 5210B	LCS 480-629154/2	Biochemical Oxygen Demand	246.1		mg/L	198	124	85-115			*+
Batch ID: 629517	Date: 06/09/2022 15:30										
						LCS Source: GGA_00015					
SM 5210B	LCS 480-629517/2	Biochemical Oxygen Demand	196.3		mg/L	198	99	85-115			

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

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 630302	Date: 06/15/2022 12:01										
						LCS Source: TOC_LCS_00213					
SM 5310C	LCS 480-630302/5	Total Organic Carbon - Duplicates	65.01		mg/L	60.0	108	90-110			
SM 5310C	LCS 480-630302/5	TOC Result 1	63.66		mg/L	60.0	106	90-110			
SM 5310C	LCS 480-630302/5	TOC Result 2	66.36		mg/L	60.0	111	90-110			*+
Batch ID: 630302	Date: 06/15/2022 18:56										
						LCS Source: TOC_LCS_00213					
SM 5310C	LCS 480-629854/2-A	Total Organic Carbon - Duplicates	65.07		mg/L	60.0	108	90-110			
SM 5310C	LCS 480-629854/2-A	TOC Result 1	64.66		mg/L	60.0	108	90-110			
SM 5310C	LCS 480-629854/2-A	TOC Result 2	65.48		mg/L	60.0	109	90-110			
Batch ID: 630732	Date: 06/18/2022 14:29										
						LCS Source: TOC_LCS_00213					
SM 5310C	LCS 480-630732/53	Total Organic Carbon - Duplicates	61.74		mg/L	60.0	103	90-110			
SM 5310C	LCS 480-630732/53	TOC Result 1	59.44		mg/L	60.0	99	90-110			
SM 5310C	LCS 480-630732/53	TOC Result 2	64.04		mg/L	60.0	107	90-110			
Batch ID: 631325	Date: 06/22/2022 18:32										
						LCS Source: TOC_LCS_00213					
SM 5310C	LCS 480-631325/29	Total Organic Carbon - Duplicates	61.85		mg/L	60.0	103	90-110			
SM 5310C	LCS 480-631325/29	TOC Result 1	61.86		mg/L	60.0	103	90-110			
SM 5310C	LCS 480-631325/29	TOC Result 2	61.85		mg/L	60.0	103	90-110			
Batch ID: 631325	Date: 06/23/2022 00:57										
						LCS Source: TOC_LCS_00213					
SM 5310C	LCS 480-631325/53	Total Organic Carbon - Duplicates	62.51		mg/L	60.0	104	90-110			
SM 5310C	LCS 480-631325/53	TOC Result 1	62.82		mg/L	60.0	105	90-110			
SM 5310C	LCS 480-631325/53	TOC Result 2	62.20		mg/L	60.0	104	90-110			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: Gallery 1

Method: 310.2 MDL Date: 04/13/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Alkalinity, Total		10	4

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: Gallery 1

Method: 310.2 XMDL Date: 04/13/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Alkalinity, Total		10	4

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: LACHAT2

Method: 335.4 MDL Date: 01/29/2010 00:00

Prep Method: Distill/CN

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Cyanide, Total		0.01	0.005

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: LACHAT2

Method: 335.4 XMDL Date: 01/29/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Cyanide, Total		0.01	0.005

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: LACHAT1

Method: 350.1 MDL Date: 01/12/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Ammonia		0.02	0.009

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: LACHAT1

Method: 350.1 XMDL Date: 01/12/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Ammonia		0.02	0.009

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: KONE1

Method: 351.2 MDL Date: 01/19/2021 13:21

Prep Method: 351.2

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Kjeldahl Nitrogen		0.2	0.187

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: KONE1

Method: 351.2 XMDL Date: 01/19/2021 13:21

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Kjeldahl Nitrogen		0.2	0.187

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: Genesys Spec 30

Method: 410.4 MDL Date: 11/08/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chemical Oxygen Demand		10	5

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: Genesys Spec 30

Method: 410.4 XMDL Date: 11/08/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chemical Oxygen Demand		10	5

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: Skalar_San+

Method: 420.4 MDL Date: 07/30/2019 13:22

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Phenolics, Total Recoverable		0.01	0.0035

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: Skalar_San+

Method: 420.4 XMDL Date: 07/30/2019 13:21

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Phenolics, Total Recoverable		0.01	0.0035

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: Genesys Spec 30

Method: 7196A MDL Date: 09/30/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chromium, hexavalent		0.01	0.005

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: Genesys Spec 30

Method: 7196A XMDL Date: 09/30/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chromium, hexavalent		0.01	0.005

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2120B RL Date: 06/25/2014 09:48

Analyte	Wavelength/ Mass	RL (Color Units)	
Color		5	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2120B XRL Date: 08/17/2009 09:56

Analyte	Wavelength/ Mass	XRL (Color Units)	
Color		5	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: IC-2

Method: 300.0 MDL Date: 05/13/2016 14:22

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Bromide		0.2	0.073

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: IC-2

Method: 300.0 XMDL Date: 05/13/2016 14:22

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Bromide		0.2	0.073

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: IC-5

Method: 300.0 MDL Date: 05/13/2016 14:22

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Bromide		0.2	0.073

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: IC-5

Method: 300.0 XMDL Date: 05/13/2016 14:22

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Bromide		0.2	0.073

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: LACHAT3

Method: 353.2 MDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrate as N		0.05	0.02

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: LACHAT3

Method: 353.2 XMDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrate as N		0.05	0.02

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: Gallery 1

Method: 9038 MDL Date: 01/07/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sulfate		5	1.5

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: Gallery 1

Method: 9038 XMDL Date: 01/07/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfate		5	1.5

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: Balance-3

Method: SM 2540C MDL Date: 08/17/2009 10:51

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Dissolved Solids		10	4

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: Balance-3

Method: SM 2540C XMDL Date: 08/17/2009 10:52

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Dissolved Solids		10	4

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: Gallery 1

Method: SM 4500 Cl- E MDL Date: 08/17/2009 10:18

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chloride		1	0.46

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: Gallery 1

Method: SM 4500 Cl- E XMDL Date: 08/17/2009 10:18

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chloride		1	0.46

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: KONE2

Method: SM 4500 Cl- E MDL Date: 08/17/2009 10:18

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chloride		1	0.46

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: KONE2

Method: SM 4500 Cl- E XMDL Date: 08/17/2009 10:18

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chloride		1	0.46

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: BOD1

Method: SM 5210B MDL Date: 08/17/2009 10:51

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Biochemical Oxygen Demand		2	2

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: BOD1

Method: SM 5210B XMDL Date: 08/17/2009 10:51

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Biochemical Oxygen Demand		2	2

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: NOEQUIP

Method: SM 5210B MDL Date: 08/17/2009 10:51

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Biochemical Oxygen Demand		2	2

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: NOEQUIP

Method: SM 5210B XMDL Date: 08/17/2009 10:51

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Biochemical Oxygen Demand		2	2

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: TOC10301

Method: SM 5310C MDL Date: 04/13/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
TOC Result 1		1	0.434
TOC Result 2		1	0.434
Total Organic Carbon - Duplicates		1	0.434

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: TOC10301

Method: SM 5310C XMDL Date: 04/13/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
TOC Result 1		1	0.434
TOC Result 2		1	0.434
Total Organic Carbon - Duplicates		1	0.434

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: TOC10303

Method: SM 5310C MDL Date: 04/13/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
TOC Result 1		1	0.434
TOC Result 2		1	0.434
Total Organic Carbon - Duplicates		1	0.434

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-198720-1

SDG Number: 198720

Matrix: Water Instrument ID: TOC10303

Method: SM 5310C XMDL Date: 04/13/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
TOC Result 1		1	0.434
TOC Result 2		1	0.434
Total Organic Carbon - Duplicates		1	0.434

11-IN
LINEAR RANGES
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No: 480-198720-1

SDG No.: 198720

Instrument ID: Genesys Spec 30 Date: 03/12/2020 10:22

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Chemical Oxygen Demand		150	410.4

11-IN
LINEAR RANGES
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No: 480-198720-1

SDG No.: 198720

Instrument ID: Genesys Spec 30 Date: 03/12/2020 10:22

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Chromium, hexavalent		0.4	7196A

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Prep Method: Distill/CN

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-629693/1-A	06/11/2022 14:15	629693		6	6
LCS 480-629693/2-A	06/11/2022 14:15	629693		6	6
LCS 480-629693/3-A	06/11/2022 14:15	629693		6	6
480-198720-1	06/11/2022 14:15	629693		6	6
480-198720-2	06/11/2022 14:15	629693		6	6
480-198720-3	06/11/2022 14:15	629693		6	6
480-198720-3 MS	06/11/2022 14:15	629693		6	6

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Prep Method: 351.2

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-629708/1-A	06/12/2022 12:55	629708		25	25
LCS 480-629708/2-A	06/12/2022 12:55	629708		25	25
480-198720-3	06/12/2022 12:55	629708		25	25

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Prep Method: 351.2

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-629826/1-A	06/13/2022 12:10	629826		25	25
LCS 480-629826/2-A	06/13/2022 12:10	629826		25	25
480-198813-1	06/13/2022 12:10	629826		25	25
480-198813-1 DU	06/13/2022 12:10	629826		25	25
480-198813-2	06/13/2022 12:10	629826		25	25
480-198813-2 MS	06/13/2022 12:10	629826		25	25
480-198813-3	06/13/2022 12:10	629826		25	25
480-198813-4	06/13/2022 12:10	629826		25	25
480-198813-5	06/13/2022 12:10	629826		25	25
480-198813-6	06/13/2022 12:10	629826		25	25
480-198813-7	06/13/2022 12:10	629826		25	25
480-198813-8	06/13/2022 12:10	629826		25	25
480-198813-9	06/13/2022 12:10	629826		25	25
480-198813-10	06/13/2022 12:10	629826		25	25

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Prep Method: 351.2

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-630167/1-A	06/15/2022 12:38	630167		25	25
LCS 480-630167/2-A	06/15/2022 12:38	630167		25	25
480-198720-1	06/15/2022 12:38	630167		25	25
480-198720-2	06/15/2022 12:38	630167		25	25
480-198720-4	06/15/2022 12:38	630167		25	25

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Prep Method: Distill/CN

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-630206/1-A	06/15/2022 15:30	630206		6	6
LCS 480-630206/2-A	06/15/2022 15:30	630206		6	6
LCS 480-630206/3-A	06/15/2022 15:30	630206		6	6
480-198720-4	06/15/2022 15:30	630206		6	6

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Prep Method: Distill/CN

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-630398/1-A	06/16/2022 21:15	630398		6	6
LCS 480-630398/2-A	06/16/2022 21:15	630398		6	6
480-198813-1	06/16/2022 21:15	630398		6	6
480-198813-2	06/16/2022 21:15	630398		6	6
480-198813-3	06/16/2022 21:15	630398		6	6
480-198813-4	06/16/2022 21:15	630398		6	6
480-198813-5	06/16/2022 21:15	630398		6	6
480-198813-6	06/16/2022 21:15	630398		6	6
480-198813-7	06/16/2022 21:15	630398		6	6
480-198813-8	06/16/2022 21:15	630398		6	6
480-198813-9	06/16/2022 21:15	630398		6	6

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Prep Method: Distill/CN

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-630516/1-A	06/17/2022 10:30	630516		6	6
LCS 480-630516/2-A	06/17/2022 10:30	630516		6	6
LCS 480-630516/3-A	06/17/2022 10:30	630516		6	6
480-198813-10	06/17/2022 10:30	630516		6	6
480-198813-10 MS	06/17/2022 10:30	630516		6	6

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Gallery 1 Method: 310.2

Start Date: 06/06/2022 23:20 End Date: 06/08/2022 17:06

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			23:20																				
ZZZZZZ			23:20																				
ZZZZZZ			23:20																				
ZZZZZZ			23:20																				
ZZZZZZ			23:21																				
ZZZZZZ			23:21																				
ZZZZZZ			23:21																				
ICB 480-629307/8	1		23:21	X																			
CCB 480-629307/9			14:00																				
CCV 480-629307/10			14:00																				
ZZZZZZ			14:00																				
ZZZZZZ			14:00																				
ICV 480-629307/13	1		14:00	X																			
CCB 480-629307/14	1		14:01	X																			
CCV 480-629307/15	1		14:01	X																			
ZZZZZZ			14:01																				
MB 480-629307/17	1	T	14:01	X																			
CCB 480-629307/18	1		16:25	X																			
CCV 480-629307/19	1		16:25	X																			
LCS 480-629307/20	1	T	16:25	X																			
MB 480-629307/21	1	T	16:26	X																			
ZZZZZZ			16:27																				
ZZZZZZ			16:27																				
ZZZZZZ			16:28																				
ZZZZZZ			16:28																				
CCB 480-629307/26	1		16:28	X																			
CCV 480-629307/27	1		16:28	X																			
ZZZZZZ			16:28																				
ZZZZZZ			16:28																				
ZZZZZZ			16:29																				
ZZZZZZ			16:29																				
ZZZZZZ			16:29																				
ZZZZZZ			16:29																				
ZZZZZZ			16:30																				
ZZZZZZ			16:30																				
ZZZZZZ			16:30																				
ZZZZZZ			16:30																				
CCB 480-629307/38			16:31																				
CCV 480-629307/39			16:31																				
ZZZZZZ			16:31																				
ZZZZZZ			16:31																				
ZZZZZZ			16:31																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Gallery 1 Method: 310.2

Start Date: 06/06/2022 23:20 End Date: 06/08/2022 17:06

Lab Sample ID	D/F	Type	Time	Analytes																			
				Alk																			
CCB 480-629307/43			16:32																				
CCV 480-629307/44			16:32																				
ZZZZZZ			16:32																				
ZZZZZZ			16:32																				
ZZZZZZ			16:33																				
ZZZZZZ			16:33																				
CCB 480-629307/49	1		16:34	X																			
ZZZZZZ			16:34																				
ZZZZZZ			16:34																				
ZZZZZZ			16:35																				
CCV 480-629307/53	1		16:35	X																			
ZZZZZZ			16:35																				
ZZZZZZ			16:35																				
MB 480-629307/56	1	T	16:36	X																			
CCB 480-629307/57	1		16:36	X																			
CCV 480-629307/58	1		16:36	X																			
LCS 480-629307/59	1	T	16:36	X																			
480-198720-2	3	T	16:37	X																			
480-198720-3	3	T	16:37	X																			
MB 480-629307/62	1	T	16:37	X																			
CCB 480-629307/63	1		16:39	X																			
CCV 480-629307/64	1		16:39	X																			
LCS 480-629307/65	1	T	16:39	X																			
MB 480-629307/66	1	T	16:39	X																			
480-198720-4	2	T	16:46	X																			
CCB 480-629307/68	1		16:47	X																			
CCV 480-629307/69	1		16:47	X																			
ZZZZZZ			16:47																				
ZZZZZZ			16:47																				
CCB 480-629307/72			16:48																				
CCV 480-629307/73			16:48																				
ZZZZZZ			16:48																				
ZZZZZZ			16:49																				
ZZZZZZ			16:49																				
CCB 480-629307/77			16:50																				
CCV 480-629307/78	1		16:50	X																			
ZZZZZZ			16:50																				
MB 480-629307/80	1	T	16:50	X																			
ZZZZZZ			16:53																				
CCB 480-629307/82	1		16:53	X																			
CCV 480-629307/83	1		16:53	X																			
LCS 480-629307/84	1	T	16:54	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Gallery 1 Method: 310.2

Start Date: 06/06/2022 23:20 End Date: 06/08/2022 17:06

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
MB 480-629307/85	1	T	16:54	X																			
480-198720-1	2	T	16:55	X																			
CCB 480-629307/87	1		16:55	X																			
CCV 480-629307/88	1		16:55	X																			
ZZZZZZ			16:55																				
ZZZZZZ			16:55																				
ZZZZZZ			17:04																				
CCB 480-629307/92			17:05																				
CCV 480-629307/93			17:05																				
ZZZZZZ			17:05																				
ZZZZZZ			17:05																				
ZZZZZZ			17:05																				
ZZZZZZ			17:06																				
CCB 480-629307/98			17:06																				
CCV 480-629307/99			17:06																				
ZZZZZZ			17:06																				
ZZZZZZ			17:06																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Gallery 1 Method: 310.2

Start Date: 06/21/2022 11:59 End Date: 06/21/2022 15:54

Lab Sample ID	D/F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			11:59																				
ZZZZZZ			11:59																				
ZZZZZZ			11:59																				
ZZZZZZ			12:00																				
ZZZZZZ			12:00																				
ZZZZZZ			12:00																				
ZZZZZZ			12:00																				
ICB 480-630965/8	1		12:00	X																			
CCB 480-630965/9			12:13																				
CCV 480-630965/10			12:13																				
ZZZZZZ			12:14																				
ZZZZZZ			12:14																				
ICV 480-630965/13	1		12:14	X																			
CCB 480-630965/14			12:14																				
CCV 480-630965/15			12:14																				
ZZZZZZ			12:15																				
ZZZZZZ			12:15																				
CCB 480-630965/18	1		12:33	X																			
CCV 480-630965/19	1		12:33	X																			
ZZZZZZ			12:33																				
MB 480-630965/21	1	T	12:33	X																			
ZZZZZZ			12:34																				
ZZZZZZ			12:34																				
ZZZZZZ			12:35																				
ZZZZZZ			12:35																				
ZZZZZZ			12:35																				
CCB 480-630965/27	1		12:36	X																			
CCV 480-630965/28	1		12:36	X																			
LCS 480-630965/29	1	T	12:36	X																			
MB 480-630965/30	1	T	12:36	X																			
ZZZZZZ			12:36																				
ZZZZZZ			12:37																				
ZZZZZZ			12:37																				
480-198813-1	3	T	12:37	X																			
480-198813-2	5	T	12:37	X																			
480-198813-3	10	T	12:38	X																			
CCB 480-630965/37	1		12:38	X																			
CCV 480-630965/38	1		12:38	X																			
LCS 480-630965/39	1	T	12:38	X																			
MB 480-630965/40	1	T	12:38	X																			
480-198813-5	3	T	12:39	X																			
480-198813-6	10	T	12:40	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Gallery 1 Method: 310.2

Start Date: 06/21/2022 11:59 End Date: 06/21/2022 15:54

Lab Sample ID	D/F	Type	Time	Analytes																			
				Alk																			
480-198813-7	3	T	12:40	X																			
480-198813-8	5	T	12:40	X																			
480-198813-9	3	T	12:41	X																			
CCB 480-630965/46	1		12:41	X																			
CCV 480-630965/47	1		12:41	X																			
480-198813-10	5	T	12:42	X																			
ZZZZZZ			12:42																				
ZZZZZZ			12:42																				
ZZZZZZ			12:42																				
ZZZZZZ			12:43																				
ZZZZZZ			12:43																				
ZZZZZZ			12:43																				
ZZZZZZ			12:43																				
ZZZZZZ			12:44																				
CCB 480-630965/57	1		12:44	X																			
CCV 480-630965/58	1		12:44	X																			
ZZZZZZ			12:44																				
ZZZZZZ			12:45																				
CCB 480-630965/61	1		12:49	X																			
CCV 480-630965/62	1		12:50	X																			
ZZZZZZ			12:50																				
MB 480-630965/64	1	T	12:50	X																			
ZZZZZZ			12:50																				
ZZZZZZ			12:51																				
ZZZZZZ			12:51																				
ZZZZZZ			12:51																				
ZZZZZZ			12:51																				
ZZZZZZ			12:53																				
ZZZZZZ			12:53																				
ZZZZZZ			12:53																				
CCB 480-630965/73	1		13:16	X																			
CCV 480-630965/74	1		13:16	X																			
LCS 480-630965/75	1	T	13:16	X																			
MB 480-630965/76	1	T	13:17	X																			
480-198720-1 MS	3	T	13:17	X																			
480-198720-1 MSD	3	T	13:17	X																			
480-198720-1	3	T	13:18	X																			
ZZZZZZ			13:18																				
ZZZZZZ			13:18																				
ZZZZZZ			13:18																				
ZZZZZZ			13:19																				
ZZZZZZ			13:19																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Gallery 1 Method: 310.2

Start Date: 06/21/2022 11:59 End Date: 06/21/2022 15:54

Lab Sample ID	D/F	Type	Time	Analytes																			
				Alk																			
CCB 480-630965/85	1		13:19	X																			
CCV 480-630965/86	1		13:19	X																			
LCS 480-630965/87	1	T	13:19	X																			
MB 480-630965/88	1	T	13:20	X																			
ZZZZZZ			13:20																				
ZZZZZZ			13:20																				
480-198813-4	2	T	13:20	X																			
ZZZZZZ			13:21																				
ZZZZZZ			13:22																				
CCB 480-630965/94	1		13:22	X																			
CCV 480-630965/95	1		13:22	X																			
ZZZZZZ			13:22																				
ZZZZZZ			13:23																				
ZZZZZZ			13:23																				
ZZZZZZ			13:24																				
ZZZZZZ			13:24																				
ZZZZZZ			13:24																				
ZZZZZZ			13:24																				
CCB 480-630965/103			13:33																				
CCV 480-630965/104			13:33																				
ZZZZZZ			13:33																				
ZZZZZZ			13:33																				
ZZZZZZ			13:34																				
CCB 480-630965/108			13:34																				
CCV 480-630965/109			13:34																				
ZZZZZZ			13:34																				
ZZZZZZ			13:38																				
ZZZZZZ			13:38																				
CCB 480-630965/113			13:39																				
ZZZZZZ			13:39																				
CCV 480-630965/115			13:39																				
ZZZZZZ			13:39																				
ZZZZZZ			13:40																				
CCB 480-630965/118			14:40																				
CCV 480-630965/119			14:41																				
ZZZZZZ			14:41																				
ZZZZZZ			14:41																				
ZZZZZZ			14:41																				
ZZZZZZ			14:42																				
ZZZZZZ			14:42																				
ZZZZZZ			14:42																				
ZZZZZZ			14:43																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Gallery 1 Method: 310.2

Start Date: 06/21/2022 11:59 End Date: 06/21/2022 15:54

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			14:43																				
ZZZZZZ			14:43																				
CCB 480-630965/129			14:43																				
CCV 480-630965/130			14:44																				
ZZZZZZ			14:44																				
ZZZZZZ			14:44																				
CCB 480-630965/133			14:47																				
CCV 480-630965/134			14:47																				
ZZZZZZ			14:48																				
ZZZZZZ			14:48																				
ZZZZZZ			14:50																				
ZZZZZZ			14:50																				
ZZZZZZ			14:51																				
ZZZZZZ			14:51																				
CCB 480-630965/141			14:52																				
CCV 480-630965/142			14:52																				
ZZZZZZ			14:52																				
ZZZZZZ			14:52																				
ZZZZZZ			14:52																				
CCB 480-630965/146			14:53																				
CCV 480-630965/147			14:55																				
ZZZZZZ			14:55																				
ZZZZZZ			14:55																				
ZZZZZZ			14:56																				
ZZZZZZ			14:56																				
CCB 480-630965/152			14:56																				
CCV 480-630965/153			14:56																				
ZZZZZZ			14:57																				
ZZZZZZ			14:57																				
CCB 480-630965/156			15:06																				
CCV 480-630965/157			15:06																				
ZZZZZZ			15:06																				
ZZZZZZ			15:06																				
ZZZZZZ			15:06																				
ZZZZZZ			15:07																				
ZZZZZZ			15:07																				
ZZZZZZ			15:07																				
ZZZZZZ			15:07																				
ZZZZZZ			15:08																				
CCB 480-630965/166			15:08																				
CCV 480-630965/167			15:08																				
ZZZZZZ			15:08																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Gallery 1 Method: 310.2

Start Date: 06/21/2022 11:59 End Date: 06/21/2022 15:54

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			15:08																				
ZZZZZZ			15:09																				
ZZZZZZ			15:09																				
ZZZZZZ			15:09																				
ZZZZZZ			15:09																				
ZZZZZZ			15:09																				
ZZZZZZ			15:10																				
ZZZZZZ			15:10																				
CCB 480-630965/177			15:10																				
CCV 480-630965/178			15:10																				
ZZZZZZ			15:10																				
ZZZZZZ			15:10																				
ZZZZZZ			15:11																				
CCB 480-630965/182			15:11																				
CCV 480-630965/183			15:12																				
ZZZZZZ			15:12																				
ZZZZZZ			15:12																				
ZZZZZZ			15:12																				
ZZZZZZ			15:13																				
ZZZZZZ			15:13																				
ZZZZZZ			15:14																				
ZZZZZZ			15:14																				
ZZZZZZ			15:15																				
ZZZZZZ			15:16																				
ZZZZZZ			15:16																				
CCB 480-630965/194			15:18																				
CCV 480-630965/195			15:18																				
ZZZZZZ			15:19																				
ZZZZZZ			15:19																				
ZZZZZZ			15:19																				
ZZZZZZ			15:19																				
CCB 480-630965/200			15:20																				
CCV 480-630965/201			15:20																				
ZZZZZZ			15:20																				
ZZZZZZ			15:20																				
ZZZZZZ			15:22																				
ZZZZZZ			15:22																				
ZZZZZZ			15:22																				
ZZZZZZ			15:23																				
ZZZZZZ			15:23																				
ZZZZZZ			15:23																				
ZZZZZZ			15:23																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Gallery 1 Method: 310.2

Start Date: 06/21/2022 11:59 End Date: 06/21/2022 15:54

Lab Sample ID	D/F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			15:23																				
CCB 480-630965/212	1		15:24	X																			
CCV 480-630965/213	1		15:24	X																			
ZZZZZZ			15:24																				
MB 480-630965/215	1	T	15:24	X																			
ZZZZZZ			15:24																				
ZZZZZZ			15:24																				
CCB 480-630965/218	1		15:24	X																			
CCV 480-630965/219	1		15:25	X																			
LCS 480-630965/220	1	T	15:25	X																			
MB 480-630965/221	1	T	15:25	X																			
ZZZZZZ			15:31																				
ZZZZZZ			15:31																				
ZZZZZZ			15:32																				
CCB 480-630965/225	1		15:32	X																			
CCV 480-630965/226	1		15:32	X																			
ZZZZZZ			15:32																				
ZZZZZZ			15:32																				
ZZZZZZ			15:41																				
CCB 480-630965/230			15:41																				
CCV 480-630965/231			15:41																				
ZZZZZZ			15:42																				
ZZZZZZ			15:42																				
CCB 480-630965/234			15:42																				
ZZZZZZ			15:42																				
ZZZZZZ			15:43																				
ZZZZZZ			15:53																				
CCB 480-630965/238			15:54																				
CCV 480-630965/239			15:54																				
ZZZZZZ			15:54																				
ZZZZZZ			15:54																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: LACHAT2 Method: 335.4

Start Date: 06/13/2022 10:42 End Date: 06/13/2022 11:24

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
CCV 480-629819/1	1		10:42	X																			
CCB 480-629819/2	1		10:43	X																			
MB 480-629693/1-A	1	T	10:45	X																			
LCS 480-629693/2-A	1	T	10:46	X																			
LCS 480-629693/3-A	1	T	10:48	X																			
ZZZZZZ			10:49																				
ZZZZZZ			10:51																				
ZZZZZZ			10:52																				
ZZZZZZ			10:54																				
ZZZZZZ			10:55																				
ZZZZZZ			10:56																				
ZZZZZZ			10:58																				
CCV 480-629819/13	1		10:59	X																			
CCB 480-629819/14	1		11:01	X																			
ZZZZZZ			11:02																				
ZZZZZZ			11:04																				
ZZZZZZ			11:05																				
ZZZZZZ			11:07																				
ZZZZZZ			11:08																				
ZZZZZZ			11:09																				
ZZZZZZ			11:11																				
ZZZZZZ			11:12																				
480-198720-1	1	T	11:14	X																			
480-198720-2	1	T	11:15	X																			
CCV 480-629819/25	1		11:17	X																			
CCB 480-629819/26	1		11:18	X																			
480-198720-3	1	T	11:20	X																			
480-198720-3 MS	1	T	11:21	X																			
CCV 480-629819/29	1		11:22	X																			
CCB 480-629819/30	1		11:24	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: LACHAT2 Method: 335.4

Start Date: 06/15/2022 18:06 End Date: 06/15/2022 18:48

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
CCV 480-630238/1	1		18:06	X																			
CCB 480-630238/2	1		18:07	X																			
MB 480-630206/1-A	1	T	18:09	X																			
LCS 480-630206/2-A	1	T	18:10	X																			
LCS 480-630206/3-A	1	T	18:12	X																			
ZZZZZZ			18:13																				
ZZZZZZ			18:15																				
ZZZZZZ			18:16																				
ZZZZZZ			18:18																				
ZZZZZZ			18:19																				
ZZZZZZ			18:20																				
ZZZZZZ			18:22																				
CCV 480-630238/13	1		18:23	X																			
CCB 480-630238/14	1		18:25	X																			
ZZZZZZ			18:26																				
ZZZZZZ			18:28																				
ZZZZZZ			18:29																				
ZZZZZZ			18:30																				
ZZZZZZ			18:32																				
ZZZZZZ			18:33																				
ZZZZZZ			18:35																				
ZZZZZZ			18:36																				
480-198720-4	1	T	18:38	X																			
ZZZZZZ			18:39																				
CCV 480-630238/25	1		18:41	X																			
CCB 480-630238/26	1		18:42	X																			
ZZZZZZ			18:43																				
ZZZZZZ			18:45																				
CCV 480-630238/29	1		18:46	X																			
CCB 480-630238/30	1		18:48	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: LACHAT2 Method: 335.4

Start Date: 06/17/2022 08:46 End Date: 06/17/2022 09:28

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
CCV 480-630471/1	1		08:46	X																			
CCB 480-630471/2	1		08:47	X																			
MB 480-630398/1-A	1	T	08:49	X																			
LCS 480-630398/2-A	1	T	08:50	X																			
ZZZZZZ			08:52																				
ZZZZZZ			08:53																				
ZZZZZZ			08:55																				
ZZZZZZ			08:56																				
ZZZZZZ			08:57																				
ZZZZZZ			08:59																				
ZZZZZZ			09:00																				
ZZZZZZ			09:02																				
CCV 480-630471/13	1		09:03	X																			
CCB 480-630471/14	1		09:05	X																			
ZZZZZZ			09:06																				
480-198813-1	1	T	09:08	X																			
480-198813-2	1	T	09:09	X																			
480-198813-3	1	T	09:10	X																			
480-198813-4	1	T	09:12	X																			
480-198813-5	1	T	09:13	X																			
480-198813-6	1	T	09:15	X																			
480-198813-7	1	T	09:16	X																			
480-198813-8	1	T	09:18	X																			
480-198813-9	1	T	09:19	X																			
CCV 480-630471/25	1		09:21	X																			
CCB 480-630471/26	1		09:22	X																			
ZZZZZZ			09:23																				
ZZZZZZ			09:25																				
CCV 480-630471/29			09:26																				
CCB 480-630471/30			09:28																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: LACHAT2 Method: 335.4

Start Date: 06/17/2022 12:58 End Date: 06/17/2022 13:40

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
CCV 480-630539/1	1		12:58	X																			
CCB 480-630539/2	1		13:00	X																			
MB 480-630516/1-A	1	T	13:01	X																			
LCS 480-630516/2-A	1	T	13:03	X																			
LCS 480-630516/3-A	1	T	13:04	X																			
ZZZZZZ			13:05																				
ZZZZZZ			13:07																				
ZZZZZZ			13:08																				
480-198813-10	1	T	13:10	X																			
480-198813-10 MS	1	T	13:11	X																			
ZZZZZZ			13:13																				
ZZZZZZ			13:14																				
CCV 480-630539/13	1		13:16	X																			
CCB 480-630539/14	1		13:17	X																			
ZZZZZZ			13:18																				
ZZZZZZ			13:20																				
ZZZZZZ			13:21																				
ZZZZZZ			13:23																				
ZZZZZZ			13:24																				
ZZZZZZ			13:26																				
ZZZZZZ			13:27																				
ZZZZZZ			13:28																				
ZZZZZZ			13:30																				
ZZZZZZ			13:31																				
CCV 480-630539/25	1		13:33	X																			
CCB 480-630539/26	1		13:34	X																			
ZZZZZZ			13:36																				
ZZZZZZ			13:37																				
CCV 480-630539/29	1		13:39	X																			
CCB 480-630539/30	1		13:40	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: LACHAT1 Method: 350.1

Start Date: 06/08/2022 08:47 End Date: 06/08/2022 09:26

Lab Sample ID	D/F	Type	Time	Analytes																			
				NH3																			
CCV 480-629188/1	1		08:47	X																			
CCB 480-629188/2	1		08:48	X																			
MB 480-629188/3	1	T	08:49	X																			
LCS 480-629188/4	1	T	08:50	X																			
ZZZZZZ			08:51																				
ZZZZZZ			08:52																				
ZZZZZZ			08:53																				
ZZZZZZ			08:54																				
ZZZZZZ			08:55																				
480-198720-1	1	T	08:57	X																			
480-198720-2	1	T	08:58	X																			
480-198720-3	1	T	08:59	X																			
CCV 480-629188/13	1		09:00	X																			
CCB 480-629188/14	1		09:01	X																			
480-198720-4	1	T	09:02	X																			
480-198720-4 DU	1	T	09:03	X																			
480-198720-4 MS	1	T	09:04	X																			
ZZZZZZ			09:05																				
ZZZZZZ			09:06																				
ZZZZZZ			09:08																				
ZZZZZZ			09:09																				
ZZZZZZ			09:10																				
ZZZZZZ			09:11																				
ZZZZZZ			09:12																				
CCV 480-629188/25	1		09:13	X																			
CCB 480-629188/26	1		09:14	X																			
ZZZZZZ			09:15																				
ZZZZZZ			09:16																				
ZZZZZZ			09:17																				
ZZZZZZ			09:19																				
ZZZZZZ			09:20																				
ZZZZZZ			09:21																				
ZZZZZZ			09:22																				
ZZZZZZ			09:23																				
ZZZZZZ			09:24																				
ZZZZZZ			09:25																				
CCV 480-629188/37			09:26																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: LACHAT1 Method: 350.1

Start Date: 06/10/2022 08:50 End Date: 06/10/2022 10:22

Lab Sample ID	D/F	Type	Time	Analytes																			
				NH3																			
CCV 480-629604/1	1		08:50	X																			
CCB 480-629604/2	1		08:51	X																			
MB 480-629604/3	1	T	08:52	X																			
LCS 480-629604/4	1	T	08:54	X																			
ZZZZZZ			08:55																				
ZZZZZZ			08:56																				
ZZZZZZ			08:57																				
480-198813-1	1	T	08:58	X																			
480-198813-1 MS	1	T	08:59	X																			
480-198813-2	5	T	09:00	X																			
ZZZZZZ			09:01																				
480-198813-4	1	T	09:02	X																			
CCV 480-629604/13	1		09:03	X																			
CCB 480-629604/14	1		09:05	X																			
480-198813-5	1	T	09:06	X																			
480-198813-5 DU	1	T	09:07	X																			
480-198813-5 MS	1	T	09:08	X																			
480-198813-6	1	T	09:09	X																			
480-198813-7	1	T	09:10	X																			
480-198813-8	1	T	09:11	X																			
480-198813-9	1	T	09:12	X																			
480-198813-10	1	T	09:13	X																			
ZZZZZZ			09:14																				
ZZZZZZ			09:16																				
CCV 480-629604/25	1		09:17	X																			
CCB 480-629604/26	1		09:18	X																			
ZZZZZZ			09:19																				
ZZZZZZ			09:20																				
ZZZZZZ			09:21																				
ZZZZZZ			09:22																				
ZZZZZZ			09:23																				
ZZZZZZ			09:24																				
ZZZZZZ			09:26																				
ZZZZZZ			09:27																				
ZZZZZZ			09:28																				
ZZZZZZ			09:29																				
CCV 480-629604/37			09:30																				
CCB 480-629604/38			09:31																				
ZZZZZZ			09:32																				
ZZZZZZ			09:33																				
ZZZZZZ			09:34																				
ZZZZZZ			09:35																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: LACHAT1 Method: 350.1

Start Date: 06/10/2022 08:50 End Date: 06/10/2022 10:22

Lab Sample ID	D / F	Type	Time	Analytes																			
				NH3																			
ZZZZZZ			09:36																				
ZZZZZZ			09:38																				
ZZZZZZ			09:39																				
ZZZZZZ			09:40																				
ZZZZZZ			09:41																				
ZZZZZZ			09:42																				
CCV 480-629604/49	1		09:43	X																			
CCB 480-629604/50	1		09:44	X																			
MB 480-629604/51	1	T	09:45	X																			
LCS 480-629604/52	1	T	09:46	X																			
ZZZZZZ			09:48																				
ZZZZZZ			09:49																				
ZZZZZZ			09:50																				
ZZZZZZ			09:51																				
ZZZZZZ			09:52																				
ZZZZZZ			09:53																				
ZZZZZZ			09:54																				
ZZZZZZ			09:55																				
CCV 480-629604/61	1		09:56	X																			
CCB 480-629604/62	1		09:57	X																			
ZZZZZZ			09:59																				
ZZZZZZ			10:00																				
ZZZZZZ			10:01																				
ZZZZZZ			10:02																				
ZZZZZZ			10:03																				
480-198813-3	1	T	10:04	X																			
ZZZZZZ			10:05																				
ZZZZZZ			10:06																				
ZZZZZZ			10:07																				
ZZZZZZ			10:08																				
CCV 480-629604/73	1		10:10	X																			
CCB 480-629604/74	1		10:11	X																			
ZZZZZZ			10:12																				
ZZZZZZ			10:13																				
ZZZZZZ			10:14																				
ZZZZZZ			10:15																				
ZZZZZZ			10:16																				
ZZZZZZ			10:17																				
ZZZZZZ			10:18																				
ZZZZZZ			10:19																				
CCV 480-629604/83			10:21																				
CCB 480-629604/84			10:22																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: LACHAT1 Method: 350.1

Start Date: 06/10/2022 08:50 End Date: 06/10/2022 10:22

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: KONE1 Method: 351.2

Start Date: 06/13/2022 06:26 End Date: 06/13/2022 10:30

Lab Sample ID	D / F	Type	Time	Analytes																			
				TKN																			
CCV 480-629788/1	1		06:26	X																			
CCB 480-629788/2	1		06:26	X																			
ZZZZZZ			07:09																				
ZZZZZZ			07:09																				
MB 480-629708/1-A	1	T	07:09	X																			
CCV 480-629788/6	1		07:11	X																			
CCB 480-629788/7	1		07:11	X																			
ZZZZZZ			07:48																				
ZZZZZZ			07:48																				
ZZZZZZ			07:48																				
ZZZZZZ			07:48																				
ZZZZZZ			07:48																				
ZZZZZZ			07:48																				
ZZZZZZ			07:48																				
CCV 480-629788/15			07:57																				
CCB 480-629788/16			07:57																				
ZZZZZZ			07:57																				
ZZZZZZ			07:57																				
ZZZZZZ			07:57																				
ZZZZZZ			07:57																				
ZZZZZZ			07:57																				
ZZZZZZ			07:57																				
ZZZZZZ			07:57																				
ZZZZZZ			07:57																				
CCV 480-629788/25			08:06																				
CCB 480-629788/26			08:06																				
ZZZZZZ			08:06																				
ZZZZZZ			08:06																				
ZZZZZZ			08:06																				
ZZZZZZ			08:06																				
ZZZZZZ			08:07																				
ZZZZZZ			08:07																				
ZZZZZZ			08:07																				
ZZZZZZ			08:07																				
CCV 480-629788/35	1		08:15	X																			
CCB 480-629788/36	1		08:15	X																			
480-198720-3	1	T	08:15	X																			
ZZZZZZ			08:15																				
ZZZZZZ			08:15																				
ZZZZZZ			08:15																				
CCV 480-629788/41	1		08:18	X																			
CCB 480-629788/42	1		08:18	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: KONE1 Method: 351.2

Start Date: 06/13/2022 06:26 End Date: 06/13/2022 10:30

Lab Sample ID	D / F	Type	Time	Analytes																			
				TKN																			
CCV 480-629788/43			09:10																				
CCB 480-629788/44			09:10																				
CCV 480-629788/45	1		10:12	X																			
CCB 480-629788/46	1		10:12	X																			
LCS 480-629708/2-A	2	T	10:12	X																			
ZZZZZZ			10:12																				
ZZZZZZ			10:12																				
ZZZZZZ			10:12																				
ZZZZZZ			10:20																				
ZZZZZZ			10:20																				
ZZZZZZ			10:21																				
ZZZZZZ			10:21																				
ZZZZZZ			10:21																				
ZZZZZZ			10:21																				
CCV 480-629788/57	1		10:28	X																			
CCB 480-629788/58	1		10:28	X																			
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				
CCV 480-629788/61			10:30																				
CCB 480-629788/62			10:30																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: KONE1 Method: 351.2

Start Date: 06/14/2022 08:33 End Date: 06/14/2022 10:49

Lab Sample ID	D/F	Type	Time	Analytes																			
				TKN																			
CCV 480-629963/1	1		08:33	X																			
CCB 480-629963/2	1		08:33	X																			
MB 480-629826/1-A	1	T	08:33	X																			
LCS 480-629826/2-A	1	T	08:33	X																			
ZZZZZZ			08:33																				
ZZZZZZ			08:33																				
CCV 480-629963/7	1		08:36	X																			
CCB 480-629963/8	1		08:36	X																			
480-198813-1	1	T	08:59	X																			
480-198813-1 DU	1	T	08:59	X																			
ZZZZZZ			08:59																				
ZZZZZZ			08:59																				
480-198813-3	1	T	08:59	X																			
480-198813-4	1	T	08:59	X																			
480-198813-5	1	T	08:59	X																			
480-198813-6	1	T	08:59	X																			
CCV 480-629963/17	1		09:08	X																			
CCB 480-629963/18	1		09:08	X																			
480-198813-7	1	T	09:08	X																			
480-198813-8	1	T	09:08	X																			
480-198813-9	1	T	09:08	X																			
480-198813-10	1	T	09:08	X																			
ZZZZZZ			09:08																				
ZZZZZZ			09:08																				
ZZZZZZ			09:08																				
ZZZZZZ			09:08																				
ZZZZZZ			09:08																				
CCV 480-629963/28	1		09:17	X																			
CCB 480-629963/29	1		09:17	X																			
ZZZZZZ			09:17																				
ZZZZZZ			09:17																				
ZZZZZZ			09:17																				
ZZZZZZ			09:17																				
ZZZZZZ			09:17																				
ZZZZZZ			09:17																				
ZZZZZZ			09:17																				
ZZZZZZ			09:17																				
ZZZZZZ			09:17																				
ZZZZZZ			09:17																				
CCV 480-629963/40			09:25																				
CCB 480-629963/41			09:25																				
CCV 480-629963/42	1		10:16	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: KONE1 Method: 351.2

Start Date: 06/14/2022 08:33 End Date: 06/14/2022 10:49

Lab Sample ID	D / F	Type	Time	Analytes																				
				TKN																				
CCB 480-629963/43	1		10:16	X																				
ZZZZZZ			10:16																					
ZZZZZZ			10:16																					
ZZZZZZ			10:16																					
ZZZZZZ			10:16																					
ZZZZZZ			10:16																					
ZZZZZZ			10:16																					
ZZZZZZ			10:16																					
480-198813-2	2	T	10:24	X																				
480-198813-2 MS	5	T	10:24	X																				
CCV 480-629963/53	1		10:24	X																				
CCB 480-629963/54	1		10:24	X																				
CCV 480-629963/55			10:26																					
CCB 480-629963/56			10:26																					
ZZZZZZ			10:46																					
ZZZZZZ			10:46																					
CCV 480-629963/59			10:49																					
CCB 480-629963/60			10:49																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: KONE1 Method: 351.2

Start Date: 06/16/2022 07:33 End Date: 06/16/2022 09:32

Lab Sample ID	D/F	Type	Time	Analytes																			
				TKN																			
IC 480-630270/1			07:33	X																			
IC 480-630270/2			07:33	X																			
ICV 480-630270/3	1		07:33	X																			
ICB 480-630270/4	1		07:33	X																			
CCV 480-630270/5	1		07:51	X																			
CCB 480-630270/6	1		07:51	X																			
MB 480-630167/1-A	1	T	07:51	X																			
LCS 480-630167/2-A	1	T	07:51	X																			
ZZZZZZ			07:51																				
CCV 480-630270/10	1		07:53	X																			
CCB 480-630270/11	1		07:53	X																			
ZZZZZZ			08:25																				
ZZZZZZ			08:25																				
ZZZZZZ			08:25																				
ZZZZZZ			08:25																				
ZZZZZZ			08:25																				
ZZZZZZ			08:25																				
480-198720-1	1	T	08:25	X																			
480-198720-2	1	T	08:25	X																			
480-198720-4	1	T	08:25	X																			
ZZZZZZ			08:25																				
CCV 480-630270/22	1		08:34	X																			
CCB 480-630270/23	1		08:34	X																			
ZZZZZZ			08:34																				
ZZZZZZ			08:34																				
ZZZZZZ			08:34																				
ZZZZZZ			08:34																				
ZZZZZZ			08:34																				
ZZZZZZ			08:34																				
CCV 480-630270/30			08:43																				
CCB 480-630270/31			08:43																				
ZZZZZZ			08:43																				
ZZZZZZ			08:43																				
ZZZZZZ			08:43																				
ZZZZZZ			08:43																				
ZZZZZZ			08:43																				
ZZZZZZ			08:43																				
CCV 480-630270/38			08:52																				
CCB 480-630270/39			08:52																				
ZZZZZZ			08:52																				
ZZZZZZ			08:52																				
ZZZZZZ			08:52																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: KONE1 Method: 351.2

Start Date: 06/16/2022 07:33 End Date: 06/16/2022 09:32

Lab Sample ID	D / F	Type	Time	Analytes																			
				TKN																			
ZZZZZZ			08:52																				
ZZZZZZ			08:52																				
ZZZZZZ			08:52																				
ZZZZZZ			08:52																				
ZZZZZZ			08:52																				
ZZZZZZ			08:52																				
CCV 480-630270/49			08:54																				
CCB 480-630270/50			08:54																				
CCV 480-630270/51			09:01																				
CCB 480-630270/52			09:01																				
ZZZZZZ			09:23																				
ZZZZZZ			09:23																				
ZZZZZZ			09:23																				
ZZZZZZ			09:23																				
ZZZZZZ			09:30																				
ZZZZZZ			09:30																				
ZZZZZZ			09:30																				
ZZZZZZ			09:30																				
CCV 480-630270/61			09:32																				
CCB 480-630270/62			09:32																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Genesys Spec 30 Method: 410.4

Start Date: 06/14/2022 18:00 End Date: 06/14/2022 22:19

Lab Sample ID	D/F	Type	Time	Analytes																			
				COD																			
CCV 480-630049/1	1		18:00	X																			
CCB 480-630049/2	1		18:00	X																			
MB 480-630049/3	1	T	18:00	X																			
LCS 480-630049/4	1	T	18:00	X																			
480-198720-4	1	T	18:00	X																			
480-198720-4 MS	1	T	18:00	X																			
480-198720-4 MSD	1	T	18:00	X																			
480-198720-1	1	T	18:00	X																			
480-198720-2	1	T	18:00	X																			
480-198720-3	1	T	18:00	X																			
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
CCV 480-630049/13	1		18:00	X																			
CCB 480-630049/14	1		18:00	X																			
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
CCV 480-630049/25	1		18:00	X																			
CCB 480-630049/26	1		18:00	X																			
MB 480-630049/27	1	T	18:00	X																			
LCS 480-630049/28	1	T	18:00	X																			
480-198813-6	1	T	18:00	X																			
480-198813-6 MS	1	T	18:00	X																			
480-198813-6 MSD	1	T	18:00	X																			
480-198813-1	1	T	18:00	X																			
480-198813-2	1	T	18:00	X																			
480-198813-3	1	T	18:00	X																			
480-198813-4	1	T	18:00	X																			
480-198813-5	1	T	18:00	X																			
CCV 480-630049/37	1		18:00	X																			
CCB 480-630049/38	1		18:00	X																			
480-198813-9	1	T	18:00	X																			
480-198813-9 MS	1	T	18:00	X																			
480-198813-7	1	T	18:00	X																			
480-198813-8	1	T	18:00	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Genesys Spec 30 Method: 410.4

Start Date: 06/14/2022 18:00 End Date: 06/14/2022 22:19

Lab Sample ID	D / F	Type	Time	Analytes																				
				COD																				
480-198813-10	1	T	18:00	X																				
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
CCV 480-630049/49	1		18:00	X																				
CCB 480-630049/50	1		18:00	X																				
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
CCV 480-630049/61			18:00																					
CCB 480-630049/62			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
CCV 480-630049/73			18:00																					
CCB 480-630049/74			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					
ZZZZZZ			18:00																					

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Genesys Spec 30 Method: 410.4

Start Date: 06/14/2022 18:00 End Date: 06/14/2022 22:19

Lab Sample ID	D / F	Type	Time	Analytes																			
				COD																			
CCV 480-630049/85			18:00																				
CCB 480-630049/86			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			22:19																				
CCV 480-630049/102			22:19																				
CCB 480-630049/103			22:19																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Skalar_San+ Method: 420.4

Start Date: 06/13/2022 07:33 End Date: 06/13/2022 13:46

Lab Sample ID	D / F	Type	Time	Analytes																			
				PhenT																			
ZZZZZZ			07:33																				
ZZZZZZ			07:36																				
ZZZZZZ			07:42																				
IC 480-629847/4			07:46	X																			
IC 480-629847/5			07:49	X																			
IC 480-629847/6			07:53	X																			
IC 480-629847/7			07:56	X																			
IC 480-629847/8			08:00	X																			
IC 480-629847/9			08:04	X																			
ICV 480-629847/10	1		08:07	X																			
ICB 480-629847/11	1		08:11	X																			
ZZZZZZ			08:15																				
ZZZZZZ			08:18																				
CCV 480-629847/14	1		08:23	X																			
CCB 480-629847/15	1		08:26	X																			
MB 480-629847/16	1	T	08:29	X																			
LCS 480-629847/17	1	T	08:33	X																			
ZZZZZZ			08:37																				
ZZZZZZ			08:40																				
ZZZZZZ			08:44																				
ZZZZZZ			08:48																				
ZZZZZZ			08:51																				
ZZZZZZ			08:55																				
ZZZZZZ			08:59																				
ZZZZZZ			09:03																				
ZZZZZZ			09:06																				
CCV 480-629847/27	1		09:11	X																			
CCB 480-629847/28	1		09:13	X																			
ZZZZZZ			09:17																				
ZZZZZZ			09:21																				
480-198720-1	1	T	09:26	X																			
480-198720-1 DU	1	T	09:28	X																			
480-198720-1 MS	1	T	09:32	X																			
480-198720-2	1	T	09:35	X																			
480-198720-3	1	T	09:39	X																			
480-198720-4	1	T	09:43	X																			
ZZZZZZ			09:46																				
ZZZZZZ			09:50																				
ZZZZZZ			09:54																				
ZZZZZZ			09:57																				
CCV 480-629847/41	1		10:01	X																			
CCB 480-629847/42	1		10:05	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Skalar_San+ Method: 420.4

Start Date: 06/13/2022 07:33 End Date: 06/13/2022 13:46

Lab Sample ID	D / F	Type	Time	Analytes																				
				PhenT																				
ZZZZZZ			10:08																					
ZZZZZZ			10:12																					
MB 480-629847/45	1	T	10:17	X																				
LCS 480-629847/46	1	T	10:19	X																				
ZZZZZZ			10:23																					
ZZZZZZ			10:27																					
ZZZZZZ			10:30																					
ZZZZZZ			10:34																					
ZZZZZZ			10:38																					
ZZZZZZ			10:41																					
ZZZZZZ			10:45																					
ZZZZZZ			10:49																					
CCV 480-629847/55	1		10:52	X																				
CCB 480-629847/56	1		10:56	X																				
ZZZZZZ			11:00																					
ZZZZZZ			11:03																					
ZZZZZZ			11:08																					
ZZZZZZ			11:11																					
ZZZZZZ			11:14																					
ZZZZZZ			11:18																					
ZZZZZZ			11:22																					
ZZZZZZ			11:25																					
480-198813-1	1	T	11:29	X																				
480-198813-2	1	T	11:33	X																				
480-198813-3	1	T	11:36	X																				
480-198813-4	1	T	11:40	X																				
CCV 480-629847/69	1		11:44	X																				
CCB 480-629847/70	1		11:47	X																				
ZZZZZZ			11:51																					
ZZZZZZ			11:55																					
MB 480-629847/73	1	T	11:59	X																				
LCS 480-629847/74	1	T	12:02	X																				
480-198813-5	1	T	12:06	X																				
480-198813-5 MS	1	T	12:09	X																				
480-198813-6	1	T	12:13	X																				
480-198813-7	1	T	12:17	X																				
480-198813-8	1	T	12:20	X																				
480-198813-9	1	T	12:24	X																				
480-198813-10	1	T	12:28	X																				
ZZZZZZ			12:31																					
CCV 480-629847/83	1		12:35	X																				
CCB 480-629847/84	1		12:39	X																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Skalar_San+ Method: 420.4

Start Date: 06/13/2022 07:33 End Date: 06/13/2022 13:46

Lab Sample ID	D / F	Type	Time	Analytes																			
				PhenT																			
ZZZZZZ			12:42																				
ZZZZZZ			12:46																				
ZZZZZZ			12:51																				
ZZZZZZ			12:53																				
ZZZZZZ			12:57																				
ZZZZZZ			13:01																				
ZZZZZZ			13:04																				
ZZZZZZ			13:08																				
ZZZZZZ			13:12																				
ZZZZZZ			13:15																				
ZZZZZZ			13:19																				
ZZZZZZ			13:23																				
ZZZZZZ			13:26																				
CCV 480-629847/98			13:29																				
CCB 480-629847/99			13:34																				
ZZZZZZ			13:37																				
ZZZZZZ			13:41																				
ZZZZZZ			13:46																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Genesys Spec 30 Method: 7196A

Start Date: 06/07/2022 11:00 End Date: 06/07/2022 11:00

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cr6																			
CCV 480-629118/1	1		11:00	X																			
CCB 480-629118/2	1		11:00	X																			
MB 480-629118/3	1	T	11:00	X																			
LCS 480-629118/4	1	T	11:00	X																			
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
CCV 480-629118/13	1		11:00	X																			
CCV 480-629118/14	1		11:00	X																			
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
ZZZZZZ			11:00																				
480-198720-1	1	T	11:00	X																			
480-198720-2	1	T	11:00	X																			
CCV 480-629118/25	1		11:00	X																			
CCB 480-629118/26	1		11:00	X																			
MB 480-629118/27	1	T	11:00	X																			
LCS 480-629118/28	1	T	11:00	X																			
480-198720-3	1	T	11:00	X																			
480-198720-3 DU	1	T	11:00	X																			
480-198720-4	1	T	11:00	X																			
480-198720-4 MS	1	T	11:00	X																			
ZZZZZZ			11:00																				
CCV 480-629118/34	1		11:00	X																			
CCB 480-629118/35	1		11:00	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Genesys Spec 30 Method: 7196A

Start Date: 06/09/2022 10:15 End Date: 06/09/2022 10:15

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cr6																			
CCV 480-629426/1	1		10:15	X																			
CCB 480-629426/2	1		10:15	X																			
MB 480-629426/3	1	T	10:15	X																			
LCS 480-629426/4	1	T	10:15	X																			
480-198813-4	1	T	10:15	X																			
480-198813-4 DU	1	T	10:15	X																			
480-198813-5	1	T	10:15	X																			
480-198813-5 MS	1	T	10:15	X																			
480-198813-6	1	T	10:15	X																			
480-198813-1	1	T	10:15	X																			
480-198813-2	1	T	10:15	X																			
480-198813-3	1	T	10:15	X																			
CCV 480-629426/13	1		10:15	X																			
CCB 480-629426/14	1		10:15	X																			
480-198813-7	1	T	10:15	X																			
480-198813-7 DU	1	T	10:15	X																			
480-198813-9	1	T	10:15	X																			
480-198813-9 MS	1	T	10:15	X																			
480-198813-8	1	T	10:15	X																			
480-198813-10	1	T	10:15	X																			
ZZZZZZ			10:15																				
ZZZZZZ			10:15																				
ZZZZZZ			10:15																				
CCV 480-629426/24	1		10:15	X																			
CCB 480-629426/25	1		10:15	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: NOEQUIP Method: SM 2120B

Start Date: 06/07/2022 15:30 End Date: 06/07/2022 15:30

Lab Sample ID	D / F	Type	Time	Analytes																			
				Color																			
CCV 480-629139/1	1		15:30	X																			
CCB 480-629139/2	1		15:30	X																			
MB 480-629139/3	1	T	15:30	X																			
LCS 480-629139/4	1	T	15:30	X																			
ZZZZZZ			15:30																				
ZZZZZZ			15:30																				
480-198720-1	1	T	15:30	X																			
480-198720-2	1	T	15:30	X																			
480-198720-3	1	T	15:30	X																			
480-198720-4	1	T	15:30	X																			
ZZZZZZ			15:30																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: NOEQUIP Method: SM 2120B

Start Date: 06/09/2022 15:30 End Date: 06/09/2022 15:30

Lab Sample ID	D / F	Type	Time	Analytes																			
				Color																			
CCV 480-629501/1	1		15:30	X																			
CCB 480-629501/2	1		15:30	X																			
MB 480-629501/3	1	T	15:30	X																			
LCS 480-629501/4	1	T	15:30	X																			
480-198813-1	1	T	15:30	X																			
480-198813-1 DU	1	T	15:30	X																			
480-198813-2	1	T	15:30	X																			
480-198813-3	1	T	15:30	X																			
480-198813-4	1	T	15:30	X																			
480-198813-5	1	T	15:30	X																			
480-198813-6	1	T	15:30	X																			
480-198813-7	1	T	15:30	X																			
CCV 480-629501/13	1		15:30	X																			
CCB 480-629501/14	1		15:30	X																			
480-198813-8	1	T	15:30	X																			
480-198813-8 DU	1	T	15:30	X																			
480-198813-9	1	T	15:30	X																			
480-198813-10	1	T	15:30	X																			
ZZZZZZ			15:30																				
ZZZZZZ			15:30																				
CCV 480-629501/21	1		15:30	X																			
CCB 480-629501/22	1		15:30	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: IC-2 Method: 300.0

Start Date: 06/14/2022 13:53 End Date: 06/15/2022 01:39

Lab Sample ID	D / F	Type	Time	Analytes																			
				Br																			
CCV 480-629883/2	1		13:53	X																			
CCB 480-629883/3	1		14:07	X																			
MB 480-629883/4	1	T	14:21	X																			
LCS 480-629883/5	1	T	14:35	X																			
ZZZZZZ			16:00																				
ZZZZZZ			16:14																				
ZZZZZZ			16:28																				
CCV 480-629883/14	1		16:42	X																			
CCB 480-629883/15	1		16:56	X																			
480-198720-1	1	T	17:11	X																			
480-198720-2	1	T	17:25	X																			
480-198720-3	1	T	17:39	X																			
480-198720-4	1	T	17:53	X																			
ZZZZZZ			18:07																				
ZZZZZZ			19:04																				
ZZZZZZ			19:18																				
CCV 480-629883/26	1		19:32	X																			
CCB 480-629883/27	1		19:46	X																			
ZZZZZZ			20:00																				
ZZZZZZ			20:14																				
CCV 480-629883/38			22:22																				
CCB 480-629883/39			22:36																				
CCV 480-629883/50			01:11																				
CCB 480-629883/51			01:25																				
ZZZZZZ			01:39																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: IC-2 Method: 300.0

Start Date: 06/15/2022 17:28 End Date: 06/15/2022 23:35

Lab Sample ID	D / F	Type	Time	Analytes																			
				Br																			
CCV 480-630215/2	1		17:28	X																			
CCB 480-630215/3	1		17:42	X																			
MB 480-630215/4	1	T	17:56	X																			
LCS 480-630215/5	1	T	18:10	X																			
ZZZZZZ			19:35																				
ZZZZZZ			19:49																				
ZZZZZZ			20:03																				
CCV 480-630215/14	1		20:17	X																			
CCB 480-630215/15	1		20:32	X																			
480-198813-1	1	T	21:28	X																			
480-198813-2	2	T	21:42	X																			
480-198813-3	2	T	21:56	X																			
480-198813-4	1	T	22:11	X																			
480-198813-5	1	T	22:25	X																			
480-198813-6	2	T	22:39	X																			
480-198813-6 MS	2	T	22:53	X																			
CCV 480-630215/26	1		23:07	X																			
CCB 480-630215/27	1		23:21	X																			
ZZZZZZ			23:35																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: IC-5 Method: 300.0

Start Date: 06/17/2022 17:39 End Date: 06/18/2022 09:08

Lab Sample ID	D / F	Type	Time	Analytes																			
				Br																			
CCV 480-630550/2	1		17:39	X																			
CCB 480-630550/3	1		17:58	X																			
MB 480-630550/4	1	T	18:16	X																			
LCS 480-630550/5	1	T	18:35	X																			
480-198813-7	1	T	18:54	X																			
480-198813-8	1	T	19:12	X																			
480-198813-9	1	T	19:31	X																			
480-198813-10	2	T	19:49	X																			
ZZZZZZ			20:08																				
ZZZZZZ			20:27																				
ZZZZZZ			20:45																				
ZZZZZZ			21:04																				
CCV 480-630550/14	1		21:22	X																			
CCB 480-630550/15	1		21:41	X																			
ZZZZZZ			21:59																				
ZZZZZZ			22:18																				
ZZZZZZ			22:36																				
ZZZZZZ			00:28																				
ZZZZZZ			00:46																				
CCV 480-630550/26			01:05																				
CCB 480-630550/27			01:24																				
ZZZZZZ			01:42																				
ZZZZZZ			02:01																				
ZZZZZZ			03:52																				
ZZZZZZ			04:11																				
ZZZZZZ			04:29																				
CCV 480-630550/38			04:48																				
CCB 480-630550/39			05:06																				
ZZZZZZ			06:39																				
ZZZZZZ			06:58																				
ZZZZZZ			07:53																				
ZZZZZZ			08:12																				
CCV 480-630550/50			08:30																				
CCB 480-630550/51			08:49																				
ZZZZZZ			09:08																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: LACHAT3 Method: 353.2

Start Date: 06/07/2022 19:28 End Date: 06/07/2022 20:11

Lab Sample ID	D / F	Type	Time	Analytes																			
				NO3																			
ZZZZZZ			19:28																				
ZZZZZZ			19:31																				
480-198720-1	1	T	19:33	X																			
480-198720-2	1	T	19:35	X																			
480-198720-3	1	T	19:36	X																			
480-198720-4	1	T	19:38	X																			
ZZZZZZ			19:42																				
ZZZZZZ			19:44																				
ZZZZZZ			19:47																				
ZZZZZZ			19:49																				
ZZZZZZ			19:50																				
ZZZZZZ			19:51																				
ZZZZZZ			19:53																				
ZZZZZZ			19:54																				
ZZZZZZ			20:01																				
ZZZZZZ			20:04																				
ZZZZZZ			20:07																				
ZZZZZZ			20:08																				
ZZZZZZ			20:09																				
ZZZZZZ			20:11																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: LACHAT3 Method: 353.2

Start Date: 06/09/2022 20:04 End Date: 06/09/2022 21:32

Lab Sample ID	D/F	Type	Time	Analytes																			
				NO3																			
480-198813-6	1	T	20:04	X																			
480-198813-4	1	T	20:07	X																			
480-198813-1	1	T	20:10	X																			
480-198813-2	1	T	20:11	X																			
480-198813-3	1	T	20:12	X																			
480-198813-5	1	T	20:14	X																			
480-198813-9	1	T	20:18	X																			
480-198813-10	1	T	20:21	X																			
480-198813-8	1	T	20:23	X																			
480-198813-7	1	T	20:25	X																			
ZZZZZZ			20:26																				
ZZZZZZ			20:27																				
ZZZZZZ			20:29																				
ZZZZZZ			20:30																				
ZZZZZZ			20:37																				
ZZZZZZ			20:40																				
ZZZZZZ			20:43																				
ZZZZZZ			20:44																				
ZZZZZZ			20:45																				
ZZZZZZ			20:47																				
ZZZZZZ			20:51																				
ZZZZZZ			20:54																				
ZZZZZZ			20:56																				
ZZZZZZ			20:58																				
ZZZZZZ			20:59																				
ZZZZZZ			21:00																				
ZZZZZZ			21:02																				
ZZZZZZ			21:03																				
ZZZZZZ			21:10																				
ZZZZZZ			21:13																				
ZZZZZZ			21:16																				
ZZZZZZ			21:17																				
ZZZZZZ			21:18																				
ZZZZZZ			21:20																				
ZZZZZZ			21:24																				
ZZZZZZ			21:27																				
ZZZZZZ			21:29																				
ZZZZZZ			21:31																				
ZZZZZZ			21:32																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Gallery 1 Method: 9038

Start Date: 06/09/2022 12:04 End Date: 06/09/2022 15:20

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
ZZZZZZ			12:04																				
ZZZZZZ			12:04																				
ZZZZZZ			12:04																				
ZZZZZZ			12:04																				
ZZZZZZ			12:04																				
ZZZZZZ			12:04																				
ZZZZZZ			12:05																				
ZZZZZZ			12:05																				
ICB 480-629495/9	1		12:05	X																			
ZZZZZZ			12:05																				
CCB 480-629495/11			12:16																				
CCV 480-629495/12			12:17																				
ZZZZZZ			12:17																				
ZZZZZZ			12:17																				
ZZZZZZ			12:17																				
ZZZZZZ			12:17																				
ZZZZZZ			12:17																				
ZZZZZZ			12:17																				
ZZZZZZ			12:18																				
ZZZZZZ			12:18																				
ZZZZZZ			12:18																				
ZZZZZZ			12:18																				
CCB 480-629495/23			12:18																				
CCV 480-629495/24			12:18																				
ZZZZZZ			12:19																				
ZZZZZZ			12:19																				
ZZZZZZ			12:19																				
ZZZZZZ			12:20																				
ZZZZZZ			12:20																				
ZZZZZZ			12:20																				
CCB 480-629495/31			12:20																				
CCV 480-629495/32			12:20																				
ZZZZZZ			12:20																				
ZZZZZZ			12:20																				
ZZZZZZ			12:21																				
ZZZZZZ			12:21																				
ZZZZZZ			12:21																				
ZZZZZZ			12:21																				
CCB 480-629495/39			12:22																				
CCV 480-629495/40			12:22																				
ZZZZZZ			12:25																				
ZZZZZZ			12:26																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Gallery 1 Method: 9038

Start Date: 06/09/2022 12:04 End Date: 06/09/2022 15:20

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
ZZZZZZ			12:26																				
CCB 480-629495/44			12:27																				
CCV 480-629495/45			12:27																				
ZZZZZZ			12:30																				
ZZZZZZ			12:30																				
ZZZZZZ			12:31																				
ZZZZZZ			12:31																				
ZZZZZZ			12:32																				
CCB 480-629495/51	1		12:32	X																			
CCV 480-629495/52	1		12:32	X																			
MB 480-629495/53	1	T	12:33	X																			
LCS 480-629495/54	1	T	12:33	X																			
ZZZZZZ			12:35																				
ZZZZZZ			12:35																				
ZZZZZZ			12:36																				
CCB 480-629495/58	1		12:36	X																			
CCV 480-629495/59	1		12:36	X																			
ZZZZZZ			12:36																				
ZZZZZZ			12:37																				
ZZZZZZ			12:37																				
ZZZZZZ			12:37																				
ZZZZZZ			12:38																				
ZZZZZZ			12:38																				
ZZZZZZ			12:38																				
ZZZZZZ			12:38																				
ZZZZZZ			12:39																				
ZZZZZZ			12:39																				
CCB 480-629495/70			12:39																				
CCV 480-629495/71			12:39																				
ZZZZZZ			12:40																				
ZZZZZZ			12:40																				
ZZZZZZ			12:40																				
ZZZZZZ			12:41																				
ZZZZZZ			12:42																				
CCB 480-629495/77			12:42																				
CCV 480-629495/78			12:42																				
ZZZZZZ			12:47																				
ZZZZZZ			12:47																				
ZZZZZZ			12:47																				
ZZZZZZ			12:48																				
CCB 480-629495/83			12:48																				
CCV 480-629495/84			12:48																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Gallery 1 Method: 9038

Start Date: 06/09/2022 12:04 End Date: 06/09/2022 15:20

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
ZZZZZZ			13:27																				
ZZZZZZ			13:27																				
CCB 480-629495/87			13:28																				
CCV 480-629495/88			13:28																				
ZZZZZZ			13:33																				
ZZZZZZ			13:33																				
ZZZZZZ			13:33																				
ZZZZZZ			13:34																				
CCB 480-629495/93			13:35																				
CCV 480-629495/94			13:35																				
ZZZZZZ			13:37																				
ZZZZZZ			13:37																				
ZZZZZZ			13:38																				
ZZZZZZ			13:38																				
ZZZZZZ			13:38																				
ZZZZZZ			13:39																				
ZZZZZZ			13:39																				
CCB 480-629495/102			13:39																				
CCV 480-629495/103			13:39																				
ZZZZZZ			13:39																				
ZZZZZZ			13:40																				
ZZZZZZ			13:40																				
ZZZZZZ			13:41																				
ZZZZZZ			13:41																				
ZZZZZZ			13:41																				
ZZZZZZ			13:41																				
ZZZZZZ			13:41																				
ZZZZZZ			13:42																				
ZZZZZZ			13:42																				
CCB 480-629495/114	1		13:42	X																			
CCV 480-629495/115	1		13:42	X																			
ZZZZZZ			13:43																				
MB 480-629495/117	1	T	13:43	X																			
LCS 480-629495/118	1	T	13:43	X																			
ZZZZZZ			13:48																				
ZZZZZZ			13:48																				
ZZZZZZ			13:49																				
ZZZZZZ			13:49																				
CCB 480-629495/123	1		13:49	X																			
CCV 480-629495/124	1		13:49	X																			
ZZZZZZ			13:49																				
ZZZZZZ			13:50																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Gallery 1 Method: 9038

Start Date: 06/09/2022 12:04 End Date: 06/09/2022 15:20

Lab Sample ID	D/F	Type	Time	Analytes																			
				SO4																			
480-198720-1	1	T	13:50	X																			
MB 480-629495/128	1	T	13:50	X																			
LCS 480-629495/129	1	T	13:50	X																			
ZZZZZZ			13:50																				
ZZZZZZ			13:50																				
480-198720-2	1	T	13:50	X																			
480-198720-3	1	T	13:51	X																			
CCB 480-629495/134	1		13:51	X																			
CCV 480-629495/135	1		13:51	X																			
480-198720-4	1	T	13:51	X																			
ZZZZZZ			13:52																				
ZZZZZZ			13:52																				
ZZZZZZ			13:52																				
ZZZZZZ			13:53																				
ZZZZZZ			13:53																				
ZZZZZZ			13:53																				
ZZZZZZ			13:54																				
ZZZZZZ			13:54																				
ZZZZZZ			13:55																				
ZZZZZZ			13:56																				
CCV 480-629495/147	1		13:56	X																			
CCB 480-629495/148	1		13:58	X																			
ZZZZZZ			13:58																				
ZZZZZZ			14:03																				
ZZZZZZ			14:03																				
CCV 480-629495/152	1		14:03	X																			
ZZZZZZ			14:04																				
CCB 480-629495/154	1		14:04	X																			
ZZZZZZ			14:04																				
MB 480-629495/156	1	T	14:54	X																			
CCV 480-629495/157	1		14:54	X																			
ZZZZZZ			14:55																				
ZZZZZZ			14:55																				
ZZZZZZ			14:55																				
CCB 480-629495/161	1		14:55	X																			
ZZZZZZ			14:56																				
LCS 480-629495/163	1	T	14:56	X																			
ZZZZZZ			14:56																				
480-198813-1	1	T	14:56	X																			
480-198813-2	1	T	14:57	X																			
MB 480-629495/167	1	T	14:57	X																			
CCV 480-629495/168	1		14:57	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Gallery 1 Method: 9038

Start Date: 06/09/2022 12:04 End Date: 06/09/2022 15:20

Lab Sample ID	D/F	Type	Time	Analytes																			
				SO4																			
480-198813-3	1	T	14:57	X																			
480-198813-4	1	T	14:57	X																			
480-198813-5	1	T	14:57	X																			
480-198813-6	1	T	14:58	X																			
CCB 480-629495/173	1		14:58	X																			
LCS 480-629495/174	1	T	14:58	X																			
480-198813-7	1	T	14:58	X																			
480-198813-8 MS	1	T	14:58	X																			
480-198813-8 MSD	1	T	14:58	X																			
480-198813-8	1	T	14:58	X																			
MB 480-629495/179	1	T	14:59	X																			
CCV 480-629495/180	1		14:59	X																			
480-198813-9	1	T	14:59	X																			
480-198813-10	1	T	14:59	X																			
ZZZZZZ			14:59																				
CCB 480-629495/184	1		15:00	X																			
ZZZZZZ			15:00																				
ZZZZZZ			15:01																				
ZZZZZZ			15:01																				
ZZZZZZ			15:03																				
ZZZZZZ			15:04																				
CCB 480-629495/190			15:05																				
CCV 480-629495/191	1		15:05	X																			
ZZZZZZ			15:05																				
ZZZZZZ			15:05																				
ZZZZZZ			15:05																				
ZZZZZZ			15:05																				
ZZZZZZ			15:05																				
ZZZZZZ			15:06																				
ZZZZZZ			15:06																				
ZZZZZZ			15:06																				
CCB 480-629495/200			15:07																				
CCV 480-629495/201			15:07																				
ZZZZZZ			15:13																				
ZZZZZZ			15:13																				
ZZZZZZ			15:18																				
CCB 480-629495/205			15:19																				
CCV 480-629495/206			15:19																				
ZZZZZZ			15:19																				
CCB 480-629495/208			15:20																				
CCV 480-629495/209			15:20																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Gallery 1 Method: 9038

Start Date: 06/09/2022 12:04 End Date: 06/09/2022 15:20

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Balance-3 Method: SM 2540C

Start Date: 06/09/2022 09:41 End Date: 06/09/2022 09:41

Lab Sample ID	D / F	Type	Time	Analytes																			
				TDS																			
MB 480-629374/1	1	T	09:41	X																			
LCS 480-629374/2	1	T	09:41	X																			
480-198720-3	1	T	09:41	X																			
480-198720-3 DU	1	T	09:41	X																			
480-198720-4	1	T	09:41	X																			
ZZZZZZ			09:41																				
ZZZZZZ			09:41																				
ZZZZZZ			09:41																				
ZZZZZZ			09:41																				
ZZZZZZ			09:41																				
ZZZZZZ			09:41																				
ZZZZZZ			09:41																				
ZZZZZZ			09:41																				
ZZZZZZ			09:41																				
ZZZZZZ			09:41																				
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ZZZZZZ			09:41																				
ZZZZZZ			09:41																				
ZZZZZZ			09:41																				
ZZZZZZ			09:41																				
ZZZZZZ			09:41																				
ZZZZZZ			09:41																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Balance-3 Method: SM 2540C

Start Date: 06/09/2022 09:45 End Date: 06/09/2022 09:45

Lab Sample ID	D / F	Type	Time	Analytes																			
				TDS																			
MB 480-629377/1	1	T	09:45	X																			
LCS 480-629377/2	1	T	09:45	X																			
ZZZZZZ			09:45																				
ZZZZZZ			09:45																				
ZZZZZZ			09:45																				
ZZZZZZ			09:45																				
ZZZZZZ			09:45																				
ZZZZZZ			09:45																				
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ZZZZZZ			09:45																				
ZZZZZZ			09:45																				
ZZZZZZ			09:45																				
ZZZZZZ			09:45																				
480-198720-1	1	T	09:45	X																			
480-198720-2	1	T	09:45	X																			
480-198720-2 DU	1	T	09:45	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Balance-3 Method: SM 2540C

Start Date: 06/10/2022 09:23 End Date: 06/10/2022 09:23

Lab Sample ID	D / F	Type	Time	Analytes																			
				TDS																			
MB 480-629552/1	1	T	09:23	X																			
LCS 480-629552/2	1	T	09:23	X																			
ZZZZZZ			09:23																				
ZZZZZZ			09:23																				
ZZZZZZ			09:23																				
ZZZZZZ			09:23																				
ZZZZZZ			09:23																				
ZZZZZZ			09:23																				
ZZZZZZ			09:23																				
ZZZZZZ			09:23																				
ZZZZZZ			09:23																				
480-198813-1	1	T	09:23	X																			
480-198813-2	1	T	09:23	X																			
480-198813-3	1	T	09:23	X																			
480-198813-4	1	T	09:23	X																			
480-198813-5	1	T	09:23	X																			
480-198813-6	1	T	09:23	X																			
480-198813-8	1	T	09:23	X																			
480-198813-7	1	T	09:23	X																			
480-198813-7 DU	1	T	09:23	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Balance-3 Method: SM 2540C

Start Date: 06/13/2022 09:26 End Date: 06/13/2022 09:26

Lab Sample ID	D / F	Type	Time	Analytes																				
				TDS																				
MB 480-629750/1	1	T	09:26	X																				
LCS 480-629750/2	1	T	09:26	X																				
ZZZZZZ			09:26																					
ZZZZZZ			09:26																					
480-198813-9	1	T	09:26	X																				
480-198813-10	1	T	09:26	X																				
ZZZZZZ			09:26																					
ZZZZZZ			09:26																					
ZZZZZZ			09:26																					
ZZZZZZ			09:26																					
ZZZZZZ			09:26																					
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ZZZZZZ			09:26																					
ZZZZZZ			09:26																					
ZZZZZZ			09:26																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 05/20/2022 18:33 End Date: 06/08/2022 23:58

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
ZZZZZZ			18:33																				
ZZZZZZ			18:33																				
ZZZZZZ			18:34																				
ZZZZZZ			18:34																				
ZZZZZZ			18:34																				
ZZZZZZ			18:35																				
ZZZZZZ			18:35																				
ICB 480-629332/8	1		18:35	X																			
CCB 480-629332/9			18:20																				
CCV 480-629332/10			18:20																				
ZZZZZZ			18:21																				
ZZZZZZ			18:21																				
ICV 480-629332/13	2		18:21	X																			
CCB 480-629332/14			18:22																				
CCV 480-629332/15			18:22																				
ZZZZZZ			18:22																				
ZZZZZZ			18:22																				
CCB 480-629332/18			18:36																				
CCV 480-629332/19			18:36																				
ZZZZZZ			18:37																				
ZZZZZZ			18:37																				
ZZZZZZ			18:37																				
ZZZZZZ			18:38																				
ZZZZZZ			18:38																				
ZZZZZZ			18:44																				
ZZZZZZ			18:49																				
ZZZZZZ			18:49																				
ZZZZZZ			18:50																				
ZZZZZZ			18:52																				
CCB 480-629332/30			19:05																				
CCV 480-629332/31			19:05																				
ZZZZZZ			19:06																				
ZZZZZZ			19:06																				
ZZZZZZ			19:08																				
ZZZZZZ			19:11																				
ZZZZZZ			19:16																				
ZZZZZZ			19:21																				
CCB 480-629332/38			19:23																				
CCV 480-629332/39			19:23																				
ZZZZZZ			19:23																				
ZZZZZZ			19:24																				
ZZZZZZ			19:27																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 05/20/2022 18:33 End Date: 06/08/2022 23:58

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
ZZZZZZ			19:27																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:32																				
ZZZZZZ			19:32																				
ZZZZZZ			19:32																				
ZZZZZZ			19:33																				
ZZZZZZ			19:33																				
CCB 480-629332/51			19:35																				
CCV 480-629332/52			19:35																				
ZZZZZZ			19:36																				
ZZZZZZ			19:37																				
ZZZZZZ			19:38																				
ZZZZZZ			19:38																				
ZZZZZZ			19:38																				
ZZZZZZ			19:39																				
ZZZZZZ			19:39																				
ZZZZZZ			19:44																				
ZZZZZZ			19:47																				
ZZZZZZ			19:47																				
ZZZZZZ			19:48																				
CCB 480-629332/64			20:08																				
CCV 480-629332/65			20:08																				
ZZZZZZ			20:09																				
ZZZZZZ			20:09																				
ZZZZZZ			20:10																				
ZZZZZZ			20:10																				
ZZZZZZ			20:11																				
ZZZZZZ			20:11																				
ZZZZZZ			20:12																				
ZZZZZZ			20:12																				
ZZZZZZ			20:12																				
ZZZZZZ			20:14																				
ZZZZZZ			20:14																				
ZZZZZZ			20:14																				
CCB 480-629332/78			20:55																				
CCV 480-629332/79			20:55																				
ZZZZZZ			20:56																				
ZZZZZZ			20:56																				
ZZZZZZ			20:56																				
ZZZZZZ			20:56																				
ZZZZZZ			20:57																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 05/20/2022 18:33 End Date: 06/08/2022 23:58

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
ZZZZZZ			20:57																				
ZZZZZZ			20:57																				
ZZZZZZ			20:58																				
ZZZZZZ			20:58																				
ZZZZZZ			21:00																				
CCB 480-629332/90			21:02																				
CCV 480-629332/91			21:02																				
ZZZZZZ			21:03																				
ZZZZZZ			21:03																				
ZZZZZZ			21:05																				
ZZZZZZ			21:05																				
ZZZZZZ			21:06																				
ZZZZZZ			21:06																				
ZZZZZZ			21:06																				
ZZZZZZ			21:07																				
ZZZZZZ			21:07																				
CCB 480-629332/101			21:07																				
CCV 480-629332/102			21:08																				
ZZZZZZ			21:10																				
ZZZZZZ			21:10																				
ZZZZZZ			21:11																				
ZZZZZZ			21:12																				
ZZZZZZ			21:12																				
CCB 480-629332/108			21:13																				
CCV 480-629332/109			21:13																				
ZZZZZZ			21:13																				
ZZZZZZ			21:14																				
ZZZZZZ			21:14																				
ZZZZZZ			21:14																				
ZZZZZZ			21:16																				
ZZZZZZ			21:16																				
ZZZZZZ			21:17																				
ZZZZZZ			21:17																				
ZZZZZZ			21:17																				
ZZZZZZ			21:18																				
CCB 480-629332/120			21:22																				
CCV 480-629332/121			21:23																				
ZZZZZZ			21:23																				
ZZZZZZ			21:23																				
ZZZZZZ			21:26																				
ZZZZZZ			21:29																				
ZZZZZZ			21:30																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 05/20/2022 18:33 End Date: 06/08/2022 23:58

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
ZZZZZZ			21:30																				
ZZZZZZ			21:31																				
CCB 480-629332/129			21:31																				
CCV 480-629332/130			21:32																				
ZZZZZZ			21:32																				
ZZZZZZ			21:32																				
ZZZZZZ			21:32																				
ZZZZZZ			21:33																				
ZZZZZZ			21:33																				
ZZZZZZ			21:35																				
CCB 480-629332/137			21:37																				
CCV 480-629332/138			21:37																				
ZZZZZZ			21:37																				
ZZZZZZ			21:38																				
ZZZZZZ			21:38																				
ZZZZZZ			21:38																				
ZZZZZZ			21:39																				
ZZZZZZ			21:39																				
ZZZZZZ			21:40																				
ZZZZZZ			21:40																				
ZZZZZZ			21:41																				
ZZZZZZ			21:42																				
ZZZZZZ			21:42																				
CCB 480-629332/150			21:43																				
CCV 480-629332/151			21:43																				
ZZZZZZ			21:44																				
ZZZZZZ			21:44																				
ZZZZZZ			21:46																				
ZZZZZZ			21:46																				
ZZZZZZ			21:47																				
ZZZZZZ			21:49																				
ZZZZZZ			21:50																				
ZZZZZZ			21:50																				
ZZZZZZ			21:50																				
ZZZZZZ			21:51																				
ZZZZZZ			21:51																				
ZZZZZZ			21:51																				
CCB 480-629332/164			21:54																				
CCV 480-629332/165			21:55																				
ZZZZZZ			21:55																				
ZZZZZZ			21:55																				
ZZZZZZ			21:57																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 05/20/2022 18:33 End Date: 06/08/2022 23:58

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
ZZZZZZ			22:01																				
ZZZZZZ			22:02																				
ZZZZZZ			22:03																				
ZZZZZZ			22:03																				
ZZZZZZ			22:03																				
ZZZZZZ			22:04																				
ZZZZZZ			22:04																				
CCB 480-629332/176			22:04																				
CCV 480-629332/177			22:05																				
ZZZZZZ			22:05																				
ZZZZZZ			22:05																				
ZZZZZZ			22:09																				
ZZZZZZ			22:09																				
ZZZZZZ			22:09																				
ZZZZZZ			22:10																				
ZZZZZZ			22:11																				
ZZZZZZ			22:17																				
CCB 480-629332/186			22:28																				
CCV 480-629332/187			22:29																				
ZZZZZZ			22:29																				
ZZZZZZ			22:29																				
ZZZZZZ			22:30																				
ZZZZZZ			22:30																				
ZZZZZZ			22:30																				
ZZZZZZ			22:31																				
ZZZZZZ			22:31																				
ZZZZZZ			22:31																				
ZZZZZZ			22:31																				
ZZZZZZ			22:32																				
CCB 480-629332/198			22:32																				
CCV 480-629332/199			22:32																				
ZZZZZZ			22:33																				
ZZZZZZ			22:33																				
ZZZZZZ			22:33																				
ZZZZZZ			22:34																				
ZZZZZZ			22:34																				
ZZZZZZ			22:34																				
ZZZZZZ			22:34																				
ZZZZZZ			22:35																				
ZZZZZZ			22:35																				
CCB 480-629332/209			22:36																				
CCV 480-629332/210			22:36																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 05/20/2022 18:33 End Date: 06/08/2022 23:58

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
ZZZZZZ			22:36																				
ZZZZZZ			22:37																				
ZZZZZZ			22:37																				
ZZZZZZ			22:37																				
ZZZZZZ			22:37																				
ZZZZZZ			22:38																				
ZZZZZZ			22:38																				
ZZZZZZ			22:39																				
ZZZZZZ			22:39																				
CCB 480-629332/220			22:39																				
CCV 480-629332/221			22:40																				
ZZZZZZ			22:40																				
ZZZZZZ			22:40																				
ZZZZZZ			22:41																				
ZZZZZZ			22:42																				
ZZZZZZ			22:43																				
CCB 480-629332/227			22:43																				
CCV 480-629332/228			22:43																				
ZZZZZZ			22:44																				
ZZZZZZ			22:44																				
ZZZZZZ			22:44																				
ZZZZZZ			22:44																				
ZZZZZZ			22:45																				
ZZZZZZ			22:46																				
ZZZZZZ			22:46																				
ZZZZZZ			22:46																				
ZZZZZZ			22:47																				
ZZZZZZ			22:47																				
ZZZZZZ			22:48																				
CCB 480-629332/240	1		22:48	X																			
CCV 480-629332/241	1		22:48	X																			
ZZZZZZ			22:49																				
MB 480-629332/243	1	T	22:49	X																			
ZZZZZZ			22:49																				
ZZZZZZ			22:50																				
ZZZZZZ			22:50																				
ZZZZZZ			22:51																				
ZZZZZZ			22:51																				
CCB 480-629332/249	1		22:52	X																			
CCV 480-629332/250	1		22:52	X																			
LCS 480-629332/251	1	T	22:53	X																			
MB 480-629332/252	1	T	22:53	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 05/20/2022 18:33 End Date: 06/08/2022 23:58

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
ZZZZZZ			22:54																				
ZZZZZZ			22:55																				
ZZZZZZ			22:55																				
ZZZZZZ			22:55																				
ZZZZZZ			22:56																				
ZZZZZZ			22:56																				
CCB 480-629332/259	1		22:56	X																			
CCV 480-629332/260	1		22:57	X																			
ZZZZZZ			22:57																				
MB 480-629332/262	1	T	22:57	X																			
ZZZZZZ			22:58																				
ZZZZZZ			22:58																				
ZZZZZZ			23:00																				
ZZZZZZ			23:00																				
ZZZZZZ			23:01																				
ZZZZZZ			23:02																				
ZZZZZZ			23:03																				
ZZZZZZ			23:03																				
ZZZZZZ			23:04																				
ZZZZZZ			23:04																				
CCB 480-629332/273	1		23:05	X																			
CCV 480-629332/274	1		23:06	X																			
LCS 480-629332/275	1	T	23:06	X																			
MB 480-629332/276	1	T	23:07	X																			
ZZZZZZ			23:08																				
ZZZZZZ			23:08																				
ZZZZZZ			23:08																				
ZZZZZZ			23:09																				
ZZZZZZ			23:10																				
ZZZZZZ			23:10																				
480-198720-2	1	T	23:10	X																			
CCB 480-629332/284	1		23:11	X																			
CCV 480-629332/285	1		23:11	X																			
ZZZZZZ			23:11																				
MB 480-629332/287	1	T	23:12	X																			
ZZZZZZ			23:12																				
ZZZZZZ			23:12																				
ZZZZZZ			23:13																				
ZZZZZZ			23:13																				
ZZZZZZ			23:13																				
ZZZZZZ			23:13																				
ZZZZZZ			23:14																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 05/20/2022 18:33 End Date: 06/08/2022 23:58

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
ZZZZZZ			23:14																				
ZZZZZZ			23:14																				
ZZZZZZ			23:15																				
CCB 480-629332/298	1		23:15	X																			
CCV 480-629332/299	1		23:15	X																			
LCS 480-629332/300	1	T	23:16	X																			
MB 480-629332/301	1	T	23:16	X																			
ZZZZZZ			23:16																				
ZZZZZZ			23:16																				
ZZZZZZ			23:17																				
ZZZZZZ			23:17																				
ZZZZZZ			23:17																				
ZZZZZZ			23:18																				
ZZZZZZ			23:18																				
ZZZZZZ			23:18																				
CCB 480-629332/310	1		23:19	X																			
CCV 480-629332/311	1		23:19	X																			
LCS 480-629332/312	1	T	23:19	X																			
MB 480-629332/313	1	T	23:19	X																			
480-198720-4	1	T	23:22	X																			
480-198720-3	1	T	23:22	X																			
ZZZZZZ			23:23																				
ZZZZZZ			23:24																				
ZZZZZZ			23:27																				
ZZZZZZ			23:31																				
ZZZZZZ			23:34																				
ZZZZZZ			23:36																				
CCB 480-629332/322	1		23:42	X																			
CCV 480-629332/323	1		23:42	X																			
ZZZZZZ			23:43																				
ZZZZZZ			23:43																				
ZZZZZZ			23:51																				
ZZZZZZ			23:57																				
ZZZZZZ			23:57																				
CCB 480-629332/329			23:58																				
CCV 480-629332/330			23:58																				
ZZZZZZ			23:58																				
ZZZZZZ			23:58																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: KONE2 Method: SM 4500 Cl- E

Start Date: 06/26/2022 10:36 End Date: 06/26/2022 16:56

Lab Sample ID	D / F	Type	Time	Analytes																			
				CL-																			
ZZZZZZ			10:36																				
ZZZZZZ			10:36																				
ICB 480-631684/3	1		10:36	X																			
ICV 480-631684/4	1		10:36	X																			
CCV 480-631684/5			10:52																				
ZZZZZZ			10:52																				
CCB 480-631684/7			10:52																				
ZZZZZZ			10:52																				
CCVL 480-631684/9	1		10:52	X																			
CCV 480-631684/10	1		10:53	X																			
ZZZZZZ			10:53																				
CCB 480-631684/12	1		10:53	X																			
MB 480-631684/13	1	T	10:53	X																			
CCV 480-631684/14	1		12:13	X																			
LCS 480-631684/15	1	T	12:13	X																			
CCB 480-631684/16	1		12:13	X																			
MB 480-631684/17	1	T	12:13	X																			
ZZZZZZ			12:13																				
ZZZZZZ			12:13																				
ZZZZZZ			12:13																				
ZZZZZZ			12:13																				
CCV 480-631684/22	1		12:15	X																			
ZZZZZZ			12:15																				
CCB 480-631684/24	1		12:15	X																			
ZZZZZZ			12:15																				
ZZZZZZ			12:15																				
CCV 480-631684/27			12:26																				
ZZZZZZ			12:26																				
CCB 480-631684/29			12:26																				
ZZZZZZ			12:26																				
ZZZZZZ			12:26																				
ZZZZZZ			12:32																				
ZZZZZZ			12:32																				
ZZZZZZ			12:32																				
ZZZZZZ			12:32																				
ZZZZZZ			12:32																				
ZZZZZZ			12:32																				
ZZZZZZ			12:32																				
CCV 480-631684/39			12:32																				
ZZZZZZ			12:32																				
CCB 480-631684/41			12:32																				
ZZZZZZ			12:32																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: KONE2 Method: SM 4500 Cl- E

Start Date: 06/26/2022 10:36 End Date: 06/26/2022 16:56

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
ZZZZZZ			12:33																				
CCV 480-631684/44			12:33																				
ZZZZZZ			12:33																				
CCB 480-631684/46			12:33																				
ZZZZZZ			12:33																				
ZZZZZZ			12:34																				
ZZZZZZ			12:34																				
ZZZZZZ			12:34																				
ZZZZZZ			12:34																				
ZZZZZZ			12:34																				
ZZZZZZ			12:34																				
CCV 480-631684/54			12:36																				
ZZZZZZ			12:36																				
CCB 480-631684/56			12:36																				
ZZZZZZ			12:36																				
ZZZZZZ			12:43																				
ZZZZZZ			12:43																				
ZZZZZZ			12:43																				
ZZZZZZ			12:45																				
ZZZZZZ			12:45																				
CCV 480-631684/63			12:45																				
ZZZZZZ			12:45																				
CCB 480-631684/65			12:45																				
ZZZZZZ			12:45																				
ZZZZZZ			12:46																				
ZZZZZZ			12:46																				
ZZZZZZ			12:52																				
ZZZZZZ			12:52																				
CCV 480-631684/71			12:52																				
ZZZZZZ			12:52																				
CCB 480-631684/73			12:52																				
ZZZZZZ			12:52																				
ZZZZZZ			12:53																				
ZZZZZZ			12:53																				
ZZZZZZ			12:53																				
CCV 480-631684/78			12:54																				
ZZZZZZ			12:54																				
CCB 480-631684/80			12:54																				
ZZZZZZ			12:54																				
CCV 480-631684/82			13:41																				
ZZZZZZ			13:41																				
CCB 480-631684/84			13:41																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: KONE2 Method: SM 4500 Cl- E

Start Date: 06/26/2022 10:36 End Date: 06/26/2022 16:56

Lab Sample ID	D / F	Type	Time	Analytes																			
				CL-																			
ZZZZZZ			13:41																				
ZZZZZZ			13:41																				
ZZZZZZ			13:41																				
ZZZZZZ			13:44																				
ZZZZZZ			13:44																				
CCV 480-631684/90	1		13:45	X																			
ZZZZZZ			13:45																				
CCB 480-631684/92	1		13:45	X																			
MB 480-631684/93	1	T	13:45	X																			
CCV 480-631684/94	1		14:04	X																			
LCS 480-631684/95	1	T	14:04	X																			
CCB 480-631684/96	1		14:04	X																			
MB 480-631684/97	1	T	14:04	X																			
ZZZZZZ			14:10																				
ZZZZZZ			14:10																				
ZZZZZZ			14:10																				
480-198813-1	1	T	14:10	X																			
CCV 480-631684/102	1		14:10	X																			
LCS 480-631684/103	1	T	14:10	X																			
CCB 480-631684/104	1		14:10	X																			
MB 480-631684/105	1	T	14:10	X																			
480-198813-3 MS	1	T	14:11	X																			
480-198813-3 MSD	1	T	14:11	X																			
480-198813-3	1	T	14:11	X																			
ZZZZZZ			14:13																				
ZZZZZZ			14:13																				
CCV 480-631684/111	1		14:13	X																			
ZZZZZZ			14:13																				
CCB 480-631684/113	1		14:13	X																			
ZZZZZZ			14:13																				
ZZZZZZ			14:18																				
ZZZZZZ			14:18																				
ZZZZZZ			14:18																				
CCV 480-631684/118			14:19																				
ZZZZZZ			14:19																				
CCB 480-631684/120			14:19																				
ZZZZZZ			14:19																				
CCV 480-631684/122	1		14:21	X																			
ZZZZZZ			14:21																				
CCB 480-631684/124	1		14:21	X																			
MB 480-631684/125	1	T	14:21	X																			
CCV 480-631684/126	1		14:49	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: KONE2 Method: SM 4500 Cl- E

Start Date: 06/26/2022 10:36 End Date: 06/26/2022 16:56

Lab Sample ID	D / F	Type	Time	Analytes																			
				CL-																			
LCS 480-631684/127	1	T	14:49	X																			
CCB 480-631684/128	1		14:49	X																			
MB 480-631684/129	1	T	14:49	X																			
480-198813-2	1	T	14:49	X																			
480-198813-5	1	T	14:49	X																			
480-198813-6	1	T	14:49	X																			
480-198813-7	1	T	14:49	X																			
480-198813-8	1	T	14:49	X																			
480-198813-9	1	T	14:49	X																			
480-198813-10	1	T	14:49	X																			
ZZZZZZ			14:49																				
CCV 480-631684/138	1		14:50	X																			
LCS 480-631684/139	1	T	14:50	X																			
CCB 480-631684/140	1		14:50	X																			
MB 480-631684/141	1	T	14:50	X																			
480-198720-1	1	T	14:50	X																			
ZZZZZZ			14:50																				
480-198813-4 MS	1	T	14:50	X																			
480-198813-4 MSD	1	T	14:50	X																			
480-198813-4	1	T	14:50	X																			
ZZZZZZ			14:50																				
CCV 480-631684/148	1		14:52	X																			
ZZZZZZ			14:52																				
CCB 480-631684/150	1		14:52	X																			
ZZZZZZ			14:52																				
ZZZZZZ			14:57																				
ZZZZZZ			14:57																				
ZZZZZZ			14:57																				
ZZZZZZ			14:57																				
CCV 480-631684/156			14:57																				
ZZZZZZ			14:57																				
CCB 480-631684/158			14:57																				
ZZZZZZ			14:57																				
ZZZZZZ			14:58																				
ZZZZZZ			14:58																				
CCV 480-631684/162			14:58																				
ZZZZZZ			14:58																				
CCB 480-631684/164			14:58																				
ZZZZZZ			14:58																				
ZZZZZZ			14:59																				
ZZZZZZ			14:59																				
ZZZZZZ			14:59																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: KONE2 Method: SM 4500 Cl- E

Start Date: 06/26/2022 10:36 End Date: 06/26/2022 16:56

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
ZZZZZZ			14:59																				
ZZZZZZ			14:59																				
ZZZZZZ			14:59																				
ZZZZZZ			15:00																				
ZZZZZZ			15:00																				
CCV 480-631684/174			15:08																				
ZZZZZZ			15:08																				
CCB 480-631684/176			15:08																				
ZZZZZZ			15:08																				
ZZZZZZ			15:08																				
ZZZZZZ			15:08																				
ZZZZZZ			15:09																				
ZZZZZZ			15:09																				
ZZZZZZ			15:09																				
ZZZZZZ			15:09																				
ZZZZZZ			15:09																				
ZZZZZZ			15:09																				
CCV 480-631684/186			15:11																				
ZZZZZZ			15:11																				
CCB 480-631684/188			15:11																				
ZZZZZZ			15:11																				
ZZZZZZ			15:11																				
ZZZZZZ			15:11																				
ZZZZZZ			15:17																				
ZZZZZZ			15:17																				
ZZZZZZ			15:17																				
ZZZZZZ			15:17																				
ZZZZZZ			15:17																				
CCV 480-631684/197			15:36																				
ZZZZZZ			15:36																				
CCB 480-631684/199			15:36																				
ZZZZZZ			15:36																				
ZZZZZZ			15:36																				
ZZZZZZ			15:36																				
ZZZZZZ			15:36																				
ZZZZZZ			15:36																				
ZZZZZZ			15:38																				
ZZZZZZ			15:38																				
ZZZZZZ			15:38																				
ZZZZZZ			15:38																				
CCV 480-631684/209			15:38																				
ZZZZZZ			15:38																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: KONE2 Method: SM 4500 Cl- E

Start Date: 06/26/2022 10:36 End Date: 06/26/2022 16:56

Lab Sample ID	D / F	Type	Time	Analytes																			
				CL-																			
CCB 480-631684/211			15:38																				
ZZZZZZ			15:38																				
ZZZZZZ			15:38																				
ZZZZZZ			15:38																				
ZZZZZZ			15:38																				
ZZZZZZ			15:38																				
ZZZZZZ			15:40																				
ZZZZZZ			15:40																				
ZZZZZZ			15:40																				
ZZZZZZ			15:40																				
ZZZZZZ			15:40																				
ZZZZZZ			15:40																				
CCV 480-631684/223			15:45																				
ZZZZZZ			15:45																				
CCB 480-631684/225			15:45																				
ZZZZZZ			15:45																				
ZZZZZZ			15:46																				
ZZZZZZ			15:46																				
ZZZZZZ			15:47																				
ZZZZZZ			15:47																				
ZZZZZZ			15:47																				
ZZZZZZ			15:47																				
CCV 480-631684/233			15:47																				
ZZZZZZ			15:47																				
CCB 480-631684/235			15:47																				
ZZZZZZ			15:47																				
ZZZZZZ			15:47																				
ZZZZZZ			15:47																				
ZZZZZZ			15:48																				
ZZZZZZ			15:53																				
ZZZZZZ			15:53																				
ZZZZZZ			15:54																				
ZZZZZZ			15:54																				
ZZZZZZ			15:56																				
ZZZZZZ			15:56																				
ZZZZZZ			15:56																				
CCV 480-631684/247			16:04																				
ZZZZZZ			16:04																				
CCB 480-631684/249			16:04																				
ZZZZZZ			16:04																				
ZZZZZZ			16:04																				
ZZZZZZ			16:04																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: KONE2 Method: SM 4500 Cl- E

Start Date: 06/26/2022 10:36 End Date: 06/26/2022 16:56

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
CCV 480-631684/253			16:12																				
ZZZZZZ			16:12																				
CCB 480-631684/255			16:12																				
ZZZZZZ			16:12																				
ZZZZZZ			16:13																				
ZZZZZZ			16:13																				
ZZZZZZ			16:13																				
ZZZZZZ			16:19																				
ZZZZZZ			16:19																				
ZZZZZZ			16:19																				
ZZZZZZ			16:19																				
ZZZZZZ			16:19																				
CCV 480-631684/265			16:19																				
ZZZZZZ			16:19																				
CCB 480-631684/267			16:19																				
ZZZZZZ			16:19																				
ZZZZZZ			16:19																				
ZZZZZZ			16:19																				
ZZZZZZ			16:20																				
ZZZZZZ			16:20																				
ZZZZZZ			16:20																				
CCV 480-631684/274			16:22																				
ZZZZZZ			16:22																				
CCB 480-631684/276			16:22																				
ZZZZZZ			16:22																				
ZZZZZZ			16:28																				
ZZZZZZ			16:28																				
ZZZZZZ			16:28																				
ZZZZZZ			16:28																				
ZZZZZZ			16:28																				
CCV 480-631684/283			16:28																				
ZZZZZZ			16:28																				
CCB 480-631684/285			16:28																				
ZZZZZZ			16:28																				
ZZZZZZ			16:28																				
ZZZZZZ			16:28																				
ZZZZZZ			16:28																				
ZZZZZZ			16:30																				
ZZZZZZ			16:30																				
ZZZZZZ			16:30																				
ZZZZZZ			16:30																				
ZZZZZZ			16:30																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: KONE2 Method: SM 4500 Cl- E

Start Date: 06/26/2022 10:36 End Date: 06/26/2022 16:56

Lab Sample ID	D / F	Type	Time	Analytes																			
				CL-																			
CCV 480-631684/295			16:38																				
ZZZZZZ			16:38																				
CCB 480-631684/297			16:38																				
ZZZZZZ			16:38																				
ZZZZZZ			16:40																				
ZZZZZZ			16:40																				
ZZZZZZ			16:40																				
ZZZZZZ			16:40																				
ZZZZZZ			16:40																				
ZZZZZZ			16:40																				
CCV 480-631684/305			16:40																				
ZZZZZZ			16:40																				
CCB 480-631684/307			16:40																				
ZZZZZZ			16:40																				
ZZZZZZ			16:40																				
ZZZZZZ			16:40																				
ZZZZZZ			16:45																				
ZZZZZZ			16:45																				
ZZZZZZ			16:45																				
ZZZZZZ			16:45																				
ZZZZZZ			16:45																				
ZZZZZZ			16:47																				
CCV 480-631684/317			16:47																				
ZZZZZZ			16:47																				
CCB 480-631684/319			16:47																				
ZZZZZZ			16:47																				
ZZZZZZ			16:47																				
ZZZZZZ			16:48																				
ZZZZZZ			16:48																				
ZZZZZZ			16:48																				
ZZZZZZ			16:48																				
CCV 480-631684/326			16:49																				
ZZZZZZ			16:49																				
CCB 480-631684/328			16:49																				
ZZZZZZ			16:49																				
ZZZZZZ			16:55																				
ZZZZZZ			16:55																				
ZZZZZZ			16:55																				
ZZZZZZ			16:55																				
ZZZZZZ			16:55																				
ZZZZZZ			16:55																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: KONE2 Method: SM 4500 Cl- E

Start Date: 06/26/2022 10:36 End Date: 06/26/2022 16:56

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
ZZZZZZ			16:55																				
CCV 480-631684/338			16:55																				
ZZZZZZ			16:55																				
CCB 480-631684/340			16:55																				
ZZZZZZ			16:55																				
ZZZZZZ			16:55																				
ZZZZZZ			16:55																				
CCV 480-631684/344			16:56																				
ZZZZZZ			16:56																				
CCB 480-631684/346			16:56																				
ZZZZZZ			16:56																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: BOD1 Method: SM 5210B

Start Date: 06/07/2022 18:52 End Date: 06/07/2022 18:52

Lab Sample ID	D / F	Type	Time	Analytes																			
				BOD																			
USB 480-629154/1	1	T	18:52	X																			
LCS 480-629154/2	1	T	18:52	X																			
ZZZZZZ			18:52																				
480-198720-1	1	T	18:52	X																			
480-198720-2	1	T	18:52	X																			
480-198720-3	1	T	18:52	X																			
480-198720-4	1	T	18:52	X																			
ZZZZZZ			18:52																				
ZZZZZZ			18:52																				
ZZZZZZ			18:52																				
ZZZZZZ			18:52																				
ZZZZZZ			18:52																				
ZZZZZZ			18:52																				
ZZZZZZ			18:52																				
ZZZZZZ			18:52																				
ZZZZZZ			18:52																				
ZZZZZZ			18:52																				
ZZZZZZ			18:52																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: NOEQUIP Method: SM 5210B

Start Date: 06/09/2022 15:30 End Date: 06/09/2022 15:30

Lab Sample ID	D / F	Type	Time	Analytes																			
				BOD																			
USB 480-629517/1	1	T	15:30	X																			
LCS 480-629517/2	1	T	15:30	X																			
ZZZZZZ			15:30																				
480-198813-1	1	T	15:30	X																			
480-198813-2	1	T	15:30	X																			
480-198813-3	1	T	15:30	X																			
480-198813-4	1	T	15:30	X																			
480-198813-5	1	T	15:30	X																			
480-198813-6	1	T	15:30	X																			
480-198813-6 DU	1	T	15:30	X																			
480-198813-7	1	T	15:30	X																			
480-198813-8	1	T	15:30	X																			
480-198813-9	1	T	15:30	X																			
480-198813-10	1	T	15:30	X																			
ZZZZZZ			15:30																				
ZZZZZZ			15:30																				
ZZZZZZ			15:30																				
ZZZZZZ			15:30																				
ZZZZZZ			15:30																				
ZZZZZZ			15:30																				
ZZZZZZ			15:30																				
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ZZZZZZ			15:30																				
ZZZZZZ			15:30																				
ZZZZZZ			15:30																				
ZZZZZZ			15:30																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: TOC10301 Method: SM 5310C

Start Date: 06/15/2022 10:58 End Date: 06/16/2022 09:55

Lab Sample ID	D/F	Type	Time	Analytes																				
				TOC1	TOC2	TOCD																		
RINSE 480-630302/1			10:58																					
ICV 480-630302/2	1		11:13	X	X	X																		
ICB 480-630302/3	1		11:29	X	X	X																		
MB 480-630302/4	1	T	11:45	X	X	X																		
LCS 480-630302/5	1	T	12:01	X	X	X																		
ZZZZZZ			12:17																					
480-198813-1	1	T	12:32	X	X	X																		
480-198813-P-2 MS	1	T	12:48	X	X	X																		
480-198813-P-2 MSD	1	T	13:04	X	X	X																		
ZZZZZZ			13:20																					
ZZZZZZ			13:36																					
ZZZZZZ			13:53																					
ZZZZZZ			14:08																					
CCV 480-630302/14	1		14:24	X	X	X																		
CCB 480-630302/15	1		14:40	X	X	X																		
ZZZZZZ			14:56																					
480-198813-7	1	T	15:12	X	X	X																		
ZZZZZZ			15:28																					
ZZZZZZ			15:44																					
ZZZZZZ			16:00																					
ZZZZZZ			16:16																					
ZZZZZZ			16:32																					
ZZZZZZ			16:48																					
ZZZZZZ			17:04																					
ZZZZZZ			17:20																					
CCV 480-630302/26	1		17:36	X	X	X																		
CCB 480-630302/27	1		17:51	X	X	X																		
ZZZZZZ			18:07																					
ZZZZZZ			18:24																					
MB 480-629854/1-A	1	T	18:40	X	X	X																		
LCS 480-629854/2-A	1	T	18:56	X	X	X																		
ZZZZZZ			19:12																					
ZZZZZZ			19:28																					
ZZZZZZ			19:44																					
ZZZZZZ			20:00																					
ZZZZZZ			20:16																					
ZZZZZZ			20:32																					
CCV 480-630302/38	1		20:48	X	X	X																		
CCB 480-630302/39	1		21:04	X	X	X																		
ZZZZZZ			21:20																					
ZZZZZZ			21:36																					
ZZZZZZ			21:53																					

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: TOC10301 Method: SM 5310C

Start Date: 06/15/2022 10:58 End Date: 06/16/2022 09:55

Lab Sample ID	D / F	Type	Time	Analytes																				
				TOC1	TOC2	TOCD																		
ZZZZZZ			22:08																					
ZZZZZZ			22:24																					
ZZZZZZ			22:40																					
ZZZZZZ			22:56																					
ZZZZZZ			23:12																					
ZZZZZZ			23:28																					
ZZZZZZ			23:44																					
CCV 480-630302/50			00:00																					
CCB 480-630302/51			00:16																					
ZZZZZZ			00:32																					
ZZZZZZ			00:48																					
ZZZZZZ			01:04																					
ZZZZZZ			01:20																					
ZZZZZZ			01:37																					
ZZZZZZ			01:53																					
ZZZZZZ			02:09																					
ZZZZZZ			02:25																					
ZZZZZZ			02:41																					
ZZZZZZ			02:58																					
CCV 480-630302/62			03:13																					
CCB 480-630302/63			03:29																					
ZZZZZZ			03:45																					
ZZZZZZ			04:01																					
ZZZZZZ			04:18																					
ZZZZZZ			04:34																					
ZZZZZZ			04:50																					
ZZZZZZ			05:06																					
ZZZZZZ			05:22																					
ZZZZZZ			05:38																					
ZZZZZZ			05:54																					
ZZZZZZ			06:10																					
CCV 480-630302/74			06:26																					
CCB 480-630302/75			06:42																					
ZZZZZZ			06:58																					
ZZZZZZ			07:15																					
ZZZZZZ			07:30																					
ZZZZZZ			07:46																					
ZZZZZZ			08:03																					
ZZZZZZ			08:19																					
ZZZZZZ			08:35																					
ZZZZZZ			08:52																					
ZZZZZZ			09:08																					

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: TOC10301 Method: SM 5310C

Start Date: 06/15/2022 10:58 End Date: 06/16/2022 09:55

Lab Sample ID	D / F	Type	Time	Analytes																			
				TOC1	TOC2	TOCD																	
CCV 480-630302/85			09:23																				
CCB 480-630302/86			09:39																				
CCVL 480-630302/87	1		09:55	X	X	X																	

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: TOC10301 Method: SM 5310C

Start Date: 06/22/2022 11:06 End Date: 06/23/2022 10:19

Lab Sample ID	D/F	Type	Time	Analytes																				
				TOC1	TOC2	TOCD																		
RINSE 480-631325/1			11:06																					
CCV 480-631325/2			11:21																					
CCB 480-631325/3			11:37																					
ZZZZZZ			11:52																					
ZZZZZZ			12:08																					
ZZZZZZ			12:24																					
ZZZZZZ			12:40																					
ZZZZZZ			12:56																					
ZZZZZZ			13:12																					
ZZZZZZ			13:28																					
ZZZZZZ			13:44																					
ZZZZZZ			14:00																					
ZZZZZZ			14:16																					
CCV 480-631325/14			14:32																					
CCB 480-631325/15			14:48																					
ZZZZZZ			15:04																					
ZZZZZZ			15:20																					
ZZZZZZ			15:36																					
ZZZZZZ			15:52																					
ZZZZZZ			16:07																					
ZZZZZZ			16:24																					
ZZZZZZ			16:40																					
ZZZZZZ			16:55																					
ZZZZZZ			17:12																					
ZZZZZZ			17:27																					
CCV 480-631325/26	1		17:43	X	X	X																		
CCB 480-631325/27	1		17:59	X	X	X																		
MB 480-631325/28	1	T	18:15	X	X	X																		
LCS 480-631325/29	1	T	18:32	X	X	X																		
ZZZZZZ			18:47																					
ZZZZZZ			19:03																					
ZZZZZZ			19:19																					
ZZZZZZ			19:36																					
ZZZZZZ			19:51																					
ZZZZZZ			20:08																					
ZZZZZZ			20:24																					
ZZZZZZ			20:40																					
CCV 480-631325/38	1		20:56	X	X	X																		
CCB 480-631325/39	1		21:11	X	X	X																		
ZZZZZZ			21:28																					
ZZZZZZ			21:44																					
ZZZZZZ			22:00																					

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: TOC10301 Method: SM 5310C

Start Date: 06/22/2022 11:06 End Date: 06/23/2022 10:19

Lab Sample ID	D/F	Type	Time	Analytes																				
				TOC1	TOC2	TOCD																		
ZZZZZZ			22:17																					
ZZZZZZ			22:33																					
ZZZZZZ			22:49																					
ZZZZZZ			23:05																					
ZZZZZZ			23:21																					
480-198813-2	1	T	23:36	X	X	X																		
480-198813-3	1	T	23:53	X	X	X																		
CCV 480-631325/50	1		00:09	X	X	X																		
CCB 480-631325/51	1		00:24	X	X	X																		
MB 480-631325/52	1	T	00:40	X	X	X																		
LCS 480-631325/53	1	T	00:57	X	X	X																		
ZZZZZZ			01:12																					
ZZZZZZ			01:28																					
ZZZZZZ			01:44																					
ZZZZZZ			02:01																					
480-198813-4	1	T	02:17	X	X	X																		
480-198813-5	1	T	02:33	X	X	X																		
480-198813-6	1	T	02:49	X	X	X																		
480-198813-9	1	T	03:05	X	X	X																		
CCV 480-631325/62	1		03:21	X	X	X																		
CCB 480-631325/63	1		03:37	X	X	X																		
ZZZZZZ			03:53																					
ZZZZZZ			04:09																					
ZZZZZZ			04:25																					
ZZZZZZ			04:41																					
ZZZZZZ			04:58																					
ZZZZZZ			05:14																					
ZZZZZZ			05:30																					
ZZZZZZ			05:46																					
ZZZZZZ			06:02																					
ZZZZZZ			06:18																					
CCV 480-631325/74			06:34																					
CCB 480-631325/75			06:50																					
ZZZZZZ			07:06																					
ZZZZZZ			07:23																					
ZZZZZZ			07:38																					
ZZZZZZ			07:55																					
ZZZZZZ			08:11																					
ZZZZZZ			08:27																					
ZZZZZZ			08:43																					
ZZZZZZ			08:59																					
ZZZZZZ			09:15																					

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: TOC10301 Method: SM 5310C

Start Date: 06/22/2022 11:06 End Date: 06/23/2022 10:19

Lab Sample ID	D / F	Type	Time	Analytes																			
				TOC1	TOC2	TOCD																	
ZZZZZZ			09:31																				
CCV 480-631325/86			09:47																				
CCB 480-631325/87			10:03																				
ZZZZZZ			10:19																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: TOC10303 Method: SM 5310C

Start Date: 06/13/2022 17:39 End Date: 06/14/2022 12:51

Lab Sample ID	D / F	Type	Time	Analytes																				
				TOC1	TOC2	TOCD																		
RINSE 480-629996/1			17:39																					
ICV 480-629996/2	1		17:54	X	X	X																		
ICB 480-629996/3	1		18:12	X	X	X																		
ZZZZZZ			18:28																					
ZZZZZZ			18:43																					
ZZZZZZ			19:00																					
ZZZZZZ			19:15																					
ZZZZZZ			19:30																					
ZZZZZZ			19:47																					
ZZZZZZ			20:03																					
ZZZZZZ			20:20																					
ZZZZZZ			20:35																					
ZZZZZZ			20:53																					
CCV 480-629996/14			21:07																					
CCB 480-629996/15			21:25																					
ZZZZZZ			21:40																					
ZZZZZZ			21:56																					
ZZZZZZ			22:13																					
ZZZZZZ			22:28																					
ZZZZZZ			22:45																					
ZZZZZZ			23:00																					
ZZZZZZ			23:17																					
ZZZZZZ			23:33																					
ZZZZZZ			23:49																					
ZZZZZZ			00:05																					
CCV 480-629996/26	1		00:21	X	X	X																		
CCB 480-629996/27	1		00:38	X	X	X																		
MB 480-629996/28	1	T	00:54	X	X	X																		
LCS 480-629996/29	1	T	01:09	X	X	X																		
ZZZZZZ			01:25																					
ZZZZZZ			01:41																					
ZZZZZZ			01:58																					
480-198720-1	1	T	02:15	X	X	X																		
480-198720-2	1	T	02:32	X	X	X																		
480-198720-3	1	T	02:46	X	X	X																		
480-198720-4	1	T	03:03	X	X	X																		
ZZZZZZ			03:18																					
CCV 480-629996/38	1		03:34	X	X	X																		
CCB 480-629996/39	1		03:52	X	X	X																		
ZZZZZZ			04:08																					
ZZZZZZ			04:23																					
ZZZZZZ			04:39																					

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: TOC10303 Method: SM 5310C

Start Date: 06/13/2022 17:39 End Date: 06/14/2022 12:51

Lab Sample ID	D/F	Type	Time	Analytes																				
				TOC1	TOC2	TOCD																		
ZZZZZZ			04:55																					
ZZZZZZ			05:12																					
ZZZZZZ			05:28																					
ZZZZZZ			05:44																					
ZZZZZZ			06:00																					
ZZZZZZ			06:17																					
ZZZZZZ			06:32																					
CCV 480-629996/50			06:48																					
CCB 480-629996/51			07:06																					
ZZZZZZ			07:22																					
ZZZZZZ			07:37																					
ZZZZZZ			07:55																					
ZZZZZZ			08:10																					
ZZZZZZ			08:27																					
ZZZZZZ			08:47																					
ZZZZZZ			09:04																					
ZZZZZZ			09:21																					
ZZZZZZ			09:37																					
ZZZZZZ			09:52																					
CCV 480-629996/62			10:08																					
CCB 480-629996/63			10:25																					
ZZZZZZ			10:40																					
ZZZZZZ			10:56																					
ZZZZZZ			11:13																					
ZZZZZZ			11:30																					
ZZZZZZ			11:46																					
ZZZZZZ			12:03																					
CCV 480-629996/70			12:18																					
CCB 480-629996/71			12:35																					
CCVL 480-629996/72	1		12:51	X	X	X																		

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: TOC10303 Method: SM 5310C

Start Date: 06/17/2022 12:53 End Date: 06/19/2022 04:50

Lab Sample ID	D / F	Type	Time	Analytes																				
				TOC1	TOC2	TOCD																		
RINSE 480-630732/1			12:53																					
CCV 480-630732/2			13:23																					
CCB 480-630732/3			13:53																					
ZZZZZZ			14:24																					
ZZZZZZ			14:52																					
ZZZZZZ			15:21																					
ZZZZZZ			15:51																					
ZZZZZZ			16:20																					
ZZZZZZ			16:51																					
ZZZZZZ			17:21																					
ZZZZZZ			17:49																					
ZZZZZZ			18:19																					
ZZZZZZ			18:48																					
CCV 480-630732/14			19:17																					
CCB 480-630732/15			19:46																					
ZZZZZZ			20:16																					
ZZZZZZ			20:46																					
ZZZZZZ			21:15																					
ZZZZZZ			21:44																					
ZZZZZZ			22:12																					
ZZZZZZ			22:43																					
ZZZZZZ			23:11																					
ZZZZZZ			23:39																					
ZZZZZZ			00:09																					
ZZZZZZ			00:38																					
CCV 480-630732/26			01:07																					
CCB 480-630732/27			01:38																					
ZZZZZZ			02:06																					
ZZZZZZ			02:36																					
ZZZZZZ			03:05																					
ZZZZZZ			03:35																					
ZZZZZZ			04:06																					
ZZZZZZ			04:36																					
ZZZZZZ			05:05																					
ZZZZZZ			05:34																					
ZZZZZZ			06:04																					
ZZZZZZ			06:33																					
CCV 480-630732/38			07:02																					
CCB 480-630732/39			07:33																					
ZZZZZZ			08:04																					
ZZZZZZ			08:34																					
ZZZZZZ			09:03																					

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: TOC10303 Method: SM 5310C

Start Date: 06/17/2022 12:53 End Date: 06/19/2022 04:50

Lab Sample ID	D/F	Type	Time	Analytes																				
				TOC1	TOC2	TOCD																		
ZZZZZZ			09:32																					
ZZZZZZ			10:03																					
ZZZZZZ			10:32																					
ZZZZZZ			11:02																					
ZZZZZZ			11:31																					
ZZZZZZ			12:02																					
ZZZZZZ			12:32																					
CCV 480-630732/50	1		13:01	X	X	X																		
CCB 480-630732/51	1		13:30	X	X	X																		
MB 480-630732/52	1	T	14:00	X	X	X																		
LCS 480-630732/53	1	T	14:29	X	X	X																		
ZZZZZZ			14:58																					
ZZZZZZ			15:30																					
ZZZZZZ			15:58																					
ZZZZZZ			16:27																					
ZZZZZZ			16:57																					
ZZZZZZ			17:28																					
ZZZZZZ			17:57																					
ZZZZZZ			18:27																					
CCV 480-630732/62	1		18:56	X	X	X																		
CCB 480-630732/63	1		19:26	X	X	X																		
ZZZZZZ			19:57																					
ZZZZZZ			20:28																					
ZZZZZZ			20:57																					
ZZZZZZ			21:26																					
ZZZZZZ			21:56																					
ZZZZZZ			22:25																					
480-198813-8	1	T	22:55	X	X	X																		
ZZZZZZ			23:24																					
480-198813-10	1	T	23:54	X	X	X																		
ZZZZZZ			00:24																					
CCV 480-630732/74	1		00:55	X	X	X																		
CCB 480-630732/75	1		01:24	X	X	X																		
ZZZZZZ			01:53																					
ZZZZZZ			02:23																					
ZZZZZZ			02:52																					
ZZZZZZ			03:23																					
CCV 480-630732/80			03:51																					
CCB 480-630732/81			04:22																					
CCVL 480-630732/82	1		04:50	X	X	X																		

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Instrument ID: TOC10303 Method: SM 5310C

Start Date: 06/17/2022 12:53 End Date: 06/19/2022 04:50

Prep Types
T = Total/NA

General Chemistry Raw Data Report

Job ID: 480-198720-1
SDG: 198720

Batch: 630049 **Analyst Initials: CSS**
Method: 410.4 **Instrument: Manual Spec**

Lab Sample ID: CCV 480-630049/1

Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.221	75.03790	mg/L	2 mL	2 mL

Lab Sample ID: CCB 480-630049/2

Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.446	-1.484600	mg/L	2 mL	2 mL

Lab Sample ID: MB 480-630049/3

Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.447	-1.824700	mg/L	2 mL	2 mL

Lab Sample ID: LCS 480-630049/4

Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.368	25.04320	mg/L	2 mL	2 mL

Lab Sample ID: 480-198720-C-4

Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.430	3.957000	mg/L	2 mL	2 mL

Lab Sample ID: 480-198720-C-4 MS

Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.271	58.03290	mg/L	2 mL	2 mL

Lab Sample ID: 480-198720-C-4 MSD

Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.279	55.31210	mg/L	2 mL	2 mL

Lab Sample ID: 480-198720-C-1

Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.441	0.2159000	mg/L	2 mL	2 mL

Lab Sample ID: 480-198720-C-2

Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.454	-4.205400	mg/L	2 mL	2 mL

Lab Sample ID: 480-198720-C-3

Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.434	2.596600	mg/L	2 mL	2 mL

Lab Sample ID: CCV 480-630049/13

Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.224	74.01760	mg/L	2 mL	2 mL

Batch: 630049 (Continued)
Method: 410.4

Analyst Initials: CSS
Instrument: Manual Spec

Lab Sample ID: CCB 480-630049/14

Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.447	-1.824700	mg/L	2 mL	2 mL

Lab Sample ID: CCV 480-630049/25

Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.222	74.69780	mg/L	2 mL	2 mL

Lab Sample ID: CCB 480-630049/26

Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.445	-1.144500	mg/L	2 mL	2 mL

Lab Sample ID: MB 480-630049/27

Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.444	-0.8044000	mg/L	2 mL	2 mL

Lab Sample ID: LCS 480-630049/28

Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.371	24.02290	mg/L	2 mL	2 mL

Lab Sample ID: 480-198813-C-6

Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.434	2.596600	mg/L	2 mL	2 mL

Lab Sample ID: 480-198813-C-6 MS

Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.271	58.03290	mg/L	2 mL	2 mL

Lab Sample ID: 480-198813-C-6 MSD

Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.274	57.01260	mg/L	2 mL	2 mL

Lab Sample ID: 480-198813-C-1

Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.422	6.677800	mg/L	2 mL	2 mL

Lab Sample ID: 480-198813-C-2

Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.386	18.92140	mg/L	2 mL	2 mL

Lab Sample ID: 480-198813-C-3

Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.383	19.94170	mg/L	2 mL	2 mL

Batch: 630049 (Continued)
Method: 410.4

Analyst Initials: CSS
Instrument: Manual Spec

Lab Sample ID: 480-198813-C-4 — Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.417	8.378300	mg/L	2 mL	2 mL

Lab Sample ID: 480-198813-C-5 — Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.447	-1.824700	mg/L	2 mL	2 mL

Lab Sample ID: CCV 480-630049/37 — Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.224	74.01760	mg/L	2 mL	2 mL

Lab Sample ID: CCB 480-630049/38 — Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.445	-1.144500	mg/L	2 mL	2 mL

Lab Sample ID: 480-198813-C-9 — Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.443	-0.4643000	mg/L	2 mL	2 mL

Lab Sample ID: 480-198813-C-9 MS — Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.278	55.65220	mg/L	2 mL	2 mL

Lab Sample ID: 480-198813-C-7 — Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.451	-3.185100	mg/L	2 mL	2 mL

Lab Sample ID: 480-198813-C-8 — Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.361	27.42390	mg/L	2 mL	2 mL

Lab Sample ID: 480-198813-C-10 — Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.426	5.317400	mg/L	2 mL	2 mL

Lab Sample ID: CCV 480-630049/49 — Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.221	75.03790	mg/L	2 mL	2 mL

Lab Sample ID: CCB 480-630049/50 — Analysis Date: Jun 14, 2022 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.441	0.2159000	mg/L	2 mL	2 mL

General Chemistry Raw Data Report

Job ID: 480-198720-1
SDG: 198720

Batch: 629118 **Analyst Initials: EAG**
Method: 7196A **Instrument: Manual Spec**

Lab Sample ID: CCV 480-629118/1 **Analysis Date: Jun 07, 2022 11:00**

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0390	0.042791000	mg/L	25 mL

Lab Sample ID: CCB 480-629118/2 **Analysis Date: Jun 07, 2022 11:00**

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Lab Sample ID: MB 480-629118/3 **Analysis Date: Jun 07, 2022 11:00**

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Lab Sample ID: LCS 480-629118/4 **Analysis Date: Jun 07, 2022 11:00**

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0480	0.053429000	mg/L	25 mL

Lab Sample ID: CCV 480-629118/13 **Analysis Date: Jun 07, 2022 11:00**

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0450	0.049883000	mg/L	25 mL

Lab Sample ID: CCV 480-629118/14 **Analysis Date: Jun 07, 2022 11:00**

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Lab Sample ID: 480-198720-L-1 **Analysis Date: Jun 07, 2022 11:00**

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Lab Sample ID: 480-198720-L-2 **Analysis Date: Jun 07, 2022 11:00**

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Lab Sample ID: CCV 480-629118/25 **Analysis Date: Jun 07, 2022 11:00**

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0460	0.051065000	mg/L	25 mL

Lab Sample ID: CCB 480-629118/26 **Analysis Date: Jun 07, 2022 11:00**

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Lab Sample ID: MB 480-629118/27 **Analysis Date: Jun 07, 2022 11:00**

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Batch: 629118 (Continued)
Method: 7196A

Analyst Initials: EAG
Instrument: Manual Spec

Lab Sample ID: LCS 480-629118/28

Analysis Date: Jun 07, 2022 11:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0450	0.049883000	mg/L	25 mL

Lab Sample ID: 480-198720-L-3

Analysis Date: Jun 07, 2022 11:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Lab Sample ID: 480-198720-L-3 DU

Analysis Date: Jun 07, 2022 11:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Lab Sample ID: 480-198720-K-4

Analysis Date: Jun 07, 2022 11:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Lab Sample ID: 480-198720-K-4 MS

Analysis Date: Jun 07, 2022 11:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0420	0.046337000	mg/L	25 mL

Lab Sample ID: CCV 480-629118/34

Analysis Date: Jun 07, 2022 11:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0420	0.046337000	mg/L	25 mL

Lab Sample ID: CCB 480-629118/35

Analysis Date: Jun 07, 2022 11:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Batch: 629426
Method: 7196A

Analyst Initials: EAG
Instrument: Manual Spec

Lab Sample ID: CCV 480-629426/1

Analysis Date: Jun 09, 2022 10:15

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0430	0.047519000	mg/L	25 mL

Lab Sample ID: CCB 480-629426/2

Analysis Date: Jun 09, 2022 10:15

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Lab Sample ID: MB 480-629426/3

Analysis Date: Jun 09, 2022 10:15

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Batch: 629426 (Continued)
Method: 7196A

Analyst Initials: EAG
Instrument: Manual Spec

Lab Sample ID: LCS 480-629426/4
Analysis Date: Jun 09, 2022 10:15

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0420	0.046337000	mg/L	25 mL

Lab Sample ID: 480-198813-K-4
Analysis Date: Jun 09, 2022 10:15

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Lab Sample ID: 480-198813-K-4 DU
Analysis Date: Jun 09, 2022 10:15

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Lab Sample ID: 480-198813-K-5
Analysis Date: Jun 09, 2022 10:15

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Lab Sample ID: 480-198813-K-5 MS
Analysis Date: Jun 09, 2022 10:15

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0390	0.042791000	mg/L	25 mL

Lab Sample ID: 480-198813-K-6
Analysis Date: Jun 09, 2022 10:15

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Lab Sample ID: 480-198813-K-1
Analysis Date: Jun 09, 2022 10:15

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Lab Sample ID: 480-198813-K-2
Analysis Date: Jun 09, 2022 10:15

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Lab Sample ID: 480-198813-K-3
Analysis Date: Jun 09, 2022 10:15

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Lab Sample ID: CCV 480-629426/13
Analysis Date: Jun 09, 2022 10:15

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0470	0.052247000	mg/L	25 mL

Lab Sample ID: CCB 480-629426/14
Analysis Date: Jun 09, 2022 10:15

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Batch: 629426 (Continued)
Method: 7196A

Analyst Initials: EAG
Instrument: Manual Spec

Lab Sample ID: 480-198813-K-7

Analysis Date: Jun 09, 2022 10:15

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Lab Sample ID: 480-198813-K-7 DU

Analysis Date: Jun 09, 2022 10:15

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Lab Sample ID: 480-198813-K-9

Analysis Date: Jun 09, 2022 10:15

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Lab Sample ID: 480-198813-K-9 MS

Analysis Date: Jun 09, 2022 10:15

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0410	0.045155000	mg/L	25 mL

Lab Sample ID: 480-198813-K-8

Analysis Date: Jun 09, 2022 10:15

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Lab Sample ID: 480-198813-K-10

Analysis Date: Jun 09, 2022 10:15

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Lab Sample ID: CCV 480-629426/24

Analysis Date: Jun 09, 2022 10:15

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0480	0.053429000	mg/L	25 mL

Lab Sample ID: CCB 480-629426/25

Analysis Date: Jun 09, 2022 10:15

Analyte	Detector	Dilution	Response	Raw Result	Unit	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0033070000	mg/L	25 mL

Batch: 629139
Method: SM 2120B

Analyst Initials: EJL
Instrument: No Equipment Used for this Test

Lab Sample ID: CCV 480-629139/1

Analysis Date: Jun 07, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	30	Color Units	50 mL	50 mL

Lab Sample ID: CCB 480-629139/2

Analysis Date: Jun 07, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	<5	Color Units	50 mL	50 mL

Batch: 629139 (Continued)
Method: SM 2120B

Analyst Initials: EJL
Instrument: No Equipment Used for this Test

Lab Sample ID: MB 480-629139/3

Analysis Date: Jun 07, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	<5	Color Units	50 mL	50 mL

Lab Sample ID: LCS 480-629139/4

Analysis Date: Jun 07, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	30	Color Units	50 mL	50 mL

Lab Sample ID: 480-198720-J-1

Analysis Date: Jun 07, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	15	Color Units	50 mL	50 mL

Lab Sample ID: 480-198720-J-2

Analysis Date: Jun 07, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	10	Color Units	50 mL	50 mL

Lab Sample ID: 480-198720-J-3

Analysis Date: Jun 07, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	5	Color Units	50 mL	50 mL

Lab Sample ID: 480-198720-I-4

Analysis Date: Jun 07, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	5	Color Units	50 mL	50 mL

Batch: 629501
Method: SM 2120B

Analyst Initials: EJL
Instrument: No Equipment Used for this Test

Lab Sample ID: CCV 480-629501/1

Analysis Date: Jun 09, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	30	Color Units	50 mL	50 mL

Lab Sample ID: CCB 480-629501/2

Analysis Date: Jun 09, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	<5	Color Units	50 mL	50 mL

Lab Sample ID: MB 480-629501/3

Analysis Date: Jun 09, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	<5	Color Units	50 mL	50 mL

Lab Sample ID: LCS 480-629501/4

Analysis Date: Jun 09, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	30	Color Units	50 mL	50 mL

Batch: 629501 (Continued)
Method: SM 2120B

Analyst Initials: EJL
Instrument: No Equipment Used for this Test

Lab Sample ID: 480-198813-I-1
Analysis Date: Jun 09, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	10	Color Units	50 mL	50 mL

Lab Sample ID: 480-198813-I-1 DU
Analysis Date: Jun 09, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	10	Color Units	50 mL	50 mL

Lab Sample ID: 480-198813-I-2
Analysis Date: Jun 09, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	10	Color Units	50 mL	50 mL

Lab Sample ID: 480-198813-I-3
Analysis Date: Jun 09, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	10	Color Units	50 mL	50 mL

Lab Sample ID: 480-198813-I-4
Analysis Date: Jun 09, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	15	Color Units	50 mL	50 mL

Lab Sample ID: 480-198813-I-5
Analysis Date: Jun 09, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	10	Color Units	50 mL	50 mL

Lab Sample ID: 480-198813-I-6
Analysis Date: Jun 09, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	10	Color Units	50 mL	50 mL

Lab Sample ID: 480-198813-I-7
Analysis Date: Jun 09, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	10	Color Units	50 mL	50 mL

Lab Sample ID: CCV 480-629501/13
Analysis Date: Jun 09, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	30	Color Units	50 mL	50 mL

Lab Sample ID: CCB 480-629501/14
Analysis Date: Jun 09, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	<5	Color Units	50 mL	50 mL

Lab Sample ID: 480-198813-I-8
Analysis Date: Jun 09, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	10	Color Units	50 mL	50 mL

Batch: 629501 (Continued)
Method: SM 2120B

Analyst Initials: EJL
Instrument: No Equipment Used for this Test

Lab Sample ID: 480-198813-I-8 DU

Analysis Date: Jun 09, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	10	Color Units	50 mL	50 mL

Lab Sample ID: 480-198813-I-9

Analysis Date: Jun 09, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	10	Color Units	50 mL	50 mL

Lab Sample ID: 480-198813-I-10

Analysis Date: Jun 09, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	25	Color Units	50 mL	50 mL

Lab Sample ID: CCV 480-629501/21

Analysis Date: Jun 09, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	30	Color Units	50 mL	50 mL

Lab Sample ID: CCB 480-629501/22

Analysis Date: Jun 09, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	<5	Color Units	50 mL	50 mL

Batch: 629156
Method: 353.2

Analyst Initials: CSS
Instrument: Lachat QuickChem 8500

Lab Sample ID: 480-198720-J-1

Analysis Date: Jun 07, 2022 19:33

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Nitrate as N	UV	1	0	mg/L	5 mL	5 mL

Lab Sample ID: 480-198720-J-2

Analysis Date: Jun 07, 2022 19:35

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Nitrate as N	UV	1	0	mg/L	5 mL	5 mL

Lab Sample ID: 480-198720-J-3

Analysis Date: Jun 07, 2022 19:36

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Nitrate as N	UV	1	0	mg/L	5 mL	5 mL

Lab Sample ID: 480-198720-I-4

Analysis Date: Jun 07, 2022 19:38

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Nitrate as N	UV	1	0	mg/L	5 mL	5 mL

General Chemistry Raw Data Report

Job ID: 480-198720-1
SDG: 198720

Batch: 629525 **Analyst Initials: CSS**
Method: 353.2 **Instrument: Lachat QuickChem 8500**

Lab Sample ID: 480-198813-I-6 **Analysis Date: Jun 09, 2022 20:04**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Nitrate as N	UV	1	0	mg/L	5 mL	5 mL

Lab Sample ID: 480-198813-I-4 **Analysis Date: Jun 09, 2022 20:07**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Nitrate as N	UV	1	0.057	mg/L	5 mL	5 mL

Lab Sample ID: 480-198813-I-1 **Analysis Date: Jun 09, 2022 20:10**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Nitrate as N	UV	1	0	mg/L	5 mL	5 mL

Lab Sample ID: 480-198813-I-2 **Analysis Date: Jun 09, 2022 20:11**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Nitrate as N	UV	1	0.25	mg/L	5 mL	5 mL

Lab Sample ID: 480-198813-I-3 **Analysis Date: Jun 09, 2022 20:12**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Nitrate as N	UV	1	0	mg/L	5 mL	5 mL

Lab Sample ID: 480-198813-I-5 **Analysis Date: Jun 09, 2022 20:14**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Nitrate as N	UV	1	0	mg/L	5 mL	5 mL

Lab Sample ID: 480-198813-I-9 **Analysis Date: Jun 09, 2022 20:18**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Nitrate as N	UV	1	0.056	mg/L	5 mL	5 mL

Lab Sample ID: 480-198813-I-10 **Analysis Date: Jun 09, 2022 20:21**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Nitrate as N	UV	1	0	mg/L	5 mL	5 mL

Lab Sample ID: 480-198813-I-8 **Analysis Date: Jun 09, 2022 20:23**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Nitrate as N	UV	1	0.075	mg/L	5 mL	5 mL

Lab Sample ID: 480-198813-I-7 **Analysis Date: Jun 09, 2022 20:25**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Nitrate as N	UV	1	0	mg/L	5 mL	5 mL

General Chemistry Raw Data Report

Job ID: 480-198720-1
SDG: 198720

Batch: 629374
Method: SM 2540C

Analyst Initials: SAK
Instrument: Balance-3

Lab Sample ID: MB 480-629374/1

Analysis Date: Jun 09, 2022 09:41

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	0	mg/L	100 mL	100 mL

Lab Sample ID: LCS 480-629374/2

Analysis Date: Jun 09, 2022 09:41

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	472	mg/L	100 mL	100 mL

Lab Sample ID: 480-198720-B-3

Analysis Date: Jun 09, 2022 09:41

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	147	mg/L	100 mL	100 mL

Lab Sample ID: 480-198720-B-3 DU

Analysis Date: Jun 09, 2022 09:41

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	145	mg/L	100 mL	100 mL

Lab Sample ID: 480-198720-B-4

Analysis Date: Jun 09, 2022 09:41

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	343	mg/L	100 mL	100 mL

Batch: 629377
Method: SM 2540C

Analyst Initials: SAK
Instrument: Balance-3

Lab Sample ID: MB 480-629377/1

Analysis Date: Jun 09, 2022 09:45

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	0	mg/L	100 mL	100 mL

Lab Sample ID: LCS 480-629377/2

Analysis Date: Jun 09, 2022 09:45

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	459	mg/L	100 mL	100 mL

Lab Sample ID: 480-198720-B-1

Analysis Date: Jun 09, 2022 09:45

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	173	mg/L	100 mL	100 mL

Lab Sample ID: 480-198720-B-2

Analysis Date: Jun 09, 2022 09:45

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	166	mg/L	100 mL	100 mL

Lab Sample ID: 480-198720-B-2 DU

Analysis Date: Jun 09, 2022 09:45

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	176	mg/L	100 mL	100 mL

General Chemistry Raw Data Report

Job ID: 480-198720-1
SDG: 198720

Batch: 629552 **Analyst Initials: SAK**
Method: SM 2540C **Instrument: Balance-3**

Lab Sample ID: MB 480-629552/1 **Analysis Date: Jun 10, 2022 09:23**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	0	mg/L	100 mL	100 mL

Lab Sample ID: LCS 480-629552/2 **Analysis Date: Jun 10, 2022 09:23**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	463	mg/L	100 mL	100 mL

Lab Sample ID: 480-198813-B-1 **Analysis Date: Jun 10, 2022 09:23**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	227	mg/L	100 mL	100 mL

Lab Sample ID: 480-198813-B-2 **Analysis Date: Jun 10, 2022 09:23**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	329	mg/L	100 mL	100 mL

Lab Sample ID: 480-198813-B-3 **Analysis Date: Jun 10, 2022 09:23**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	722	mg/L	100 mL	100 mL

Lab Sample ID: 480-198813-B-4 **Analysis Date: Jun 10, 2022 09:23**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	195	mg/L	100 mL	100 mL

Lab Sample ID: 480-198813-B-5 **Analysis Date: Jun 10, 2022 09:23**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	219	mg/L	100 mL	100 mL

Lab Sample ID: 480-198813-B-6 **Analysis Date: Jun 10, 2022 09:23**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	405	mg/L	100 mL	100 mL

Lab Sample ID: 480-198813-B-8 **Analysis Date: Jun 10, 2022 09:23**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	426	mg/L	100 mL	100 mL

Lab Sample ID: 480-198813-B-7 **Analysis Date: Jun 10, 2022 09:23**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	162	mg/L	100 mL	100 mL

Lab Sample ID: 480-198813-B-7 DU **Analysis Date: Jun 10, 2022 09:23**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	162	mg/L	100 mL	100 mL

General Chemistry Raw Data Report

Job ID: 480-198720-1
SDG: 198720

Batch: 629750
Method: SM 2540C

Analyst Initials: SAK
Instrument: Balance-3

Lab Sample ID: MB 480-629750/1

Analysis Date: Jun 13, 2022 09:26

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	0	mg/L	100 mL	100 mL

Lab Sample ID: LCS 480-629750/2

Analysis Date: Jun 13, 2022 09:26

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	500	mg/L	100 mL	100 mL

Lab Sample ID: 480-198813-B-9

Analysis Date: Jun 13, 2022 09:26

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	285	mg/L	100 mL	100 mL

Lab Sample ID: 480-198813-B-10

Analysis Date: Jun 13, 2022 09:26

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	423	mg/L	100 mL	100 mL

Batch: 629154
Method: SM 5210B

Analyst Initials: CSS
Instrument: BOD AutoAnalyzer

Lab Sample ID: USB 480-629154/1

Analysis Date: Jun 07, 2022 18:52

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	1.11	mg/L	300 mL	300 mL

Lab Sample ID: LCS 480-629154/2

Analysis Date: Jun 07, 2022 18:52

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	246.10	mg/L	300 mL	300 mL

Lab Sample ID: 480-198720-A-1

Analysis Date: Jun 07, 2022 18:52

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	<0.97	mg/L	300 mL	300 mL

Lab Sample ID: 480-198720-A-2

Analysis Date: Jun 07, 2022 18:52

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	<0.55	mg/L	300 mL	300 mL

Lab Sample ID: 480-198720-A-3

Analysis Date: Jun 07, 2022 18:52

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	<0.27	mg/L	300 mL	300 mL

Lab Sample ID: 480-198720-A-4

Analysis Date: Jun 07, 2022 18:52

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	<0.69	mg/L	300 mL	300 mL

General Chemistry Raw Data Report

Job ID: 480-198720-1
SDG: 198720

Batch: 629517 **Analyst Initials: CSS**
Method: SM 5210B **Instrument: No Equipment Used for this Test**

Lab Sample ID: USB 480-629517/1 **Analysis Date: Jun 09, 2022 15:30**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	0.69	mg/L	300 mL	300 mL

Lab Sample ID: LCS 480-629517/2 **Analysis Date: Jun 09, 2022 15:30**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	196.3	mg/L	300 mL	300 mL

Lab Sample ID: 480-198813-A-1 **Analysis Date: Jun 09, 2022 15:30**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	<0.11	mg/L	300 mL	300 mL

Lab Sample ID: 480-198813-A-2 **Analysis Date: Jun 09, 2022 15:30**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	1.42	mg/L	300 mL	300 mL

Lab Sample ID: 480-198813-A-3 **Analysis Date: Jun 09, 2022 15:30**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	1.58	mg/L	300 mL	300 mL

Lab Sample ID: 480-198813-A-4 **Analysis Date: Jun 09, 2022 15:30**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	1.18	mg/L	300 mL	300 mL

Lab Sample ID: 480-198813-A-5 **Analysis Date: Jun 09, 2022 15:30**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	2.26	mg/L	300 mL	300 mL

Lab Sample ID: 480-198813-A-6 **Analysis Date: Jun 09, 2022 15:30**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	0.8	mg/L	300 mL	300 mL

Lab Sample ID: 480-198813-A-6 DU **Analysis Date: Jun 09, 2022 15:30**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	<0.44	mg/L	100 mL	300 mL

Lab Sample ID: 480-198813-A-7 **Analysis Date: Jun 09, 2022 15:30**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	<0.71	mg/L	300 mL	300 mL

Lab Sample ID: 480-198813-A-8 **Analysis Date: Jun 09, 2022 15:30**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	4.70	mg/L	300 mL	300 mL

Batch: 629517 (Continued)

Analyst Initials: CSS

Method: SM 5210B

Instrument: No Equipment Used for this Test

Lab Sample ID: 480-198813-A-9

Analysis Date: Jun 09, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	1.97	mg/L	300 mL	300 mL

Lab Sample ID: 480-198813-A-10

Analysis Date: Jun 09, 2022 15:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	<0.76	mg/L	300 mL	300 mL

629307

Alkalinity

310.2

1000 PPM (MS/MSD/CAL)	6983024	EXP: 08/03/2022
50 PPM (CCV/LCS)	7022969	EXP: 09/06/2022
Alk. Mix:	7025852	EXP: 06/09/2022
3.1 Buffer	7022966	EXP: 06/13/2022
Methyl orange	7012292	EXP: 06/27/2022
ERA Minerals (ICV):	6318066	EXP: 04/01/2023

Actual = 32.35 MG/L
RANGE = 29.3 – 34.9 MG/L

CURVE:

Kone 1: 06-13-2019 Batch: 478010
100 ppm: 5352372

Kone 2: 01-20-2022 Batch: 612322
100 ppm: 6845169

Kone 3: 01-28-2020 Batch: 515266
100 ppm: 5749493

Gallery 1: 06-06-2022 Batch: 628970
100 ppm: 7022968

Results by Test

Date 6/8/2022 **User** BufGallery1

Time 5:14:55PM **Software version: 6.0.2**

Test name ALK

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
1	CCB	1.4	-4.70	mg/l		0.0	man acc	Outside calibration
2	CCV ALK	1.4	52.18	mg/l		0.0	man acc	
3	LCS ALK	1.4	51.17	mg/l		0.0	man acc	
4	MB	1.4	-1.02	mg/l		0.0	man acc	Outside calibration
5	ICV	1.4	33.59	mg/l		0.0	man acc	
6	CCB	1.4	0.93	mg/l		0.0	man acc	Outside calibration
7	CCV ALK	1.4	51.42	mg/l		0.0	man acc	
8	LCS ALK	1.4	51.26	mg/l		0.0	man acc	
9	MB	1.4	-0.79	mg/l		0.0	man acc	Outside calibration
10	CCB	1.4	5.31	mg/l		0.0	man acc	Outside calibration
11	CCV ALK	1.4	51.36	mg/l		0.0	man acc	
12	LCS ALK	1.4	51.98	mg/l		0.0	man acc	
13	MB	1.4	-0.17	mg/l		0.0	man acc	Outside calibration
18	480-198651-U-1	1.4	562.01	mg/l		9.0	man acc	
19	480-198651-U-2	1.4	705.24	mg/l		9.0	man acc	
20	480-198651-U-2 MS	1.4	714.06	mg/l		9.0	man acc	
21	480-198651-U-2 MS	1.4	714.87	mg/l		9.0	man acc	
22	CCB	1.4	0.00	mg/l		0.0	man acc	Outside calibration
23	CCV ALK	1.4	53.12	mg/l		0.0	man acc	
24	LCS ALK	1.4	49.75	mg/l		0.0	man acc	
25	MB	1.4	-5.33	mg/l		0.0	man acc	Outside calibration
26	480-198651-U-3	1.4	655.84	mg/l		9.0	man acc	
27	480-198651-U-4	1.4	553.62	mg/l		9.0	man acc	
28	480-198651-U-5	1.4	562.77	mg/l		9.0	man acc	
29	480-198665-C-3	1.4	3.13	mg/l		0.0	man acc	Outside calibration
30	480-198665-B-21	1.4	82.44	mg/l		0.0	man acc	
31	480-198665-C-22	1.4	182.54	mg/l		4.0	man acc	
32	480-198665-C-23	1.4	447.66	mg/l		9.0	man acc	
33	480-198665-C-24	1.4	78.11	mg/l		0.0	man acc	
34	CCB	1.4	-0.98	mg/l		0.0	man acc	Outside calibration
35	CCV ALK	1.4	49.54	mg/l		0.0	man acc	
36	LCS ALK	1.4	51.06	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
37	MB	1.4	-0.86	mg/l		0.0	man acc	Outside calibration
38	480-198665-C-25	1.4	109.44	mg/l		4.0	man acc	
40	CCB	1.4	-1.70	mg/l		0.0	man acc	Outside calibration
41	CCV ALK	1.4	49.16	mg/l		0.0	man acc	
42	LCS ALK	1.4	48.21	mg/l		0.0	man acc	
43	MB	1.4	-0.74	mg/l		0.0	man acc	Outside calibration
44	ms 480-198665-C-2	1.4	391.94	mg/l		9.0	man acc	
45	msd 480-198665-C-	1.4	294.64	mg/l		9.0	man acc	
46	CCB	1.4	1.96	mg/l		0.0	man acc	Outside calibration
47	480-198665-C-27	1.4	336.05	mg/l		9.0	man acc	
48	480-198665-C-28	1.4	174.25	mg/l		4.0	man acc	
49	480-198665-C-29	1.4	105.87	mg/l		1.0	man acc	
50	CCV ALK	1.4	49.85	mg/l		0.0	man acc	
51	LCS ALK	1.4	53.32	mg/l		0.0	man acc	
52	480-198719-N-1	1.4	529.74	mg/l		5.0	man acc	
54	MB	1.4	-3.61	mg/l		0.0	man acc	Outside calibration
56	CCB	1.4	-1.50	mg/l		0.0	man acc	Outside calibration
57	CCV ALK	1.4	50.08	mg/l		0.0	man acc	
58	LCS ALK	1.4	49.60	mg/l		0.0	man acc	
59	480-198720-L-2	1.4	136.72	mg/l		2.0	man acc	
60	480-198720-H-3	1.4	110.49	mg/l		2.0	man acc	
61	MB	1.4	2.85	mg/l		0.0	man acc	Outside calibration
66	CCB	1.4	-4.13	mg/l		0.0	man acc	Outside calibration
67	CCV ALK	1.4	53.64	mg/l		0.0	man acc	
68	LCS ALK	1.4	47.99	mg/l		0.0	man acc	
69	MB	1.4	-5.94	mg/l		0.0	man acc	Outside calibration
70	480-198720-J-4	1.4	144.22	mg/l		1.0	man acc	
71	CCB	1.4	-0.93	mg/l		0.0	man acc	Outside calibration
72	CCV ALK	1.4	50.20	mg/l		0.0	man acc	
73	LCS ALK	1.4	50.88	mg/l		0.0	man acc	
74	MB	1.4	3.11	mg/l		0.0	man acc	Outside calibration
76	CCB	1.4	-2.20	mg/l		0.0	man acc	Outside calibration
77	CCV ALK	1.4	50.33	mg/l		0.0	man acc	
78	LCS ALK	1.4	50.04	mg/l		0.0	man acc	
79	MB	1.4	-2.81	mg/l		0.0	man acc	Outside calibration
82	480-198630-D-1	1.4	452.70	mg/l		4.0	man acc	
83	CCB	1.4	-2.60	mg/l		0.0	man acc	Outside calibration
84	CCV ALK	1.4	48.76	mg/l		0.0	man acc	
85	LCS ALK	1.4	49.95	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
86	MB	1.4	-5.12	mg/l		0.0	man acc	Outside calibration
87	480-198665-C-26	1.4	90.34	mg/l		1.0	man acc	
88	CCB	1.4	-1.19	mg/l		0.0	man acc	Outside calibration
89	CCV ALK	1.4	49.39	mg/l		0.0	man acc	
90	LCS ALK	1.4	48.41	mg/l		0.0	man acc	
91	MB	1.4	-0.66	mg/l		0.0	man acc	Outside calibration
92	480-198720-L-1	1.4	22.73	mg/l		1.0	man acc	
93	CCB	1.4	-3.50	mg/l		0.0	man acc	Outside calibration
94	CCV ALK	1.4	49.61	mg/l		0.0	man acc	
95	LCS ALK	1.4	50.89	mg/l		0.0	man acc	
96	MB	1.4	-3.40	mg/l		0.0	man acc	Outside calibration
97	ms 480-198581-I-1	1.4	2,923.89	mg/l		99.0	man acc	
98	CCB	1.4	1.15	mg/l		0.0	man acc	Outside calibration
99	CCV ALK	1.4	51.53	mg/l		0.0	man acc	
100	LCS ALK	1.4	50.15	mg/l		0.0	man acc	
101	MB	1.4	-3.19	mg/l		0.0	man acc	Outside calibration
102	msd 480-198581-I-	1.4	2,860.65	mg/l		99.0	man acc	
103	480-198581-I-1	1.4	2,480.90	mg/l		99.0	man acc	
104	CCB	1.4	-2.50	mg/l		0.0	man acc	Outside calibration
105	CCV ALK	1.4	48.66	mg/l		0.0	man acc	
106	LCS ALK	1.4	49.13	mg/l		0.0	man acc	
107	MB	1.4	-3.20	mg/l		0.0	man acc	Outside calibration

Water blank results

Date 6/8/2022 **User** BufGallery1

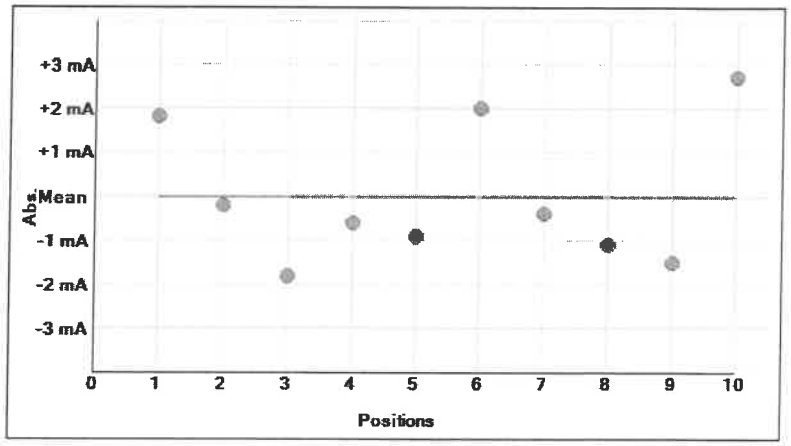
Time 5:17:58PM **Software version: 6.0.2**

Measurement time
6/8/2022 10:15 AM

MAX acceptable SD (mA)
2

Wavelength (nm)	Abs (mA)	SD (mA)
340	**-1000.7**	**1.6**
420	-1034.1	1.4
480	-1044.8	1.4
510	-1048.5	1.4
540	-1052.1	1.4
575	-1055.3	1.4
600	-1056.8	1.4
620	-1058.3	1.3
660	-1060.7	1.4
700	-1061.9	1.4
880	-1045.5	1.4

340



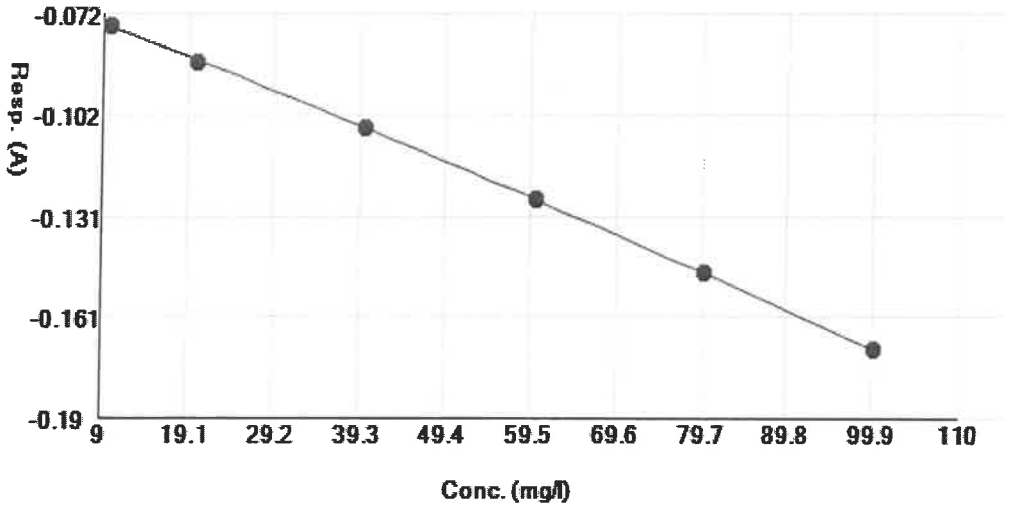
Calibration results

ALK Version number 1.4

Date	6/8/2022	**User**	BufGallery1
Time	5:18:26PM	**Software version: 6.0.2**	
Analyzer name	Analyzer 1		

Test	ALK	**Coeff. of deter.**	0.999947
Status	Accepted	**Total factor**	-955.886
Accepted	6/6/2022 11:22 PM		
Checked	6/6/2022 11:22 PM	Zero-order factor	-0.067
User name	BufGallery1	1st order factor	-0.001
Comment		2nd order factor	0.000
Errors			

Cal/Ctrl	Response	Calc. conc.	Given conc.	Lot	Errors
ALK 10	-0.076	9.729	10.000	Default	
ALK 20	-0.086	20.477	20.000	Default	
ALK 40	-0.105	39.742	40.000	Default	
ALK 60	-0.126	60.037	60.000	Default	
ALK 80	-0.148	80.014	80.000	Default	
ALK 100	-0.170	100.002	100.000	Default	
ALK ICV	-0.097	31.32	50.00	Default	QC, Rule 1 violated
ICB	-0.063	-3.60	0.00	Default	Outside calibration



Historical Data Summary Report

For Batch 629307

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198581-I-1	MLLA3	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	100.0	2480	☑	194.426 - 402.574	☑	212.8 - 458.4
480-198630-D-1	Irrigation Well	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	7	5.0	453	☐	379.302 - 518.127	☐	333.6 - 584.4
480-198630-D-1	Irrigation Well	310.2	Alkalinity, Carbonate	Total/NA	mg/L	7	5.0	ND	☐	0 - 0	☐	0 - 0
480-198651-U-1	DUP 1	310.2	Alkalinity, Total	Total/NA	mg/L	8	10.0	562	☐	368.218 - 763.282	☐	345.6 - 776.4
480-198651-U-2	MW- JL	310.2	Alkalinity, Total	Total/NA	mg/L	2	10.0	705	☐	543 - 810	☐	541.2 - 811.8
480-198651-U-3	MW-JI	310.2	Alkalinity, Total	Total/NA	mg/L	2	10.0	656	☐	496 - 778	☐	509.6 - 764.4
480-198651-U-4	MW-JB	310.2	Alkalinity, Total	Total/NA	mg/L	4	10.0	554	☑	145.276 - 431.724	☑	176 - 426
480-198651-U-5	MW-LLA	310.2	Alkalinity, Total	Total/NA	mg/L	2	10.0	563	☑	418 - 523	☐	376.4 - 564.6
480-198665-B-21	TW76A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	1.0	82.4	☐	61.859 - 87.141	☐	54.16 - 98.76
480-198665-C-22	TW76B	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	183	☑	124.796 - 174.704	☐	112 - 199.2
480-198665-C-23	TW49	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	10.0	448	☐	319.963 - 538.037	☐	281.6 - 565.2
480-198665-C-24	TW49A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	1.0	78.1	☐	43.256 - 104.594	☐	50.8 - 110.28
480-198665-C-25	P56BR	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	109	☐	0 - 259.813	☐	65.6 - 289.2
480-198665-C-26	P40AR	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	2.0	90.3	☐	0 - 724.547	☐	66.8 - 522
480-198665-C-27	P40R	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	10.0	336	☐	223.491 - 351.009	☐	193.6 - 376.8
480-198665-C-28	TW55R	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	174	☐	129.288 - 195.962	☐	118.4 - 224.4
480-198665-C-29	TW55AR	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	2.0	106	☑	42.867 - 105.058	☑	43.28 - 105.96
480-198665-C-3	08FB	310.2	Alkalinity, Dissolved	Dissolved	mg/L	5	1.0	ND	☐	0 - 19.247	☐	0 - 14.4
480-198719-N-1	MW-OL	310.2	Alkalinity, Total	Total/NA	mg/L	2	6.0	530	☐	151 - 652	☑	321.2 - 481.8
480-198720-H-3	MW-1B	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	110	☐	74.103 - 122.347	☐	70.48 - 138
480-198720-L-1	CD-1	310.2	Alkalinity, Total	Total/NA	mg/L	8	2.0	22.7	☑	103.327 - 162.173	☑	90.4 - 176.4
480-198720-L-2	CD-1RA	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	137	☐	75.621 - 184.804	☐	72.56 - 182.4

480-198720-1 SDG: 480-198665

630965

Alkalinity

310.2

1000 PPM	(MS/MSD/CAL)	6959570	EXP: 06/30/2022
50 PPM	(CCV/LCS)	7043573	EXP: 06/28/2022
Alk. Mix:		7045178	EXP: 06/22/2022
3.1 Buffer		7043572	EXP: 06/28/2022
Methyl orange		7045177	EXP: 07/21/2022
ERA Minerals (ICV):		6318066	EXP: 04/01/2023

Actual = 31.16 MG/L
RANGE = 29.3 – 34.9 MG/L

CURVE:

Kone 1: 06-13-2019 Batch: 478010
100 ppm: 5352372

Kone 2: 01-20-2022 Batch: 612322
100 ppm: 6845169

Kone 3: 01-28-2020 Batch: 515266
100 ppm: 5749493

Gallery 1: 06-21-2022 Batch: 630965
100 ppm: 7045179

Results by Test

Date 6/22/2022 **User** BufGallery1

Time 10:10:12AM **Software version: 6.0.2**

Test name ALK

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
46	CCB	1.4	1.03	mg/l		0.0	man acc	Outside calibration
47	CCV ALK	1.4	49.83	mg/l		0.0	man acc	
48	LCS ALK	1.4	51.84	mg/l		0.0	man acc	
49	MB	1.4	-9.29	mg/l		0.0	man acc	Outside calibration
50	icv	1.4	31.91	mg/l		0.0	man acc	
51	CCB	1.4	-2.72	mg/l		0.0	man acc	Outside calibration
52	CCV ALK	1.4	48.55	mg/l		0.0	man acc	
53	LCS ALK	1.4	54.02	mg/l		0.0	man acc	
54	MB	1.4	-5.07	mg/l		0.0	man acc	Outside calibration
78	CCB	1.4	-0.89	mg/l		0.0	man acc	Outside calibration
79	CCV ALK	1.4	51.62	mg/l		0.0	man acc	
80	LCS ALK	1.4	52.55	mg/l		0.0	man acc	
81	MB	1.4	-8.06	mg/l		0.0	man acc	Outside calibration
85	ms 480-198906-C-3	1.4	376.81	mg/l		4.0	man acc	
86	msd 480-198906-C-	1.4	378.12	mg/l		4.0	man acc	
87	480-198906-C-3	1.4	364.43	mg/l		4.0	man acc	
88	480-198906-C-4	1.4	396.66	mg/l		4.0	man acc	
89	480-198906-C-5	1.4	328.92	mg/l		4.0	man acc	
90	CCB	1.4	-2.16	mg/l		0.0	man acc	Outside calibration
91	CCV ALK	1.4	52.18	mg/l		0.0	man acc	
92	LCS ALK	1.4	51.63	mg/l		0.0	man acc	
93	MB	1.4	0.31	mg/l		0.0	man acc	Outside calibration
94	480-198906-C-6	1.4	364.56	mg/l		4.0	man acc	
95	480-198906-C-7	1.4	372.09	mg/l		4.0	man acc	
96	480-198906-C-8	1.4	438.32	mg/l		4.0	man acc	
97	480-198813-J-1	1.4	148.82	mg/l		2.0	man acc	
98	480-198813-J-2	1.4	377.87	mg/l		4.0	man acc	
99	480-198813-J-3	1.4	649.68	mg/l		9.0	man acc	
101	CCB	1.4	-4.57	mg/l		0.0	man acc	Outside calibration
102	CCV ALK	1.4	46.47	mg/l		0.0	man acc	
103	LCS ALK	1.4	47.81	mg/l		0.0	man acc	
104	MB	1.4	-7.35	mg/l		0.0	man acc	Outside calibration

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
105	480-198813-J-5	1.4	193.51	mg/l		2.0	man acc	
106	480-198813-J-6	1.4	235.63	mg/l		9.0	man acc	
107	480-198813-J-7	1.4	170.74	mg/l		2.0	man acc	
108	480-198813-J-8	1.4	199.69	mg/l		4.0	man acc	
109	480-198813-J-9	1.4	160.22	mg/l		2.0	man acc	
110	CCB	1.4	-5.09	mg/l		0.0	man acc	Outside calibration
111	CCV ALK	1.4	49.35	mg/l		0.0	man acc	
112	480-198813-J-10	1.4	444.61	mg/l		4.0	man acc	
113	ms 480-198815-J-1	1.4	362.45	mg/l		4.0	man acc	
114	msd 480-198815-J-	1.4	403.72	mg/l		4.0	man acc	
115	480-198815-J-1	1.4	350.26	mg/l		4.0	man acc	
116	LCS ALK	1.4	52.66	mg/l		0.0	man acc	
117	MB	1.4	-4.42	mg/l		0.0	man acc	Outside calibration
118	480-198815-J-2	1.4	212.75	mg/l		4.0	man acc	
121	620-4945-E-2	1.4	34.30	mg/l		0.0	man acc	
122	620-4969-G-1	1.4	29.28	mg/l		0.0	man acc	
126	CCB	1.4	-9.93	mg/l		0.0	man acc	Outside calibration
127	CCV ALK	1.4	49.87	mg/l		0.0	man acc	
128	LCS ALK	1.4	49.75	mg/l		0.0	man acc	
129	MB	1.4	-1.44	mg/l		0.0	man acc	Outside calibration
147	CCB	1.4	0.54	mg/l		0.0	man acc	Outside calibration
148	CCV ALK	1.4	51.74	mg/l		0.0	man acc	
149	LCS ALK	1.4	52.25	mg/l		0.0	man acc	
150	MB	1.4	-2.35	mg/l		0.0	man acc	Outside calibration
151	480-198905-C-1	1.4	467.34	mg/l		9.0	man acc	
152	480-198905-C-2	1.4	530.81	mg/l		5.0	man acc	
153	480-198905-C-3	1.4	436.86	mg/l		4.0	man acc	
154	480-198905-C-4	1.4	522.90	mg/l		9.0	man acc	
155	480-198905-C-5	1.4	401.89	mg/l		5.0	man acc	
156	480-198905-C-6	1.4	429.59	mg/l		4.0	man acc	
157	480-198905-C-7	1.4	398.37	mg/l		4.0	man acc	
158	480-198905-C-8	1.4	328.54	mg/l		4.0	man acc	
176	CCB	1.4	1.36	mg/l		0.0	man acc	Outside calibration
177	CCV ALK	1.4	52.72	mg/l		0.0	man acc	
178	LCS ALK	1.4	53.18	mg/l		0.0	man acc	
179	MB	1.4	-0.61	mg/l		0.0	man acc	Outside calibration
180	ms 480-198720-K-1	1.4	100.51	mg/l		2.0	man acc	
181	msd 480-198720-K-	1.4	98.49	mg/l		2.0	man acc	
182	480-198720-K-1	1.4	120.12	mg/l		2.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
183	480-198777-D-1	1.4	13,460.34	mg/l		399.0	man acc	
184	480-198777-D-2	1.4	6,546.35	mg/l		199.0	man acc	
185	480-198905-C-9	1.4	328.18	mg/l		4.0	man acc	
186	480-198905-C-10	1.4	452.00	mg/l		4.0	man acc	
187	480-198905-C-11	1.4	340.49	mg/l		4.0	man acc	
188	CCB	1.4	-0.94	mg/l		0.0	man acc	Outside calibration
189	CCV ALK	1.4	51.04	mg/l		0.0	man acc	
190	LCS ALK	1.4	50.49	mg/l		0.0	man acc	
191	MB	1.4	-1.64	mg/l		0.0	man acc	Outside calibration
192	480-198905-C-12	1.4	353.03	mg/l		4.0	man acc	
193	480-198906-C-2	1.4	360.23	mg/l		4.0	man acc	
194	480-198813-J-4	1.4	190.93	mg/l		1.0	man acc	
196	620-4945-J-1	1.4	143.66	mg/l		1.0	man acc	
199	620-4969-G-4	1.4	110.21	mg/l		1.0	man acc	
200	CCB	1.4	-2.10	mg/l		0.0	man acc	Outside calibration
201	CCV ALK	1.4	51.14	mg/l		0.0	man acc	
202	LCS ALK	1.4	50.23	mg/l		0.0	man acc	
203	MB	1.4	-2.09	mg/l		0.0	man acc	Outside calibration
204	620-4969-G-5	1.4	103.98	mg/l		1.0	man acc	
206	620-4969-R-7	1.4	125.08	mg/l		1.0	man acc	
207	620-4969-I-8	1.4	53.29	mg/l		0.0	man acc	
208	480-198897-P-1	1.4	1,356.26	mg/l		99.0	man acc	
209	480-198898-P-1	1.4	362.08	mg/l		5.0	man acc	
223	CCB	1.4	-2.53	mg/l		0.0	man acc	Outside calibration
224	CCV ALK	1.4	50.64	mg/l		0.0	man acc	
225	LCS ALK	1.4	49.30	mg/l		0.0	man acc	
226	MB	1.4	-2.74	mg/l		0.0	man acc	Outside calibration
227	620-4969-I-6	1.4	281.41	mg/l		4.0	man acc	
228	CCB	1.4	-2.75	mg/l		0.0	man acc	Outside calibration
229	CCV ALK	1.4	52.20	mg/l		0.0	man acc	
230	MB	1.4	-3.14	mg/l		0.0	man acc	Outside calibration
231	ms 480-199163-G-1	1.4	9,749.21	mg/l		99.0	man acc	
232	msd 480-199163-G	1.4	9,542.73	mg/l		99.0	man acc	
234	CCB	1.4	1.94	mg/l		0.0	man acc	Outside calibration
235	480-199163-G-2	1.4	16,442.21	mg/l		299.0	man acc	
236	CCV ALK	1.4	54.12	mg/l		0.0	man acc	
237	LCS ALK	1.4	52.59	mg/l		0.0	man acc	
239	MB	1.4	0.21	mg/l		0.0	man acc	Outside calibration
281	CCB	1.4	1.76	mg/l		0.0	man acc	Outside calibration

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
282	CCV ALK	1.4	54.53	mg/l		0.0	man acc	
283	LCS ALK	1.4	54.64	mg/l		0.0	man acc	
284	MB	1.4	3.80	mg/l		0.0	man acc	Outside calibration
285	480-198831-E-2	1.4	632.95	mg/l		9.0	man acc	
286	620-4969-G-2	1.4	645.04	mg/l		9.0	man acc	
287	620-4969-I-3	1.4	707.26	mg/l		9.0	man acc	
289	480-199163-G-1	1.4	9,327.05	mg/l		99.0	man acc	
290	480-199163-G-3	1.4	10,215.92	mg/l		299.0	man acc	
291	480-199163-G-4	1.4	11,191.67	mg/l		299.0	man acc	
292	480-198900-D-2	1.4	1,530.92	mg/l		19.0	man acc	
293	CCB	1.4	-2.50	mg/l		0.0	man acc	Outside calibration
294	CCV ALK	1.4	52.54	mg/l		0.0	man acc	
295	LCS ALK	1.4	52.23	mg/l		0.0	man acc	
296	MB	1.4	3.41	mg/l		0.0	man acc	Outside calibration
312	CCB	1.4	-2.00	mg/l		0.0	man acc	Outside calibration
313	CCV ALK	1.4	50.33	mg/l		0.0	man acc	
314	LCS ALK	1.4	50.64	mg/l		0.0	man acc	
315	MB	1.4	-6.15	mg/l		0.0	man acc	Outside calibration
316	ms 480-198952-C-1	1.4	273.43	mg/l		2.0	man acc	
317	msd 480-198952-C-	1.4	264.59	mg/l		2.0	man acc	
318	480-198952-C-19	1.4	244.31	mg/l		2.0	man acc	
319	620-5017-E-1	1.4	34.45	mg/l		0.0	man acc	
324	CCB	1.4	-2.09	mg/l		0.0	man acc	Outside calibration
325	CCV ALK	1.4	52.11	mg/l		0.0	man acc	
326	LCS ALK	1.4	52.09	mg/l		0.0	man acc	
327	MB	1.4	-0.33	mg/l		0.0	man acc	Outside calibration
328	480-198860-J-1	1.4	698.04	mg/l		9.0	man acc	
329	CCB	1.4	-1.36	mg/l		0.0	man acc	Outside calibration
337	CCV ALK	1.4	50.94	mg/l		0.0	man acc	
338	LCS ALK	1.4	50.32	mg/l		0.0	man acc	
339	MB	1.4	-1.16	mg/l		0.0	man acc	Outside calibration
340	480-198866-J-1	1.4	137.11	mg/l		2.0	man acc	
341	480-198866-J-2	1.4	82.57	mg/l		1.0	man acc	
342	CCB	1.4	-3.57	mg/l		0.0	man acc	Outside calibration
343	CCV ALK	1.4	48.67	mg/l		0.0	man acc	
344	LCS ALK	1.4	47.70	mg/l		0.0	man acc	
345	MB	1.4	-7.43	mg/l		0.0	man acc	Outside calibration
366	CCB	1.4	-2.14	mg/l		0.0	man acc	Outside calibration
367	CCV ALK	1.4	49.93	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
368	LCS ALK	1.4	50.27	mg/l		0.0	man acc	
369	MB	1.4	-2.14	mg/l		0.0	man acc	Outside calibration
371	IDOC 1	1.4	50.93	mg/l		0.0	man acc	
372	IDOC 2	1.4	50.48	mg/l		0.0	man acc	
373	IDOC 3	1.4	46.99	mg/l		0.0	man acc	
374	480-198900-D-3	1.4	1,907.93	mg/l		19.0	man acc	
375	480-198903-P-1	1.4	3,354.13	mg/l		49.0	man acc	
376	480-198907-B-1	1.4	235.65	mg/l		4.0	man acc	
378	CCB	1.4	1.28	mg/l		0.0	man acc	Outside calibration
379	CCV ALK	1.4	50.74	mg/l		0.0	man acc	
380	LCS ALK	1.4	52.13	mg/l		0.0	man acc	
381	MB	1.4	-0.26	mg/l		0.0	man acc	Outside calibration
382	480-198952-C-5	1.4	149.21	mg/l		2.0	man acc	
383	480-198952-C-6	1.4	95.67	mg/l		2.0	man acc	
384	480-198952-C-9	1.4	25.69	mg/l		0.0	man acc	
385	480-198952-C-10	1.4	31.92	mg/l		0.0	man acc	
386	480-198952-C-14	1.4	44.06	mg/l		0.0	man acc	
387	480-198952-C-17	1.4	8.31	mg/l		0.0	man acc	Outside calibration
388	480-198952-C-18	1.4	117.24	mg/l		1.0	man acc	
389	CCB	1.4	-3.11	mg/l		0.0	man acc	Outside calibration
390	CCV ALK	1.4	52.50	mg/l		0.0	man acc	
391	LCS ALK	1.4	51.68	mg/l		0.0	man acc	
392	MB	1.4	-3.17	mg/l		0.0	man acc	Outside calibration
393	IDOC 4	1.4	49.25	mg/l		0.0	man acc	
394	CCB	1.4	-2.86	mg/l		0.0	man acc	Outside calibration
395	CCV ALK	1.4	48.57	mg/l		0.0	man acc	
396	LCS ALK	1.4	49.73	mg/l		0.0	man acc	
397	MB	1.4	-6.61	mg/l		0.0	man acc	Outside calibration
398	480-198860-J-2	1.4	952.67	mg/l		9.0	man acc	
399	480-198860-J-3	1.4	321.08	mg/l		4.0	man acc	
400	480-198860-J-4	1.4	356.14	mg/l		4.0	man acc	
401	480-198860-J-5	1.4	371.15	mg/l		4.0	man acc	
402	480-198860-J-6	1.4	288.61	mg/l		3.0	man acc	
403	480-198863-J-1	1.4	323.01	mg/l		4.0	man acc	
404	480-198863-J-2	1.4	251.80	mg/l		4.0	man acc	
405	620-5017-D-4	1.4	244.33	mg/l		4.0	man acc	
410	CCB	1.4	-2.96	mg/l		0.0	man acc	Outside calibration
411	CCV ALK	1.4	50.33	mg/l		0.0	man acc	
412	LCS ALK	1.4	50.87	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
413	MB	1.4	-9.18	mg/l		0.0	man acc	Outside calibration
414	480-198952-C-4	1.4	102.55	mg/l		1.0	man acc	
415	480-198894-G-1	1.4	148.02	mg/l		1.0	man acc	
417	CCB	1.4	-1.15	mg/l		0.0	man acc	Outside calibration
418	CCV ALK	1.4	50.67	mg/l		0.0	man acc	
419	LCS ALK	1.4	49.50	mg/l		0.0	man acc	
420	MB	1.4	-8.15	mg/l		0.0	man acc	Outside calibration
421	620-5017-D-2	1.4	118.06	mg/l		1.0	man acc	
422	480-198900-D-1	1.4	881.76	mg/l		14.0	man acc	
423	620-5017-E-3	1.4	113.76	mg/l		1.0	man acc	
424	620-5017-D-5	1.4	115.17	mg/l		1.0	man acc	
425	480-198866-J-3	1.4	90.89	mg/l		0.0	man acc	
426	480-198890-F-1	1.4	60.78	mg/l		0.0	man acc	
427	480-198890-F-4	1.4	32.56	mg/l		0.0	man acc	
428	480-198890-F-5	1.4	22.45	mg/l		0.0	man acc	
429	CCB	1.4	-4.21	mg/l		0.0	man acc	Outside calibration
430	CCV ALK	1.4	47.54	mg/l		0.0	man acc	
431	LCS ALK	1.4	48.60	mg/l		0.0	man acc	
432	MB	1.4	-5.56	mg/l		0.0	man acc	Outside calibration
433	480-198890-F-6	1.4	12.20	mg/l		0.0	man acc	
434	480-198894-G-2	1.4	51.15	mg/l		0.0	man acc	
435	CCB	1.4	-6.13	mg/l		0.0	man acc	Outside calibration
436	CCV ALK	1.4	48.46	mg/l		0.0	man acc	
437	LCS ALK	1.4	46.79	mg/l		0.0	man acc	
438	MB	1.4	-6.19	mg/l		0.0	man acc	Outside calibration
441	ms 480-198866-J-3	1.4	107.34	mg/l		1.0	man acc	
442	msd 480-198866-J-	1.4	112.15	mg/l		1.0	man acc	
443	480-198890-F-3	1.4	116.68	mg/l		1.0	man acc	
444	CCB	1.4	-3.76	mg/l		0.0	man acc	Outside calibration
445	CCV ALK	1.4	49.54	mg/l		0.0	man acc	
447	LCS ALK	1.4	50.77	mg/l		0.0	man acc	
448	MB	1.4	-5.31	mg/l		0.0	man acc	Outside calibration
449	480-198890-F-2	1.4	694.41	mg/l		9.0	man acc	
450	CCB	1.4	-0.75	mg/l		0.0	man acc	Outside calibration
451	CCV ALK	1.4	52.84	mg/l		0.0	man acc	
452	LCS ALK	1.4	51.09	mg/l		0.0	man acc	
453	MB	1.4	-2.32	mg/l		0.0	man acc	Outside calibration
455	CCB	1.4	-0.91	mg/l		0.0	man acc	Outside calibration
456	LCS ALK	1.4	52.53	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
457	MB	1.4	-4.89	mg/l		0.0	man acc	Outside calibration
458	480-198886-E-1	1.4	1,311.18	mg/l		19.0	man acc	
459	CCB	1.4	1.28	mg/l		0.0	man acc	Outside calibration
460	CCV ALK	1.4	53.12	mg/l		0.0	man acc	
461	LCS ALK	1.4	50.97	mg/l		0.0	man acc	
462	MB	1.4	-2.62	mg/l		0.0	man acc	Outside calibration

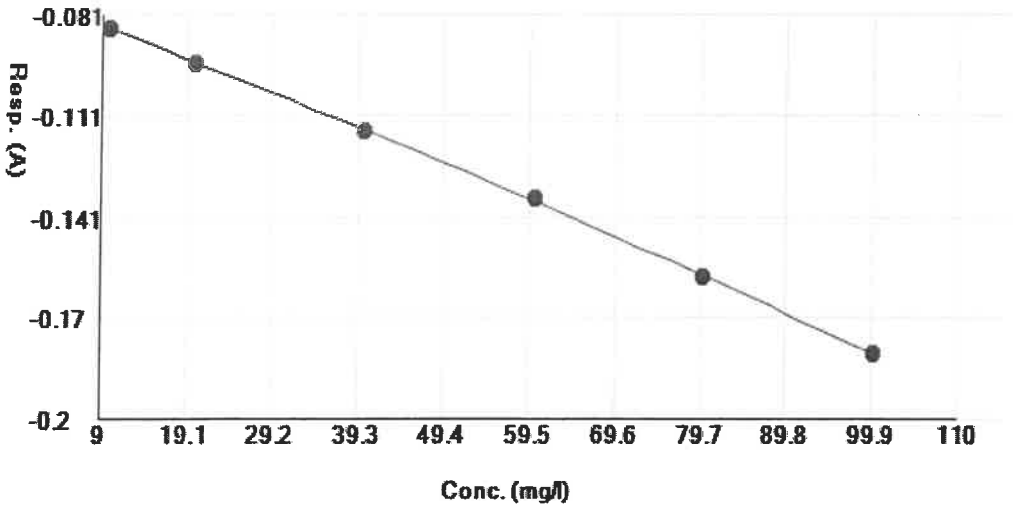
Water blank results

ALK Version number 1.4

Date	6/21/2022	**User**	BufGallery1
Time	5:08:24PM	**Software version: 6.0.2**	
Analyzer name	Analyzer 1		

Test	ALK	**Coeff. of deter.**	0.999836
Status	Accepted	**Total factor**	-940.831
Accepted	6/21/2022 12:02 PM		
Checked	6/21/2022 12:02 PM	Zero-order factor	-0.076
User name	BufGallery1	1st order factor	-0.001
Comment		2nd order factor	0.000
Errors			

Cal/Ctrl	Response	Calc. conc.	Given conc.	Lot	Errors
ALK 10	NaN	9.7	10.0	Default	
ALK 20	NaN	20.3	20.0	Default	
ALK 40	NaN	40.2	40.0	Default	
ALK 60	NaN	59.3	60.0	Default	
ALK 80	NaN	80.5	80.0	Default	
ALK 100	NaN	99.9	100.0	Default	
ALK ICV	NaN	54	50	Default	
ICB	NaN	-6	0	Default	Outside calibration



Water blank results

Date 6/22/2022 **User** BufGallery1

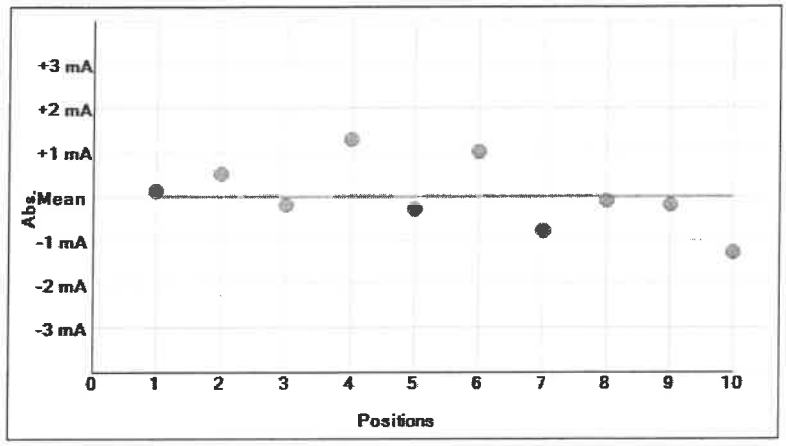
Time 10:09:46AM **Software version: 6.0.2**

Measurement time
6/21/2022 5:11 PM

MAX acceptable SD (mA)
2

Wavelength (nm)	Abs (mA)	SD (mA)
340	**-1001.5**	**0.8**
420	-1035.1	0.8
480	-1045.7	0.9
510	-1049.5	0.8
540	-1053.1	0.8
575	-1056.3	0.7
600	-1057.8	0.7
620	-1059.2	0.7
660	-1061.6	0.7
700	-1062.9	0.7
880	-1046.5	0.6

340



Historical Data Summary Report

For Batch 630965

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198720-K-1	CD-1	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	120	☐	103.327 - 162.173	☐	90.4 - 176.4
480-198777-D-1	SSR01E	310.2	Alkalinity, Total	Total/NA	mg/L	8	400.0	13500	☐	0 - 23500.347	☐	28.64 - 18720
480-198777-D-2	SSR08E	310.2	Alkalinity, Total	Total/NA	mg/L	5	200.0	6550	☐	0 - 17217.469	☐	96 - 11016
480-198813-J-1	MW-1A	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	149	☐	82.707 - 176.243	☐	79.04 - 183.6
480-198813-J-10	MW-7A	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	445	☐	98.096 - 643.654	☐	184 - 609.6
480-198813-J-2	MW-2A	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	378	☐	188.847 - 445.903	☐	197.6 - 444
480-198813-J-3	MW-2B	310.2	Alkalinity, Total	Total/NA	mg/L	8	10.0	650	☐	69.179 - 848.071	☐	242.4 - 738
480-198813-J-4	MW-3A	310.2	Alkalinity, Total	Total/NA	mg/L	8	2.0	191	☐	0 - 305.739	☐	46.72 - 248.4
480-198813-J-5	MW-3B	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	194	☑	131.382 - 186.618	☐	116.8 - 210
480-198813-J-6	MW-4A	310.2	Alkalinity, Total	Total/NA	mg/L	8	10.0	236	☑	289.098 - 595.402	☑	300.8 - 639.6
480-198813-J-7	MW-5A	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	171	☑	124.061 - 165.189	☐	104 - 187.2
480-198813-J-8	MW-6A	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	200	☐	95.355 - 314.145	☐	132.8 - 346.8
480-198813-J-9	MW-6B	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	160	☐	114.792 - 182.208	☐	106.4 - 202.8
480-198815-J-1	DO-2	310.2	Alkalinity, Total	Total/NA	mg/L	6	5.0	350	☐	32.907 - 429.96	☐	77.28 - 361.2
480-198815-J-2	RE-7	310.2	Alkalinity, Total	Total/NA	mg/L	7	5.0	213	☐	6.55 - 335.764	☐	30.48 - 248.4
480-198860-J-1	PGW-1	310.2	Alkalinity, Total	Total/NA	mg/L	7	10.0	698	☐	77.528 - 997.901	☐	155.2 - 850.8
480-198860-J-2	PLT-2	310.2	Alkalinity, Total	Total/NA	mg/L	6	10.0	953	☐	720.406 - 1081.927	☐	654.4 - 1171.2
480-198860-J-3	RE-4	310.2	Alkalinity, Total	Total/NA	mg/L	6	5.0	321	☐	202.342 - 476.658	☐	212.8 - 488.4
480-198860-J-4	RE-5	310.2	Alkalinity, Total	Total/NA	mg/L	6	5.0	356	☑	160.984 - 353.016	☐	176.8 - 362.4
480-198860-J-5	RE-6	310.2	Alkalinity, Total	Total/NA	mg/L	3	5.0	371	☑	218.289 - 351.044	☑	227.733 - 341.6
480-198860-J-6	RE-8	310.2	Alkalinity, Total	Total/NA	mg/L	6	4.0	289	☑	182.939 - 265.061	☐	159.2 - 291.6
480-198863-J-1	UD-1	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	323	☐	152.844 - 385.406	☐	166.4 - 386.4
480-198863-J-2	UD-2	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	252	☐	175.908 - 279.092	☐	166.4 - 313.2
480-198866-J-1	SW-1	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	137	☐	75.192 - 187.058	☐	84 - 183.6
480-198866-J-2	SW-2	310.2	Alkalinity, Total	Total/NA	mg/L	8	2.0	82.6	☐	58.712 - 152.863	☐	62 - 147.6
480-198866-J-3	SW-3	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	90.9	☐	41.666 - 202.009	☐	66 - 189.6
480-198886-E-1	COND1	310.2	Alkalinity, Total	Total/NA	mg/L	8	20.0	1310	☐	0 - 5699.334	☐	1112 - 5088
480-198894-G-2	IMW-A1	310.2	Alkalinity, Total	Total/NA	mg/L	1	1.0	51.1	☑	71.7 - 71.7	☑	57.36 - 86.04
480-198897-P-1	TANK1	310.2	Alkalinity, Total	Total/NA	mg/L	8	100.0	1360	☐	0 - 5093.504	☐	64.56 - 4080
480-198898-P-1	TANK2	310.2	Alkalinity, Total	Total/NA	mg/L	8	6.0	362	☐	0 - 5231.881	☐	119.2 - 4368
480-198900-D-1	R01	310.2	Alkalinity, Total	Total/NA	mg/L	8	15.0	882	☐	570.241 - 1364.259	☐	680.8 - 1548
480-198900-D-2	R38	310.2	Alkalinity, Total	Total/NA	mg/L	8	20.0	1530	☐	901.593 - 1888.407	☐	920 - 1980
480-198900-D-3	R43R	310.2	Alkalinity, Total	Total/NA	mg/L	8	20.0	1910	☐	1214.627 - 2177.873	☐	1160 - 2292
480-198903-P-1	T1	310.2	Alkalinity, Total	Total/NA	mg/L	8	50.0	3350	☐	2191.315 - 4148.685	☐	2256 - 4668
480-198905-C-1	MW110	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	10.0	467	☐	214.078 - 499.422	☐	213.6 - 522
480-198905-C-10	MW34A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	452	☑	280.342 - 445.408	☐	260.8 - 481.2
480-198905-C-11	MW34B	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	340	☐	222.129 - 482.871	☐	241.6 - 518.4
480-198905-C-12	MW33A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	353	☐	260.882 - 390.368	☐	234.4 - 426
480-198905-C-2	MW29	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	6.0	531	☐	297.412 - 606.088	☐	297.6 - 676.8

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Historical Data Summary Report

For Batch 630965

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198905-C-3	MW30	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	437	☐	318.315 - 517.435	☐	280 - 549.6
480-198905-C-4	MW31	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	10.0	523	☐	188.394 - 693.606	☐	252.8 - 727.2
480-198905-C-5	MW31A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	6.0	402	☐	257.069 - 405.181	☐	232.8 - 442.8
480-198905-C-7	MW32A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	398	☐	273.645 - 461.355	☐	260.8 - 520.8
480-198905-C-8	MW32B	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	329	☐	247.461 - 386.039	☐	224.8 - 436.8
480-198905-C-9	MW33B	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	328	☑	266.482 - 315.018	☐	220.8 - 358.8
480-198906-C-2	BW229	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	360	☐	252.495 - 368.255	☐	216 - 403.2
480-198906-C-3	BW229A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	364	☑	279.339 - 352.911	☐	234.4 - 399.6
480-198906-C-4	MW201	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	397	☐	323.417 - 412.333	☐	272.8 - 474
480-198906-C-5	MW201A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	329	☐	7.887 - 456.113	☐	97.6 - 391.2
480-198906-C-6	MW210A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	365	☐	137.297 - 386.203	☐	158.4 - 411.6
480-198906-C-7	MW227	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	372	☐	272.363 - 399.137	☐	228.8 - 434.4
480-198906-C-8	MW228	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	438	☐	241.596 - 475.404	☐	230.4 - 493.2
480-198907-B-1	PWD05	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	236	☑	124.153 - 231.347	☐	119.2 - 241.2
480-198952-C-10	MW-9	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	4	1.0	31.9	☐	2.226 - 38.824	☐	12 - 36.96
480-198952-C-14	NE-6	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	4	1.0	44.1	☐	0 - 79.245	☐	18.56 - 72
480-198952-C-17	FIELD BLANK	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	4	1.0	ND	☐	0 - 0	☐	0 - 0
480-198952-C-18	Rinsate	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	4	2.0	117	☑	0 - 0	☑	0 - 0
480-198952-C-19	NE-3	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	2	3.0	244	☐	103 - 358	☐	184.4 - 276.6
480-198952-C-4	MW-14	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	4	2.0	103	☑	5.826 - 74.774	☑	26.72 - 72.24
480-198952-C-5	MW-18	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	4	3.0	149	☐	0 - 241.401	☐	0 - 180
480-198952-C-6	MW-4	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	4	3.0	95.7	☐	9.641 - 205.309	☐	58.56 - 187.2
480-198952-C-9	MW-8	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	4	1.0	25.7	☑	14.689 - 19.961	☑	12.88 - 21.96

480-198905-C-6

430 ☑ rerun

Page 2 of 2

629819

CN Solutions:

Potassium Phosphate Buffer	**7022970**	**Exp: 7/07/2022**
Pyridine Barbituric Acid	**7024983**	**Exp: 6/09/2022**
Chloramine-T	**7030299**	**Exp: 6/14/2022**
50ppm INT STD	**7021733**	**Exp: 6/13/2022**
CN .25ppm CCV Std	**7030825**	**Exp: 6/13//2022**

LCS = 0.4mg/L, 0.25mg/L
CCV = 0.25mg/L
MS/MSD = 0.1mg/L

Cyanide Curve Lachat 2 : 6/07/2022
Curve Standard (50 ppm): 7021733
ICV (0.250 ppm): 628905/3

Author: BufLachat2 Date : 6/13/2022

Original Run Filename: OM_6-13-2022_10-41-34AM.OMN Created: 6/13/2022 10:41:34 AM
Original Run Author's Signature: [BufLachat2]
Current Run Filename: OM_6-13-2022_10-41-34AM.OMN Last Modified: 6/13/2022 11:27:31 AM
Current Run Author's Signature: [BufLachat2]
Description: 10-204-00-1-A

629819

Sample	Rep.	Cup No.	Channel 1 Cyanide Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
CCV	1	S9	0.253	6.24	0.276	6/13/2022@10:42:31 AM
	Known Conc:		0.250			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	-1.65e-3	-0.0368	-1.34e-3	6/13/2022@10:43:58 AM
	Known Conc:		0.00			
mb 480-629693/1-a	1	1	3.23e-5	4.91e-3	2.74e-3	6/13/2022@10:45:25 AM
lcs 480-629693/2-a	1	2	0.396	9.79	0.436	6/13/2022@10:46:52 AM
lcs 480-629693/3-a	1	3	0.243	6.01	0.267	6/13/2022@10:48:19 AM
ccvl 480-629693/4-a	1	4	0.0990	2.45	0.106	6/13/2022@10:49:46 AM
480-198568-a-2-a	1	5	8.54e-3	0.215	9.38e-3	6/13/2022@10:51:13 AM
480-198568-a-2-b du	1	6	-7.37e-4	-0.0141	-4.01e-3	6/13/2022@10:52:40 AM
480-198568-a-3-a	1	7	0.0121	0.304	0.0134	6/13/2022@10:54:06 AM
480-198568-a-3-b ms	1	8	3.73e-3	0.0962	5.14e-3	6/13/2022@10:55:33 AM
480-198568-a-5-a	1	9	5.58e-3	0.142	5.08e-3	6/13/2022@10:56:59 AM
480-198568-a-7-a	1	10	-1.08e-3	-0.0227	1.51e-3	6/13/2022@10:58:25 AM
CCV	1	S9	0.252	6.22	0.276	6/13/2022@10:59:51 AM
	Known Conc:		0.250			
CCB	1	S10	-2.16e-3	-0.0492	-1.27e-3	6/13/2022@11:01:17 AM
	Known Conc:		0.00			
480-198568-a-11-a	1	11	6.24e-3	0.158	7.41e-3	6/13/2022@11:02:44 AM
480-198568-a-12-a	1	12	5.66e-3	0.144	7.13e-3	6/13/2022@11:04:10 AM
480-198572-b-2-a	1	13	0.0101	0.254	0.0101	6/13/2022@11:05:36 AM
480-198574-a-2-a	1	14	0.0450	1.11	0.0481	6/13/2022@11:07:02 AM
480-198609-g-1-a	1	15	0.0748	1.85	0.0808	6/13/2022@11:08:27 AM
480-198635-i-1-a	1	16	0.0102	0.256	0.0104	6/13/2022@11:09:54 AM
480-198644-e-1-a	1	17	0.0463	1.15	0.0483	6/13/2022@11:11:22 AM
480-198705-i-1-a	1	18	8.35e-3	0.210	9.53e-3	6/13/2022@11:12:49 AM
480-198720-f-1-a	1	19	5.84e-3	0.148	5.15e-3	6/13/2022@11:14:16 AM
480-198720-f-2-a	1	20	-1.08e-3	-0.0225	-2.14e-3	6/13/2022@11:15:42 AM
CCV	1	S9	0.249	6.14	0.274	6/13/2022@11:17:08 AM
	Known Conc:		100			
CCB	1	S10	1.74e-4	8.40e-3	2.01e-3	6/13/2022@11:18:35 AM
	Known Conc:		100			
480-198720-f-3-a	1	21	0.0112	0.281	0.0107	6/13/2022@11:20:01 AM
480-198720-f-3-b ms	1	22	0.0122	0.305	0.0127	6/13/2022@11:21:28 AM
CCV	1	S9	0.248	6.14	0.274	6/13/2022@11:22:54 AM
	Known Conc:		100			
CCB	1	S10	1.03e-3	0.0295	2.39e-3	6/13/2022@11:24:20 AM
	Known Conc:		100			

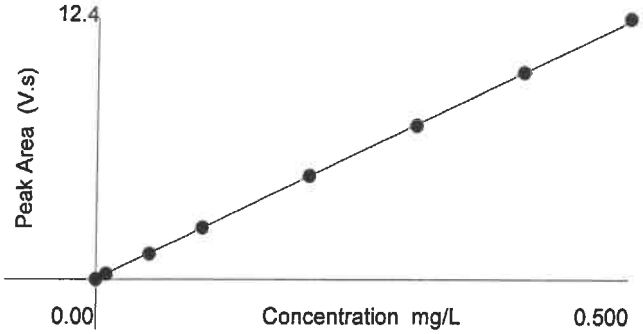
Table : 1 (Cyanide)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	12.4	0.572	0.0	-0.8	0.504	6/7/2022	6:48:30 AM
2	0.400	1	9.88	0.459	0.0	0.1	0.400	6/7/2022	6:49:56 AM
3	0.300	1	7.34	0.343	0.0	1.0	0.297	6/7/2022	6:51:23 AM
4	0.200	1	4.95	0.237	0.0	-0.1	0.200	6/7/2022	6:52:50 AM
5	0.100	1	2.48	0.117	0.0	-0.2	0.100	6/7/2022	6:54:17 AM
6	0.0500	1	1.21	0.0561	0.0	1.9	0.0490	6/7/2022	6:55:45 AM
7	0.0100	1	0.255	0.0106	0.0	-1.6	0.0102	6/7/2022	6:57:13 AM
8	0.00	1	5.05e-3	1.46e-3			3.77e-5	6/7/2022	6:58:39 AM

Author: BufLachat2

Date : 6/13/2022

Figure : 1 (Cyanide)



Area = 24.7 * Conc + 4.16e-3
Conc = 0.0405 * Area - 1.67e-4
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Author: BufLachat2

Date : 6/7/2022

Original Run Filename: OM_6-7-2022_06-47-34AM.OMN Created: 6/7/2022 6:47:34 AM
Original Run Author's Signature: [BufLachat2]
Current Run Filename: OM_6-7-2022_06-47-34AM.OMN Last Modified: 6/7/2022 7:06:10 AM
Current Run Author's Signature: [BufLachat2]
Description: 10-204-00-1-A

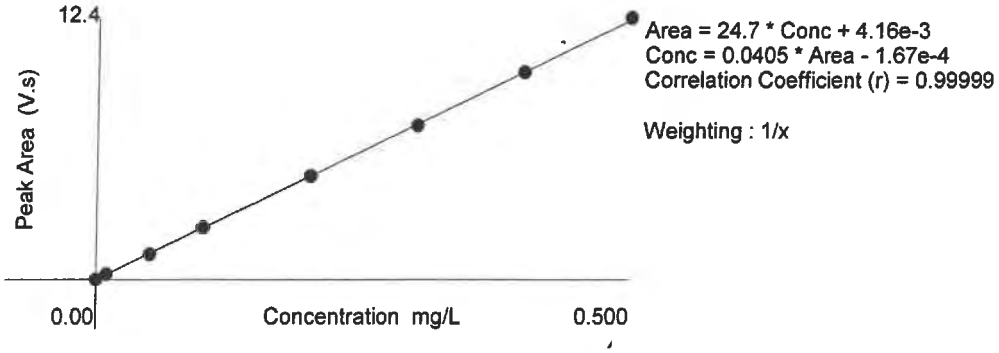
Sample	Rep.	Cup No.	Channel 1 Cyanide Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
Cal Std 1 - 0.5	1	S1	0.500	12.4	0.572	6/7/2022@6:48:30 AM
Cal Std 2 - 0.4	1	S2	0.400	9.88	0.459	6/7/2022@6:49:56 AM
Cal Std 3 - 0.3	1	S3	0.300	7.34	0.343	6/7/2022@6:51:23 AM
Cal Std 4 - 0.2	1	S4	0.200	4.95	0.237	6/7/2022@6:52:50 AM
Cal Std 5 - 0.1	1	S5	0.100	2.48	0.117	6/7/2022@6:54:17 AM
Cal Std 6 - 0.05	1	S6	0.0500	1.21	0.0561	6/7/2022@6:55:45 AM
Cal Std 7 - 0.01	1	S7	0.0100	0.255	0.0106	6/7/2022@6:57:13 AM
cal Std 8 - 0	1	S10	0.00	5.05e-3	1.46e-3	6/7/2022@6:58:39 AM
icv	1	1	0.226	5.60	0.262	6/7/2022@7:00:06 AM
Known Conc:			1.50			
Calibration:			Table/Fig. : 1			
icb	1	S10	-3.56e-3	-0.0837	-2.23e-3	6/7/2022@7:01:33 AM
Known Conc:			100			
icvl	1	S7	0.0141	0.351	0.0131	6/7/2022@7:03:00 AM
Known Conc:			0.00			

90%

Table : 1 (Cyanide)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	12.4	0.572	0.0	-0.8	0.504	6/7/2022	6:48:30 AM
2	0.400	1	9.88	0.459	0.0	0.1	0.400	6/7/2022	6:49:56 AM
3	0.300	1	7.34	0.343	0.0	1.0	0.297	6/7/2022	6:51:23 AM
4	0.200	1	4.95	0.237	0.0	-0.1	0.200	6/7/2022	6:52:50 AM
5	0.100	1	2.48	0.117	0.0	-0.2	0.100	6/7/2022	6:54:17 AM
6	0.0500	1	1.21	0.0561	0.0	1.9	0.0490	6/7/2022	6:55:45 AM
7	0.0100	1	0.255	0.0106	0.0	-1.6	0.0102	6/7/2022	6:57:13 AM
8	0.00	1	5.05e-3	1.46e-3			3.77e-5	6/7/2022	6:58:39 AM

Figure : 1 (Cyanide)



Historical Data Summary Report

For Batch 629819

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198572-B-2-A	PS-SS1 GRAB	335.4	Cyanide, Total	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.082	☐	0 - 0.061
480-198574-A-2-A	MONTHLY LEACHA	335.4	Cyanide	Total/NA	mg/L	8	1.0	0.045	☐	0.01 - 0.101	☐	0.028 - 0.097
480-198635-I-1-A	001	335.4	Cyanide, Total	Total/NA	mg/L	8	1.0	0.010	☐	0 - 0.193	☐	0 - 0.204
480-198720-F-1-A	CD-1	335.4	Cyanide, Total	Total/NA	mg/L	5	1.0	ND	☐	0 - 0.038	☐	0 - 0.032
480-198720-F-2-A	CD-1RA	335.4	Cyanide, Total	Total/NA	mg/L	7	1.0	ND	☐	0 - 0.03	☐	0 - 0.03
480-198720-F-3-A	MW-1B	335.4	Cyanide, Total	Total/NA	mg/L	5	1.0	0.011	☑	0 - 0	☑	0 - 0

OK

629693

Analyst: EL Date: 6.11.22
TALS Batch #:

Eurofins Buffalo
Cyanide Micro-Distillation Logbook Logbook # A22-16

Job #	Sample I.D.	Dist. Flask	Sample Volume (mL)	Soil Weight (g)	Spike Volume	If Spiked Please Check:	Comments
mb	—	1	6ml				
LCS	.400	2	"		6 ml	✓	
LCS	.250	3			6 ml	✓	
CCV1	.100	4			6ml	✓	
198568	A-2	5					
"	A-2-du	6					
	D-3	7					
	D-3-MS	8			6 ml	✓	
	A-5	9					
	A-7	10					
	A-11	11					
	A-12	12					
198572	B-2	13					
198574	A-2	14					
198609	G-1	15					
198635	I-1	16					
198644	E-1	17					
198705	I-1	18					
198720	F-1	19					
"	F-2	20					
	F-3	21					
"	F-3-MS	22	"		6ml	✓	

Start Time: 14:15
End Time: 14:45
Cl₂ Check: EL
H₂S Check: ✓

0.400 mg/L Complex CN LCS: 702729
0.250 mg/L Complex CN LCS: 702732
0.100 mg/L Free CN CCVL: 702745
10 ppm Complex CN MS: 702726
10 ppm Free CN MS:
ERA Soil Lot:

1.0 N NaOH: 698966
7.11M H_2SO_4 / 0.79M $MgCl_2$: 702695
H_3NSO_3: 697518
$NaCH_3COO$:
$ZnCH_3COO$:

SimpleDist Block C : Set Temp. (°C): 135 Measured Start Temp. (°C): 135.5 Measured End Temp. (°C):

Reviewed By: EL Date: 6.11.22

630238

CN Solutions:

Potassium Phosphate Buffer	**7022970**	**Exp: 7/07/2022**
Pyridine Barbituric Acid	**7024983**	**Exp: 6/15/2022**
Chloramine-T	**7033820**	**Exp: 6/16/2022**
50ppm INT STD	**7032569**	**Exp: 6/21/2022**
CN .25ppm CCV Std	**7033821**	**Exp: 6/16//2022**

LCS = 0.4mg/L, 0.25mg/L
CCV = 0.25mg/L
MS/MSD = 0.1mg/L

Cyanide Curve Lachat 2 : 6/07/2022
Curve Standard (50 ppm): 7021733
ICV (0.250 ppm): 628905/3

Author: BufLachat2

Date : 6/15/2022

630238

Original Run Filename: OM_6-15-2022_06-02-06PM.OMN Created: 6/15/2022 6:02:06 PM
Original Run Author's Signature: [BufLachat2]
Current Run Filename: OM_6-15-2022_06-02-06PM.OMN Last Modified: 6/15/2022 6:51:24 PM
Current Run Author's Signature: [BufLachat2]
Description: 10-204-00-1-A

Sample	Rep.	Cup No.	Channel 1 Cyanide Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
CCV	1	S9	0.246	6.07	0.269	6/15/2022@6:06:26 PM
	Known Conc:		0.250			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	-2.99e-3	-0.0698	1.88e-3	6/15/2022@6:07:53 PM
	Known Conc:		0.00			
MB 480-630206/1-A	1	1	-1.22e-3	-0.0259	-2.08e-3	6/15/2022@6:09:20 PM
LCS 480-630206/2-A	1	2	0.392	9.67	0.432	6/15/2022@6:10:47 PM
LCS 480-630206/3-A	1	3	0.242	5.99	0.268	6/15/2022@6:12:14 PM
CCVL 480-630206/4-A	1	4	0.113	2.78	0.124	6/15/2022@6:13:41 PM
480-198718-F-2-A	1	5	6.50e-3	0.165	4.96e-3	6/15/2022@6:15:08 PM
480-198718-F-2-B MS	1	6	9.60e-3	0.241	8.98e-3	6/15/2022@6:16:34 PM
480-198718-F-2-C MSD	1	7	9.62e-3	0.242	8.90e-3	6/15/2022@6:18:01 PM
480-198718-F-3-A	1	8	7.04e-3	0.178	8.68e-3	6/15/2022@6:19:27 PM
480-198718-F-4-A	1	9	3.82e-3	0.0984	4.94e-3	6/15/2022@6:20:54 PM
480-198718-F-5-A	1	10	2.92e-3	0.0763	3.47e-3	6/15/2022@6:22:20 PM
CCV	1	S9	0.244	6.02	0.267	6/15/2022@6:23:46 PM
	Known Conc:		0.250			
CCB	1	S10	-3.27e-3	-0.0767	-2.85e-3	6/15/2022@6:25:12 PM
	Known Conc:		0.00			
480-198718-F-6-A	1	11	7.20e-3	0.182	5.11e-3	6/15/2022@6:26:38 PM
480-198718-F-7-A	1	12	3.47e-3	0.0898	3.41e-3	6/15/2022@6:28:04 PM
480-198718-F-8-A	1	13	3.85e-3	0.0991	3.17e-3	6/15/2022@6:29:30 PM
480-198718-F-9-A	1	14	5.60e-3	0.143	5.58e-3	6/15/2022@6:30:56 PM
480-198651-L-7-A	1	15	-2.80e-3	-0.0649	-2.51e-3	6/15/2022@6:32:22 PM
480-198719-I-1-A	1	16	6.07e-3	0.154	5.05e-3	6/15/2022@6:33:49 PM
480-198723-F-1-A	1	17	3.96e-3	0.102	3.55e-3	6/15/2022@6:35:16 PM
480-198736-D-1-C	1	18	-1.49e-4	4.38e-4	6.38e-4	6/15/2022@6:36:43 PM
480-198720-F-4-C	1	19	3.91e-3	0.101	3.18e-3	6/15/2022@6:38:10 PM
620-4903-L-1-A	1	20	2.99e-3	0.0780	3.96e-3	6/15/2022@6:39:37 PM
CCV	1	S9	0.244	6.03	0.268	6/15/2022@6:41:03 PM
	Known Conc:		100			
CCB	1	S10	2.65e-3	0.0695	2.22e-3	6/15/2022@6:42:29 PM
	Known Conc:		100			
620-4903-L-2-A	1	21	4.48e-3	0.115	4.14e-3	6/15/2022@6:43:56 PM
620-4903-L-2-B MS	1	22	0.0202	0.504	0.0199	6/15/2022@6:45:22 PM
CCV	1	S9	0.243	6.02	0.267	6/15/2022@6:46:48 PM
	Known Conc:		100			
CCB	1	S10	6.74e-4	0.0208	1.61e-3	6/15/2022@6:48:15 PM
	Known Conc:		100			

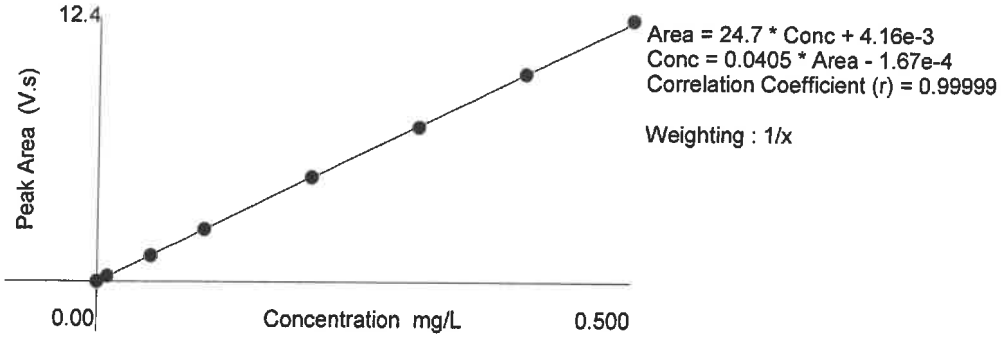
Table : 1 (Cyanide)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	12.4	0.572	0.0	-0.8	0.504	6/7/2022	6:48:30 AM
2	0.400	1	9.88	0.459	0.0	0.1	0.400	6/7/2022	6:49:56 AM
3	0.300	1	7.34	0.343	0.0	1.0	0.297	6/7/2022	6:51:23 AM
4	0.200	1	4.95	0.237	0.0	-0.1	0.200	6/7/2022	6:52:50 AM
5	0.100	1	2.48	0.117	0.0	-0.2	0.100	6/7/2022	6:54:17 AM
6	0.0500	1	1.21	0.0561	0.0	1.9	0.0490	6/7/2022	6:55:45 AM
7	0.0100	1	0.255	0.0106	0.0	-1.6	0.0102	6/7/2022	6:57:13 AM
8	0.00	1	5.05e-3	1.46e-3			3.77e-5	6/7/2022	6:58:39 AM

Author: BufLachat2

Date : 6/15/2022

Figure : 1 (Cyanide)



Author: BufLachat2

Date : 6/7/2022

Original Run Filename: OM_6-7-2022_06-47-34AM.OMN Created: 6/7/2022 6:47:34 AM
Original Run Author's Signature: [BufLachat2]
Current Run Filename: OM_6-7-2022_06-47-34AM.OMN Last Modified: 6/7/2022 7:06:10 AM
Current Run Author's Signature: [BufLachat2]
Description: 10-204-00-1-A

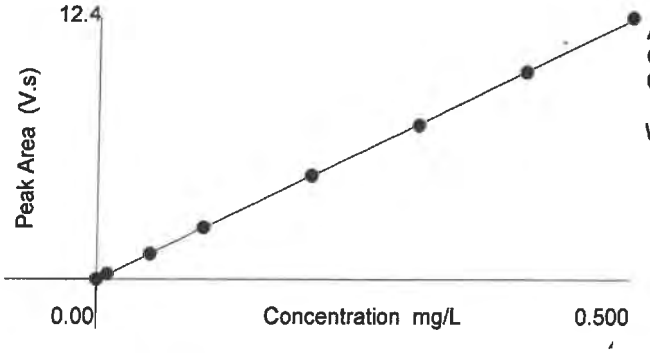
Sample	Rep.	Cup No.	Channel 1 Cyanide Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
Cal Std 1 - 0.5	1	S1	0.500	12.4	0.572	6/7/2022@6:48:30 AM
Cal Std 2 - 0.4	1	S2	0.400	9.88	0.459	6/7/2022@6:49:56 AM
Cal Std 3 - 0.3	1	S3	0.300	7.34	0.343	6/7/2022@6:51:23 AM
Cal Std 4 - 0.2	1	S4	0.200	4.95	0.237	6/7/2022@6:52:50 AM
Cal Std 5 - 0.1	1	S5	0.100	2.48	0.117	6/7/2022@6:54:17 AM
Cal Std 6 - 0.05	1	S6	0.0500	1.21	0.0561	6/7/2022@6:55:45 AM
Cal Std 7 - 0.01	1	S7	0.0100	0.255	0.0106	6/7/2022@6:57:13 AM
cal Std 8 - 0	1	S10	0.00	5.05e-3	1.46e-3	6/7/2022@6:58:39 AM
icv	1	1	0.226	5.60	0.262	6/7/2022@7:00:06 AM
Known Conc:			1.50			
Calibration:			Table/Fig. : 1			
icb	1	S10	-3.56e-3	-0.0837	-2.23e-3	6/7/2022@7:01:33 AM
Known Conc:			100			
icvl	1	S7	0.0141	0.351	0.0131	6/7/2022@7:03:00 AM
Known Conc:			0.00			

90%

Table : 1 (Cyanide)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	12.4	0.572	0.0	-0.8	0.504	6/7/2022	6:48:30 AM
2	0.400	1	9.88	0.459	0.0	0.1	0.400	6/7/2022	6:49:56 AM
3	0.300	1	7.34	0.343	0.0	1.0	0.297	6/7/2022	6:51:23 AM
4	0.200	1	4.95	0.237	0.0	-0.1	0.200	6/7/2022	6:52:50 AM
5	0.100	1	2.48	0.117	0.0	-0.2	0.100	6/7/2022	6:54:17 AM
6	0.0500	1	1.21	0.0561	0.0	1.9	0.0490	6/7/2022	6:55:45 AM
7	0.0100	1	0.255	0.0106	0.0	-1.6	0.0102	6/7/2022	6:57:13 AM
8	0.00	1	5.05e-3	1.46e-3			3.77e-5	6/7/2022	6:58:39 AM

Figure : 1 (Cyanide)



Area = 24.7 * Conc + 4.16e-3
Conc = 0.0405 * Area - 1.67e-4
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Historical Data Summary Report

For Batch 630238

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits	
480-198651-L-7-A	MW-LB	9012B	Cyanide, Total	Total/NA	mg/L	2	1.0	ND	☐	0 - 0.032	☑	0.006 - 0.01	OK
480-198718-F-2-A	NSLMW05	9012B	Cyanide, Total	Total/NA	mg/L	1	1.0	0.010	☐	0.01 - 0.01	☐	0.008 - 0.012	
480-198718-F-3-A	NSLMW10	9012B	Cyanide, Total	Total/NA	mg/L	1	1.0	0.010	☐	0.01 - 0.01	☐	0.008 - 0.012	
480-198718-F-4-A	NSLFW01	9012B	Cyanide, Total	Total/NA	mg/L	1	1.0	0.010	☐	0.01 - 0.01	☐	0.008 - 0.012	
480-198718-F-5-A	NSLEW01	9012B	Cyanide, Total	Total/NA	mg/L	1	1.0	0.010	☐	0.01 - 0.01	☐	0.008 - 0.012	
480-198718-F-7-A	NSLMW06	9012B	Cyanide, Total	Total/NA	mg/L	1	1.0	0.010	☐	0.01 - 0.01	☐	0.008 - 0.012	
480-198718-F-8-A	NSLMW07	9012B	Cyanide, Total	Total/NA	mg/L	1	1.0	0.010	☐	0.01 - 0.01	☐	0.008 - 0.012	
480-198718-F-9-A	NSLMW08	9012B	Cyanide, Total	Total/NA	mg/L	1	1.0	0.010	☐	0.01 - 0.01	☐	0.008 - 0.012	
480-198719-I-1-A	MW-OL	9012B	Cyanide, Total	Total/NA	mg/L	1	1.0	0.010	☐	0.01 - 0.01	☐	0.008 - 0.012	
480-198723-F-1-A	MSW Phase 4 Outfa	9012B	Cyanide, Total	Total/NA	mg/L	2	1.0	0.0061	☑	0 - 0	☑	0 - 0	OK
				Total/NA	mg/L	2	1.0	ND	☐	0 - 0	☐	0 - 0	

Analyst: EA Date: 6-15-22 630206
TALS Batch #:

Eurofins Buffalo
Cyanide Micro-Distillation Logbook Logbook # A22-16

Job #	Sample I.D.	Dist. Flask	Sample Volume (mL)	Soil Weight (g)	Spike Volume	If Spiked Please Check:	Comment
mb	—	1	6ml				
lcs	.400	2	—				
lcs	.256	3			6ml	✓	
ccv1	.100	4			6ml	✓	
198718	F-2	5			6ml	✓	
	F-2 ms	6					
	F-2 msd	7			60 ul	✓	
	F-3	8			60 ul	✓	
	F-4	9					
	F-5	10					
	F-6	11					
	F-7	12					
	F-8	13					
	F-9	14					
198651	L-7	15					
198719	I-1	16					
198723	F-1	17					
198736	D-1	18					
198720	F-4	19					
620-4903	L-1	20					
"	L-2	21					
"	L-2 ms	22			60 ul	✓	

Start Time: 1530
End Time: 1610

Cl₂ Check: EA
H₂S Check: EA

0.400 mg/L Complex CN LCS: 702 1729
0.250 mg/L Complex CN LCS: 702 1732
0.100 mg/L Free CN CCVL: 702 1745
10 ppm Complex CN MS: 702 1726
10 ppm Free CN MS:
ERA Soil Lot:

1.0 N NaOH: 698462
7.11M H_2SO_4 / 0.79M $MgCl_2$: 702 5695
H_2NSO_3: 697050
$NaCH_3COO$:
$ZnCH_3COO$:

SimpleDist Block C: Set Temp. (°C): 135 Measured Start Temp. (°C): 135.4 Measured End Temp. (°C): 135

Reviewed By: EA Date: 6-15-22

630471

CN Solutions:

Potassium Phosphate Buffer	**7022970**	**Exp: 7/07/2022**
Pyridine Barbituric Acid	**7036094**	**Exp: 6/23/2022**
Chloramine-T	**7038937**	**Exp: 6/18/2022**
50ppm INT STD	**7032569**	**Exp: 6/21/2022**
CN .25ppm CCV Std	**7039224**	**Exp: 6/18//2022**

LCS = 0.4mg/L, 0.25mg/L
CCV = 0.25mg/L
MS/MSD = 0.1mg/L

Cyanide Curve Lachat 2 : 6/07/2022
Curve Standard (50 ppm): 7021733
ICV (0.250 ppm): 628905/3

Author: BufLachat2

Date : 6/17/2022

630471

Original Run Filename: OM_6-17-2022_08-45-27AM.OMN Created: 6/17/2022 8:45:27 AM
Original Run Author's Signature: [BufLachat2]
Current Run Filename: OM_6-17-2022_08-45-27AM.OMN Last Modified: 6/17/2022 9:31:22 AM
Current Run Author's Signature: [BufLachat2]
Description: 10-204-00-1-A

Sample	Rep.	Cup No.	Channel 1 Cyanide Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
CCV	1	S9	0.251	6.21	0.301	6/17/2022@8:46:24 AM
	Known Conc:		0.250			
CCB	1	S10	-5.51e-3	-0.132	-4.16e-3	6/17/2022@8:47:50 AM
	Known Conc:		0.00			
	Calibration:		Table/Fig. : 1			
MB 480-630398/1-A	1	1	2.24e-3	0.0595	4.59e-3	6/17/2022@8:49:17 AM
LCS 480-630398/2-A	1	2	0.246	6.09	0.294	6/17/2022@8:50:44 AM
CCVL 480-630398/3-A	1	3	0.116	2.88	0.132	6/17/2022@8:52:11 AM
480-198763-B-2-A	1	4	2.89e-3	0.0755	2.54e-3	6/17/2022@8:53:39 AM
480-198763-B-2-B DU	1	5	4.13e-3	0.106	4.71e-3	6/17/2022@8:55:05 AM
480-198763-F-3-A	1	6	3.69e-3	0.0953	3.54e-3	6/17/2022@8:56:32 AM
480-198763-F-3-B MS	1	7	8.30e-3	0.209	7.76e-3	6/17/2022@8:57:59 AM
480-198763-F-5-A	1	8	3.33e-3	0.0863	3.14e-3	6/17/2022@8:59:26 AM
480-198763-F-6-A	1	9	3.99e-3	0.103	3.05e-3	6/17/2022@9:00:51 AM
480-198763-F-7-A	1	10	3.01e-3	0.0786	2.01e-3	6/17/2022@9:02:18 AM
CCV	1	S9	0.251	6.20	0.293	6/17/2022@9:03:44 AM
	Known Conc:		0.250			
CCB	1	S10	2.73e-4	0.0109	7.78e-4	6/17/2022@9:05:10 AM
	Known Conc:		0.00			
480-198763-F-4-A	1	11	4.19e-3	0.108	3.43e-3	6/17/2022@9:06:36 AM
480-198813-E-1-B	1	12	4.69e-3	0.120	3.41e-3	6/17/2022@9:08:02 AM
480-198813-E-2-C	1	13	3.77e-3	0.0971	3.78e-3	6/17/2022@9:09:28 AM
480-198813-E-3-A	1	14	3.44e-3	0.0891	3.01e-3	6/17/2022@9:10:54 AM
480-198813-E-4-A	1	15	8.05e-3	0.203	7.36e-3	6/17/2022@9:12:19 AM
480-198813-E-5-A	1	16	1.36e-3	0.0376	4.62e-3	6/17/2022@9:13:46 AM
480-198813-E-6-A	1	17	2.10e-3	0.0561	3.00e-3	6/17/2022@9:15:14 AM
480-198813-E-7-A	1	18	2.06e-3	0.0549	2.58e-3	6/17/2022@9:16:41 AM
480-198813-E-8-A	1	19	-1.75e-3	-0.0390	-5.70e-3	6/17/2022@9:18:08 AM
480-198813-E-9-A	1	20	1.99e-3	0.0534	2.12e-3	6/17/2022@9:19:35 AM
CCV	1	S9	0.250	6.18	0.284	6/17/2022@9:21:00 AM
	Known Conc:		100			
CCB	1	S10	-4.04e-3	-0.0956	-2.40e-3	6/17/2022@9:22:27 AM
	Known Conc:		100			
620-4920-A-1-A	1	21	0.0101	0.254	9.36e-3	6/17/2022@9:23:54 AM
620-4920-A-1-B MS	1	22	0.0200	0.498	0.0236	6/17/2022@9:25:20 AM
CCV	1	S9	0.248	6.13	0.300	6/17/2022@9:26:46 AM
	Known Conc:		100			
CCB	1	S10	8.37e-4	0.0248	1.39e-3	6/17/2022@9:28:12 AM
	Known Conc:		100			

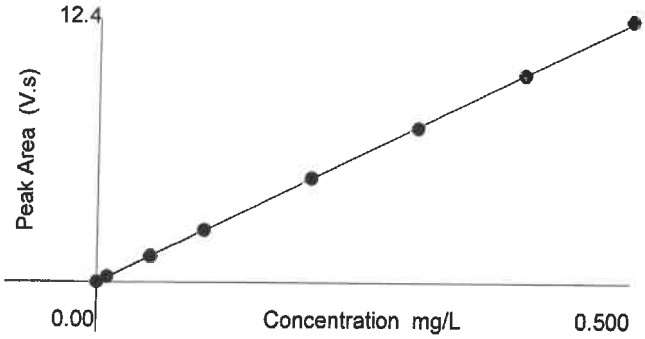
Table : 1 (Cyanide)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	12.4	0.572	0.0	-0.8	0.504	6/7/2022	6:48:30 AM
2	0.400	1	9.88	0.459	0.0	0.1	0.400	6/7/2022	6:49:56 AM
3	0.300	1	7.34	0.343	0.0	1.0	0.297	6/7/2022	6:51:23 AM
4	0.200	1	4.95	0.237	0.0	-0.1	0.200	6/7/2022	6:52:50 AM
5	0.100	1	2.48	0.117	0.0	-0.2	0.100	6/7/2022	6:54:17 AM
6	0.0500	1	1.21	0.0561	0.0	1.9	0.0490	6/7/2022	6:55:45 AM
7	0.0100	1	0.255	0.0106	0.0	-1.6	0.0102	6/7/2022	6:57:13 AM
8	0.00	1	5.05e-3	1.46e-3			3.77e-5	6/7/2022	6:58:39 AM

Author: BufLachat2

Date : 6/17/2022

Figure : 1 (Cyanide)



Area = 24.7 * Conc + 4.16e-3
Conc = 0.0405 * Area - 1.67e-4
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Author: BufLachat2

Date : 6/7/2022

Original Run Filename: OM_6-7-2022_06-47-34AM.OMN Created: 6/7/2022 6:47:34 AM
Original Run Author's Signature: [BufLachat2]
Current Run Filename: OM_6-7-2022_06-47-34AM.OMN Last Modified: 6/7/2022 7:06:10 AM
Current Run Author's Signature: [BufLachat2]
Description: 10-204-00-1-A

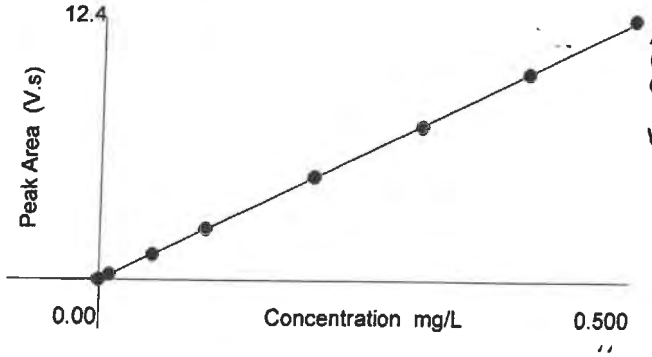
Sample	Rep.	Cup No.	Channel 1 Cyanide Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
Cal Std 1 - 0.5	1	S1	0.500	12.4	0.572	6/7/2022@6:48:30 AM
Cal Std 2 - 0.4	1	S2	0.400	9.88	0.459	6/7/2022@6:49:56 AM
Cal Std 3 - 0.3	1	S3	0.300	7.34	0.343	6/7/2022@6:51:23 AM
Cal Std 4 - 0.2	1	S4	0.200	4.95	0.237	6/7/2022@6:52:50 AM
Cal Std 5 - 0.1	1	S5	0.100	2.48	0.117	6/7/2022@6:54:17 AM
Cal Std 6 - 0.05	1	S6	0.0500	1.21	0.0561	6/7/2022@6:55:45 AM
Cal Std 7 - 0.01	1	S7	0.0100	0.255	0.0106	6/7/2022@6:57:13 AM
cal Std 8 - 0	1	S10	0.00	5.05e-3	1.46e-3	6/7/2022@6:58:39 AM
icv	1	1	0.226	5.60	0.262	6/7/2022@7:00:06 AM
Known Conc:			1.50			
Calibration:			Table/Fig. : 1			
icb	1	S10	-3.56e-3	-0.0837	-2.23e-3	6/7/2022@7:01:33 AM
Known Conc:			100			
icvl	1	S7	0.0141	0.351	0.0131	6/7/2022@7:03:00 AM
Known Conc:			0.00			

90%

Table : 1 (Cyanide)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	12.4	0.572	0.0	-0.8	0.504	6/7/2022	6:48:30 AM
2	0.400	1	9.88	0.459	0.0	0.1	0.400	6/7/2022	6:49:56 AM
3	0.300	1	7.34	0.343	0.0	1.0	0.297	6/7/2022	6:51:23 AM
4	0.200	1	4.95	0.237	0.0	-0.1	0.200	6/7/2022	6:52:50 AM
5	0.100	1	2.48	0.117	0.0	-0.2	0.100	6/7/2022	6:54:17 AM
6	0.0500	1	1.21	0.0561	0.0	1.9	0.0490	6/7/2022	6:55:45 AM
7	0.0100	1	0.255	0.0106	0.0	-1.6	0.0102	6/7/2022	6:57:13 AM
8	0.00	1	5.05e-3	1.46e-3			3.77e-5	6/7/2022	6:58:39 AM

Figure : 1 (Cyanide)



Area = 24.7 * Conc + 4.16e-3
Conc = 0.0405 * Area - 1.67e-4
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Historical Data Summary Report

For Batch 630471

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198813-E-1-B	MW-1A	335.4	Cyanide, Total	Total/NA	mg/L	5	1.0	ND	☐	0 - 0.018	☐	0 - 0.016
480-198813-E-2-C	MW-2A	335.4	Cyanide, Total	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-198813-E-3-A	MW-2B	335.4	Cyanide, Total	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198813-E-4-A	MW-3A	335.4	Cyanide, Total	Total/NA	mg/L	5	1.0	ND	☐	0 - 0.05	☐	0 - 0.043
480-198813-E-5-A	MW-3B	335.4	Cyanide, Total	Total/NA	mg/L	5	1.0	ND	☐	0 - 0.03	☐	0 - 0.024
480-198813-E-6-A	MW-4A	335.4	Cyanide, Total	Total/NA	mg/L	5	1.0	ND	☐	0 - 0.015	☐	0 - 0.013
480-198813-E-7-A	MW-5A	335.4	Cyanide, Total	Total/NA	mg/L	5	1.0	ND	☐	0 - 0.023	☐	0 - 0.016
480-198813-E-8-A	MW-6A	335.4	Cyanide, Total	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-198813-E-9-A	MW-6B	335.4	Cyanide, Total	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0

630398

Analyst: EC Date: 6-16-22
TALS Batch #: _____

Eurofins Buffalo
Cyanide Micro-Distillation Logbook Logbook # A22-16

Job #	Sample I.D.	Dist. Flask	Sample Volume (mL)	Soil Weight (g)	Spike Volume	If Spiked Please Check:	Comments
mb	—	1	6ml				
lcs	.250	2	"				
ccv1	.100	3	"		6 ml	✓	
198763	B-2	4	"		6 ml	✓	
198763	B-2 dup	5	"				
	F-3	6	"				
	F-3 ms	7	"		60ml	✓	
	F-5	8	"				
	F-6	9	"				
	F-7	10	"				
	F-4	11	"				
198813	E-1	12	"				
	E-2	13	"				
	E-3	14	"				
	E-4	15	"				
	E-5	16	"				
	E-6	17	"				
	E-7	18	"				
	E-8	19	"				
	E-9	20	"				
6206-49206	A-1	21	"				
	A-1 ms	22	—		60ml	✓	

Start Time: 21:15
End Time: 21:15

Cl₂ Check: EC
H₂S Check: EC

0.400 mg/L Complex CN LCS: _____
0.250 mg/L Complex CN LCS: 703248Z
0.100 mg/L Free CN CCVL: 703257Ø
10 ppm Complex CN MS: 703256I
10 ppm Free CN MS: —
ERA Soil Lot: _____

1.0 N NaOH: 6989622
7.11M H_2SO_4/0.79M $MgCl_2$: 7025695
H_3NSO_3: 6970510
$NaCH_3COO$: _____
$ZnCH_3COO$: _____

SimpleDist Block 1/5: Set Temp. (°C): 135 Measured Start Temp. (°C): 135 Measured End Temp. (°C): 135

Reviewed By: EC Date: 6-16-22

630539

CN Solutions:

Potassium Phosphate Buffer	**7022970**	**Exp: 7/07/2022**
Pyridine Barbituric Acid	**7036094**	**Exp: 6/23/2022**
Chloramine-T	**7038937**	**Exp: 6/18/2022**
50ppm INT STD	**7032569**	**Exp: 6/21/2022**
CN .25ppm CCV Std	**7039224**	**Exp: 6/18//2022**

LCS = 0.4mg/L, 0.25mg/L
CCV = 0.25mg/L
MS/MSD = 0.1mg/L

Cyanide Curve Lachat 2 : 6/07/2022
Curve Standard (50 ppm): 7021733
ICV (0.250 ppm): 628905/3

Author: BufLachat2

Date : 6/17/2022

Original Run Filename: OM_6-17-2022_12-57-45PM.OMN Created: 6/17/2022 12:57:45 PM
Original Run Author's Signature: [BufLachat2]
Current Run Filename: OM_6-17-2022_12-57-45PM.OMN Last Modified: 6/17/2022 1:43:41 PM
Current Run Author's Signature: [BufLachat2]
Description: 10-204-00-1-A

630539

Sample	Rep.	Cup No.	Channel 1 Cyanide Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
CCV	1	S9	0.253	6.26	0.280	6/17/2022@12:58:42 PM
	Known Conc:		0.250			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	-1.85e-3	-0.0416	-1.62e-3	6/17/2022@1:00:08 PM
	Known Conc:		0.00			
mb 480-630516/1-a	1	1	0.0100	0.252	8.86e-3	6/17/2022@1:01:36 PM
lcs 480-630516/2-a	1	2	0.375	9.27	0.412	6/17/2022@1:03:03 PM
lcs 480-630516/3-a	1	3	0.240	5.93	0.266	6/17/2022@1:04:30 PM
ccvl 480-630516/4-a	1	4	0.116	2.86	0.127	6/17/2022@1:05:57 PM
480-198743-b-2-b	1	5	9.99e-3	0.251	0.0112	6/17/2022@1:07:24 PM
480-198743-b-2-c du	1	6	5.66e-3	0.144	5.41e-3	6/17/2022@1:08:51 PM
480-198813-e-10-a	1	7	7.31e-3	0.185	7.34e-3	6/17/2022@1:10:17 PM
480-198813-e-10-b ms	1	8	0.0126	0.316	0.0111	6/17/2022@1:11:44 PM
480-198815-e-1-a	1	9	0.0124	0.310	8.77e-3	6/17/2022@1:13:10 PM
480-198815-e-2-a	1	10	5.66e-3	0.144	4.89e-3	6/17/2022@1:14:36 PM
CCV	1	S9	0.252	6.23	0.279	6/17/2022@1:16:02 PM
	Known Conc:		0.250			
CCB	1	S10	3.86e-4	0.0136	1.96e-3	6/17/2022@1:17:29 PM
	Known Conc:		0.00			
480-198816-k-1-a	1	11	7.90e-3	0.199	8.15e-3	6/17/2022@1:18:55 PM
480-198816-k-5-a	1	12	8.01e-3	0.202	7.77e-3	6/17/2022@1:20:21 PM
480-198825-d-2-a	1	13	5.14e-3	0.131	5.05e-3	6/17/2022@1:21:47 PM
480-198825-d-3-a	1	14	0.0535	1.33	0.0523	6/17/2022@1:23:12 PM
480-198825-b-4-a	1	15	0.0112	0.281	0.0115	6/17/2022@1:24:38 PM
480-198825-b-9-a	1	16	8.57e-3	0.216	8.02e-3	6/17/2022@1:26:05 PM
480-198825-b-10-a	1	17	9.02e-3	0.227	7.44e-3	6/17/2022@1:27:33 PM
480-198825-b-12-a	1	18	0.0122	0.306	0.0133	6/17/2022@1:28:59 PM
620-4903-l-4-a	1	19	0.0138	0.346	0.0123	6/17/2022@1:30:26 PM
620-4938-l-1-a	1	20	6.58e-3	0.167	5.87e-3	6/17/2022@1:31:53 PM
CCV	1	S9	0.253	6.25	0.278	6/17/2022@1:33:19 PM
	Known Conc:		100			
CCB	1	S10	1.93e-3	0.0517	2.08e-3	6/17/2022@1:34:46 PM
	Known Conc:		100			
620-4938-l-1-b ms	1	21	0.0107	0.270	0.0107	6/17/2022@1:36:12 PM
Sample28	1	22	0.0862	2.13	1.11	6/17/2022@1:37:39 PM
CCV	1	S9	0.253	6.26	0.282	6/17/2022@1:39:05 PM
	Known Conc:		100			
CCB	1	S10	1.63e-3	0.0443	2.38e-3	6/17/2022@1:40:31 PM
	Known Conc:		100			

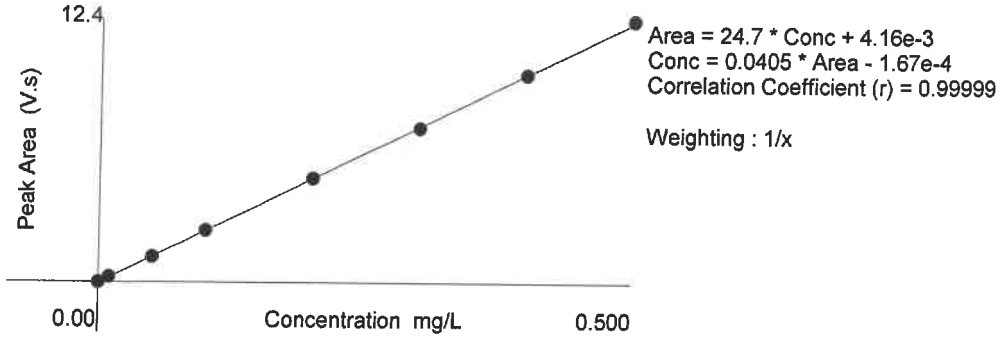
Table : 1 (Cyanide)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	12.4	0.572	0.0	-0.8	0.504	6/7/2022	6:48:30 AM
2	0.400	1	9.88	0.459	0.0	0.1	0.400	6/7/2022	6:49:56 AM
3	0.300	1	7.34	0.343	0.0	1.0	0.297	6/7/2022	6:51:23 AM
4	0.200	1	4.95	0.237	0.0	-0.1	0.200	6/7/2022	6:52:50 AM
5	0.100	1	2.48	0.117	0.0	-0.2	0.100	6/7/2022	6:54:17 AM
6	0.0500	1	1.21	0.0561	0.0	1.9	0.0490	6/7/2022	6:55:45 AM
7	0.0100	1	0.255	0.0106	0.0	-1.6	0.0102	6/7/2022	6:57:13 AM
8	0.00	1	5.05e-3	1.46e-3			3.77e-5	6/7/2022	6:58:39 AM

Author: BufLachat2

Date : 6/17/2022

Figure : 1 (Cyanide)



Author: BufLachat2

Date : 6/7/2022

Original Run Filename: OM_6-7-2022_06-47-34AM.OMN Created: 6/7/2022 6:47:34 AM
Original Run Author's Signature: [BufLachat2]
Current Run Filename: OM_6-7-2022_06-47-34AM.OMN Last Modified: 6/7/2022 7:06:10 AM
Current Run Author's Signature: [BufLachat2]
Description: 10-204-00-1-A

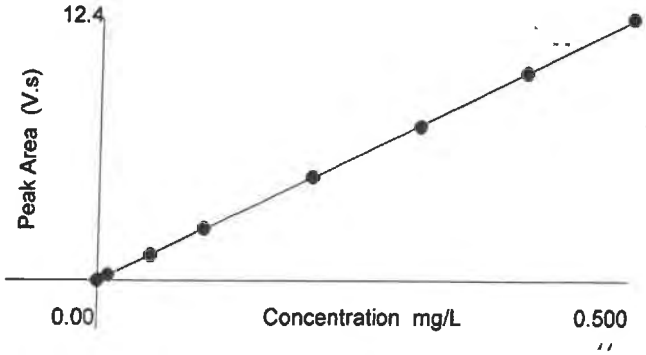
Sample	Rep.	Cup No.	Channel 1 Cyanide Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
Cal Std 1 - 0.5	1	S1	0.500	12.4	0.572	6/7/2022@6:48:30 AM
Cal Std 2 - 0.4	1	S2	0.400	9.88	0.459	6/7/2022@6:49:56 AM
Cal Std 3 - 0.3	1	S3	0.300	7.34	0.343	6/7/2022@6:51:23 AM
Cal Std 4 - 0.2	1	S4	0.200	4.95	0.237	6/7/2022@6:52:50 AM
Cal Std 5 - 0.1	1	S5	0.100	2.48	0.117	6/7/2022@6:54:17 AM
Cal Std 6 - 0.05	1	S6	0.0500	1.21	0.0561	6/7/2022@6:55:45 AM
Cal Std 7 - 0.01	1	S7	0.0100	0.255	0.0106	6/7/2022@6:57:13 AM
cal Std 8 - 0	1	S10	0.00	5.05e-3	1.46e-3	6/7/2022@6:58:39 AM
icv	1	1	0.226	5.60	0.262	6/7/2022@7:00:06 AM
Known Conc:			1.50			
Calibration:			Table/Fig. : 1			
icb	1	S10	-3.56e-3	-0.0837	-2.23e-3	6/7/2022@7:01:33 AM
Known Conc:			100			
icvl	1	S7	0.0141	0.351	0.0131	6/7/2022@7:03:00 AM
Known Conc:			0.00			

90%

Table : 1 (Cyanide)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	12.4	0.572	0.0	-0.8	0.504	6/7/2022	6:48:30 AM
2	0.400	1	9.88	0.459	0.0	0.1	0.400	6/7/2022	6:49:56 AM
3	0.300	1	7.34	0.343	0.0	1.0	0.297	6/7/2022	6:51:23 AM
4	0.200	1	4.95	0.237	0.0	-0.1	0.200	6/7/2022	6:52:50 AM
5	0.100	1	2.48	0.117	0.0	-0.2	0.100	6/7/2022	6:54:17 AM
6	0.0500	1	1.21	0.0561	0.0	1.9	0.0490	6/7/2022	6:55:45 AM
7	0.0100	1	0.255	0.0106	0.0	-1.6	0.0102	6/7/2022	6:57:13 AM
8	0.00	1	5.05e-3	1.46e-3			3.77e-5	6/7/2022	6:58:39 AM

Figure : 1 (Cyanide)



Area = 24.7 * Conc + 4.16e-3
Conc = 0.0405 * Area - 1.67e-4
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Historical Data Summary Report

For Batch 630539

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198813-E-10-A	MW-7A	335.4	Cyanide, Total	Total/NA	mg/L	5	1.0	ND	☐	0 - 0.021	☐	0 - 0.013
480-198815-E-2-A	RE-7	335.4	Cyanide, Total	Total/NA	mg/L	3	1.0	ND	☐	0 - 0	☐	0 - 0
480-198816-K-1-A	MW-1S	335.4	Cyanide, Total	Total/NA	mg/L	1	1.0	ND	☐	0 - 0	☐	0 - 0
480-198816-K-5-A	MW-12S	335.4	Cyanide, Total	Total/NA	mg/L	1	1.0	ND	☐	0 - 0	☐	0 - 0

630516

Analyst: EA Date: 6-17-22
TALS Batch #:

Eurofins Buffalo
Cyanide Micro-Distillation Logbook Logbook # A22-16

Job #	Sample I.D.	Dist. Flask	Sample Volume (mL)	Soil Weight (g)	Spike Volume	If Spiked Please Check:	Comments
mb		1	6ml	.5865 EA			
lcs	.400	2	"	.5478	6 ml		
lcs	.250	3			6 ml		
CCV1	1.00	4			6 ml		
198743	B-2	5					
"	B-2 du	6					
198813	E-10	7					
"	E-10-ms	8					
198815	E-1	9			60 ul		
"	E-2	10					
198816	K-1	11					
"	K-5	12					
198825	D-2	13					
"	D-3	14					
"	B-4	15					
"	B-9	16					
"	B-10	17					
"	B-12	18					
620-4903	L-4	19					
620-4938	L-1	20					
"	L-1 ms	21			60 ul		

Start Time: 10:30
End Time: 11:30

Cl₂ Check: KI
H₂S Check: KI

0.400 mg/L Complex CN LCS: 703454
0.250 mg/L Complex CN LCS: 703482
0.100 mg/L Free CN CCVL: 703570
10 ppm Complex CN MS: 703561
10 ppm Free CN MS:
ERA Soil Lot:

1.0 N NaOH: 6959622
7.11M H_2SO_4 / 0.79M $MgCl_2$: 702595
H_2NSO_3: 6976510
$NaCH_3COO$:
$ZnCH_3COO$:

SimpleDist Block C : Set Temp. (°C): 135 Measured Start Temp. (°C): 135.9 Measured End Temp. (°C):

Reviewed By: EA Date: 6-17-22

629188
629197
629212

Ammonia 350.1

Nitrogen 1000mg/L Std CAL	6854843	Expires 07/31/23
Ammonia as N 1000mg/L Std CCV/LCS/ICV	6258171	Expires 11/03/22
Matrix Spike Int Std	7024235	Expires 06/15/22
Sodium Nitroferricyanide	7020715	Expires 07/03/22
Alkaline Phenol	7017208	Expires 06/09/22
5% EDTA Buffer	7020962	Expires 06/17/22
Sulfuric Acid Carrier	7024233	Expires 06/09/22
Sodium Hypochlorite	7024234	Expires 06/09/22
NH3 CCV/ICV 1.0ppm Std	7024236	Expires 06/09/22

ICV = 1.0ppm
LCS/CCV = 1.0ppm
MS/MSD = 0.2ppm

Distilled LCS/CCV = 1.0ppm
Distilled MS/MSD = 0.5ppm

Residual Chlorine check of samples GT

Author: BufLachat

Date : 6/8/2022

Original Run Filename: OM_6-8-2022_08-46-15AM.OMN Created: 6/8/2022 8:46:15 AM
Original Run Author's Signature: [BufLachat]
Current Run Filename: OM_6-8-2022_08-46-15AM.OMN Last Modified: 6/8/2022 9:29:05 AM
Current Run Author's Signature: [BufLachat]
Description: Default New Run

629188

Sample	Rep.	Cup No.	Channel 1 Ammonia as N Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time	Description
CCV	1	S10	1.04	9.87	0.808	6/8/2022@8:47:05 AM	
	Known Conc:		1.00				
	Calibration:		Table/Fig. : 1				
CCB	1	S11	-3.81e-3	0.0600	4.75e-3	6/8/2022@8:48:11 AM	
	Known Conc:		0.00				
MB	1	S11	-5.53e-3	0.0438	3.52e-3	6/8/2022@8:49:18 AM	
	Known Conc:		0.00				
LCS	1	S10	1.03	9.78	0.801	6/8/2022@8:50:24 AM	
	Known Conc:		1.00				
mb 480-629061/1-a	1	1	0.0116	0.205	0.0166	6/8/2022@8:51:30 AM	
480-198521-b-6-e^25	1	2	1.54	14.6	1.20	6/8/2022@8:52:37 AM	
Zero => 5ml 480-198568-b-13-a^25	1	3	1.40	13.3	1.09	6/8/2022@8:53:44 AM	
480-198719-d-1	1	4	-0.0226	-0.117	-0.0106	6/8/2022@8:54:50 AM	
MS 480-198719-d-1	1	5	0.140	1.42	0.111	6/8/2022@8:55:56 AM	
480-198720-c-1	1	6	2.40e-3	0.118	8.74e-3	6/8/2022@8:57:03 AM	
480-198720-c-2	1	7	1.03e-3	0.106	7.22e-3	6/8/2022@8:58:09 AM	
480-198720-c-3	1	8	2.30e-3	0.117	8.12e-3	6/8/2022@8:59:15 AM	
CCV	1	S10	1.03	9.75	0.799	6/8/2022@9:00:21 AM	
	Known Conc:		1.00				
CCB	1	S11	-5.41e-3	0.0449	3.88e-3	6/8/2022@9:01:28 AM	
	Known Conc:		0.00				
480-198720-c-4	1	9	3.92e-3	0.133	9.44e-3	6/8/2022@9:02:34 AM	
DU 480-198720-c-4	1	10	1.77e-3	0.113	7.39e-3	6/8/2022@9:03:39 AM	
MS 480-198720-c-4	1	11	0.193	1.91	0.151	6/8/2022@9:04:45 AM	
480-198723-c-1	1	12	-0.0284	-0.172	-0.0134	6/8/2022@9:05:51 AM	
480-198727-c-1	1	13	-0.0167	-0.0612	-4.24e-3	6/8/2022@9:06:56 AM	
480-198727-c-2	1	14	-3.77e-3	0.0604	-2.62e-3	6/8/2022@9:08:02 AM	
480-198727-c-3	1	15	-0.0340	-0.224	-0.0176	6/8/2022@9:09:07 AM	
480-198727-c-4	1	16	-0.0169	-0.0632	-5.27e-3	6/8/2022@9:10:14 AM	
480-198727-c-5	1	17	-0.0226	-0.117	-0.0100	6/8/2022@9:11:20 AM	
480-198727-c-6	1	18	-0.0291	-0.178	-0.0145	6/8/2022@9:12:27 AM	
CCV	1	S10	1.02	9.73	0.801	6/8/2022@9:13:33 AM	
	Known Conc:		1.00				
CCB	1	S11	-4.25e-3	0.0559	4.32e-3	6/8/2022@9:14:39 AM	
	Known Conc:		0.00				
MB	1	S11	-4.12e-3	0.0571	4.20e-3	6/8/2022@9:15:46 AM	
	Known Conc:		0.00				
LCS	1	S10	1.03	9.76	0.801	6/8/2022@9:16:51 AM	
	Known Conc:		1.00				
480-198735-a-1	1	19	7.64	71.9	5.48	6/8/2022@9:17:58 AM	
480-198736-b-1	1	20	2.28	21.6	1.66	6/8/2022@9:19:04 AM	
480-198738-d-1	1	21	0.526	5.05	0.407	6/8/2022@9:20:10 AM	
DU 480-198738-d-1	1	22	0.528	5.06	0.409	6/8/2022@9:21:17 AM	
MS 480-198738-d-1	1	23	0.723	6.90	0.558	6/8/2022@9:22:23 AM	
240-167703-h-1	1	24	0.0642	0.699	0.0557	6/8/2022@9:23:29 AM	
240-167703-h-2	1	25	0.0645	0.703	0.0538	6/8/2022@9:24:34 AM	
240-167703-h-3	1	26	8.02e-3	0.171	0.0106	6/8/2022@9:25:40 AM	
CCV	1	S10	1.03	9.81	0.748	6/8/2022@9:26:46 AM	
	Known Conc:		1.00				

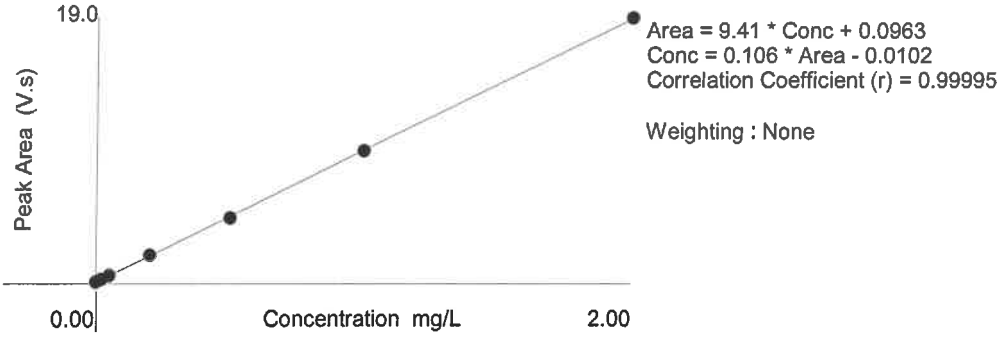
Author: BufLachat

Date : 6/8/2022

Table : 1 (Ammonia as N)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	2.00	1	19.0	1.54	0.0	-0.3	2.01	5/23/2022	8:07:53 AM
2	1.00	1	9.45	0.769	0.0	0.6	0.994	5/23/2022	8:08:44 AM
3	0.500	1	4.67	0.382	0.0	2.7	0.486	5/23/2022	8:09:35 AM
4	0.200	1	2.02	0.165	0.0	-2.3	0.205	5/23/2022	8:10:27 AM
5	0.0500	1	0.598	0.0469	0.0	-5.6	0.0534	5/23/2022	8:11:18 AM
6	0.0200	1	0.302	0.0246	0.0	-6.3	0.0219	5/23/2022	8:12:10 AM
7	0.00	1	0.130	0.0112			3.63e-3	5/23/2022	8:13:01 AM

Figure : 1 (Ammonia as N)



Author: BufLachat

Date : 6/8/2022

Original Run Filename: OM_6-8-2022_09-31-31AM.OMN Created: 6/8/2022 9:31:31 AM
Original Run Author's Signature: [BufLachat]
Current Run Filename: OM_6-8-2022_09-31-31AM.OMN Last Modified: 6/8/2022 10:01:41 AM
Current Run Author's Signature: [BufLachat]
Description: Default New Run

629197

Sample	Rep.	Cup No.	Channel 1 Ammonia as N Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time	Description
CCV	1	S10	1.04	9.87	0.808	6/8/2022@9:32:21 AM	
	Known Conc:		1.00				
CCV	1	S10	1.04	9.87	0.808	6/8/2022@9:33:27 AM	
	Known Conc:		1.00				
	Calibration:		Table/Fig. : 1				
CCB	1	S11	-2.96e-3	0.0680	5.33e-3	6/8/2022@9:34:33 AM	
	Known Conc:		0.00				
MB	1	S11	-2.98e-3	0.0678	4.81e-3	6/8/2022@9:35:40 AM	
	Known Conc:		0.00				
LCS	1	S10	1.03	9.81	0.808	6/8/2022@9:36:45 AM	
	Known Conc:		1.00				
480-198735-a-1^10	1	19	1.15	10.9	0.896	6/8/2022@9:37:52 AM	
480-198736-b-1^2	1	20	1.44	13.6	1.10	6/8/2022@9:38:58 AM	
480-198738-d-1	1	21	0.531	5.09	0.413	6/8/2022@9:40:04 AM	
DU 480-198738-d-1	1	22	0.530	5.08	0.412	6/8/2022@9:41:11 AM	
MS 480-198738-d-1	1	23	0.725	6.92	0.561	6/8/2022@9:42:17 AM	
240-167703-h-1	1	24	0.0651	0.708	0.0563	6/8/2022@9:43:23 AM	
240-167703-h-2	1	25	0.0601	0.661	0.0528	6/8/2022@9:44:29 AM	
240-167703-h-3	1	26	9.39e-3	0.184	0.0127	6/8/2022@9:45:34 AM	
CCV	1	S10	1.03	9.81	0.804	6/8/2022@9:46:40 AM	
	Known Conc:		1.00				
CCB	1	S11	-4.26e-3	0.0557	5.01e-3	6/8/2022@9:47:47 AM	
	Known Conc:		0.00				
240-167703-h-4	1	27	-0.0180	-0.0737	-5.39e-3	6/8/2022@9:48:52 AM	
240-167703-y-5	1	28	-0.0257	-0.145	-0.0162	6/8/2022@9:49:58 AM	
MS 240-167703-y-5	1	29	0.0847	0.893	0.0691	6/8/2022@9:51:03 AM	
MSD 240-167703-y-5	1	30	-0.0285	-0.172	-0.0207	6/8/2022@9:52:08 AM	
240-167703-h-6	1	31	5.35e-3	0.146	0.0104	6/8/2022@9:53:15 AM	
240-167703-h-8	1	32	-0.0366	-0.249	-0.0221	6/8/2022@9:54:22 AM	
240-167703-h-9	1	33	0.0112	0.201	0.0150	6/8/2022@9:55:29 AM	
240-167703-h-10	1	34	0.186	1.85	0.144	6/8/2022@9:56:35 AM	
240-167703-h-11	1	35	0.0577	0.639	0.0474	6/8/2022@9:57:42 AM	
CCV	1	S10	1.04	9.84	0.807	6/8/2022@9:58:48 AM	
	Known Conc:		1.00				
CCB	1	S11	-2.35e-3	0.0737	5.21e-3	6/8/2022@9:59:54 AM	
	Known Conc:		0.00				

~~10ml~~ ⇒5ml
~~7.5ml~~ ⇒5ml

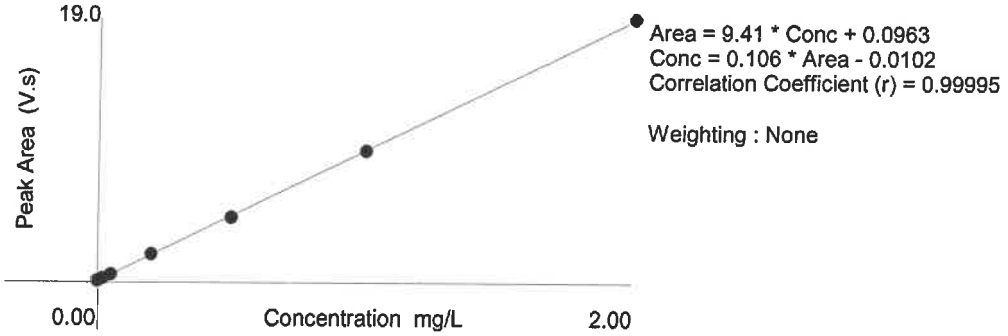
Table : 1 (Ammonia as N)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	2.00	1	19.0	1.54	0.0	-0.3	2.01	5/23/2022	8:07:53 AM
2	1.00	1	9.45	0.769	0.0	0.6	0.994	5/23/2022	8:08:44 AM
3	0.500	1	4.67	0.382	0.0	2.7	0.486	5/23/2022	8:09:35 AM
4	0.200	1	2.02	0.165	0.0	-2.3	0.205	5/23/2022	8:10:27 AM
5	0.0500	1	0.598	0.0469	0.0	-5.6	0.0534	5/23/2022	8:11:18 AM
6	0.0200	1	0.302	0.0246	0.0	-6.3	0.0219	5/23/2022	8:12:10 AM
7	0.00	1	0.130	0.0112			3.63e-3	5/23/2022	8:13:01 AM

Author: BufLachat

Date : 6/8/2022

Figure : 1 (Ammonia as N)



Author: BufLachat

Date : 6/8/2022

Original Run Filename: OM_6-8-2022_10-10-26AM.OMN Created: 6/8/2022 10:10:26 AM
Original Run Author's Signature: [BufLachat]
Current Run Filename: OM_6-8-2022_10-10-26AM.OMN Last Modified: 6/8/2022 10:22:06 AM
Current Run Author's Signature: [BufLachat]
Description: Default New Run

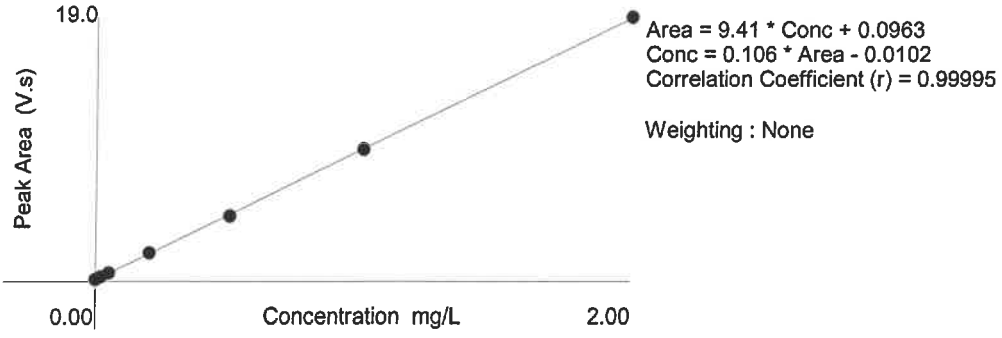
629212

Sample	Rep.	Cup No.	Channel 1 Ammonia as N Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time	Description
CCV	1	S10	1.04	9.92	0.814	6/8/2022@10:11:16 AM	
	Known Conc:		1.00				
	Calibration:		Table/Fig. : 1				
CCB	1	S11	5.75e-4	0.101	8.00e-3	6/8/2022@10:12:22 AM	
	Known Conc:		0.00				
MB	1	S11	3.78e-5	0.0962	8.37e-3	6/8/2022@10:13:28 AM	
	Known Conc:		0.00				
LCS	1	S10	1.02	9.68	0.798	6/8/2022@10:14:34 AM	
	Known Conc:		1.00				
240-167703-y-5	1	1	-0.0369	-0.251	-0.0275	6/8/2022@10:15:41 AM	
MS 240-167703-y-5	1	2	0.0606	0.666	0.0445	6/8/2022@10:16:48 AM	
MSD240-167703-y-5	1	3	0.0713	0.767	0.0522	6/8/2022@10:17:54 AM	
CCV	1	S10	0.996	9.46	0.777	6/8/2022@10:19:00 AM	
	Known Conc:		1.00				
CCB	1	S11	-1.91e-4	0.0941	7.74e-3	6/8/2022@10:20:07 AM	
	Known Conc:		0.00				

Table : 1 (Ammonia as N)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	2.00	1	19.0	1.54	0.0	-0.3	2.01	5/23/2022	8:07:53 AM
2	1.00	1	9.45	0.769	0.0	0.6	0.994	5/23/2022	8:08:44 AM
3	0.500	1	4.67	0.382	0.0	2.7	0.486	5/23/2022	8:09:35 AM
4	0.200	1	2.02	0.165	0.0	-2.3	0.205	5/23/2022	8:10:27 AM
5	0.0500	1	0.598	0.0469	0.0	-5.6	0.0534	5/23/2022	8:11:18 AM
6	0.0200	1	0.302	0.0246	0.0	-6.3	0.0219	5/23/2022	8:12:10 AM
7	0.00	1	0.130	0.0112			3.63e-3	5/23/2022	8:13:01 AM

Figure : 1 (Ammonia as N)



Author: BufLachat

Date : 5/23/2022

Original Run Filename: OM_5-23-2022_08-07-04AM.OMN Created: 5/23/2022 8:07:04 AM
Original Run Author's Signature: [BufLachat]
Current Run Filename: OM_5-23-2022_08-07-04AM.OMN Last Modified: 5/23/2022 8:16:30 AM
Current Run Author's Signature: [BufLachat]
Description: Default New Run

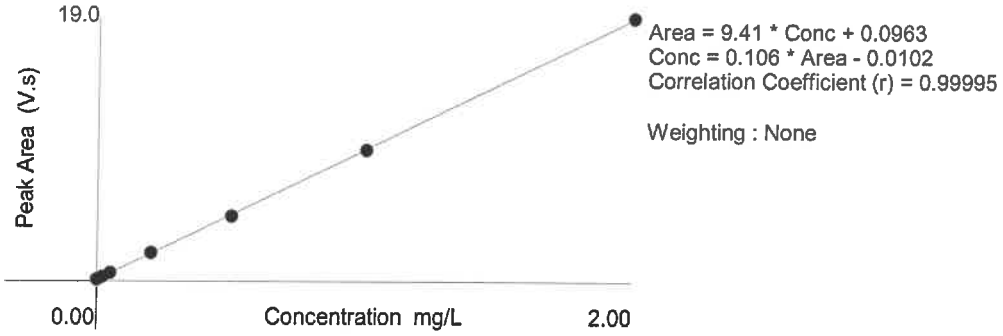
Sample	Rep.	Cup No.	Channel 1 Ammonia as N Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time	Description
2.0	1	S1	2.00	19.0	1.54	5/23/2022@8:07:53 AM	
1.0	1	S2	1.00	9.45	0.769	5/23/2022@8:08:44 AM	
0.5	1	S3	0.500	4.67	0.382	5/23/2022@8:09:35 AM	
0.2	1	S4	0.200	2.02	0.165	5/23/2022@8:10:27 AM	
0.05	1	S5	0.0500	0.598	0.0469	5/23/2022@8:11:18 AM	
0.02	1	S6	0.0200	0.302	0.0246	5/23/2022@8:12:10 AM	
0.0	1	S11	0.00	0.130	0.0112	5/23/2022@8:13:01 AM	
ICV	1	S10	1.00	9.50	0.774	5/23/2022@8:13:53 AM	
Calibration:			Table/Fig. : 1				
ICB	1	S11	8.18e-3	0.173	0.0134	5/23/2022@8:14:44 AM	

100% recovery

Table : 1 (Ammonia as N)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	2.00	1	19.0	1.54	0.0	-0.3	2.01	5/23/2022	8:07:53 AM
2	1.00	1	9.45	0.769	0.0	0.6	0.994	5/23/2022	8:08:44 AM
3	0.500	1	4.67	0.382	0.0	2.7	0.486	5/23/2022	8:09:35 AM
4	0.200	1	2.02	0.165	0.0	-2.3	0.205	5/23/2022	8:10:27 AM
5	0.0500	1	0.598	0.0469	0.0	-5.6	0.0534	5/23/2022	8:11:18 AM
6	0.0200	1	0.302	0.0246	0.0	-6.3	0.0219	5/23/2022	8:12:10 AM
7	0.00	1	0.130	0.0112			3.63e-3	5/23/2022	8:13:01 AM

Figure : 1 (Ammonia as N)



Historical Data Summary Report

For Batch 629188

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198719-D-1	MW-OL	350.1	Ammonia as N	Total/NA	mg/L	2	1.0	ND	☐	0 - 0	☐	0 - 0
480-198720-C-1	CD-1	350.1	Ammonia	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.058	☐	0 - 0.058
480-198720-C-2	CD-1RA	350.1	Ammonia	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.032	☐	0 - 0.035
480-198720-C-3	MW-1B	350.1	Ammonia	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.237	☐	0 - 0.252
480-198723-C-1	MSW Phase 4 Outfa	350.1	Ammonia	Total/NA	mg/L	2	1.0	ND	☐	0 - 0	☐	0 - 0
480-198727-C-1	MSW Cell 1A/B/C/D	350.1	Ammonia as N	Total/NA	mg/L	6	1.0	ND	☐	0 - 0.082	☐	0 - 0.077
480-198727-C-2	MSW Phase 2 Outfa	350.1	Ammonia as N	Total/NA	mg/L	6	1.0	ND	☐	0 - 0	☐	0 - 0
480-198727-C-3	MSW Phase 3 Outfa	350.1	Ammonia as N	Total/NA	mg/L	6	1.0	ND	☐	0 - 0	☐	0 - 0
480-198727-C-4	MW-PB	350.1	Ammonia as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.027	☐	0 - 0.023
480-198727-C-5	MW-PI	350.1	Ammonia as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.093	☐	0 - 0.1
480-198727-C-6	PRF Outfall	350.1	Ammonia as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0

Historical Data Summary Report

For Batch 629197

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198735-A-1	^10EAST001-06062022	350.1	Ammonia	Total/NA	mg/L	7	10.0	11.5	☐	4.712 - 59.316	☑	15.2 - 53.4 OK
480-198738-D-1	Cell A #11	350.1	Ammonia	Total/NA	mg/L	8	1.0	0.53	☐	0.232 - 1.228	☐	0.448 - 1.32

629604

Ammonia 350.1

Nitrogen 1000mg/L Std CAL	6854843	Expires 07/31/23
Ammonia as N 1000mg/L Std CCV/LCS/ICV	6258171	Expires 11/03/22
Matrix Spike Int Std	7024235	Expires 06/15/22
Sodium Nitroferricyanide	7020715	Expires 07/03/22
Alkaline Phenol	7024310	Expires 06/15/22
5% EDTA Buffer	7020962	Expires 06/17/22
Sulfuric Acid Carrier	7028547	Expires 06/11/22
Sodium Hypochlorite	7028549	Expires 06/11/22
NH3 CCV/ICV 1.0ppm Std	7028556	Expires 06/11/22

ICV = 1.0ppm
LCS/CCV = 1.0ppm
MS/MSD = 0.2ppm

Distilled LCS/CCV = 1.0ppm
Distilled MS/MSD = 0.5ppm

Residual Chlorine check of samples CT

Author: BufLachat

Date : 6/10/2022

Original Run Filename: OM_6-10-2022_08-49-53AM.OMN Created: 6/10/2022 8:49:53 AM
Original Run Author's Signature: [BufLachat]
Current Run Filename: OM_6-10-2022_08-49-53AM.OMN Last Modified: 6/10/2022 10:23:55 AM
Current Run Author's Signature: [BufLachat]
Description: Default New Run

629604

Sample	Rep.	Cup No.	Channel 1 Ammonia as N Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time	Description
CCV	1	S10	0.995	9.45	0.771	6/10/2022@8:50:43 AM	
	Known Conc:		1.00				
	Calibration:		Table/Fig. : 1				
CCB	1	S11	-8.33e-4	0.0880	6.63e-3	6/10/2022@8:51:49 AM	
	Known Conc:		0.00				
MB	1	S11	-1.76e-3	0.0793	6.84e-3	6/10/2022@8:52:55 AM	
	Known Conc:		0.00				
LCS	1	S10	0.994	9.44	0.769	6/10/2022@8:54:01 AM	
	Known Conc:		1.00				
mb 480-629415/1-a	1	1	9.81e-3	0.188	0.0147	6/10/2022@8:55:08 AM	
480-198744-a-1-d^25	1	2	1.22	11.5	0.940	6/10/2022@8:56:15 AM	
620-4922-f-1-a	1	3	0.0637	0.695	0.0476	6/10/2022@8:57:22 AM	
480-198813-c-1	1	4	0.0206	0.290	0.0218	6/10/2022@8:58:28 AM	
MS 480-198813-c-1	1	5	0.215	2.11	0.169	6/10/2022@8:59:35 AM	
480-198813-c-2^5	1	6	1.56	14.8	1.20	6/10/2022@9:00:41 AM	
480-198813-c-3^5	1	7	0.149	1.50	0.121	6/10/2022@9:01:47 AM	
480-198813-c-4	1	8	0.0654	0.711	0.0559	6/10/2022@9:02:53 AM	
CCV	1	S10	1.00	9.52	0.776	6/10/2022@9:03:59 AM	
	Known Conc:		1.00				
CCB	1	S11	-3.56e-4	0.0925	7.23e-3	6/10/2022@9:05:05 AM	
	Known Conc:		0.00				
480-198813-c-5	1	9	-4.67e-3	0.0519	4.76e-3	6/10/2022@9:06:12 AM	
DU 480-198813-c-5	1	10	-4.42e-3	0.0542	4.62e-3	6/10/2022@9:07:17 AM	
MS 480-198813-c-5	1	11	0.216	2.13	0.173	6/10/2022@9:08:23 AM	
480-198813-c-6	1	12	-5.90e-3	0.0403	3.39e-3	6/10/2022@9:09:29 AM	
480-198813-c-7	1	13	0.0113	0.203	0.0148	6/10/2022@9:10:34 AM	
480-198813-c-8	1	14	0.186	1.85	0.146	6/10/2022@9:11:39 AM	
480-198813-c-9	1	15	-5.41e-3	0.0449	3.66e-3	6/10/2022@9:12:45 AM	
480-198813-c-10	1	16	0.0998	1.03	0.0805	6/10/2022@9:13:52 AM	
480-198815-c-2	1	17	7.37e-3	0.165	0.0120	6/10/2022@9:14:58 AM	
480-198815-c-1	1	18	-8.24e-3	0.0183	1.84e-3	6/10/2022@9:16:05 AM	
CCV	1	S10	1.00	9.50	0.773	6/10/2022@9:17:11 AM	
	Known Conc:		1.00				
CCB	1	S11	-9.66e-4	0.0868	6.67e-3	6/10/2022@9:18:17 AM	
	Known Conc:		0.00				
MB	1	S11	-1.47e-3	0.0820	6.57e-3	6/10/2022@9:19:23 AM	
	Known Conc:		0.00				
LCS	1	S10	1.00	9.52	0.774	6/10/2022@9:20:30 AM	
	Known Conc:		1.00				
480-198820-f-1	1	19	4.64	43.8	3.46	6/10/2022@9:21:36 AM	
MS 480-198820-f-1	1	20	4.82	45.4	3.58	6/10/2022@9:22:42 AM	
480-198825-b-1	1	21	2.39	22.5	1.81	6/10/2022@9:23:48 AM	
480-198825-b-2	1	22	1.03	9.80	0.793	6/10/2022@9:24:55 AM	
480-198826-c-2	1	23	0.0260	0.341	0.0262	6/10/2022@9:26:01 AM	
480-198825-b-3	1	24	13.6	128	7.38	6/10/2022@9:27:07 AM	
480-198825-b-5	1	25	14.2	134	7.46	6/10/2022@9:28:13 AM	
480-198825-b-7	1	26	-5.52e-3	0.0439	5.50e-3	6/10/2022@9:29:18 AM	
CCV	1	S10	1.01	9.58	0.780	6/10/2022@9:30:24 AM	
	Known Conc:		1.00				
CCB	1	S11	-2.82e-4	0.0932	7.85e-3	6/10/2022@9:31:31 AM	
	Known Conc:		0.00				
480-198825-b-8	1	27	10.5	98.8	6.84	6/10/2022@9:32:36 AM	
DU 480-198825-b-8	1	28	10.5	98.9	6.84	6/10/2022@9:33:42 AM	
MS 480-198825-b-8	1	29	10.6	99.8	6.88	6/10/2022@9:34:47 AM	
480-198825-b-11	1	30	11.5	109	7.08	6/10/2022@9:35:53 AM	
480-198840-b-1	1	31	0.126	1.29	0.101	6/10/2022@9:36:59 AM	
480-198840-b-2	1	32	-7.19e-3	0.0282	8.27e-3	6/10/2022@9:38:06 AM	
480-198840-b-3	1	33	-2.69e-4	0.0933	8.23e-3	6/10/2022@9:39:13 AM	

200ml → 5ml

500ul⇒5ml	480-198840-b-4	1	34	-8.52e-3	0.0157	1.86e-3	6/10/2022@9:40:19 AM	
	480-198840-b-5	1	35	-0.0143	-0.0387	-2.08e-3	6/10/2022@9:41:26 AM	
	480-198840-b-6^10	1	36	1.09	10.4	0.842	6/10/2022@9:42:32 AM	
	CCV	1	S10	1.00	9.53	0.774	6/10/2022@9:43:38 AM	
		Known Conc:		1.00				
	CCB	1	S11	-4.49e-4	0.0916	7.44e-3	6/10/2022@9:44:44 AM	
		Known Conc:		0.00				
	MB	1	S11	-1.35e-3	0.0831	6.72e-3	6/10/2022@9:45:51 AM	
		Known Conc:		0.00				
	LCS	1	S10	1.00	9.53	0.776	6/10/2022@9:46:56 AM	
		Known Conc:		1.00				
	480-198840-b-7	1	37	0.0128	0.216	0.0173	6/10/2022@9:48:03 AM	
	MS 480-198840-b-7	1	38	0.196	1.94	0.157	6/10/2022@9:49:09 AM	
	480-198840-b-8	1	39	0.0156	0.243	0.0211	6/10/2022@9:50:15 AM	
2.5ml⇒5 ml	480-198840-b-9^2	1	40	4.31	40.7	3.24	6/10/2022@9:51:21 AM	
	480-198840-b-10	1	41	0.122	1.24	0.0981	6/10/2022@9:52:26 AM	
	480-198843-c-1	1	42	-0.0172	-0.0664	-4.71e-3	6/10/2022@9:53:32 AM	
	480-198843-c-2	1	43	-0.0190	-0.0828	-5.91e-3	6/10/2022@9:54:37 AM	
	480-198843-c-3	1	44	-0.0122	-0.0190	-2.01e-3	6/10/2022@9:55:43 AM	
	CCV	1	S10	1.00	9.53	0.774	6/10/2022@9:56:49 AM	
		Known Conc:		1.00				
	CCB	1	S11	1.86e-3	0.113	7.70e-3	6/10/2022@9:57:55 AM	
		Known Conc:		0.00				
	480-198843-c-4	1	45	-0.0139	-0.0350	-3.02e-3	6/10/2022@9:59:00 AM	
	480-198843-c-5	1	46	-0.0147	-0.0426	-2.82e-3	6/10/2022@10:00:07 AM	
	480-198843-c-6	1	47	-0.0117	-0.0143	-8.83e-4	6/10/2022@10:01:14 AM	
	DU 480-198843-c-6	1	48	-0.0159	-0.0538	-2.66e-3	6/10/2022@10:02:21 AM	
	MS 480-198843-c-6	1	49	0.189	1.87	0.153	6/10/2022@10:03:27 AM	
	480-198813-c-3	1	50	0.534	5.12	0.399	6/10/2022@10:04:33 AM	
	480-198820-f-1^5	1	51	1.06	10.0	0.822	6/10/2022@10:05:40 AM	
	480-198825-b-3^20	1	52	1.42	13.4	1.09	6/10/2022@10:06:46 AM	
	480-198825-b-5^20	1	53	1.52	14.4	1.17	6/10/2022@10:07:52 AM	
250ul⇒5ml	480-198825-b-11^20	1	54	0.854	8.13	0.661	6/10/2022@10:08:58 AM	
	CCV	1	S10	1.01	9.58	0.778	6/10/2022@10:10:04 AM	
		Known Conc:		1.00				
	CCB	1	S11	-6.31e-4	0.0899	6.70e-3	6/10/2022@10:11:10 AM	
		Known Conc:		0.00				
	MB	1	S11	-1.97e-3	0.0773	6.53e-3	6/10/2022@10:12:16 AM	
		Known Conc:		0.00				
	LCS	1	S10	1.00	9.55	0.777	6/10/2022@10:13:23 AM	
		Known Conc:		1.00				
	480-198825-b-1^2	1	55	1.32	12.6	1.03	6/10/2022@10:14:28 AM	
2.5ml⇒5ml	DU 480-198825-b-1^2	1	56	1.37	13.0	1.04	6/10/2022@10:15:34 AM	
	MS 480-198825-b-1^2	1	57	1.49	14.1	1.13	6/10/2022@10:16:40 AM	
250ul⇒5ml	480-198825-b-8^20	1	58	0.728	6.94	0.566	6/10/2022@10:17:45 AM	
	480-198840-b-9^5	1	59	0.964	9.17	0.749	6/10/2022@10:18:51 AM	
1 ml⇒5ml	480-198840-b-9^10	1	60	0.500	4.80	0.390	6/10/2022@10:19:56 AM	
500ul⇒5ml	CCV	1	S10	1.01	9.56	0.778	6/10/2022@10:21:02 AM	
		Known Conc:		1.00				
	CCB	1	S11	2.57e-5	0.0961	7.36e-3	6/10/2022@10:22:08 AM	
		Known Conc:		0.00				

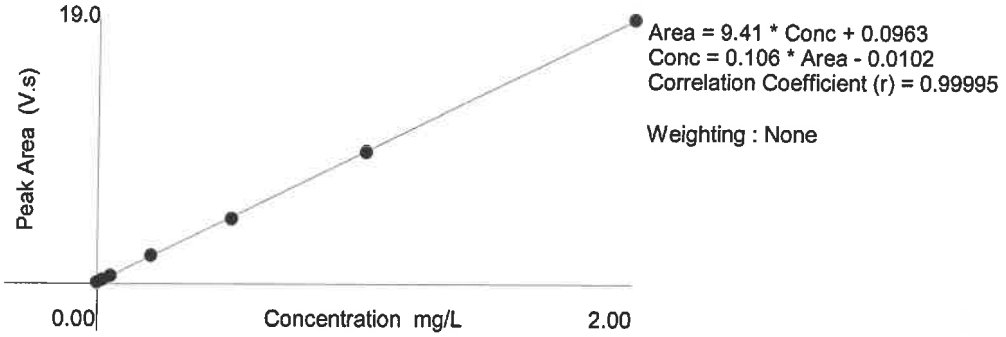
Table : 1 (Ammonia as N)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	2.00	1	19.0	1.54	0.0	-0.3	2.01	5/23/2022	8:07:53 AM
2	1.00	1	9.45	0.769	0.0	0.6	0.994	5/23/2022	8:08:44 AM
3	0.500	1	4.67	0.382	0.0	2.7	0.486	5/23/2022	8:09:35 AM
4	0.200	1	2.02	0.165	0.0	-2.3	0.205	5/23/2022	8:10:27 AM
5	0.0500	1	0.598	0.0469	0.0	-5.6	0.0534	5/23/2022	8:11:18 AM
6	0.0200	1	0.302	0.0246	0.0	-6.3	0.0219	5/23/2022	8:12:10 AM
7	0.00	1	0.130	0.0112			3.63e-3	5/23/2022	8:13:01 AM

Author: BufLachat

Date : 6/10/2022

Figure : 1 (Ammonia as N)



Author: BufLachat

Date : 5/23/2022

Original Run Filename: OM_5-23-2022_08-07-04AM.OMN Created: 5/23/2022 8:07:04 AM
Original Run Author's Signature: [BufLachat]
Current Run Filename: OM_5-23-2022_08-07-04AM.OMN Last Modified: 5/23/2022 8:16:30 AM
Current Run Author's Signature: [BufLachat]
Description: Default New Run

629604

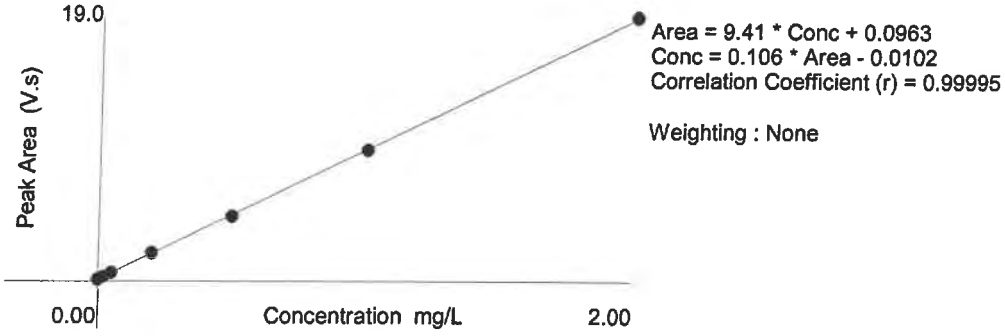
Sample	Rep.	Cup No.	Channel 1 Ammonia as N Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time	Description
2.0	1	S1	2.00	19.0	1.54	5/23/2022@8:07:53 AM	
1.0	1	S2	1.00	9.45	0.769	5/23/2022@8:08:44 AM	
0.5	1	S3	0.500	4.67	0.382	5/23/2022@8:09:35 AM	
0.2	1	S4	0.200	2.02	0.165	5/23/2022@8:10:27 AM	
0.05	1	S5	0.0500	0.598	0.0469	5/23/2022@8:11:18 AM	
0.02	1	S6	0.0200	0.302	0.0246	5/23/2022@8:12:10 AM	
0.0	1	S11	0.00	0.130	0.0112	5/23/2022@8:13:01 AM	
ICV	1	S10	1.00	9.50	0.774	5/23/2022@8:13:53 AM	
Calibration:			Table/Fig. : 1				
ICB	1	S11	8.18e-3	0.173	0.0134	5/23/2022@8:14:44 AM	

100% recovery

Table : 1 (Ammonia as N)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	2.00	1	19.0	1.54	0.0	-0.3	2.01	5/23/2022	8:07:53 AM
2	1.00	1	9.45	0.769	0.0	0.6	0.994	5/23/2022	8:08:44 AM
3	0.500	1	4.67	0.382	0.0	2.7	0.486	5/23/2022	8:09:35 AM
4	0.200	1	2.02	0.165	0.0	-2.3	0.205	5/23/2022	8:10:27 AM
5	0.0500	1	0.598	0.0469	0.0	-5.6	0.0534	5/23/2022	8:11:18 AM
6	0.0200	1	0.302	0.0246	0.0	-6.3	0.0219	5/23/2022	8:12:10 AM
7	0.00	1	0.130	0.0112			3.63e-3	5/23/2022	8:13:01 AM

Figure : 1 (Ammonia as N)



Historical Data Summary Report

For Batch 629604

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits	
480-198813-C-1	MW-1A	350.1	Ammonia	Total/NA	mg/L	8	1.0	0.021	☐	0 - 1.12	☐	0 - 1.2	
480-198813-C-10	MW-7A	350.1	Ammonia	Total/NA	mg/L	8	1.0	0.10	☐	0 - 0.158	☐	0 - 0.144	
480-198813-C-2 ^5	MW-2A	350.1	Ammonia	Total/NA	mg/L	8	5.0	7.8	☐	0 - 12.462	☐	2.08 - 11.28	
480-198813-C-3	MW-2B	350.1	Ammonia	Total/NA	mg/L	8	1.0	0.53	☐	0 - 15.332	☐	0.352 - 11.28	
480-198813-C-4	MW-3A	350.1	Ammonia	Total/NA	mg/L	8	1.0	0.065	☑	0 - 0.037	☑	0 - 0.04	OK
480-198813-C-5	MW-3B	350.1	Ammonia	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.025	☐	0 - 0.026	
480-198813-C-6	MW-4A	350.1	Ammonia	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0	
480-198813-C-7	MW-5A	350.1	Ammonia	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0	
480-198813-C-8	MW-6A	350.1	Ammonia	Total/NA	mg/L	8	1.0	0.19	☐	0 - 2.247	☐	0 - 2.4	
480-198813-C-9	MW-6B	350.1	Ammonia	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.049	☐	0 - 0.053	
480-198815-C-1	DO-2	350.1	Ammonia	Total/NA	mg/L	6	1.0	ND	☐	0 - 0.039	☐	0 - 0.028	
480-198815-C-2	RE-7	350.1	Ammonia	Total/NA	mg/L	6	1.0	ND	☐	0 - 0.096	☐	0 - 0.09	
480-198826-C-2	Final Effluent	350.1	Ammonia	Total/NA	mg/L	8	1.0	0.026	☐	0 - 1.053	☑	0.058 - 0.924	OK
480-198840-B-1	DUP	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.0	0.13	☐	0 - 6.853	☐	0 - 7.32	
480-198840-B-10	MW-14C-U	350.1	Ammonia (as N)	Total/NA	mg/L as N	3	1.0	0.12	☐	0 - 0.359	☐	0.114 - 0.171	
480-198840-B-2	FIELD BLANK	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0.022	☐	0 - 0.024	
480-198840-B-3	MW-11CU	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0.066	☐	0 - 0.071	
480-198840-B-4	MW-12CU	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0	☐	0 - 0	
480-198840-B-5	MW-19S	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0	☐	0 - 0	
480-198840-B-6 ^10	MW-1C	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	10.0	10.9	☐	0 - 28.532	☐	3.2 - 23.64	
480-198840-B-7	MW-21SR	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0	☐	0 - 0	
480-198840-B-8	MW-2B	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0.168	☐	0 - 0.18	
480-198840-B-9 ^5	MW-4A	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	5.0	4.8	☐	0 - 6.805	☐	1.52 - 6.72	
480-198843-C-1	DUP	350.1	Ammonia (as N)	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0	
480-198843-C-2	MW-12S	350.1	Ammonia (as N)	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0	
480-198843-C-3	MW-13S	350.1	Ammonia (as N)	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0	
480-198843-C-4	MW-14S-R	350.1	Ammonia (as N)	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0	
480-198843-C-5	MW-15S	350.1	Ammonia (as N)	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0	
480-198843-C-6	MW-17S	350.1	Ammonia (as N)	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0	

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Solutions Used: Konelab AQUA20 & 20XT

TKN Reagent	I.D	Expires
Sodium Salicylate	6997014	15 June 2022
Sodium Hypochlorite	7013848	15 June 2022
Buffer	7013825	15 June 2022

Standards:

Name	ID	Expiration
Ammonia as N 1000ppm	6258170	11/03/2022
CCV (2.5ppm)	7030822	06/14/2022
Second Source Ammonia as N 1000 ppm (ICV)	6438487	08/31/2022
Total Kjeldahl Nitrogen 1000ppm:		
LCS (2.5ppm)		
MS (1.0ppm)	7020722	06/03/2024

TKN Curve Kone 1: 06-02-2022
Batch 628531
CURVE (5.0 ppm): 7017299
ICV (2.5 ppm): 7017300

TKN Curve Gallery 1: 11-22-2021
Batch 606076
CURVE (5.0 ppm): 6790643
ICV (2.5 ppm): 6791791

Laboratory
Analyzer User

629788

Date : 6/13/2022
Time : 10:31

Test : TKN
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
CCV TKN	2.712	6/13/2022 6:26		
CCB TKN	0.020	6/13/2022 6:26		
mb 480-629707/1-	0.079	6/13/2022 7:09	R	
lcs 480-629707/2	2.580	6/13/2022 7:09	R	
mb 480-629708/1-	0.145	6/13/2022 7:09	R	
CCV TKN	2.704	6/13/2022 7:11		
CCB TKN	0.030	6/13/2022 7:11		
620-4695-d-1-a	0.327	6/13/2022 7:48		
620-4695-d-1-b m	1.231	6/13/2022 7:48		
480-198495-d-2-b	0.241	6/13/2022 7:48		
480-198562-e-1-c	0.996	6/13/2022 7:48		
480-198562-e-3-c	1.846	6/13/2022 7:48		
180-138889-b-1-a	1.132	6/13/2022 7:48		
180-138889-b-2-a	1.124	6/13/2022 7:48		
CCV TKN	2.633	6/13/2022 7:57		
CCB TKN	0.005	6/13/2022 7:57		
180-138889-b-3-a	1.216	6/13/2022 7:57		
180-138977-d-1-a	1.302	6/13/2022 7:57		
480-198480-b-1-b	3.026	6/13/2022 7:57		
480-198480-b-5-b	3.575	6/13/2022 7:57		
480-198605-a-2-e	2.280	6/13/2022 7:57		
480-198557-b-1-a	0.656	6/13/2022 7:57		
480-198557-b-2-a	0.672	6/13/2022 7:57		
480-198557-b-3-a	0.526	6/13/2022 7:58		
CCV TKN	2.683	6/13/2022 8:06		
CCB TKN	-0.012	6/13/2022 8:06		
480-198557-b-3-b	1.326	6/13/2022 8:06		
480-198517-c-3-d	0.172	6/13/2022 8:06		
480-198517-c-3-e	1.147	6/13/2022 8:06		
480-198517-c-3-f	1.187	6/13/2022 8:07		
180-138886-d-1-a	1.715	6/13/2022 8:07		
180-138886-d-4-a	2.294	6/13/2022 8:07		
480-198720-c-1-a	0.616	6/13/2022 8:07		
480-198720-c-2-a	0.245	6/13/2022 8:07		
CCV TKN	2.662	6/13/2022 8:15		
CCB TKN	-0.035	6/13/2022 8:15		
480-198720-c-3-a	0.120	6/13/2022 8:15		
480-198720-c-4-a	0.470	6/13/2022 8:15		
480-198568-b-3-a	4.667	6/13/2022 8:15		
480-198568-b-6-a	0.330	6/13/2022 8:15		
CCV TKN	2.675	6/13/2022 8:18		
CCB TKN	0.077	6/13/2022 8:18		
CCV TKN	2.720	6/13/2022 9:10		
CCB TKN	0.018	6/13/2022 9:10		
CCV TKN	2.729	6/13/2022 10:12		
CCB TKN	-0.008	6/13/2022 10:12		
lcs 480-629708/2	5.272	6/13/2022 10:12	R	1+1.0
180-138772-h-1-a	5.399	6/13/2022 10:12	R	1+1.0
480-198480-b-4-b	6.473	6/13/2022 10:12	R	1+1.0
180-138886-d-2-a	8.302	6/13/2022 10:12	R	1+1.0
480-198497-d-3-b	84.917	6/13/2022 10:20	R	1+19.0
480-198497-d-3-c	80.227	6/13/2022 10:20	R	1+19.0
180-138886-d-3-a	38.666	6/13/2022 10:21	R	1+9.0

Laboratory
Analyzer User

Date : 6/13/2022
Time : 10:31

Test : TKN
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
480-198568-b-1-a	34.426	6/13/2022 10:21	R	1+9.0
480-198568-b-8-a	39.148	6/13/2022 10:21	R	1+9.0
480-198568-b-9-a	25.432	6/13/2022 10:21	R	1+9.0
CCV TKN	2.691	6/13/2022 10:28		
CCB TKN	-0.022	6/13/2022 10:28		
480-198568-b-10-	30.638	6/13/2022 10:28	R	1+9.0
198568-B-10 MS	32.490	6/13/2022 10:28	R	1+9.0
CCV TKN	2.738	6/13/2022 10:30		
CCB TKN	0.100	6/13/2022 10:30		

Historical Data Summary Report

For Batch 629788

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result		Fail	3-Sigma Limits	Fail	Client Limits	
480-198480-B-1-B	OUTFALL #005	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	3.0	2.5	☑	0.255 - 1.272	☑	0.4 - 1.2	629365
480-198480-B-4-B	OUTFALL #012	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	2.0	6.5	5.9	☑	0 - 2.133	☑	0.192 - 1.92	↓
480-198480-B-5-B	OUTFALL #013	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	3.6	5.8	☑	0.023 - 1.202	☑	0.264 - 1.176	
480-198497-D-3-B	96-148-2R	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	20.0	84.9		☑	46.392 - 63.258	☑	39.36 - 71.52	OK
480-198517-C-3-D	MW-HL	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	ND		☐	0 - 0.288	☐	0 - 0.24	
480-198557-B-1-A	OUTFALL 001	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	4	1.0	0.66		☐	0.29 - 0.89	☐	0.392 - 0.828	
480-198557-B-2-A	OUTFALL 002	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	4	1.0	0.67		☑	0.39 - 0.45	☑	0.328 - 0.516	OK
480-198557-B-3-A	OUTFALL 006	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	4	1.0	0.53		☐	0 - 0.56	☑	0 - 0.336	OK
480-198562-E-1-C	MH20_Comp	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	498		☐	171.509 - 538.491	☐	216 - 549.6	
480-198562-E-3-C	MH21_Comp	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	1850		☐	992.899 - 2534.601	☐	1136 - 2784	
480-198605-A-2-E	EFFLUENT	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	2.3		☐	0 - 10.74	☐	0.88 - 9	
480-198720-C-3-A	MW-1B	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	ND		☐	0 - 3.015	☐	0 - 3.12	

TestAmerica Buffalo

TOTAL KJELDAHL NITROGEN DIGESTION LOG – Method 351.2

Date Digested	Prep Analyst	Job #	Sample ID	Flask #	Dilution	Comments
6-12-22	EG	ICAL	5.0 PPM	1		+ 0.125 mL NH3 STD
		MB	BLANK	2		
		LCS	2.5 PPM	3		+ 0.0625 mL TKN STD
		198497	D-3	4	1x	
		〃	D-3dup	5	〃	
		620 46495	D-1	6		
		〃	D-1MS	7	〃	+0.025 mL TKN STD
		198495	D-2	8	500x	500ul→25ml
		198562	E-1	9	〃	〃
		〃	E-3	10	1000x	25ul→25ml
		180 138869	B-1	11	1x	
		〃	B-2	12	〃	
		〃	B-3	13	〃	
		180 138772	H-2	14	〃	
		180 138977	D-1	15	〃	
		198480	B-1	16	〃	
		〃	B-4	17	〃	
		〃	B-5	18	〃	
		198605	A-2	19	〃	
		198557	B-1	20	〃	
		〃	B-2	21	〃	
		〃	B-3	22	〃	
		〃	B-3MS	23	〃	+0.025 mL TKN STD

EPPENDORFS:
Acid Digestion Solution: 6977428
ICAL NH3 Standard: 6258170
LCS/MS TKN Standard: 7020722
Batch #: 629707

5pt TALS #

TestAmerica Buffalo

TOTAL KJELDAHL NITROGEN DIGESTION LOG – Method 351.2

Date Digested	Prep Analyst	Job #	Sample ID	Flask #	Dilution	Comments
6-12-22	EG	MB	BLANK	24		
		LCS	2.5	25		+ 0.0625 ml TKN STD
		198517	C-3	26	1x	
			C-3 MS	27		+0.025 ml TKN STD
			C-3 MSD	28		1
		160 188886	D-1	29		
			D-2	30		
			D-3	31		
			D-4	32		
		198720	C-1	33		
			C-2	34		
			C-3	35		
			C-4	36		
		198566	B-1	37		
			B-3	38		
			B-6	39		
			B-8	40		
			B-9	41		
			B-10	42		
			B-10 MS	43		+0.025 ml TKN STD
			DIL	44		
			DIL	45		
			DIL	46		

EPPENDORFS:
Acid Digestion Solution: 6977428
ICAL NH3 Standard: 6258170
LCS/MS TKN Standard: 7020722
Batch #: 629708

629963

Solutions Used: Konelab AQUA20 & 20XT

TKN Reagent	I.D	Expires
Sodium Salicylate	6997014	15 June 2022
Sodium Hypochlorite	7013848	15 June 2022
Buffer	7013825	15 June 2022

Standards:

Name	ID	Expiration
Ammonia as N 1000ppm	6258170	11/03/2022
CCV (2.5ppm)	7031876	06/15/2022
Second Source Ammonia as N 1000 ppm (ICV)	6438487	08/31/2022
Total Kjeldahl Nitrogen 1000ppm:		
LCS (2.5ppm)		
MS (1.0ppm)	7020722	06/03/2024

TKN Curve Kone 1: 06-02-2022
Batch 628531
CURVE (5.0 ppm): 7017299
ICV (2.5 ppm): 7017300

TKN Curve Gallery 1: 11-22-2021
Batch 606076
CURVE (5.0 ppm): 6790643
ICV (2.5 ppm): 6791791

629963

Laboratory
Analyzer User

6/14/2022 10:52

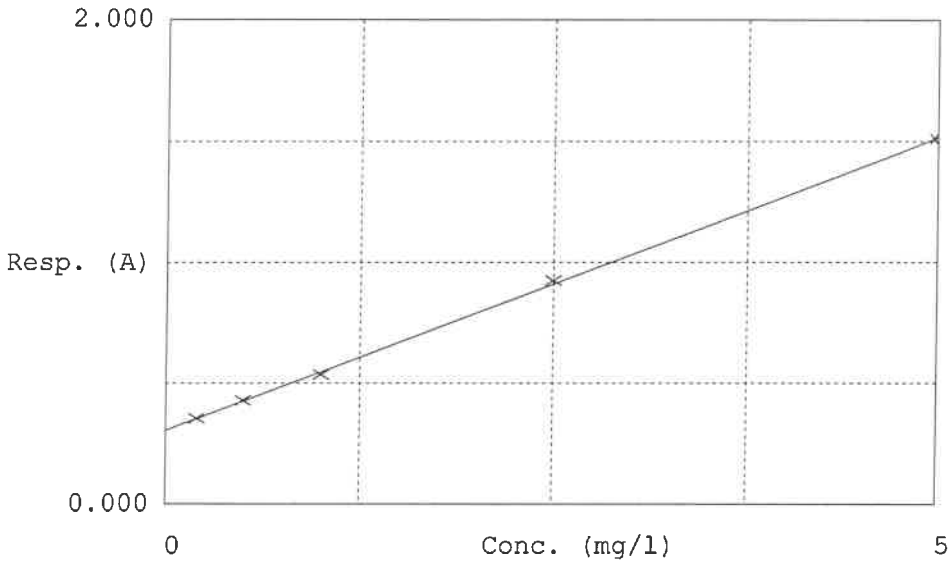
Test TKN

Accepted 6/2/2022 7:42

Factor 4.133
Bias 0.306

Coeff. of det. 0.999600

Errors Meas. error



	Calibrator	Response	Calc. con.	Conc.	Errors
1	TKN-5.0	0.355	0.2032	0.2000	E.e. out of limit
2	TKN-5.0	0.429	0.5089	0.5000	E.e. out of limit
3	TKN-5.0	0.536	0.9503	1.0000	E.e. out of limit
4	TKN-5.0	0.924	2.5574	2.5000	E.e. out of limit
5	TKN-5.0	1.511	4.9802	5.0000	E.e. out of limit

629963

Laboratory
Analyzer User

6/14/2022 10:52

Performed 6/14/2022 6:02
MAX acceptable SD 2.0 mA

Wavelength	Abs (mA)	SD (mA)	SignGain	RefGain	Voltage (V)
340 nm	-297.7	0.2	0	0	6.2
405 nm	-342.0	0.3	2	2	6.2
420 nm	-422.1	0.3	2	2	6.2
460 nm	-305.0	0.2	1	1	6.0
480 nm	-300.0	0.2	0	0	6.2
520 nm	-297.5	0.2	0	0	6.2
540 nm	-297.3	0.2	0	0	6.2
575 nm	-297.3	0.2	0	0	6.2
600 nm	-296.9	0.1	0	0	6.2
630 nm	-296.9	0.1	0	0	5.9
660 nm	-297.4	0.1	0	0	5.9
700 nm	-297.4	0.1	0	0	5.4
880 nm	-273.4	0.2	0	0	5.3

629963

Laboratory
Analyzer User

Date : 6/14/2022
Time : 10:52

Test : TKN
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
CCV TKN	2.712	6/14/2022 8:33		
CCB TKN	0.093	6/14/2022 8:33		
mb 480-629826/1-	0.119	6/14/2022 8:33	R	
lcs 480-629826/2	2.681	6/14/2022 8:33	R	
mb 480-629829/1-	0.084	6/14/2022 8:33	R	
lcs 480-629829/2	2.692	6/14/2022 8:33	R	
CCV TKN	2.624	6/14/2022 8:36		
CCB TKN	0.088	6/14/2022 8:36		
480-198813-c-1-a	0.153	6/14/2022 8:59		
480-198813-c-1-b	0.119	6/14/2022 8:59		
480-198581-c-2-d	0.736	6/14/2022 8:59		
500-217252-b-1-b	0.569	6/14/2022 8:59		
480-198813-c-3-a	1.434	6/14/2022 8:59		
480-198813-c-4-a	0.776	6/14/2022 8:59		
480-198813-c-5-a	0.091	6/14/2022 8:59		
480-198813-c-6-a	0.373	6/14/2022 8:59		
CCV TKN	2.658	6/14/2022 9:08		
CCB TKN	0.067	6/14/2022 9:08		
480-198813-c-7-a	0.448	6/14/2022 9:08		
480-198813-c-8-a	2.667	6/14/2022 9:08		
480-198813-c-9-a	0.182	6/14/2022 9:08		
480-198813-c-10-	0.934	6/14/2022 9:08		
180-138812-d-2-a	1.598	6/14/2022 9:08		
480-198785-a-1-a	3.417	6/14/2022 9:08		
480-198582-c-1-a	0.096	6/14/2022 9:08		
620-4827-b-1-a	0.897	6/14/2022 9:08		
620-4827-b-1-b m	1.866	6/14/2022 9:08		
CCV TKN	2.671	6/14/2022 9:17		
CCB TKN	0.028	6/14/2022 9:17		
480-198582-c-2-a	0.670	6/14/2022 9:17		
480-198582-c-2-b	0.697	6/14/2022 9:17		
480-198582-c-3-a	0.377	6/14/2022 9:17		
480-198582-c-3-b	1.545	6/14/2022 9:17		
480-198582-c-4-a	0.464	6/14/2022 9:17		
480-198582-c-5-a	0.230	6/14/2022 9:17		
480-198582-c-6-a	0.157	6/14/2022 9:17		
480-198582-c-7-a	0.210	6/14/2022 9:17		
480-198582-c-8-a	0.619	6/14/2022 9:17		
480-198582-c-9-a	0.076	6/14/2022 9:17		
CCV TKN	2.630	6/14/2022 9:25		
CCB TKN	0.045	6/14/2022 9:25		
CCV TKN	2.669	6/14/2022 10:16		
CCB TKN	0.066	6/14/2022 10:16		
480-198582-c-11-	4.592	6/14/2022 10:16	R	
480-198604-c-1-a	0.092	6/14/2022 10:16	R	
480-198604-c-2-a	0.780	6/14/2022 10:16	R	
480-198604-c-3-a	0.068	6/14/2022 10:16	R	
480-198604-c-4-a	0.439	6/14/2022 10:16	R	
480-198604-c-5-a	0.330	6/14/2022 10:16	R	
480-198604-c-5-b	1.323	6/14/2022 10:16	R	
480-198813-c-2-a	9.397	6/14/2022 10:24	R	1+1.0
480-198813-c-2-b	11.099	6/14/2022 10:24	R	1+4.0
CCV TKN	2.734	6/14/2022 10:24		

Laboratory
Analyzer User

Date : 6/14/2022
Time : 10:52

Test : TKN
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
CCB TKN	0.122	6/14/2022 10:24		
CCV TKN	2.641	6/14/2022 10:26		
CCB TKN	0.099	6/14/2022 10:26		
480-198497-d-2-b	66.266	6/14/2022 10:46	R	1+19.0
480-198582-c-10-	5.587	6/14/2022 10:46	R	1+1.0
CCV TKN	2.691	6/14/2022 10:49		
CCB TKN	0.099	6/14/2022 10:49		

Historical Data Summary Report

For Batch 629963

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198497-D-2-B	88-148-1	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	20.0	66.3	☐	58.266 - 86.084	☐	49.76 - 94.56
480-198582-C-10-A	MW19S	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	2.0	5.6	☐	2.55 - 6.4	☐	2.64 - 6.24
480-198582-C-11-A	MW20R	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	4.6	☐	0.827 - 5.048	☐	1.44 - 5.16
480-198582-C-1-A	01FB	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0.559	☐	0 - 0.6
480-198582-C-2-A	B11D	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	0.67	☐	0.279 - 1.524	☐	0.376 - 1.32
480-198582-C-3-A	B11S	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	0.38	☐	0 - 1.073	☐	0 - 1.08
480-198582-C-4-A	B15D	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	0.46	☐	0 - 2.506	☐	0.176 - 2.64
480-198582-C-5-A	B15S	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	0.23	☐	0 - 0.629	☐	0 - 0.456
480-198582-C-6-A	MW12D	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0.528	☐	0 - 0.384
480-198582-C-7-A	MW17D	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	0.21	☐	0 - 0.515	☐	0 - 0.36
480-198582-C-8-A	MW17S	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	0.62	☐	0.182 - 1.043	☐	0.304 - 1.02
480-198582-C-9-A	MW19D	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0.463	☐	0 - 0.444
480-198604-C-1-A	MW-15LA	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198604-C-2-A	MW-5I	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.78	☐	0.206 - 1.279	☐	0.344 - 1.188
480-198604-C-3-A	MW-C'B	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.703	☐	0 - 0.564
480-198604-C-4-A	MW-C'I	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.44	☐	0 - 0.971	☐	0.184 - 0.984
480-198604-C-5-A	MW-C'L	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.33	☐	0 - 0.606	☐	0 - 0.492
480-198813-C-10-A	MW-7A	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.93	☐	0 - 1.326	☐	0.392 - 1.44
480-198813-C-1-A	MW-1A	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.71	☐	0 - 0.612
480-198813-C-2-A	MW-2A	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	2.0	9.4	☐	1.405 - 10.47	☑	2.96 - 9.24
480-198813-C-3-A	MW-2B	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	1.4	☐	0 - 13.47	☐	0.8 - 9.24
480-198813-C-4-A	MW-3A	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.78	☐	0 - 1.194	☐	0 - 1.08
480-198813-C-5-A	MW-3B	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.447	☐	0 - 0.324
480-198813-C-6-A	MW-4A	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.37	☐	0 - 0.728	☐	0 - 0.696
480-198813-C-7-A	MW-5A	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.45	☐	0 - 0.966	☐	0 - 0.84
480-198813-C-8-A	MW-6A	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	2.7	☐	0 - 7.466	☐	0.96 - 7.92
480-198813-C-9-A	MW-6B	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.992	☐	0 - 0.912

GK

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TKN Digestion Logbook Form
Rev. 1
05/16/2017

TestAmerica Buffalo

TOTAL KJELDAHL NITROGEN DIGESTION LOG – Method 351.2

Date Digested	Prep Analyst	Job #	Sample ID	Flask #	Dilution	Comments
6-13-22	EG	ICAL	5.0 PPM	1		+ 0.125 mL NH3 STD
		MB	BLANK	2		
		LCS	2.5 PPM	3		+ 0.0625 mL TKN STD
		198813	C-1	4	1x	
			C-1DU	5		
			C-2	6		
			C-2MS	7		25ul TKN STD
		198581	C-2	8	500x	50ul → 25ml
		500 217252	B-1	9	1	1
		198813	C-3	10	1x	
			C-4	11		
			C-5	12		
			C-6	13		
			C-7	14		
			C-8	15		
			C-9	16		
			C-10	17		
		100 138612	D-2	18		
		116497	D-2	19		
		198785	A-1	20		
		198582	C-1	21		
		620 4827	B-1	22		
		1	B-1MS	23		25ul TKN STD

EPPENDORFS: M10117D, Q42644H, 046805H

Acid Digestion Solution: 6977430

5pt TALS # 7031850

ICAL NH3 Standard: 6258170

LCS/MS TKN Standard: 7020722

Batch #: 629826

TKN Digestion Logbook Form
Rev. 1
05/16/2017

TestAmerica Buffalo
TOTAL KJELDAHL NITROGEN DIGESTION LOG – Method 351.2

Date Digested	Prep Analyst	Job #	Sample ID	Flask #	Dilution	Comments
6-13-22	EG	MB	BLANK	24		
		LCS	2.5	25		+ 0.0625 ml TKN STD
		198582	C-2	26	1x	
			C-2 DU	27		
			C-3	28		
			C-3 MS	29		+25ul TKNSTD
			C-4	30		
			C-5	31		
			C-6	32		
			C-7	33		
			C-8	34		
			C-9	35		
			C-10	36		
			C-11	37		
		198604	C-1	38		
			C-2	39		
			C-3	40		
			C-4	41		
			C-5	42		
			C-5MS	43		+25ul TKNSTD
			DIL	44		
			DIL	45		
			DIL	46		

EPPENDORFS:
Acid Digestion Solution: 6977430
ICAL NH3 Standard: 6258170
LCS/MS TKN Standard: 7020722
Batch #: 629829

630270

Solutions Used: Konelab AQUA20 & 20XT

TKN Reagent	I.D	Expires
Sodium Salicylate	7031945	12 July 2022
Sodium Hypochlorite	7031943	28 June 2022
Buffer	7031942	28 June 2022

Standards:

Name	ID	Expiration
Ammonia as N 1000ppm	6258170	11/03/2022
CCV (2.5ppm)	7036581	06/17/2022
Second Source Ammonia as N 1000 ppm (ICV)	6438487	08/31/2022
Total Kjeldahl Nitrogen 1000ppm:		
LCS (2.5ppm)		
MS (1.0ppm)	7020722	06/03/2024

TKN Curve Kone 1: 06-02-2022
Batch 630270
CURVE (5.0 ppm): 7035007
ICV (2.5 ppm): 7036582

TKN Curve Gallery 1: 11-22-2021
Batch 606076
CURVE (5.0 ppm): 6790643
ICV (2.5 ppm): 6791791

Calibration results Aquakem 7.1AQ1 Page: 1

630270

Laboratory
Analyzer User

6/16/2022 9:36

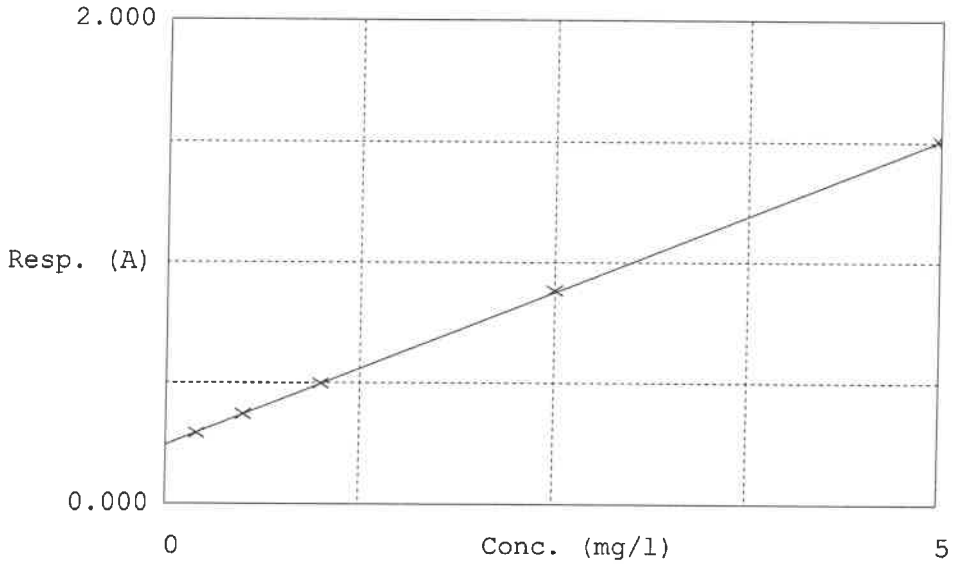
Test TKN

Accepted 6/16/2022 7:33

Factor 3.956
Bias 0.244

Coeff. of det. 0.999933

Errors Meas. error,QC rule violated



	Calibrator	Response	Calc. con.	Conc.	Errors
1	TKN-5.0	0.291	0.1867	0.2000	E.e. out of limit
2	TKN-5.0	0.370	0.4983	0.5000	E.e. out of limit
3	TKN-5.0	0.497	1.0013	1.0000	E.e. out of limit
4	TKN-5.0	0.883	2.5265	2.5000	E.e. out of limit
5	TKN-5.0	1.505	4.9872	5.0000	E.e. out of limit
6	TKN ICB(control	0.238	-0.0258	0.0000	Test limit low
7	TKN-ICV(control	0.924	2.6903	2.5000	

Check water blank | Aquakem 7.1AQ1 | Page: 1

Laboratory
Analyzer User

6/16/2022 9:36

Performed 6/16/2022 6:03
MAX acceptable SD 2.0 mA

Wavelength	Abs (mA)	SD (mA)	SignGain	RefGain	Voltage (V)
340 nm	-297.5	0.2	0	0	6.2
405 nm	-341.5	0.3	2	2	6.2
420 nm	-421.5	0.3	2	2	6.2
460 nm	-304.7	0.3	1	1	6.0
480 nm	-299.7	0.3	0	0	6.2
520 nm	-297.2	0.2	0	0	6.2
540 nm	-297.1	0.2	0	0	6.2
575 nm	-297.1	0.2	0	0	6.2
600 nm	-296.7	0.2	0	0	6.2
630 nm	-296.7	0.2	0	0	5.7
660 nm	-297.2	0.2	0	0	5.9
700 nm	-297.2	0.1	0	0	5.4
880 nm	-273.2	0.1	0	0	5.1

630270

Laboratory
Analyzer User

Date : 6/16/2022
Time : 9:36

Test : TKN
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
TKN-ICV	2.690	6/16/2022 7:33		
TKN ICB	-0.026	6/16/2022 7:33		
CCV TKN	2.641	6/16/2022 7:51		
CCB TKN	0.009	6/16/2022 7:51		
mb 480-630167/1-	0.018	6/16/2022 7:51	R	
lcs 480-630167/2	2.494	6/16/2022 7:51	R	
lcs 480-630168/2	2.569	6/16/2022 7:51	R	
CCV TKN	2.599	6/16/2022 7:53		
CCB TKN	0.002	6/16/2022 7:53		
mb 480-630168/1-	0.079	6/16/2022 8:25	R	
480-198602-c-4-a	0.031	6/16/2022 8:25		
480-198602-c-4-b	1.105	6/16/2022 8:25		
480-198602-c-4-c	0.959	6/16/2022 8:25		
480-198581-c-2-e	3.154	6/16/2022 8:25		
500-217252-b-1-c	2.209	6/16/2022 8:25		
480-198720-c-1-b	0.899	6/16/2022 8:25		
480-198720-c-2-b	0.252	6/16/2022 8:25		
480-198720-c-4-b	0.257	6/16/2022 8:25		
480-198815-c-1-a	0.301	6/16/2022 8:25		
CCV TKN	2.550	6/16/2022 8:34		
CCB TKN	-0.003	6/16/2022 8:34		
480-198815-c-2-a	0.960	6/16/2022 8:34		
180-138886-d-1-b	1.347	6/16/2022 8:34		
180-138886-d-4-b	2.343	6/16/2022 8:34		
480-198568-b-3-b	4.683	6/16/2022 8:34		
480-198568-b-6-b	0.089	6/16/2022 8:34		
180-139040-e-1-a	0.193	6/16/2022 8:34		
CCV TKN	2.489	6/16/2022 8:43		
CCB TKN	0.017	6/16/2022 8:43		
180-139040-e-1-b	1.376	6/16/2022 8:43		
480-198651-i-2-a	0.089	6/16/2022 8:43		
480-198651-i-2-b	0.995	6/16/2022 8:43		
480-198651-i-2-c	1.839	6/16/2022 8:43		
480-198580-c-1-a	1.676	6/16/2022 8:43		
480-198581-c-1-b	1.224	6/16/2022 8:43		
CCV TKN	2.592	6/16/2022 8:52		
CCB TKN	-0.018	6/16/2022 8:52		
180-139039-d-1-a	1.612	6/16/2022 8:52		
480-198602-c-1-a	0.284	6/16/2022 8:52		
480-198602-c-2-a	0.192	6/16/2022 8:52		
480-198602-c-3-a	0.129	6/16/2022 8:52		
480-198602-c-5-a	0.314	6/16/2022 8:52		
480-198602-c-6-a	0.089	6/16/2022 8:52		
180-139034-g-1-a	0.245	6/16/2022 8:52		
180-139040-e-2-a	0.259	6/16/2022 8:52		
180-139040-e-2-b	1.262	6/16/2022 8:52		
CCV TKN	2.552	6/16/2022 8:54		
CCB TKN	0.006	6/16/2022 8:54		
CCV TKN	2.665	6/16/2022 9:01		
CCB TKN	0.006	6/16/2022 9:01		
180-138886-d-2-b	6.905	6/16/2022 9:23	R	1+1.0
180-138886-d-3-b	39.580	6/16/2022 9:23	R	1+9.0
480-198568-b-1-b	31.449	6/16/2022 9:23	R	1+9.0

CT 6-16-22

Laboratory
Analyzer User

Date : 6/16/2022
Time : 9:36

Test : TKN
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
480-198603-b-1-a	11.284	6/16/2022 9:23	R	1+4.0
480-198568-b-8-b	34.619	6/16/2022 9:30	R	1+9.0
480-198568-b-9-b	22.136	6/16/2022 9:30	R	1+9.0
480-198568-b-10-	29.498	6/16/2022 9:30	R	1+9.0
480-198613-d-1-a	43.008	6/16/2022 9:30	R	1+9.0
CCV TKN	2.569	6/16/2022 9:32		
CCB TKN	0.001	6/16/2022 9:32		

Historical Data Summary Report

For Batch 630270

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits	
480-198580-C-1-A	POND01	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	1.7	☐	0 - 4.064	☐	0.648 - 3.36	
480-198581-C-1-B	MLLA3	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	1.2	☑	0.419 - 1.171	☑	0.464 - 1.128	Re
480-198581-C-2-E	MLLA2/GASCOND	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	2	1.0	315	☐	0 - 531	☑	184.8 - 277.2	OK
480-198602-C-1-A	DUP 1	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.28	☐	0 - 0.94	☐	0 - 0.876	
480-198602-C-2-A	MW-DB	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	7	1.0	0.19	☐	0 - 1.335	☐	0 - 0.936	
480-198602-C-3-A	MW-DI	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.465	☐	0 - 0.468	
480-198602-C-4-A	MW-DLA	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	ND	☐	0 - 23.905	☐	0 - 25.68	
480-198602-C-5-A	MW-IB	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.31	☐	0.173 - 0.69	☐	0.24 - 0.684	
480-198602-C-6-A	MW-II	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.31	☐	0 - 0.24	
480-198613-D-1-A	MH02	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	2	10.0	43.0	☑	44.5 - 46	☐	36.2 - 54.3	
480-198651-I-2-A	MW- JL	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	2	1.0	ND	☐	0 - 1.34	☑	0.268 - 0.402	OK
480-198720-C-1-B	CD-1	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.90	☐	0 - 1.696	☐	0 - 1.8	
480-198720-C-2-B	CD-1RA	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.25	☐	0 - 1.201	☐	0 - 0.852	
480-198815-C-1-A	DO-2	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	6	1.0	0.30	☐	0 - 0.895	☐	0 - 0.684	
480-198815-C-2-A	RE-7	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	6	1.0	0.96	☐	0 - 2.313	☐	0 - 2.16	
500-217252-B-1-C	Outfall 030 Week 21	351.2	Nitrogen, Kjeldahl	Total/NA	mg/L	1	1.0	221	☑	876 - 876	☑	700.8 - 1051.2	OK

TKN Digestion Logbook Form
Rev. 1
05/16/2017

TestAmerica Buffalo

TOTAL KJELDAHL NITROGEN DIGESTION LOG – Method 351.2

Date Digested	Prep Analyst	Job #	Sample ID	Flask #	Dilution	Comments
6-15-22	EG	ICAL	5.0 PPM	1		+ 0.125 mL NH3 STD
		MB	BLANK	2		
		LCS	2.5 PPM	3		+ 0.0625 mL TKN STD
		198602	C-4	4	1x	
		〃	C-4MS	5	〃	+25ul TKN STD
			C-4MSD	6	〃	〃
		198581	C-2	7	100x	
		500 217252	B-1	8	〃	
		198720	C-1	9	1x	
		〃	C-2	10		
			C-4	11		
		198815	C-1	12		
		〃	C-2	13		
		100 138886	D-1	14		
		〃	D-2	15		
			D-3	16		
			D-4	17		
		198568	B-1	18		
		〃	B-3	19		
			B-6	20		
			B-8	21		
		100 139046	E-1	22		
		〃	E-1 MS	23		+25ul TKN STD

EPPENDORFS: 1538601, M10117D, H11719L
Acid Digestion Solution: 6977430
ICAL NH3 Standard: 6258170
LCS/MS TKN Standard: 7020722
Batch #: 630167

5pt TALS # 7035007

TestAmerica Buffalo

TOTAL KJELDAHL NITROGEN DIGESTION LOG – Method 351.2

Date Digested	Prep Analyst	Job #	Sample ID	Flask #	Dilution	Comments
6-15-22	EG	MB	BLANK	24		
		LCS	2.5	25		+ 0.0625 ml TKN STD
		198651	1-2	26	1x	
		〃	1-2MS	27	〃	+25ul TKNSTD
		〃	1-2MSD	28	〃	〃
		198568	B-9	29	〃	
		〃	B-10	30	〃	
		198580	C-1	31	〃	
		198581	C-1	32	〃	
		198603	B-1	33	〃	
		198613	D-1	34	〃	
		180 139039	D-1	35	〃	
		198602	C-1	36	〃	
		〃	C-2	37	〃	
		〃	C-3	38	〃	
		〃	C-5	39	〃	
		〃	C-6	40	〃	
		180 139034	G-1	41	〃	
		180 139040	E-2	42	〃	
		〃	E-2MS	43	〃	+25ul TKNSTD
			DIL	44		
			DIL	45		
			DIL	46		

EPPENDORFS:
Acid Digestion Solution: 6977430
ICAL NH3 Standard: 6258170
LCS/MS TKN Standard: 7020722
Batch #:

Calibration

Calib 618704-0 / Chemical Oxygen Demand

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Concentration
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

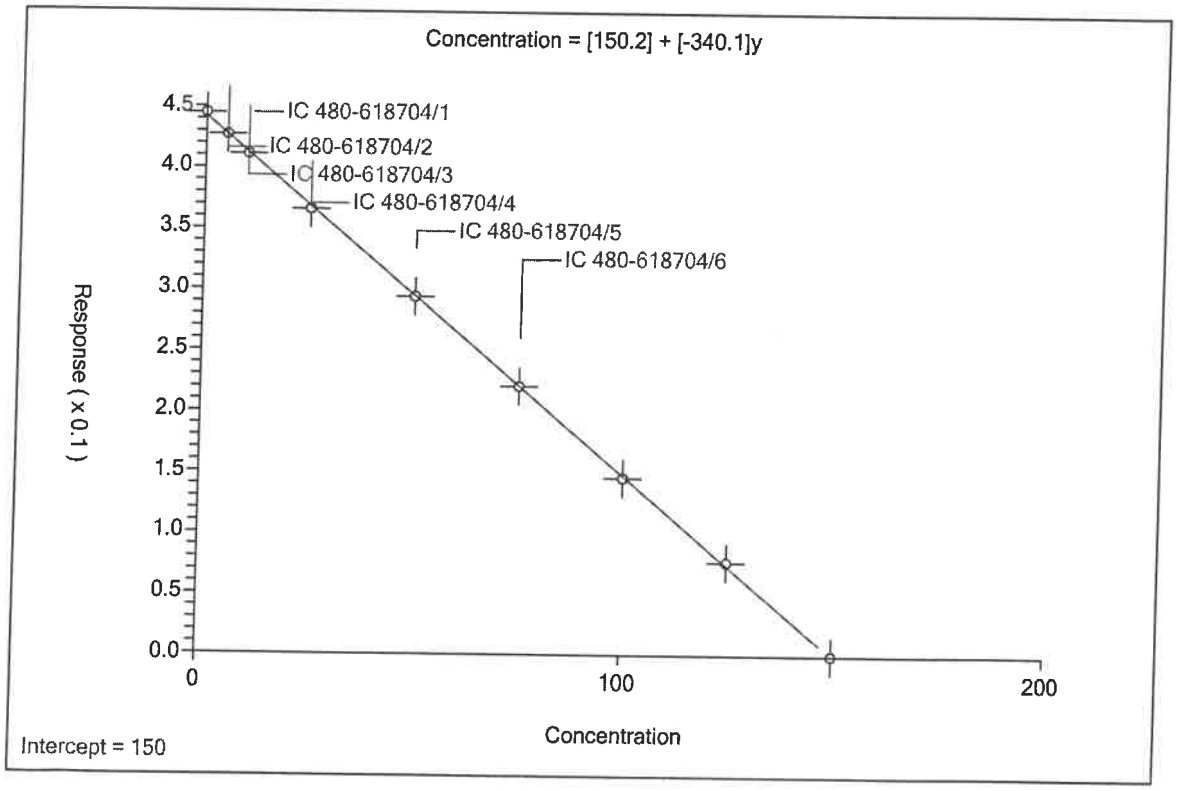
Curve Coefficients

Intercept:	150.2
Slope:	-340.1

Error Coefficients

Standard Error:	0.694
Relative Standard Error:	2.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000 (1.000)

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 480-618704/1	0.0	0.445			∞	Y
2	IC 480-618704/2	5.0	0.427			0.0854	Y
3	IC 480-618704/3	10.0	0.411			0.0411	Y
4	IC 480-618704/4	25.0	0.366			0.01464	Y
5	IC 480-618704/5	50.0	0.294			0.00588	Y
6	IC 480-618704/6	75.0	0.221			0.002947	Y
7	IC 480-618704/7	100.0	0.146			0.00146	Y
8	IC 480-618704/8	125.0	0.077			0.000616	Y
9	IC 480-618704/9	150.0	0.0			0.0	Y



Laboratory Bench Sheet
Chemical Oxygen Demand
Genesys 30

EurofinsTestAmerica - Buffalo

6904249

Analyst:	CSS
Start Date:	03/22/2022
Start Time:	17:20
End Date:	03/22/2022
End Time:	19:20
Curve Date	03/22/22
EQL	10.0 mg/L

Calibration Curve Information

	Conc.(mg/L)	ABS.
STD1	0.000	0.446
Std. 2	5.000	0.430
Std. 3	10.000	0.410
Std. 4	25.000	0.364
Std. 5	50.000	0.295
Std. 6	75.000	0.219
Std. 7	100.000	0.146
Std. 8	125.000	0.079
STD 9	150.000	0.000

Reactor Temperatures

	Measured Temperature	* Corrected Temperature (after correction Factor applied) *
Reactor #2	150.1	150
Reactor #1		
Reactor #A		
Reactor #B		
Reactor #		

* Temperature Acceptance Range = 148-152 °C

BATCH # 618704

Instrument Information

Instrument:	GENESYS 30
Wavelength:	420
Parameter:	COD LOW
Corr. Coef:	**-0.99981**
Slope:	**-0.00294**
Intercept:	**0.44188**
COD Tube sourc	HACH
Lot#	
Expiration date:	

LCS Information:

Lot #	
Concentration (mg/L)	1000
ICV	25

CCV Information:

Lot #	
Concentration (mg/L):	1000
CCV True value	75

Matrix Spike Information:

Lot#:	
Concentration (mg/L):	1000
MS True Value	50

Job #	Sample ID	Vial #	Sample vol.	Sample Abs.	Conc. (mg/l)	Prep DF	Final Conc. mg/L	% Rec.	chloride	Start Date	Start Time
IC 0	0 PPM	1	2.000	0.445	150.3	1			N	3/22/22	17:20
IC 5	5 PPM	2	2.000	0.427	150.3	1	6904251				
IC 10	10 PPM	3	2.000	0.411	150.3	1	6904252				
IC 25	25 PPM	4	2.000	0.366	150.3	1	6904253				
IC 50	50 PPM	5	2.000	0.294	150.3	1	6904255				
IC 75	75 PPM	6	2.000	0.221	150.3	1	6904256				
IC 100	100 PPM	7	2.000	0.146	150.3	1	6904257				
IC 125	125 PPM	8	2.000	0.077	150.3	1	6904259				
IC 150	150 PPM	9	2.000	0.000	150.3	1	6904261				
ICV	ICV	10	2.000	0.015	150.3	1					
ICB	ICB	11	2.000	0.000	150.3	1					
		12	2.000								
STD	CCV	13	2.000		150.3			200.36%			
BLANK	CCB	14	2.000		150.3						
		15	2.000								

6558984

ICV = 145/147

ICV = 98%

Historical Data Summary Report

For Batch 630049

630049

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198720-C-1	CD-1	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198720-C-2	CD-1RA	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 18.731	☐	0 - 15.6
480-198720-C-3	MW-1B	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 103.074	☐	0 - 109.68
480-198727-C-1	MSW Cell 1A/B/C/D	410.4	Chemical Oxygen Demand	Total/NA	mg/L	6	1.0	ND	☐	0 - 15.256	☐	0 - 10.56
480-198727-C-2	MSW Phase 2 Outfa	410.4	Chemical Oxygen Demand	Total/NA	mg/L	6	1.0	ND	☐	0 - 8.351	☐	0 - 7.8
480-198727-C-3	MSW Phase 3 Outfa	410.4	Chemical Oxygen Demand	Total/NA	mg/L	6	1.0	ND	☐	0 - 7.323	☐	0 - 6.84
480-198727-C-4	MW-PB	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 10.663	☐	0 - 7.2
480-198727-C-5	MW-PI	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 13.481	☐	0 - 10.68
480-198727-C-6	PRF Outfall	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 17.428	☐	0 - 18.72
480-198764-M-1	MHN1	410.4	Chemical Oxygen Demand	Total/NA	mg/L	5	10.0	795	☐	0 - 1014.067	☐	96.8 - 831.6
480-198764-M-2	TANKN2	410.4	Chemical Oxygen Demand	Total/NA	mg/L	5	20.0	1860	☐	860.779 - 2451.221	☐	1008 - 2400
480-198764-M-3	TANKN3	410.4	Chemical Oxygen Demand	Total/NA	mg/L	5	5.0	474	☐	0 - 1162.442	☐	39.12 - 912
480-198764-M-4	TANKN4	410.4	Chemical Oxygen Demand	Total/NA	mg/L	5	10.0	961	☐	0 - 2190.435	☐	22.64 - 1764
480-198764-M-5	TANKN5	410.4	Chemical Oxygen Demand	Total/NA	mg/L	5	20.0	1830	☐	0 - 2793.85	☐	377.6 - 2580
480-198771-B-1	LPS01	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	20.0	2700	☐	0 - 3724.36	☐	302.4 - 3180
480-198776-E-1	PTPINF	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	20.0	1310	☐	468.266 - 3806.734	☐	824 - 3360
480-198777-B-1	SSR01E	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	400.0	58600	☐	0 - 466710.391	☐	289.6 - 462000
480-198777-B-2	SSR08E	410.4	Chemical Oxygen Demand	Total/NA	mg/L	5	400.0	39900	☐	0 - 63550.65	☐	79.44 - 51960
480-198778-D-1	CBAS	410.4	Chemical Oxygen Demand	Total/NA	mg/L	5	10.0	750	☐	157.414 - 927.386	☐	308 - 867.6
480-198813-C-1	MW-1A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 26.892	☐	0 - 26.16
480-198813-C-10	MW-7A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 45.218	☐	0 - 37.08
480-198813-C-2	MW-2A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	18.9	☐	0 - 35.001	☐	0 - 26.4
480-198813-C-3	MW-2B	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	19.9	☐	0 - 39.343	☐	0 - 31.32
480-198813-C-4	MW-3A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 42.012	☐	0 - 40.08
480-198813-C-5	MW-3B	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 18.181	☐	0 - 15.6
480-198813-C-6	MW-4A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 23.684	☐	0 - 25.44
480-198813-C-7	MW-5A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 19.652	☐	0 - 16.8
480-198813-C-8	MW-6A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	27.4	☐	0 - 70.125	☐	0 - 54.6
480-198813-C-9	MW-6B	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 32.475	☐	0 - 27.36
480-198815-C-1	DO-2	410.4	Chemical Oxygen Demand	Total/NA	mg/L	6	1.0	ND	☐	0 - 0	☐	0 - 0
480-198815-C-2	RE-7	410.4	Chemical Oxygen Demand	Total/NA	mg/L	6	1.0	ND	☐	0 - 25.694	☐	0 - 24
480-198832-D-1	WW-EFF	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	400.0	32600	☐	12499.272 - 46425.728	☐	16480 - 48600
480-198832-D-2	WW-RANE	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	400.0	39400	☐	11447.693 - 63877.307	☐	22800 - 66000
480-198832-D-3	WW-EQ TANK	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	400.0	37000	☐	4300.268 - 69599.732	☐	21200 - 68400
480-198843-C-1	DUP	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	10.4	☐	0 - 40.722	☐	0 - 39.48
480-198843-C-2	MW-12S	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	9.4	☐	0 - 36.502	☐	0 - 28.8
480-198843-C-3	MW-13S	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 15.804	☐	0 - 15.72
480-198843-C-4	MW-14S-R	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	16.2	☐	0 - 32.96	☐	9.12 - 34.92
480-198843-C-5	MW-15S	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	8.4	☐	0 - 39.944	☐	5.84 - 38.88

Page 480-630320

Historical Data Summary Report

For Batch 630049

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198843-C-6	MW-17S	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 37.047	☐	0 - 33.48
480-198859-D-1	OUTFALL #001	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	48.9	☐	0 - 103.786	☐	16.32 - 110.52
480-198894-B-1	AMW-2C	410.4	Chemical Oxygen Demand	Total/NA	mg/L	5	1.0	ND	☐	0 - 64.456	☐	0 - 48
480-198894-B-2	IMW-A1	410.4	Chemical Oxygen Demand	Total/NA	mg/L	5	1.0	25.7	☐	0 - 73.776	☐	0 - 49.92

Laboratory Bench Sheet

Chemical Oxygen Demand

Genesys 30

EurofinsTestAmerica - Buffalo

CCV: 6832583
LCS: 6832584
MS: 6795992

Analyst:	CSS
Start Date:	06/14/2022
Start Time:	18:00
End Date:	06/14/2022
End Time:	20:00
Curve Date	03/22/22
EQL	10.0 mg/L

Calibration Curve Information

	Conc.(mg/L)	ABS.
STD1	0.000	0.445
Std. 2	5.000	0.427
Std. 3	10.000	0.411
Std. 4	25.000	0.366
Std. 5	50.000	0.294
Std. 6	75.000	0.221
Std. 7	100.000	0.146
Std. 8	125.000	0.077
STD 9	150.000	0.000

Reactor Temperatures

	Measured Temperature	* Corrected Temperature (after correction Factor applied) *
Reactor #2	150.3	150.0
Reactor #1	150.2	150.0
Reactor #A	150.0	150.1
Reactor #B	150.0	150.2
Reactor #		

BATCH # 630049

Instrument Information

Instrument:	GENESYS 30
Wavelength:	420
Parameter:	COD LOW
Corr. Coef:	**-0.99993**
Slope:	**-0.00294**
Intercept:	**0.44162**
COD Tube sourc	HACH
Lot#	
Expiration date:	

LCS Information:

Lot #	
Concentration (mg/L)	1000
ICV	25

CCV Information:

Lot #	
Concentration (mg/L):	1000
CCV	
True value	75

Matrix Spike Information:

Lot#:	
Concentration (mg/L):	1000
MS	
True Value	50

* Temperature Acceptance Range = 148-152 °C

Job #	Sample ID	Vial #	Sample vol.	Sample Abs.	Conc. (mg/l)	Prep DF	Final Conc. mg/L	% Rec.	chloride	Start Date	Start Time
STD	CCV	1	2.000	0.224	150.2	1		200.28%	N	6/14/22	18:00
BLANK	CCB	2	2.000	0.446	150.2	1					
BLANK	MB	3	2.000	0.447	150.2	1					
STD	LCS	4	2.000	0.368	150.2	1		601%			
198720	C-4	5	2.000	0.430		1					
	C-4 MS	6	2.000	0.271		1					
	C-4 MSD	7	2.000	0.279		1					
	C-1	8	2.000	0.441		1					
	C-2	9	2.000	0.454		1					
	C-3	10	2.000	0.434		1					
198727	C-1	11	2.000	0.442		1					
	C-2	12	2.000	0.441		1					
STD	CCV	13	2.000	0.224	150.2	1		200.28%			
BLANK	CCB	14	2.000	0.447	150.2	1					
198727	C-6	15	2.000	0.433		1					

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Laboratory Bench Sheet
Chemical Oxygen Demand
Genesys 30

EurofinsTestAmerica - Buffalo

Analyst:	CSS
Start Date:	06/14/2022
Start Time:	18:00
End Date:	06/14/2022
End Time:	20:00
Curve Date	03/22/22
EQL	10.0 mg/L

Calibration Curve Information

	Conc.(mg/L)	ABS.
STD1	0.000	0.445
Std. 2	5.000	0.427
Std. 3	10.000	0.411
Std. 4	25.000	0.366
Std. 5	50.000	0.294
Std. 6	75.000	0.221
Std. 7	100.000	0.146
Std. 8	125.000	0.077
STD 9	150.000	0.000

Reactor Temperatures

	Measured Temperature	* Corrected Temperature (after correction Factor applied) *
Reactor #2		
Reactor #1		
Reactor #A		
Reactor #B		
Reactor #		

* Temperature Acceptance Range = 148-152 °C

BATCH # 630819

Instrument Information

Instrument:	GENESYS 30
Wavelength:	420
Parameter:	COD LOW
Corr. Coef:	**-0.99993**
Slope:	**-0.00294**
Intercept:	**0.44162**
COD Tube sourc	HACH
Lot#	
Expiration date:	

LCS Information:

Lot #	
Concentration (mg/L)	1000
ICV	25

CCV Information:

Lot #	
Concentration (mg/L):	1000
CCV	True value 75

Matrix Spike Information:

Lot#:		
Concentration (mg/L):		1000
MS	True Value	50

Job #	Sample ID	Vial #	Sample vol.	Sample Abs.	Conc. (mg/l)	Prep DF	Final Conc. mg/L	% Rec.	chloride	Start Date	Start Time
198727	C-6 MS	16	2.000	0.286		1			N	6/14/22	18:00
	C-3	17	2.000	0.432		1					
	C-4	18	2.000	0.440		1					
	C-5	19	2.000	0.448		1					
198704	M-1	20	2.000	0.208		10					
	M-2	21	2.000	0.168		20					
	M-3	22	2.000	0.163		5					
	M-4	23	2.000	0.159		10					
	M-5	24	2.000	0.173		20					
STD	CCV	25	2.000	0.222	150.2	1		200.28%			
BLANK	CCB	26	2.000	0.445	150.2	1					
BLANK	MB	27	2.000	0.444	150.2	1					
STD	LCS	28	2.000	0.374	150.2	1		601%			
198813	C-6	29	2.000	0.434		1					
	C-6 MS	30	2.000	0.274		1					

Laboratory Bench Sheet
Chemical Oxygen Demand
Genesys 30

EurofinsTestAmerica - Buffalo

Analyst:	CSS
Start Date:	06/14/2022
Start Time:	18:00
End Date:	06/14/2022
End Time:	20:00
Curve Date	03/22/22
EQL	10.0 mg/L

Calibration Curve Information

	Conc.(mg/L)	ABS.
STD1	0.000	0.445
Std. 2	5.000	0.427
Std. 3	10.000	0.411
Std. 4	25.000	0.366
Std. 5	50.000	0.294
Std. 6	75.000	0.221
Std. 7	100.000	0.146
Std. 8	125.000	0.077
STD 9	150.000	0.000

Reactor Temperatures

	Measured Temperature	* Corrected Temperature (after correction Factor applied) *
Reactor #2		
Reactor #1		
Reactor #A		
Reactor #B		
Reactor #		

BATCH # 230049

Instrument Information

Instrument:	GENESYS 30
Wavelength:	420
Parameter:	COD LOW
Corr. Coef:	**-0.99993**
Slope:	**-0.00294**
Intercept:	**0.44162**
COD Tube sourc	HACH
Lot#	
Expiration date:	

LCS Information:

Lot #	
Concentration (mg/L)	1000
ICV	25
CCV Information:	
Lot #	
Concentration (mg/L):	1000
CCV	
True value	75
Matrix Spike Information:	
Lot#:	
Concentration (mg/L):	1000
MS	
True Value	50

* Temperature Acceptance Range = 148-152 °C

Job #	Sample ID	Vial #	Sample vol.	Sample Abs.	Conc. (mg/l)	Prep DF	Final Conc. mg/L	% Rec.	chloride	Start Date	Start Time
198813	C-6 MSD	31	2.000	0.274		1			N	6/14/22	18:00
	C-1	32	2.000	0.422		1					
	C-2	33	2.000	0.386		1					
	C-3	34	2.000	0.383		1					
	C-4	35	2.000	0.417		1					
	C-5	36	2.000	0.447		1					
STD	CCV	37	2.000	0.224	150.2	1		200.28%			
BLANK	CCB	38	2.000	0.445	150.2	1					
198813	C-9	39	2.000	0.443		1					
	C-9 MS	40	2.000	0.278		1					
	C-7	41	2.000	0.451		1					
	C-8	42	2.000	0.361		1					
	C-10	43	2.000	0.426		1					
198815	C-1	44	2.000	0.440		1					
	C-2	45	2.000	0.413		1					

Laboratory Bench Sheet
Chemical Oxygen Demand
Genesys 30

EurofinsTestAmerica - Buffalo

Analyst:	CSS
Start Date:	06/14/2022
Start Time:	18:00
End Date:	06/14/2022
End Time:	20:00
Curve Date	03/22/22
EQL	10.0 mg/L

Calibration Curve Information

	Conc.(mg/L)	ABS.
STD1	0.000	0.445
Std. 2	5.000	0.427
Std. 3	10.000	0.411
Std. 4	25.000	0.366
Std. 5	50.000	0.294
Std. 6	75.000	0.221
Std. 7	100.000	0.146
Std. 8	125.000	0.077
STD 9	150.000	0.000

Reactor Temperatures

	Measured Temperature	* Corrected Temperature (after correction Factor applied) *
Reactor #2		
Reactor #1		
Reactor #A		
Reactor #B		
Reactor #		

* Temperature Acceptance Range = 148-152 °C

BATCH # 630019

Instrument Information

Instrument:	GENESYS 30
Wavelength:	420
Parameter:	COD LOW
Corr. Coef:	**-0.99993**
Slope:	**-0.00294**
Intercept:	**0.44162**
COD Tube sourc	HACH
Lot#	
Expiration date:	

LCS Information:

Lot #	
Concentration (mg/L)	1000
ICV	25

CCV Information:

Lot #	
Concentration (mg/L):	1000
CCV	True value 75

Matrix Spike Information:

Lot#:	
Concentration (mg/L):	1000
MS	True Value 50

Job #	Sample ID	Vial #	Sample vol.	Sample Abs.	Conc. (mg/l)	Prep DF	Final Conc. mg/L	% Rec.	chloride	Start Date	Start Time
198774	B-1	46	2.000	0.044		20			N	6/14/22	18:00
198774	C-1	47	2.000	0.315		1					
198776	E-1	48	2.000	0.249		20					
STD	CCV	49	2.000	0.224	150.2	1		200.28%			
BLANK	CCB	50	2.000	0.441	150.2	1					
BLANK	MB	51	2.000	0.443	150.2	1					
STD	LCS	52	2.000	0.367	150.2	1		601%			
198824	B-2	53	2.000	0.457		1					
	B-2 MS	54	2.000	0.284		1					
	B-2 MSD	55	2.000	0.286		1					
	B-1	56	2.000	0.409		1					
198830	D-2	57	2.000	0.045		1					
	J-3	58	2.000	0.415		1					
198859	D-1	59	2.000	0.298		1					
198778	D-1	60	2.000	0.224		10					

Laboratory Bench Sheet
Chemical Oxygen Demand
Genesys 30

EurofinsTestAmerica - Buffalo

Analyst:	CSS
Start Date:	06/14/2022
Start Time:	18:00
End Date:	06/14/2022
End Time:	20:00
Curve Date	03/22/22
EQL	10.0 mg/L

Calibration Curve Information

	Conc.(mg/L)	ABS.
STD1	0.000	0.445
Std. 2	5.000	0.427
Std. 3	10.000	0.411
Std. 4	25.000	0.366
Std. 5	50.000	0.294
Std. 6	75.000	0.221
Std. 7	100.000	0.146
Std. 8	125.000	0.077
STD 9	150.000	0.000

Reactor Temperatures

	Measured Temperature	* Corrected Temperature (after correction Factor applied) *
Reactor #2		
Reactor #1		
Reactor #A		
Reactor #B		
Reactor #		

Intercept:	**0.44162**
COD Tube sourc	HACH
Lot#	
Expiration date:	

BATCH # 630019

Instrument Information

Instrument:	GENESYS 30
Wavelength:	420
Parameter:	COD LOW
Corr. Coef:	**-0.99993**
Slope:	**-0.00294**

LCS Information:

Lot #	
Concentration (mg/L)	1000
ICV	25

CCV Information:

Lot #	
Concentration (mg/L):	1000
CCV True value	75

Matrix Spike Information:

Lot#:	
Concentration (mg/L):	1000
MS True Value	50
chloride Start Date	Start Time

* Temperature Acceptance Range = 148-152 °C

Job #	Sample ID	Vial #	Sample vol.	Sample Abs.	Conc. (mg/l)	Prep DF	Final Conc. mg/L	% Rec.
STD	CCV	61	2.000	0.224	150.2	1		200.28%
BLANK	CCB	62	2.000	0.441	150.2	1		
198843	C-6	63	2.000	0.444		1		
	C-6 MS	64	2.000	0.287		1		
	C-1	65	2.000	0.411		1		
	C-2	66	2.000	0.414		1		
	C-3	67	2.000	0.453		1		
	C-4	68	2.000	0.394		1		
	C-5	69	2.000	0.417		1		
198868	D-1	70	2.000	0.059		1		
	D-2	71	2.000	0.365		1		
630-4946	B-1	72	2.000	0.159		1		
STD	CCV	73	2.000	0.224	150.2	1		200.28%
BLANK	CCB	74	2.000	0.447	150.2	1		
BLANK	MB	75	2.000	0.446	150.2	1		

chloride	Start Date	Start Time
N	6/14/22	18:00

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Laboratory Bench Sheet
Chemical Oxygen Demand
Genesys 30

EurofinsTestAmerica - Buffalo

Analyst:	CSS
Start Date:	06/14/2022
Start Time:	18:00
End Date:	06/14/2022
End Time:	20:00
Curve Date	03/22/22
EQL	10.0 mg/L

Calibration Curve Information

	Conc.(mg/L)	ABS.
STD1	0.000	0.445
Std. 2	5.000	0.427
Std. 3	10.000	0.411
Std. 4	25.000	0.366
Std. 5	50.000	0.294
Std. 6	75.000	0.221
Std. 7	100.000	0.146
Std. 8	125.000	0.077
STD 9	150.000	0.000

Reactor Temperatures

	Measured Temperature	* Corrected Temperature (after correction Factor applied) *
Reactor #2		
Reactor #1		
Reactor #A		
Reactor #B		
Reactor #		

BATCH # 630049

Instrument Information

Instrument:	GENESYS 30
Wavelength:	420
Parameter:	COD LOW
Corr. Coef:	**-0.99993**
Slope:	**-0.00294**
Intercept:	**0.44162**
COD Tube sourc	HACH
Lot#	
Expiration date:	

LCS Information:

Lot #	
Concentration (mg/L)	1000
ICV	25
CCV Information:	
Lot #	
Concentration (mg/L):	1000
CCV True value	75
Matrix Spike Information:	
Lot#:	
Concentration (mg/L):	1000
MS True Value	50

* Temperature Acceptance Range = 148-152 °C

Job #	Sample ID	Vial #	Sample vol.	Sample Abs.	Conc. (mg/l)	Prep DF	Final Conc. mg/L	% Rec.	chloride	Start Date	Start Time
STD	LCS	76	2.000	0.369	150.2	1		601%	N	6/14/22	18:00
188894	B-2	77	2.000	0.366		1					
	B-2 MS	78	2.000	0.234		1					
	B-2 MSD	79	2.000	0.230		1					
	B-1	80	2.000	0.447		1					
630-4903	K-1	81	2.000	0.404		1					
	K-2	82	2.000	0.381		1					
	K-3	83	2.000	0.365		1					
	K-4	84	2.000	0.431		1					
STD	CCV	85	2.000	0.220	150.2	1		200.28%			
BLANK	CCB	86	2.000	0.447	150.2	1					
630-4903	K-6	87	2.000	0.252		1					
	K-6 MS	88	2.000	0.096		1					
	K-5	89	2.000	0.160		1					
630-4938	K-1	90	2.000	0.131		1					

Laboratory Bench Sheet
Chemical Oxygen Demand
Genesys 30

EurofinsTestAmerica - Buffalo

Analyst:	CSS
Start Date:	06/14/2022
Start Time:	18:00
End Date:	06/14/2022
End Time:	20:00
Curve Date	03/22/22
EQL	10.0 mg/L

Calibration Curve Information

	Conc.(mg/L)	ABS.
STD1	0.000	0.445
Std. 2	5.000	0.427
Std. 3	10.000	0.411
Std. 4	25.000	0.366
Std. 5	50.000	0.294
Std. 6	75.000	0.221
Std. 7	100.000	0.146
Std. 8	125.000	0.077
STD 9	150.000	0.000

Reactor Temperatures

	Measured Temperature	* Corrected Temperature (after correction Factor applied) *
Reactor #2		
Reactor #1		
Reactor #A		
Reactor #B		
Reactor #		

* Temperature Acceptance Range = 148-152 °C

BATCH # 630019

Instrument Information

Instrument:	GENESYS 30
Wavelength:	420
Parameter:	COD LOW
Corr. Coef:	**-0.99993**
Slope:	**-0.00294**
Intercept:	**0.44162**
COD Tube sourc	HACH
Lot#	
Expiration date:	

LCS Information:

Lot #	
Concentration (mg/L)	1000
ICV	25
CCV Information:	
Lot #	
Concentration (mg/L):	1000
CCV	
True value	75
Matrix Spike Information:	
Lot#:	
Concentration (mg/L):	1000
MS	
True Value	50

Job #	Sample ID	Vial #	Sample vol.	Sample Abs.	Conc. (mg/l)	Prep DF	Final Conc. mg/L	% Rec.	chloride	Start Date	Start Time
630-4938	K-2	91	2.000	0.368		1			N	6/14/22	18:00
	K-3	92	2.000	0.324		1					
630-4996	A-3	93	2.000	0.331		1					
	A-4	94	2.000	0.405		1					
	A-5	95	2.000	0.395		1					
	A-6	96	2.000	0.339		1					
198777	B-1	97	2.000	0.011		400	250uL in 100mL				
	B-2	98	2.000	0.148		400					
198832	D-1	99	2.000	0.202		400					
	D-2	100	2.000	0.152		400					
	D-3	101	2.000	0.170		400					
STD	CCV	102	2.000	0.219	150.2	1		200%			
BLANK	CCB	103	2.000	0.457	150.2	1					
BLANK	MB	104	2.000		150.2						
STD	LCS	105	2.000		150.2			601%			

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629847

Solutions Used: Skalar Scan+

TOTAL RECOVERABLE PHENOLICS

Intermediate@10ppm ricca	7030286	EXP: 06/20/2022
Intermediate@10ppm Ricca 2nd lot	7030287	EXP: 06/20/2022
CCV@0.1ppm	7030823	EXP: 06/14/2022
Potassium Ferricyanide	7030290	EXP: 06/14/2022
4-Aminoantipyrene	7030289	EXP: 06/14/2022
Distillation Reagent	7030288	EXP: 06/20/2022

LCS/CCV/MS/MSD = 0.1 ppm

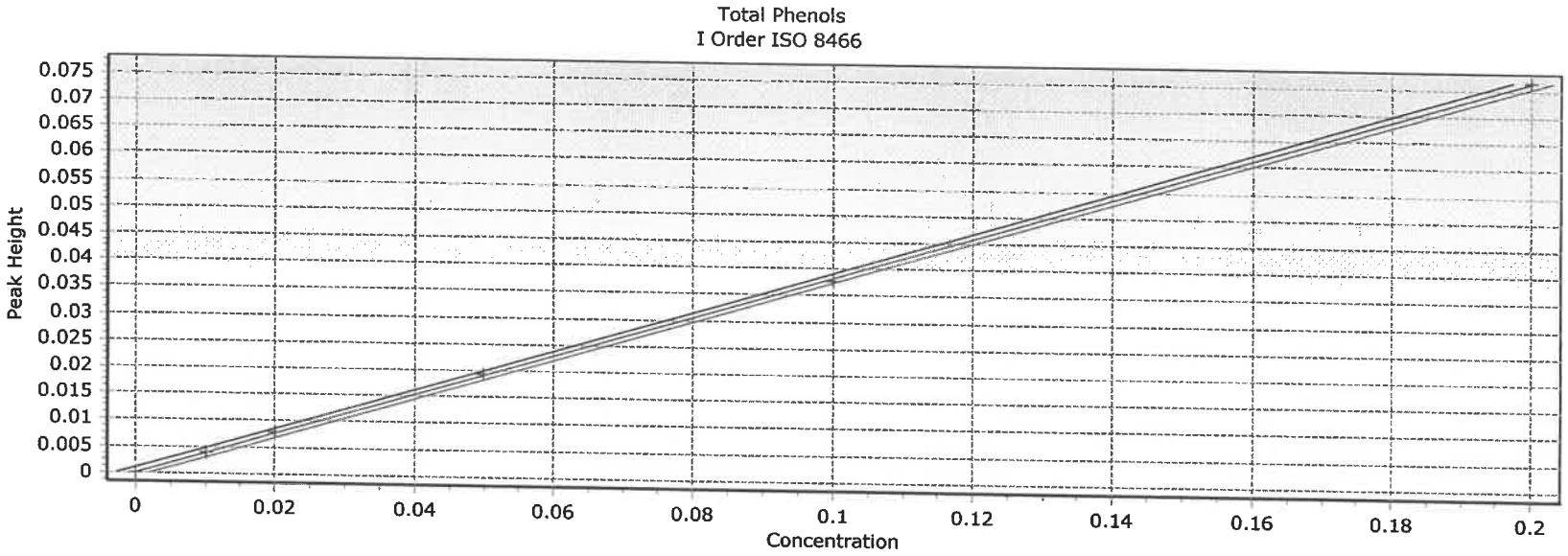
Skalar: Curve - 7030286

ICV @ 0.1 ppm – 7030824 **EXP:** 06/14/2022

629847

FlowAccessV3

Date:6/13/2022 1:51 PM



a = 0.00007381013825 b = 0.38195668202765 RSD = 0.00028999631096

r = 0.99996015605875 R2 = 0.99992031370505 Detection Limit = 0.00184922366176161 Determination L

Run Name : TABUF20220613A0PHE0613202, Run Db Ref : TABUF20220613A0

User Name : Administrator Operator Name : Administrator

FlowAccessV3 Results Report

Run Name : TABUF20220613A0PHE06132022A, Run Database Ref : TABUF20220613A0
DateTime :6/13/2022 7:21:11 AM
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	External Dilution	Total Phenols-Results [ppm]	Total Phenols-CorrectedHeight	Total Phenols-PeakPickingTime	Total Phenols-
1	IW	IW	InitialWash		1.0000	-0.0002	0.0000	Jun 13 2022 7:33AM	-0.000193
2	A1	T	Tracer		1.0000	0.2007	0.0767	Jun 13 2022 7:36AM	0.200662
3	WT	W	Wash		1.0000	-0.0002	0.0000	Jun 13 2022 7:42AM	-0.000193
4	A2	S1	Standard1		1.0000	-0.0004	-0.0001	Jun 13 2022 7:46AM	-0.000409
5	A3	S2	Standard2		1.0000	0.0102	0.0040	Jun 13 2022 7:49AM	0.010218
6	A4	S3	Standard3		1.0000	0.0204	0.0079	Jun 13 2022 7:53AM	0.020427
7	A5	S4	Standard4		1.0000	0.0506	0.0194	Jun 13 2022 7:56AM	0.050555
8	A6	S5	Standard5		1.0000	0.0988	0.0378	Jun 13 2022 8:00AM	0.098802
9	A7	S6	Standard6		1.0000	0.2004	0.0766	Jun 13 2022 8:04AM	0.200406
10	A8	ICV	ICV		1.0000	0.1004	0.0384	Jun 13 2022 8:07AM	0.100435
11	A9	ICB	ICB		1.0000	0.0017	0.0007	Jun 13 2022 8:11AM	0.001732
12	A10	D	Drift		1.0000	0.1930	0.0738	Jun 13 2022 8:15AM	0.193024
13	WT	W	Wash		1.0000	-0.0002	0.0000	Jun 13 2022 8:18AM	-0.000193
14	A11	CCV	CCV		1.0000	0.0988	0.0378	Jun 13 2022 8:23AM	0.098764
15	A12	CCB	CCB		1.0000	-0.0010	-0.0003	Jun 13 2022 8:26AM	-0.001037
16	A13	B	MB		1.0000	-0.0015	-0.0005	Jun 13 2022 8:29AM	-0.001474
17	A14	LCS	LCS		1.0000	0.0973	0.0372	Jun 13 2022 8:33AM	0.097324
18	A15	U	480-198719-L-1		1.0000	0.0019	0.0002	Jun 13 2022 8:37AM	0.001916
19	A16	U	MS 480-198719-L-1		1.0000	0.1014	0.0382	Jun 13 2022 8:40AM	0.101362
20	A17	U	480-198415-M-1	5ml->10ml	2.0000	0.0243	0.0044	Jun 13 2022 8:44AM	0.012156
21	A18	U	480-198415-M-2		2.0000	0.0135	0.0024	Jun 13 2022 8:48AM	0.006736
22	A19	U	480-198568-B-7		2.0000	0.0584	0.0109	Jun 13 2022 8:51AM	0.029191
23	A20	U	480-198568-B-11		2.0000	0.0228	0.0041	Jun 13 2022 8:55AM	0.011387
24	A21	U	480-198581-E-1		1.0000	0.0452	0.0168	Jun 13 2022 8:59AM	0.045203
25	A22	U	480-198609-I-1	2ml->10ml	5.0000	0.0710	0.0054	Jun 13 2022 9:03AM	0.014204
26	WT	W	Wash		1.0000	-0.0002	0.0000	Jun 13 2022 9:06AM	-0.000193
27	A23	CCV	CCV		1.0000	0.0966	0.0370	Jun 13 2022 9:11AM	0.096587

FlowAccessV3 Results Report

Run Name : TABUF20220613A0PHE06132022A, Run Database Ref : TABUF20220613A0
DateTime :6/13/2022 7:21:11 AM
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	External Dilution	Total Phenols-Results [ppm]	Total Phenols-CorrectedHeight	Total Phenols-PeakPickingTime	Total Phenols-
28	A24	CCB	CCB		1.0000	0.0002	0.0002	Jun 13 2022 9:13AM	0.000246
29	A25	D	Drift		1.0000	0.1989	0.0761	Jun 13 2022 9:17AM	0.198939
30	WT	W	Wash		1.0000	-0.0002	0.0000	Jun 13 2022 9:21AM	-0.000193
31	A26	U	480-198720-G-1		1.0000	0.0007	-0.0002	Jun 13 2022 9:26AM	0.000744
32	A27	U	DU 480-198720-G-1		1.0000	0.0002	-0.0004	Jun 13 2022 9:28AM	0.000248
33	A28	U	MS 480-198720-G-1		1.0000	0.0658	0.0246	Jun 13 2022 9:32AM	0.06575
34	A29	U	480-198720-G-2		1.0000	0.0008	-0.0002	Jun 13 2022 9:35AM	0.000784
35	A30	U	480-198720-G-3		1.0000	0.0007	-0.0002	Jun 13 2022 9:39AM	0.000689
36	A31	U	480-198720-G-4		1.0000	0.0005	-0.0003	Jun 13 2022 9:43AM	0.000519
37	A32	U	480-198723-G-1		1.0000	0.0007	-0.0002	Jun 13 2022 9:46AM	0.000677
38	A33	U	480-198727-F-1		1.0000	0.0003	-0.0004	Jun 13 2022 9:50AM	0.000254
39	A34	U	480-198727-F-2		1.0000	0.0006	-0.0002	Jun 13 2022 9:54AM	0.000632
40	A35	U	480-198727-F-3		1.0000	0.0005	-0.0003	Jun 13 2022 9:57AM	0.0005
41	A36	CCV	CCV		1.0000	0.0953	0.0365	Jun 13 2022 10:01AM	0.095349
42	A37	CCB	CCB		1.0000	-0.0001	0.0000	Jun 13 2022 10:05AM	-7.5E-05
43	A38	D	Drift		1.0000	0.2004	0.0766	Jun 13 2022 10:08AM	0.200375
44	WT	W	Wash		1.0000	-0.0002	0.0000	Jun 13 2022 10:12AM	-0.000193
45	A39	B	MB		1.0000	-0.0009	-0.0003	Jun 13 2022 10:17AM	-0.000862
46	A40	LCS	LCS		1.0000	0.0957	0.0366	Jun 13 2022 10:19AM	0.095708
47	A41	U	480-198727-f-4		1.0000	-0.0002	-0.0003	Jun 13 2022 10:23AM	-0.000172
48	A42	U	MS 480-198727-f-4		1.0000	0.0967	0.0367	Jun 13 2022 10:27AM	0.096658
49	A43	U	480-198727-f-5		1.0000	0.0000	-0.0002	Jun 13 2022 10:30AM	2.4E-05
50	A44	U	480-198727-f-6		1.0000	-0.0007	-0.0005	Jun 13 2022 10:34AM	-0.000727
51	A45	U	480-198736-e-1		1.0000	0.0159	0.0058	Jun 13 2022 10:38AM	0.015899
52	A46	U	480-198743-e-1		1.0000	0.3062	0.1167	Jun 13 2022 10:41AM	0.306241
53	A47	U	480-198743-a-2		1.0000	0.0242	0.0090	Jun 13 2022 10:45AM	0.024221
54	A48	U	480-198743-a-3		1.0000	0.0525	0.0198	Jun 13 2022 10:49AM	0.052474

Run Name : TABUF20220613A0PHE06132022A, Run Database Ref : TABUF20220613A0
DateTime :6/13/2022 7:21:11 AM
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	External Dilution	Total Phenols-Results [ppm]	Total Phenols-CorrectedHeight	Total Phenols-PeakPickingTime	Total Phenols-
55	A49	CCV	CCV		1.0000	0.0989	0.0379	Jun 13 2022 10:52AM	0.098913
56	A50	CCB	CCB		1.0000	0.0010	0.0005	Jun 13 2022 10:56AM	0.00099
57	A51	D	Drift		1.0000	0.1941	0.0742	Jun 13 2022 11:00AM	0.194135
58	WT	W	Wash		1.0000	-0.0002	0.0000	Jun 13 2022 11:03AM	-0.000193
59	A52	U	480-198743-a-4		1.0000	0.0115	0.0041	Jun 13 2022 11:08AM	0.011505
60	A53	U	DU 480-198743-a-4		1.0000	0.0108	0.0039	Jun 13 2022 11:11AM	0.010808
61	A54	U	MS 480-198743-a-4		1.0000	0.1099	0.0417	Jun 13 2022 11:14AM	0.109904
62	A55	U	480-198743-e-5		1.0000	0.0010	0.0001	Jun 13 2022 11:18AM	0.001001
63	A56	U	480-198743-e-6		1.0000	0.0071	0.0025	Jun 13 2022 11:22AM	0.007096
64	A57	U	480-198790-d-2		1.0000	0.0000	-0.0002	Jun 13 2022 11:25AM	4E-05
65	A58	U	480-198813-f-1		1.0000	-0.0004	-0.0004	Jun 13 2022 11:29AM	-0.000384
66	A59	U	480-198813-f-2		1.0000	-0.0004	-0.0004	Jun 13 2022 11:33AM	-0.000431
67	A60	U	480-198813-f-3		1.0000	-0.0006	-0.0005	Jun 13 2022 11:36AM	-0.000629
68	B1	U	480-198813-f-4		1.0000	-0.0007	-0.0005	Jun 13 2022 11:40AM	-0.000713
69	B2	CCV	CCV		1.0000	0.0955	0.0365	Jun 13 2022 11:44AM	0.095494
70	B3	CCB	CCB		1.0000	0.0000	0.0001	Jun 13 2022 11:47AM	-2.2E-05
71	B4	D	Drift		1.0000	0.1953	0.0747	Jun 13 2022 11:51AM	0.195294
72	WT	W	Wash		1.0000	-0.0002	0.0000	Jun 13 2022 11:55AM	-0.000193
73	B5	B	MB		1.0000	-0.0002	0.0000	Jun 13 2022 11:59AM	-0.000196
74	B6	LCS	LCS		1.0000	0.0955	0.0365	Jun 13 2022 12:02PM	0.095489
75	B7	U	480-198813-f-5		1.0000	-0.0003	-0.0001	Jun 13 2022 12:06PM	-0.000307
76	B8	U	MS 480-198813-f-5		1.0000	0.0965	0.0369	Jun 13 2022 12:09PM	0.09649
77	B9	U	480-198813-f-6		1.0000	-0.0001	0.0000	Jun 13 2022 12:13PM	-8.7E-05
78	B10	U	480-198813-f-7		1.0000	-0.0004	-0.0002	Jun 13 2022 12:17PM	-0.000428
79	B11	U	480-198813-f-8		1.0000	-0.0017	-0.0006	Jun 13 2022 12:20PM	-0.001681
80	B12	U	480-198813-f-9		1.0000	-0.0016	-0.0006	Jun 13 2022 12:24PM	-0.00161
81	B13	U	480-198813-f-10		1.0000	-0.0013	-0.0005	Jun 13 2022 12:28PM	-0.001311

FlowAccessV3 Results Report

Run Name : TABUF20220613A0PHE06132022A, Run Database Ref : TABUF20220613A0
DateTime :6/13/2022 7:21:11 AM
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	External Dilution	Total Phenols-Results [ppm]	Total Phenols-CorrectedHeight	Total Phenols-PeakPickingTime	Total Phenols-
82	B14	U	480-198815-f-1		1.0000	-0.0019	-0.0007	Jun 13 2022 12:31PM	-0.001922
83	B15	CCV	CCV		1.0000	0.0958	0.0367	Jun 13 2022 12:35PM	0.095784
84	B16	CCB	CCB		1.0000	-0.0006	-0.0002	Jun 13 2022 12:39PM	-0.000644
85	B17	D	Drift		1.0000	0.1925	0.0736	Jun 13 2022 12:42PM	0.19253
86	WT	W	Wash		1.0000	-0.0002	0.0000	Jun 13 2022 12:46PM	-0.000193
87	B18	U	480-198815-f-2		1.0000	-0.0007	-0.0003	Jun 13 2022 12:51PM	-0.000746
88	B19	U	DU 480-198815-f-2		1.0000	-0.0011	-0.0004	Jun 13 2022 12:53PM	-0.001112
89	B20	U	MS 480-198815-f-2		1.0000	0.0978	0.0374	Jun 13 2022 12:57PM	0.097791
90	B21	U	480-198825-e-2		1.0000	0.0017	0.0006	Jun 13 2022 1:01PM	0.001699
91	B22	U	480-198825-e-3		1.0000	0.8720	0.3331	Jun 13 2022 1:04PM	0.87197
92	B23	U	480-198825-a-4		1.0000	0.0651	0.0249	Jun 13 2022 1:08PM	0.065117
93	B24	U	480-198825-a-6		1.0000	0.0074	0.0028	Jun 13 2022 1:12PM	0.007371
94	B25	U	480-198825-a-9		1.0000	0.0144	0.0055	Jun 13 2022 1:15PM	0.014357
95	B26	U	480-198825-a-10		1.0000	0.0206	0.0079	Jun 13 2022 1:19PM	0.020568
96	B27	U	480-198825-a-12		1.0000	0.0005	0.0002	Jun 13 2022 1:23PM	0.000521
97	WT	W	Wash		1.0000	-0.0002	0.0000	Jun 13 2022 1:26PM	-0.000193
98	B28	CCV	CCV		1.0000	0.0959	0.0367	Jun 13 2022 1:29PM	0.095876
99	B29	CCB	CCB		1.0000	0.0002	0.0001	Jun 13 2022 1:34PM	0.000188
100	B30	D	Drift		1.0000	0.1923	0.0735	Jun 13 2022 1:37PM	0.192251
101	WT	W	Wash		1.0000	-0.0002	0.0000	Jun 13 2022 1:41PM	-0.000193
102	E	E	EndRun		1.0000	-0.0002	0.0000	Jun 13 2022 1:46PM	-0.000193

Historical Data Summary Report

For Batch 629847

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198415-M-1	L101	420.4_NP	Total Recoverable Phenolics	Total/NA	ug/L	7	2.0000	24.3	☐	0 - 8005.759	☑	62.96 - 7920 leach ate
480-198581-E-1	MLLA3	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-198719-L-1	MW-OL	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	2	1.0000	ND	☐	0 - 0	☐	0 - 0
480-198720-G-1	CD-1	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-198720-G-2	CD-1RA	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-198720-G-3	MW-1B	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.012	☐	0 - 0.013
480-198723-G-1	MSW Phase 4 Outfa	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	2	1.0000	ND	☐	0 - 0	☐	0 - 0
480-198727-F-1	MSW Cell 1A/B/C/D	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	6	1.0000	ND	☐	0 - 0	☐	0 - 0
480-198727-F-2	MSW Phase 2 Outfa	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	6	1.0000	ND	☐	0 - 0	☐	0 - 0
480-198727-F-3	MSW Phase 3 Outfa	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	6	1.0000	ND	☐	0 - 0	☐	0 - 0
480-198727-F-4	MW-PB	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.011	☐	0 - 0.009
480-198727-F-5	MW-PI	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.014	☐	0 - 0.011
480-198727-F-6	PRF Outfall	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-198790-D-2	EFFLUENT	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.031	☐	0 - 0.034
480-198813-F-1	MW-1A	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-198813-F-10	MW-7A	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.013	☐	0 - 0.014
480-198813-F-2	MW-2A	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.032	☐	0 - 0.035
480-198813-F-3	MW-2B	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-198813-F-4	MW-3A	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-198813-F-5	MW-3B	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-198813-F-6	MW-4A	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-198813-F-7	MW-5A	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-198813-F-8	MW-6A	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.012	☐	0 - 0.013
480-198813-F-9	MW-6B	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-198815-F-1	DO-2	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	6	1.0000	ND	☐	0 - 0	☐	0 - 0

Historical Data Summary Report

For Batch 629847

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198815-F-2	RE-7	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	6	1.0000	ND	☐	0 - 0	☐	0 - 0

BF-WC-HexBS-026
rev2 9/9/21

Laboratory Bench Sheet
Hexavalent Chromium

Eurofins TestAmerica - Buffalo

Analyst:	EG
Start Date:	6-7-22
Start Time:	11:00
End Date:	6-7-22
End Time	2:20
DATE OF CURVE=	4/6/2022
	.
LOQ/RL: 0.010	mg/L

Calibration Curve Information

	Conc.(mg/L)	ABS.
STD1	0.000	0.000
Std. 2	0.010	0.010
Std. 3	0.020	0.023
Std. 4	0.050	0.044
Std. 5	0.100	0.087
Std. 6	0.200	0.171
Std. 7	0.300	0.272
Std. 8	0.400	0.329

Filter Lot #	
EPP #	
Hex Std used for curve:	6805695

LCS Information:

Lot#:	6994663	
Concentration (mg/L):		10
Expiration Date:		05/15/22
LCS	True value:	0.05

Matrix Spike Information:

Lot#:	6994663	
Concentration (mg/L):		10
Expiration Date:		05/15/22
MS	True Value	0.05

Chroma Ver3 Pillow Packets:

BATCH # 462918

Instrument Information

Instrument:	Genesys 30
Wavelength:	540
Parameter:	Hexavalent Chromium
Corr. Coef:	0.99818
Slope:	0.84288
Intercept:	0.00321

Time	Job #	Sample ID	Final Vol.	Sample	Color Blk.Corr.	Corrected	D.F.		Final Conc.	% Rec.	pH 1.5 - 2.5
			(mL)	ABS.	ABS.	ABS.		(mg/L)	(mg/L)		Yes or No
	CCV	CCV	25	0.039	0	0.000	1	0	0.0000	0%	Yes
	CCB	CCB	25	0	0	0.000	1	0	0.0000		Yes
	MB	MB	25	0	0	0.000	1	0	0.0000		Yes
	LCS	LCS	25	0.046	0	0.000	1	0	0.0000	0%	Yes
	196716	H-2	25	0	0	0.000	1	0	0.0000		Yes
		H-2MS	25	0	0	0.000	1	0	0.0000		Yes
		H-2MSD	25	0	0	0.000	1	0	0.0000		Yes
		H-7	25	0	0	0.000	x5	0	0.0000	5ul→25ml	Y
		H-7MS	25	0.048	0	0.000	x5	0	0.0000	↓	Y
		H-7MSD	25	0.049	0	0.000	x5	0	0.0000		Y
		H-3	25	0	0	0.000	1	0	0.0000		Y
		H-4	25	0	0	0.000	1	0	0.0000		Y
	CCV	CCV	25	0.045	0	0.000	1	0	0.0000	0%	Yes
	CCB	CCB	25	0	0	0.000	1	0	0.0000		Yes
	196716	H-5	25	0	0	0.000	1	0	0.0000		Y
		H-5MS	25	0	0	0.000	1	0	0.0000		Y
		H-6	25	0	0	0.000	1	0	0.0000		Y
		H-6MS	25	0.045	0	0.000	1	0	0.0000		Y
		H-7	25	0	0	0.000	1	0	0.0000		Y
		H-8	25	0	0	0.000	1	0	0.0000		Y
		H-9	25	0	0	0.000	1	0	0.0000		Y
	196716	P-1	25	0	0	0.000	1	0	0.0000		Y
	196716	L-1	25	0	0	0.000	1	0	0.0000		Y
		L-2	25	0	0	0.000	1	0	0.0000		Y
	CCV	CCV	25	0.046		0.000	1	0	0.0000	0%	Y
	CCB	CCB	25	0		0.000	1	0	0.0000		Y

BF-WC-HexBS-026
rev2 9/9/21

Laboratory Bench Sheet
Hexavalent Chromium

Eurofins TestAmerica - Buffalo

| | | |

Historical Data Summary Report

For Batch 629118

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198718-H-2	NSLMW05	7196A	Cr (VI)	Total/NA	mg/L	1	5.0	0.050	☑	0.01 - 0.01	☑	0.008 - 0.012
480-198718-H-3	NSLMW10	7196A	Cr (VI)	Total/NA	mg/L	1	1.0	0.010	☐	0.01 - 0.01	☐	0.008 - 0.012
480-198718-H-4	NSLFW01	7196A	Cr (VI)	Total/NA	mg/L	1	1.0	0.010	☐	0.01 - 0.01	☐	0.008 - 0.012
480-198718-H-5	NSLEW01	7196A	Cr (VI)	Total/NA	mg/L	1	1.0	0.010	☐	0.01 - 0.01	☐	0.008 - 0.012
480-198718-H-7	NSLMW06	7196A	Cr (VI)	Total/NA	mg/L	1	1.0	0.010	☐	0.01 - 0.01	☐	0.008 - 0.012
480-198718-H-8	NSLMW07	7196A	Cr (VI)	Total/NA	mg/L	1	1.0	0.010	☐	0.01 - 0.01	☐	0.008 - 0.012
480-198718-H-9	NSLMW08	7196A	Cr (VI)	Total/NA	mg/L	1	1.0	0.010	☐	0.01 - 0.01	☐	0.008 - 0.012
480-198719-P-1	MW-OL	7196A	Cr (VI)	Total/NA	mg/L	2	1.0	ND	☐	0 - 0	☐	0 - 0
480-198720-L-1	CD-1	7196A	Chromium, hexavalent	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-198720-L-2	CD-1RA	7196A	Chromium, hexavalent	Total/NA	mg/L	7	1.0	ND	☐	0 - 0	☐	0 - 0
480-198720-L-3	MW-1B	7196A	Chromium, hexavalent	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-198723-L-1	MSW Phase 4 Outfa	7196A	Chromium (hexavalent)	Total/NA	mg/L	2	1.0	ND	☐	0 - 0	☐	0 - 0

NeP

BF-WC-HexBS-026
rev2 9/9/21

Laboratory Bench Sheet
Hexavalent Chromium

Eurofins TestAmerica - Buffalo

Analyst:	EG	Calibration Curve Information			LCS Information:				BATCH #	6294260	
Start Date:	6-9-22		Conc.(mg/L)	ABS.	Lot#:	6994663			Instrument Information		
Start Time:	10:15	STD1	0.000	0.000	Concentration (mg/L):			10	Instrument:	Genesys 30	
End Date:	6-9-22	Std. 2	0.010	0.010	Expiration Date:			05/15/22	Wavelength:	540	
End Time	11:00	Std. 3	0.020	0.023	LCS	True value:		0.05	Parameter:	Hexavalent Chromium	
DATE OF CURVE=	4/6/2022	Std. 4	0.050	0.044	Matrix Spike Information:				Corr. Coef:	0.99818	
	.	Std. 5	0.100	0.087	Lot#:	6994663			Slope:	0.84288	
LOQ/RL:	0.010 mg/L	Std. 6	0.200	0.171	Concentration (mg/L):			10	Intercept:	0.00321	
		Std. 7	0.300	0.272	Expiration Date:			05/15/22			
Filter Lot #		Std. 8	0.400	0.329	MS	True Value		0.05			
EPP #		Hex Std used for curve:		6805695	Chroma Ver3 Pillow Packets:						

Time	Job #	Sample ID	Final Vol.	Sample	Color Blk.Corr.	Corrected	D.F.		Final Conc.	% Rec.	pH 1.5 - 2.5
			(mL)	ABS.	ABS.	ABS.		(mg/L)	(mg/L)		Yes or No
	CCV	CCV	25	0.043	0	0.000	1	0	0.0000	0%	Yes
	CCB	CCB	25	0	0	0.000	1	0	0.0000		Yes
	MB	MB	25	0	0	0.000	1	0	0.0000		Yes
	LCS	LCS	25	0.042	0	0.000	1	0	0.0000	0%	Yes
	196813	K-4	25	0	0	0.000	1	0	0.0000		Yes
		K-4dup	25	0	0	0.000	1	0	0.0000		Yes
		K-5	25	0	0	0.000	1	0	0.0000		Yes
		K-5MS	25	0.039	0	0.000	1	0	0.0000		Y
		K-6	25	0	0	0.000	1	0	0.0000		Y
		K-1	25	0	0	0.000	1	0	0.0000		Y
		K-2	25	0	0	0.000	1	0	0.0000		Y
		K-3	25	0	0	0.000	1	0	0.0000		Y
	CCV	CCV	25	0.047	0	0.000	1	0	0.0000	0%	Yes
	CCB	CCB	25	0	0	0.000	1	0	0.0000		Yes
	196813	K-7	25	0	0	0.000	1	0	0.0000		Y
		K-7dup	25	0	0	0.000	1	0	0.0000		Y
		K-9	25	0	0	0.000	1	0	0.0000		Y
		K-9MS	25	0.041	0	0.000	1	0	0.0000		Y
		K-8	25	0	0	0.000	1	0	0.0000		Y
		K-10	25	0	0	0.000	1	0	0.0000		Y
	196815	G-1	25	0	0	0.000	1	0	0.0000		Y
		G-2	25	0	0	0.000	1	0	0.0000		Y
	196830	M-3	25	0	0	0.000	1	0	0.0000		Y
			25		0	0.000	1	0	0.0000		
	CCV	CCV	25	0.048	0	0.000	1	0	0.0000	0%	EG
	CCB	CCB	25	0	0	0.000	1	0	0.0000		6-9-22

Historical Data Summary Report

For Batch 629426

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198813-K-1	MW-1A	7196A	Chromium, hexavalent	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-198813-K-10	MW-7A	7196A	Chromium, hexavalent	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-198813-K-2	MW-2A	7196A	Chromium, hexavalent	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-198813-K-3	MW-2B	7196A	Chromium, hexavalent	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198813-K-4	MW-3A	7196A	Chromium, hexavalent	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-198813-K-5	MW-3B	7196A	Chromium, hexavalent	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-198813-K-6	MW-4A	7196A	Chromium, hexavalent	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-198813-K-7	MW-5A	7196A	Chromium, hexavalent	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-198813-K-8	MW-6A	7196A	Chromium, hexavalent	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-198813-K-9	MW-6B	7196A	Chromium, hexavalent	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-198815-G-1	DO-2	7196A	Chromium, hexavalent	Total/NA	mg/L	3	1.0	ND	☐	0 - 0	☐	0 - 0
480-198815-G-2	RE-7	7196A	Chromium, hexavalent	Total/NA	mg/L	3	1.0	ND	☐	0 - 0	☐	0 - 0

629139

Eurofins Buffalo
COLOR LOGBOOK
SM2120B
Logbook # A22-15

DATE: 6-7-22 ANALYST: EL BATCH ID #: _____

Start Time: 1530 End Time: _____

Date of Calibration Curve: 5-13-22
Curve ID: 62166071 Calibration Expires: 6-13-22

LCS TALS ID#: 629787G9 LCS True Value 30 CU
CCV TALS ID#: " CCV True Value 30 CU

LCS/CCV Limits: 90 – 110 %
Precision Limits: 80 – 120 %

	Job# / QC	Sample ID#	Filtered Y/N	Sample pH	Color Units Observed	Dilution	Final Conc. (CU)	Time	Comments
1	CCV	30	N	1	30	1	30	1530	
2	CCb	–	N	5	<5	1	<5	1532	
3	MB	–	N	5	<5	1	<5	1534	
4	LCS	30	N	1	30	1	30	1536	
5	198719	O-1	N	5	15	1	15	1538	
6	"	O-1-dup	N	5	15	1	15	1541	
7	198720	J-1	N	5	15	1	15	1543	
8	"	J-2	N	5	15	1	15	1546	
9	"	J-3	N	5	10	1	10	1549	
10	"	I-4	N	5	5	1	5	1550	
11	198723	I-1	N	5	5	1	5	1552	
12							5	1555	
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									

Reviewer EL Date: 6-7-22

Historical Data Summary Report

For Batch 629139

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198719-O-1	MW-OL	2120B	Color	Total/NA	Color Unit	2	1.0	15.0	☐	10 - 25	☐	14 - 21
480-198720-J-1	CD-1	2120B	Color	Total/NA	Color Unit	5	1.0	15.0	☐	0 - 20.697	☐	0 - 18
480-198720-J-2	CD-1RA	2120B	Color	Total/NA	Color Unit	7	1.0	10.0	☐	0 - 13.069	☐	0 - 12
480-198720-J-3	MW-1B	2120B	Color	Total/NA	Color Unit	5	1.0	5.00	☐	0 - 9.348	☐	0 - 6
480-198723-I-1	MSW Phase 4 Outfa	2120B	Color	Total/NA	Color Unit	2	1.0	5.00	☑	0 - 0	☑	0 - 0

629581

Eurofins Buffalo
COLOR LOGBOOK
SM2120B
Logbook # A22-15

DATE: 6-9-22 ANALYST: EL BATCH ID #:

Start Time: 15:30 End Time: 16:06

Date of Calibration Curve: 5-13-22
Curve ID: 62216071 Calibration Expires: 6-13-22

LCS TALS ID#: 62987769 LCS True Value 30 CU LCS/CCV Limits: 90 – 110 %
CCV TALS ID#: " CCV True Value 30 CU Precision Limits: 80 – 120 %

	Job# / QC	Sample ID#	Filtered Y/N	Sample pH	Color Units Observed	Dilution	Final Conc. (CU)	Time	Comments
1	CCV	30	N	1	30	1	30	15:30	
2	CCb	–	N	5	<5	1	<5	15:31	
3	MB	–	N	5	<5	1	<5	15:33	
4	LCS	30	N	1	30	1	30	15:35	
5	198813	I-1	N	5	10	1	10	15:36	
6	|	I-1-dup	N	5	10	1	10	15:38	
7	|	I-2	N	5	10	1	10	15:39	true color
8	|	I-3	N	5	10	1	10	15:41	
9	|	I-4	N	5	15	1	15	15:43	
10	|	I-5	N	5	10	1	10	15:44	
11	|	I-6	N	5	10	1	10	15:46	
12	|	I-7	N	5	10	1	10	15:48	true color
13	CCV	30	N	1	30	1	30	15:09	
14	CCb	–	N	5	<5	1	<5	15:50	
15	198813	I-8	N	5	10	1	10	15:52	true color
16	|	I-8-dup	N	5	10	1	10	15:54	true color
17	|	I-9	N	5	10	1	10	15:56	true color
18	–	I-10	N	5	25	1	25	15:59	true color
19	198815	I-1	N	5	15	1	15	16:00	
20	"	I-2	N	5	25	1	25	16:02	
21	CCV	30		1	30	1	30	16:04	
22	CCb	–		5	<5	1	<5	16:06	
23									
24									
25									
26									

Reviewer: [signature] Date: 6-7-22

Historical Data Summary Report

For Batch 629501

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198813-I-1	MW-1A	2120B	Color	Total/NA	Color Unit	5	1.0	10.0	☐	0 - 15	☐	0 - 12
480-198813-I-10	MW-7A	2120B	Color	Total/NA	Color Unit	5	1.0	25.0	☐	0 - 40.821	☐	0 - 30
480-198813-I-2	MW-2A	2120B	Color	Total/NA	Color Unit	5	1.0	10.0	☐	0 - 36.495	☐	0 - 30
480-198813-I-3	MW-2B	2120B	Color	Total/NA	Color Unit	8	1.0	10.0	☐	0 - 31.161	☐	0 - 30
480-198813-I-4	MW-3A	2120B	Color	Total/NA	Color Unit	5	1.0	15.0	☐	0 - 61.675	☐	12 - 48
480-198813-I-5	MW-3B	2120B	Color	Total/NA	Color Unit	5	1.0	10.0	☐	10 - 10	☐	8 - 12
480-198813-I-6	MW-4A	2120B	Color	Total/NA	Color Unit	5	1.0	10.0	☐	0 - 23.974	☐	0 - 18
480-198813-I-7	MW-5A	2120B	Color	Total/NA	Color Unit	5	1.0	10.0	☐	0 - 23.697	☐	0 - 18
480-198813-I-8	MW-6A	2120B	Color	Total/NA	Color Unit	5	1.0	10.0	☐	0 - 41.594	☐	0 - 30
480-198813-I-9	MW-6B	2120B	Color	Total/NA	Color Unit	5	1.0	10.0	☐	0 - 19	☐	0 - 12
480-198815-I-1	DO-2	2120B	Color	Total/NA	Color Unit	3	1.0	15.0	☐	0 - 25.809	☑	9.333 - 14
480-198815-I-2	RE-7	2120B	Color	Total/NA	Color Unit	3	1.0	25.0	☐	14.596 - 28.738	☐	17.333 - 26

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_279.d
Lims ID: IC - STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 29-Mar-2022 10:51:09 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 279
Operator ID: tchrom Instrument ID: IC-2
Sublist: chrom-IC2-300*sub7

Method: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\IC2-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 30-Mar-2022 14:56:37 Calib Date: 29-Mar-2022 12:15:57
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1651

First Level Reviewer: zahniseri Date: 29-Mar-2022 12:37:13

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
3.363	3.433	-0.070	2567	0.0500	0.0483	M
2 Chloride						
4.440	4.487	-0.047	15889	0.5000	0.4920	
3 Nitrite as N						
5.120	5.180	-0.060	4786	NC	NC	
4 Sulfate						
5.940	5.960	-0.020	12537	0.5000	0.4910	
5 Bromide						
6.793	6.837	-0.044	1125	0.0500	0.0503	
6 Nitrate as N						
7.717	7.683	0.034	4209	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

IC_6ANION_STD_00003 Amount Added: 2.50 Units: uL

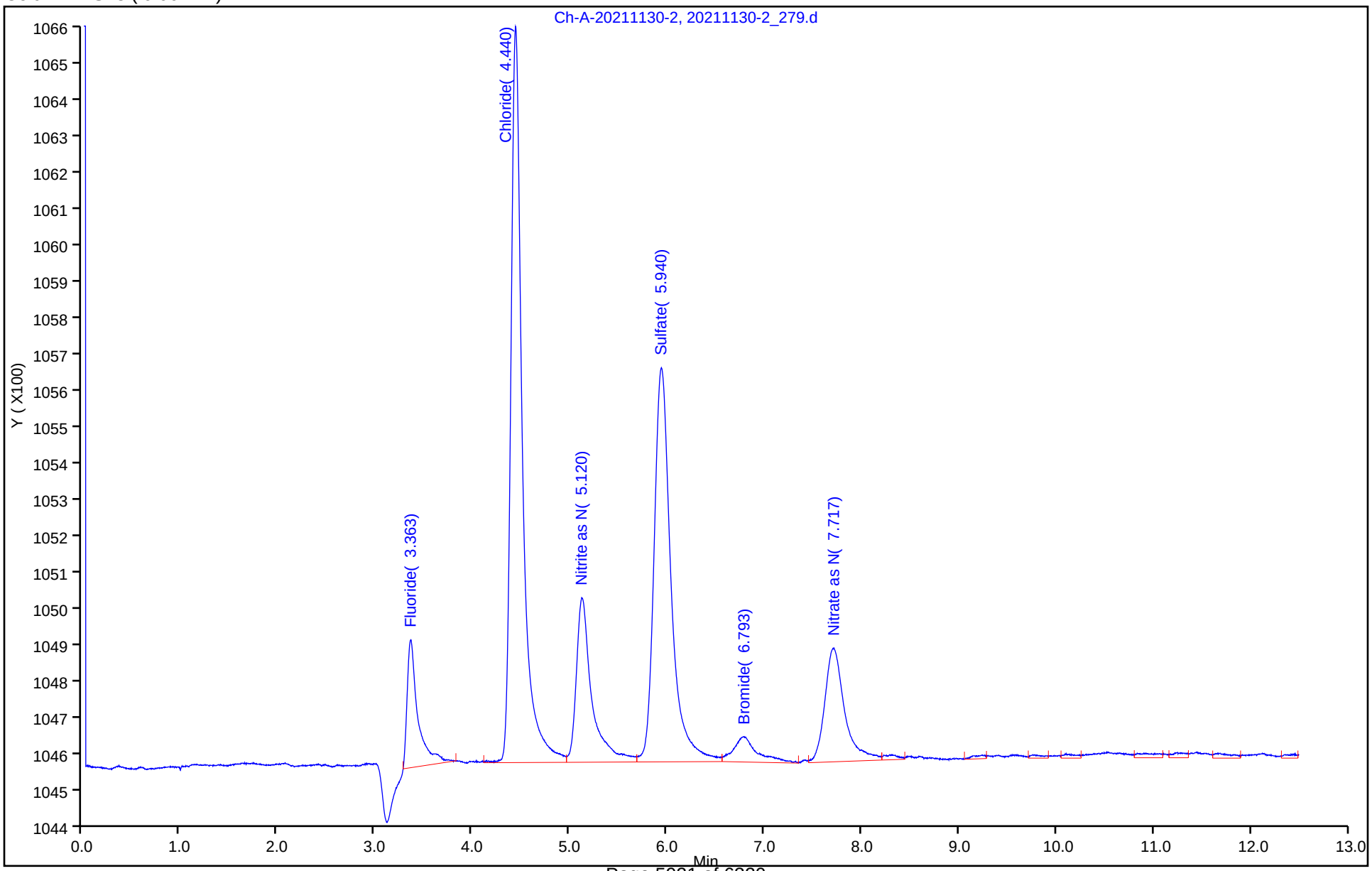
Report Date: 30-Mar-2022 14:56:38 Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_279.d

Injection Date:	29-Mar-2022 10:51:09	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	IC - STD1			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

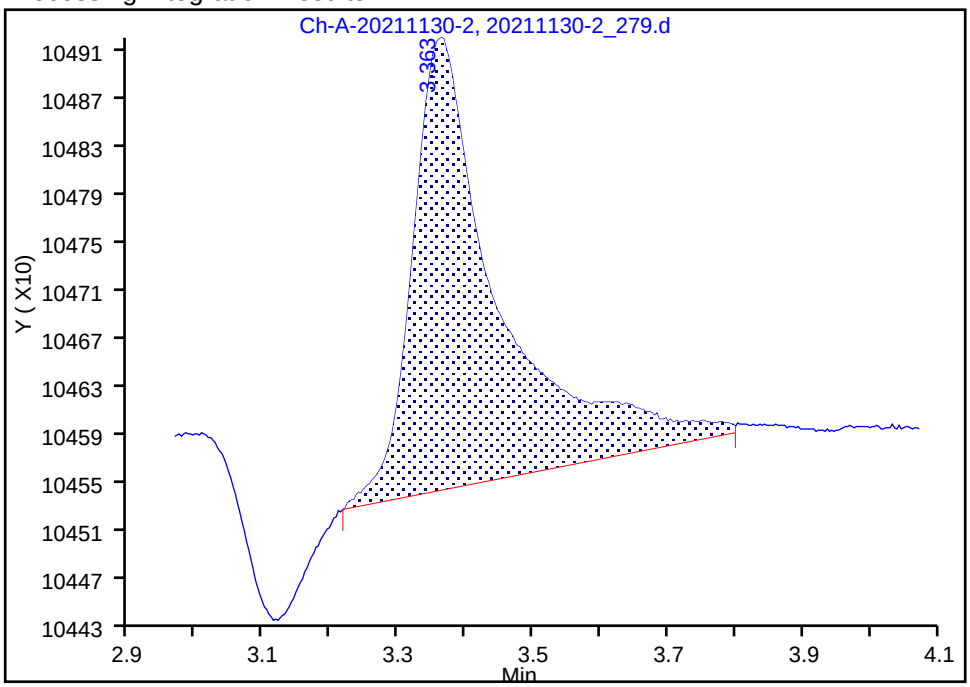
Data File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_279.d
Injection Date: 29-Mar-2022 10:51:09 Instrument ID: IC-2
Lims ID: IC - STD1
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 300.0_28D ICAL
Column: AS18 (0.00 mm) Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

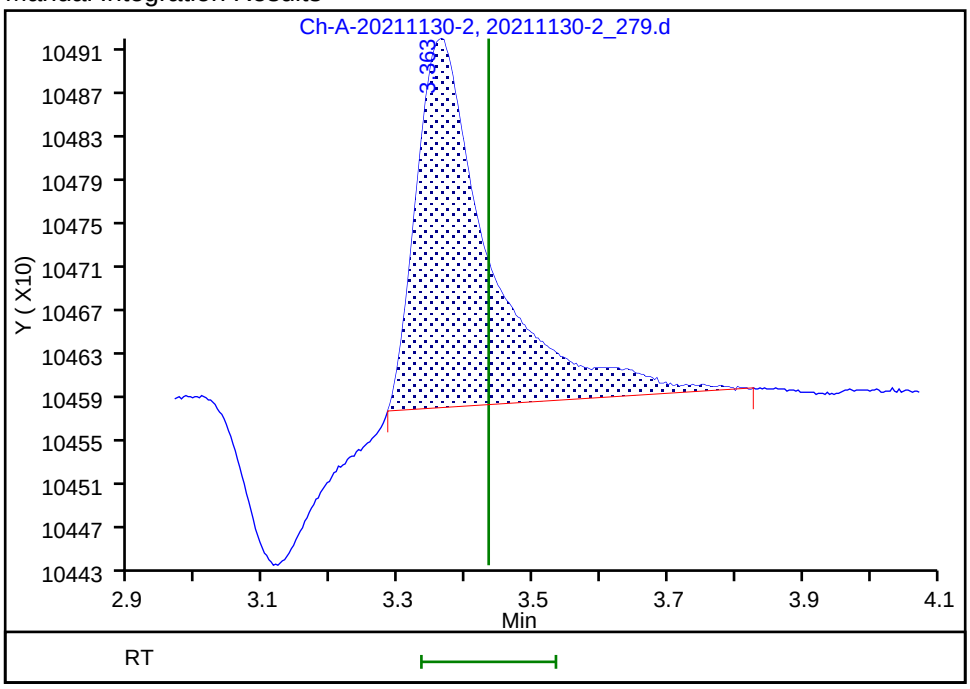
Processing Integration Results

RT: 3.36
Area: 3371
Amount: 0.011521
Amount Units: ng/uL



Manual Integration Results

RT: 3.36
Area: 2567
Amount: 0.048252
Amount Units: ng/uL



Reviewer: zahniseri, 29-Mar-2022 12:37:05
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_280.d
Lims ID: IC - STD2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 29-Mar-2022 11:05:18 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 280
Operator ID: tchrom Instrument ID: IC-2
Sublist: chrom-IC2-300*sub7

Method: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\IC2-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 30-Mar-2022 14:56:39 Calib Date: 29-Mar-2022 12:15:57
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1651

First Level Reviewer: zahniseri Date: 29-Mar-2022 12:37:28

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
3.413	3.433	-0.020	11203	0.2000	0.2248	M
2 Chloride						
4.487	4.487	0.000	63627	2.00	2.13	
3 Nitrite as N						
5.170	5.180	-0.010	16388	NC	NC	
4 Sulfate						
5.983	5.960	0.023	48271	2.00	2.12	
5 Bromide						
6.830	6.837	-0.007	3029	0.2000	0.1962	
6 Nitrate as N						
7.760	7.683	0.077	16654	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

IC_6ANION_STD_00003 Amount Added: 10.00 Units: uL

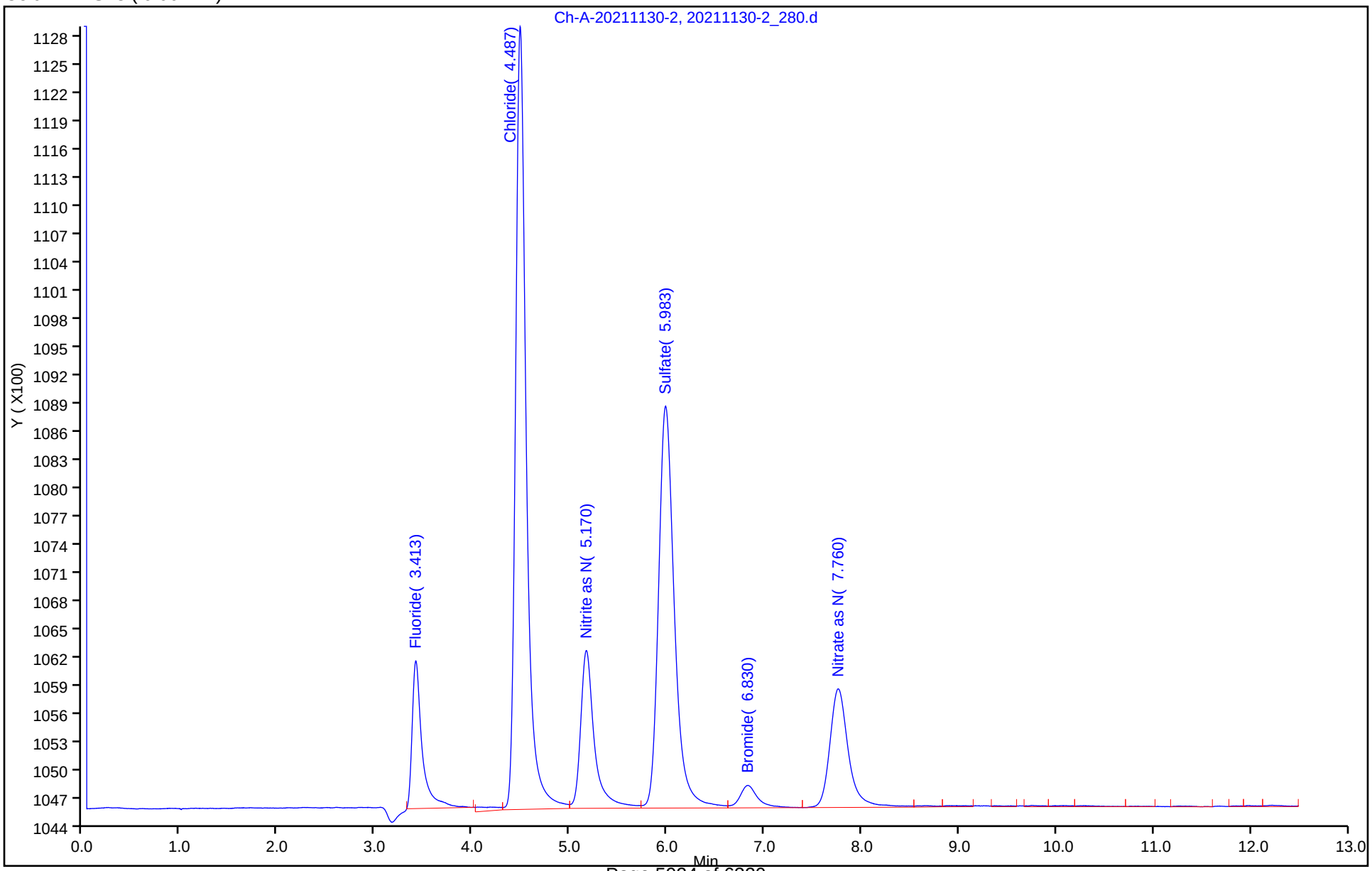
Report Date: 30-Mar-2022 14:56:39 Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_280.d

Injection Date:	29-Mar-2022 11:05:18	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	IC - STD2			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

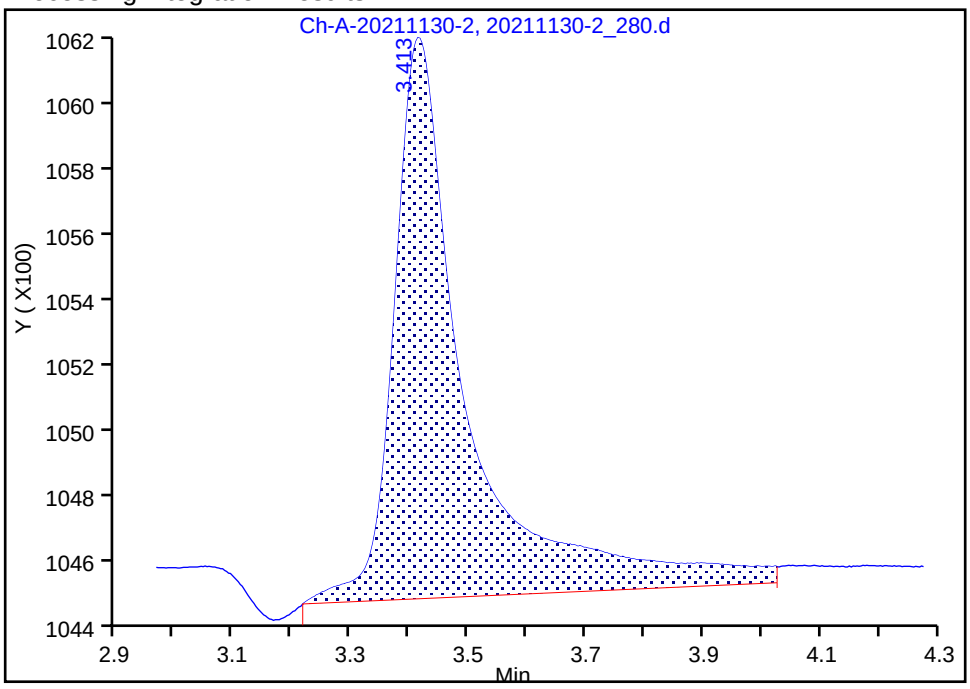
Data File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_280.d
Injection Date: 29-Mar-2022 11:05:18 Instrument ID: IC-2
Lims ID: IC - STD2
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 300.0_28D ICAL
Column: AS18 (0.00 mm) Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

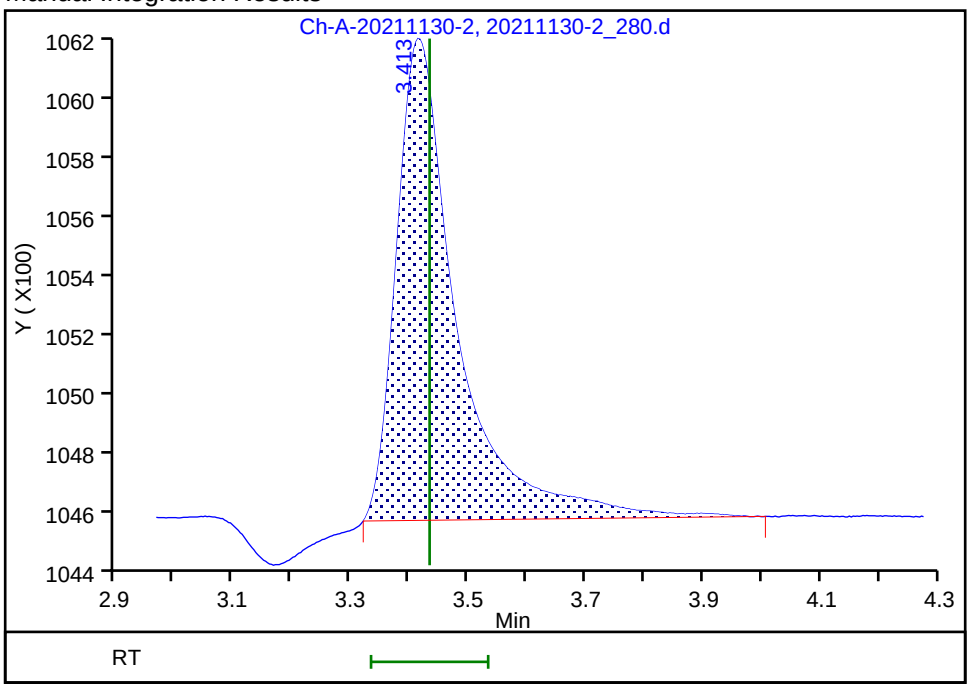
Processing Integration Results

RT: 3.41
Area: 14334
Amount: 0.283942
Amount Units: ng/uL



Manual Integration Results

RT: 3.41
Area: 11203
Amount: 0.224838
Amount Units: ng/uL



Reviewer: zahniseri, 29-Mar-2022 12:37:25
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_281.d
Lims ID: IC - STD3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 29-Mar-2022 11:19:26 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 281
Operator ID: tchrom Instrument ID: IC-2
Sublist: chrom-IC2-300*sub7

Method: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\IC2-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 30-Mar-2022 15:11:34 Calib Date: 29-Mar-2022 12:15:57
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1651

First Level Reviewer: zahniseri Date: 30-Mar-2022 15:11:34

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
3.420	3.433	-0.013	25775	0.5000	0.5228	M
2 Chloride						
4.490	4.487	0.003	148421	5.00	5.03	
3 Nitrite as N						
5.180	5.180	0.000	36564	NC	NC	
4 Sulfate						
5.993	5.960	0.033	114685	5.00	5.16	
5 Bromide						
6.853	6.837	0.016	6937	0.5000	0.4957	
6 Nitrate as N						
7.763	7.683	0.080	38606	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

IC_6ANION_STD_00003 Amount Added: 25.00 Units: uL

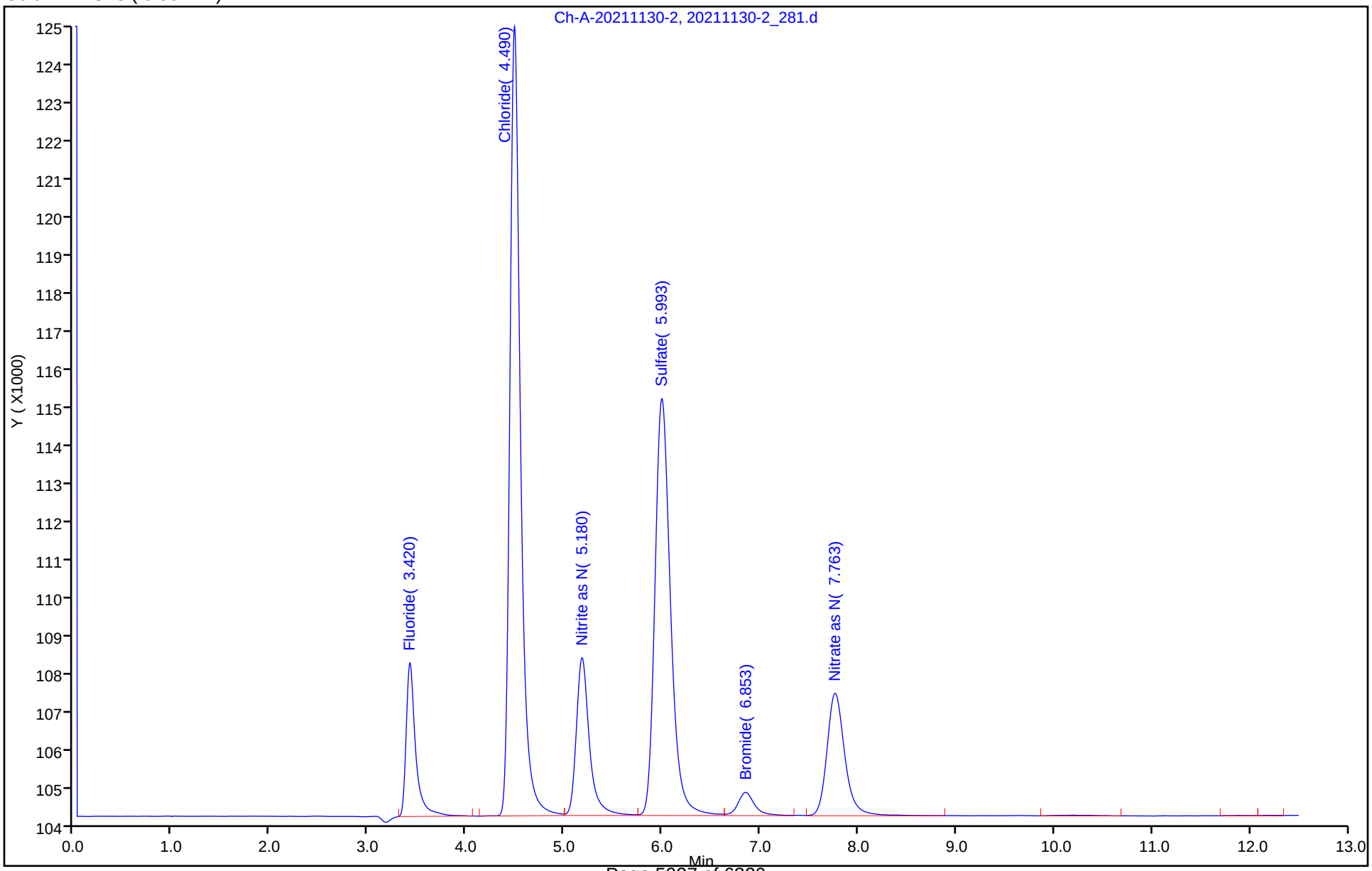
Report Date: 30-Mar-2022 15:11:34 Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_281.d

Injection Date:	29-Mar-2022 11:19:26	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	IC - STD3			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

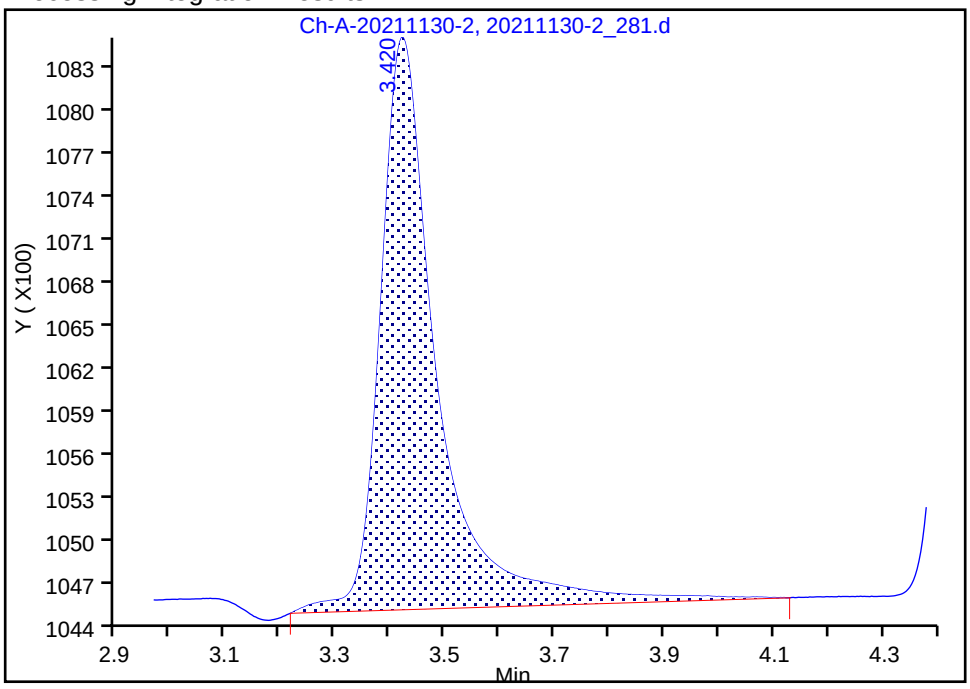
Data File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_281.d
Injection Date: 29-Mar-2022 11:19:26 Instrument ID: IC-2
Lims ID: IC - STD3
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 300.0_28D ICAL
Column: AS18 (0.00 mm) Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

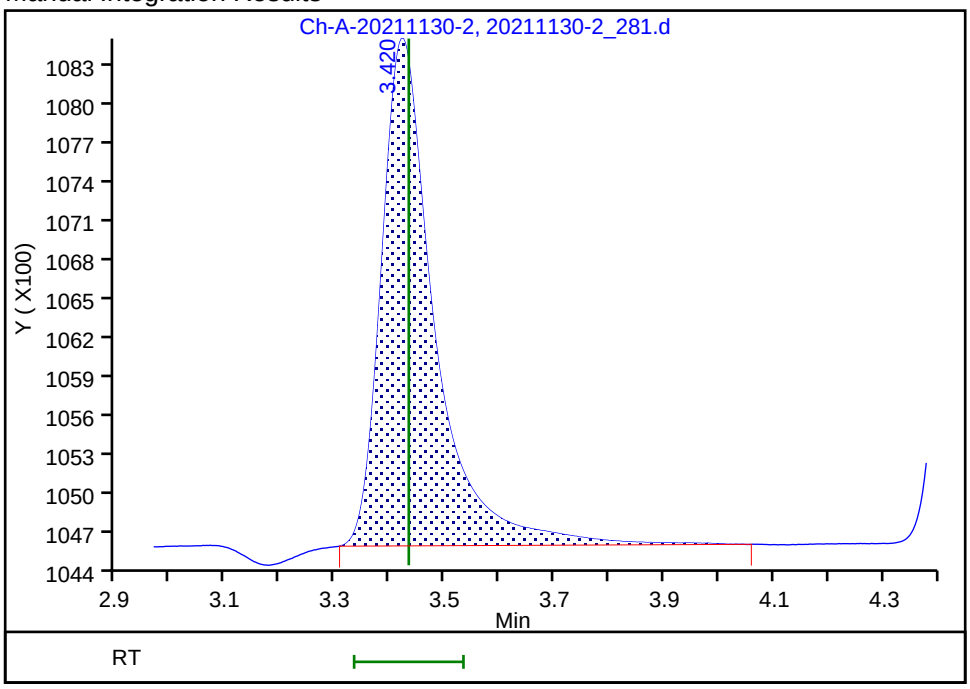
Processing Integration Results

RT: 3.42
Area: 28282
Amount: 0.561260
Amount Units: ng/uL



Manual Integration Results

RT: 3.42
Area: 25775
Amount: 0.522800
Amount Units: ng/uL



Reviewer: zahniseri, 29-Mar-2022 12:37:39
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_282.d
Lims ID: IC - STD4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 29-Mar-2022 11:33:32 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 282
Operator ID: tchrom Instrument ID: IC-2
Sublist: chrom-IC2-300*sub7

Method: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\IC2-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 30-Mar-2022 14:56:40 Calib Date: 29-Mar-2022 12:15:57
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1651

First Level Reviewer: zahniseri Date: 29-Mar-2022 12:37:58

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
3.397	3.433	-0.036	99582	2.00	2.03	M
2 Chloride						
4.470	4.487	-0.017	587380	20.0	20.0	
3 Nitrite as N						
5.157	5.180	-0.023	135664	NC	NC	
4 Sulfate						
5.917	5.960	-0.043	434106	20.0	19.7	
5 Bromide						
6.790	6.837	-0.047	26330	2.00	1.98	
6 Nitrate as N						
7.673	7.683	-0.010	147224	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

IC_6ANION_STD_00003 Amount Added: 100.00 Units: uL

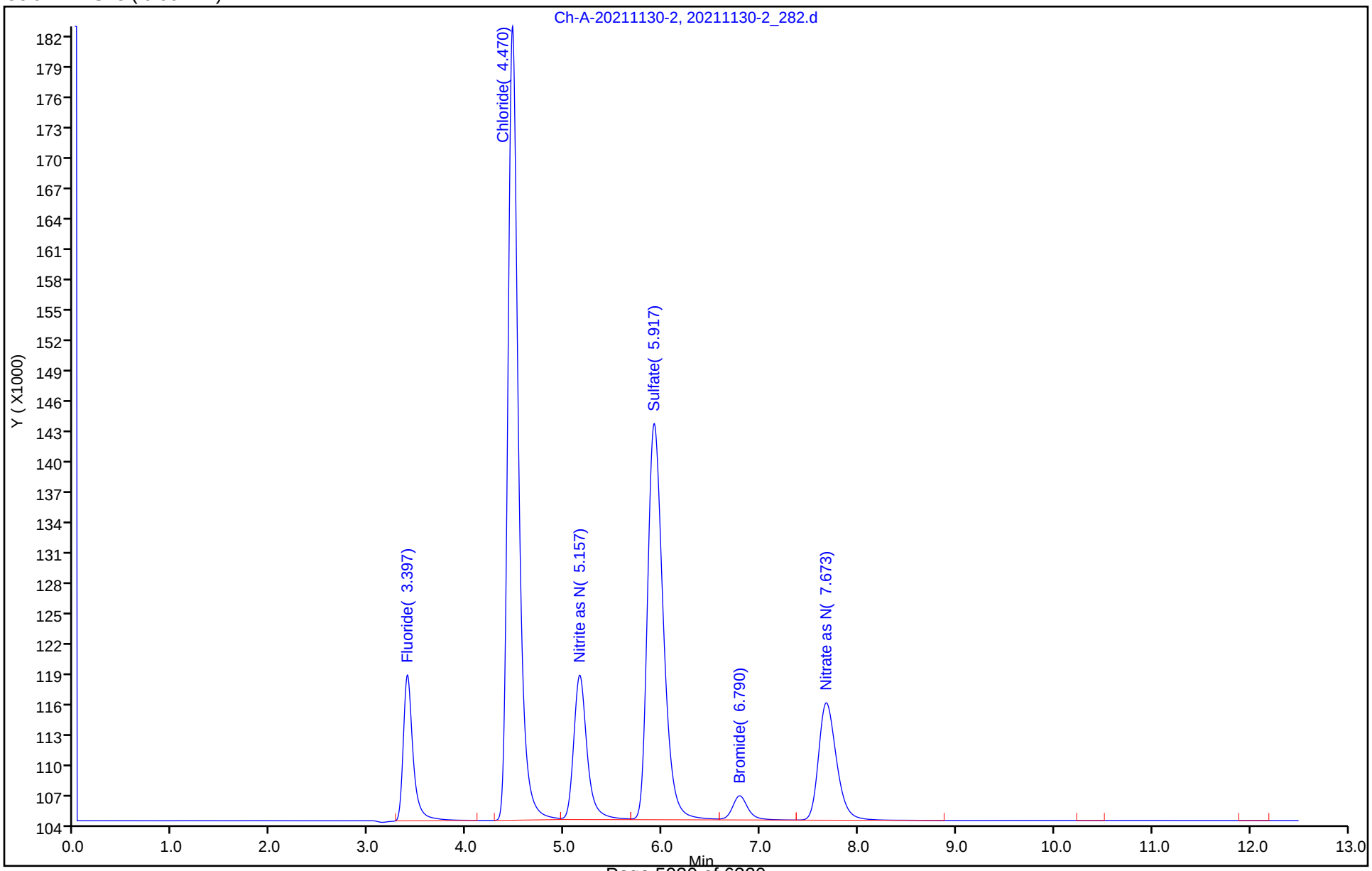
Report Date: 30-Mar-2022 14:56:40 Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_282.d

Injection Date:	29-Mar-2022 11:33:32	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	IC - STD4			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

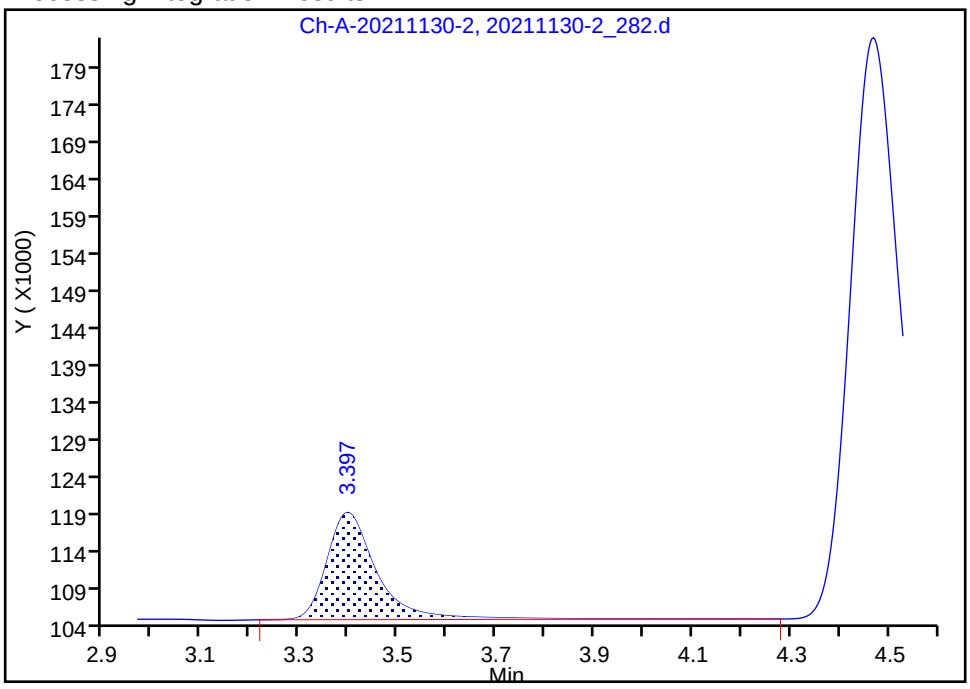
Data File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_282.d
Injection Date: 29-Mar-2022 11:33:32 Instrument ID: IC-2
Lims ID: IC - STD4
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 300.0_28D ICAL
Column: AS18 (0.00 mm) Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

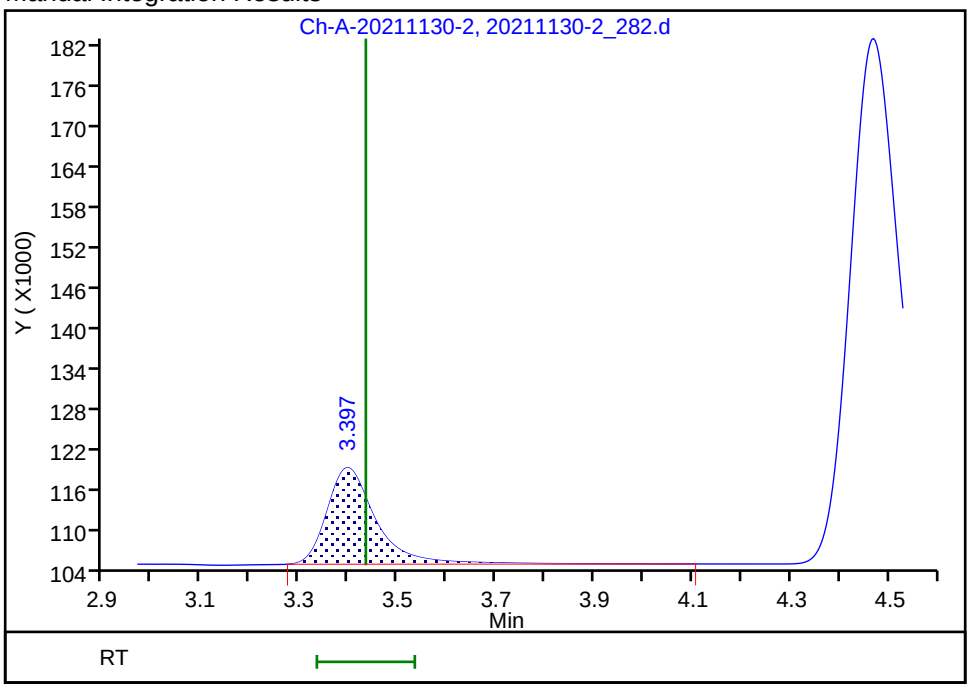
Processing Integration Results

RT: 3.40
Area: 101895
Amount: 2.056222
Amount Units: ng/uL



Manual Integration Results

RT: 3.40
Area: 99582
Amount: 2.031976
Amount Units: ng/uL



Reviewer: zahniseri, 29-Mar-2022 12:37:56
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_283.d
Lims ID: IC - STD5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 29-Mar-2022 11:47:40 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 283
Operator ID: tchrom Instrument ID: IC-2
Sublist: chrom-IC2-300*sub7

Method: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\IC2-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 30-Mar-2022 14:56:41 Calib Date: 29-Mar-2022 12:15:57
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1651

First Level Reviewer: zahniseri Date: 29-Mar-2022 12:22:59

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
3.433	3.433	0.000	230401	5.00	4.71	M
2 Chloride						
4.487	4.487	0.000	1456321	50.0	49.8	
3 Nitrite as N						
5.180	5.180	0.000	326235	NC	NC	
4 Sulfate						
5.960	5.960	0.000	1099577	50.0	50.1	
5 Bromide						
6.837	6.837	0.000	67458	5.00	5.13	
6 Nitrate as N						
7.683	7.683	0.000	370091	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

IC_6ANION_STD_00003 Amount Added: 250.00 Units: uL

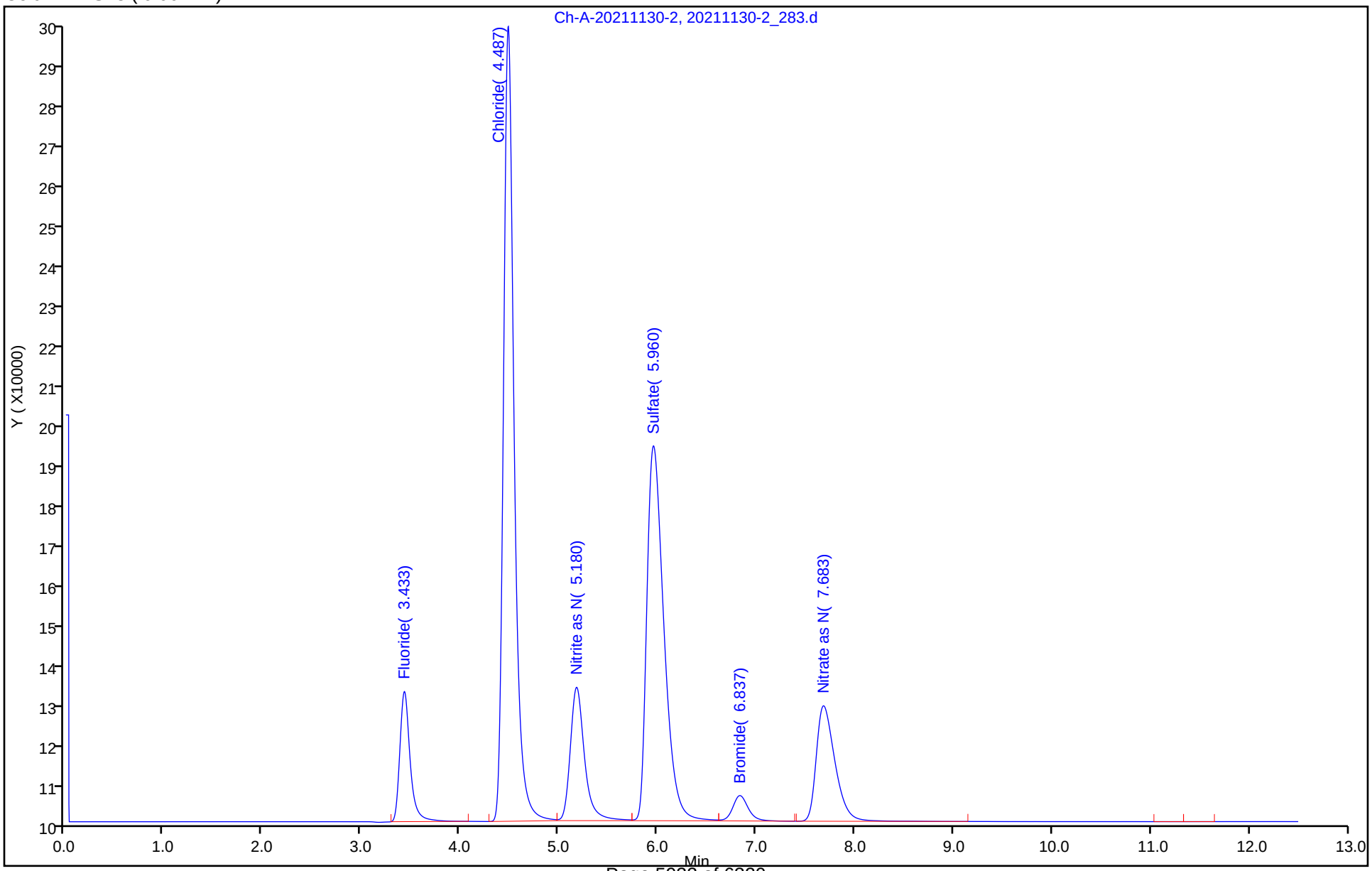
Report Date: 30-Mar-2022 14:56:42 Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_283.d

Injection Date:	29-Mar-2022 11:47:40	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	IC - STD5			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

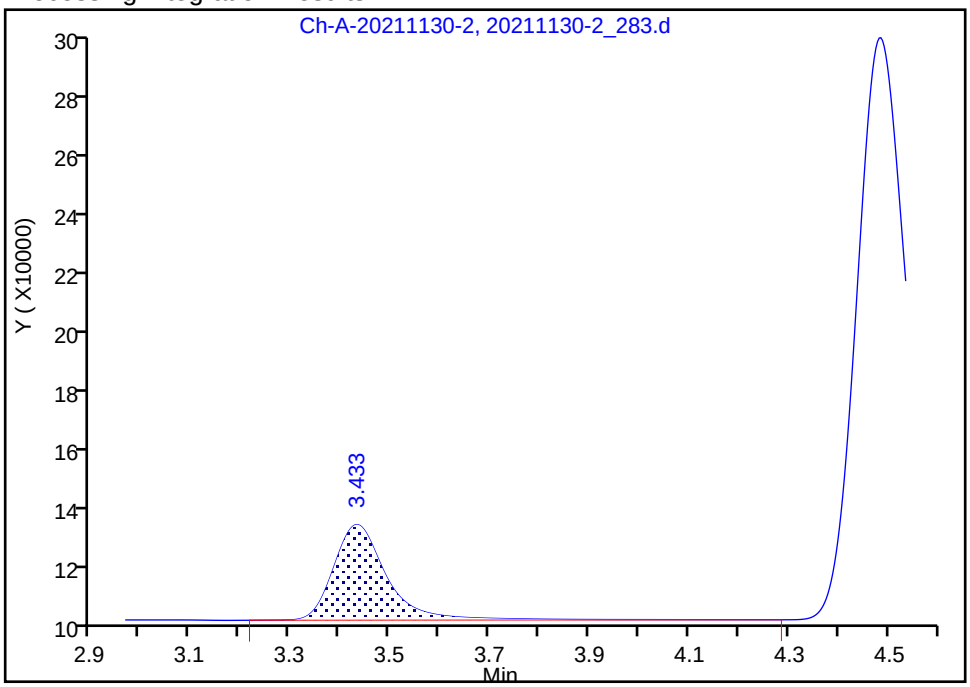
Data File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_283.d
Injection Date: 29-Mar-2022 11:47:40 Instrument ID: IC-2
Lims ID: IC - STD5
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 300.0_28D ICAL
Column: AS18 (0.00 mm) Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

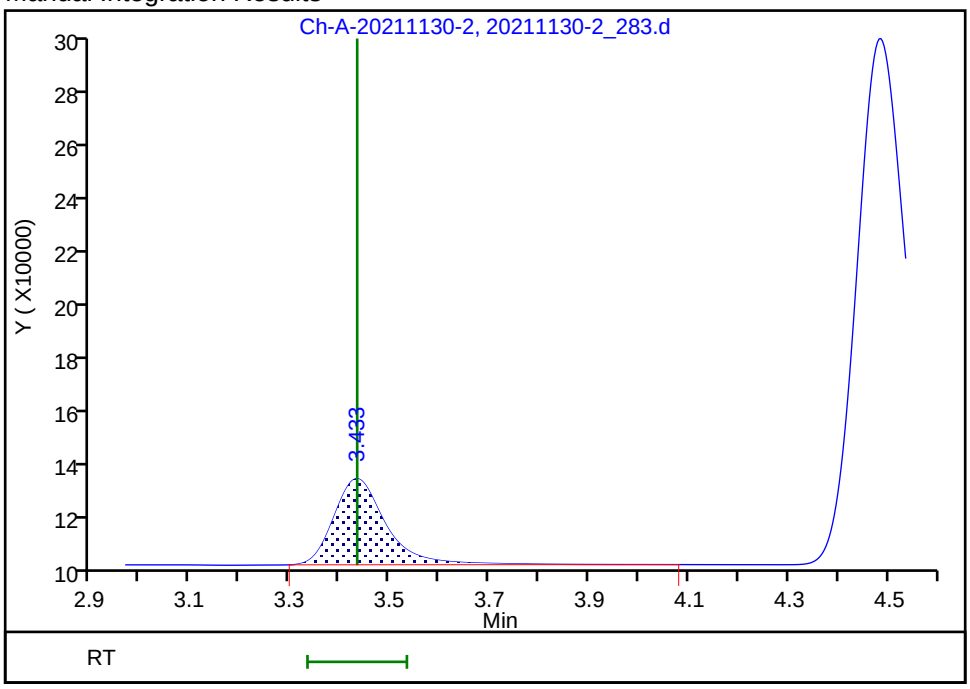
Processing Integration Results

RT: 3.43
Area: 235002
Amount: 4.760813
Amount Units: ng/uL



Manual Integration Results

RT: 3.43
Area: 230401
Amount: 4.706911
Amount Units: ng/uL



Reviewer: zahniseri, 29-Mar-2022 12:38:11
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_284.d
Lims ID: IC - STD6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 29-Mar-2022 12:01:49 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 284
Operator ID: tchrom Instrument ID: IC-2
Sublist: chrom-IC2-300*sub7

Method: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\IC2-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 30-Mar-2022 14:56:43 Calib Date: 29-Mar-2022 12:15:57
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1651

First Level Reviewer: zahniseri Date: 29-Mar-2022 12:38:32

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
3.450	3.433	0.017	444172	10.0	9.08	M
2 Chloride						
4.483	4.487	-0.004	2872040	100.0	98.2	
3 Nitrite as N						
5.147	5.180	-0.033	618863	NC	NC	
4 Sulfate						
5.837	5.960	-0.123	2159278	100.0	98.5	
5 Bromide						
6.790	6.837	-0.047	133385	10.0	10.2	
6 Nitrate as N						
7.610	7.683	-0.073	751590	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

IC_6ANION_STD_00003 Amount Added: 500.00 Units: uL

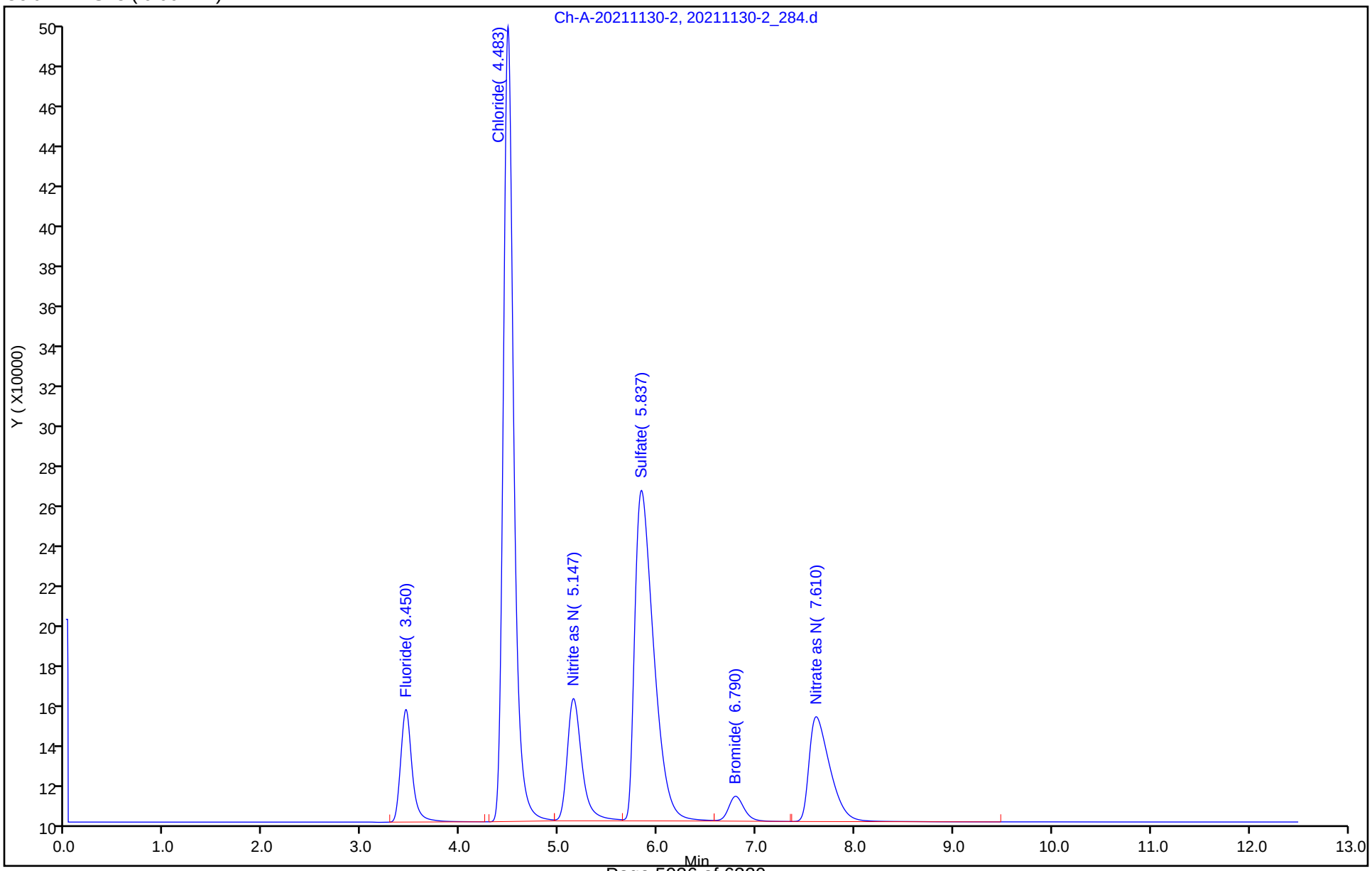
Report Date: 30-Mar-2022 14:56:43 Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_284.d

Injection Date:	29-Mar-2022 12:01:49	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	IC - STD6			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

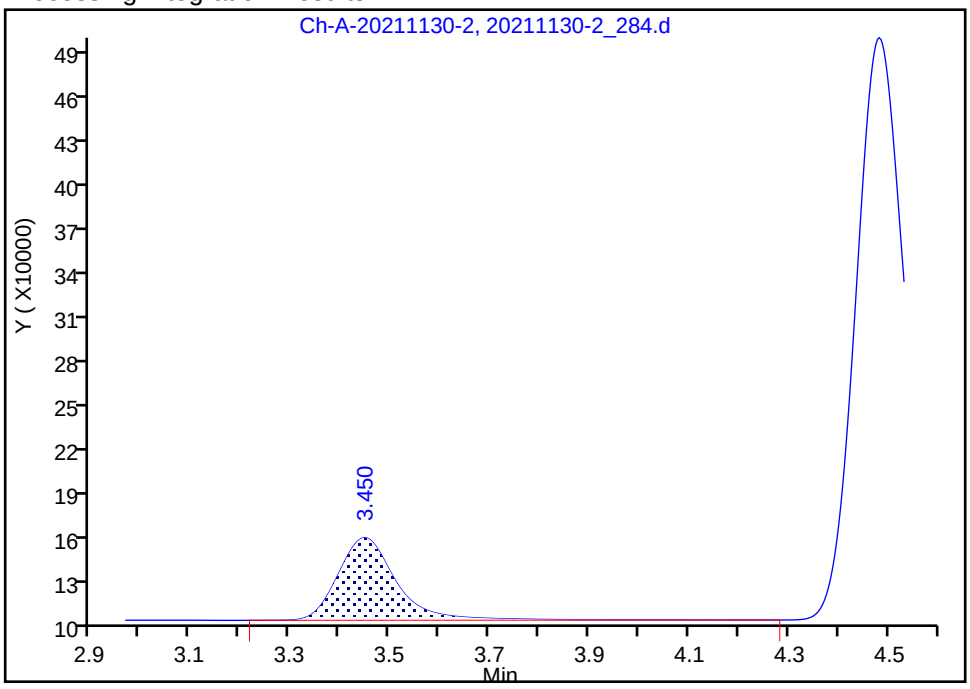
Data File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_284.d
Injection Date: 29-Mar-2022 12:01:49 Instrument ID: IC-2
Lims ID: IC - STD6
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 300.0_28D ICAL
Column: AS18 (0.00 mm) Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

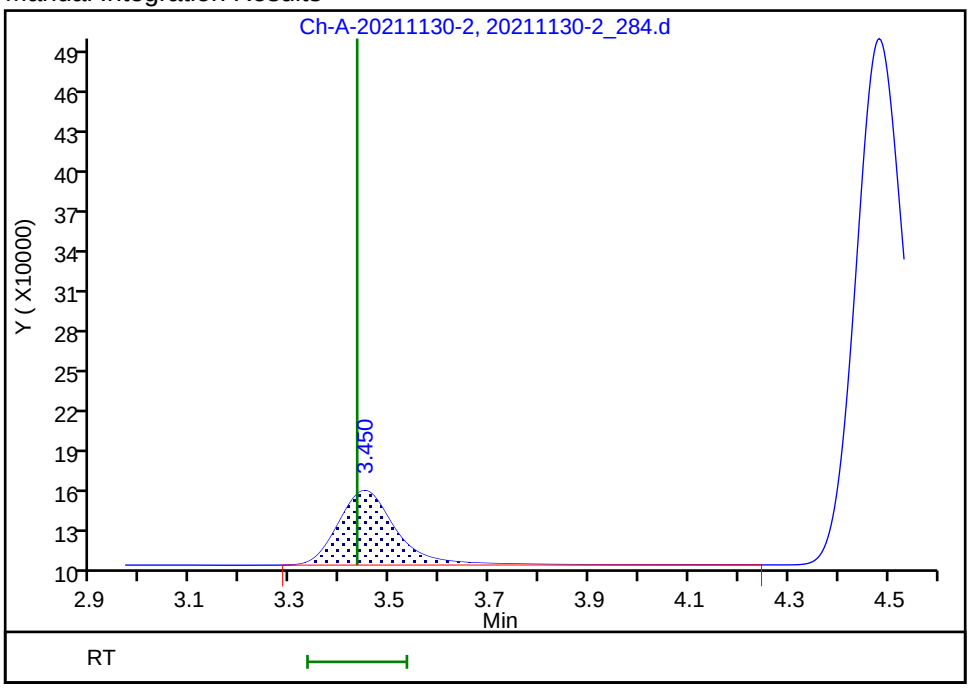
Processing Integration Results

RT: 3.45
Area: 446530
Amount: 9.195883
Amount Units: ng/uL



Manual Integration Results

RT: 3.45
Area: 444172
Amount: 9.078015
Amount Units: ng/uL



Reviewer: zahniseri, 29-Mar-2022 12:38:30
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d
Lims ID: IC - STD7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 29-Mar-2022 12:15:57 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 285
Operator ID: tchrom Instrument ID: IC-2
Sublist: chrom-IC2-300*sub7

Method: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\IC2-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 30-Mar-2022 14:56:45 Calib Date: 29-Mar-2022 12:15:57
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1651

First Level Reviewer: zahniseri Date: 29-Mar-2022 12:50:56

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
3.447	3.433	0.014	808125	20.0	16.5	M
2 Chloride						
4.487	4.487	0.000	5664642	200.0	193.7	
3 Nitrite as N						
5.133	5.180	-0.047	1132388	NC	NC	
4 Sulfate						
5.730	5.960	-0.230	4159418	200.0	189.9	
5 Bromide						
6.750	6.837	-0.087	257730	20.0	19.7	
6 Nitrate as N						
7.507	7.683	-0.176	1477248	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

IC_6ANION_STD_00003 Amount Added: 1000.00 Units: uL

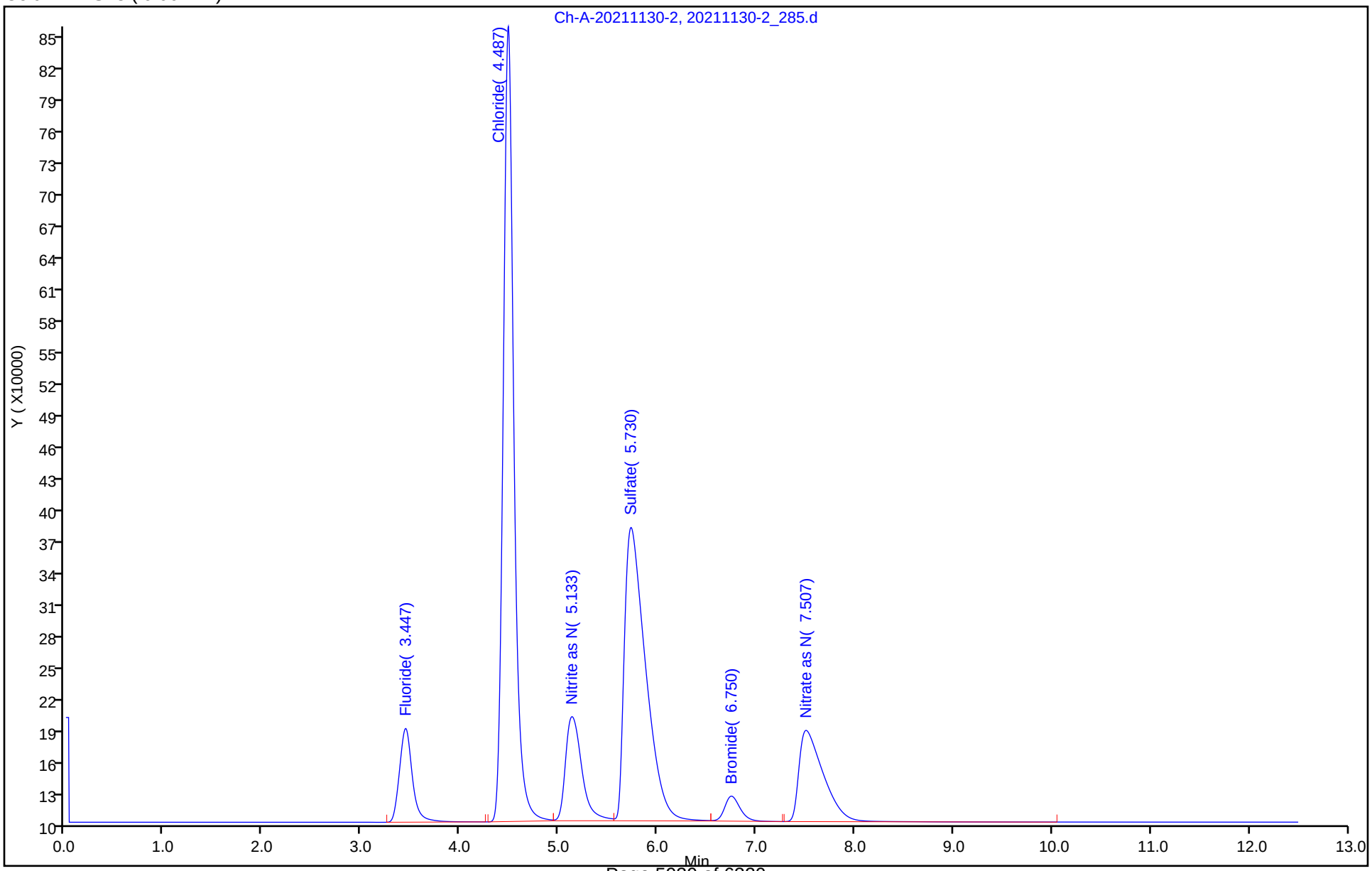
Report Date: 30-Mar-2022 14:56:45 Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d

Injection Date:	29-Mar-2022 12:15:57	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	IC - STD7			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

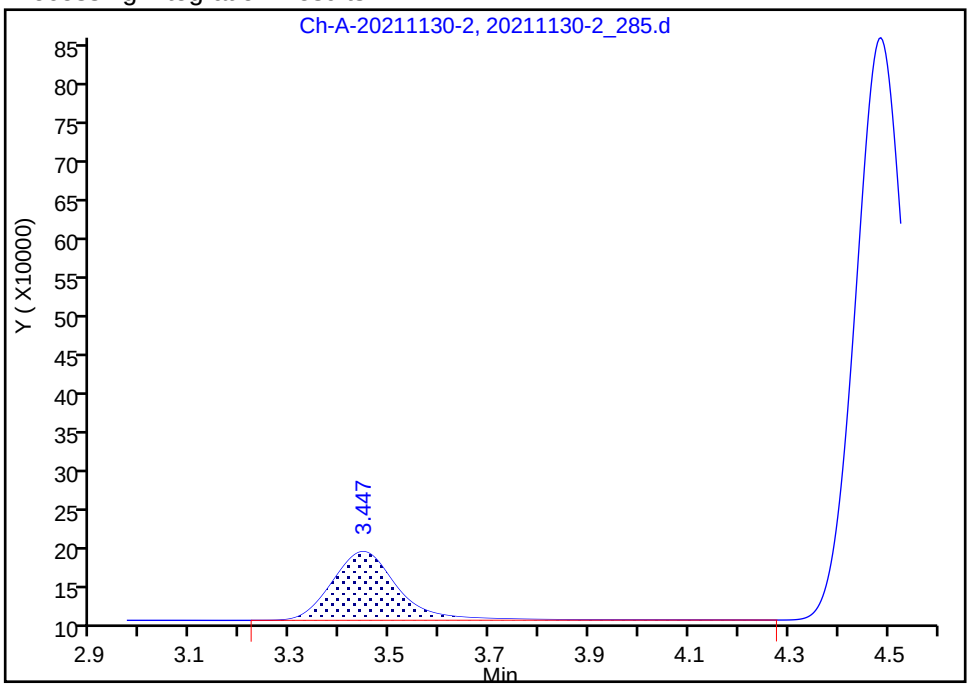
Data File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d
Injection Date: 29-Mar-2022 12:15:57 Instrument ID: IC-2
Lims ID: IC - STD7
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 300.0_28D ICAL
Column: AS18 (0.00 mm) Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

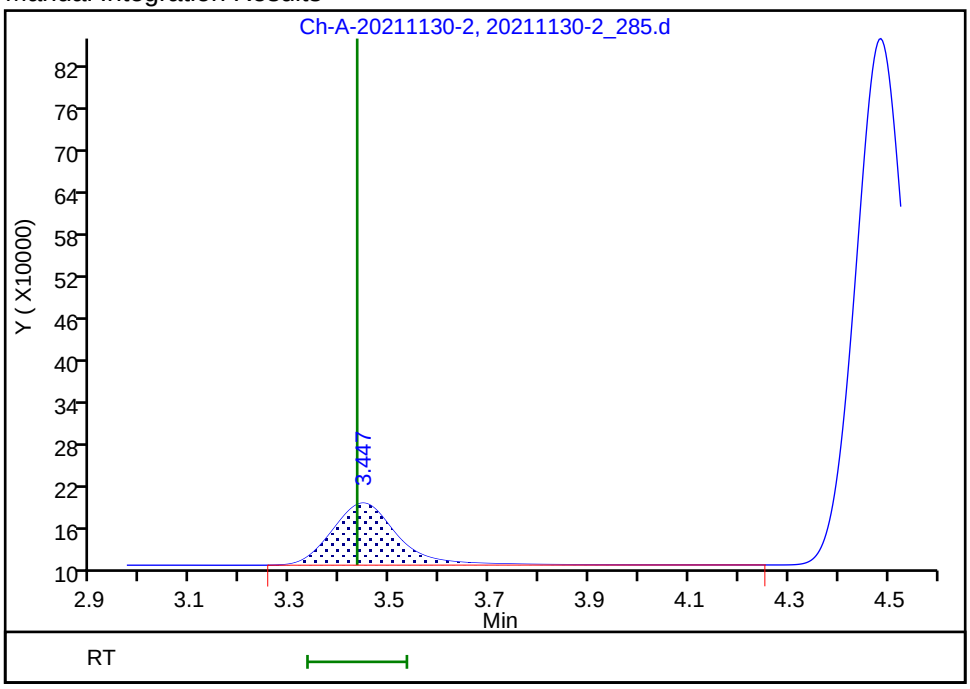
Processing Integration Results

RT: 3.45
Area: 809480
Amount: 16.682084
Amount Units: ng/uL



Manual Integration Results

RT: 3.45
Area: 808125
Amount: 16.519982
Amount Units: ng/uL



Reviewer: zahniseri, 29-Mar-2022 12:38:46
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

TestAmerica *[Buffalo]*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Ion Chromatography Data Review Checklist

LIMS Batch Number: 629883 884	Worklist: 06049	Instrument ID (circle one): IC1 IC2 IC5 IC6 VFA1
Analyst/1st Reviewer:	Method (circle): 300.0, 314.0, 9056, 7199, SM4110, VFA	QC Type (circle): Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)		✓		✓	
2. Elution order of analytes in ICAL confirmed to be correct		✓		✓	
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) |x-intercept| < RL or < ½ RL (314.0 or special projects)		✓		✓	
4. ICV, second source: run before samples 90-110% recovery		✓		✓	If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		✓		✓	If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project)		✓		✓	If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)		✓		✓	If no, list details:
8. Pk Area:Height Difference (314.0 $PD_{A/H}$): Before samples <25%		✓		✓	If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?		✓		✓	Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chroms, date, initial, & reason)		✓		✓	Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project) *If no, list blank ID & explain:*		✓		✓	☐ No analyte > RL in associated samples ☐ Sample results >10x blank ☐ Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) *If no, list LCS ID & explain:*		✓		✓	☐ Insufficient sample for reanalysis ☐ LCS %R > QC limits & samples < RL

7/16/2022

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) *If no, list QC ID & explain:*					insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%					

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified				
b. All crossed out data is initialed and dated				
c. Out of control QC is clearly identified				
d. Any data that has a qualifier tick is commented on with appropriate action taken				
e. The first page of the run includes the filename, instrument, and analyst initials/signature				
16. Run Log				
a. Unused data is clearly identified				
b. All crossed out data is initialed and dated				
c. Analyst initials/signature provided				
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct				
b. Method and matrix are correct				
c. Date and time match raw data				
d. Dilutions are correct				
e. Correct suffix designated (where applicable)				
18. TALS Worksheet Tab is complete and correct				
19. TALS Reagent Tab is complete and correct				
20. TALS QC Links Tab is correct				
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted				
b. All reported analytes are marked Primary or Secondary				
22. TALS Batch Information Screen documentation is complete				
23. TALS Status set to appropriate review level				
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ **Review Date:** 8/16/22

Comments: _____

8/16/22

Eurofins Environment Testing America
Worklist Report

Worklist Name: 2022 06 14 A
Instrument Name: IC-2
Injection Volume: 1.000
Analysis Type: Semi VOA
Batch Directory: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b
Upload Directory: \\CorpTALSAPP17\480-BF-RawData\Organics\MS\IC-2
Batch #s: 629883, 629884, 629885, 629886

Worklist Number: 106049
Chrom Method: IC2-300
Units: ul

6/14/22

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0106049-001	# 1 blank		Client	sv	5.000	mL	1.000
480-0106049-002	# 2 CCV	IC_ANION_LCS__00421	CCV	sv	5.000	mL	1.000
480-0106049-003	# 3 CCB		CCB	sv	5.000	mL	1.000
480-0106049-004	# 4 MB		MB	sv	5.000	mL	1.000
480-0106049-005	# 5 LCS	IC_ANION_LCS__00421	LCS	sv	5.000	mL	1.000
480-0106049-006	# 6 480-198694-C-7		Client	sv	5.000 1mL 5	mL	5.000
480-0106049-007	# 7 480-198694-C-8		Client	sv	5.000	mL	5.000
480-0106049-008	# 8 480-198694-C-9		Client	sv	5.000	mL	5.000
480-0106049-009	# 9 480-198694-C-10		Client	sv	5.000	mL	5.000
480-0106049-010	#10 480-198694-C-11		Client	sv	5.000	mL	5.000
480-0106049-011	#11 480-198719-R-1		Client	sv	5.000	mL	5.000
480-0106049-012	#12 480-198719-R-1 MS	IC_6ANION_STD_00004	MS	sv	5.000	mL	5.000
480-0106049-013	#13 480-198719-R-1 MSD	IC_6ANION_STD_00004	MSD	sv	5.000	mL	5.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0106049-014	#14 CCV	IC_ANION_LCS__00421	CCV	sv	5.000	mL	1.000
480-0106049-015	#15 CCB		CCB	sv	5.000	mL	1.000
480-0106049-016	#16 480-198720-M-1		Client	sv	5.000	mL	1.000
480-0106049-017	#17 480-198720-M-2		Client	sv	5.000	mL	1.000
480-0106049-018	#18 480-198720-M-3		Client	sv	5.000	mL	1.000
480-0106049-019	#19 480-198720-M-4		Client	sv	5.000	mL	1.000
480-0106049-020	#20 480-198723-M-1		Client	sv	5.000 1mL 5	mL	5.000
480-0106049-021	#21 480-198724-C-1		Client	sv	5.000	mL	1.000
480-0106049-022	#22 480-198724-C-2		Client	sv	5.000	mL	1.000
480-0106049-023	#23 480-198724-C-3		Client	sv	5.000	mL	1.000
480-0106049-024	#24 480-198724-C-4		Client	sv	5.000	mL	1.000
480-0106049-025	#25 480-198724-C-4 MS	IC_6ANION_STD_00004	MS	sv	5.000	mL	1.000
480-0106049-026	#26 CCV	IC_ANION_LCS__00421	CCV	sv	5.000	mL	1.000
480-0106049-027	#27 CCB		CCB	sv	5.000	mL	1.000
480-0106049-028	#28 MB		MB	sv	5.000	mL	1.000
480-0106049-029	#29 LCS	IC_ANION_LCS__00421	LCS	sv	5.000	mL	1.000
480-0106049-030	#30 480-198724-C-5		Client	sv	5.000 2.5mL 5	mL	2.000
480-0106049-031	#31 480-198724-C-6		Client	sv	5.000 1mL 5	mL	5.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0106049-032	#32 480-198724-C-7		Client	sv	5.000	mL	5.000
480-0106049-033	#33 480-198724-C-8		Client	sv	5.000	mL	5.000
480-0106049-034	#34 480-198724-C-9		Client	sv	5.000	mL	5.000
480-0106049-035	#35 480-198724-C-10		Client	sv	5.000	mL	2.000
480-0106049-036	#36 480-198724-C-10 MS	IC_6ANION_STD_00004	MS	sv	5.000	mL	2.000
480-0106049-037	#37 480-198724-C-10 MSD	IC_6ANION_STD_00004	MSD	sv	5.000	mL	2.000
480-0106049-038	#38 CCV	IC_ANION_LCS_00421	CCV	sv	5.000	mL	1.000
480-0106049-039	#39 CCB		CCB	sv	5.000	mL	1.000
480-0106049-040	#40 480-198724-C-11		Client	sv	5.000	mL	5.000
480-0106049-041	#41 480-198724-C-12		Client	sv	5.000	mL	5.000
480-0106049-042	#42 480-198724-C-13		Client	sv	5.000	mL	5.000
480-0106049-043	#43 480-198724-C-14		Client	sv	5.000	mL	5.000
480-0106049-044	#44 480-198724-C-15		Client	sv	5.000	mL	5.000
480-0106049-045	#45 480-198724-C-16		Client	sv	5.000	mL	5.000
480-0106049-046	#46 480-198724-C-17		Client	sv	5.000	mL	10.00
480-0106049-047	#47 480-198724-C-18		Client	sv	5.000	mL	1.000
480-0106049-048	#48 480-198724-C-19		Client	sv	5.000	mL	1.000
480-0106049-049	#49 480-198724-C-19 MS	IC_6ANION_STD_00004	MS	sv	5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0106049-050	#50 CCV	IC_ANION_LCS__00421	CCV	sv	5.000	mL	1.000
480-0106049-051	#51 CCB		CCB	sv	5.000	mL	1.000
480-0106049-052	#52 MDLV	IC_6ANION_STD_00004	MDLV	sv	5.000	mL	1.000

TestAmerica *[Buffalo]*

Ion Chromatography Data Review Checklist

LIMS Batch Number: 629883, 884	Worklist: 106049	Instrument ID (circle one): IC1 IC2 IC5 IC6 VFA1
Analyst/1st Reviewer:	Method (circle): 300.0, 314.0, 9056, 7199, SM4110, VFA	QC Type (circle): Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)					
2. Elution order of analytes in ICAL confirmed to be correct					
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) |x-intercept| < RL or < ½ RL (314.0 or special projects)					
4. ICV, second source: run before samples 90-110% recovery					If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)					If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project)					If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)					If no, list details:
8. Pk Area:Height Difference (314.0 $PD_{A/H}$): Before samples <25%					If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?					Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chroms, date, initial, & reason)					Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project) *If no, list blank ID & explain:*					□ No analyte > RL in associated samples □ Sample results >10x blank □ Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) *If no, list LCS ID & explain:*					□ Insufficient sample for reanalysis □ LCS %R > QC limits & samples < RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) *If no, list QC ID & explain:*					□ Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%					

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified				
b. All crossed out data is initialed and dated				
c. Out of control QC is clearly identified				
d. Any data that has a qualifier tick is commented on with appropriate action taken				
e. The first page of the run includes the filename, instrument, and analyst initials/signature				
16. Run Log				
a. Unused data is clearly identified				
b. All crossed out data is initialed and dated				
c. Analyst initials/signature provided				
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct				
b. Method and matrix are correct				
c. Date and time match raw data				
d. Dilutions are correct				
e. Correct suffix designated (where applicable)				
18. TALS Worksheet Tab is complete and correct				
19. TALS Reagent Tab is complete and correct				
20. TALS QC Links Tab is correct				
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted				
b. All reported analytes are marked Primary or Secondary				
22. TALS Batch Information Screen documentation is complete				
23. TALS Status set to appropriate review level				
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ **Review Date:** _____

Comments: _____

Eurofins Environment Testing America
Worklist Report

Worklist Name: 2022 06 14 A
Instrument Name: IC-2
Injection Volume: 1.000
Analysis Type: Semi VOA
Batch Directory: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b
Upload Directory: \\CorpTALSAPP17\480-BF-RawData\Organics\MS\IC-2
Batch #s: 629883, 629884, 629885, 629886

Worklist Number: 106049
Chrom Method: IC2-300
Units: ul

6/14/22

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0106049-001	# 1 blank		Client	sv	5.000	mL	1.000
480-0106049-002	# 2 CCV	IC_ANION_LCS__00421	CCV	sv	5.000	mL	1.000
480-0106049-003	# 3 CCB		CCB	sv	5.000	mL	1.000
480-0106049-004	# 4 MB		MB	sv	5.000	mL	1.000
480-0106049-005	# 5 LCS	IC_ANION_LCS__00421	LCS	sv	5.000	mL	1.000
480-0106049-006	# 6 480-198694-C-7		Client	sv	5.000	mL	5.000
480-0106049-007	# 7 480-198694-C-8		Client	sv	5.000	mL	5.000
480-0106049-008	# 8 480-198694-C-9		Client	sv	5.000	mL	5.000
480-0106049-009	# 9 480-198694-C-10		Client	sv	5.000	mL	5.000
480-0106049-010	#10 480-198694-C-11		Client	sv	5.000	mL	5.000
480-0106049-011	#11 480-198719-R-1		Client	sv	5.000	mL	5.000
480-0106049-012	#12 480-198719-R-1 MS	IC_6ANION_STD_00004	MS	sv	5.000	mL	5.000
480-0106049-013	#13 480-198719-R-1 MSD	IC_6ANION_STD_00004	MSD	sv	5.000	mL	5.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0106049-014	#14 CCV	IC_ANION_LCS__00421	CCV	sv	5.000	mL	1.000
480-0106049-015	#15 CCB		CCB	sv	5.000	mL	1.000
480-0106049-016	#16 480-198720-M-1		Client	sv	5.000	mL	1.000
480-0106049-017	#17 480-198720-M-2		Client	sv	5.000	mL	1.000
480-0106049-018	#18 480-198720-M-3		Client	sv	5.000	mL	1.000
480-0106049-019	#19 480-198720-M-4		Client	sv	5.000	mL	1.000
480-0106049-020	#20 480-198723-M-1		Client	sv	5.000 1mL 5	mL	5.000
480-0106049-021	#21 480-198724-C-1		Client	sv	5.000	mL	1.000
480-0106049-022	#22 480-198724-C-2		Client	sv	5.000	mL	1.000
480-0106049-023	#23 480-198724-C-3		Client	sv	5.000	mL	1.000
480-0106049-024	#24 480-198724-C-4		Client	sv	5.000	mL	1.000
480-0106049-025	#25 480-198724-C-4 MS	IC_6ANION_STD_00004	MS	sv	5.000	mL	1.000
480-0106049-026	#26 CCV	IC_ANION_LCS__00421	CCV	sv	5.000	mL	1.000
480-0106049-027	#27 CCB		CCB	sv	5.000	mL	1.000
480-0106049-028	#28 MB		MB	sv	5.000	mL	1.000
480-0106049-029	#29 LCS	IC_ANION_LCS__00421	LCS	sv	5.000	mL	1.000
480-0106049-030	#30 480-198724-C-5		Client	sv	5.000 2.5mL 5	mL	2.000
480-0106049-031	#31 480-198724-C-6		Client	sv	5.000 1mL 5	mL	5.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0106049-032	#32 480-198724-C-7		Client	sv	5.000	mL	5.000
480-0106049-033	#33 480-198724-C-8		Client	sv	5.000	mL	5.000
480-0106049-034	#34 480-198724-C-9		Client	sv	5.000	mL	5.000
480-0106049-035	#35 480-198724-C-10		Client	sv	5.000	mL	2.000
480-0106049-036	#36 480-198724-C-10 MS	IC_6ANION_STD_00004	MS	sv	5.000	mL	2.000
480-0106049-037	#37 480-198724-C-10 MSD	IC_6ANION_STD_00004	MSD	sv	5.000	mL	2.000
480-0106049-038	#38 CCV	IC_ANION_LCS__00421	CCV	sv	5.000	mL	1.000
480-0106049-039	#39 CCB		CCB	sv	5.000	mL	1.000
480-0106049-040	#40 480-198724-C-11		Client	sv	5.000	mL	5.000
480-0106049-041	#41 480-198724-C-12		Client	sv	5.000	mL	5.000
480-0106049-042	#42 480-198724-C-13		Client	sv	5.000	mL	5.000
480-0106049-043	#43 480-198724-C-14		Client	sv	5.000	mL	5.000
480-0106049-044	#44 480-198724-C-15		Client	sv	5.000	mL	5.000
480-0106049-045	#45 480-198724-C-16		Client	sv	5.000	mL	5.000
480-0106049-046	#46 480-198724-C-17		Client	sv	5.000	mL	10.00
480-0106049-047	#47 480-198724-C-18		Client	sv	5.000	mL	1.000
480-0106049-048	#48 480-198724-C-19		Client	sv	5.000	mL	1.000
480-0106049-049	#49 480-198724-C-19 MS	IC_6ANION_STD_00004	MS	sv	5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0106049-050	#50 CCV	IC_ANION_LCS__00421	CCV	sv	5.000	mL	1.000
480-0106049-051	#51 CCB		CCB	sv	5.000	mL	1.000
480-0106049-052	#52 MDLV	IC_6ANION_STD_00004	MDLV	sv	5.000	mL	1.000

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\20220521-2_297.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 14-Jun-2022 13:53:06 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 297
Operator ID: tchrom Instrument ID: IC-2
Sublist: chrom-IC2-300*sub7

Method: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\IC2-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 15-Jun-2022 14:08:18 Calib Date: 29-Mar-2022 12:15:57
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1681

First Level Reviewer: zahniseri Date: 15-Jun-2022 14:05:29

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.537	3.537	0.000	236174	5.01	4.82	
2 Chloride						
4.473	4.473	0.000	1413323	50.1	48.3	
3 Nitrite as N						
5.067	5.067	0.000	285704	NC	NC	
4 Sulfate						
5.483	5.483	0.000	1063822	50.0	48.5	
5 Bromide						
6.497	6.497	0.000	61242	5.01	4.66	
6 Nitrate as N						
7.210	7.210	0.000	359890	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00421 Amount Added: 5.00 Units: mL

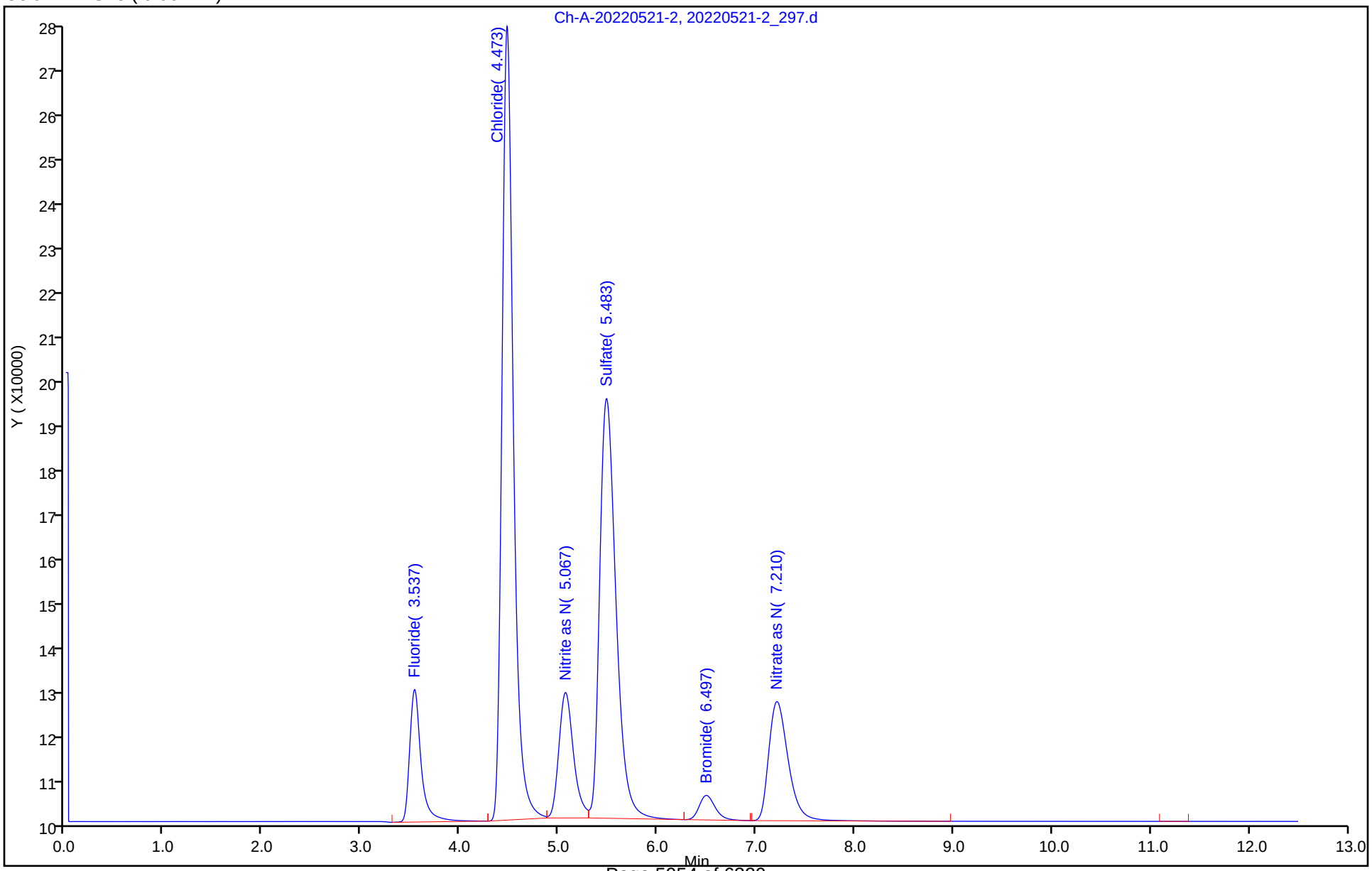
Report Date: 15-Jun-2022 14:08:18 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\20220521-2_297.d

Injection Date:	14-Jun-2022 13:53:06	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	CCV			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\20220521-2_298.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 14-Jun-2022 14:07:14 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 298
Operator ID: tchrom Instrument ID: IC-2

Method: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\IC2-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 15-Jun-2022 14:08:18 Calib Date: 29-Mar-2022 12:15:57
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1681

First Level Reviewer: zahniseri Date: 15-Jun-2022 14:05:33

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						
4.507	4.473	0.034	6322		0.1647	
3 Nitrite as N						
5.087	5.067	0.020	6946		NC	
4 Sulfate						
5.543	5.483	0.060	6454		0.2131	
6 Nitrate as N						
7.280	7.210	0.070	1040		NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

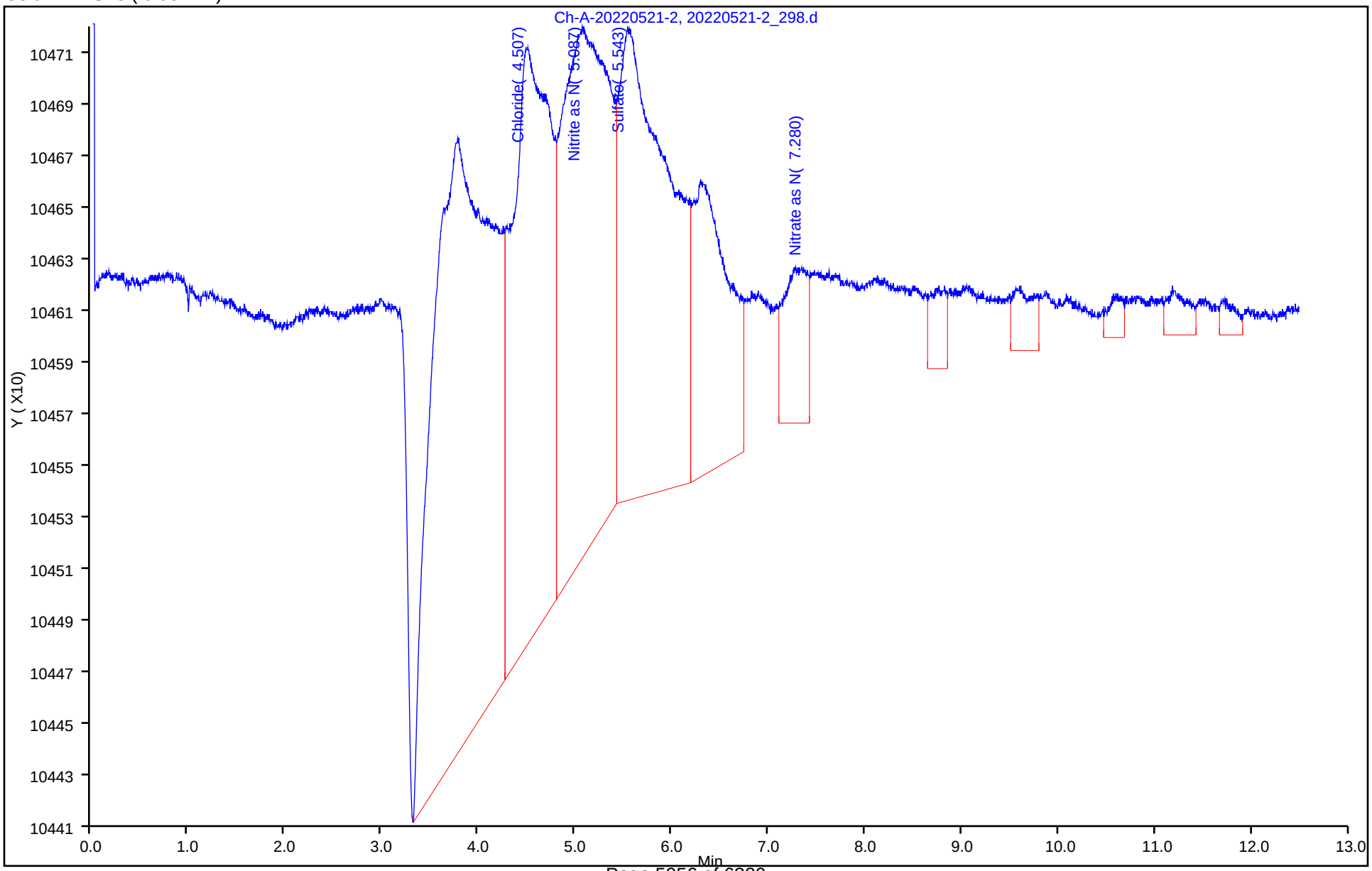
Report Date: 15-Jun-2022 14:08:19 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\20220521-2_298.d

Injection Date:	14-Jun-2022 14:07:14	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	CCB			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\20220521-2_299.d				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	14-Jun-2022 14:21:20	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 299				
Operator ID:	tchrom	Instrument ID:	IC-2		
Method:	\\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\IC2-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	15-Jun-2022 14:08:18	Calib Date:	29-Mar-2022 12:15:57		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1681				

First Level Reviewer: zahniseri Date: 15-Jun-2022 14:05:36

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						
4.500	4.473	0.027	3828		0.0794	
3 Nitrite as N						
5.097	5.067	0.030	2151		NC	
4 Sulfate						
5.530	5.483	0.047	3825		0.0931	
6 Nitrate as N						
7.287	7.210	0.077	2733		NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

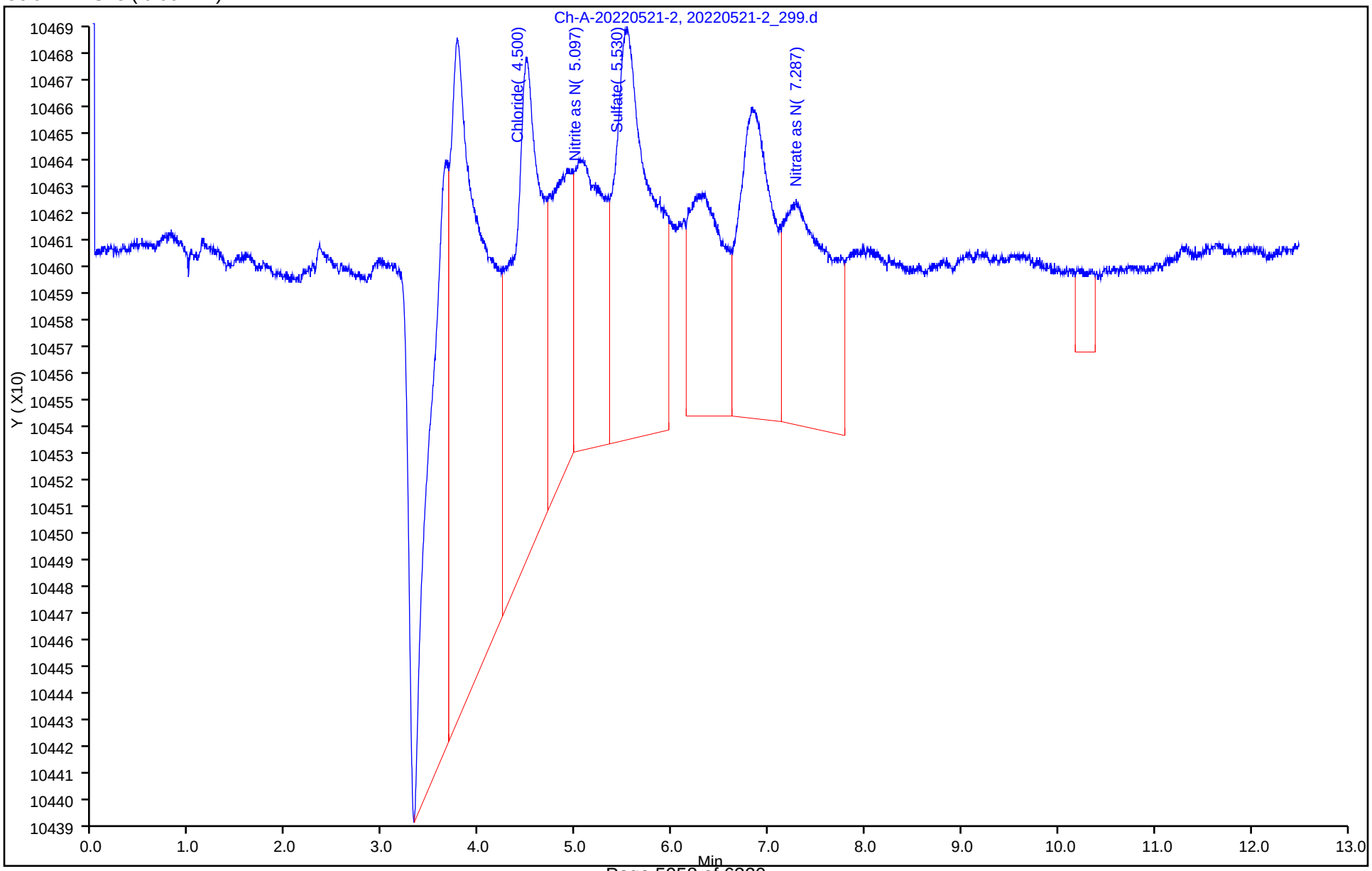
Report Date: 15-Jun-2022 14:08:20 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\20220521-2_299.d

Injection Date:	14-Jun-2022 14:21:20	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	MB			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\20220521-2_300.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 14-Jun-2022 14:35:29 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 300
Operator ID: tchrom Instrument ID: IC-2

Method: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\IC2-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 15-Jun-2022 14:08:18 Calib Date: 29-Mar-2022 12:15:57
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1681

First Level Reviewer: zahniseri Date: 15-Jun-2022 14:05:39

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.543	3.537	0.006	238479	5.01	4.87	
2 Chloride						
4.477	4.473	0.004	1413694	50.1	48.3	
3 Nitrite as N						
5.067	5.067	0.000	284120	NC	NC	
4 Sulfate						
5.470	5.483	-0.013	1067227	50.0	48.7	
5 Bromide						
6.487	6.497	-0.010	61225	5.01	4.66	
6 Nitrate as N						
7.200	7.210	-0.010	359876	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00421 Amount Added: 5.00 Units: mL

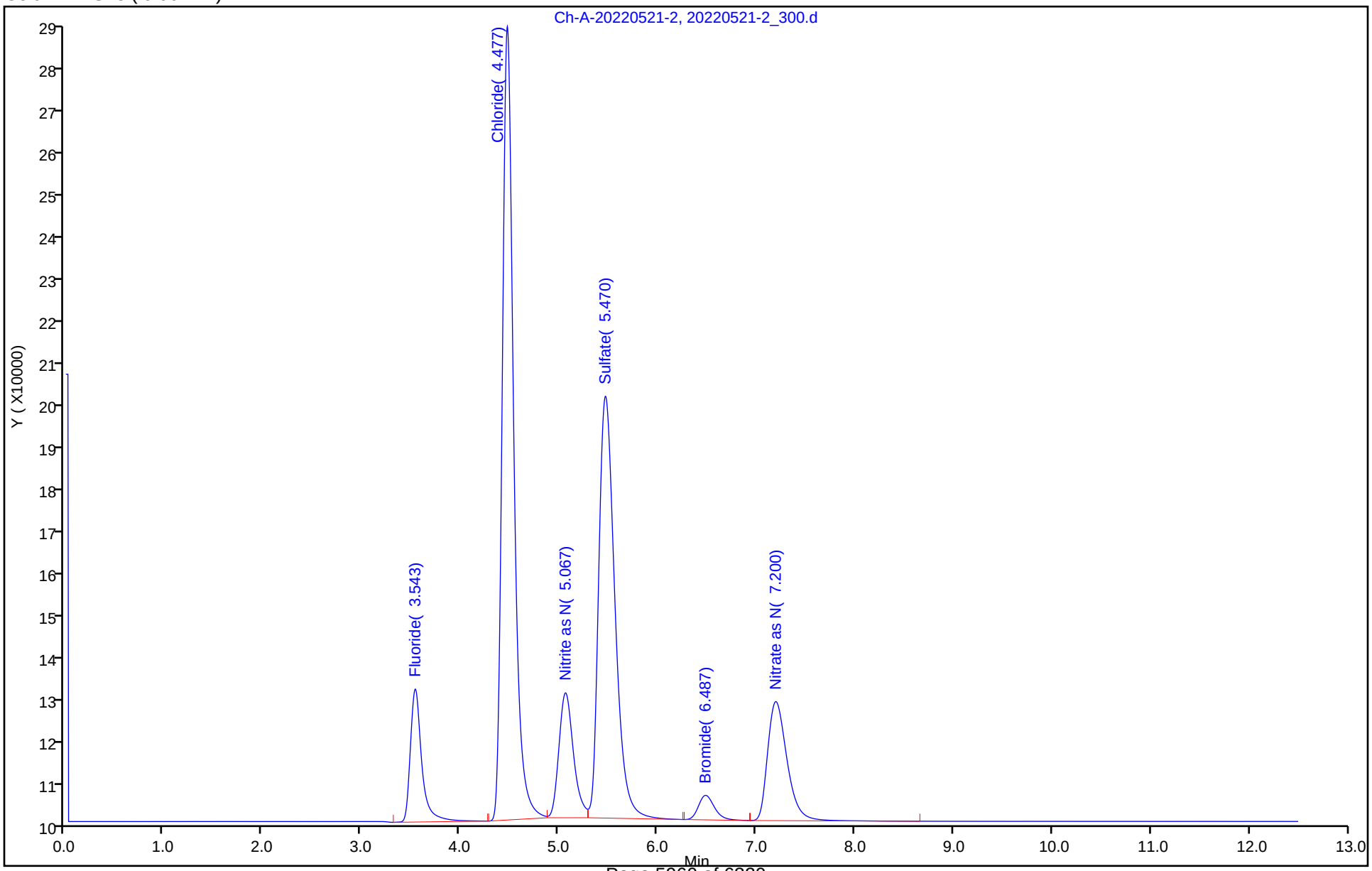
Report Date: 15-Jun-2022 14:08:21 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\20220521-2_300.d

Injection Date:	14-Jun-2022 14:35:29	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	LCS			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\20220521-2_309.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 14-Jun-2022 16:42:45 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 309
Operator ID: tchrom Instrument ID: IC-2
Sublist: chrom-IC2-300*sub7

Method: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\IC2-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 15-Jun-2022 14:08:24 Calib Date: 29-Mar-2022 12:15:57
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1681

First Level Reviewer: zahniseri Date: 15-Jun-2022 14:06:07

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.530	3.530	0.000	236836	5.01	4.84	
2 Chloride						
4.463	4.463	0.000	1421037	50.1	48.6	
3 Nitrite as N						
5.053	5.053	0.000	288176	NC	NC	
4 Sulfate						
5.463	5.463	0.000	1066321	50.0	48.6	
5 Bromide						
6.480	6.480	0.000	61400	5.01	4.67	
6 Nitrate as N						
7.193	7.193	0.000	361584	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00421 Amount Added: 5.00 Units: mL

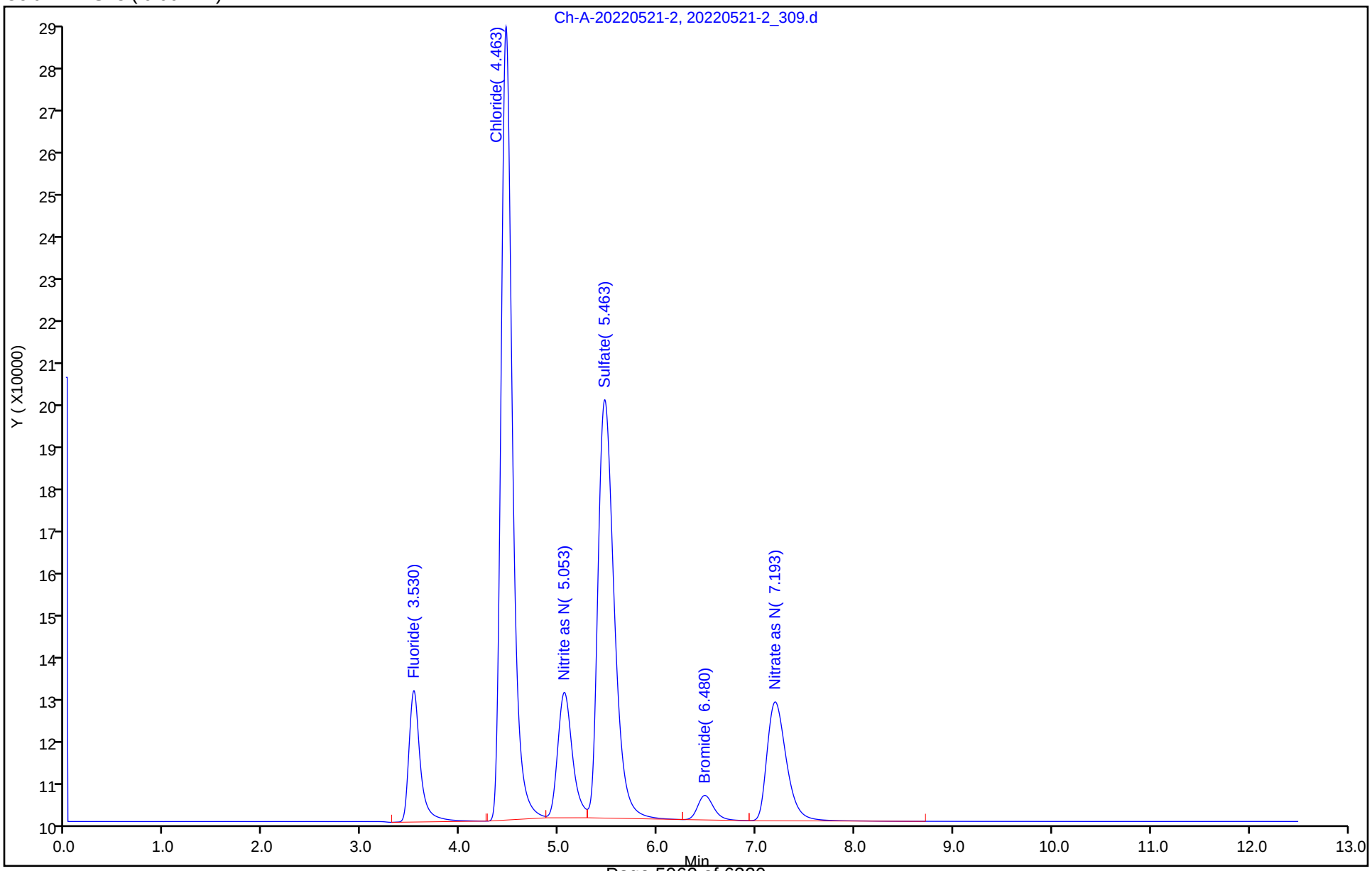
Report Date: 15-Jun-2022 14:08:25 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\20220521-2_309.d

Injection Date:	14-Jun-2022 16:42:45	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	CCV			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\20220521-2_310.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 14-Jun-2022 16:56:53 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 310
Operator ID: tchrom Instrument ID: IC-2

Method: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\IC2-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 15-Jun-2022 14:08:24 Calib Date: 29-Mar-2022 12:15:57
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1681

First Level Reviewer: zahniseri Date: 15-Jun-2022 14:06:10

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.620	3.530	0.090	2934		0.0558	
2 Chloride						
4.477	4.463	0.014	4918		0.1167	
3 Nitrite as N						
5.077	5.053	0.024	5956		NC	
4 Sulfate						
5.537	5.463	0.074	6414		0.2113	
6 Nitrate as N						
7.307	7.193	0.114	2246		NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

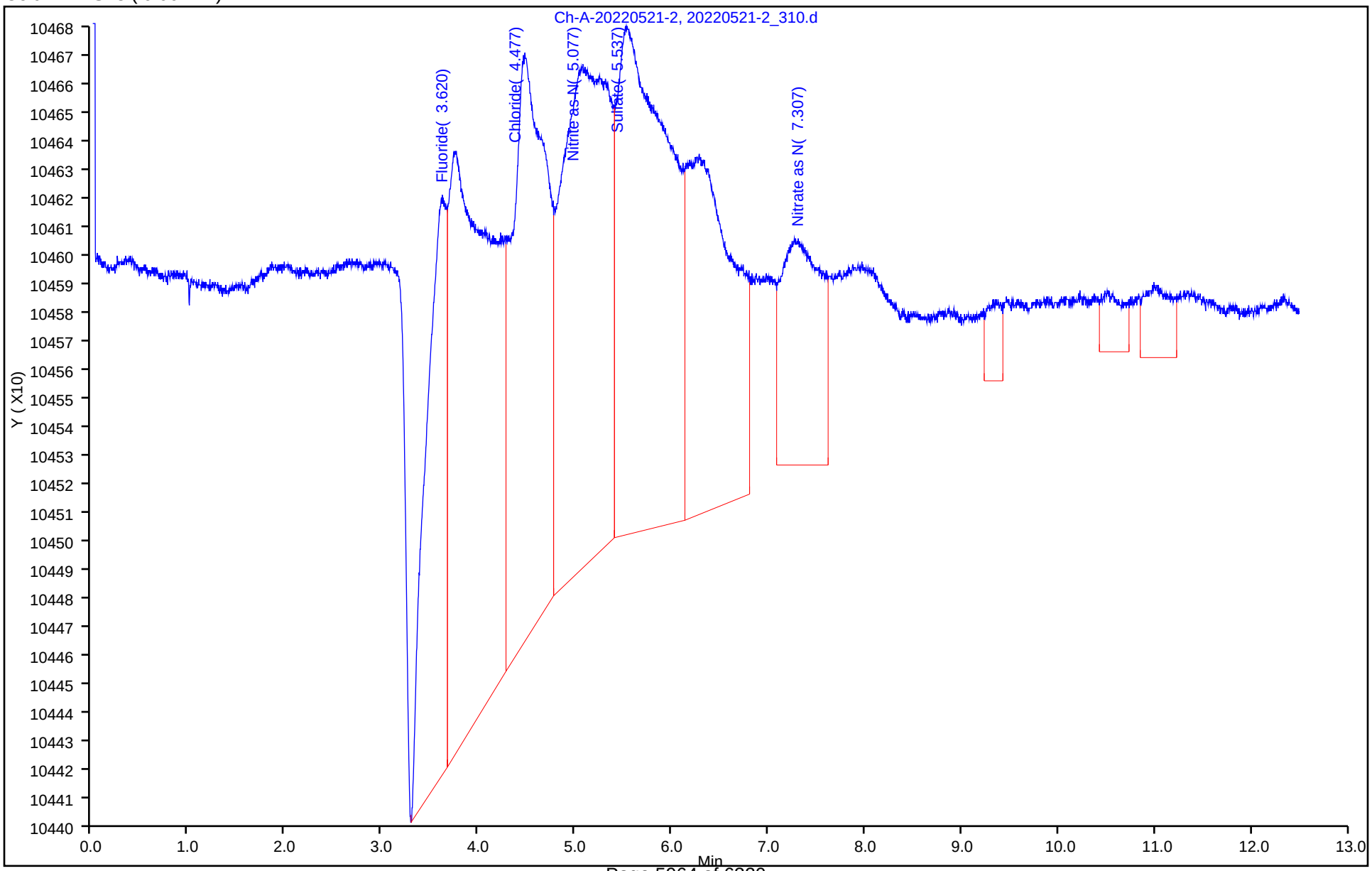
Report Date: 15-Jun-2022 14:08:26 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\20220521-2_310.d

Injection Date:	14-Jun-2022 16:56:53	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	CCB			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\20220521-2_311.d				
Lims ID:	480-198720-M-1				
Client ID:	CD-1				
Sample Type:	Client				
Inject. Date:	14-Jun-2022 17:11:02	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 311				
Operator ID:	tchrom	Instrument ID:	IC-2		
Method:	\\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\IC2-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	15-Jun-2022 14:08:24	Calib Date:	29-Mar-2022 12:15:57		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1681				
First Level Reviewer: zahniseri		Date:	15-Jun-2022 14:06:14		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

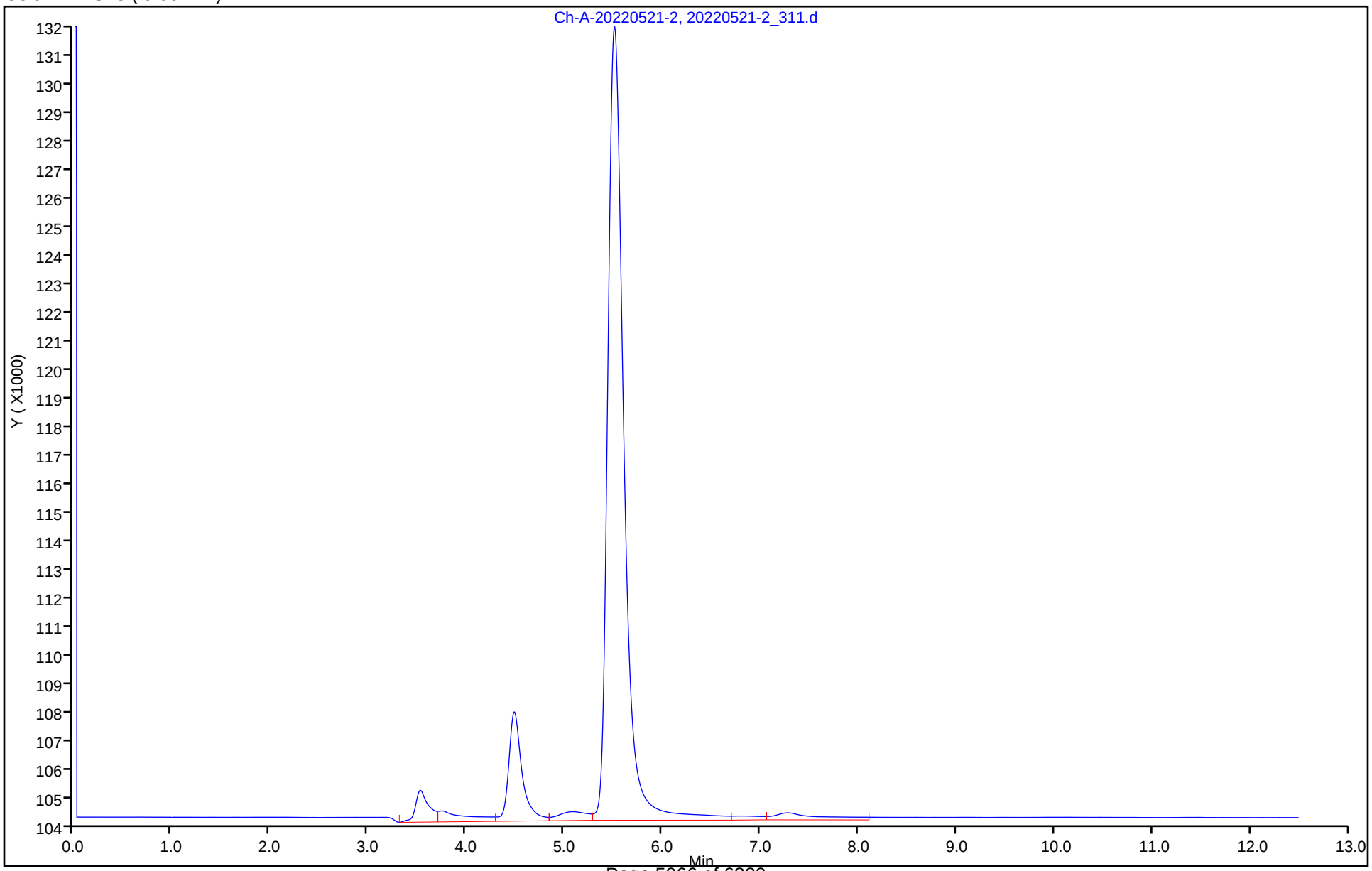
Report Date: 15-Jun-2022 14:08:26 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\20220521-2_311.d

Injection Date:	14-Jun-2022 17:11:02	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	480-198720-M-1	Lab Sample ID:	480-198720-1	Worklist Smp#:	16
Client ID:	CD-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\20220521-2_312.d				
Lims ID:	480-198720-M-2				
Client ID:	CD-1RA				
Sample Type:	Client				
Inject. Date:	14-Jun-2022 17:25:10	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 312				
Operator ID:	tchrom	Instrument ID:	IC-2		
Method:	\\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\IC2-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	15-Jun-2022 14:08:24	Calib Date:	29-Mar-2022 12:15:57		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1681				
First Level Reviewer: zahniseri		Date:	15-Jun-2022 14:06:17		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

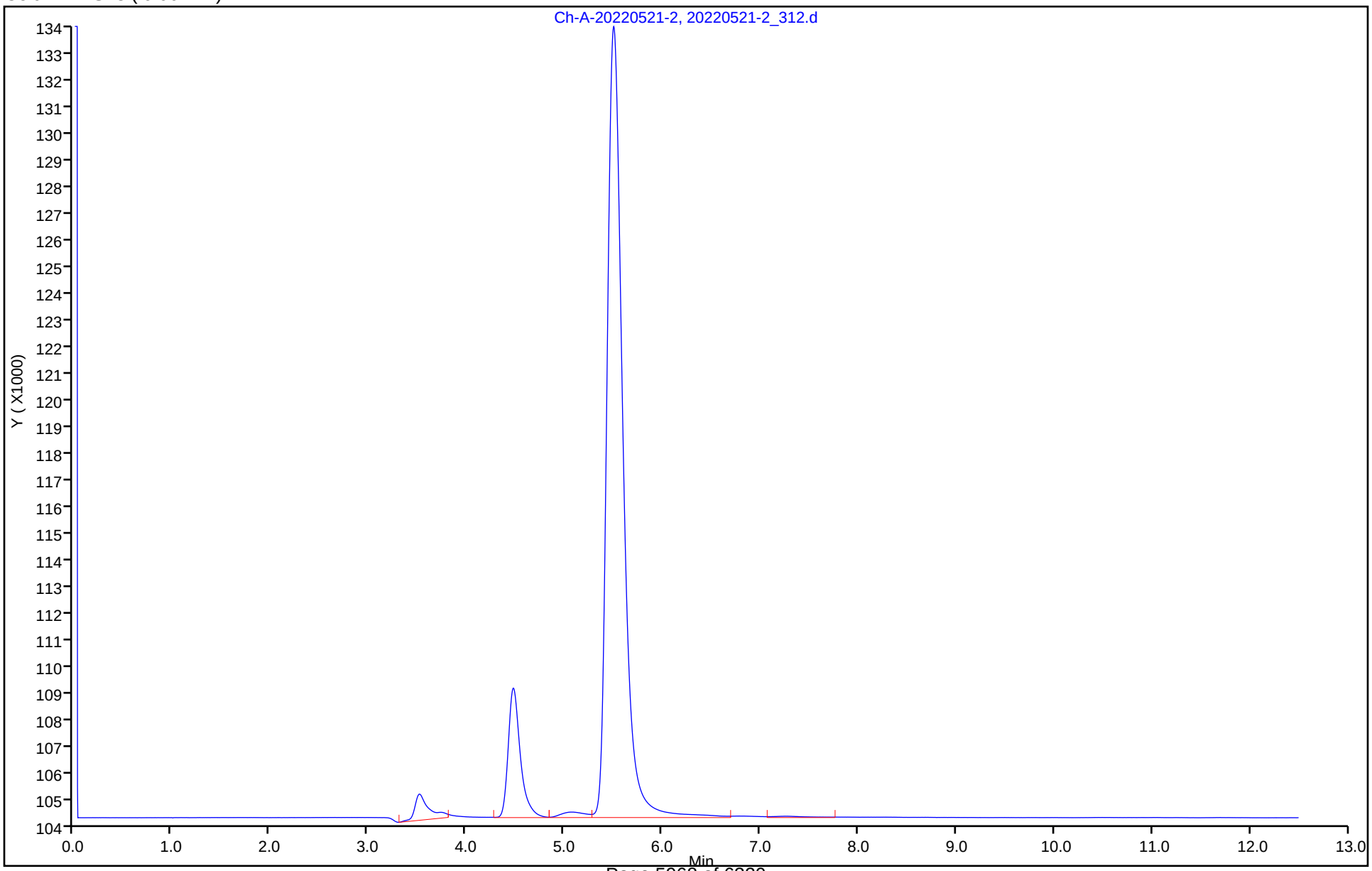
Report Date: 15-Jun-2022 14:08:27 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\20220521-2_312.d

Injection Date:	14-Jun-2022 17:25:10	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	480-198720-M-2	Lab Sample ID:	480-198720-2	Worklist Smp#:	17
Client ID:	CD-1RA				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\20220521-2_313.d				
Lims ID:	480-198720-M-3				
Client ID:	MW-1B				
Sample Type:	Client				
Inject. Date:	14-Jun-2022 17:39:19	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 313				
Operator ID:	tchrom	Instrument ID:	IC-2		
Method:	\\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\IC2-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	15-Jun-2022 14:08:24	Calib Date:	29-Mar-2022 12:15:57		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1681				
First Level Reviewer: zahniseri		Date:	15-Jun-2022 14:06:20		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

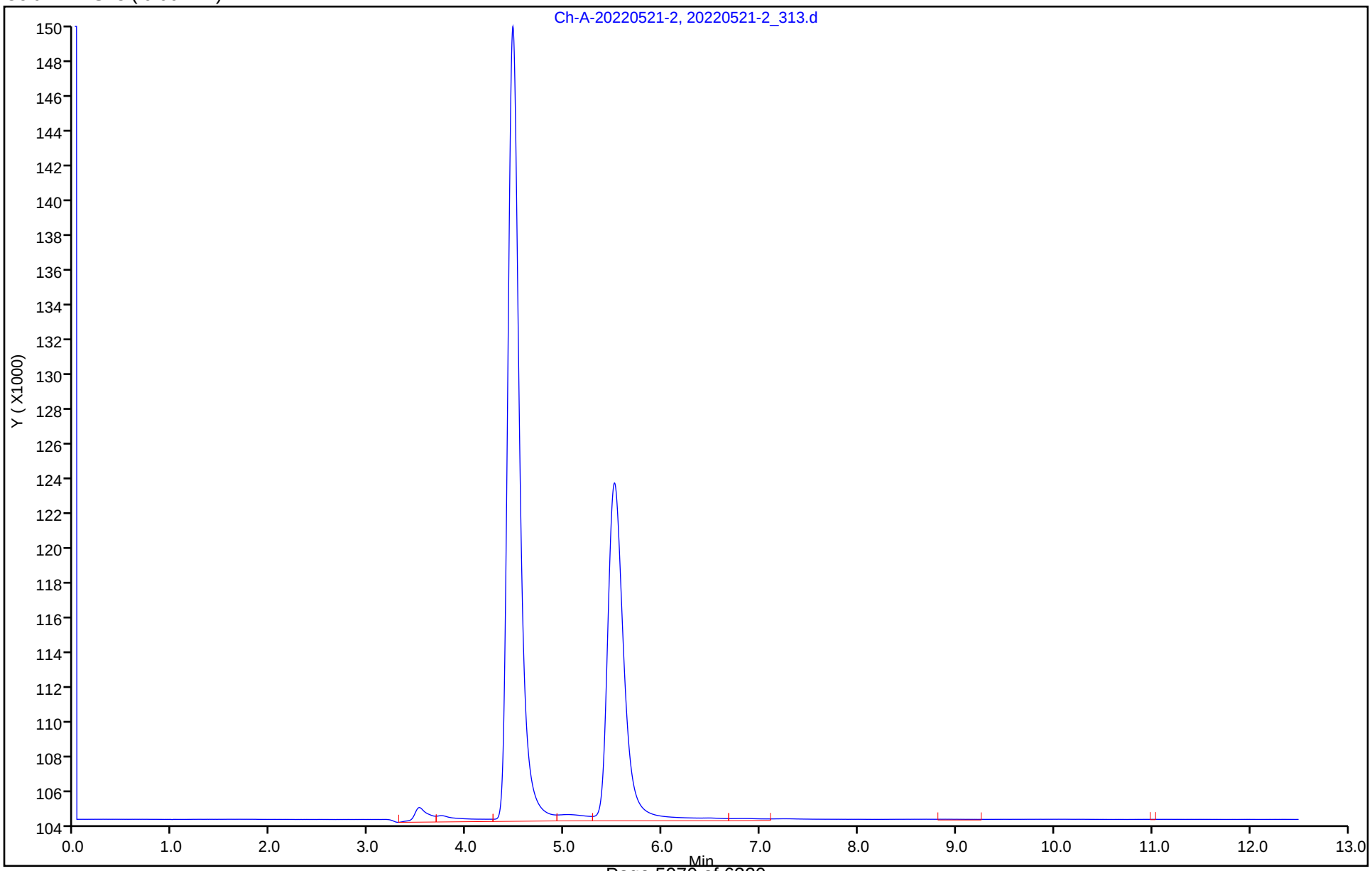
Report Date: 15-Jun-2022 14:08:27 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\20220521-2_313.d

Injection Date:	14-Jun-2022 17:39:19	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	480-198720-M-3	Lab Sample ID:	480-198720-3	Worklist Smp#:	18
Client ID:	MW-1B				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\20220521-2_314.d				
Lims ID:	480-198720-M-4				
Client ID:	DUP CD-1RA				
Sample Type:	Client				
Inject. Date:	14-Jun-2022 17:53:27	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 314				
Operator ID:	tchrom	Instrument ID:	IC-2		
Method:	\\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\IC2-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	15-Jun-2022 14:08:24	Calib Date:	29-Mar-2022 12:15:57		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1681				
First Level Reviewer: zahniseri		Date:	15-Jun-2022 14:06:23		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

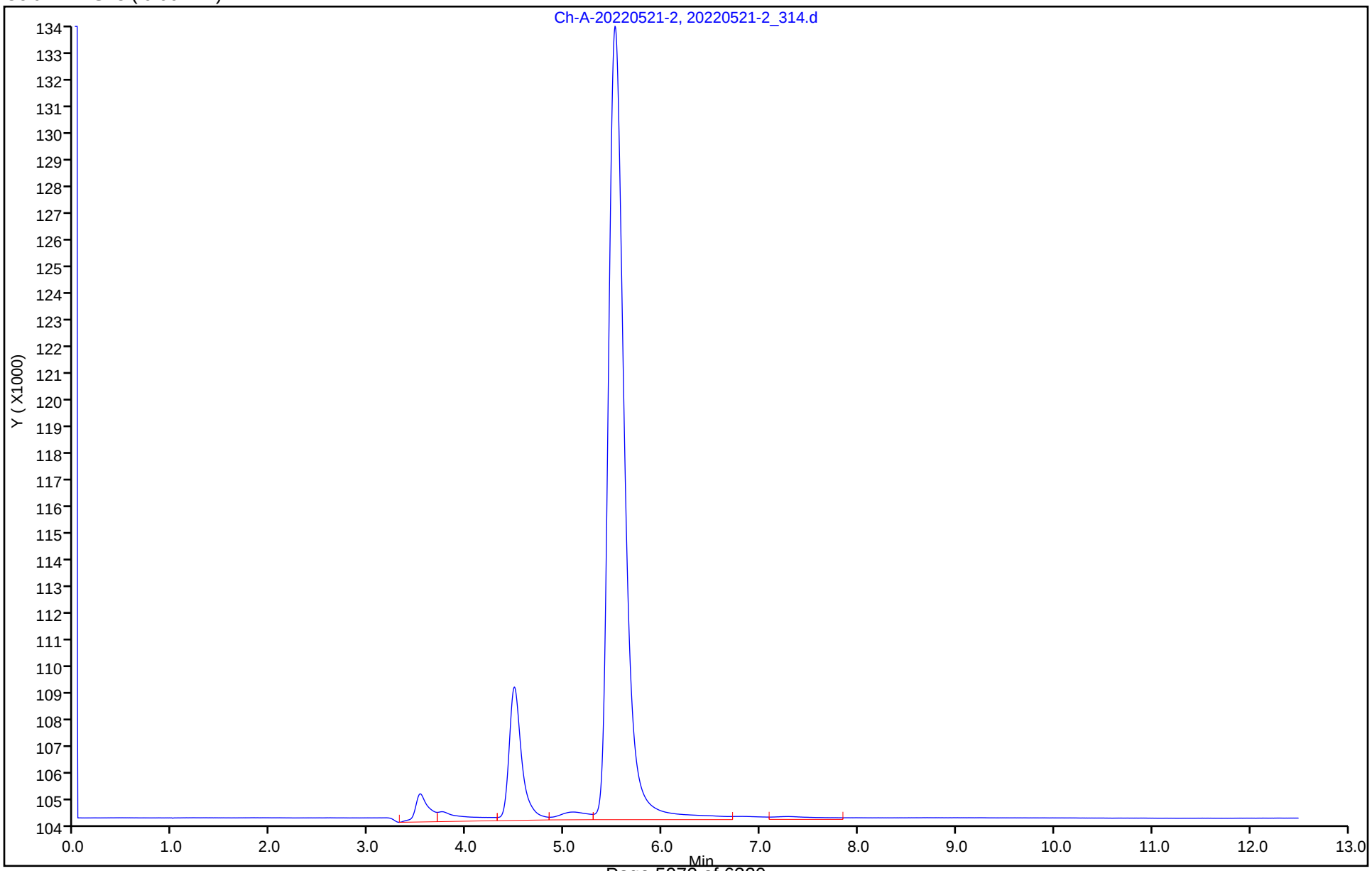
Report Date: 15-Jun-2022 14:08:27 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\20220521-2_314.d

Injection Date:	14-Jun-2022 17:53:27	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	480-198720-M-4	Lab Sample ID:	480-198720-4	Worklist Smp#:	19
Client ID:	DUP CD-1RA				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\20220521-2_321.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 14-Jun-2022 19:32:26 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 321
Operator ID: tchrom Instrument ID: IC-2
Sublist: chrom-IC2-300*sub7

Method: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\IC2-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 15-Jun-2022 14:08:30 Calib Date: 29-Mar-2022 12:15:57
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1681

First Level Reviewer: zahniseri Date: 15-Jun-2022 14:06:44

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.553	3.553	0.000	238039	5.01	4.86	
2 Chloride						
4.487	4.487	0.000	1433986	50.1	49.0	
3 Nitrite as N						
5.077	5.077	0.000	286710	NC	NC	
4 Sulfate						
5.477	5.477	0.000	1075233	50.0	49.0	
5 Bromide						
6.503	6.503	0.000	61466	5.01	4.67	
6 Nitrate as N						
7.217	7.217	0.000	366151	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00421 Amount Added: 5.00 Units: mL

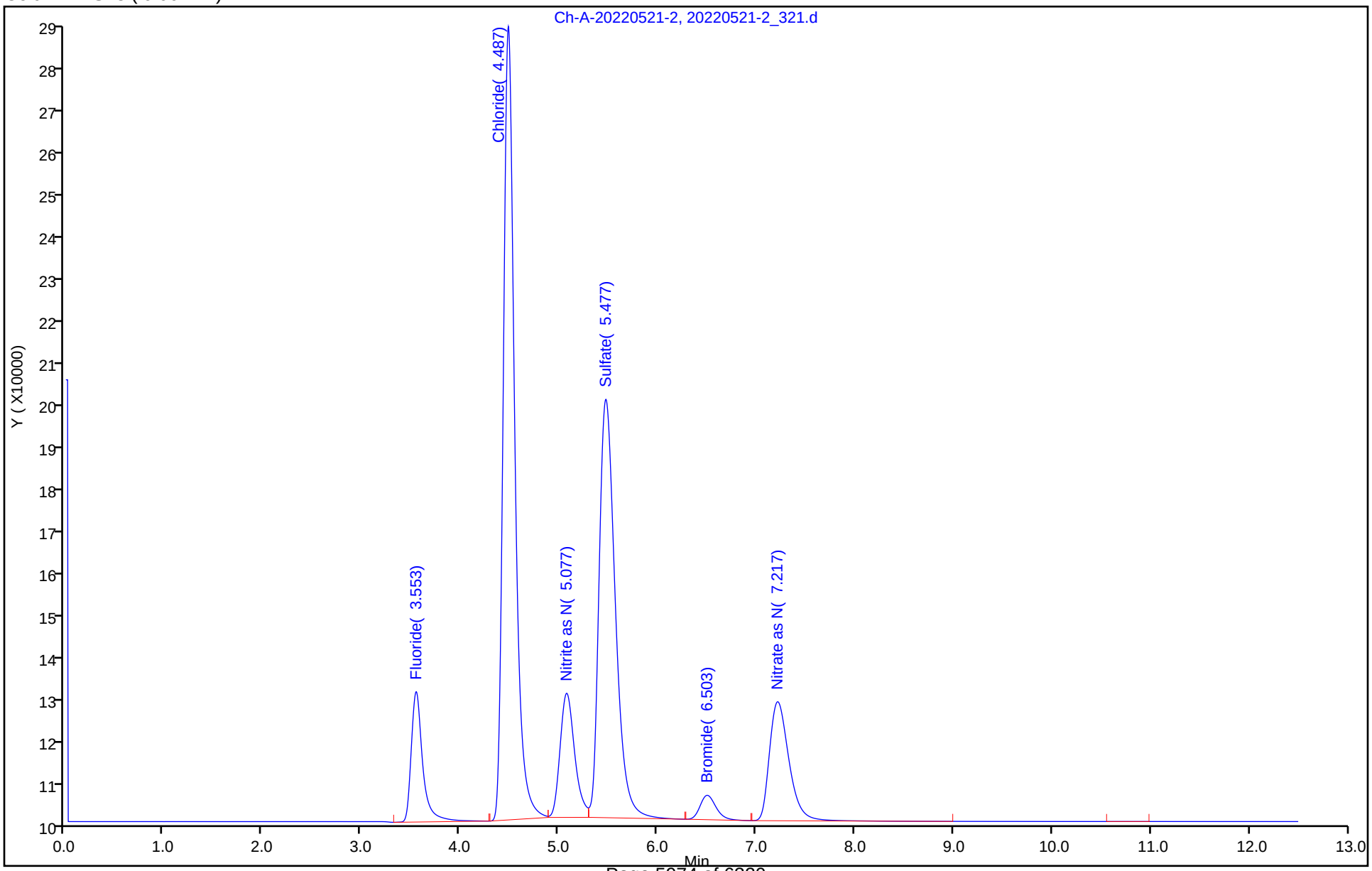
Report Date: 15-Jun-2022 14:08:30 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\20220521-2_321.d

Injection Date:	14-Jun-2022 19:32:26	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	CCV			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\20220521-2_322.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 14-Jun-2022 19:46:34 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 322
Operator ID: tchrom Instrument ID: IC-2

Method: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\IC2-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 15-Jun-2022 14:08:30 Calib Date: 29-Mar-2022 12:15:57
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1681

First Level Reviewer: zahniseri Date: 15-Jun-2022 14:06:47

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						
4.523	4.487	0.036	2896		0.0475	
3 Nitrite as N						
5.113	5.077	0.036	3841		NC	
4 Sulfate						
5.583	5.477	0.106	3282		0.0683	
6 Nitrate as N						
7.390	7.217	0.173	1488		NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

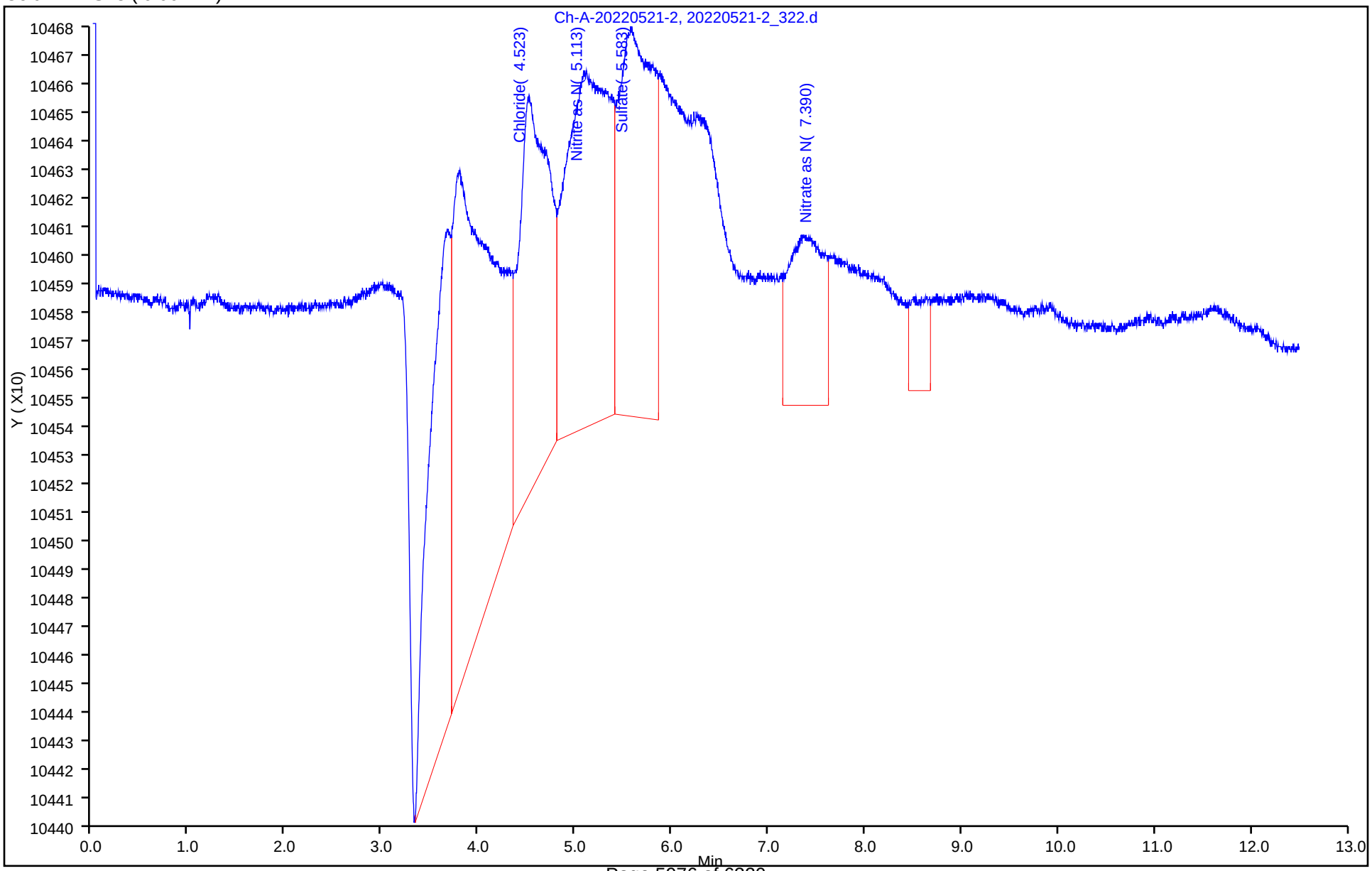
Report Date: 15-Jun-2022 14:08:31 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220613-106049.b\20220521-2_322.d

Injection Date:	14-Jun-2022 19:46:34	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	CCB			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Ion Chromatography Data Review Checklist

LIMS Batch Number: 630215, 216	Worklist: 10607	Instrument ID (circle one): IC1 IC2 IC5 IC6 VFA1
Analyst/1st Reviewer:	Method (circle): 300.0, 314.0, 9056, 7199, SM4110, VFA	QC Type (circle): Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)				✓	
2. Elution order of analytes in ICAL confirmed to be correct				✓	
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) |x-intercept| < RL or < ½ RL (314.0 or special projects)				✓	
4. ICV, second source: run before samples 90-110% recovery				✓	If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)				✓	If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project)				✓	If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)				✓	If no, list details:
8. Pk Area:Height Difference (314.0 $PD_{A/H}$): Before samples <25%				✓	If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?				✓	Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chroms, date, initial, & reason)				✓	Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project) *If no, list blank ID & explain:*				✓	☐ No analyte > RL in associated samples ☐ Sample results >10x blank ☐ Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) *If no, list LCS ID & explain:*				✓	☐ Insufficient sample for reanalysis ☐ LCS %R > QC limits & samples < RL

Jones 06/20/2022

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) *If no, list QC ID & explain:*				✓	□ Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%				✓	

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified			✓	
b. All crossed out data is initialed and dated			✓	
c. Out of control QC is clearly identified			✓	
d. Any data that has a qualifier tick is commented on with appropriate action taken			✓	
e. The first page of the run includes the filename, instrument, and analyst initials/signature			✓	
16. Run Log				
a. Unused data is clearly identified			✓	
b. All crossed out data is initialed and dated			✓	
c. Analyst initials/signature provided			✓	
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct			✓	
b. Method and matrix are correct			✓	
c. Date and time match raw data			✓	
d. Dilutions are correct			✓	
e. Correct suffix designated (where applicable)			✓	
18. TALS Worksheet Tab is complete and correct			✓	
19. TALS Reagent Tab is complete and correct			✓	
20. TALS QC Links Tab is correct			✓	
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted			✓	
b. All reported analytes are marked Primary or Secondary			✓	
22. TALS Batch Information Screen documentation is complete			✓	
23. TALS Status set to appropriate review level			✓	
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?			✓	
25. Results for samples and QC correct on final report?			✓	
26. Are all necessary scanned documents in TALS?			✓	
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?			✓	

2nd Reviewer: Jones/ra **Review Date:** 06/20/2022

Comments:

Jones/ra 06/20/2022

Eurofins Environment Testing America
Worklist Report

Worklist Name: 2022 06 15 A
Instrument Name: IC-2
Injection Volume: 1.000
Analysis Type: Semi VOA
Batch Directory: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b
Upload Directory: \\CorpTALSAPP17\480-BF-RawData\Organics\MS\IC-2
Batch #s: 630215, 630216, 630217, 630218

Worklist Number: 106097
Chrom Method: IC2-300
Units: ul

KER 06/15/2022

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0106097-001	# 1 blank		Client	sv	5.000	mL	1.000
480-0106097-002	# 2 CCV	IC_ANION_LCS__00421	CCV	sv	5.000	mL	1.000
480-0106097-003	# 3 CCB		CCB	sv	5.000	mL	1.000
480-0106097-004	# 4 MB		MB	sv	5.000	mL	1.000
480-0106097-005	# 5 LCS	IC_ANION_LCS__00421	LCS	sv	5.000	mL	1.000
480-0106097-006	# 6 480-198665-C-27		Client	sv	5.000	mL	2.000
480-0106097-007	# 7 480-198665-C-28		Client	sv	5.000	mL	5.000
480-0106097-008	# 8 480-198665-C-29		Client	sv	5.000	mL	5.000
480-0106097-009	# 9 480-198764-Q-1		Client	sv	5.000	mL	20.00
480-0106097-010	#10 480-198764-Q-2		Client	sv	5.000	mL	50.00
480-0106097-011	#11 480-198764-Q-3		Client	sv	5.000	mL	20.00
480-0106097-012	#12 480-198764-Q-3 MS	IC_6ANION_STD_00004	MS	sv	5.000	mL	20.00
480-0106097-013	#13 480-198764-Q-3 MSD	IC_6ANION_STD_00004	MSD	sv	5.000	mL	20.00

NT NT T T

Jane Rho 06/20/2022

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0106097-014	#14 CCV	IC_ANION_LCS__00421	CCV	sv	5.000	mL	1.000
480-0106097-015	#15 CCB		CCB	sv	5.000	mL	1.000
480-0106097-016	#16 480-198764-Q-4		Client	sv	5.000	mL	20.00 T
480-0106097-017	#17 480-198764-Q-5		Client	sv	5.000	mL	50.00 T
480-0106097-018	#18 480-198776-H-1		Client	sv	5.000	mL	50.00 T
480-0106097-019	#19 480-198813-L-1		Client	sv	5.000	mL	1.000
480-0106097-020	#20 480-198813-L-2		Client	sv	5.000	mL	2.000 NT
480-0106097-021	#21 480-198813-L-3		Client	sv	5.000	mL	2.000 NT
480-0106097-022	#22 480-198813-L-4		Client	sv	5.000	mL	1.000
480-0106097-023	#23 480-198813-L-5		Client	sv	5.000	mL	1.000
480-0106097-024	#24 480-198813-L-6		Client	sv	5.000	mL	2.000 NT
480-0106097-025	#25 480-198813-L-6 MS	IC_6ANION_STD_00004	MS	sv	5.000	mL	2.000 1
480-0106097-026	#26 CCV	IC_ANION_LCS__00421	CCV	sv	5.000	mL	1.000
480-0106097-027	#27 CCB		CCB	sv	5.000	mL	1.000
480-0106097-028	#28 MDLV	IC_6ANION_STD_00004	MDLV	sv	5.000	mL	1.000

Jane Rea 06/20/2022

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Ion Chromatography Data Review Checklist

LIMS Batch Number: 630215, 216	Worklist: 10607	Instrument ID (circle one): IC1 IC2 IC5 IC6 VFA1
Analyst/1st Reviewer:	Method (circle): 300.0, 314.0, 9056, 7199, SM4110, VFA	QC Type (circle): Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)		✓			
2. Elution order of analytes in ICAL confirmed to be correct		✓			
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) |x-intercept| < RL or < ½ RL (314.0 or special projects)		✓			
4. ICV, second source: run before samples 90-110% recovery		✓			If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		✓			If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project)		✓			If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)		✓			If no, list details:
8. Pk Area:Height Difference (314.0 $PD_{A/H}$): Before samples <25%		✓			If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?		✓			Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chroms, date, initial, & reason)		✓			Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project) *If no, list blank ID & explain:*		✓			☐ No analyte > RL in associated samples ☐ Sample results >10x blank ☐ Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) *If no, list LCS ID & explain:*		✓			☐ Insufficient sample for reanalysis ☐ LCS %R > QC limits & samples < RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) *If no, list QC ID & explain:*					□ Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%					

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified				
b. All crossed out data is initialed and dated				
c. Out of control QC is clearly identified				
d. Any data that has a qualifier tick is commented on with appropriate action taken				
e. The first page of the run includes the filename, instrument, and analyst initials/signature				
16. Run Log				
a. Unused data is clearly identified				
b. All crossed out data is initialed and dated				
c. Analyst initials/signature provided				
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct				
b. Method and matrix are correct				
c. Date and time match raw data				
d. Dilutions are correct				
e. Correct suffix designated (where applicable)				
18. TALS Worksheet Tab is complete and correct				
19. TALS Reagent Tab is complete and correct				
20. TALS QC Links Tab is correct				
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted				
b. All reported analytes are marked Primary or Secondary				
22. TALS Batch Information Screen documentation is complete				
23. TALS Status set to appropriate review level				
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ **Review Date:** _____

Comments: _____

Eurofins Environment Testing America
Worklist Report

Worklist Name: 2022 06 15 A
Instrument Name: IC-2
Injection Volume: 1.000
Analysis Type: Semi VOA
Batch Directory: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b
Upload Directory: \\CorpTALSAPP17\480-BF-RawData\Organics\MS\IC-2
Batch #s: 630215, 630216, 630217, 630218

Worklist Number: 106097
Chrom Method: IC2-300
Units: ul

KER 06/15/2022

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0106097-001	# 1 blank		Client	sv	5.000	mL	1.000
480-0106097-002	# 2 CCV	IC_ANION_LCS__00421	CCV	sv	5.000	mL	1.000
480-0106097-003	# 3 CCB		CCB	sv	5.000	mL	1.000
480-0106097-004	# 4 MB		MB	sv	5.000	mL	1.000
480-0106097-005	# 5 LCS	IC_ANION_LCS__00421	LCS	sv	5.000	mL	1.000
480-0106097-006	# 6 480-198665-C-27		Client	sv	5.000	mL	2.000
480-0106097-007	# 7 480-198665-C-28		Client	sv	5.000	mL	5.000
480-0106097-008	# 8 480-198665-C-29		Client	sv	5.000	mL	5.000
480-0106097-009	# 9 480-198764-Q-1		Client	sv	5.000	mL	20.00
480-0106097-010	#10 480-198764-Q-2		Client	sv	5.000	mL	50.00
480-0106097-011	#11 480-198764-Q-3		Client	sv	5.000	mL	20.00
480-0106097-012	#12 480-198764-Q-3 MS	IC_6ANION_STD_00004	MS	sv	5.000	mL	20.00
480-0106097-013	#13 480-198764-Q-3 MSD	IC_6ANION_STD_00004	MSD	sv	5.000	mL	20.00

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0106097-014	#14 CCV	IC_ANION_LCS__00421	CCV	sv	5.000	mL	1.000
480-0106097-015	#15 CCB		CCB	sv	5.000	mL	1.000
480-0106097-016	#16 480-198764-Q-4		Client	sv	5.000	mL	20.00
480-0106097-017	#17 480-198764-Q-5		Client	sv	5.000	mL	50.00
480-0106097-018	#18 480-198776-H-1		Client	sv	5.000	mL	50.00
480-0106097-019	#19 480-198813-L-1		Client	sv	5.000	mL	1.000
480-0106097-020	#20 480-198813-L-2		Client	sv	5.000	mL	2.000
480-0106097-021	#21 480-198813-L-3		Client	sv	5.000	mL	2.000
480-0106097-022	#22 480-198813-L-4		Client	sv	5.000	mL	1.000
480-0106097-023	#23 480-198813-L-5		Client	sv	5.000	mL	1.000
480-0106097-024	#24 480-198813-L-6		Client	sv	5.000	mL	2.000
480-0106097-025	#25 480-198813-L-6 MS	IC_6ANION_STD_00004	MS	sv	5.000	mL	2.000
480-0106097-026	#26 CCV	IC_ANION_LCS__00421	CCV	sv	5.000	mL	1.000
480-0106097-027	#27 CCB		CCB	sv	5.000	mL	1.000
480-0106097-028	#28 MDLV	IC_6ANION_STD_00004	MDLV	sv	5.000	mL	1.000

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_349.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 15-Jun-2022 17:28:15 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 349
Misc. Info.: Study: 480-0106097-002 Channel A: I/F Serial#, 6254272415
Operator ID: tchrom Instrument ID: IC-2
Sublist: chrom-IC2-300*sub7

Method: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\IC2-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 16-Jun-2022 11:44:31 Calib Date: 29-Mar-2022 12:15:57
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1603

First Level Reviewer: zahniseri Date: 16-Jun-2022 11:43:04

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.530	3.530	0.000	238506	5.01	4.87	
2 Chloride						
4.467	4.467	0.000	1446625	50.1	49.4	
3 Nitrite as N						
5.053	5.053	0.000	294238	NC	NC	
4 Sulfate						
5.520	5.520	0.000	1089718	50.0	49.7	
5 Bromide						
6.457	6.457	0.000	63969	5.01	4.87	
6 Nitrate as N						
7.167	7.167	0.000	366621	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00421 Amount Added: 5.00 Units: mL

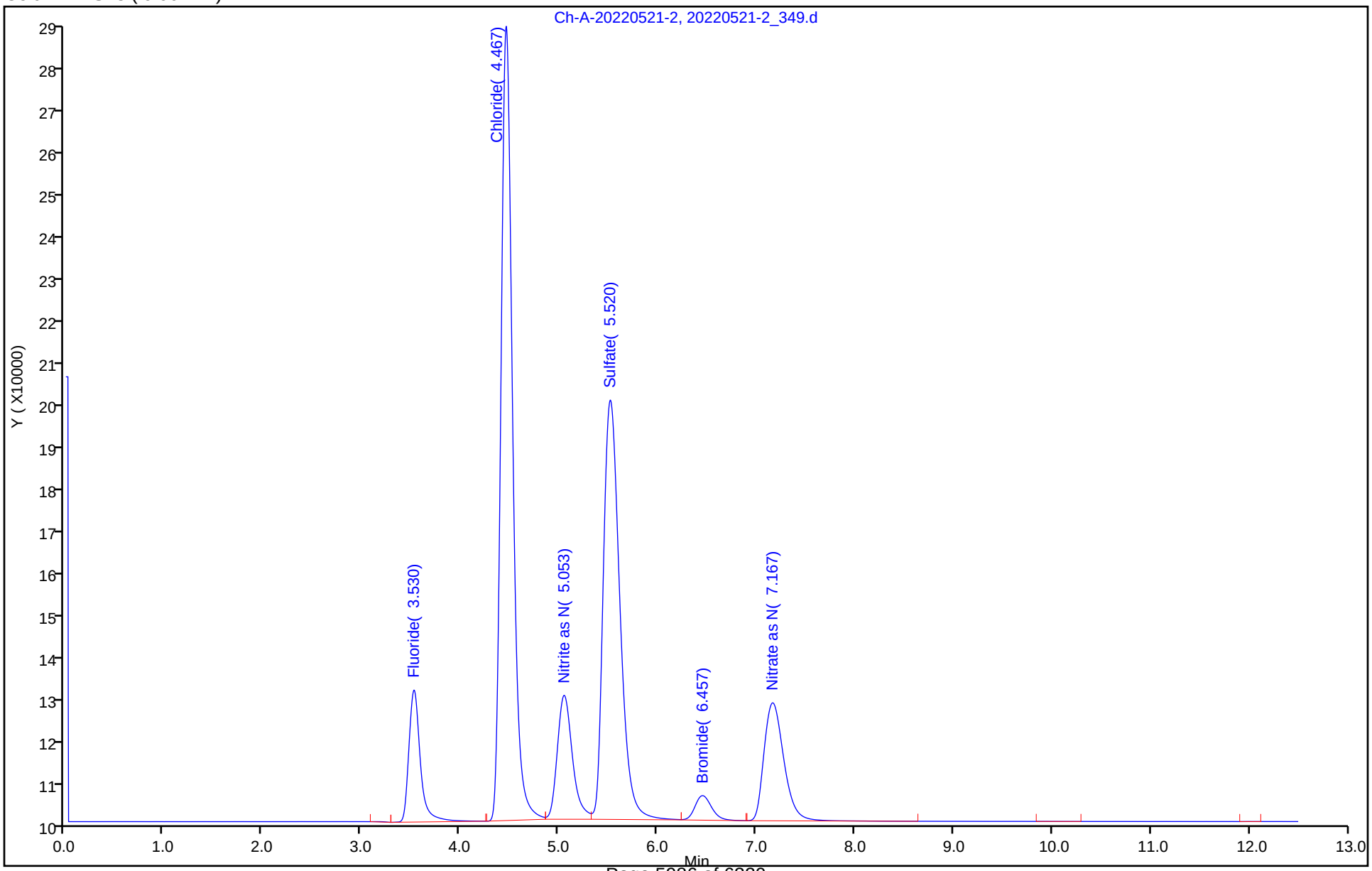
Report Date: 16-Jun-2022 11:44:31 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_349.d

Injection Date:	15-Jun-2022 17:28:15	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	CCV			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_350.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 15-Jun-2022 17:42:23 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 350
Misc. Info.: Study: 480-0106097-003 Channel A: I/F Serial#, 6254272415
Operator ID: tchrom Instrument ID: IC-2

Method: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\IC2-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 16-Jun-2022 11:44:31 Calib Date: 29-Mar-2022 12:15:57
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1603

First Level Reviewer: zahniseri Date: 16-Jun-2022 11:43:07

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						
4.497	4.467	0.030	1740		0.007958	
3 Nitrite as N						
5.090	5.053	0.037	2654		NC	
4 Sulfate						
5.573	5.520	0.053	3487		0.0776	
6 Nitrate as N						
7.287	7.167	0.120	400		NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

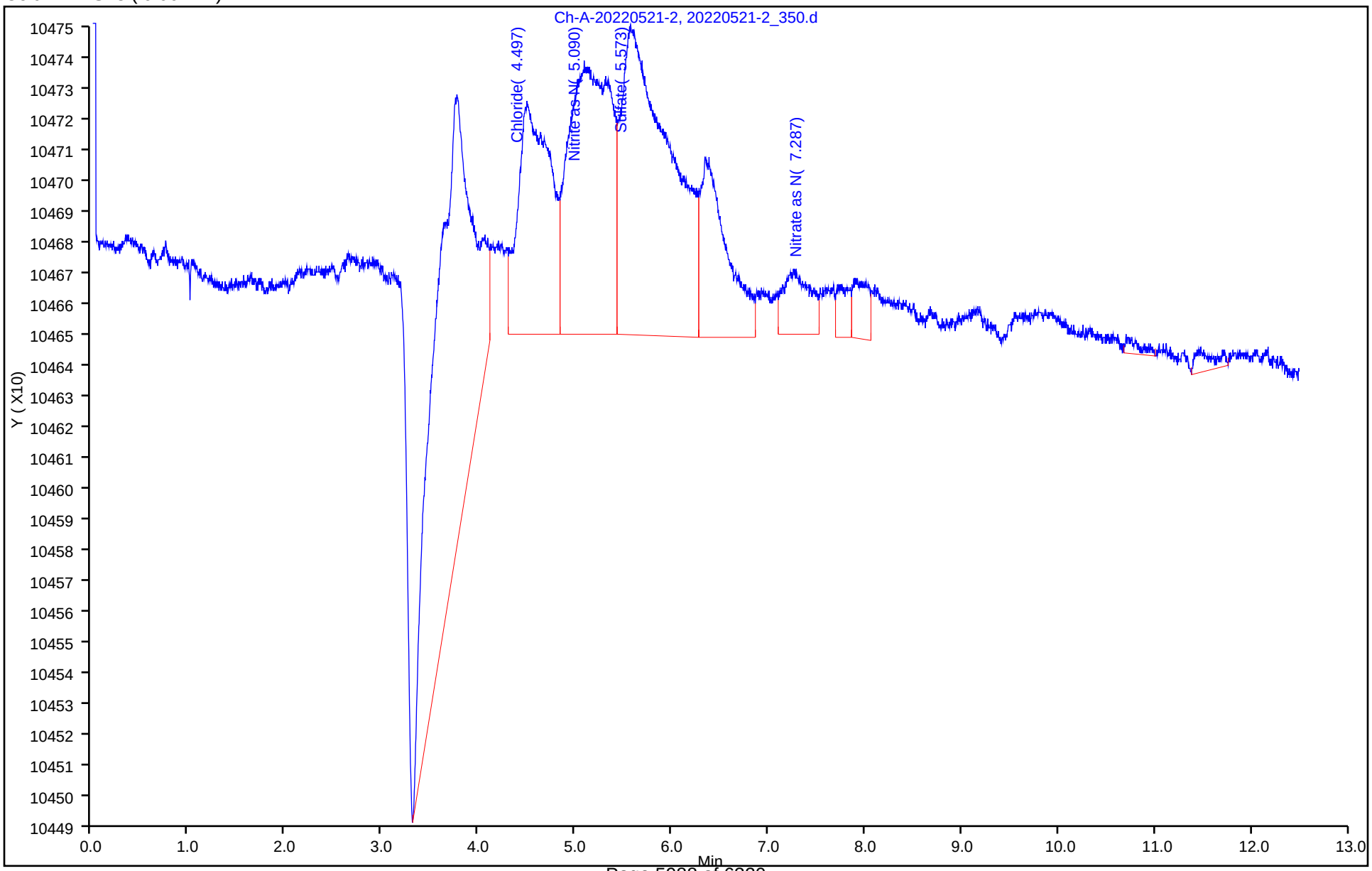
Report Date: 16-Jun-2022 11:44:32 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_350.d

Injection Date:	15-Jun-2022 17:42:23	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	CCB			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_351.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 15-Jun-2022 17:56:32 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 351
Misc. Info.: Study: 480-0106097-004 Channel A: I/F Serial#, 6254272415
Operator ID: tchrom Instrument ID: IC-2

Method: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\IC2-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 16-Jun-2022 11:44:31 Calib Date: 29-Mar-2022 12:15:57
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1603

First Level Reviewer: zahniseri Date: 16-Jun-2022 11:43:10

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						
4.473	4.467	0.006	1076		-0.0148	
3 Nitrite as N						
4.987	5.053	-0.066	562		NC	
4 Sulfate						
5.587	5.520	0.067	1523		-0.0121	
5 Bromide						
6.390	6.457	-0.067	549		0.006133	

QC Flag Legend

Processing Flags
NC - Not Calibrated

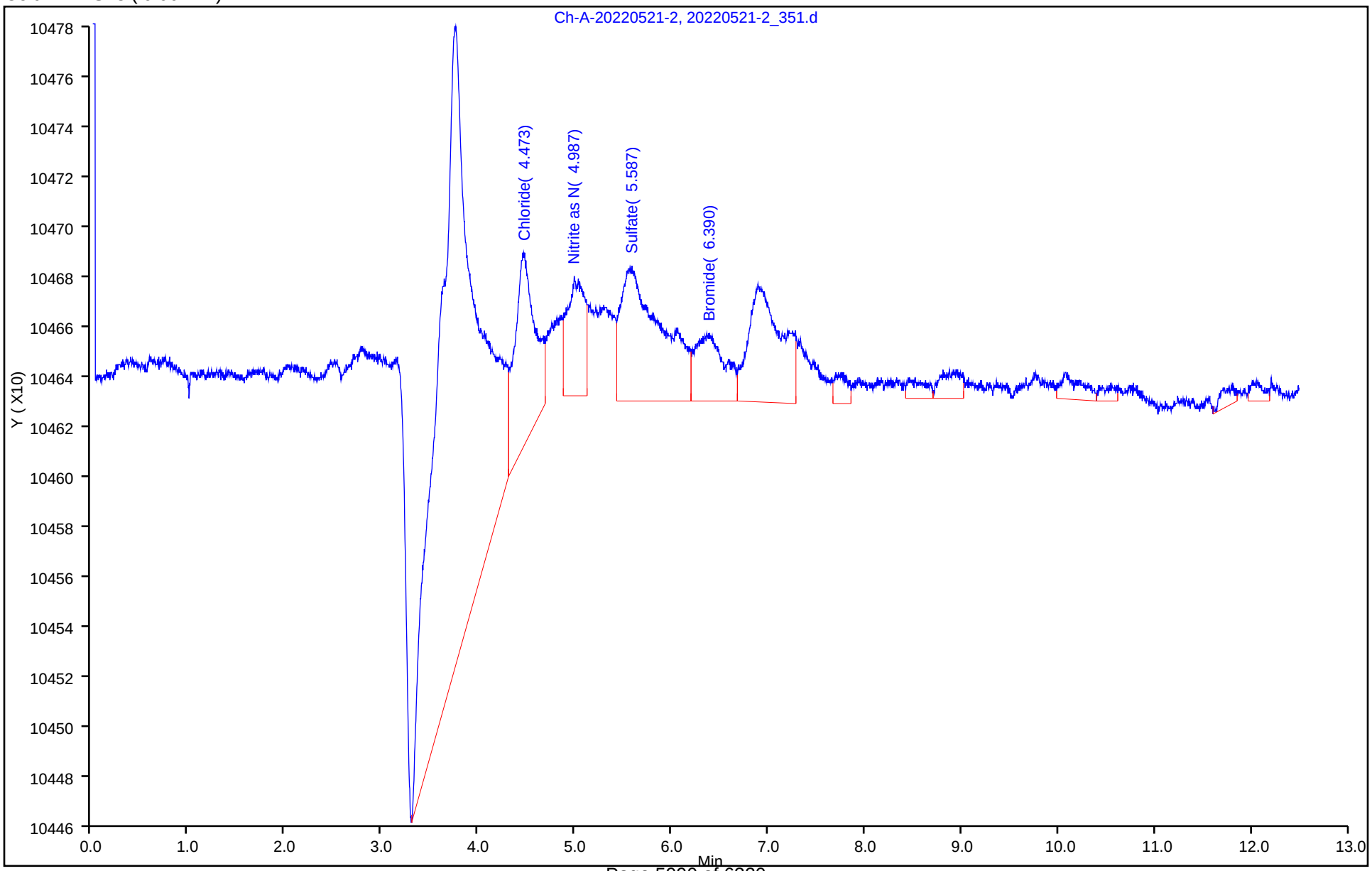
Report Date: 16-Jun-2022 11:44:32 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_351.d

Injection Date:	15-Jun-2022 17:56:32	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	MB			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_352.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 15-Jun-2022 18:10:40 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 352
Misc. Info.: Study: 480-0106097-005 Channel A: I/F Serial#, 6254272415
Operator ID: tchrom Instrument ID: IC-2

Method: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\IC2-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 16-Jun-2022 11:44:31 Calib Date: 29-Mar-2022 12:15:57
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1603

First Level Reviewer: zahniseri Date: 16-Jun-2022 11:43:13

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.530	3.530	0.000	241894	5.01	4.94	
2 Chloride						
4.463	4.467	-0.004	1448809	50.1	49.5	
3 Nitrite as N						
5.053	5.053	0.000	293727	NC	NC	
4 Sulfate						
5.520	5.520	0.000	1095330	50.0	49.9	
5 Bromide						
6.457	6.457	0.000	62389	5.01	4.75	
6 Nitrate as N						
7.170	7.167	0.003	366158	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00421 Amount Added: 5.00 Units: mL

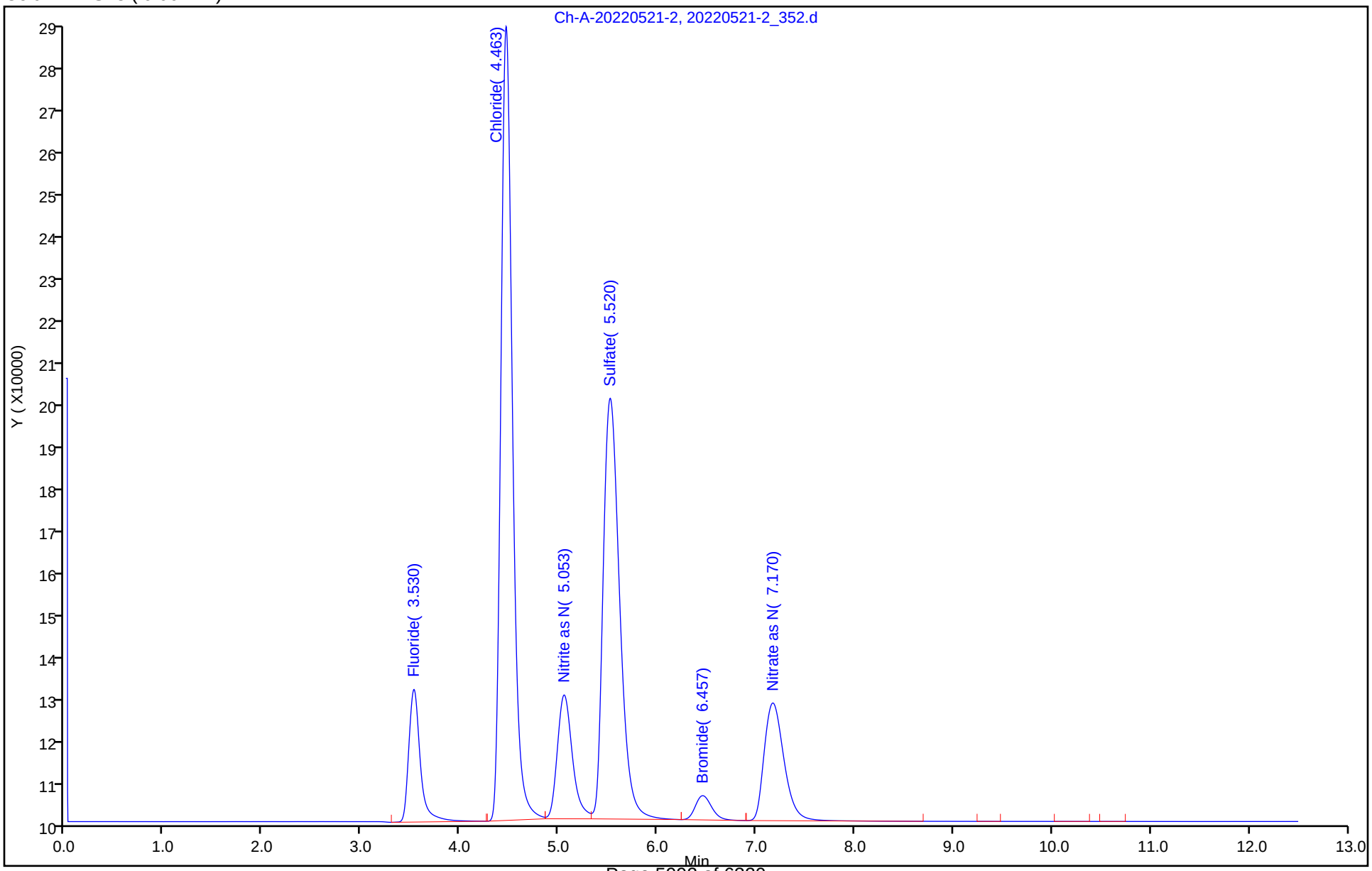
Report Date: 16-Jun-2022 11:44:33 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_352.d

Injection Date:	15-Jun-2022 18:10:40	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	LCS			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_361.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 15-Jun-2022 20:17:53 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 361
Misc. Info.: Study: 480-0106097-014 Channel A: I/F Serial#, 6254272415
Operator ID: tchrom Instrument ID: IC-2
Sublist: chrom-IC2-300*sub7

Method: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\IC2-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 16-Jun-2022 11:44:37 Calib Date: 29-Mar-2022 12:15:57
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1603

First Level Reviewer: zahniseri Date: 16-Jun-2022 11:43:38

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.600	3.600	0.000	243847	5.01	4.98	
2 Chloride						
4.537	4.537	0.000	1478449	50.1	50.5	
3 Nitrite as N						
5.123	5.123	0.000	298558	NC	NC	
4 Sulfate						
5.540	5.540	0.000	1109884	50.0	50.6	
5 Bromide						
6.527	6.527	0.000	63868	5.01	4.86	
6 Nitrate as N						
7.237	7.237	0.000	375323	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00421 Amount Added: 5.00 Units: mL

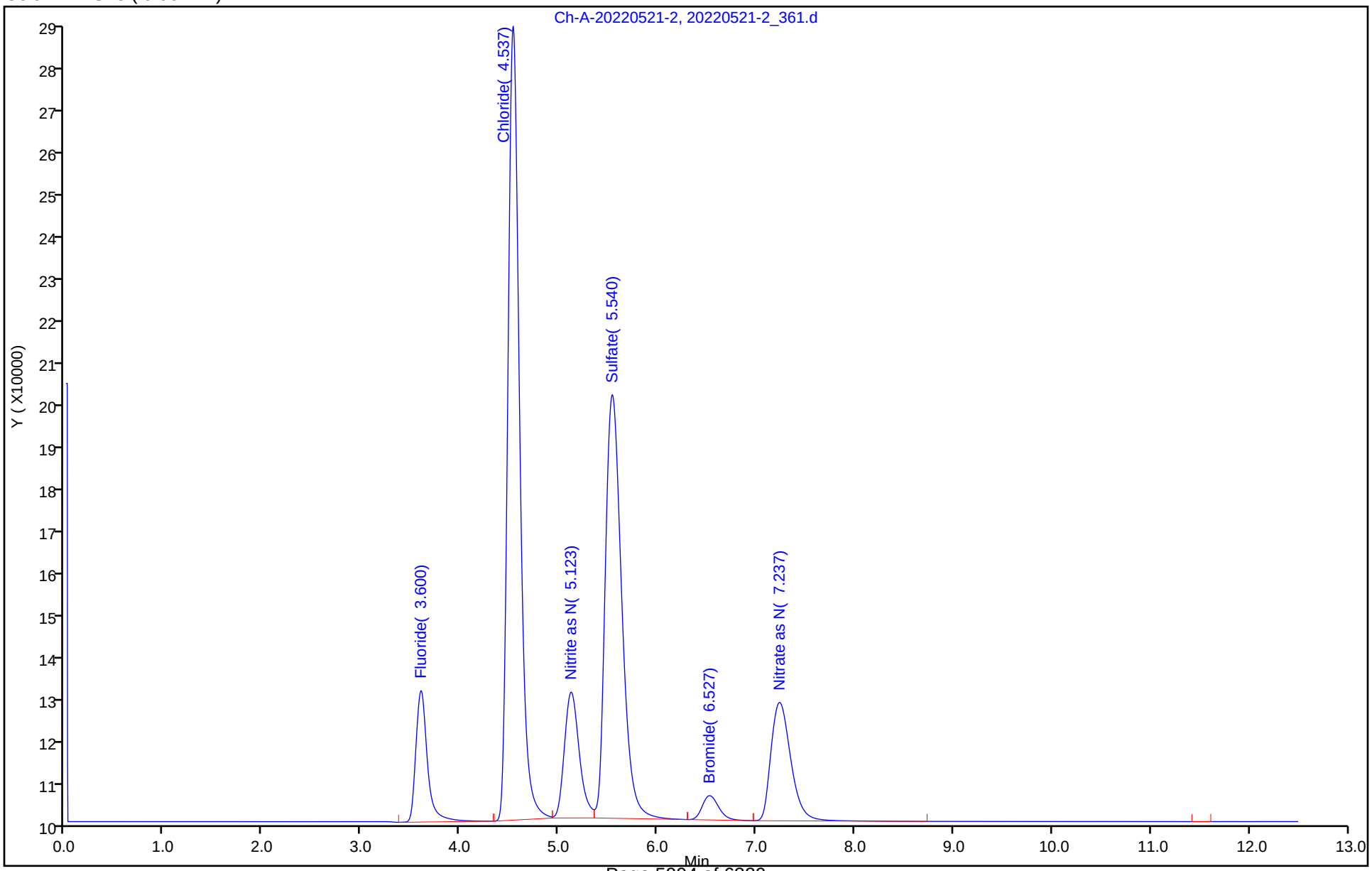
Report Date: 16-Jun-2022 11:44:37 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_361.d

Injection Date:	15-Jun-2022 20:17:53	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	CCV			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_362.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 15-Jun-2022 20:32:02 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 362
Misc. Info.: Study: 480-0106097-015 Channel A: I/F Serial#, 6254272415
Operator ID: tchrom Instrument ID: IC-2

Method: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\IC2-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 16-Jun-2022 11:44:37 Calib Date: 29-Mar-2022 12:15:57
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1603

First Level Reviewer: zahniseri Date: 16-Jun-2022 11:43:41

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						
4.553	4.537	0.016	1595		0.002998	
3 Nitrite as N						
5.127	5.123	0.004	2763		NC	
4 Sulfate						
5.630	5.540	0.090	3493		0.0779	
6 Nitrate as N						
7.363	7.237	0.126	390		NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

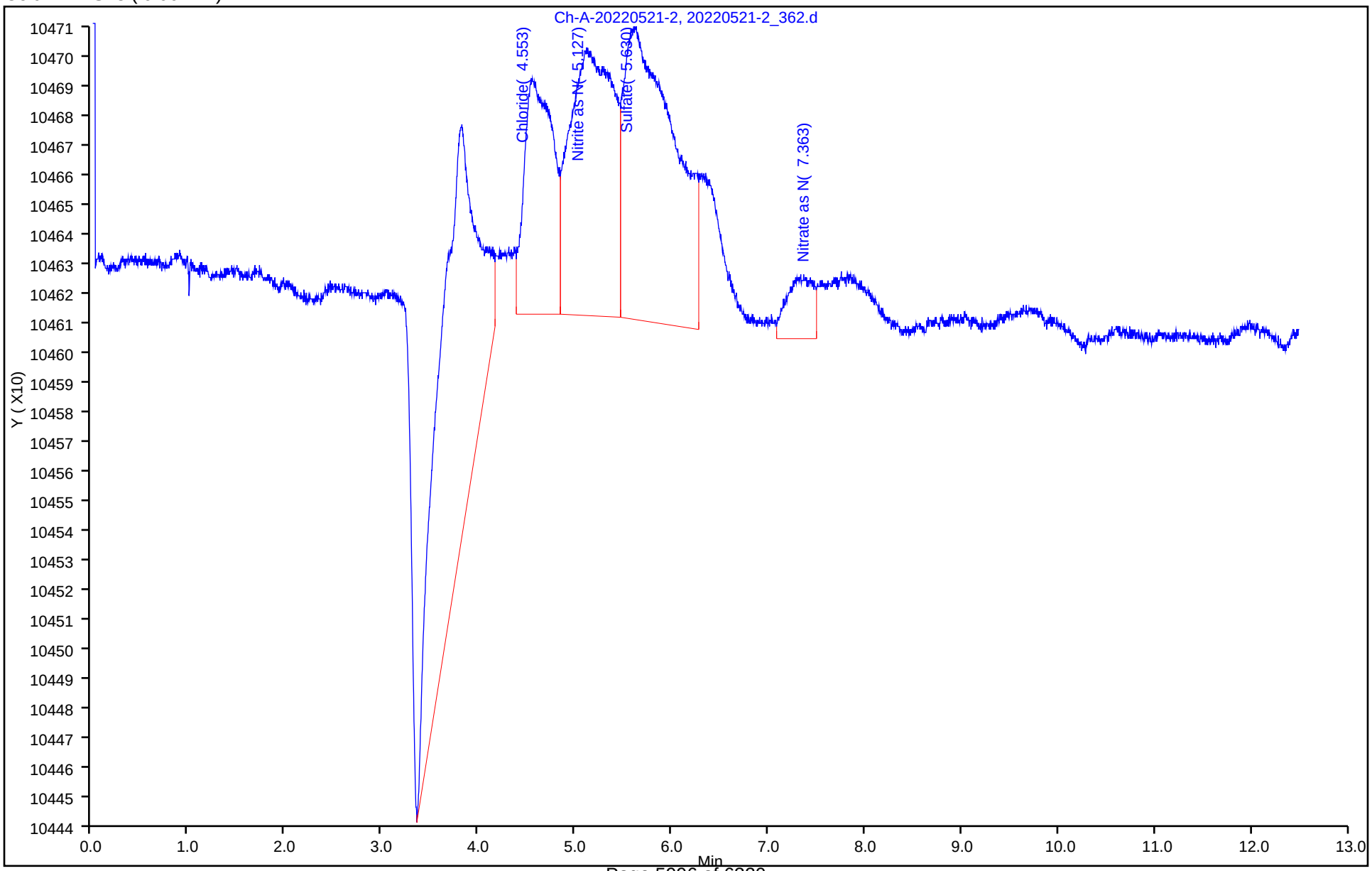
Report Date: 16-Jun-2022 11:44:38 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_362.d

Injection Date:	15-Jun-2022 20:32:02	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	CCB			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_366.d				
Lims ID:	480-198813-L-1				
Client ID:	MW-1A				
Sample Type:	Client				
Inject. Date:	15-Jun-2022 21:28:36	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 366				
Misc. Info.:	Study: 480-0106097-019 Channel A: I/F Serial#, 6254272415				
Operator ID:	tchrom	Instrument ID:	IC-2		
Method:	\\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\IC2-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	16-Jun-2022 11:44:37	Calib Date:	29-Mar-2022 12:15:57		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1603				
First Level Reviewer: zahniseri		Date:	16-Jun-2022 11:43:54		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
5 Bromide					
6.497	6.527	-0.030	1113	0.0494	

QC Flag Legend

Processing Flags

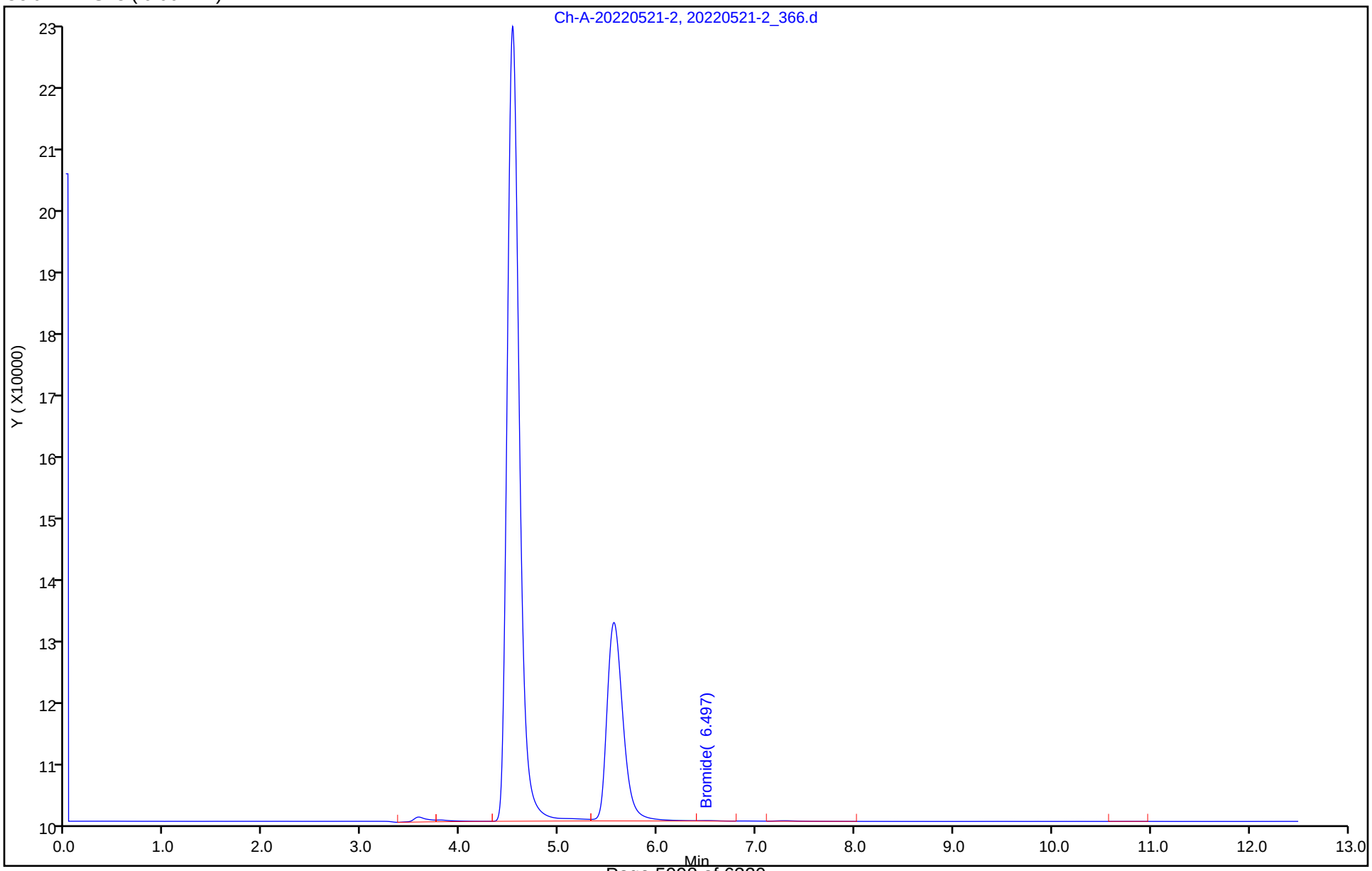
Report Date: 16-Jun-2022 11:44:40 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_366.d

Injection Date:	15-Jun-2022 21:28:36	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	480-198813-L-1	Lab Sample ID:	480-198813-1	Worklist Smp#:	19
Client ID:	MW-1A				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_367.d				
Lims ID:	480-198813-L-2				
Client ID:	MW-2A				
Sample Type:	Client				
Inject. Date:	15-Jun-2022 21:42:44	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	#: 367				
Misc. Info.:	Study: 480-0106097-020 Channel A: I/F Serial#, 6254272415				
Operator ID:	tchrom	Instrument ID:	IC-2		
Method:	\\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\IC2-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	16-Jun-2022 11:44:37	Calib Date:	29-Mar-2022 12:15:57		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1603				
First Level Reviewer: zahniseri		Date:	16-Jun-2022 11:43:59		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
5 Bromide					
6.530	6.527	0.003	6650	0.4737	

QC Flag Legend

Processing Flags

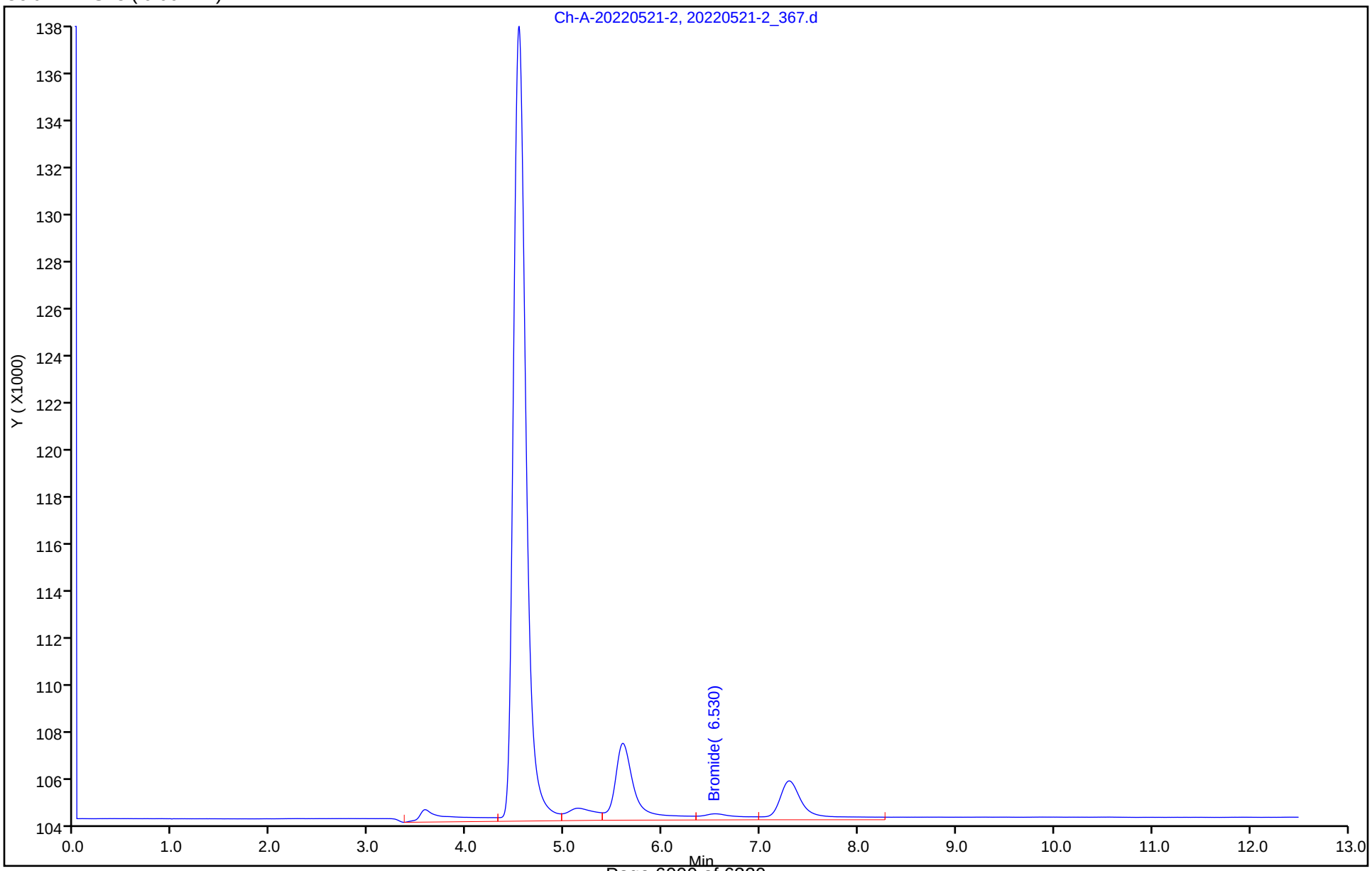
Report Date: 16-Jun-2022 11:44:40 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_367.d

Injection Date:	15-Jun-2022 21:42:44	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	480-198813-L-2	Lab Sample ID:	480-198813-2	Worklist Smp#:	20
Client ID:	MW-2A				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_368.d				
Lims ID:	480-198813-L-3				
Client ID:	MW-2B				
Sample Type:	Client				
Inject. Date:	15-Jun-2022 21:56:53	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	#: 368				
Misc. Info.:	Study: 480-0106097-021 Channel A: I/F Serial#, 6254272415				
Operator ID:	tchrom	Instrument ID:	IC-2		
Method:	\\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\IC2-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	16-Jun-2022 11:44:37	Calib Date:	29-Mar-2022 12:15:57		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1603				
First Level Reviewer: zahniseri		Date:	16-Jun-2022 11:44:02		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
5 Bromide					
6.540	6.527	0.013	10370	0.7588	

QC Flag Legend

Processing Flags

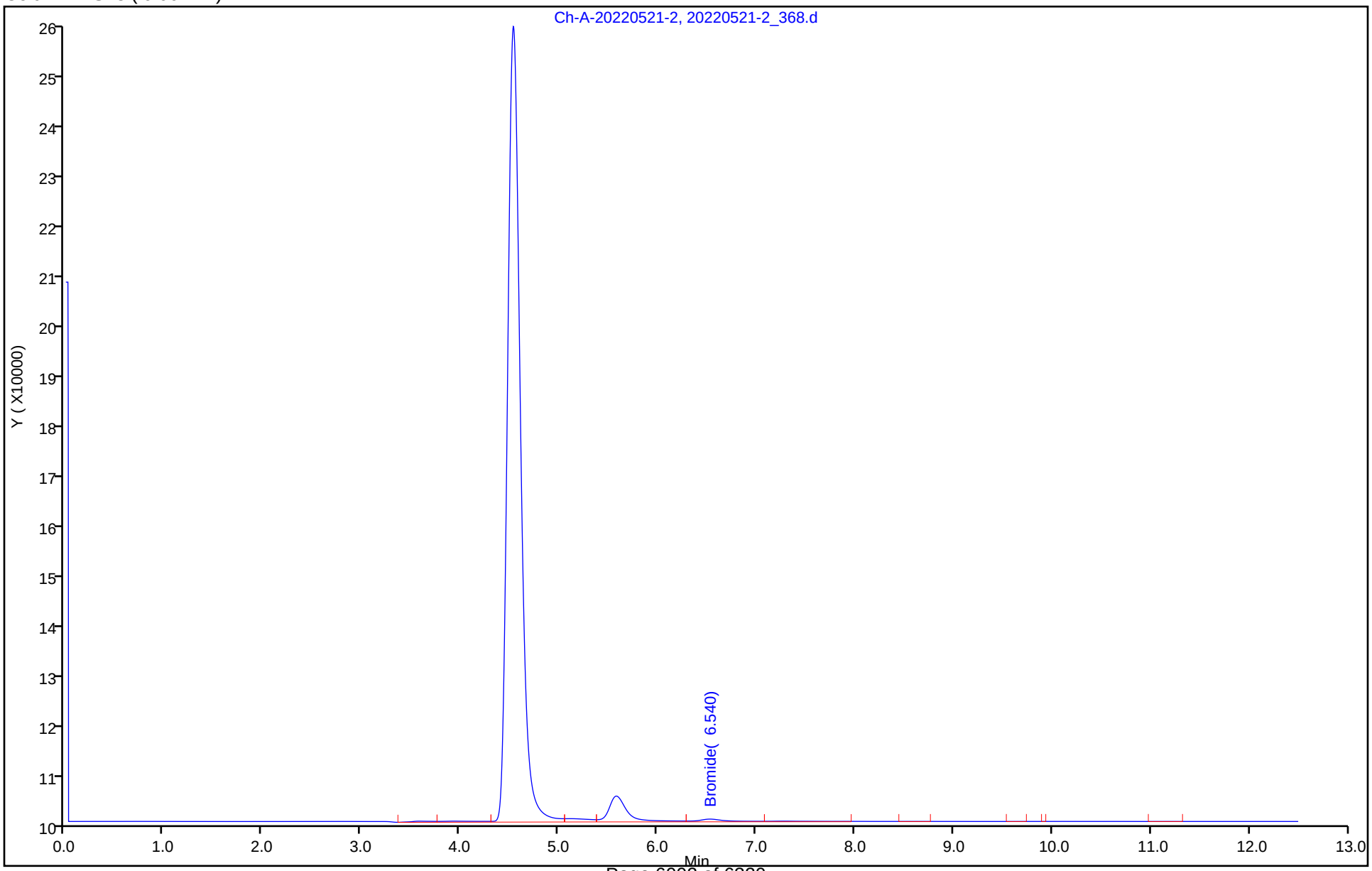
Report Date: 16-Jun-2022 11:44:40 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_368.d

Injection Date:	15-Jun-2022 21:56:53	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	480-198813-L-3	Lab Sample ID:	480-198813-3	Worklist Smp#:	21
Client ID:	MW-2B				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_369.d				
Lims ID:	480-198813-L-4				
Client ID:	MW-3A				
Sample Type:	Client				
Inject. Date:	15-Jun-2022 22:11:01	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 369				
Misc. Info.:	Study: 480-0106097-022 Channel A: I/F Serial#, 6254272415				
Operator ID:	tchrom	Instrument ID:	IC-2		
Method:	\\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\IC2-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	16-Jun-2022 11:44:37	Calib Date:	29-Mar-2022 12:15:57		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1603				
First Level Reviewer: zahniseri		Date:	16-Jun-2022 11:44:05		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

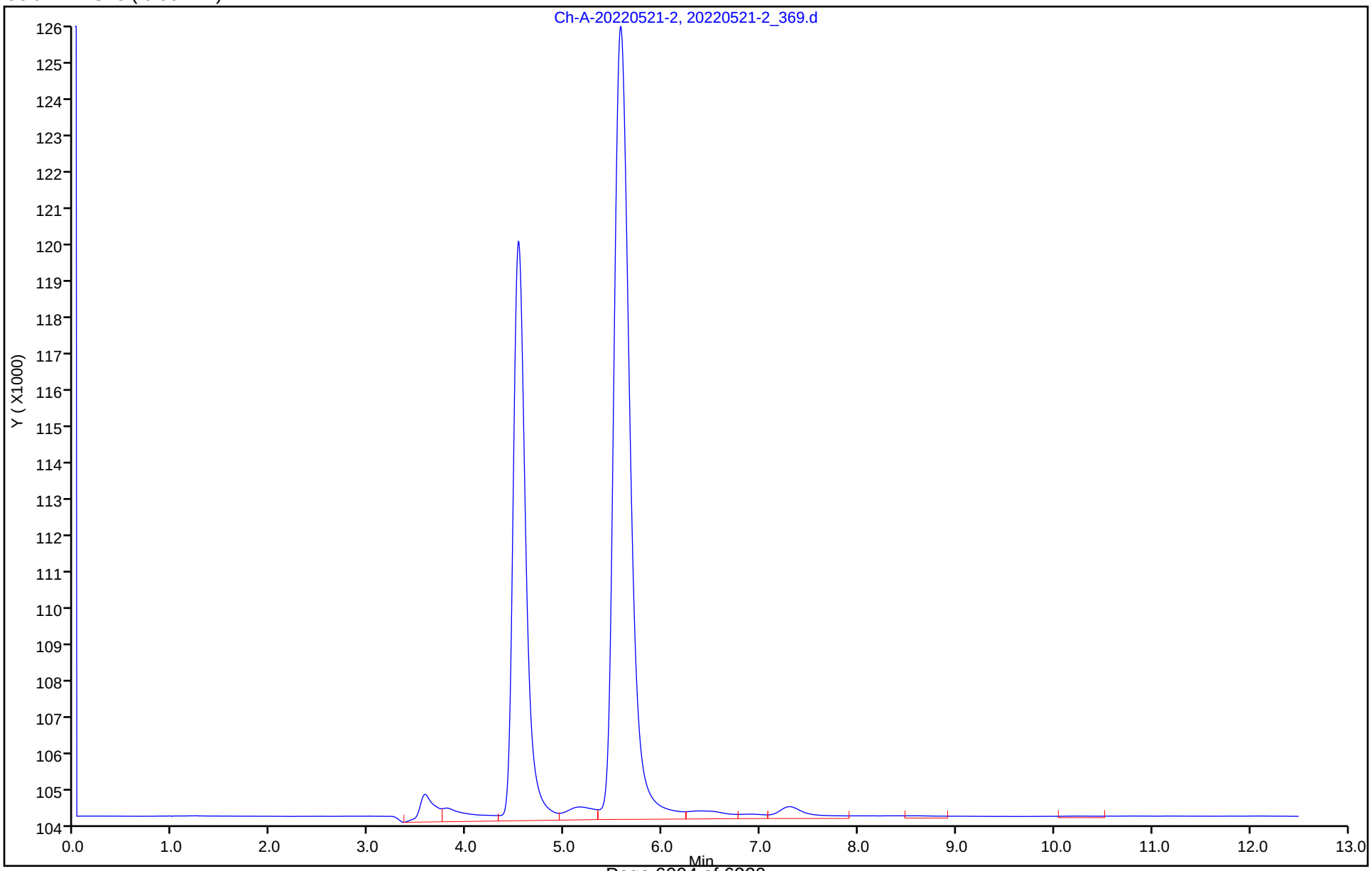
Report Date: 16-Jun-2022 11:44:41 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_369.d

Injection Date:	15-Jun-2022 22:11:01	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	480-198813-L-4	Lab Sample ID:	480-198813-4	Worklist Smp#:	22
Client ID:	MW-3A				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_370.d				
Lims ID:	480-198813-L-5				
Client ID:	MW-3B				
Sample Type:	Client				
Inject. Date:	15-Jun-2022 22:25:09	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 370				
Misc. Info.:	Study: 480-0106097-023 Channel A:	I/F Serial#, 6254272415			
Operator ID:	tchrom	Instrument ID:	IC-2		
Method:	\\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\IC2-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	16-Jun-2022 11:44:37	Calib Date:	29-Mar-2022 12:15:57		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1603				
First Level Reviewer: zahniseri		Date:	16-Jun-2022 11:44:08		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
5 Bromide					
6.537	6.527	0.010	4576	0.3148	

QC Flag Legend

Processing Flags

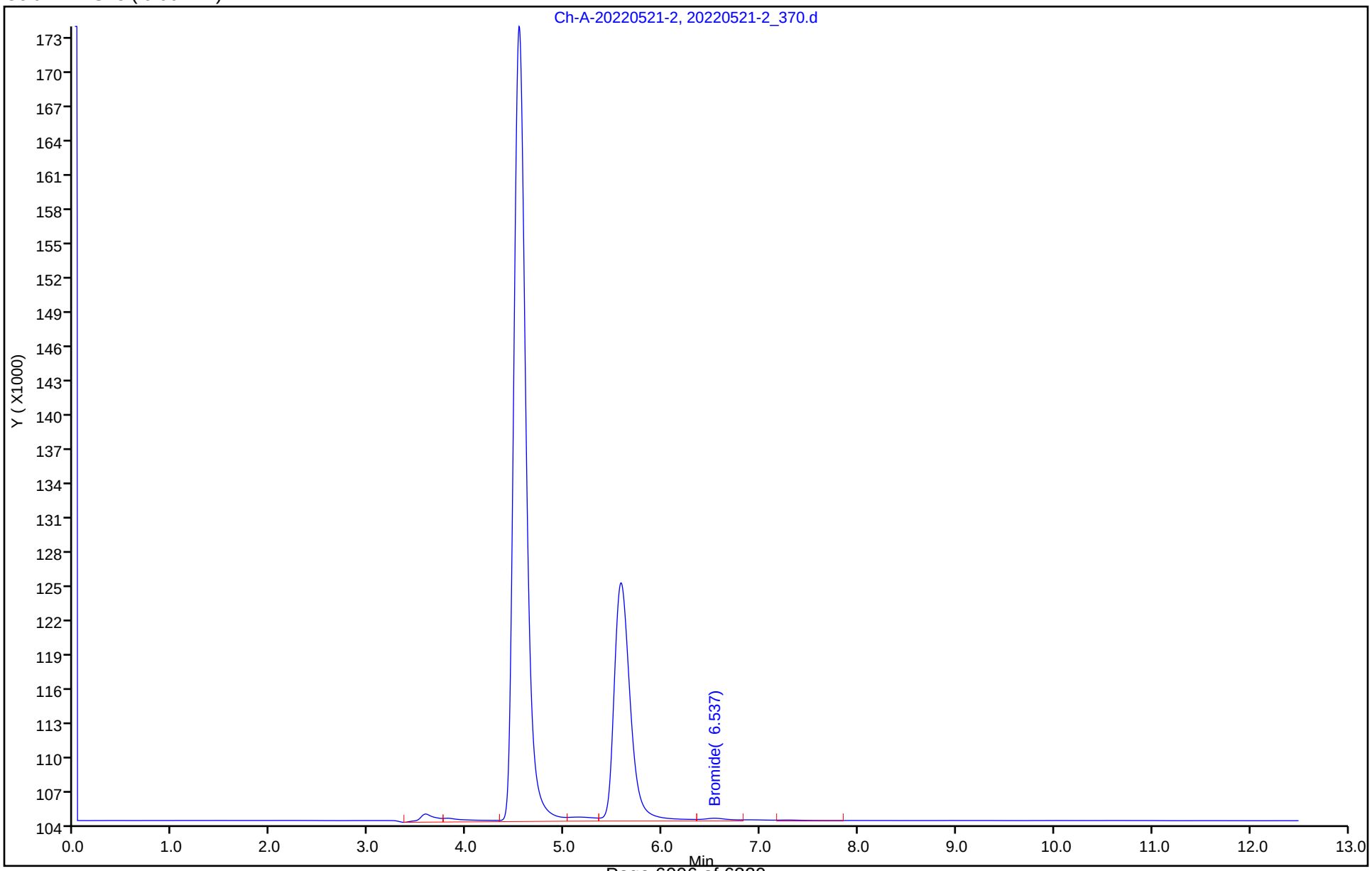
Report Date: 16-Jun-2022 11:44:41 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_370.d

Injection Date:	15-Jun-2022 22:25:09	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	480-198813-L-5	Lab Sample ID:	480-198813-5	Worklist Smp#:	23
Client ID:	MW-3B				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_371.d				
Lims ID:	480-198813-L-6				
Client ID:	MW-4A				
Sample Type:	Client				
Inject. Date:	15-Jun-2022 22:39:18	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	#: 371				
Misc. Info.:	Study: 480-0106097-024 Channel A: I/F Serial#, 6254272415				
Operator ID:	tchrom	Instrument ID:	IC-2		
Method:	\\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\IC2-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	16-Jun-2022 11:44:37	Calib Date:	29-Mar-2022 12:15:57		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1603				
First Level Reviewer: zahniseri		Date:	16-Jun-2022 11:44:11		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
1 Fluoride					
3.580	3.600	-0.020	2716	0.0513	
2 Chloride					
4.523	4.537	-0.014	147821	5.01	
3 Nitrite as N					
5.160	5.123	0.037	4491	NC	
4 Sulfate					
5.583	5.540	0.043	102486	4.60	
5 Bromide					
6.520	6.527	-0.007	2539	0.1586	
6 Nitrate as N					
7.283	7.237	0.046	1282	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

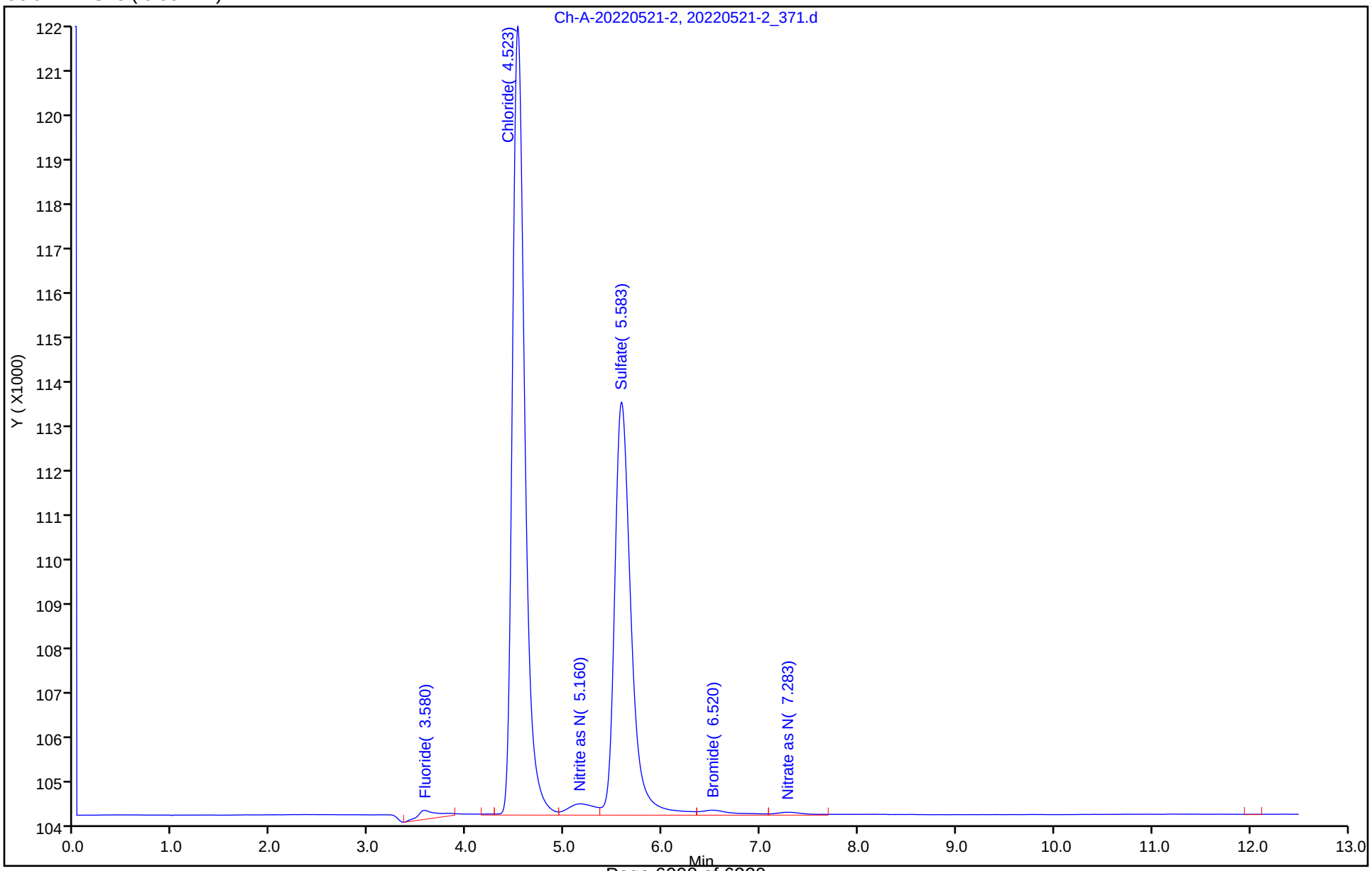
Report Date: 16-Jun-2022 11:44:41 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_371.d

Injection Date:	15-Jun-2022 22:39:18	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	480-198813-L-6	Lab Sample ID:	480-198813-6	Worklist Smp#:	24
Client ID:	MW-4A				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_372.d
Lims ID: 480-198813-L-6 MS
Client ID:
Sample Type: MS
Inject. Date: 15-Jun-2022 22:53:26 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: #: 372
Misc. Info.: Study: 480-0106097-025 Channel A: I/F Serial#, 6254272415
Operator ID: tchrom Instrument ID: IC-2

Method: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\IC2-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 16-Jun-2022 11:44:37 Calib Date: 29-Mar-2022 12:15:57
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1603

First Level Reviewer: zahniseri Date: 16-Jun-2022 11:44:14

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.587	3.600	-0.013	239013	5.01	4.88	
2 Chloride						
4.530	4.537	-0.007	1602924	50.1	54.8	
3 Nitrite as N						
5.120	5.123	-0.003	296926	NC	NC	
4 Sulfate						
5.550	5.540	0.010	1187161	50.0	54.1	
5 Bromide						
6.517	6.527	-0.010	64210	5.01	4.88	
6 Nitrate as N						
7.227	7.237	-0.010	372114	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00004 Amount Added: 250.00 Units: uL

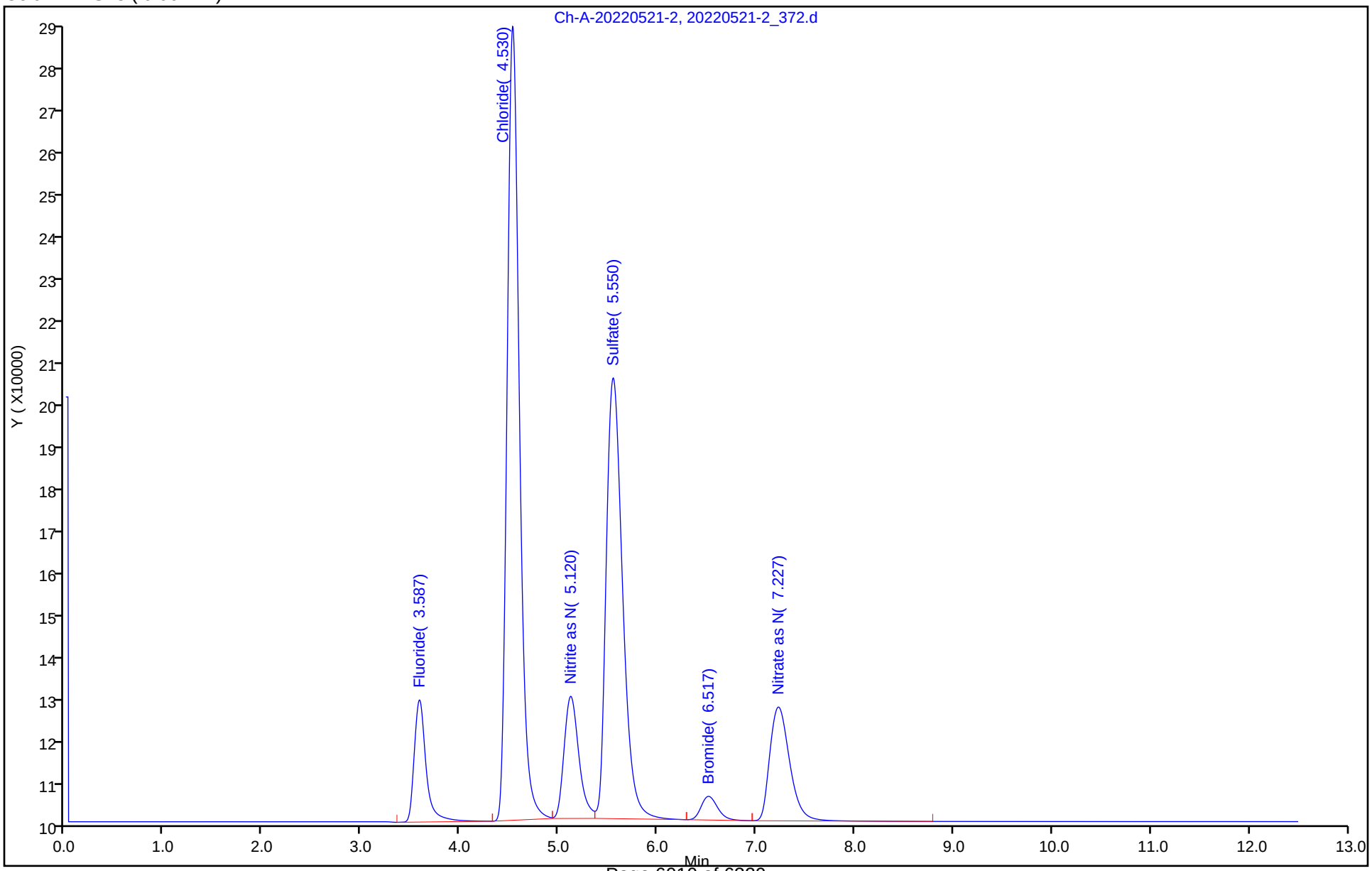
Report Date: 16-Jun-2022 11:44:42 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_372.d

Injection Date:	15-Jun-2022 22:53:26	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	480-198813-L-6 MS			Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_373.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 15-Jun-2022 23:07:35 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 373
Misc. Info.: Study: 480-0106097-026 Channel A: I/F Serial#, 6254272415
Operator ID: tchrom Instrument ID: IC-2
Sublist: chrom-IC2-300*sub7

Method: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\IC2-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 16-Jun-2022 11:44:42 Calib Date: 29-Mar-2022 12:15:57
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1603

First Level Reviewer: zahniseri Date: 16-Jun-2022 11:44:17

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.587	3.587	0.000	242146	5.01	4.95	
2 Chloride						
4.523	4.523	0.000	1477007	50.1	50.5	
3 Nitrite as N						
5.113	5.113	0.000	299548	NC	NC	
4 Sulfate						
5.553	5.553	0.000	1103287	50.0	50.3	
5 Bromide						
6.520	6.520	0.000	63730	5.01	4.85	
6 Nitrate as N						
7.230	7.230	0.000	375633	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00421 Amount Added: 5.00 Units: mL

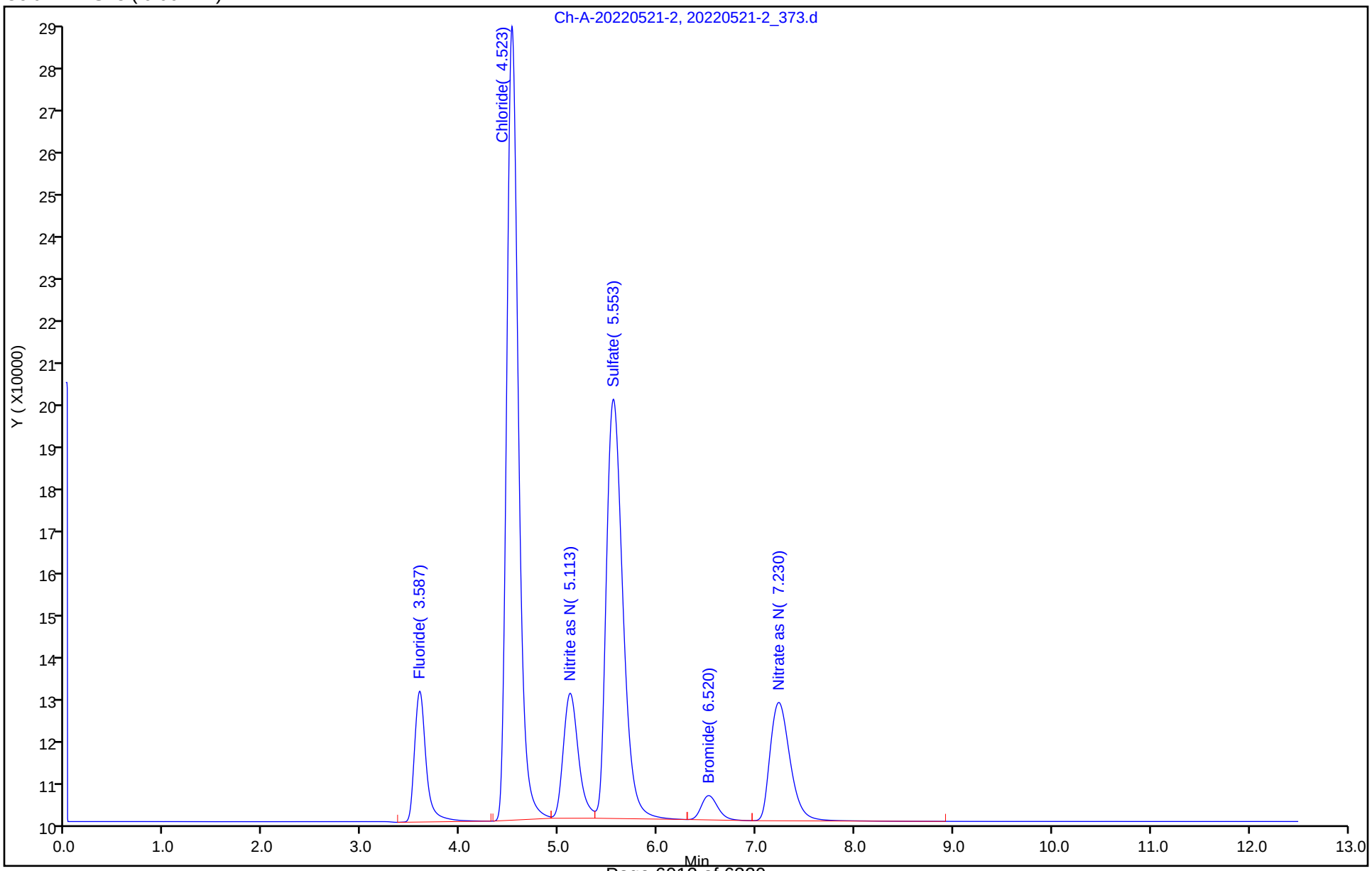
Report Date: 16-Jun-2022 11:44:43 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_373.d

Injection Date:	15-Jun-2022 23:07:35	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	CCV			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_374.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 15-Jun-2022 23:21:43 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 374
Misc. Info.: Study: 480-0106097-027 Channel A: I/F Serial#, 6254272415
Operator ID: tchrom Instrument ID: IC-2

Method: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\IC2-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 16-Jun-2022 11:44:42 Calib Date: 29-Mar-2022 12:15:57
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-2\20220329-104606.b\20211130-2_285.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1603

First Level Reviewer: zahniseri Date: 16-Jun-2022 11:44:20

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						
4.563	4.523	0.040	2344		0.0286	
3 Nitrite as N						
5.147	5.113	0.034	1161		NC	
4 Sulfate						
5.647	5.553	0.094	1259		-0.0242	
6 Nitrate as N						
7.163	7.230	-0.067	101		NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

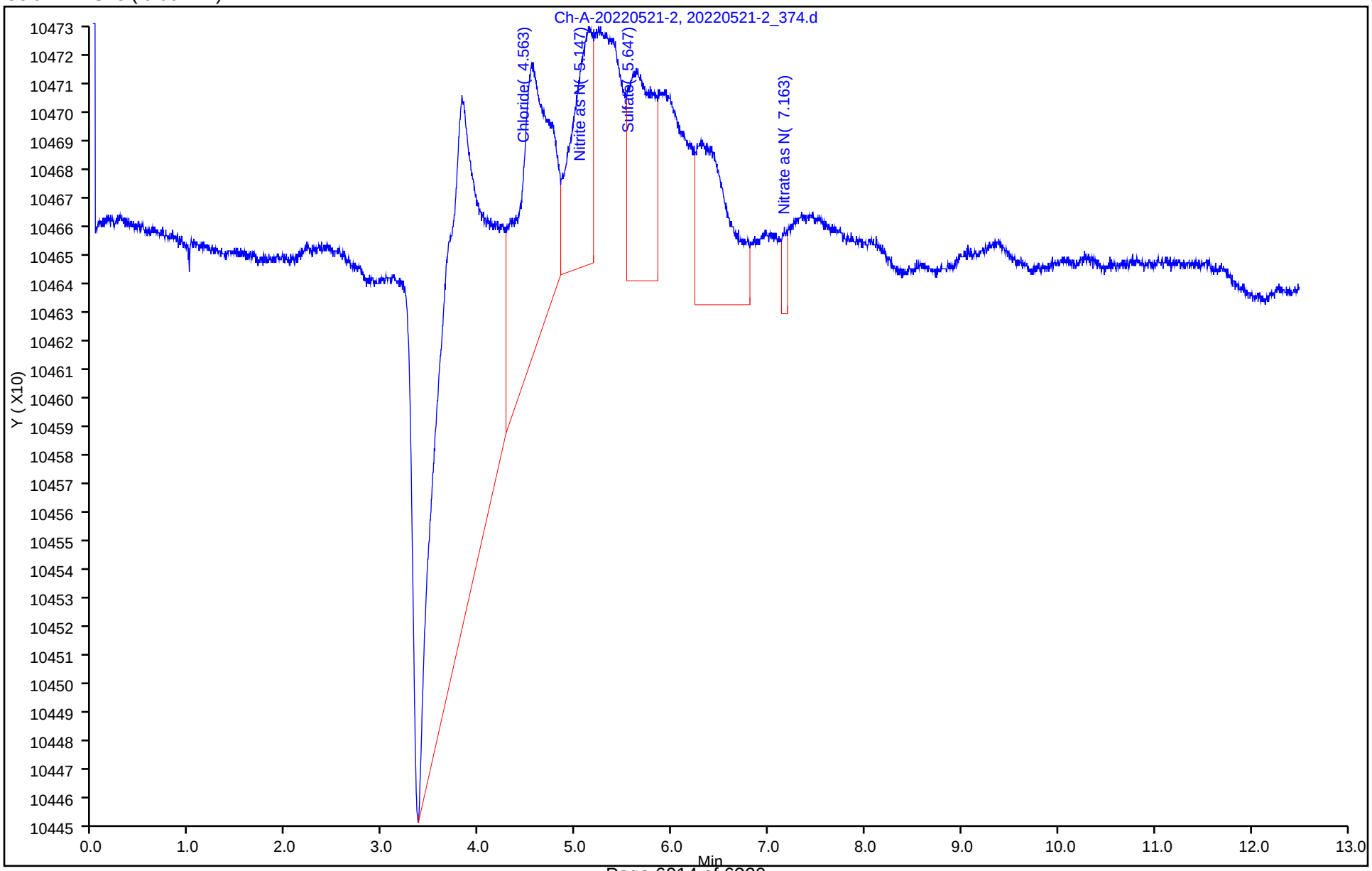
Report Date: 16-Jun-2022 11:44:43 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-2\20220615-106097.b\20220521-2_374.d

Injection Date:	15-Jun-2022 23:21:43	Instrument ID:	IC-2	Operator ID:	tchrom
Lims ID:	CCB			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC2-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



TestAmerica *[Buffalo]*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Ion Chromatography Data Review Checklist

LIMS Batch Number: 61200-603	**Worklist:** 103592	**Instrument ID (circle one):** IC1 IC2 IC5 IC6 VFA1
Analyst/1st Reviewer:	**Method (circle):** 300.0, 314.0, 9056, 7199, SM4110, VFA → 28D+48H	**QC Type (circle):** Standard QAPP Other ICal w/ MDLs
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)		✓		✓	
2. Elution order of analytes in ICAL confirmed to be correct		✓		✓	
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) |x-intercept| < RL or < ½ RL (314.0 or special projects)		✓		✓	
4. ICV, second source: run before samples 90-110% recovery		✓		✓	If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		✓		✓	If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project)		✓		✓	If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	✓			X	If no, list details:
8. Pk Area:Height Difference (314.0 $PD_{A/H}$): Before samples <25%	✓			X	If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?		✓		✓	Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chroms, date, initial, & reason)		✓		✓	Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project) *If no, list blank ID & explain:*		✓		✓	☐ No analyte > RL in associated samples ☐ Sample results >10x blank ☐ Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) *If no, list LCS ID & explain:*		✓		✓	☐ Insufficient sample for reanalysis ☐ LCS %R > QC limits & samples < RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) *If no, list QC ID & explain:*		✓		✓	□ Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		✓		✓	

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data	✓			
a. Unused data is clearly identified	✓		✓	
b. All crossed out data is initialed and dated	✓		✓	
c. Out of control QC is clearly identified	✓		✓	
d. Any data that has a qualifier tick is commented on with appropriate action taken	✓		✓	
e. The first page of the run includes the filename, instrument, and analyst initials/signature	✓		✓	
16. Run Log	✓		✓	
a. Unused data is clearly identified	✓		✓	
b. All crossed out data is initialed and dated	✓		✓	
c. Analyst initials/signature provided	✓		✓	
17. TALS Samples Tab	✓			
a. LIMS Sample IDs / Containers are correct	✓		✓	
b. Method and matrix are correct	✓		✓	
c. Date and time match raw data	✓		✓	
d. Dilutions are correct	✓		✓	
e. Correct suffix designated (where applicable)	✓		✓	
18. TALS Worksheet Tab is complete and correct	✓		✓	
19. TALS Reagent Tab is complete and correct	✓		✓	
20. TALS QC Links Tab is correct	✓		✓	
21. TALS Sample Results Tab	✓			
a. All unused data are marked Rejected or Accepted	✓		✓	
b. All reported analytes are marked Primary or Secondary	✓		✓	
22. TALS Batch Information Screen documentation is complete	✓		✓	
23. TALS Status set to appropriate review level	✓		✓	
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?			✓	
25. Results for samples and QC correct on final report?			✓	
26. Are all necessary scanned documents in TALS?			✓	
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?			✓	

2nd Reviewer: BS **Review Date:** 1/25/22

Comments: _____

Eurofins Environment Testing America
Initial Calibration RF Report

Method: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\IC5-300.m
Instrument: IC-5
Lock State: Unlocked
Integrator: Falcon
No.Compounds:6
Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 24-Jan-2022 16:45:14

Initial Calibration Batches

Ical Batch: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b
Inj Date : 24-Jan-2022 13:52:00, Sublist: chrom-IC5-300*sub2

Limit Group: MB 300.0_28D ICAL

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	Level 7 RF/%Drift	b	M1	Curve	Rse/ Rsd	R^2/ COD	Flags
1 Fluoride	24978220	28359305	27348470	28371761	27919448	27270833	25566533	-111014	27558043	WLinr	4.3	0.998	
	-1.3	4.9	0.0	3.2	1.4	-1.0	-7.2						
2 Chloride	16879250	18875410	17548478	17662196	17443832	17785620	17568579	-325449	17809963	WLinr	3.4	0.999	
	-1.6	6.9	-1.1	-0.7	-2.0	-0.1	-1.3						
4 Bromide	5388860	6701295	6466932	6931405	7103257	7479629	7457035	-90645	7150412	WLinr	4.4	0.998	
	0.7	0.1	-7.0	-2.4	-0.4	4.7	4.4						
5 Sulfate	13805686	14263310	13074166	13042542	12859827	13070746	12871956	460352	13100879	WLinr	3.5	0.999	
	-1.6	7.1	-0.9	-0.6	-1.9	-0.3	-1.8						

Eurofins Environment Testing America
Initial Calibration RT Report

Method: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\IC5-300.m
Instrument: IC-5
Lock State: Unlocked
Integrator: Falcon
No.Compounds:6
Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 24-Jan-2022 16:45:14

Limit Group: MB 300.0_28D ICAL

Averaged ICal Samples:
Level: 5 \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_06.d

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	RT(min.) Level 7	Average RT(min.)	%RSD	Expected RT
1 Fluoride	3.480	3.480	3.480	3.487	3.493	3.503	3.513	3.491	0.377	3.493
2 Chloride	5.090	5.087	5.083	5.077	5.070	5.060	5.040	5.072	0.347	5.070
4 Bromide	8.673	8.660	8.653	8.637	8.620	8.583	8.520	8.621	0.621	8.620
5 Sulfate	9.367	9.347	9.333	9.283	9.207	9.107	8.970	9.230	1.590	9.207

Eurofins Environment Testing America
Initial Calibration RF Report

Method: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\IC5-300.m
Instrument: IC-5
Lock State: Unlocked
Integrator: Falcon
No.Compounds:6
Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 24-Jan-2022 16:45:14

Initial Calibration Batches

Ical Batch: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b
Inj Date : 24-Jan-2022 13:52:00, Sublist: chrom-IC5-300*sub2

Limit Group: MB 9056 ICAL

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	Level 7 RF/%Drift	b	M1	Curve	Rse/ Rsd	R^2/ COD	Flags
1 Fluoride	24978220	28359305	27348470	28371761	27919448	27270833	25566533	-111014	27558043	WLinr	4.3	0.998	
	-1.3	4.9	0.0	3.2	1.4	-1.0	-7.2						
2 Chloride	16879250	18875410	17548478	17662196	17443832	17785620	17568579	-325449	17809963	WLinr	3.4	0.999	
	-1.6	6.9	-1.1	-0.7	-2.0	-0.1	-1.3						
4 Bromide	5388860	6701295	6466932	6931405	7103257	7479629	7457035	-90645	7150412	WLinr	4.4	0.998	
	0.7	0.1	-7.0	-2.4	-0.4	4.7	4.4						
5 Sulfate	13805686	14263310	13074166	13042542	12859827	13070746	12871956	460352	13100879	WLinr	3.5	0.999	
	-1.6	7.1	-0.9	-0.6	-1.9	-0.3	-1.8						

Eurofins Environment Testing America
Initial Calibration RT Report

Method: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\IC5-300.m
Instrument: IC-5
Lock State: Unlocked
Integrator: Falcon
No.Compounds:6
Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 24-Jan-2022 16:45:14

Limit Group: MB 9056 ICAL

Averaged ICal Samples:
Level: 5 \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_06.d

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	RT(min.) Level 7	Average RT(min.)	%RSD	Expected RT
1 Fluoride	3.480	3.480	3.480	3.487	3.493	3.503	3.513	3.491	0.377	3.493
2 Chloride	5.090	5.087	5.083	5.077	5.070	5.060	5.040	5.072	0.347	5.070
4 Bromide	8.673	8.660	8.653	8.637	8.620	8.583	8.520	8.621	0.621	8.620
5 Sulfate	9.367	9.347	9.333	9.283	9.207	9.107	8.970	9.230	1.590	9.207

Eurofins Environment Testing America
Initial Calibration RF Report

Method: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\IC5-300.m
Instrument: IC-5
Lock State: Unlocked
Integrator: Falcon
No.Compounds:6
Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 24-Jan-2022 16:45:14

Initial Calibration Batches

Ical Batch: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b
Inj Date : 24-Jan-2022 13:52:00, Sublist: chrom-IC5-300*sub2

Limit Group: MB 300.0_48HR ICAL

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	Level 7 RF/%Drift	b	M1	Curve	Rse/ Rsd	R^2/ COD	Flags
3 Nitrite as N	36495440	40575210	37885622	38168015	36387357	35770441	32806633	41791	36703546	WLinr	7.1	0.995	
	-2.8	10.0	3.0	3.9	-0.9	-2.6	-10.6						
6 Nitrate as N	34203680	42655050	41293242	43505049	43694193	44970409	44802990	-492970	44121974	WLinr	2.5	0.999	
	-0.1	2.3	-4.2	-0.8	-0.7	2.0	1.6						

Eurofins Environment Testing America
Initial Calibration RT Report

Method: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\IC5-300.m
Instrument: IC-5
Lock State: Unlocked
Integrator: Falcon
No.Compounds:6
Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 24-Jan-2022 16:45:14

Limit Group: MB 300.0_48HR ICAL

Averaged ICal Samples:
Level: 5 \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_06.d

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	RT(min.) Level 7	Average RT(min.)	%RSD	Expected RT
3 Nitrite as N	6.227	6.220	6.220	6.217	6.220	6.217	6.203	6.218	0.115	6.220
6 Nitrate as N	10.053	10.037	10.027	9.987	9.937	9.867	9.770	9.954	1.044	9.937

Eurofins Environment Testing America
Initial Calibration RF Report

Method: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\IC5-300.m
Instrument: IC-5
Lock State: Unlocked
Integrator: Falcon
No.Compounds:6
Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 24-Jan-2022 16:45:14

Initial Calibration Batches

Ical Batch: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b
Inj Date : 24-Jan-2022 13:52:00, Sublist: chrom-IC5-300*sub2

Limit Group: MB SM4110B ICAL

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	Level 7 RF/%Drift	b	M1	Curve	Rse/ Rsd	R^2/ COD	Flags
1 Fluoride	24978220	28359305	27348470	28371761	27919448	27270833	25566533	-111014	27558043	WLinr	4.3	0.998	
	-1.3	4.9	0.0	3.2	1.4	-1.0	-7.2						
2 Chloride	16879250	18875410	17548478	17662196	17443832	17785620	17568579	-325449	17809963	WLinr	3.4	0.999	
	-1.6	6.9	-1.1	-0.7	-2.0	-0.1	-1.3						
4 Bromide	5388860	6701295	6466932	6931405	7103257	7479629	7457035	-90645	7150412	WLinr	4.4	0.998	
	0.7	0.1	-7.0	-2.4	-0.4	4.7	4.4						
5 Sulfate	13805686	14263310	13074166	13042542	12859827	13070746	12871956	460352	13100879	WLinr	3.5	0.999	
	-1.6	7.1	-0.9	-0.6	-1.9	-0.3	-1.8						

Eurofins Environment Testing America
Initial Calibration RT Report

Method: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\IC5-300.m
Instrument: IC-5
Lock State: Unlocked
Integrator: Falcon
No.Compounds:6
Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 24-Jan-2022 16:45:14

Limit Group: MB SM4110B ICAL

Averaged ICal Samples:
Level: 5 \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_06.d

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	RT(min.) Level 7	Average RT(min.)	%RSD	Expected RT
1 Fluoride	3.480	3.480	3.480	3.487	3.493	3.503	3.513	3.491	0.377	3.493
2 Chloride	5.090	5.087	5.083	5.077	5.070	5.060	5.040	5.072	0.347	5.070
4 Bromide	8.673	8.660	8.653	8.637	8.620	8.583	8.520	8.621	0.621	8.620
5 Sulfate	9.367	9.347	9.333	9.283	9.207	9.107	8.970	9.230	1.590	9.207

Eurofins Environment Testing America
Worklist Report

Worklist Name: 2022 01 24 ICAL
Instrument Name: IC-5
Injection Volume: 1.000
Analysis Type: Semi VOA
Batch Directory: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b
Upload Directory: \\Corptalsapp17\480-BF-RawData\Organics\MS\IC-5
Batch #s: 612600, 612601, 612602, 612603

Worklist Number: 103592
Chrom Method: IC5-300
Units: ul

1/24/22

Worklist ID	Lims ID	Sample Reagents	Smp Type	Cal Lvl	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103592-001	# 1 Blank		Client		sv	5.000	mL	1.000
480-0103592-002	# 2 IC - STD1	IC_6ANION_STD_00003	IC	1	sv	5.000	mL	1.000
480-0103592-003	# 3 IC - STD2	IC_6ANION_STD_00003	IC	2	sv	5.000	mL	1.000
480-0103592-004	# 4 IC - STD3	IC_6ANION_STD_00003	IC	3	sv	5.000	mL	1.000
480-0103592-005	# 5 IC - STD4	IC_6ANION_STD_00003	IC	4	sv	5.000	mL	1.000
480-0103592-006	# 6 IC - STD5	IC_6ANION_STD_00003	IC	5	sv	5.000	mL	1.000
480-0103592-007	# 7 IC - STD6	IC_6ANION_STD_00003	IC	6	sv	5.000	mL	1.000
480-0103592-008	# 8 IC - STD7	IC_6ANION_STD_00003	IC	7	sv	5.000	mL	1.000
480-0103592-009	# 9 ICV	IC ERA 6_00001	ICV		sv	5.000	mL	1.000
480-0103592-010	#10 ICB		ICB		sv	5.000	mL	1.000
480-0103592-011	#11 LCS	IC_ANION_LCS__00401	LCS		sv	5.000	mL	1.000
480-0103592-012	#12 MB		MB		sv	5.000	mL	1.000
480-0103592-013	#13 480-194129-A-3 MDLS	IC_6ANION_STD_00003	MDLS		sv	5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Cal Lvl	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103592-014	#14 480-194129-A-4 MDLS	IC_6ANION_STD_00003	MDLS		sv	5.000	mL	1.000
480-0103592-015	#15 480-194129-A-5 MDLS	IC_6ANION_STD_00003	MDLS		sv	5.000	mL	1.000
480-0103592-016	#16 CCV	IC_ANION_LCS_00401	CCV		sv	5.000	mL	1.000
480-0103592-017	#17 CCB		CCB		sv	5.000	mL	1.000

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 13_52.d
Lims ID: IC - STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 24-Jan-2022 13:52:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103592-002
Operator ID: Instrument ID: IC-5
Sublist: chrom-IC5-300*sub2

Method: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 25-Jan-2022 10:08:37 Calib Date: 24-Jan-2022 15:43:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_43.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1686

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.480	3.493	-0.013	1248911	0.0500	0.0493	
2 Chloride						
5.090	5.070	0.020	8439625	0.5000	0.4921	
3 Nitrite as N						
6.227	6.220	0.007	1824772	NC	NC	
4 Bromide						
8.673	8.620	0.053	269443	0.0500	0.0504	
5 Sulfate						
9.367	9.207	0.160	6902843	0.5000	0.4918	
6 Nitrate as N						
10.053	9.937	0.116	1710184	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00003 Amount Added: 2.50 Units: uL

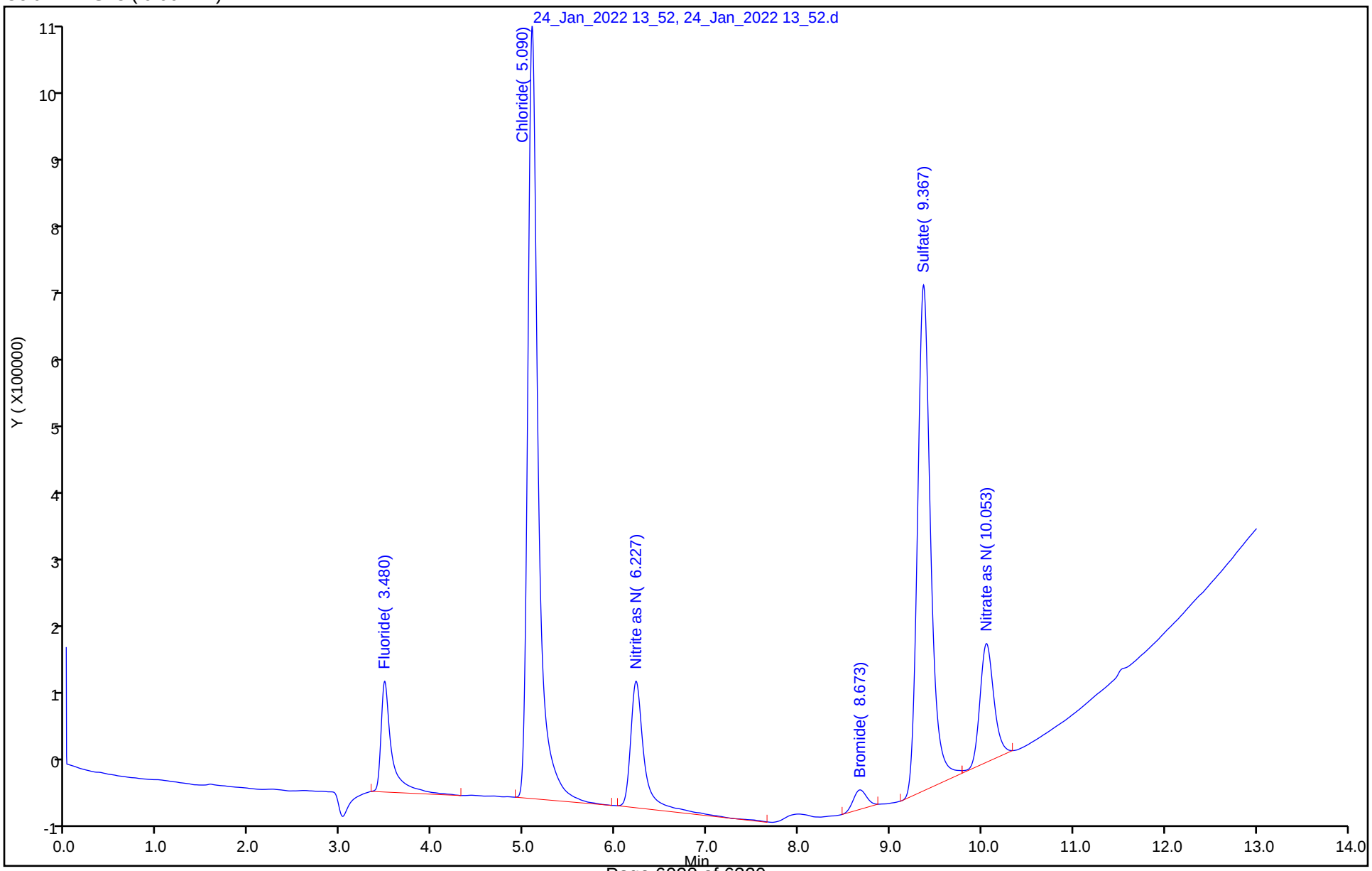
Report Date: 25-Jan-2022 10:08:37 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 13_52.d

Injection Date:	24-Jan-2022 13:52:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	IC - STD1			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 14_10.d
Lims ID: IC - STD2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 24-Jan-2022 14:10:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103592-003
Operator ID: Instrument ID: IC-5
Sublist: chrom-IC5-300*sub2

Method: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 25-Jan-2022 10:08:38 Calib Date: 24-Jan-2022 15:43:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_43.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1686

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.480	3.493	-0.013	5671861	0.2000	0.2098	
2 Chloride						
5.087	5.070	0.017	37750820	2.00	2.14	
3 Nitrite as N						
6.220	6.220	0.000	8115042	NC	NC	
4 Bromide						
8.660	8.620	0.040	1340259	0.2000	0.2001	
5 Sulfate						
9.347	9.207	0.140	28526619	2.00	2.14	
6 Nitrate as N						
10.037	9.937	0.100	8531010	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00003 Amount Added: 10.00 Units: uL

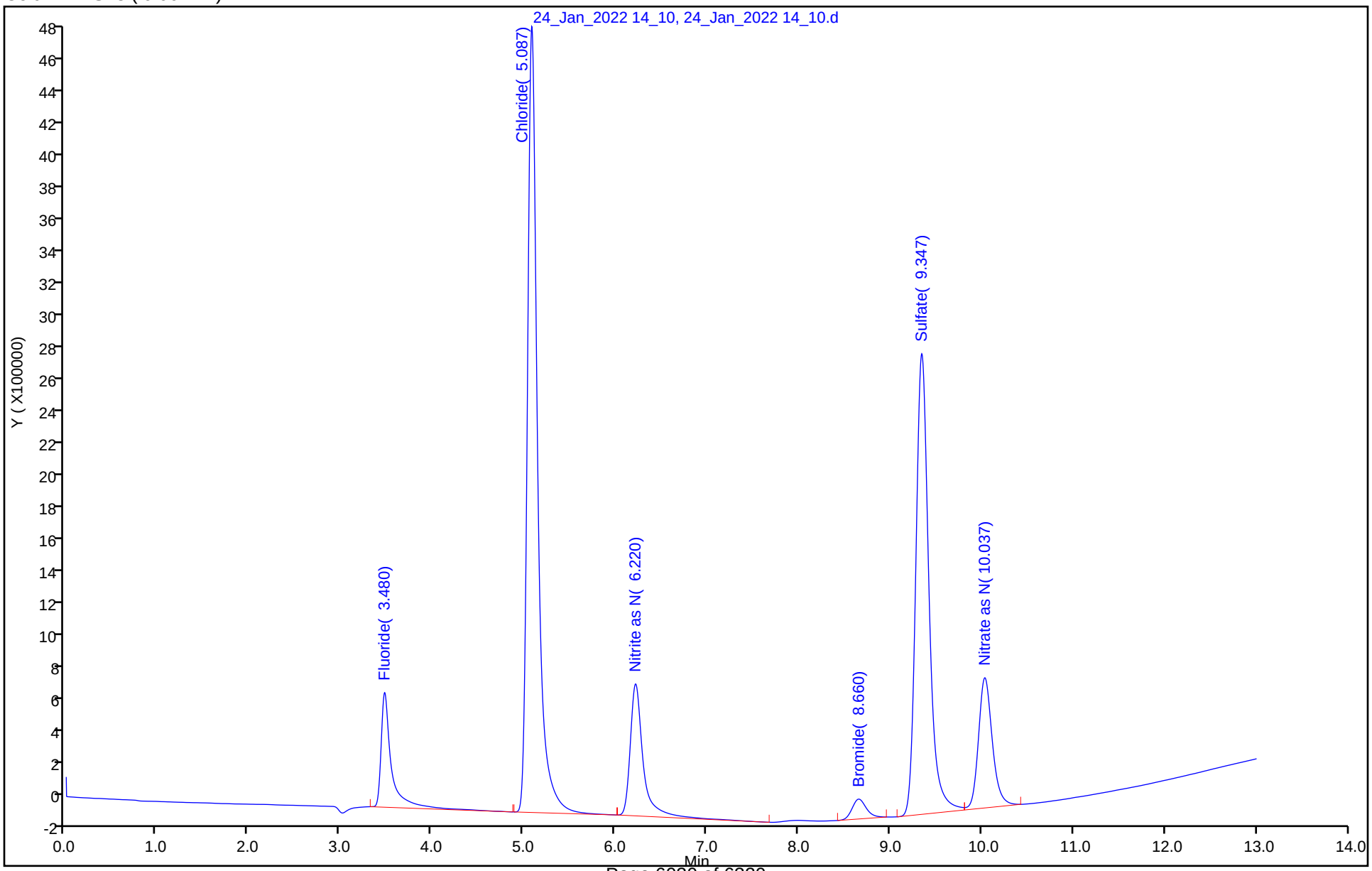
Report Date: 25-Jan-2022 10:08:38 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 14_10.d

Injection Date:	24-Jan-2022 14:10:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	IC - STD2			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 14_29.d
Lims ID: IC - STD3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 24-Jan-2022 14:29:00 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103592-004
Operator ID: Instrument ID: IC-5
Sublist: chrom-IC5-300*sub2

Method: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 25-Jan-2022 10:08:38 Calib Date: 24-Jan-2022 15:43:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_43.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1686

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.480	3.493	-0.013	13674235	0.5000	0.5002	
2 Chloride						
5.083	5.070	0.013	87742392	5.00	4.94	
3 Nitrite as N						
6.220	6.220	0.000	18942811	NC	NC	
4 Bromide						
8.653	8.620	0.033	3233466	0.5000	0.4649	
5 Sulfate						
9.333	9.207	0.126	65370830	5.00	4.95	
6 Nitrate as N						
10.027	9.937	0.090	20646621	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00003 Amount Added: 25.00 Units: uL

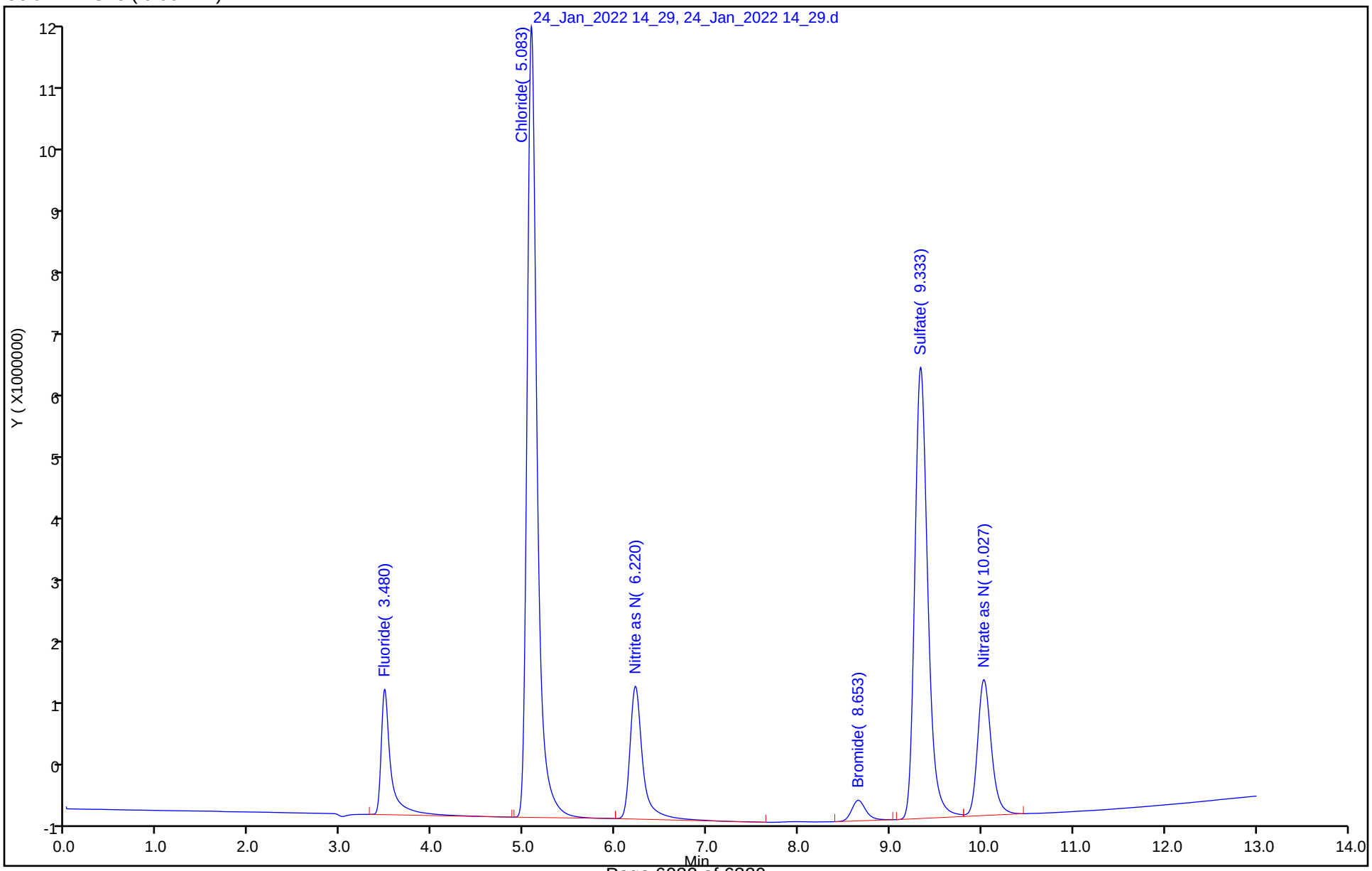
Report Date: 25-Jan-2022 10:08:38 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 14_29.d

Injection Date:	24-Jan-2022 14:29:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	IC - STD3			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 14_47.d
Lims ID: IC - STD4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 24-Jan-2022 14:47:00 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103592-005
Operator ID: Instrument ID: IC-5
Sublist: chrom-IC5-300*sub2

Method: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 25-Jan-2022 10:08:39 Calib Date: 24-Jan-2022 15:43:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_43.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1686

First Level Reviewer: zahniseri Date: 24-Jan-2022 15:11:03

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.487	3.487	0.000	56743522	2.00	2.06	
2 Chloride						
5.077	5.077	0.000	353243920	20.0	19.9	
3 Nitrite as N						
6.217	6.217	0.000	76336030	NC	NC	
4 Bromide						
8.637	8.637	0.000	13862809	2.00	1.95	
5 Sulfate						
9.283	9.283	0.000	260850839	20.0	19.9	
6 Nitrate as N						
9.987	9.987	0.000	87010097	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00003 Amount Added: 100.00 Units: uL

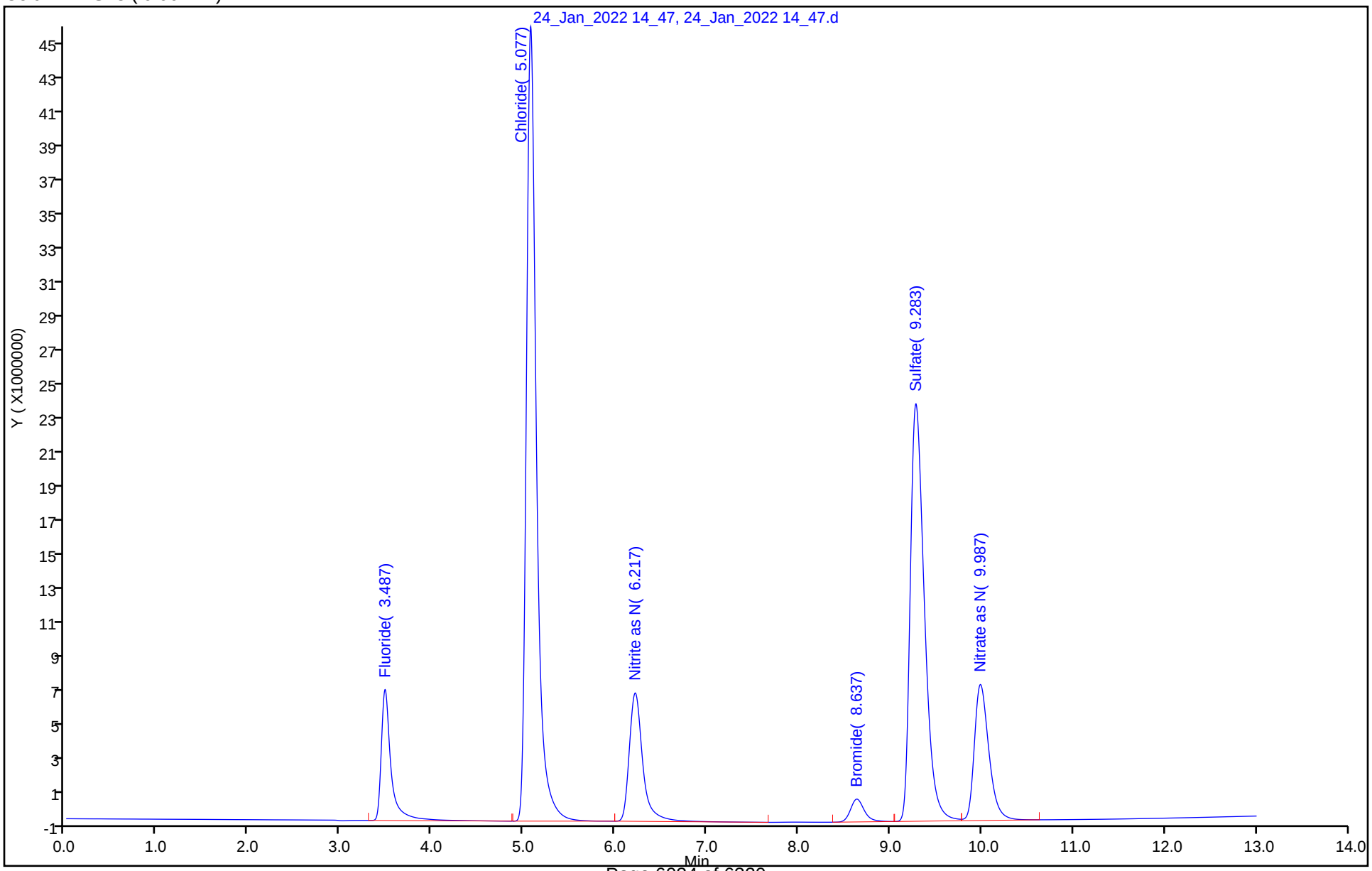
Report Date: 25-Jan-2022 10:08:39 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 14_47.d

Injection Date:	24-Jan-2022 14:47:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	IC - STD4			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_06.d
Lims ID: IC - STD5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 24-Jan-2022 15:06:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103592-006
Operator ID: Instrument ID: IC-5
Sublist: chrom-IC5-300*sub2

Method: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 25-Jan-2022 10:08:40 Calib Date: 24-Jan-2022 15:43:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_43.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1686

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.493	3.493	0.000	139597241	5.00	5.07	
2 Chloride						
5.070	5.070	0.000	872191615	50.0	49.0	
3 Nitrite as N						
6.220	6.220	0.000	181936785	NC	NC	
4 Bromide						
8.620	8.620	0.000	35516286	5.00	4.98	
5 Sulfate						
9.207	9.207	0.000	642991342	50.0	49.0	
6 Nitrate as N						
9.937	9.937	0.000	218470965	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00003 Amount Added: 250.00 Units: uL

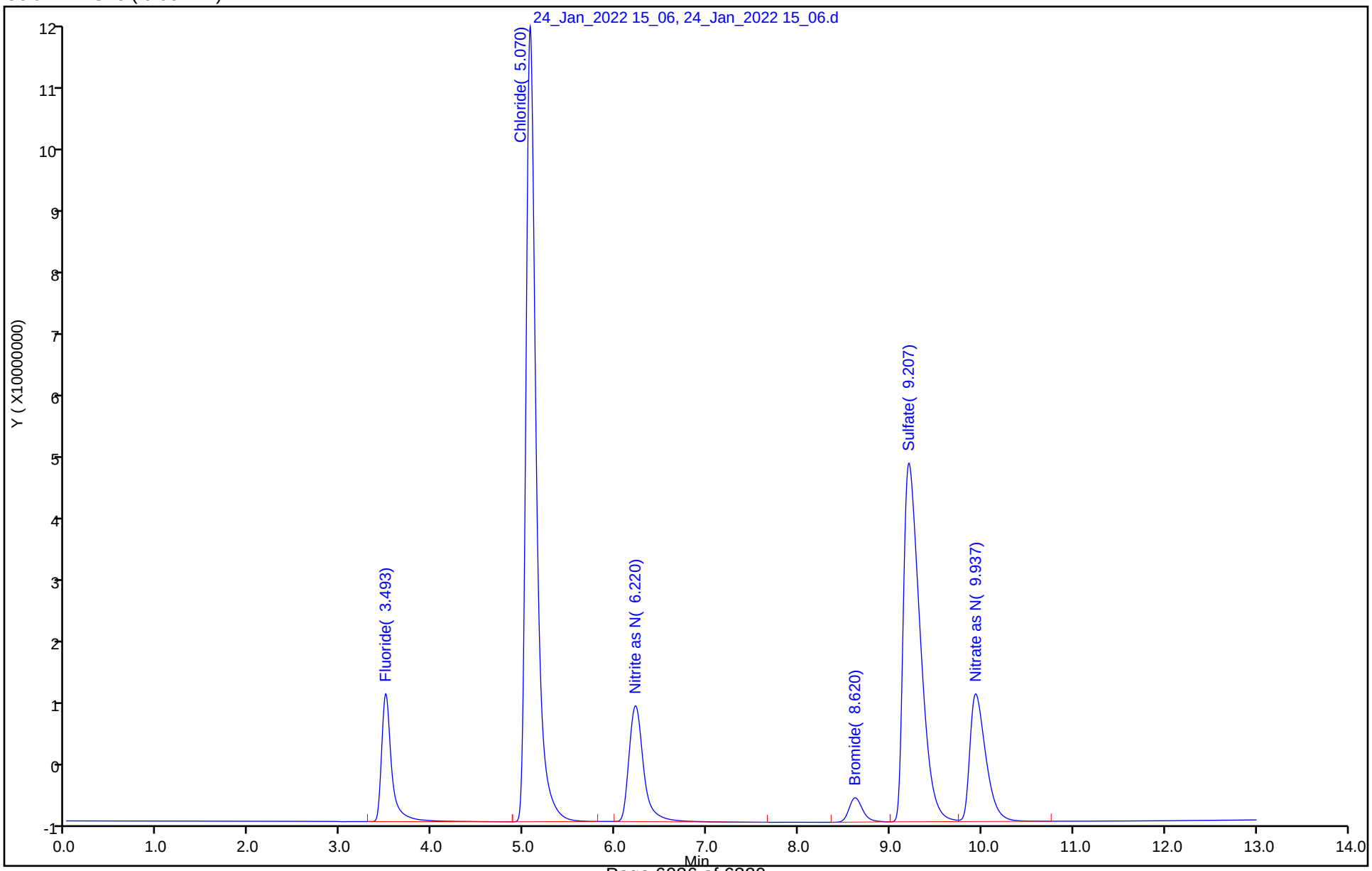
Report Date: 25-Jan-2022 10:08:40 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_06.d

Injection Date:	24-Jan-2022 15:06:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	IC - STD5			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_24.d
Lims ID: IC - STD6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 24-Jan-2022 15:24:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103592-007
Operator ID: Instrument ID: IC-5
Sublist: chrom-IC5-300*sub2

Method: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 25-Jan-2022 10:08:40 Calib Date: 24-Jan-2022 15:43:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_43.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1686

First Level Reviewer: zahniseri Date: 24-Jan-2022 16:20:39

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.503	3.493	0.010	272708326	10.0	9.90	
2 Chloride						
5.060	5.070	-0.010	1778562007	100.0	99.9	
3 Nitrite as N						
6.217	6.220	-0.003	357704405	NC	NC	
4 Bromide						
8.583	8.620	-0.037	74796285	10.0	10.5	
5 Sulfate						
9.107	9.207	-0.100	1307074572	100.0	99.7	
6 Nitrate as N						
9.867	9.937	-0.070	449704087	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00003 Amount Added: 500.00 Units: uL

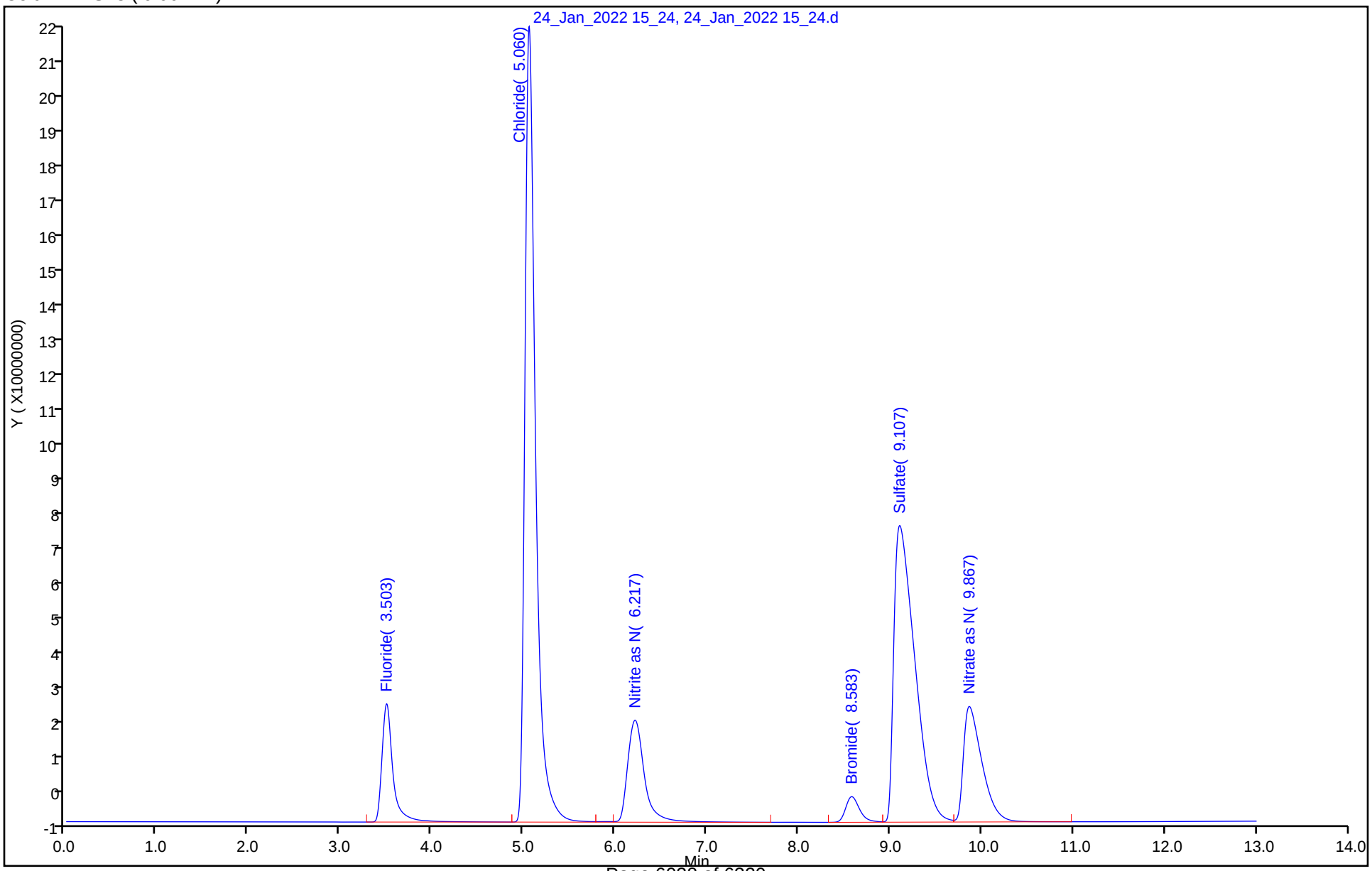
Report Date: 25-Jan-2022 10:08:41 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_24.d

Injection Date:	24-Jan-2022 15:24:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	IC - STD6			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_43.d
Lims ID: IC - STD7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 24-Jan-2022 15:43:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103592-008
Operator ID: Instrument ID: IC-5
Sublist: chrom-IC5-300*sub2

Method: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 25-Jan-2022 10:08:36 Calib Date: 24-Jan-2022 15:43:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_43.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1686

First Level Reviewer: zahniseri Date: 25-Jan-2022 10:08:36

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.513	3.493	0.020	511330654	20.0	18.6	
2 Chloride						
5.040	5.070	-0.030	3513715814	200.0	197.3	
3 Nitrite as N						
6.203	6.220	-0.017	656132661	NC	NC	
4 Bromide						a
8.520	8.620	-0.100	149140700	20.0	20.9	a
5 Sulfate						
8.970	9.207	-0.237	2574391271	200.0	196.5	
6 Nitrate as N						
9.770	9.937	-0.167	896059799	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
a - User Assigned ID

Reagents:

IC_6ANION_STD_00003 Amount Added: 1000.00 Units: uL

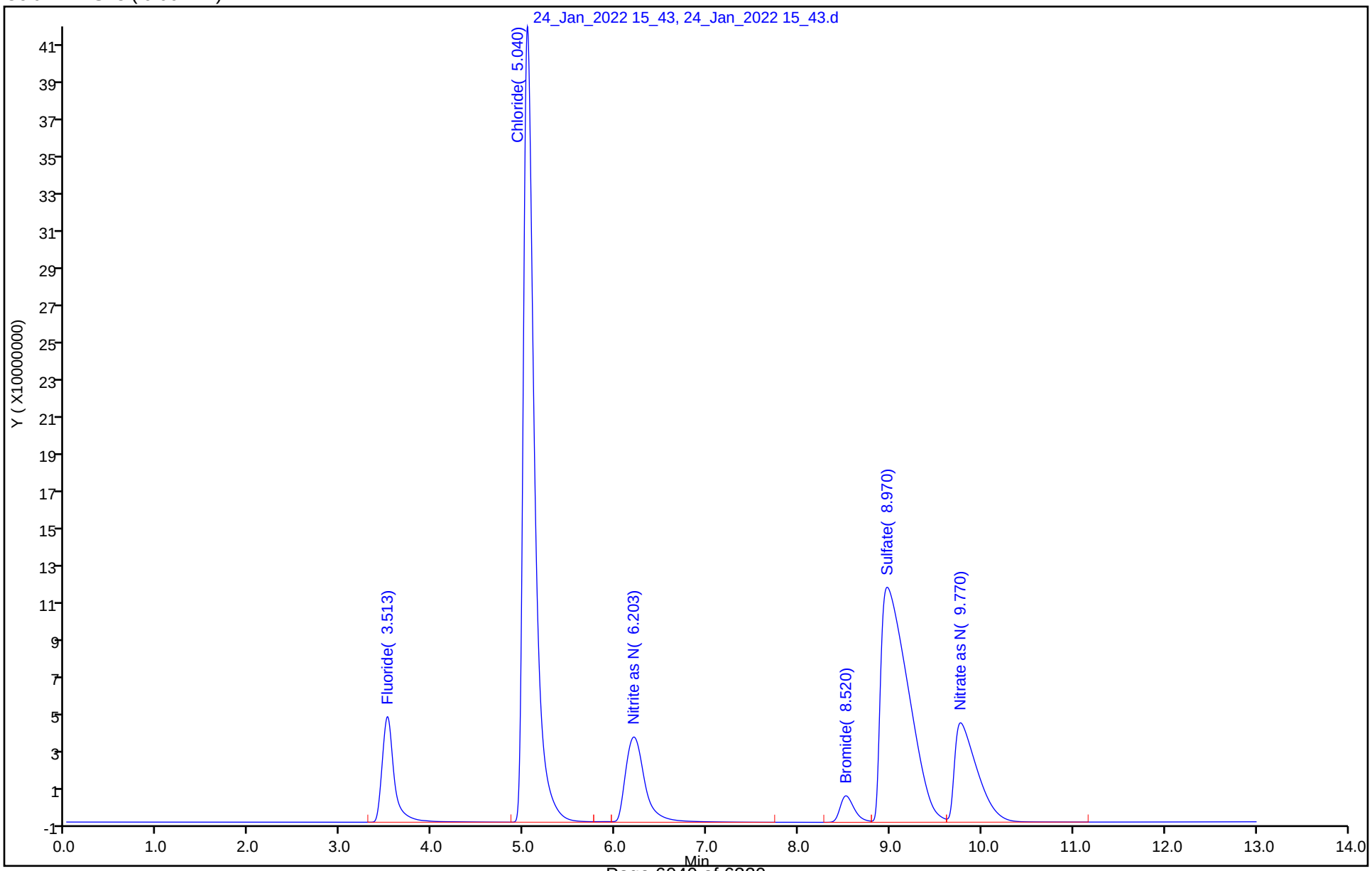
Report Date: 25-Jan-2022 10:08:36 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_43.d

Injection Date:	24-Jan-2022 15:43:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	IC - STD7			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

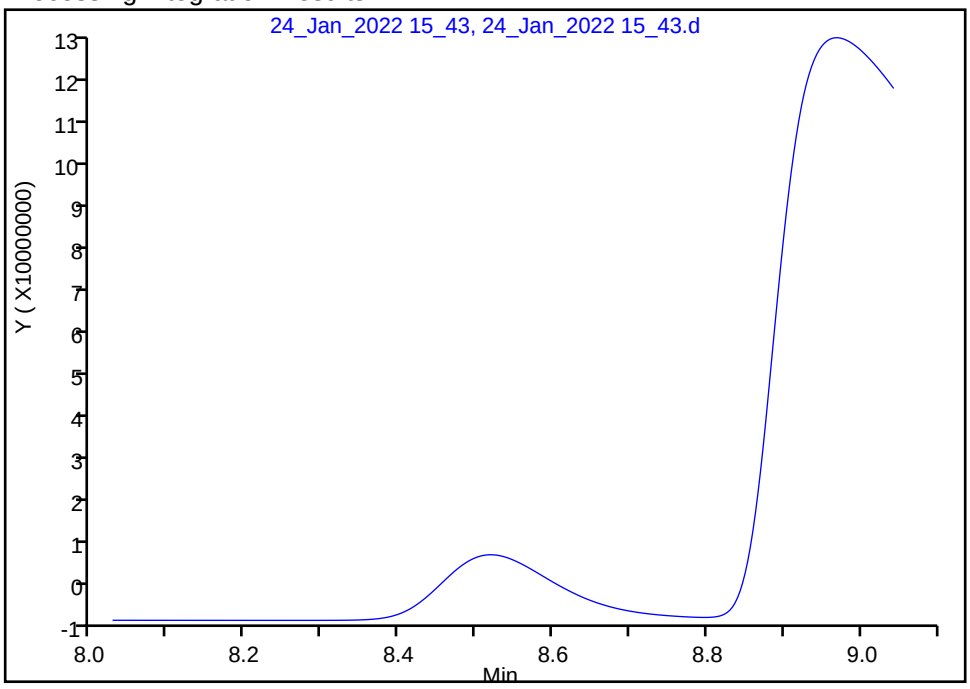
Data File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_43.d
Injection Date: 24-Jan-2022 15:43:00 Instrument ID: IC-5
Lims ID: IC - STD7
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC5-300 Limit Group: MB 300.0_28D ICAL
Column: AS18 (0.00 mm) Detector Ch-A-092410-2

4 Bromide, CAS: 24959-67-9

Signal: 1

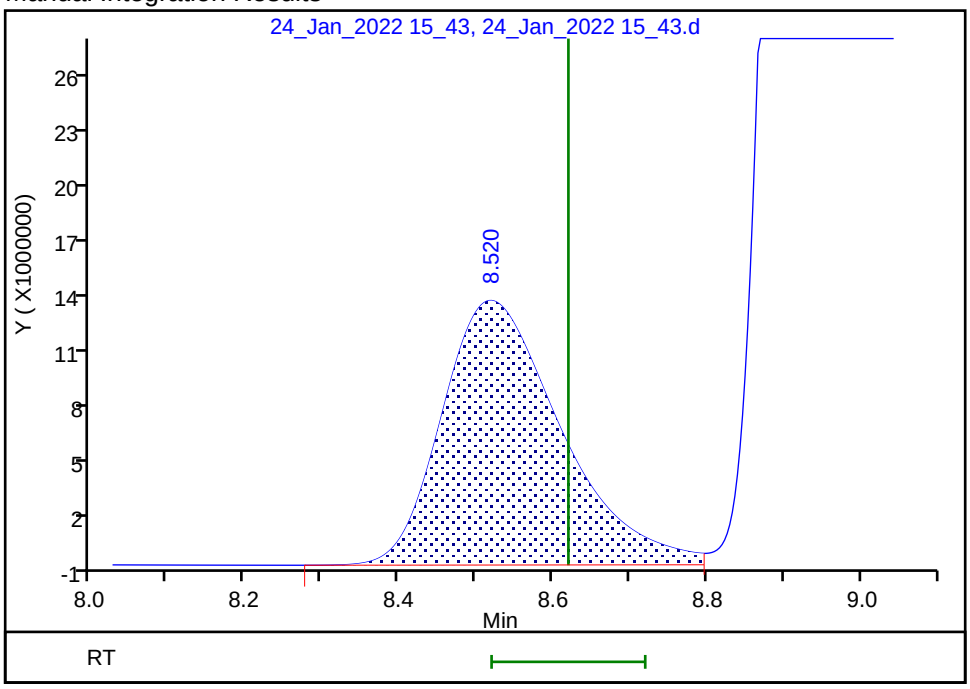
Not Detected
Expected RT: 8.62

Processing Integration Results



Manual Integration Results

RT: 8.52
Area: 149140700
Amount: 20.870314
Amount Units: ng/uL



Reviewer: zahniseri, 24-Jan-2022 16:20:50
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica *[Buffalo]*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Ion Chromatography Data Review Checklist

LIMS Batch Number: 630550-552	Worklist: 106148	Instrument ID (circle one): IC1 IC2 IC5 IC6 VFA1
Analyst/1st Reviewer:	Method (circle): 300.0, 314.0, 9056, 7199, SM4110, VFA	QC Type (circle): Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)				✓	
2. Elution order of analytes in ICAL confirmed to be correct				✓	
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) |x-intercept| < RL or < ½ RL (314.0 or special projects)				✓	
4. ICV, second source: run before samples 90-110% recovery				✓	If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)				✓	If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project)				✓	If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)				✓	If no, list details:
8. Pk Area:Height Difference (314.0 $PD_{A/H}$): Before samples <25%				✓	If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?				✓	Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chroms, date, initial, & reason)				✓	Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project) *If no, list blank ID & explain:*				✓	☐ No analyte > RL in associated samples ☐ Sample results >10x blank ☐ Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) *If no, list LCS ID & explain:*				✓	☐ Insufficient sample for reanalysis ☐ LCS %R > QC limits & samples < RL

Janette 06/21/2012

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) *If no, list QC ID & explain:*				✓	□ Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%				✓	

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data			✓	
a. Unused data is clearly identified			✓	
b. All crossed out data is initialed and dated			✓	
c. Out of control QC is clearly identified			✓	
d. Any data that has a qualifier tick is commented on with appropriate action taken			✓	
e. The first page of the run includes the filename, instrument, and analyst initials/signature			✓	
16. Run Log				
a. Unused data is clearly identified			✓	
b. All crossed out data is initialed and dated			✓	
c. Analyst initials/signature provided			✓	
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct			✓	
b. Method and matrix are correct			✓	
c. Date and time match raw data			✓	
d. Dilutions are correct			✓	
e. Correct suffix designated (where applicable)			✓	
18. TALS Worksheet Tab is complete and correct			✓	
19. TALS Reagent Tab is complete and correct			✓	
20. TALS QC Links Tab is correct			✓	
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted			✓	
b. All reported analytes are marked Primary or Secondary			✓	
22. TALS Batch Information Screen documentation is complete			✓	
23. TALS Status set to appropriate review level			✓	
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?			✓	
25. Results for samples and QC correct on final report?			✓	
26. Are all necessary scanned documents in TALS?			✓	
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?			✓	

2nd Reviewer: Janeffa **Review Date:** 06/21/2022

Comments: _____

Janeffa 06/21/2022

Eurofins Environment Testing America
Worklist Report

Worklist Name: 2022 06 17 A
Instrument Name: IC-5
Injection Volume: 1.000
Analysis Type: Semi VOA
Batch Directory: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b
Upload Directory: \\Corptalsapp17\480-BF-RawData\Organics\MS\IC-5
Batch #s: 630550, 630551, 630552, 630553

Worklist Number: 106148
Chrom Method: IC5-300
Units: ul

6/17/22

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0106148-001	# 1 blank		Client	sv	5.000	mL	1.000
480-0106148-002	# 2 CCV	IC_ANION_LCS__00421	CCV	sv	5.000	mL	1.000
480-0106148-003	# 3 CCB		CCB	sv	5.000	mL	1.000
480-0106148-004	# 4 MB		MB	sv	5.000	mL	1.000
480-0106148-005	# 5 LCS	IC_ANION_LCS__00421	LCS	sv	5.000	mL	1.000
480-0106148-006	# 6 480-198813-L-7		Client	sv	1.000	mL	1.000
480-0106148-007	# 7 480-198813-L-8		Client	sv	1.000	mL	1.000
480-0106148-008	# 8 480-198813-L-9		Client	sv	1.000	mL	1.000
480-0106148-009	# 9 480-198813-L-10		Client	sv	1.000 500uL	mL	2.000 NT
480-0106148-010	#10 480-198863-L-1		Client	sv	1.000	mL	2.000 NT
480-0106148-011	#11 480-198863-L-2		Client	sv	1.000	mL	2.000 NT
480-0106148-012	#12 480-198863-L-2 MS	IC_6ANION_STD_00004	MS	sv	1.000	mL	2.000
480-0106148-013	#13 480-198863-L-2 MSD	IC_6ANION_STD_00004	MSD	sv	1.000	mL	2.000

Janeffa 06/21/2022

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0106148-014	#14 CCV	IC_ANION_LCS__00421	CCV	sv	5.000	mL	1.000
480-0106148-015	#15 CCB		CCB	sv	5.000	mL	1.000
480-0106148-016	#16 480-198866-L-1		Client	sv	1.000	mL	1.000
480-0106148-017	#17 480-198866-L-2		Client	sv	1.000	mL	1.000
480-0106148-018	#18 480-198866-L-3		Client	sv	1.000	mL	1.000
480-0106148-019	#19 480-198890-G-1	163 ug @18.3 1X	Client	sv	1.000	mL	0.0
480-0106148-020	#20 480-198890-G-2	1250 ug @17.8 5X	Client	sv	1.000 200mL /	mL T	0.0
480-0106148-021	#21 480-198890-G-3	479 ug @17.6 2X	Client	sv	1.000 500mL /	mL T	0.0
480-0106148-022	#22 480-198890-G-4	800 ug @17.8 1X	Client	sv	1.000	mL	0.0
480-0106148-023	#23 480-198890-G-5	183 ug @17.9 1X	Client	sv	1.000	mL	0.0
480-0106148-024	#24 480-198890-G-6	229 ug @16.7 1X	Client	sv	1.000	mL	0.0
480-0106148-025	#25 480-198890-G-6 MS	IC_6ANION_STD_00004	MS	sv	1.000	mL	0.0
480-0106148-026	#26 CCV	IC_ANION_LCS__00421	CCV	sv	5.000	mL	1.000
480-0106148-027	#27 CCB		CCB	sv	5.000	mL	1.000
480-0106148-028	#28 MB		MB	sv	5.000	mL	1.000
480-0106148-029	#29 LCS	IC_ANION_LCS__00421	LCS	sv	5.000	mL	1.000
480-0106148-030	#30 480-198894-H-1	602 ug @16.9 2X	Client	sv	1.000 500mL /	mL T	0.0
480-0106148-031	#31 480-198894-H-2	600 ug @17.9 2X	Client	sv	1.000	mL T	0.0

Janeiffa 06/21/2022

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0106148-032	#32 480-198910-C-1	1447µS @17.1 5X	Client	sv	1.000 200mL	mL 1	0.0 T
480-0106148-033	#33 480-198911-C-1	4835µS @17.5 2X	Client	sv	1.000 500mL	mL 1	0.0 SC
480-0106148-034	#34 480-198911-C-2	5455µS @17.8 2X	Client	sv	1.000	mL	0.0 SC
480-0106148-035	#35 480-198911-C-3	4435µS @17.5 2X	Client	sv	1.000	mL	0.0 SC
480-0106148-036	#36 480-198911-C-3 MS	IC_6ANION_STD_00004	MS	sv	1.000	mL	0.0
480-0106148-037	#37 480-198911-C-3 MSD	IC_6ANION_STD_00004	MSD	sv	1.000	mL	0.0
480-0106148-038	#38 CCV	IC_ANION_LCS_00421	CCV	sv	5.000	mL	1.000
480-0106148-039	#39 CCB		CCB	sv	5.000	mL	1.000
480-0106148-040	#40 480-198911-C-4	4995µS @17.6 2X	Client	sv	1.000 500mL	mL 1	0.0 SC
480-0106148-041	#41 480-198911-C-5	4535µS @17.6 2X	Client	sv	1.000	mL	0.0 SC
480-0106148-042	#42 480-198911-C-6	4425µS @18.2 2X	Client	sv	1.000	mL	0.0 SC
480-0106148-043	#43 480-198911-C-7	3865µS @18.1 1X	Client	sv	1.000	mL	0.0
480-0106148-044	#44 280-162989-E-3		Client	sv	1.000	mL	1.000
480-0106148-045	#45 280-162989-E-4	S2 ND/ ND B 620916	Client	sv	1.000	mL	1.000
480-0106148-046	#46 480-198665-C-20	C 5.3/5.2	Client	sv	1.000 200mL	mL 1	5.000 NT
480-0106148-047	#47 480-198665-C-26		Client	sv	1.000 100mL	mL 1	10.00 H
480-0106148-048	#48 480-199027-G-1	8245µS @17.5 5X	Client	sv	1.000 200mL	mL 1	0.0 T
480-0106148-049	#49 480-199027-G-1 MS	IC_6ANION_STD_00004	MS	sv	1.000	mL	0.0

Janelle 06/21/2022

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0106148-050	#50 CCV	IC_ANION_LCS__00421	CCV	sv	5.000	mL	1.000
480-0106148-051	#51 CCB		CCB	sv	5.000	mL	1.000
480-0106148-052	#52 MDLV	IC_6ANION_STD_00004	MDLV	sv	5.000	mL	1.000

06/21/2022

Ion Chromatography Data Review Checklist

LIMS Batch Number: 630550-552	Worklist: 106148	Instrument ID (circle one): IC1 IC2 IC5 IC6 VFA1
Analyst/1st Reviewer:	Method (circle): 300.0, 314.0, 9056, 7199, SM4110, VFA	QC Type (circle): Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)		✓			
2. Elution order of analytes in ICAL confirmed to be correct		✓			
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) |x-intercept| < RL or < ½ RL (314.0 or special projects)		✓			
4. ICV, second source: run before samples 90-110% recovery		✓			If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		✓			If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project)		✓			If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)		✓			If no, list details:
8. Pk Area:Height Difference (314.0 $PD_{A/H}$): Before samples <25%		✓			If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?		✓			Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chroms, date, initial, & reason)		✓			Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project) *If no, list blank ID & explain:*		✓			☐ No analyte > RL in associated samples ☐ Sample results >10x blank ☐ Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) *If no, list LCS ID & explain:*		✓			☐ Insufficient sample for reanalysis ☐ LCS %R > QC limits & samples < RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) *If no, list QC ID & explain:*					□ Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%					

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified				
b. All crossed out data is initialed and dated				
c. Out of control QC is clearly identified				
d. Any data that has a qualifier tick is commented on with appropriate action taken				
e. The first page of the run includes the filename, instrument, and analyst initials/signature				
16. Run Log				
a. Unused data is clearly identified				
b. All crossed out data is initialed and dated				
c. Analyst initials/signature provided				
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct				
b. Method and matrix are correct				
c. Date and time match raw data				
d. Dilutions are correct				
e. Correct suffix designated (where applicable)				
18. TALS Worksheet Tab is complete and correct				
19. TALS Reagent Tab is complete and correct				
20. TALS QC Links Tab is correct				
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted				
b. All reported analytes are marked Primary or Secondary				
22. TALS Batch Information Screen documentation is complete				
23. TALS Status set to appropriate review level				
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ **Review Date:** _____

Comments: _____

Eurofins Environment Testing America
Worklist Report

Worklist Name: 2022 06 17 A
Instrument Name: IC-5
Injection Volume: 1.000
Analysis Type: Semi VOA
Batch Directory: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b
Upload Directory: \\Corptalsapp17\480-BF-RawData\Organics\MS\IC-5
Batch #s: 630550, 630551, 630552, 630553

Worklist Number: 106148
Chrom Method: IC5-300
Units: ul

6/17/22

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0106148-001	# 1 blank		Client	sv	5.000	mL	1.000
480-0106148-002	# 2 CCV	IC_ANION_LCS__00421	CCV	sv	5.000	mL	1.000
480-0106148-003	# 3 CCB		CCB	sv	5.000	mL	1.000
480-0106148-004	# 4 MB		MB	sv	5.000	mL	1.000
480-0106148-005	# 5 LCS	IC_ANION_LCS__00421	LCS	sv	5.000	mL	1.000
480-0106148-006	# 6 480-198813-L-7		Client	sv	1.000	mL	1.000
480-0106148-007	# 7 480-198813-L-8		Client	sv	1.000	mL	1.000
480-0106148-008	# 8 480-198813-L-9		Client	sv	1.000	mL	1.000
480-0106148-009	# 9 480-198813-L-10		Client	sv	1.000	mL	2.000
480-0106148-010	#10 480-198863-L-1		Client	sv	1.000	mL	2.000
480-0106148-011	#11 480-198863-L-2		Client	sv	1.000	mL	2.000
480-0106148-012	#12 480-198863-L-2 MS	IC_6ANION_STD_00004	MS	sv	1.000	mL	2.000
480-0106148-013	#13 480-198863-L-2 MSD	IC_6ANION_STD_00004	MSD	sv	1.000	mL	2.000

500uL 1

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0106148-014	#14 CCV	IC_ANION_LCS__00421	CCV	sv	5.000	mL	1.000
480-0106148-015	#15 CCB		CCB	sv	5.000	mL	1.000
480-0106148-016	#16 480-198866-L-1		Client	sv	1.000	mL	1.000
480-0106148-017	#17 480-198866-L-2		Client	sv	1.000	mL	1.000
480-0106148-018	#18 480-198866-L-3		Client	sv	1.000	mL	1.000
480-0106148-019	#19 480-198890-G-1	163 NS @18.3 1X	Client	sv	1.000	mL	0.0
480-0106148-020	#20 480-198890-G-2	1250NS @17.8 5X	Client	sv	1.000 200mL /	mL	0.0
480-0106148-021	#21 480-198890-G-3	479NS @17.6 2X	Client	sv	1.000 500mL /	mL	0.0
480-0106148-022	#22 480-198890-G-4	800 NS @17.8 1X	Client	sv	1.000	mL	0.0
480-0106148-023	#23 480-198890-G-5	183.4NS @17.9 1X	Client	sv	1.000	mL	0.0
480-0106148-024	#24 480-198890-G-6	329NS @16.7 1X	Client	sv	1.000	mL	0.0
480-0106148-025	#25 480-198890-G-6 MS	IC_6ANION_STD_00004	MS	sv	1.000	mL	0.0
480-0106148-026	#26 CCV	IC_ANION_LCS__00421	CCV	sv	5.000	mL	1.000
480-0106148-027	#27 CCB		CCB	sv	5.000	mL	1.000
480-0106148-028	#28 MB		MB	sv	5.000	mL	1.000
480-0106148-029	#29 LCS	IC_ANION_LCS__00421	LCS	sv	5.000	mL	1.000
480-0106148-030	#30 480-198894-H-1	602NS @16.9 2X	Client	sv	1.000 500mL /	mL	0.0
480-0106148-031	#31 480-198894-H-2	600NS @17.9 2X	Client	sv	1.000	mL	0.0

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0106148-032	#32 480-198910-C-1	1447µS @17.1 5X	Client	sv	1.000 200mL	mL 1	0.0
480-0106148-033	#33 480-198911-C-1	4835µS @17.5 2X	Client	sv	1.000 500mL	mL 1	0.0
480-0106148-034	#34 480-198911-C-2	5455µS @17.8 2X	Client	sv	1.000	mL	0.0
480-0106148-035	#35 480-198911-C-3	4435µS @17.5 2X	Client	sv	1.000	mL	0.0
480-0106148-036	#36 480-198911-C-3 MS	IC_6ANION_STD_00004	MS	sv	1.000	mL	0.0
480-0106148-037	#37 480-198911-C-3 MSD	IC_6ANION_STD_00004	MSD	sv	1.000	mL	0.0
480-0106148-038	#38 CCV	IC_ANION_LCS_00421	CCV	sv	5.000	mL	1.000
480-0106148-039	#39 CCB		CCB	sv	5.000	mL	1.000
480-0106148-040	#40 480-198911-C-4	4995µS @17.6 2X	Client	sv	1.000 500mL	mL 1	0.0
480-0106148-041	#41 480-198911-C-5	4535µS @17.6 2X	Client	sv	1.000	mL	0.0
480-0106148-042	#42 480-198911-C-6	4425µS @18.2 2X	Client	sv	1.000	mL	0.0
480-0106148-043	#43 480-198911-C-7	3865µS @18.1 1X	Client	sv	1.000	mL	0.0
480-0106148-044	#44 280-162989-E-3		Client	sv	1.000	mL	1.000
480-0106148-045	#45 280-162989-E-4		Client	sv	1.000	mL	1.000
480-0106148-046	#46 480-198665-C-20		Client	sv	1.000 200mL	mL 1	5.000
480-0106148-047	#47 480-198665-C-26		Client	sv	1.000 100mL	mL 1	10.00
480-0106148-048	#48 480-199027-G-1	8245µS @17.5 5X	Client	sv	1.000 200mL	mL 1	0.0
480-0106148-049	#49 480-199027-G-1 MS	IC_6ANION_STD_00004	MS	sv	1.000	mL 1	0.0

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0106148-050	#50 CCV	IC_ANION_LCS__00421	CCV	sv	5.000	mL	1.000
480-0106148-051	#51 CCB		CCB	sv	5.000	mL	1.000
480-0106148-052	#52 MDLV	IC_6ANION_STD_00004	MDLV	sv	5.000	mL	1.000

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\17_Jun_2022 17_39.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 17-Jun-2022 17:39:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0106148-002
Operator ID: Instrument ID: IC-5
Sublist: chrom-IC5-300*sub2

Method: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 20-Jun-2022 10:29:19 Calib Date: 24-Jan-2022 15:43:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_43.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1669

First Level Reviewer: zahniseri Date: 20-Jun-2022 10:24:01

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.460	3.460	0.000	142317437	5.01	5.17	
2 Chloride						
4.973	4.973	0.000	869591187	50.1	48.8	
3 Nitrite as N						
6.000	6.000	0.000	183726233	NC	NC	
4 Bromide						
8.153	8.153	0.000	36114089	5.01	5.06	
5 Sulfate						
8.757	8.757	0.000	640274507	50.0	48.8	
6 Nitrate as N						
9.353	9.353	0.000	221966625	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00421 Amount Added: 5.00 Units: mL

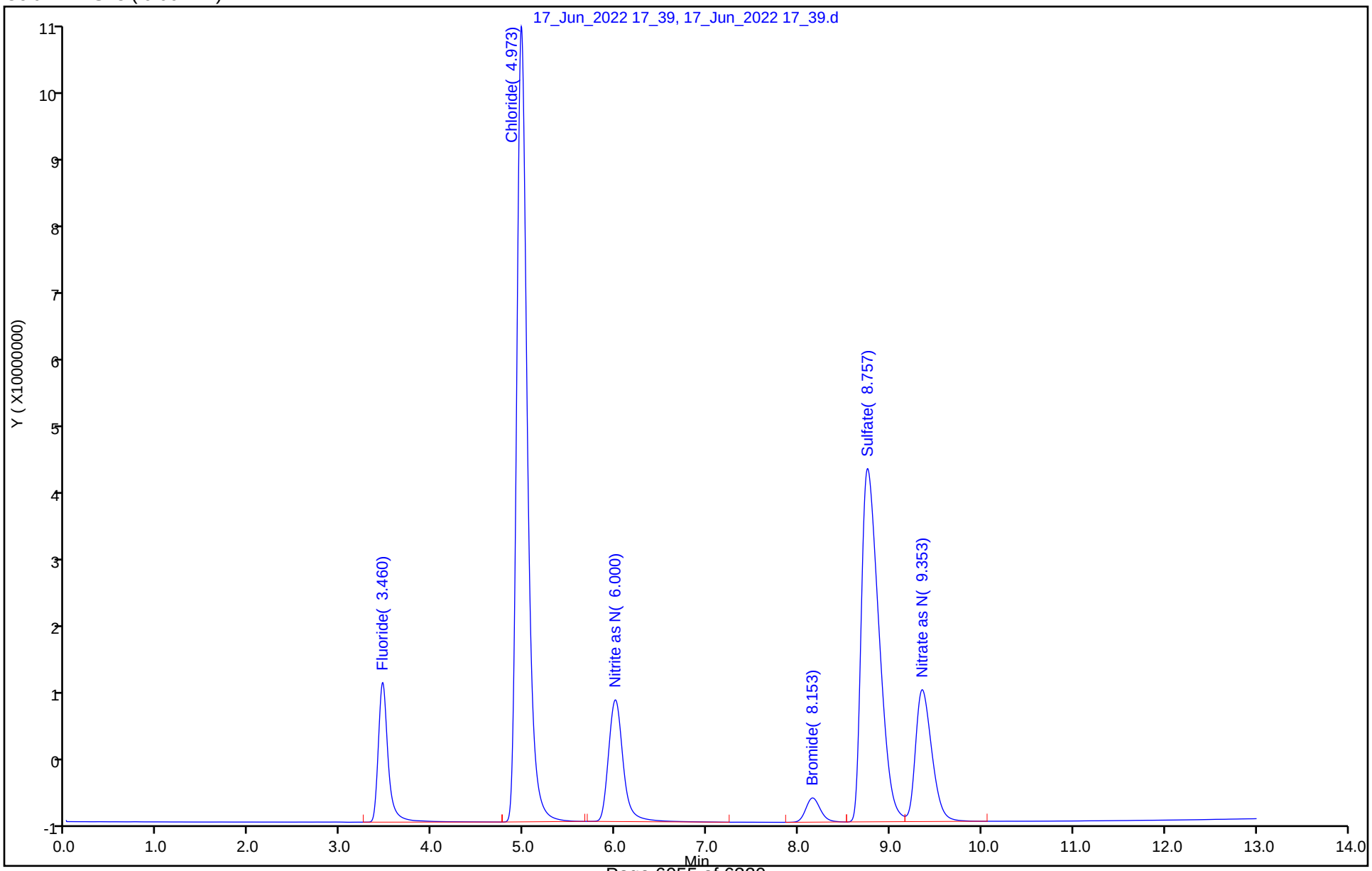
Report Date: 20-Jun-2022 10:29:19 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\17_Jun_2022 17_39.d

Injection Date:	17-Jun-2022 17:39:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	CCV			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\17_Jun_2022 17_58.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 17-Jun-2022 17:58:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0106148-003
Operator ID: Instrument ID: IC-5

Method: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 20-Jun-2022 10:29:19 Calib Date: 24-Jan-2022 15:43:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_43.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1669

First Level Reviewer: zahniseri Date: 20-Jun-2022 10:24:04

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.460	3.460	0.000	70968		0.006604	
2 Chloride						
4.977	4.973	0.004	435022		0.0427	
3 Nitrite as N						
5.987	6.000	-0.013	404599		NC	
5 Sulfate						
8.900	8.757	0.143	73171		-0.0296	
6 Nitrate as N						
9.460	9.353	0.107	69187		NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

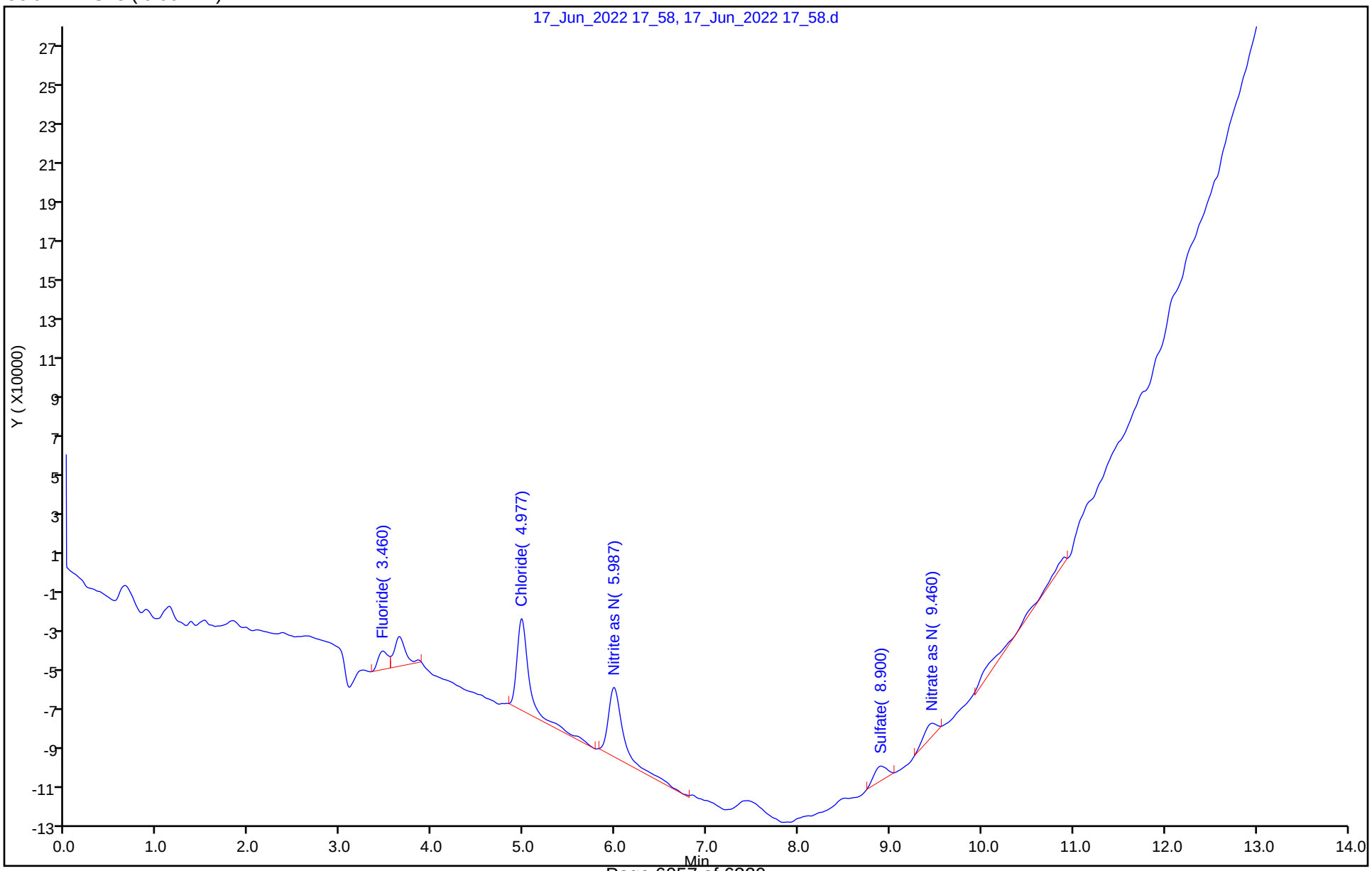
Report Date: 20-Jun-2022 10:29:20 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\17_Jun_2022 17_58.d

Injection Date:	17-Jun-2022 17:58:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	CCB			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\17_Jun_2022 18_16.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 17-Jun-2022 18:16:00 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0106148-004
Operator ID: Instrument ID: IC-5

Method: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 20-Jun-2022 10:29:19 Calib Date: 24-Jan-2022 15:43:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_43.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1669

First Level Reviewer: zahniseri Date: 20-Jun-2022 10:24:07

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.440	3.460	-0.020	70487		0.006586	
2 Chloride						
4.977	4.973	0.004	402655		0.0409	
3 Nitrite as N						
5.990	6.000	-0.010	280898		NC	
5 Sulfate						
8.917	8.757	0.160	158582		-0.0230	
6 Nitrate as N						
9.433	9.353	0.080	86158		NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

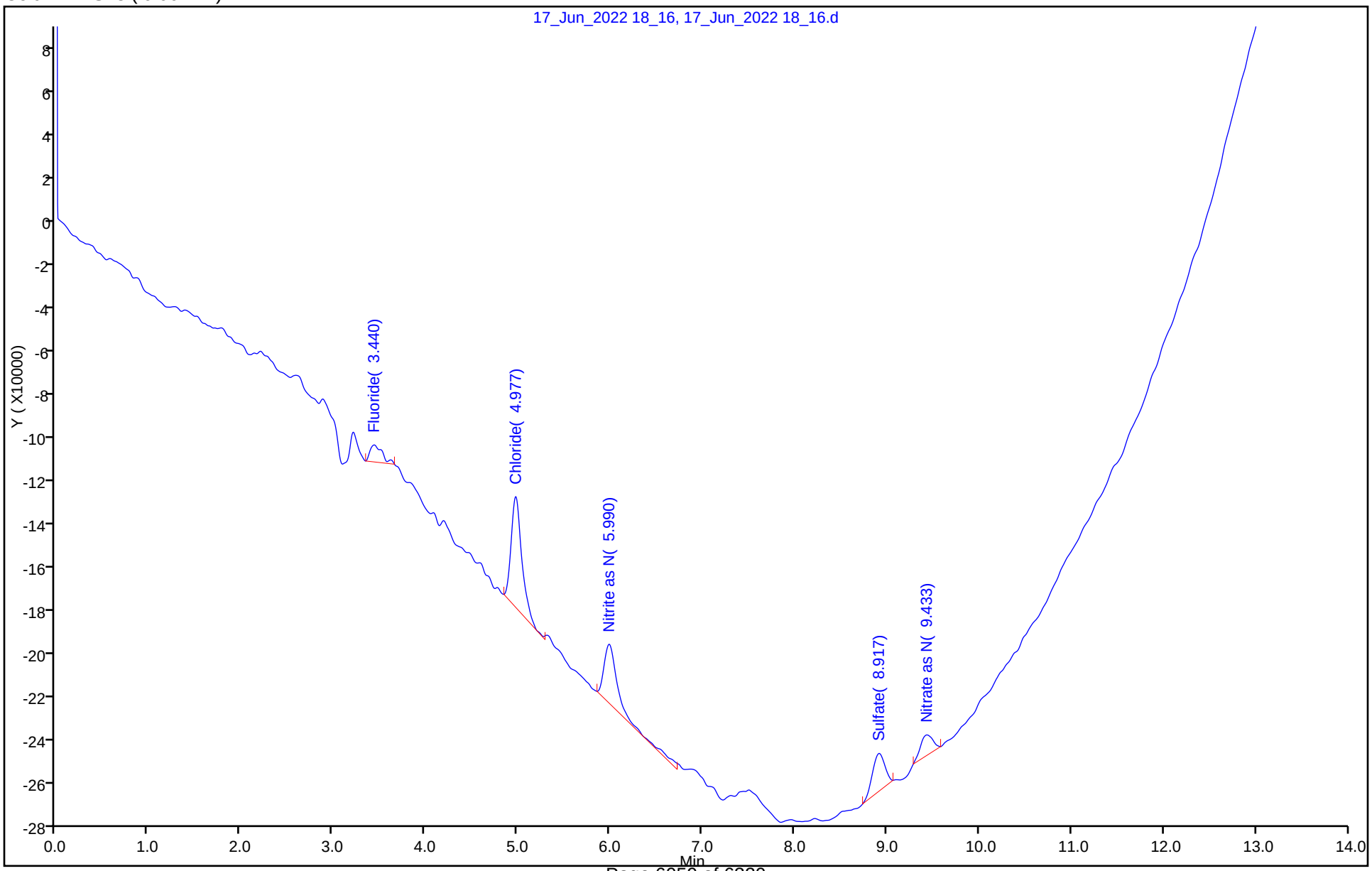
Report Date: 20-Jun-2022 10:29:20 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\17_Jun_2022 18_16.d

Injection Date:	17-Jun-2022 18:16:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	MB			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\17_Jun_2022 18_35.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 17-Jun-2022 18:35:00 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0106148-005
Operator ID: Instrument ID: IC-5

Method: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 20-Jun-2022 10:29:19 Calib Date: 24-Jan-2022 15:43:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_43.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1669

First Level Reviewer: zahniseri Date: 20-Jun-2022 10:24:10

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.463	3.460	0.003	140716430	5.01	5.11	
2 Chloride						
4.977	4.973	0.004	860030297	50.1	48.3	
3 Nitrite as N						
6.003	6.000	0.003	181494870	NC	NC	
4 Bromide						
8.153	8.153	0.000	36148930	5.01	5.07	
5 Sulfate						
8.783	8.757	0.026	632068673	50.0	48.2	
6 Nitrate as N						
9.350	9.353	-0.003	221173770	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00421 Amount Added: 5.00 Units: mL

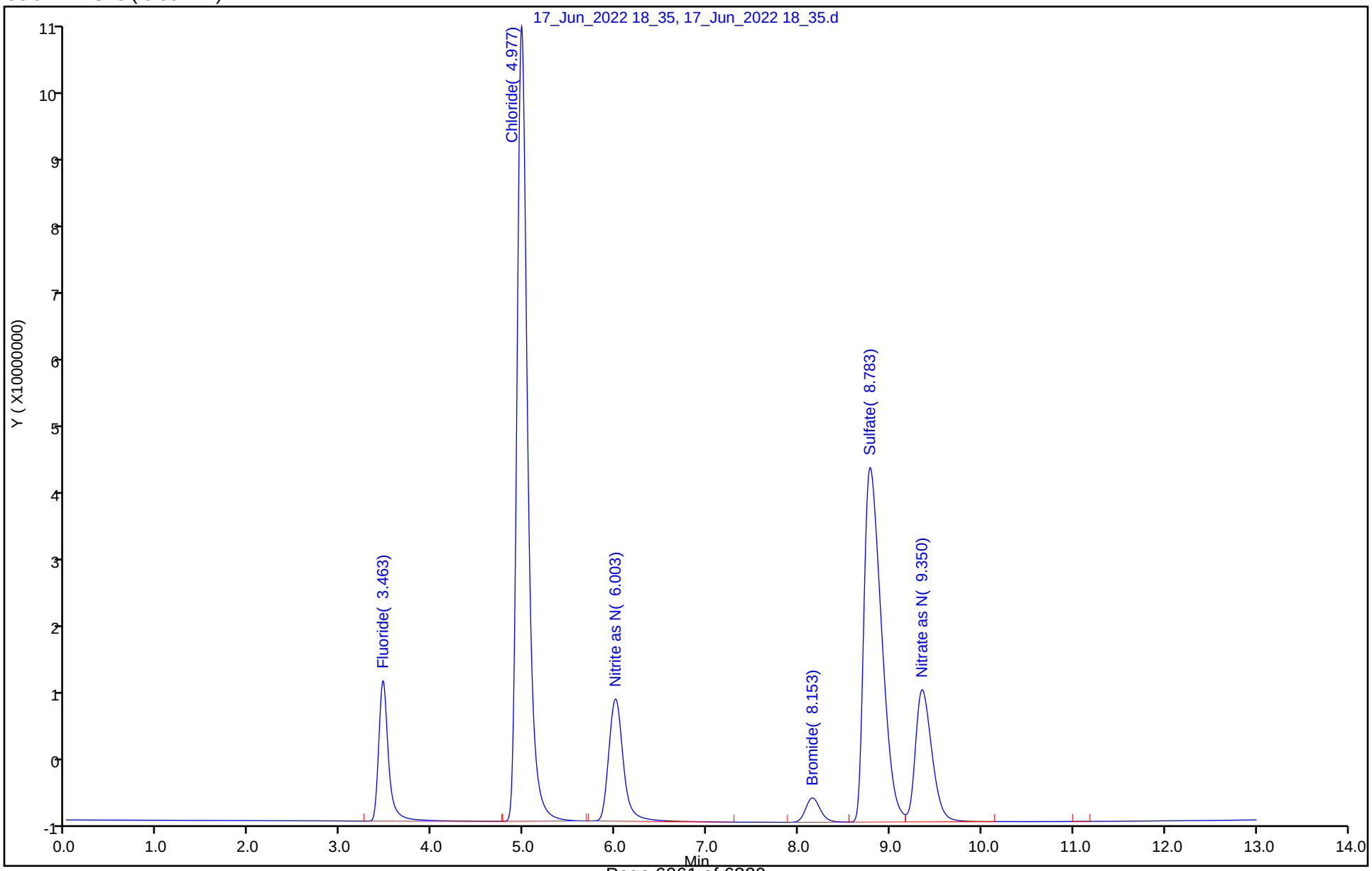
Report Date: 20-Jun-2022 10:29:22 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\17_Jun_2022 18_35.d

Injection Date:	17-Jun-2022 18:35:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	LCS			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\17_Jun_2022 18_54.d				
Lims ID:	480-198813-L-7				
Client ID:	MW-5A				
Sample Type:	Client				
Inject. Date:	17-Jun-2022 18:54:00	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	480-0106148-006				
Operator ID:		Instrument ID:	IC-5		
Method:	\\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\IC5-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	20-Jun-2022 10:29:19	Calib Date:	24-Jan-2022 15:43:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_43.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1669				
First Level Reviewer: zahniseri		Date:	20-Jun-2022 10:24:13		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

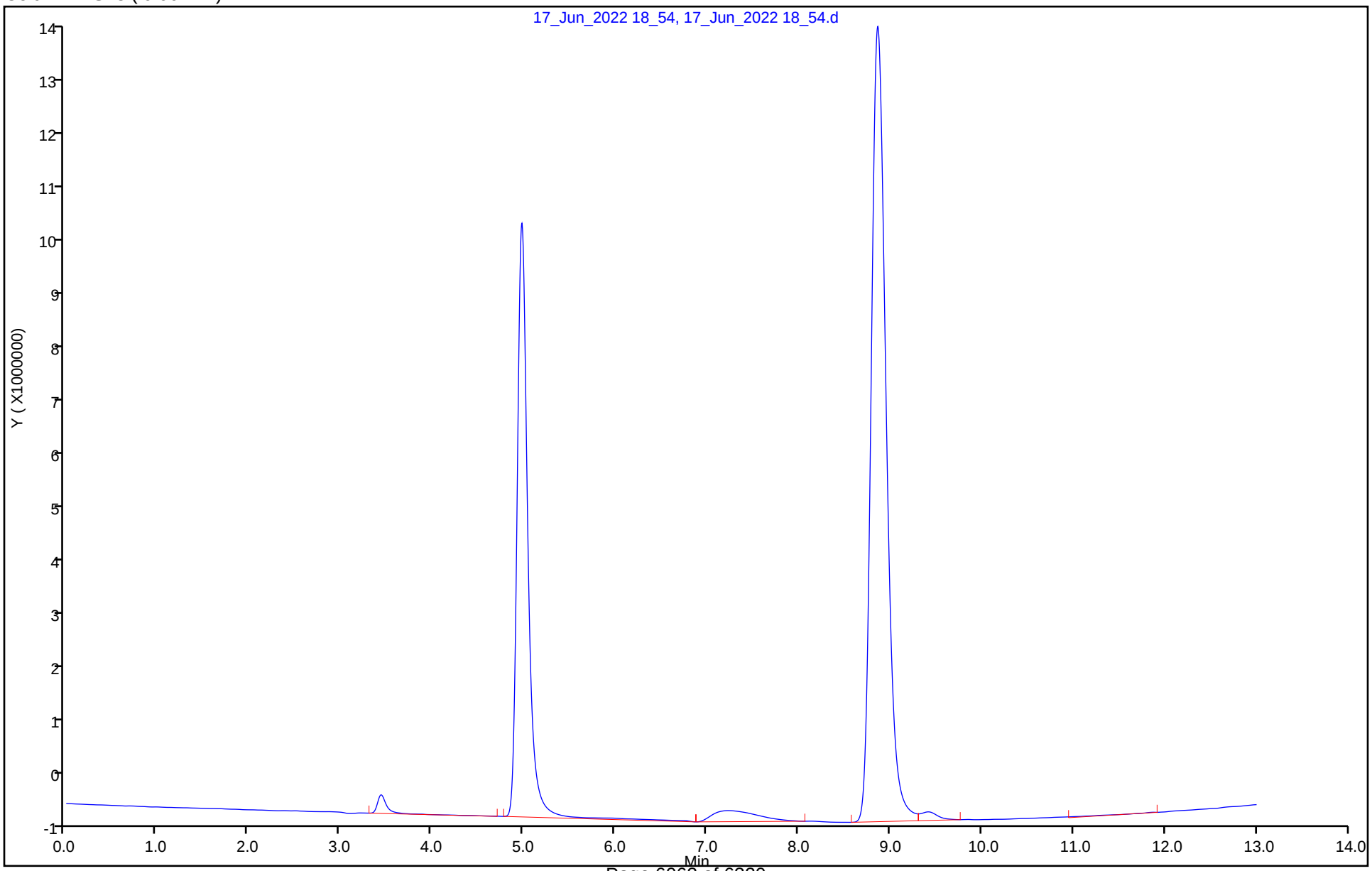
Report Date: 20-Jun-2022 10:29:22 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\17_Jun_2022 18_54.d

Injection Date:	17-Jun-2022 18:54:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	480-198813-L-7	Lab Sample ID:	480-198813-7	Worklist Smp#:	6
Client ID:	MW-5A				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\17_Jun_2022 19_12.d				
Lims ID:	480-198813-L-8				
Client ID:	MW-6A				
Sample Type:	Client				
Inject. Date:	17-Jun-2022 19:12:00	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	480-0106148-007				
Operator ID:		Instrument ID:	IC-5		
Method:	\\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\IC5-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	20-Jun-2022 10:29:19	Calib Date:	24-Jan-2022 15:43:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_43.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1669				

First Level Reviewer: zahniseri Date: 20-Jun-2022 10:24:15

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
4 Bromide					
8.177	8.153	0.024	203067	0.0411	

QC Flag Legend

Processing Flags

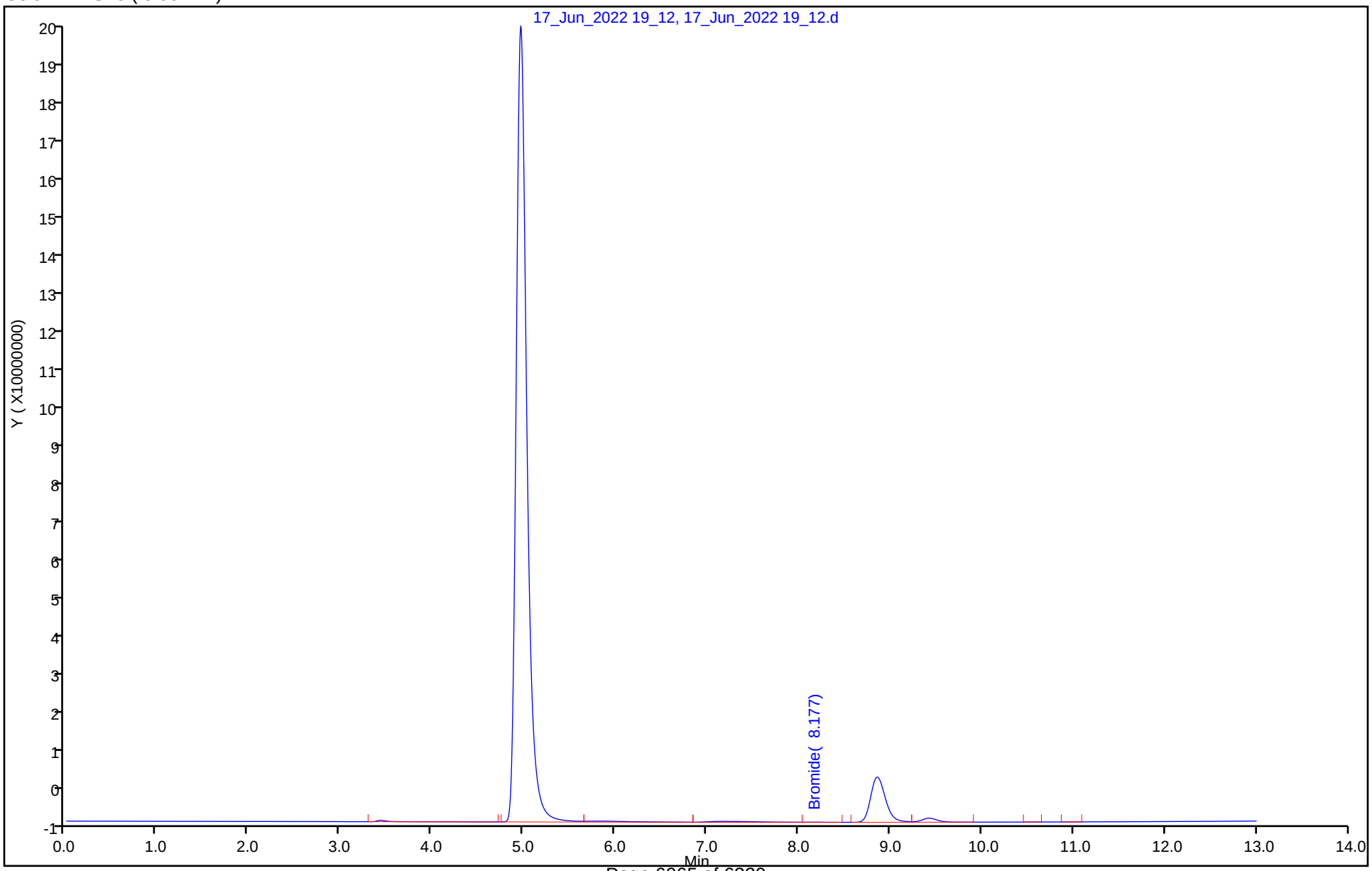
Report Date: 20-Jun-2022 10:29:23 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\17_Jun_2022 19_12.d

Injection Date:	17-Jun-2022 19:12:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	480-198813-L-8	Lab Sample ID:	480-198813-8	Worklist Smp#:	7
Client ID:	MW-6A				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\17_Jun_2022 19_31.d
Lims ID: 480-198813-L-9
Client ID: MW-6B
Sample Type: Client
Inject. Date: 17-Jun-2022 19:31:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0106148-008
Operator ID: Instrument ID: IC-5

Method: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 20-Jun-2022 10:29:19 Calib Date: 24-Jan-2022 15:43:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_43.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1669

First Level Reviewer: zahniseri Date: 20-Jun-2022 10:24:18

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
4 Bromide					
8.170	8.153	0.017	376091	0.0653	

QC Flag Legend
Processing Flags

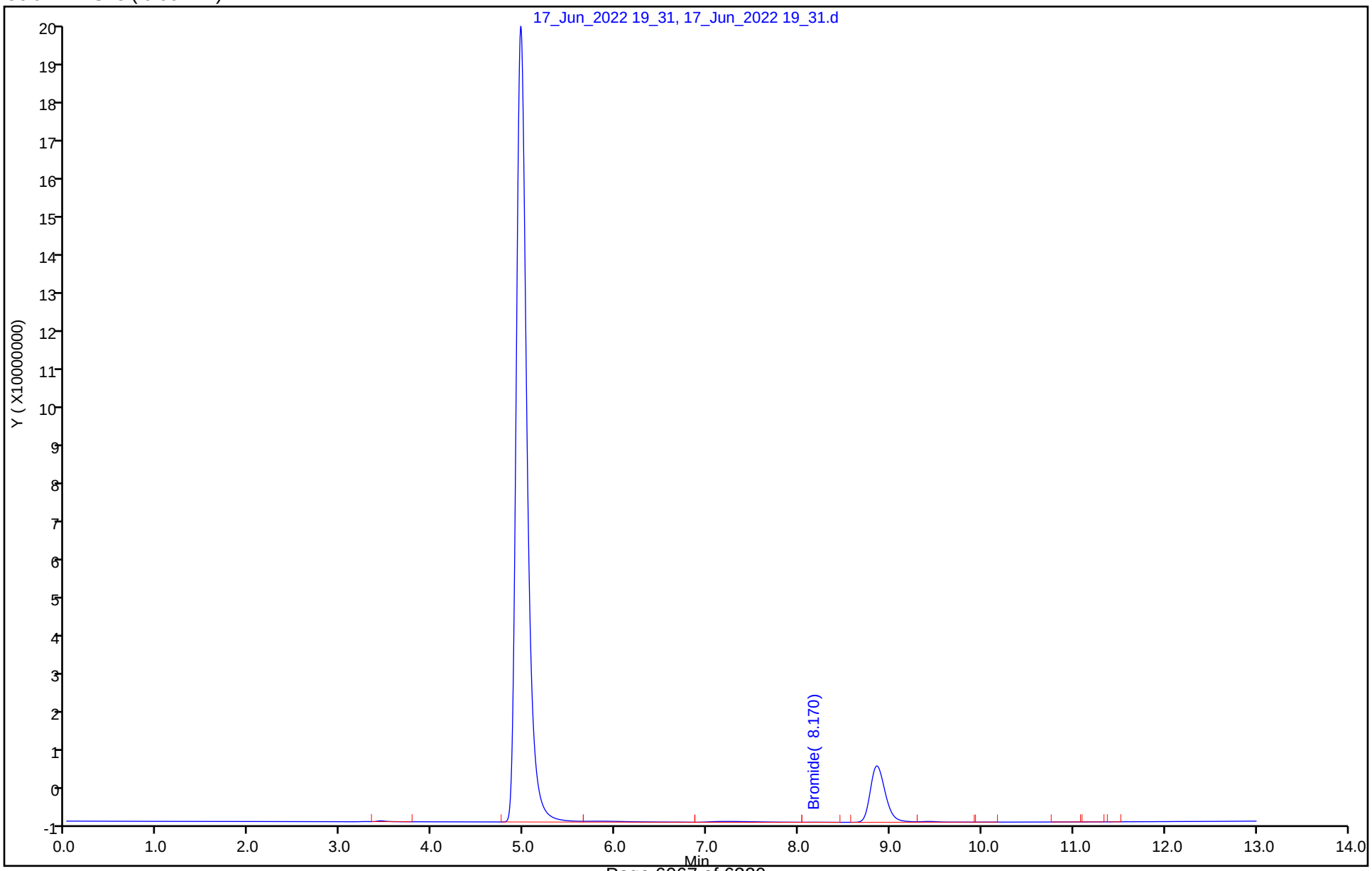
Report Date: 20-Jun-2022 10:29:23 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\17_Jun_2022 19_31.d

Injection Date:	17-Jun-2022 19:31:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	480-198813-L-9	Lab Sample ID:	480-198813-9	Worklist Smp#:	8
Client ID:	MW-6B				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\17_Jun_2022 19_49.d
Lims ID: 480-198813-L-10
Client ID: MW-7A
Sample Type: Client
Inject. Date: 17-Jun-2022 19:49:00 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: 480-0106148-009
Operator ID: Instrument ID: IC-5

Method: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 20-Jun-2022 10:29:19 Calib Date: 24-Jan-2022 15:43:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_43.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1669

First Level Reviewer: zahniseri Date: 20-Jun-2022 10:24:21

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
4 Bromide					
8.180	8.153	0.027	534222	0.0874	

QC Flag Legend
Processing Flags

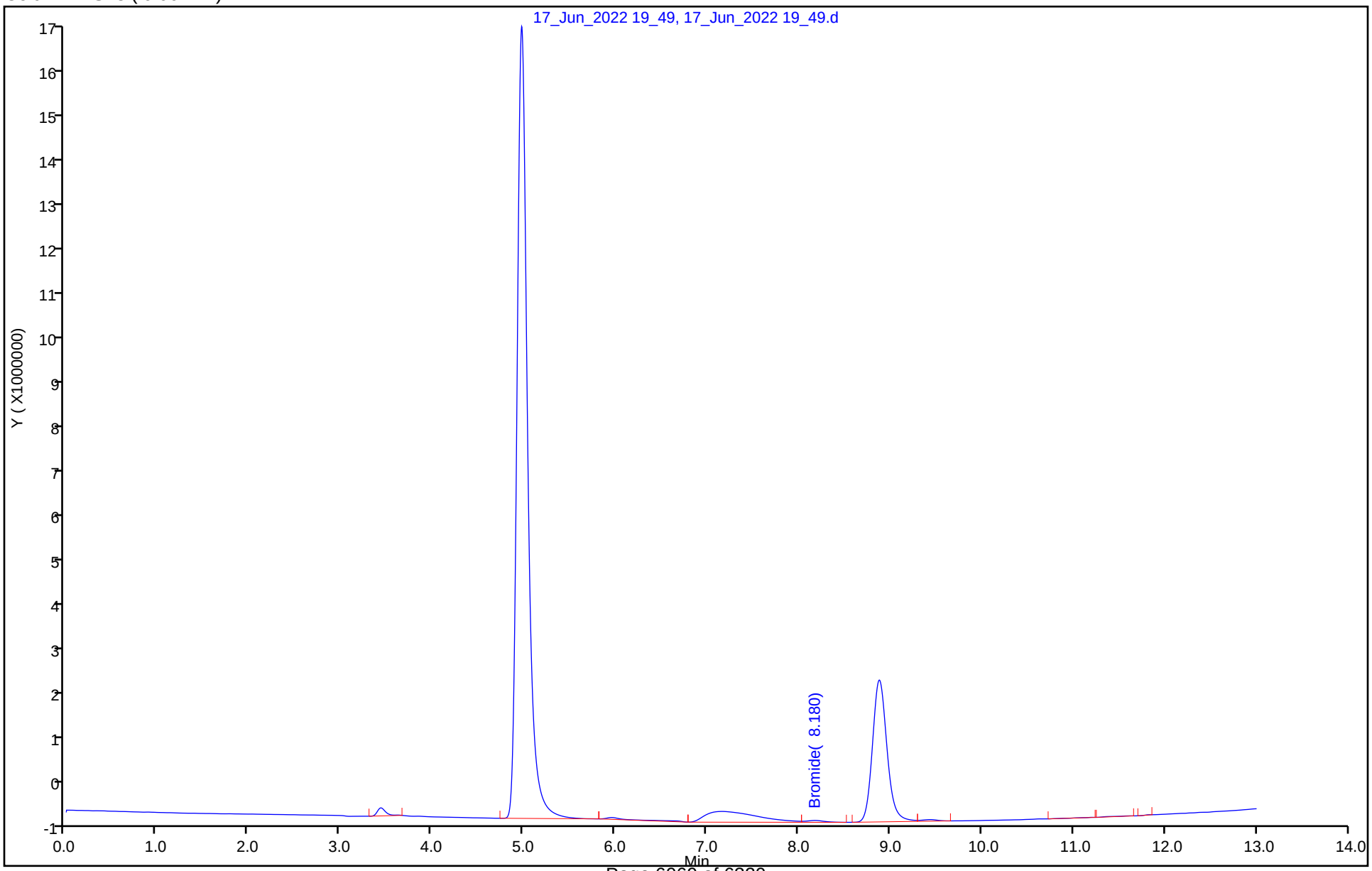
Report Date: 20-Jun-2022 10:29:23 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\17_Jun_2022 19_49.d

Injection Date:	17-Jun-2022 19:49:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	480-198813-L-10	Lab Sample ID:	480-198813-10	Worklist Smp#:	9
Client ID:	MW-7A				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\17_Jun_2022 21_22.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 17-Jun-2022 21:22:00 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0106148-014
Operator ID: Instrument ID: IC-5
Sublist: chrom-IC5-300*sub2

Method: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 20-Jun-2022 10:29:25 Calib Date: 24-Jan-2022 15:43:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_43.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1669

First Level Reviewer: zahniseri Date: 20-Jun-2022 10:24:37

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.460	3.460	0.000	142812645	5.01	5.19	
2 Chloride						
4.977	4.977	0.000	871481608	50.1	49.0	
3 Nitrite as N						
6.003	6.003	0.000	184952039	NC	NC	
4 Bromide						
8.153	8.153	0.000	36440467	5.01	5.11	
5 Sulfate						
8.790	8.790	0.000	639747579	50.0	48.8	
6 Nitrate as N						
9.353	9.353	0.000	223841680	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00421 Amount Added: 5.00 Units: mL

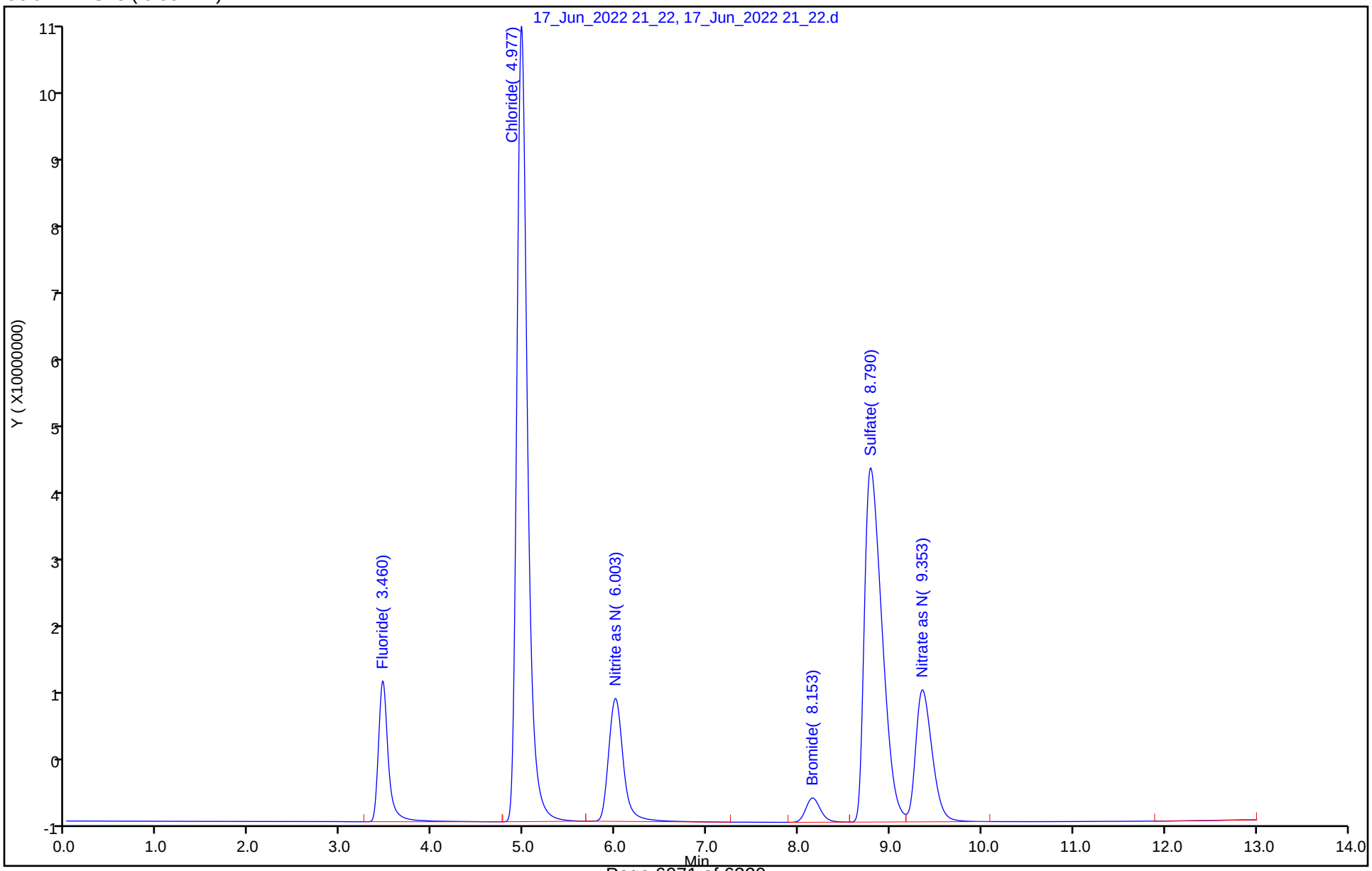
Report Date: 20-Jun-2022 10:29:25 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\17_Jun_2022 21_22.d

Injection Date:	17-Jun-2022 21:22:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	CCV			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\17_Jun_2022 21_41.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 17-Jun-2022 21:41:00 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0106148-015
Operator ID: Instrument ID: IC-5

Method: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 20-Jun-2022 10:29:25 Calib Date: 24-Jan-2022 15:43:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20220124-103592.b\24_Jan_2022 15_43.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1669

First Level Reviewer: zahniseri Date: 20-Jun-2022 10:24:40

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						
4.980	4.977	0.003	415012		0.0416	
3 Nitrite as N						
5.990	6.003	-0.013	436304		NC	
5 Sulfate						
8.933	8.790	0.143	95011		-0.0279	
6 Nitrate as N						
9.443	9.353	0.090	95981		NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

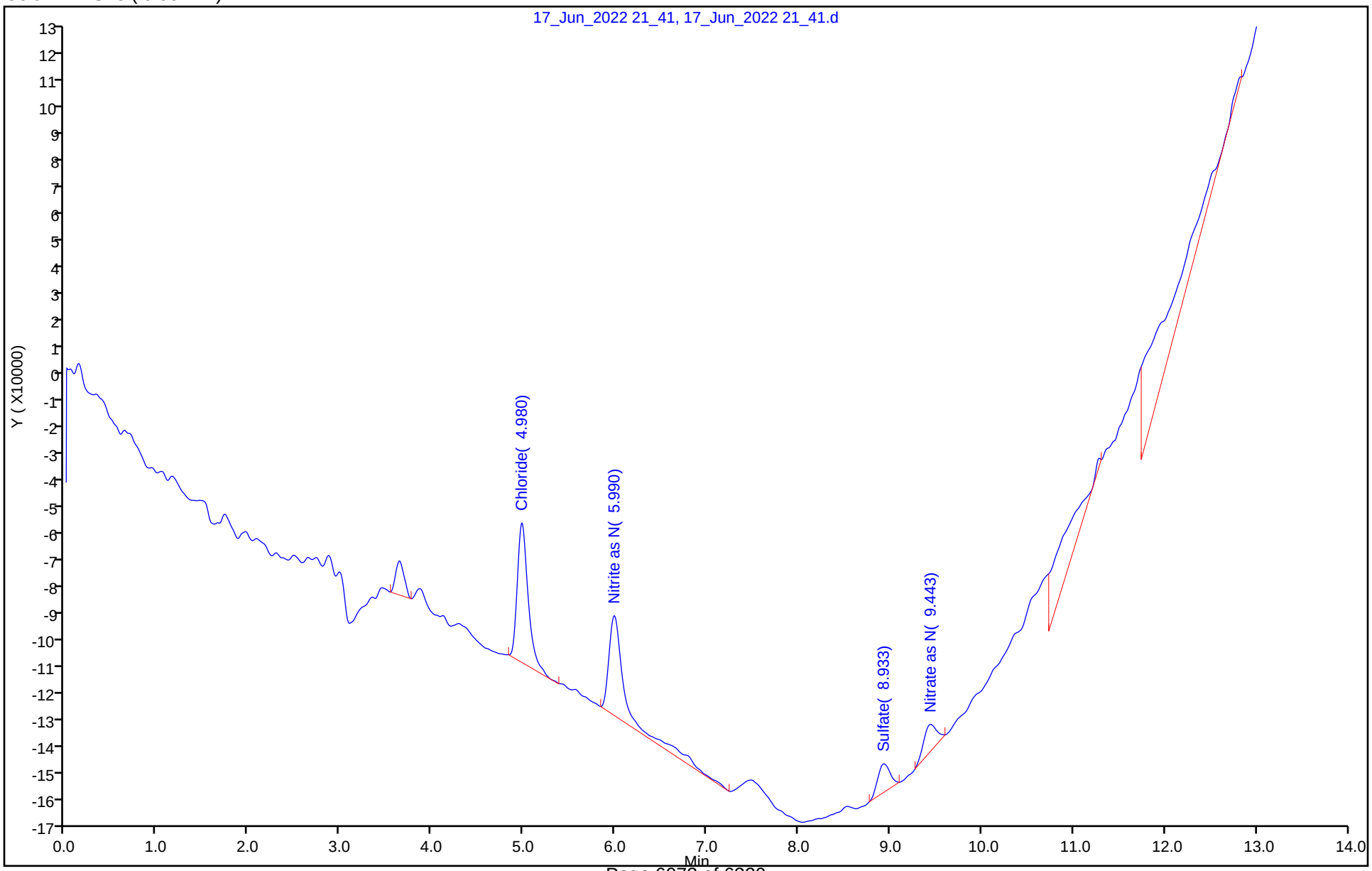
Report Date: 20-Jun-2022 10:29:26 Chrom Revision: 2.3 18-May-2022 20:00:04

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20220617-106148.b\17_Jun_2022 21_41.d

Injection Date:	17-Jun-2022 21:41:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	CCB			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Nitrate, Nitrite, Nitrate/Nitrite (Method 353.2)

Solutions

Nitrate, NO3/NO2 1000mg/L STD: (CAL)		**6513660**	**Exp. 01/20/2023**
Nitrate 1000mg/L STD	**(CCV/LCS/ICV)**	**6508626**	**Exp. 10/22/2022**
Nitrite 1000mg/L STD	**(CAL)**	**6513663**	**Exp. 04/07/2023**
Nitrite 1000mg/L STD	**(CCV/LCS/ICV)**	**6513665**	**Exp. 10/21/2022**
Nitrate, Nitrate/Nitrite Int STD (MS)		**7024130**	**Exp. 06/14/2022**
Nitrite Int STD(MS)		**7024131**	**Exp. 06/14/2022**
Nitrate 1.5ppm CCV/ICV/LCS		**7024132**	**Exp. 06/08/2022**
Nitrite 1.5ppm CCV/ICV/LCS		**7024133**	**Exp. 06/08/2022**
Ammonium Chloride Buffer		**7024004**	**Exp. 07/01/2022**
Color Reagent		**7024003**	**Exp. 06/30/2022**
1:4 Ammonium Hydroxide		**6791433**	**Exp. 04/22/2022**

Quality Control Limits

LCS/CCV = 1.5mg/L
Control Limits = 90-110%
(1.35 mg/L –1.65 mg/L)

MB/CCB = 0.0mg/L
Control Limits <0.05mg/ >-0.05mg/L
MS/MSD = 1.0mg/L
Control Limits = 90-110%
RPD Control Limits <20%

Nitrate/Nitrite Calibration curve:
3.0ppm – 150ul of 1000ppm Nitrate/Nitrite up to 50ml with Di water
2.0ppm – 100ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
1.0 ppm – 50ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
.5ppm –5ml of 1.0ppm up to 10ml with DI water
.2 ppm – 5ml of 2.0ppm up to 50ml with DI water
.05 ppm – 5ml of .2ppm up 20ml With DI water
ICV- 150ul of second source 1000ppm Nitrate/Nitrite standard up too 100 ml with DI
CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Nitrite Calibration curve:
3.0ppm – 150ul of 1000ppm Nitrite up to 50ml with Di water
2.0ppm – 100ul of 1000ppm Nitrite up to 50ml with DI water
1.0 ppm – 50ul of 1000ppm Nitrite up to 50ml with DI water
.5ppm –5ml of 1.0ppm up to 10ml with DI water
.2 ppm – 5ml of 2.0ppm up too 50ml with DI water
.05 ppm – 5ml of .2ppm up 20ml With DI water
ICV- 150ul of second source 1000ppm Nitrite standard up too 100 ml with DI
CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Residual chlorine check of samples CSS

Author: BufLachat3

NO3

Date : 6/7/2022

Original Run Filename: OM_6-7-2022_03-59-33PM.OMN Created: 6/7/2022 3:59:33 PM
Original Run Author's Signature: [BufLachat3]
Current Run Filename: OM_6-7-2022_03-59-33PM.OMN Last Modified: 6/7/2022 4:13:45 PM
Current Run Author's Signature: [BufLachat3]
Description: Default New Run

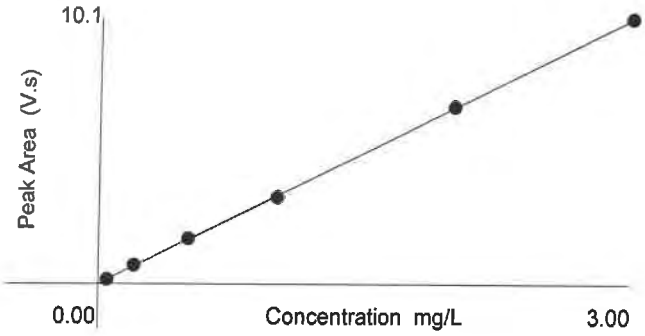
Sample	Rep.	Cup No.	Channel 1 Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
3.0	1	S1	3.00	10.1	0.782	6/7/2022@4:00:43 PM
2.0	1	S2	2.00	6.78	0.521	6/7/2022@4:02:05 PM
1.0	1	S3	1.00	3.31	0.253	6/7/2022@4:03:28 PM
0.5	1	S4	0.500	1.73	0.126	6/7/2022@4:04:51 PM
0.2	1	S5	0.200	0.722	0.0476	6/7/2022@4:06:14 PM
0.05	1	S6	0.0500	0.171	0.0151	6/7/2022@4:07:38 PM
ICV	1	S9	1.55	5.26	0.415	6/7/2022@4:09:00 PM
	Known Conc:		1.50			
	Calibration:		Table/Fig. : 1			
ICB	1	S10	-0.0244	-0.0704	-5.46e-3	6/7/2022@4:10:22 PM
	Known Conc:		0.00			
0.05	1	S6	0.0592	0.212	0.0140	6/7/2022@4:11:46 PM

ICV%

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	10.1	0.782	0.0	-0.1	3.00	6/7/2022	4:00:43 PM
2	2.00	1	6.78	0.521	0.0	-0.2	2.00	6/7/2022	4:02:05 PM
3	1.00	1	3.31	0.253	0.0	2.4	0.976	6/7/2022	4:03:28 PM
4	0.500	1	1.73	0.126	0.0	-1.9	0.510	6/7/2022	4:04:51 PM
5	0.200	1	0.722	0.0476	0.0	-5.0	0.210	6/7/2022	4:06:14 PM
6	0.0500	1	0.171	0.0151	0.0	5.6	0.0471	6/7/2022	4:07:38 PM

Figure : 1 (Nitrate/Nitrite)



Area = 3.38 * Conc + 0.0124
Conc = 0.296 * Area - 3.53e-3
Correlation Coefficient (r) = 0.99994

Weighting : None

NO3

Author: BufLachat3

Date : 6/7/2022

Original Run Filename: OM_6-7-2022_07-20-33PM.OMN Created: 6/7/2022 7:20:33 PM
Original Run Author's Signature: [BufLachat3]
Current Run Filename: OM_6-7-2022_07-20-33PM.OMN Last Modified: 6/7/2022 8:59:56 PM
Current Run Author's Signature: [BufLachat3]
Description: Default New Run

629153

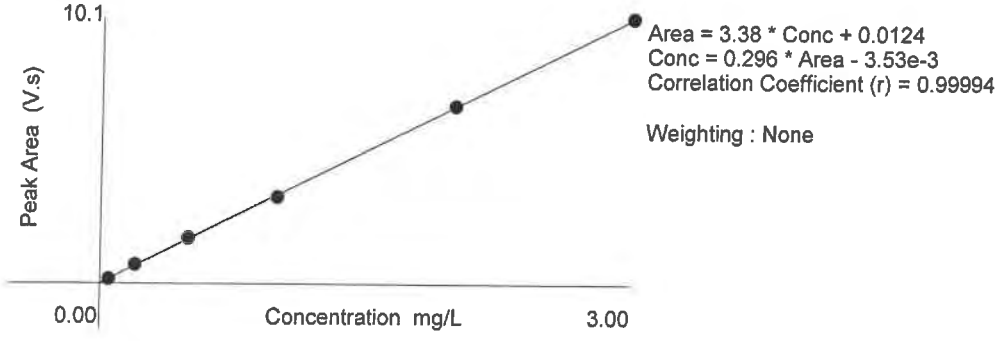
Sample	Rep.	Cup No.	Channel 1 Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
NO2	1	S11	1.59	5.40	0.408	6/7/2022@7:21:34 PM
Calibration:			Table/Fig. : 1			
CCV	1	S9	1.58	5.35	0.416	6/7/2022@7:22:56 PM
Known Conc:			1.50			
CCB	1	S10	0.0123	0.0535	3.81e-3	6/7/2022@7:24:19 PM
Known Conc:			0.00			
MB	1	S10	0.0110	0.0492	4.40e-3	6/7/2022@7:25:41 PM
Known Conc:			0.00			
LCS	1	S9	1.58	5.34	0.413	6/7/2022@7:27:03 PM
Known Conc:			1.50			
480-198719-O-1	1	1	0.412	1.40	0.105	6/7/2022@7:28:26 PM
480-198719-O-1 MS	1	2	1.53	5.17	0.397	6/7/2022@7:29:50 PM
480-198723-I-1	1	3	0.120	0.416	0.0296	6/7/2022@7:31:13 PM
480-198723-I-1 DU	1	4	0.125	0.435	0.0291	6/7/2022@7:32:36 PM
480-198720-J-1	1	5	0.0191	0.0763	6.17e-3	6/7/2022@7:33:59 PM
480-198720-J-2	1	6	0.0132	0.0564	3.72e-3	6/7/2022@7:35:22 PM
480-198720-J-3	1	7	-7.46e-3	-0.0133	-3.08e-3	6/7/2022@7:36:45 PM
480-198720-I-4	1	8	-0.0100	-0.0219	-1.84e-3	6/7/2022@7:38:07 PM
CCV	1	S9	1.53	5.16	0.399	6/7/2022@7:39:29 PM
Known Conc:			1.50			
CCB	1	S10	-3.44e-3	2.86e-4	2.19e-3	6/7/2022@7:40:52 PM
Known Conc:			0.00			
480-198727-H-6	1	9	0.189	0.651	0.0489	6/7/2022@7:42:14 PM
480-198727-H-6 MS	1	10	1.27	4.30	0.331	6/7/2022@7:43:37 PM
480-198727-H-4	1	11	0.0272	0.104	5.34e-3	6/7/2022@7:44:59 PM
480-198727-H-4 DU	1	12	0.0238	0.0923	5.50e-3	6/7/2022@7:46:21 PM
480-198727-H-1	1	13	1.08	3.65	0.280	6/7/2022@7:47:43 PM
480-198727-H-2	1	14	9.25e-3	0.0431	4.99e-3	6/7/2022@7:49:05 PM
480-198727-H-3	1	15	0.0953	0.334	0.0261	6/7/2022@7:50:27 PM
480-198727-H-5	1	16	0.0131	0.0561	3.70e-3	6/7/2022@7:51:50 PM
620-4903-H-1	1	17	1.43	4.84	0.373	6/7/2022@7:53:13 PM
620-4903-H-2	1	18	1.03	3.47	0.264	6/7/2022@7:54:37 PM
CCV	1	S9	1.50	5.09	0.391	6/7/2022@7:55:59 PM
Known Conc:			1.50			
CCB	1	S10	-0.0140	-0.0353	-2.46e-3	6/7/2022@7:57:21 PM
Known Conc:			0.00			
MB	1	S10	-0.0119	-0.0282	-3.28e-3	6/7/2022@7:58:44 PM
Known Conc:			0.00			
LCS	1	S9	1.49	5.06	0.390	6/7/2022@8:00:06 PM
Known Conc:			1.50			
620-4903-H-6	1	19	1.88e-3	0.0183	2.60e-3	6/7/2022@8:01:29 PM
620-4903-H-6 MS	1	20	1.08	3.66	0.279	6/7/2022@8:02:52 PM
620-4892-A-1	1	21	-3.36e-3	5.56e-4	9.67e-4	6/7/2022@8:04:15 PM
620-4892-A-1 DU	1	22	0.0226	0.0883	5.16e-3	6/7/2022@8:05:37 PM
620-4903-H-3	1	23	1.03	3.50	0.266	6/7/2022@8:07:00 PM
620-4903-H-4	1	24	0.867	2.94	0.225	6/7/2022@8:08:23 PM
620-4903-H-5	1	25	0.0132	0.0566	5.25e-3	6/7/2022@8:09:45 PM
620-4903-H-5	1	26	0.0154	0.0641	4.48e-3	6/7/2022@8:11:07 PM
CCV	1	S9	1.48	5.00	0.386	6/7/2022@8:12:29 PM
Known Conc:			1.50			
CCB	1	S10	6.65e-4	0.0141	4.05e-3	6/7/2022@8:13:52 PM
Known Conc:			0.00			
480-197293-B-2	1	27	1.22	4.12	0.318	6/7/2022@8:15:14 PM
480-197293-B-2 MS	1	28	2.25	7.62	0.596	6/7/2022@8:16:36 PM
480-197293-B-2 DU	1	29	1.21	4.11	0.323	6/7/2022@8:17:58 PM
480-198401-B-1	1	30	0.0613	0.219	0.0176	6/7/2022@8:19:20 PM
480-198401-B-2	1	31	0.0836	0.294	0.0233	6/7/2022@8:20:43 PM
480-198401-B-3	1	32	0.106	0.371	0.0294	6/7/2022@8:22:06 PM

480-198401-B-4	1	33	0.0636	0.227	0.0139	6/7/2022@8:23:30 PM
480-198401-B-5^10	1	34	0.0373	0.138	9.47e-3	6/7/2022@8:24:53 PM
480-198401-B-7	1	35	0.332	1.13	0.0855	6/7/2022@8:26:16 PM
480-198401-B-8	1	36	0.0943	0.330	0.0231	6/7/2022@8:27:38 PM
CCV	1	S9	1.36	4.61	0.356	6/7/2022@8:29:00 PM
	Known Conc:		1.50			
CCB	1	S10	0.0309	0.116	8.70e-3	6/7/2022@8:30:23 PM
	Known Conc:		0.00			
MB	1	S10	2.48e-3	0.0203	2.64e-3	6/7/2022@8:31:45 PM
	Known Conc:		0.00			
LCS	1	S9	1.56	5.28	0.404	6/7/2022@8:33:07 PM
	Known Conc:		1.50			
480-198401-B-6	1	37	0.374	1.27	0.0961	6/7/2022@8:34:30 PM
480-198401-B-6 MS	1	38	1.15	3.90	0.295	6/7/2022@8:35:52 PM
480-198401-B-9	1	39	0.0341	0.127	6.21e-3	6/7/2022@8:37:15 PM
480-198401-B-9 DU	1	40	0.0288	0.109	6.13e-3	6/7/2022@8:38:37 PM
480-198401-B-10	1	41	0.0580	0.208	0.0116	6/7/2022@8:40:00 PM
480-198401-B-11	1	42	0.0455	0.166	0.0102	6/7/2022@8:41:22 PM
480-198401-B-12	1	43	0.139	0.481	0.0336	6/7/2022@8:42:44 PM
480-198401-B-13	1	44	0.0542	0.195	0.0124	6/7/2022@8:44:06 PM
CCV	1	S9	1.51	5.11	0.391	6/7/2022@8:45:28 PM
	Known Conc:		1.50			
CCB	1	S10	-4.32e-3	-2.67e-3	2.78e-3	6/7/2022@8:46:50 PM
	Known Conc:		0.00			
480-198401-B-14	1	45	0.0564	0.202	0.0127	6/7/2022@8:48:13 PM
480-198401-B-14 MS	1	46	0.800	2.71	0.199	6/7/2022@8:49:35 PM
480-198401-B-15	1	47	0.0667	0.237	0.0186	6/7/2022@8:50:59 PM
480-198401-B-15 DU	1	48	0.0733	0.260	0.0202	6/7/2022@8:52:22 PM
480-198727-H-6	1	49	0.160	0.553	0.0409	6/7/2022@8:53:45 PM
480-198401-B-5	1	50	0.163	0.561	0.0388	6/7/2022@8:55:08 PM
CCV	1	S9	1.46	4.94	0.377	6/7/2022@8:56:30 PM
	Known Conc:		1.50			
CCB	1	S10	-0.0137	-0.0342	-2.21e-3	6/7/2022@8:57:53 PM
	Known Conc:		0.00			

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	10.1	0.782	0.0	-0.1	3.00	6/7/2022	4:00:43 PM
2	2.00	1	6.78	0.521	0.0	-0.2	2.00	6/7/2022	4:02:05 PM
3	1.00	1	3.31	0.253	0.0	2.4	0.976	6/7/2022	4:03:28 PM
4	0.500	1	1.73	0.126	0.0	-1.9	0.510	6/7/2022	4:04:51 PM
5	0.200	1	0.722	0.0476	0.0	-5.0	0.210	6/7/2022	4:06:14 PM
6	0.0500	1	0.171	0.0151	0.0	5.6	0.0471	6/7/2022	4:07:38 PM

Figure : 1 (Nitrate/Nitrite)



Author: BufLachat3

NO2

Date : 6/7/2022

Original Run Filename: OM_6-7-2022_03-31-35PM.OMN Created: 6/7/2022 3:31:35 PM
Original Run Author's Signature: [BufLachat3]
Current Run Filename: OM_6-7-2022_03-31-35PM.OMN Last Modified: 6/7/2022 3:45:19 PM
Current Run Author's Signature: [BufLachat3]
Description: Default New Run

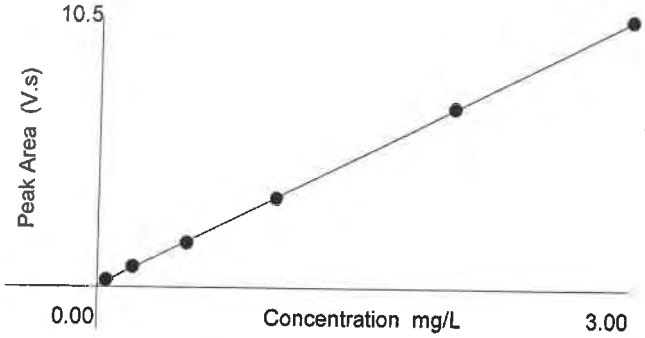
Sample	Rep.	Cup No.	Channel 1 Nitrite Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
3.0	1	S1	3.00	10.5	1.16	6/7/2022@3:32:49 PM
2.0	1	S2	2.00	7.03	0.771	6/7/2022@3:34:12 PM
1.0	1	S3	1.00	3.50	0.384	6/7/2022@3:35:34 PM
0.5	1	S4	0.500	1.73	0.187	6/7/2022@3:36:57 PM
0.2	1	S5	0.200	0.793	0.0760	6/7/2022@3:38:20 PM
0.05	1	S6	0.0500	0.268	0.0233	6/7/2022@3:39:43 PM
ICV	1	S11	1.51	5.32	0.587	6/7/2022@3:41:06 PM
	Known Conc:		1.50			
	Calibration:		Table/Fig. : 1			
ICB	1	S10	-0.0153	4.83e-3	-4.48e-3	6/7/2022@3:42:28 PM
	Known Conc:		0.00			
0.05	1	S6	0.0727	0.311	0.0237	6/7/2022@3:43:52 PM

101%

Table : 1 (Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	10.5	1.16	0.0	-0.1	3.00	6/7/2022	3:32:49 PM
2	2.00	1	7.03	0.771	0.0	-0.2	2.00	6/7/2022	3:34:12 PM
3	1.00	1	3.50	0.384	0.0	1.0	0.989	6/7/2022	3:35:34 PM
4	0.500	1	1.73	0.187	0.0	3.5	0.482	6/7/2022	3:36:57 PM
5	0.200	1	0.793	0.0760	0.0	-5.2	0.211	6/7/2022	3:38:20 PM
6	0.0500	1	0.268	0.0233	0.0	-15.5	0.0605	6/7/2022	3:39:43 PM

Figure : 1 (Nitrite)



Area = 3.48 * Conc + 0.0586
Conc = 0.288 * Area - 0.0167
Correlation Coefficient (r) = 0.99995

Weighting : None

Historical Data Summary Report

For Batch 629155

629155

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198401-B-1	LCS13P	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	1	1.0	0.061	☑	0.1 - 0.1	☑	0.08 - 0.12
480-198401-B-10	LCS34P	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	4	1.0	0.058	☐	0 - 3.288	☑	0.112 - 2.28 OKDP
480-198401-B-11	LCS35P	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	4	1.0	ND	☐	0 - 6.179	☐	0 - 4.8
480-198401-B-12	LCS36P	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	4	1.0	0.14	☐	0 - 1.237	☐	0.047 - 0.936
480-198401-B-13	LCS37P	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	4	1.0	0.054	☐	0 - 1.262	☐	0 - 0.996
480-198401-B-14	LCS38P	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	4	1.0	0.056	☐	0 - 0.189	☐	0 - 0.144
480-198401-B-15	LCS39P	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	4	1.0	0.067	☐	0 - 11.1	☐	0 - 8.76
480-198401-B-2	LCS310P	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	4	1.0	0.084	☐	0 - 0.17	☐	0 - 0.132
480-198401-B-3	LCS311P	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	4	1.0	0.11	☐	0 - 1.076	☐	0 - 0.768
480-198401-B-4	LCS312P	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	2	1.0	0.064	☐	0 - 0.403	☑	0.127 - 0.19
480-198401-B-5	LCS313P	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	1	1.0	0.16	☑	10.1 - 10.1	☑	8.08 - 12.12 OKDP
480-198401-B-6	LCS314P	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	1	1.0	0.37	☑	0.19 - 0.19	☑	0.152 - 0.228
480-198401-B-7	LCS31P	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	4	1.0	0.33	☐	0 - 1.191	☐	0.128 - 0.888
480-198401-B-8	LCS32P	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	4	1.0	0.094	☐	0 - 3.8	☐	0 - 3
480-198401-B-9	LCS33P	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	4	1.0	ND	☐	0 - 0.786	☐	0 - 0.54
480-198719-O-1	MW-OL	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N	2	1.0	0.41	☐	0 - 0.927	☑	0.229 - 0.344 OKDP
480-198720-J-1	CD-1	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.128	☐	0 - 0.091
480-198720-J-2	CD-1RA	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198720-J-3	MW-1B	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198723-I-1	MSW Phase 4 Outfa	353.2	Nitrate Nitrite as N	Total/NA	mg/L	2	1.0	0.12	☐	0.1 - 0.13	☐	0.092 - 0.138
480-198727-H-1	MSW Cell 1A/B/C/D	353.2	Nitrate-Nitrite	Total/NA	mg/L as N	6	1.0	1.1	☐	0 - 4.105	☐	0.76 - 4.08
480-198727-H-2	MSW Phase 2 Outfa	353.2	Nitrate-Nitrite	Total/NA	mg/L as N	6	1.0	ND	☐	0 - 0.345	☐	0 - 0.3
480-198727-H-3	MSW Phase 3 Outfa	353.2	Nitrate-Nitrite	Total/NA	mg/L as N	6	1.0	0.095	☐	0 - 0.375	☐	0.033 - 0.348
480-198727-H-4	MW-PB	353.2	Nitrate-Nitrite	Total/NA	mg/L as N	8	1.0	0.027	☐	0 - 0.052	☐	0 - 0.044
480-198727-H-5	MW-PI	353.2	Nitrate-Nitrite	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0.313	☐	0 - 0.336
480-198727-H-6	PRF Outfall	353.2	Nitrate-Nitrite	Total/NA	mg/L as N	8	1.0	0.19	☐	0 - 0.797	☐	0.026 - 0.708

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Author: BufLachat3

NO2

Date : 6/7/2022

Original Run Filename: OM_6-7-2022_10-21-36PM.OMN Created: 6/7/2022 10:21:36 PM
Original Run Author's Signature: [BufLachat3]
Current Run Filename: OM_6-7-2022_10-21-36PM.OMN Last Modified: 6/7/2022 10:51:48 PM
Current Run Author's Signature: [BufLachat3]
Description: Default New Run

629159

Sample	Rep.	Cup No.	Channel 1 Nitrite Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
CCV	1	S11	1.53	5.39	0.610	6/7/2022@10:22:52 PM
Known Conc:			1.50			
Calibration:			Table/Fig. : 1			
CCB	1	S10	3.16e-4	0.0593	4.11e-3	6/7/2022@10:24:14 PM
Known Conc:			0.00			
MB	1	S10	-0.0167	2.62e-4	6.97e-4	6/7/2022@10:25:37 PM
Known Conc:			0.00			
LCS	1	S11	1.53	5.38	0.608	6/7/2022@10:27:00 PM
Known Conc:			1.50			
480-198719-O-1	1	1	3.69e-3	0.0710	5.94e-3	6/7/2022@10:28:22 PM
480-198719-O-1 MS	1	2	1.02	3.60	0.400	6/7/2022@10:29:46 PM
480-198727-H-6	1	3	1.93e-3	0.0649	4.26e-3	6/7/2022@10:31:08 PM
480-198727-H-6 DU	1	4	-9.12e-4	0.0550	3.87e-3	6/7/2022@10:32:31 PM
480-198723-I-1	1	5	-0.0128	0.0138	2.72e-3	6/7/2022@10:33:54 PM
480-198727-H-1	1	6	-5.69e-3	0.0384	3.24e-3	6/7/2022@10:35:17 PM
480-198727-H-3	1	7	-0.0216	-0.0170	-1.92e-3	6/7/2022@10:36:39 PM
620-4903-H-1	1	8	0.0124	0.101	0.0106	6/7/2022@10:38:01 PM
CCV	1	S11	1.55	5.44	0.612	6/7/2022@10:39:24 PM
Known Conc:			1.50			
CCB	1	S10	-4.42e-3	0.0428	3.25e-3	6/7/2022@10:40:46 PM
Known Conc:			0.00			
620-4903-H-2	1	9	6.95e-3	0.0823	6.58e-3	6/7/2022@10:42:08 PM
620-4903-H-2 MS	1	10	1.04	3.69	0.407	6/7/2022@10:43:30 PM
620-4903-H-4	1	11	0.0138	0.106	8.59e-3	6/7/2022@10:44:52 PM
620-4903-H-4 DU	1	12	0.0101	0.0932	9.68e-3	6/7/2022@10:46:14 PM
620-4903-H-3	1	13	6.12e-3	0.0794	9.85e-3	6/7/2022@10:47:36 PM
CCV	1	S11	1.55	5.46	0.611	6/7/2022@10:48:59 PM
Known Conc:			1.50			
CCB	1	S10	6.21e-3	0.0798	3.87e-3	6/7/2022@10:50:21 PM
Known Conc:			0.00			

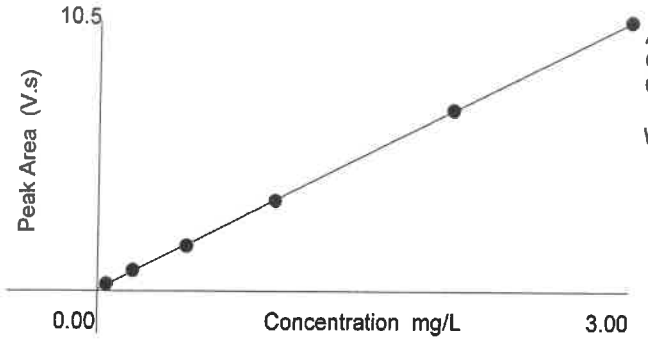
Table : 1 (Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	10.5	1.16	0.0	-0.1	3.00	6/7/2022	3:32:49 PM
2	2.00	1	7.03	0.771	0.0	-0.2	2.00	6/7/2022	3:34:12 PM
3	1.00	1	3.50	0.384	0.0	1.0	0.989	6/7/2022	3:35:34 PM
4	0.500	1	1.73	0.187	0.0	3.5	0.482	6/7/2022	3:36:57 PM
5	0.200	1	0.793	0.0760	0.0	-5.2	0.211	6/7/2022	3:38:20 PM
6	0.0500	1	0.268	0.0233	0.0	-15.5	0.0605	6/7/2022	3:39:43 PM

Author: BufLachat3

Date : 6/7/2022

Figure : 1 (Nitrite)



Area = 3.48 * Conc + 0.0586
Conc = 0.288 * Area - 0.0167
Correlation Coefficient (r) = 0.99995

Weighting : None

Historical Data Summary Report

For Batch 629159

629159

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198719-O-1	MW-OL	353.2_Nitrite	Nitrite	Total/NA	mg/L as N	2	1.0	ND	☐	0 - 0	☐	0 - 0
480-198723-I-1	MSW Phase 4 Outfa	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	2	1.0	ND	☐	0 - 0.088	☑	0.018 - 0.026 OKSP
480-198727-H-1	MSW Cell 1A/B/C/D	353.2_Nitrite	Nitrite	Total/NA	mg/L as N	6	1.0	ND	☐	0 - 0.07	☐	0 - 0.055
480-198727-H-3	MSW Phase 3 Outfa	353.2_Nitrite	Nitrite	Total/NA	mg/L as N	6	1.0	ND	☐	0 - 0.036	☐	0 - 0.034
480-198727-H-6	PRF Outfall	353.2_Nitrite	Nitrite	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0.062	☐	0 - 0.04

Nitrate, Nitrite, Nitrate/Nitrite (Method 353.2)

Solutions

Nitrate, NO3/NO2 1000mg/L STD: (CAL)		6513660	Exp. 01/20/2023
Nitrate 1000mg/L STD	(CCV/LCS/ICV)	6508626	Exp. 10/22/2022
Nitrite 1000mg/L STD	(CAL)	6513663	Exp. 04/07/2023
Nitrite 1000mg/L STD	(CCV/LCS/ICV)	6513665	Exp. 10/21/2022
Nitrate, Nitrate/Nitrite Int STD (MS)		7024130	Exp. 06/14/2022
Nitrite Int STD(MS)		7024131	Exp. 06/14/2022
Nitrate 1.5ppm CCV/ICV/LCS		7027859	Exp. 06/10/2022
Nitrite 1.5ppm CCV/ICV/LCS		7027860	Exp. 06/10/2022
Ammonium Chloride Buffer		7024004	Exp. 07/01/2022
Color Reagent		7024003	Exp. 06/30/2022
1:4 Ammonium Hydroxide		6791433	Exp. 04/22/2022

Quality Control Limits

LCS/CCV = 1.5mg/L
Control Limits = 90-110%
(1.35 mg/L –1.65 mg/L)

MB/CCB = 0.0mg/L
Control Limits <0.05mg/ >-0.05mg/L
MS/MSD = 1.0mg/L
Control Limits = 90-110%
RPD Control Limits <20%

Nitrate/Nitrite Calibration curve:
3.0ppm – 150ul of 1000ppm Nitrate/Nitrite up to 50ml with Di water
2.0ppm – 100ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
1.0 ppm – 50ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
.5ppm –5ml of 1.0ppm up to 10ml with DI water
.2 ppm – 5ml of 2.0ppm up to 50ml with DI water
.05 ppm – 5ml of .2ppm up 20ml With DI water
ICV- 150ul of second source 1000ppm Nitrate/Nitrite standard up too 100 ml with DI
CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Nitrite Calibration curve:
3.0ppm – 150ul of 1000ppm Nitrite up to 50ml with Di water
2.0ppm – 100ul of 1000ppm Nitrite up to 50ml with DI water
1.0 ppm – 50ul of 1000ppm Nitrite up to 50ml with DI water
.5ppm –5ml of 1.0ppm up to 10ml with DI water
.2 ppm – 5ml of 2.0ppm up too 50ml with DI water
.05 ppm – 5ml of .2ppm up 20ml With DI water
ICV- 150ul of second source 1000ppm Nitrite standard up too 100 ml with DI
CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Residual chlorine check of samples CSS

Author: BufLachat3

NO3

Date : 6/9/2022

Original Run Filename: OM_6-9-2022_04-55-15PM.OMN Created: 6/9/2022 4:55:15 PM
Original Run Author's Signature: [BufLachat3]
Current Run Filename: OM_6-9-2022_04-55-15PM.OMN Last Modified: 6/9/2022 5:09:28 PM
Current Run Author's Signature: [BufLachat3]
Description: Default New Run

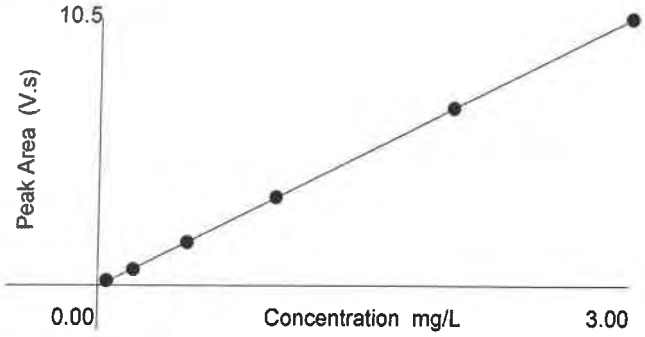
Sample	Rep.	Cup No.	Channel 1 Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
3.0	1	S1	3.00	10.5	1.02	6/9/2022@4:56:25 PM
2.0	1	S2	2.00	7.00	0.678	6/9/2022@4:57:47 PM
1.0	1	S3	1.00	3.49	0.332	6/9/2022@4:59:10 PM
0.5	1	S4	0.500	1.71	0.162	6/9/2022@5:00:33 PM
0.2	1	S5	0.200	0.628	0.0605	6/9/2022@5:01:57 PM
0.05	1	S6	0.0500	0.192	0.0148	6/9/2022@5:03:20 PM
ICV	1	S9	1.61	5.64	0.545	6/9/2022@5:04:43 PM
	Known Conc:		1.50			
	Calibration:		Table/Fig. : 1			
ICB	1	S10	0.0292	0.0712	4.53e-3	6/9/2022@5:06:05 PM
	Known Conc:		0.00			
0.05	1	S6	0.0600	0.180	0.0154	6/9/2022@5:07:29 PM

107%

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	10.5	1.02	0.0	0.0	3.00	6/9/2022	4:56:25 PM
2	2.00	1	7.00	0.678	0.0	-0.1	2.00	6/9/2022	4:57:47 PM
3	1.00	1	3.49	0.332	0.0	-0.3	1.00	6/9/2022	4:59:10 PM
4	0.500	1	1.71	0.162	0.0	1.1	0.495	6/9/2022	5:00:33 PM
5	0.200	1	0.628	0.0605	0.0	6.5	0.188	6/9/2022	5:01:57 PM
6	0.0500	1	0.192	0.0148	0.0	-32.8	0.0636	6/9/2022	5:03:20 PM

Figure : 1 (Nitrate/Nitrite)



Area = 3.51 * Conc - 0.0311
Conc = 0.285 * Area + 8.90e-3
Correlation Coefficient (r) = 0.99997

Weighting : None

NO3

Author: BufLachat3

Date : 6/9/2022

Original Run Filename: OM_6-9-2022_07-56-37PM.OMN Created: 6/9/2022 7:56:37 PM
Original Run Author's Signature: [BufLachat3]
Current Run Filename: OM_6-9-2022_07-56-37PM.OMN Last Modified: 6/9/2022 9:44:10 PM
Current Run Author's Signature: [BufLachat3]
Description: Default New Run

619534

Sample	Rep.	Cup No.	Channel 1 Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
NO2	1	S11	1.55	5.42	0.528	6/9/2022@7:57:38 PM
Calibration:			Table/Fig. : 1			
CCV	1	S9	1.61	5.64	0.546	6/9/2022@7:59:00 PM
Known Conc:			1.50			
CCB	1	S10	0.0228	0.0488	3.31e-3	6/9/2022@8:00:22 PM
Known Conc:			0.00			
MB	1	S10	0.0198	0.0382	3.10e-3	6/9/2022@8:01:45 PM
Known Conc:			0.00			
LCS	1	S9	1.62	5.66	0.542	6/9/2022@8:03:07 PM
Known Conc:			1.50			
480-198813-I-6	1	1	0.0305	0.0758	5.81e-3	6/9/2022@8:04:30 PM
480-198813-I-6 MS	1	2	1.16	4.03	0.384	6/9/2022@8:05:54 PM
480-198813-I-4	1	3	0.0566	0.167	0.0145	6/9/2022@8:07:17 PM
480-198813-I-4 DU	1	4	0.0589	0.176	0.0153	6/9/2022@8:08:40 PM
480-198813-I-1	1	5	0.0365	0.0971	6.96e-3	6/9/2022@8:10:03 PM
480-198813-I-2	1	6	0.250	0.848	0.0788	6/9/2022@8:11:26 PM
480-198813-I-3	1	7	0.0227	0.0485	4.46e-3	6/9/2022@8:12:49 PM
480-198813-I-5	1	8	0.0222	0.0466	2.77e-3	6/9/2022@8:14:11 PM
CCV	1	S9	1.62	5.65	0.542	6/9/2022@8:15:33 PM
Known Conc:			1.50			
CCB	1	S10	0.0179	0.0317	3.33e-3	6/9/2022@8:16:56 PM
Known Conc:			0.00			
480-198813-I-9	1	9	0.0562	0.166	0.0145	6/9/2022@8:18:18 PM
480-198813-I-9 MS	1	10	1.18	4.12	0.393	6/9/2022@8:19:41 PM
480-198813-I-10	1	11	9.43e-3	1.85e-3	3.22e-3	6/9/2022@8:21:03 PM
480-198813-I-10 DU	1	12	0.0248	0.0558	3.61e-3	6/9/2022@8:22:25 PM
480-198813-I-8	1	13	0.0749	0.232	0.0204	6/9/2022@8:23:47 PM
480-198813-I-7	1	14	0.0410	0.113	9.40e-3	6/9/2022@8:25:09 PM
480-198815-I-1	1	15	0.146	0.481	0.0430	6/9/2022@8:26:31 PM
480-198815-I-2	1	16	0.0641	0.194	0.0151	6/9/2022@8:27:54 PM
480-198840-F-1	1	17	0.0469	0.133	0.0126	6/9/2022@8:29:17 PM
480-198840-F-2	1	18	0.0713	0.219	0.0202	6/9/2022@8:30:41 PM
CCV	1	S9	1.60	5.60	0.536	6/9/2022@8:32:03 PM
Known Conc:			1.50			
CCB	1	S10	0.0184	0.0335	2.75e-3	6/9/2022@8:33:25 PM
Known Conc:			0.00			
MB	1	S10	0.0207	0.0413	3.05e-3	6/9/2022@8:34:48 PM
Known Conc:			0.00			
LCS	1	S9	1.59	5.57	0.535	6/9/2022@8:36:10 PM
Known Conc:			1.50			
480-198840-F-4	1	19	0.0272	0.0643	5.43e-3	6/9/2022@8:37:33 PM
480-198840-F-4 MS	1	20	1.15	4.00	0.382	6/9/2022@8:38:56 PM
480-198831-C-2	1	21	0.0383	0.103	9.30e-3	6/9/2022@8:40:19 PM
480-198831-C-2 DU	1	22	0.0389	0.105	7.12e-3	6/9/2022@8:41:42 PM
480-198840-F-3	1	23	0.284	0.967	0.0918	6/9/2022@8:43:04 PM
480-198840-F-5	1	24	0.599	2.07	0.196	6/9/2022@8:44:27 PM
480-198840-F-6	1	25	0.0363	0.0963	6.84e-3	6/9/2022@8:45:49 PM
480-198840-F-7	1	26	0.114	0.368	0.0326	6/9/2022@8:47:12 PM
CCV	1	S9	1.59	5.54	0.530	6/9/2022@8:48:34 PM
Known Conc:			1.50			
CCB	1	S10	0.0171	0.0288	3.17e-3	6/9/2022@8:49:56 PM
Known Conc:			0.00			
480-198841-A-1	1	27	8.11e-3	-2.79e-3	-2.26e-3	6/9/2022@8:51:18 PM
480-198841-A-1 MS	1	28	1.14	3.99	0.378	6/9/2022@8:52:40 PM
480-198840-F-9	1	29	0.0339	0.0877	7.37e-3	6/9/2022@8:54:02 PM
480-198840-F-9 DU	1	30	0.0386	0.104	8.45e-3	6/9/2022@8:55:24 PM
480-198840-F-8	1	31	0.0825	0.259	0.0235	6/9/2022@8:56:47 PM
480-198840-F-10	1	32	0.0444	0.125	0.0110	6/9/2022@8:58:11 PM

620-4969-H-1	1	33	5.86	20.6	1.98	6/9/2022@8:59:34 PM
620-4969-H-2	1	34	0.123	0.402	0.0363	6/9/2022@9:00:57 PM
620-4969-H-3	1	35	0.0575	0.171	0.0133	6/9/2022@9:02:20 PM
620-4969-H-4	1	36	0.133	0.436	0.0390	6/9/2022@9:03:43 PM
CCV	1	S9	1.57	5.47	0.524	6/9/2022@9:05:05 PM
	Known Conc:		1.50			
CCB	1	S10	0.0152	0.0222	2.92e-3	6/9/2022@9:06:27 PM
	Known Conc:		0.00			
MB	1	S10	0.0191	0.0360	2.84e-3	6/9/2022@9:07:50 PM
	Known Conc:		0.00			
LCS	1	S9	1.57	5.48	0.525	6/9/2022@9:09:12 PM
	Known Conc:		1.50			
620-4969-H-6	1	37	0.270	0.918	0.0841	6/9/2022@9:10:35 PM
620-4969-H-6 MS	1	38	1.37	4.79	0.457	6/9/2022@9:11:58 PM
620-4952-B-1	1	39	1.92	6.73	0.641	6/9/2022@9:13:20 PM
620-4952-B-1 DU	1	40	1.91	6.68	0.636	6/9/2022@9:14:42 PM
620-4966-A-1	1	41	1.14	3.98	0.382	6/9/2022@9:16:05 PM
620-4966-A-2	1	42	3.14	11.0	1.06	6/9/2022@9:17:27 PM
620-4966-A-3	1	43	5.01	17.6	1.70	6/9/2022@9:18:49 PM
620-4966-A-4	1	44	4.38	15.3	1.49	6/9/2022@9:20:11 PM
CCV	1	S9	1.56	5.45	0.525	6/9/2022@9:21:33 PM
	Known Conc:		1.50			
CCB	1	S10	0.0180	0.0318	2.54e-3	6/9/2022@9:22:55 PM
	Known Conc:		0.00			
620-4969-H-5	1	45	0.0271	0.0638	5.36e-3	6/9/2022@9:24:17 PM
620-4969-H-5 MS	1	46	1.09	3.80	0.361	6/9/2022@9:25:41 PM
620-4969-S-7	1	47	2.48	8.69	0.832	6/9/2022@9:27:04 PM
620-4969-S-7 DU	1	48	2.48	8.67	0.827	6/9/2022@9:28:27 PM
620-4969-H-8	1	49	0.0374	0.100	7.96e-3	6/9/2022@9:29:50 PM
620-4966-A-5	1	50	0.0356	0.0939	7.03e-3	6/9/2022@9:31:13 PM
620-4966-A-6	1	51	1.59	5.55	0.531	6/9/2022@9:32:36 PM
480-198840-F-7	1	52	0.108	0.348	0.0312	6/9/2022@9:33:58 PM
620-4969-H-1^5	1	53	1.75	6.10	0.577	6/9/2022@9:35:21 PM
620-4966-A-2^2	1	54	1.61	5.62	0.538	6/9/2022@9:36:43 PM
620-4966-A-3^2	1	55	2.54	8.89	0.852	6/9/2022@9:38:06 PM
620-4966-A-4^2	1	56	2.22	7.76	0.748	6/9/2022@9:39:28 PM
CCV	1	S9	1.55	5.43	0.516	6/9/2022@9:40:50 PM
	Known Conc:		1.50			
CCB	1	S10	8.51e-3	-1.37e-3	9.04e-4	6/9/2022@9:42:13 PM
	Known Conc:		0.00			

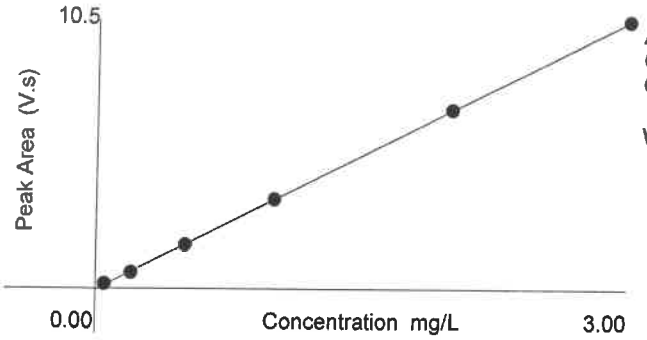
Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	10.5	1.02	0.0	0.0	3.00	6/9/2022	4:56:25 PM
2	2.00	1	7.00	0.678	0.0	-0.1	2.00	6/9/2022	4:57:47 PM
3	1.00	1	3.49	0.332	0.0	-0.3	1.00	6/9/2022	4:59:10 PM
4	0.500	1	1.71	0.162	0.0	1.1	0.495	6/9/2022	5:00:33 PM
5	0.200	1	0.628	0.0605	0.0	6.5	0.188	6/9/2022	5:01:57 PM
6	0.0500	1	0.192	0.0148	0.0	-32.8	0.0636	6/9/2022	5:03:20 PM

Author: BufLachat3

Date : 6/9/2022

Figure : 1 (Nitrate/Nitrite)



Area = 3.51 * Conc - 0.0311
Conc = 0.285 * Area + 8.90e-3
Correlation Coefficient (r) = 0.99997

Weighting : None

Historical Data Summary Report

For Batch 629524

629524

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198813-I-1	MW-1A	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.094	☐	0 - 0.074
480-198813-I-10	MW-7A	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.294	☐	0 - 0.264
480-198813-I-2	MW-2A	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.25	☐	0 - 0.515	☐	0.065 - 0.552
480-198813-I-3	MW-2B	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.258	☐	0 - 0.204
480-198813-I-4	MW-3A	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.057	☐	0 - 0.08	☐	0 - 0.086
480-198813-I-5	MW-3B	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.13	☐	0 - 0.104
480-198813-I-6	MW-4A	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.088	☐	0 - 0.071
480-198813-I-7	MW-5A	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.184	☐	0 - 0.168
480-198813-I-8	MW-6A	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.075	☐	0 - 0.918	☐	0 - 0.732
480-198813-I-9	MW-6B	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.056	☐	0 - 0.182	☐	0 - 0.168
480-198815-I-1	DO-2	353.2	Nitrate Nitrite as N	Total/NA	mg/L	6	1.0	0.15	☐	0 - 0.265	☐	0 - 0.216
480-198815-I-2	RE-7	353.2	Nitrate Nitrite as N	Total/NA	mg/L	6	1.0	0.064	☐	0 - 0.204	☐	0 - 0.156
480-198840-F-1	DUP	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.52	☐	0 - 0.432
480-198840-F-10	MW-14C-U	353.2	Nitrate Nitrite as N	Total/NA	mg/L	3	1.0	ND	☐	0 - 0.276	☑	0.075 - 0.113 oKDP
480-198840-F-2	FIELD BLANK	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.071	☐	0 - 1.79	☐	0 - 1.92
480-198840-F-3	MW-11CU	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.28	☐	0.183 - 0.43	☐	0.192 - 0.42
480-198840-F-4	MW-12CU	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.163	☐	0 - 0.12
480-198840-F-5	MW-19S	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.60	☐	0.369 - 1.189	☐	0.504 - 1.32
480-198840-F-6	MW-1C	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.184	☐	0 - 0.12
480-198840-F-7	MW-21SR	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.11	☐	0 - 0.163	☐	0 - 0.12
480-198840-F-8	MW-2B	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.083	☐	0 - 0.123	☐	0 - 0.132
480-198840-F-9	MW-4A	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.166	☐	0 - 0.168

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NO2

Author: BufLachat3

Date : 6/9/2022

Original Run Filename: OM_6-9-2022_04-15-12PM.OMN Created: 6/9/2022 4:15:12 PM
Original Run Author's Signature: [BufLachat3]
Current Run Filename: OM_6-9-2022_04-15-12PM.OMN Last Modified: 6/9/2022 4:28:52 PM
Current Run Author's Signature: [BufLachat3]
Description: Default New Run

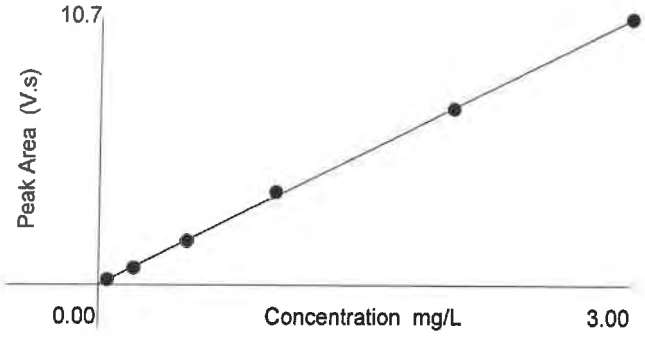
Sample	Rep.	Cup No.	Channel 1 Nitrite Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
3.0	1	S1	3.00	10.7	1.20	6/9/2022@4:16:23 PM
2.0	1	S2	2.00	7.12	0.797	6/9/2022@4:17:45 PM
1.0	1	S3	1.00	3.77	0.400	6/9/2022@4:19:07 PM
0.5	1	S4	0.500	1.78	0.200	6/9/2022@4:20:30 PM
0.2	1	S5	0.200	0.680	0.0722	6/9/2022@4:21:53 PM
0.05	1	S6	0.0500	0.223	0.0193	6/9/2022@4:23:17 PM
ICV	1	S11	1.53	5.51	0.627	6/9/2022@4:24:39 PM
		Known Conc:	1.50			
		Calibration:	Table/Fig. : 1			
ICB	1	S10	-7.79e-4	0.0333	2.26e-3	6/9/2022@4:26:01 PM
		Known Conc:	0.00			
0.05	1	S6	0.0367	0.167	0.0175	6/9/2022@4:27:25 PM

102%

Table : 1 (Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	10.7	1.20	0.0	0.1	3.00	6/9/2022	4:16:23 PM
2	2.00	1	7.12	0.797	0.0	0.7	1.99	6/9/2022	4:17:45 PM
3	1.00	1	3.77	0.400	0.0	-4.7	1.05	6/9/2022	4:19:07 PM
4	0.500	1	1.78	0.200	0.0	2.3	0.488	6/9/2022	4:20:30 PM
5	0.200	1	0.680	0.0722	0.0	9.5	0.180	6/9/2022	4:21:53 PM
6	0.0500	1	0.223	0.0193	0.0	-3.3	0.0525	6/9/2022	4:23:17 PM

Figure : 1 (Nitrite)



Area = 3.57 * Conc + 0.0379
Conc = 0.280 * Area - 0.0101
Correlation Coefficient (r) = 0.99978

Weighting : None

Author: BufLachat3

NO2

Date : 6/9/2022

Original Run Filename: OM_6-9-2022_09-58-55PM.OMN Created: 6/9/2022 9:58:55 PM
Original Run Author's Signature: [BufLachat3]
Current Run Filename: OM_6-9-2022_09-58-55PM.OMN Last Modified: 6/9/2022 11:03:19 PM
Current Run Author's Signature: [BufLachat3]
Description: Default New Run

629527

Sample	Rep.	Cup No.	Channel 1 Nitrite Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
CCV	1	S11	1.53	5.51	0.630	6/9/2022@10:00:06 PM
Known Conc:			1.50			
Calibration:			Table/Fig. : 1			
CCB	1	S10	8.40e-3	0.0660	4.69e-3	6/9/2022@10:01:28 PM
Known Conc:			0.00			
MB	1	S10	0.0166	0.0953	4.31e-3	6/9/2022@10:02:50 PM
Known Conc:			0.00			
LCS	1	S11	1.54	5.55	0.632	6/9/2022@10:04:13 PM
Known Conc:			1.50			
480-198813-I-4	1	1	9.91e-3	0.0715	4.46e-3	6/9/2022@10:05:36 PM
480-198813-I-4 MS	1	2	1.03	3.71	0.415	6/9/2022@10:06:59 PM
480-198813-I-9	1	3	7.04e-3	0.0612	4.44e-3	6/9/2022@10:08:22 PM
480-198813-I-9 DU	1	4	7.05e-3	0.0612	3.80e-3	6/9/2022@10:09:44 PM
480-198813-I-2	1	5	-9.56e-3	1.96e-3	-1.47e-3	6/9/2022@10:11:07 PM
480-198813-I-8	1	6	-0.0128	-9.57e-3	-1.95e-3	6/9/2022@10:12:30 PM
480-198815-I-1	1	7	2.88e-3	0.0463	4.33e-3	6/9/2022@10:13:52 PM
480-198815-I-2	1	8	0.0353	0.162	0.0176	6/9/2022@10:15:15 PM
CCV	1	S11	1.54	5.53	0.630	6/9/2022@10:16:37 PM
Known Conc:			1.50			
CCB	1	S10	-0.0140	-0.0140	-2.62e-3	6/9/2022@10:17:59 PM
Known Conc:			0.00			
480-198840-F-7	1	9	-0.0119	-6.58e-3	-1.79e-3	6/9/2022@10:19:21 PM
480-198840-F-7 MS	1	10	1.02	3.69	0.416	6/9/2022@10:20:44 PM
480-198840-F-8	1	11	-0.0127	-9.38e-3	-2.35e-3	6/9/2022@10:22:05 PM
480-198840-F-8 DU	1	12	-2.95e-3	0.0255	2.64e-3	6/9/2022@10:23:27 PM
480-198840-F-2	1	13	-7.40e-3	9.67e-3	2.50e-3	6/9/2022@10:24:49 PM
480-198840-F-3	1	14	1.24e-3	0.0405	2.37e-3	6/9/2022@10:26:11 PM
480-198840-F-5	1	15	-0.0122	-7.31e-3	-1.06e-3	6/9/2022@10:27:32 PM
620-4969-H-2	1	16	9.96e-3	0.0716	6.80e-3	6/9/2022@10:28:56 PM
620-4969-H-3	1	17	0.0306	0.145	0.0142	6/9/2022@10:30:19 PM
620-4969-H-4	1	18	9.65e-3	0.0705	6.12e-3	6/9/2022@10:31:42 PM
CCV	1	S11	1.54	5.53	0.628	6/9/2022@10:33:04 PM
Known Conc:			1.50			
CCB	1	S10	-9.37e-4	0.0327	2.38e-3	6/9/2022@10:34:26 PM
Known Conc:			0.00			
MB	1	S10	-0.0124	-8.02e-3	-2.06e-3	6/9/2022@10:35:48 PM
Known Conc:			0.00			
LCS	1	S11	1.54	5.52	0.628	6/9/2022@10:37:11 PM
Known Conc:			1.50			
620-4969-H-6	1	19	1.93e-3	0.0430	4.63e-3	6/9/2022@10:38:34 PM
620-4969-H-6 MS	1	20	1.03	3.72	0.419	6/9/2022@10:39:57 PM
620-4969-H-1	1	21	-0.0124	-8.15e-3	-2.42e-3	6/9/2022@10:41:19 PM
620-4969-H-1 DU	1	22	-0.0124	-8.14e-3	-2.39e-3	6/9/2022@10:42:42 PM
620-4969-S-7	1	23	0.0132	0.0831	7.76e-3	6/9/2022@10:44:04 PM
620-4966-A-1	1	24	2.02e-4	0.0368	2.39e-3	6/9/2022@10:45:26 PM
620-4966-A-2	1	25	-9.77e-4	0.0326	2.49e-3	6/9/2022@10:46:48 PM
620-4966-A-3	1	26	-0.0157	-0.0201	-2.83e-3	6/9/2022@10:48:10 PM
CCV	1	S11	1.52	5.47	0.622	6/9/2022@10:49:33 PM
Known Conc:			1.50			
CCB	1	S10	-6.14e-3	0.0141	2.68e-3	6/9/2022@10:50:55 PM
Known Conc:			0.00			
620-4966-A-6	1	27	2.29e-3	0.0443	3.30e-3	6/9/2022@10:52:17 PM
620-4966-A-6 MS	1	28	0.955	3.44	0.382	6/9/2022@10:53:39 PM
620-4966-A-4	1	29	-9.93e-3	6.48e-4	1.46e-3	6/9/2022@10:55:00 PM
620-4966-A-4 DU	1	30	-0.0139	-0.0136	-2.33e-3	6/9/2022@10:56:22 PM
620-4952-B-1	1	31	1.16	4.17	0.467	6/9/2022@10:57:45 PM
620-4952-B-1 DU	1	32	1.16	4.18	0.469	6/9/2022@10:59:08 PM
CCV	1	S11	1.52	5.47	0.622	6/9/2022@11:00:31 PM

Author: BufLachat3

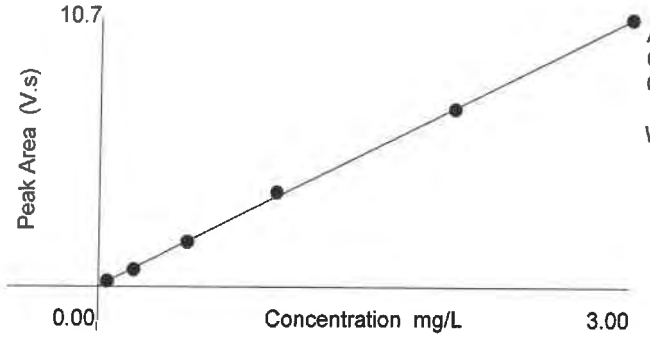
Date : 6/9/2022

		Known Conc:	1.50			
CCB	1	S10	1.39e-3	0.0410	2.88e-3	6/9/2022@11:01:53 PM
		Known Conc:	100			

Table : 1 (Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	10.7	1.20	0.0	0.1	3.00	6/9/2022	4:16:23 PM
2	2.00	1	7.12	0.797	0.0	0.7	1.99	6/9/2022	4:17:45 PM
3	1.00	1	3.77	0.400	0.0	-4.7	1.05	6/9/2022	4:19:07 PM
4	0.500	1	1.78	0.200	0.0	2.3	0.488	6/9/2022	4:20:30 PM
5	0.200	1	0.680	0.0722	0.0	9.5	0.180	6/9/2022	4:21:53 PM
6	0.0500	1	0.223	0.0193	0.0	-3.3	0.0525	6/9/2022	4:23:17 PM

Figure : 1 (Nitrite)



Area = 3.57 * Conc + 0.0379
Conc = 0.280 * Area - 0.0101
Correlation Coefficient (r) = 0.99978

Weighting : None

Historical Data Summary Report

For Batch 629527

629527

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198813-I-2	MW-2A	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.092	☐	0 - 0.098
480-198813-I-4	MW-3A	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198813-I-8	MW-6A	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.12	☐	0 - 0.104
480-198813-I-9	MW-6B	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198815-I-1	DO-2	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	6	1.0	ND	☐	0 - 0	☐	0 - 0
480-198815-I-2	RE-7	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	6	1.0	ND	☐	0 - 0	☐	0 - 0
480-198840-F-2	FIELD BLANK	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198840-F-3	MW-11CU	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198840-F-5	MW-19S	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198840-F-7	MW-21SR	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198840-F-8	MW-2B	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0

629495

Sulfate

SR 4DOCs

9038/D516

1000 PPM (MS/MSD/CAL)	6560004	EXP: 11/30/2022
30 PPM (CCV/LCS)	7010575	EXP: 06/26/2022
Precipitating Solution:	7000124	EXP: 06/09/2022
ICV: made from IC standard	7017076	EXP: 07/01/2022

CURVE:

Kone 1: 11/19/2019 — Batch: 505599
100 ppm: 5657751

Kone 2: 01/24/2022 — Batch: 612611
100 ppm: 6848261

Kone 3: 07/23/2019 — Batch: 483387
100 ppm: 5409342

Gallery 1: 06/10/2022 — Batch: 629495
100 ppm: 7027852

30
26/10

Results by Test

Date 6/9/2022 **User** BufGallery1

Time 3:31:53PM **Software version: 6.0.2**

Test name SO4

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
1	CCB	1.3	0.02	mg/l		0.0	man acc	Outside calibration
2	CCV SO4	1.3	29.57	mg/l		0.0	man acc	
3	IDOC 1	1.3	29.88	mg/l		0.0	man acc	
4	IDOC 2	1.3	29.22	mg/l		0.0	man acc	
5	IDOC 3	1.3	29.47	mg/l		0.0	man acc	
6	IDOC 4	1.3	29.69	mg/l		0.0	man acc	
7	CCB	1.3	-0.18	mg/l		0.0	man acc	Outside calibration
8	CCV SO4	1.3	28.75	mg/l		0.0	man acc	
9	ms 280-162634-D-1	1.3	36.37	mg/l		0.0	man acc	
10	msd 280-162634-D	1.3	35.46	mg/l		0.0	man acc	
11	280-162634-D-1	1.3	-0.19	mg/l		0.0	man acc	Outside calibration
12	620-4610-F-1	1.3	0.13	mg/l		0.0	man acc	Outside calibration
13	CCB	1.3	-0.17	mg/l		0.0	man acc	Outside calibration
14	CCV SO4	1.3	28.85	mg/l		0.0	man acc	
19	CCB	1.3	0.09	mg/l		0.0	man acc	Outside calibration
20	CCV SO4	1.3	29.64	mg/l		0.0	man acc	
21	620-4610-H-6	1.3	-0.53	mg/l		0.0	man acc	Outside calibration
22	620-4610-F-7	1.3	-1.25	mg/l		0.0	man acc	Outside calibration
23	620-4610-H-8	1.3	13.60	mg/l		0.0	man acc	
24	ms 620-4610-H-9	1.3	29.03	mg/l		0.0	man acc	
25	CCB	1.3	-0.05	mg/l		0.0	man acc	Outside calibration
26	CCV SO4	1.3	29.31	mg/l		0.0	man acc	
27	msd 620-4610-H-9	1.3	31.84	mg/l		0.0	man acc	
28	620-4610-H-9	1.3	-0.19	mg/l		0.0	man acc	Outside calibration
29	620-4610-O-10	1.3	-0.09	mg/l		0.0	man acc	Outside calibration
30	480-198580-L-1	1.3	26.42	mg/l		0.0	man acc	
31	CCB	1.3	-0.21	mg/l		0.0	man acc	Outside calibration
32	CCV SO4	1.3	29.29	mg/l		0.0	man acc	
35	CCB	1.3	-0.24	mg/l		0.0	man acc	Outside calibration
36	CCV SO4	1.3	30.08	mg/l		0.0	man acc	
40	620-4610-F-5	1.3	65.87	mg/l		1.0	man acc	
41	CCB	1.3	-0.13	mg/l		0.0	man acc	Outside calibration

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
42	CCV SO4	1.3	28.94	mg/l		0.0	man acc	
44	CCB	1.3	-0.14	mg/l		0.0	man acc	Outside calibration
45	CCV SO4	1.3	29.28	mg/l		0.0	man acc	
46	620-4610-F-2	1.3	153.57	mg/l		4.0	man acc	
47	CCB	1.3	-0.09	mg/l		0.0	man acc	Outside calibration
48	CCV SO4	1.3	28.91	mg/l		0.0	man acc	
49	620-4610-F-3	1.3	156.35	mg/l		4.0	man acc	
50	620-4610-H-4	1.3	196.53	mg/l		4.0	man acc	
51	CCB	1.3	-0.27	mg/l		0.0	man acc	Outside calibration
52	CCV SO4	1.3	29.00	mg/l		0.0	man acc	
54	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
55	CCV SO4	1.3	29.91	mg/l		0.0	man acc	
56	ms 480-198582-I-1	1.3	20.36	mg/l		0.0	man acc	
57	msd 480-198582-I-	1.3	19.70	mg/l		0.0	man acc	
58	480-198582-I-1	1.3	-0.24	mg/l		0.0	man acc	Outside calibration
59	CCB	1.3	-0.16	mg/l		0.0	man acc	Outside calibration
60	CCV SO4	1.3	29.13	mg/l		0.0	man acc	
61	480-198582-I-2	1.3	1,399.83	mg/l		99.0	man acc	
62	480-198582-I-3	1.3	5.59	mg/l		0.0	man acc	
63	480-198582-I-4	1.3	1,106.56	mg/l		99.0	man acc	
64	480-198582-I-5	1.3	909.42	mg/l		79.0	man acc	
65	480-198582-I-6	1.3	1,412.00	mg/l		99.0	man acc	
66	CCB	1.3	0.22	mg/l		0.0	man acc	Outside calibration
67	CCV SO4	1.3	29.01	mg/l		0.0	man acc	
68	480-198582-I-8	1.3	-0.13	mg/l		0.0	man acc	Outside calibration
69	480-198582-H-7	1.3	1,105.57	mg/l		99.0	man acc	
70	480-198582-I-9	1.3	1,254.97	mg/l		99.0	man acc	
72	CCB	1.3	-0.20	mg/l		0.0	man acc	Outside calibration
73	CCV SO4	1.3	29.21	mg/l		0.0	man acc	
76	480-198613-F-1	1.3	16.05	mg/l		0.0	man acc	
77	CCB	1.3	-0.27	mg/l		0.0	man acc	Outside calibration
78	480-198582-I-11	1.3	723.31	mg/l		69.0	man acc	
79	CCV SO4	1.3	29.27	mg/l		0.0	man acc	
82	480-198602-I-2	1.3	78.52	mg/l		4.0	man acc	
83	CCB	1.3	0.73	mg/l		0.0	man acc	Outside calibration
84	CCV SO4	1.3	29.69	mg/l		0.0	man acc	
85	480-198581-I-1	1.3	472.33	mg/l		19.0	man acc	
86	CCB	1.3	-0.30	mg/l		0.0	man acc	Outside calibration
87	CCV SO4	1.3	29.14	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
88	480-198602-I-1	1.3	79.46	mg/l		4.0	man acc	
89	CCB	1.3	-0.36	mg/l		0.0	man acc	Outside calibration
90	CCV SO4	1.3	29.45	mg/l		0.0	man acc	
91	CCB	1.3	-0.36	mg/l		0.0	man acc	Outside calibration
92	CCV SO4	1.3	29.28	mg/l		0.0	man acc	
97	CCB	1.3	0.01	mg/l		0.0	man acc	Outside calibration
98	CCV SO4	1.3	28.75	mg/l		0.0	man acc	
99	480-198581-I-2	1.3	25.63	mg/l		1.0	man acc	
100	CCB	1.3	-0.36	mg/l		0.0	man acc	Outside calibration
101	CCV SO4	1.3	29.44	mg/l		0.0	man acc	
103	480-198602-I-4	1.3	111.00	mg/l		2.0	man acc	
106	CCB	1.3	-0.37	mg/l		0.0	man acc	Outside calibration
107	CCV SO4	1.3	29.14	mg/l		0.0	man acc	
111	480-198602-I-5	1.3	69.03	mg/l		2.0	man acc	
112	CCB	1.3	-0.42	mg/l		0.0	man acc	Outside calibration
113	CCV SO4	1.3	29.29	mg/l		0.0	man acc	
114	480-198651-U-1	1.3	29.39	mg/l		0.0	man acc	
115	480-198602-I-6	1.3	56.87	mg/l		1.0	man acc	
116	480-198630-C-1	1.3	134.42	mg/l		4.0	man acc	
117	480-198651-U-2	1.3	13.09	mg/l		0.0	man acc	
118	CCB	1.3	-0.35	mg/l		0.0	man acc	Outside calibration
119	CCV SO4	1.3	29.30	mg/l		0.0	man acc	
120	CCB	1.3	-0.23	mg/l		0.0	man acc	Outside calibration
121	ms 480-198651-U-2	1.3	44.56	mg/l		2.0	man acc	
122	msd 480-198651-U-	1.3	40.10	mg/l		2.0	man acc	
123	480-198651-U-3	1.3	73.78	mg/l		2.0	man acc	
124	480-198651-U-4	1.3	68.13	mg/l		2.0	man acc	
125	CCV SO4	1.3	29.30	mg/l		0.0	man acc	
126	480-198651-U-5	1.3	22.66	mg/l		1.0	man acc	
127	480-198651-T-6	1.3	17.23	mg/l		0.0	man acc	
128	480-198651-V-7	1.3	29.01	mg/l		1.0	man acc	
129	480-198652-G-1	1.3	10.85	mg/l		0.0	man acc	
130	CCB	1.3	-0.38	mg/l		0.0	man acc	Outside calibration
131	CCV SO4	1.3	29.37	mg/l		0.0	man acc	
132	480-198652-G-2	1.3	48.72	mg/l		2.0	man acc	
133	CCB	1.3	-0.22	mg/l		0.0	man acc	Outside calibration
134	CCV SO4	1.3	29.37	mg/l		0.0	man acc	
137	ms 480-198652-H-3	1.3	76.92	mg/l		2.0	man acc	
138	msd 480-198652-H	1.3	77.17	mg/l		2.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
139	480-198652-H-4	1.3	21.33	mg/l		0.0	man acc	
140	480-198652-H-3	1.3	52.35	mg/l		2.0	man acc	
141	CCB	1.3	-0.33	mg/l		0.0	man acc	Outside calibration
142	CCV SO4	1.3	29.73	mg/l		0.0	man acc	
144	ms 480-198582-I-1(	1.3	-0.34	mg/l		0.0	man acc	Outside calibration
145	620-4703-H-2	1.3	-0.77	mg/l		0.0	man acc	Outside calibration
146	480-198720-L-1	1.3	15.58	mg/l		0.0	man acc	
147	CCB	1.3	-0.23	mg/l		0.0	man acc	Outside calibration
148	CCV SO4	1.3	29.36	mg/l		0.0	man acc	
149	msd 480-198582-I-1	1.3	0.19	mg/l		0.0	man acc	Outside calibration
150	480-198582-I-10	1.3	-0.31	mg/l		0.0	man acc	Outside calibration
151	480-198720-L-2	1.3	17.52	mg/l		0.0	man acc	
152	480-198720-H-3	1.3	12.90	mg/l		0.0	man acc	
153	CCB	1.3	0.18	mg/l		0.0	man acc	Outside calibration
154	CCV SO4	1.3	29.93	mg/l		0.0	man acc	
155	480-198720-J-4	1.3	17.72	mg/l		0.0	man acc	
157	ms 480-198723-L-1	1.3	164.30	mg/l		9.0	man acc	
158	480-198602-I-3	1.3	110.84	mg/l		9.0	man acc	
159	CCV SO4	1.3	29.70	mg/l		0.0	man acc	
160	msd 480-198723-L-	1.3	164.00	mg/l		9.0	man acc	
161	480-198723-L-1	1.3	144.28	mg/l		9.0	man acc	
162	480-198727-H-1	1.3	42.76	mg/l		2.0	man acc	
163	480-198727-H-2	1.3	72.56	mg/l		4.0	man acc	
164	480-198727-H-3	1.3	99.39	mg/l		9.0	man acc	
165	480-198727-H-4	1.3	32.34	mg/l		4.0	man acc	
166	CCB	1.3	-0.22	mg/l		0.0	man acc	Outside calibration
167	CCV SO4	1.3	29.68	mg/l		0.0	man acc	
169	CCB	1.3	-0.31	mg/l		0.0	man acc	Outside calibration
170	CCV SO4	1.3	29.31	mg/l		0.0	man acc	
171	480-198719-N-1	1.3	47.85	mg/l		1.0	man acc	
172	CCB	1.3	0.05	mg/l		0.0	man acc	Outside calibration
173	CCV SO4	1.3	29.42	mg/l		0.0	man acc	
174	620-4703-I-1	1.3	187.01	mg/l		4.0	man acc	
175	CCB	1.3	-0.31	mg/l		0.0	man acc	Outside calibration
176	CCV SO4	1.3	30.09	mg/l		0.0	man acc	
177	CCB	1.3	-0.64	mg/l		0.0	man acc	Outside calibration
178	CCV SO4	1.3	29.54	mg/l		0.0	man acc	
179	ms 480-198602-I-4	1.3	114.83	mg/l		9.0	man acc	
181	msd 480-198602-I-4	1.3	115.62	mg/l		9.0	man acc	

Abr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
182	ms 480-198727-H-5	1.3	49.53	mg/l		1.0	man acc	
183	CCB	1.3	-0.64	mg/l		0.0	man acc	Outside calibration
184	msd 480-198727-H	1.3	50.00	mg/l		1.0	man acc	
185	CCV SO4	1.3	29.41	mg/l		0.0	man acc	
186	480-198727-H-5	1.3	24.86	mg/l		1.0	man acc	
188	480-198813-H-1	1.3	18.29	mg/l		0.0	man acc	
189	480-198813-G-2	1.3	1.54	mg/l		0.0	man acc	Outside calibration
190	CCB	1.3	-0.53	mg/l		0.0	man acc	Outside calibration
191	CCV SO4	1.3	30.22	mg/l		0.0	man acc	
192	480-198813-H-3	1.3	-0.48	mg/l		0.0	man acc	Outside calibration
193	480-198813-G-4	1.3	0.74	mg/l		0.0	man acc	Outside calibration
194	480-198813-G-5	1.3	11.76	mg/l		0.0	man acc	
195	480-198813-G-6	1.3	3.40	mg/l		0.0	man acc	Outside calibration
196	CCB	1.3	-0.48	mg/l		0.0	man acc	Outside calibration
197	CCV SO4	1.3	29.52	mg/l		0.0	man acc	
199	480-198813-H-7	1.3	17.67	mg/l		0.0	man acc	
200	ms 480-198813-H-8	1.3	27.22	mg/l		0.0	man acc	
201	msd 480-198813-H	1.3	25.36	mg/l		0.0	man acc	
202	480-198813-H-8	1.3	-3.98	mg/l		0.0	man acc	Outside calibration
203	CCB	1.3	-0.22	mg/l		0.0	man acc	Outside calibration
204	CCV SO4	1.3	29.12	mg/l		0.0	man acc	
206	480-198813-G-9	1.3	14.97	mg/l		0.0	man acc	
207	480-198813-G-10	1.3	2.54	mg/l		0.0	man acc	Outside calibration
208	620-4903-H-1	1.3	15.97	mg/l		0.0	man acc	
209	CCB	1.3	-0.15	mg/l		0.0	man acc	Outside calibration
210	620-4903-G-2	1.3	17.74	mg/l		0.0	man acc	
211	CCB	1.3	0.16	mg/l		0.0	man acc	Outside calibration
212	CCV SO4	1.3	29.44	mg/l		0.0	man acc	
213	480-198727-H-6	1.3	52.07	mg/l		1.0	man acc	
214	msd 620-4903-G-3	1.3	39.65	mg/l		0.0	man acc	
215	CCB	1.3	-0.09	mg/l		0.0	man acc	Outside calibration
216	CCV SO4	1.3	29.29	mg/l		0.0	man acc	
217	ms 620-4903-G-3	1.3	39.01	mg/l		0.0	man acc	
218	620-4903-G-3	1.3	16.47	mg/l		0.0	man acc	
219	620-4903-I-4	1.3	13.54	mg/l		0.0	man acc	
220	620-4903-H-5	1.3	0.71	mg/l		0.0	man acc	Outside calibration
221	CCB	1.3	-0.11	mg/l		0.0	man acc	Outside calibration
222	CCV SO4	1.3	29.17	mg/l		0.0	man acc	
223	620-4903-G-6	1.3	1.18	mg/l		0.0	man acc	Outside calibration

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
225	620-4938-H-2	1.3	25.11	mg/l		0.0	man acc	
227	CCB	1.3	0.27	mg/l		0.0	man acc	Outside calibration
228	CCV SO4	1.3	29.32	mg/l		0.0	man acc	
231	CCB	1.3	0.04	mg/l		0.0	man acc	Outside calibration
232	CCV SO4	1.3	29.13	mg/l		0.0	man acc	
233	620-4938-H-1	1.3	83.33	mg/l		4.0	man acc	
234	CCB	1.3	-0.22	mg/l		0.0	man acc	Outside calibration
235	CCV SO4	1.3	28.71	mg/l		0.0	man acc	
236	620-4938-H-3	1.3	82.86	mg/l		4.0	man acc	
237	CCB	1.3	-0.29	mg/l		0.0	man acc	Outside calibration
238	CCV SO4	1.3	29.16	mg/l		0.0	man acc	

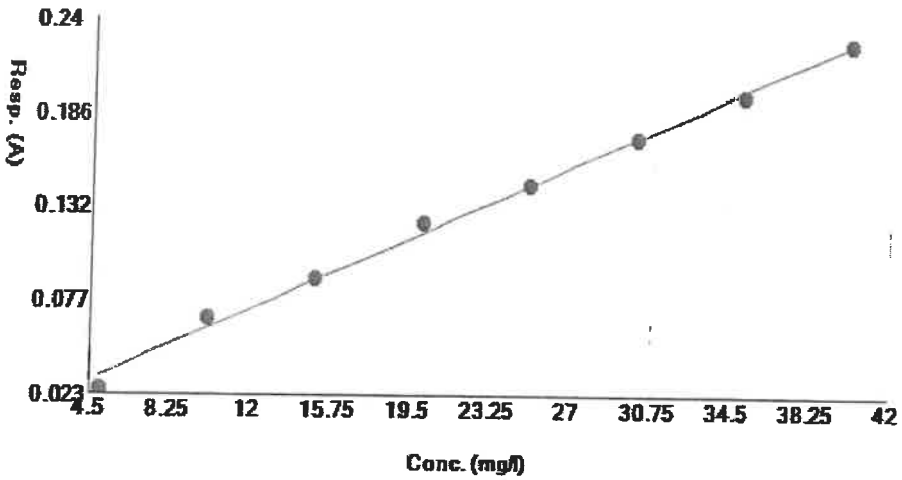
Calibration results

SO4 Version number 1.3

Date	6/9/2022	**User**	BufGallery1
Time	3:33:56PM	**Software version: 6.0.2**	
Analyzer name	Analyzer 1		

Test	SO4	**Coeff. of deter.**	0.995182
Status	Accepted	**Total factor**	182.797
Accepted	6/9/2022 12:06 PM		
Checked	6/9/2022 12:06 PM	Zero-order factor	0.007
User name	BufGallery1	1st order factor	0.005
Comment		2nd order factor	0.000
Errors			

Cal/Ctrl	Response	Calc. conc.	Given conc.	Lot	Errors
SO4 5	0.026	3.438	5.000	Default	
SO4 10	0.067	11.045	10.000	Default	
SO4 15	0.090	15.228	15.000	Default	
SO4 20	0.122	21.084	20.000	Default	
SO4 25	0.143	24.942	25.000	Default	
SO4 30	0.171	29.957	30.000	Default	
SO4 35	0.195	34.451	35.000	Default	
SO4 40	0.225	39.856	40.000	Default	
ICB	0.008	0.30	0.00	Default	Outside calibration
SO4 ICV	0.176	30.98	30.00	Default	



Water blank results

Date 6/9/2022 **User** BufGallery1

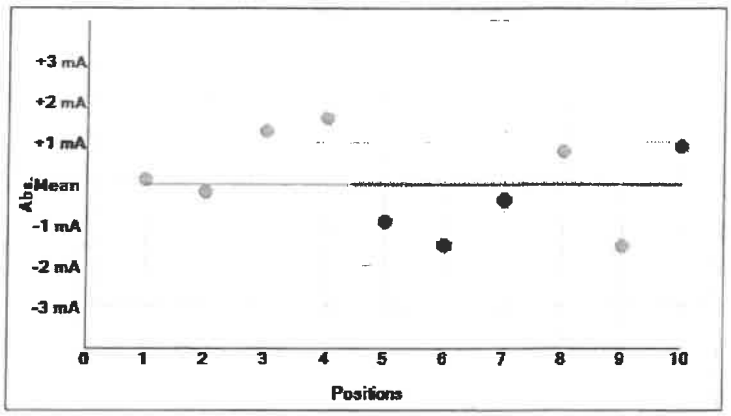
Time 3:34:07PM **Software version: 6.0.2**

Measurement time
6/9/2022 11:17 AM

MAX acceptable SD (mA)
2

Wavelength (nm)	Abs (mA)	SD (mA)
340	**-999.1**	**1.1**
420	-1033.1	0.9
480	-1043.9	0.9
510	-1047.7	1.0
540	-1051.2	1.0
575	-1054.5	1.0
600	-1056.0	1.0
620	-1057.4	1.0
660	-1059.7	1.0
700	-1061.0	1.1
880	-1044.6	1.0

340



Historical Data Summary Report

For Batch 629495

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
280-162634-D-1	MW-2	9038	Sulfate	Total/NA	mg/L	1	1.0	ND	☐	0 - 0	☐	0 - 0
480-198580-L-1	POND01	D516	Sulfate	Total/NA	mg/L	8	1.0	26.4	☐	0 - 165.565	☐	0 - 177.6
480-198581-I-1	MLLA3	D516	Sulfate	Total/NA	mg/L	8	20.0	472	☑	0 - 277.578	☑	12.16 - 212.4
480-198581-I-2	MLLA2/GASCOND	D516	Sulfate	Total/NA	mg/L	2	2.0	25.6	☐	0 - 254	☑	82 - 123
480-198582-H-7	MW17D	D516	Sulfate	Total/NA	mg/L	8	100.0	1110	☐	947.981 - 1369.519	☐	824 - 1500
480-198582-I-1	01FB	D516	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198582-I-10	MW19S	D516	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198582-I-11	MW20R	D516	Sulfate	Total/NA	mg/L	8	70.0	723	☐	0 - 1150.269	☐	181.6 - 938.4
480-198582-I-2	B11D	D516	Sulfate	Total/NA	mg/L	8	100.0	1400	☐	1287.516 - 1687.484	☐	1072 - 1884
480-198582-I-3	B11S	D516	Sulfate	Total/NA	mg/L	8	1.0	5.6	☐	1.929 - 25.721	☑	6.88 - 23.28
480-198582-I-4	B15D	D516	Sulfate	Total/NA	mg/L	8	100.0	1110	☐	962.509 - 1642.491	☐	944 - 1860
480-198582-I-5	B15S	D516	Sulfate	Total/NA	mg/L	8	80.0	909	☐	848.73 - 1142.27	☐	712 - 1260
480-198582-I-6	MW12D	D516	Sulfate	Total/NA	mg/L	8	100.0	1410	☐	1352.904 - 1669.596	☐	1136 - 1896
480-198582-I-8	MW17S	D516	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 85.053	☑	10 - 72.6
480-198582-I-9	MW19D	D516	Sulfate	Total/NA	mg/L	8	100.0	1250	☐	609.175 - 1847.575	☐	565.6 - 1632
480-198602-I-1	DUP 1	D516	Sulfate	Total/NA	mg/L	8	5.0	79.5	☐	0 - 174.29	☐	18.56 - 168
480-198602-I-2	MW-DB	D516	Sulfate	Total/NA	mg/L	8	5.0	78.5	☐	33.733 - 127.217	☐	41.92 - 113.88
480-198602-I-3	MW-DI	D516	Sulfate	Total/NA	mg/L	8	10.0	111	☐	103.675 - 173.325	☐	88.8 - 180
480-198602-I-4	MW-DLA	D516	Sulfate	Total/NA	mg/L	8	3.0	111	☐	0 - 875.65	☐	56.8 - 951.6
480-198602-I-5	MW-IB	D516	Sulfate	Total/NA	mg/L	8	3.0	69.0	☐	55.667 - 92.733	☐	50.8 - 101.04
480-198602-I-6	MW-II	D516	Sulfate	Total/NA	mg/L	8	2.0	56.9	☐	38.966 - 67.584	☐	38.64 - 73.2
480-198613-F-1	MH02	D516	Sulfate	Total/NA	mg/L	2	1.0	16.1	☐	0 - 112.5	☑	29.88 - 44.82
480-198630-C-1	Irrigation Well	D516	Sulfate, Dissolved	Dissolved	mg/L	7	5.0	134	☐	102.624 - 177.662	☐	99.2 - 200.4
480-198651-T-6	MW-LI	D516	Sulfate	Total/NA	mg/L	1	1.0	17.2	☑	1.6 - 1.6	☑	1.28 - 1.92
480-198651-U-1	DUP 1	D516	Sulfate	Total/NA	mg/L	8	1.0	29.4	☐	0 - 174.29	☐	18.56 - 168
480-198651-U-2	MW- JL	D516	Sulfate	Total/NA	mg/L	2	1.0	13.1	☐	3.6 - 29.1	☐	13.08 - 19.62
480-198651-U-3	MW-JI	D516	Sulfate	Total/NA	mg/L	2	3.0	73.8	☐	68.3 - 86.6	☐	61.96 - 92.94
480-198651-U-4	MW-JB	D516	Sulfate	Total/NA	mg/L	4	3.0	68.1	☐	0 - 101.698	☐	1.6 - 79.44
480-198651-U-5	MW-LLA	D516	Sulfate	Total/NA	mg/L	2	2.0	22.7	☑	27.9 - 31.8	☑	23.88 - 35.82
480-198651-V-7	MW-LB	D516	Sulfate	Total/NA	mg/L	2	2.0	29.0	☑	33.3 - 36.3	☐	27.84 - 41.76
480-198652-G-1	MW-ML	D516	Sulfate	Total/NA	mg/L	8	1.0	10.9	☐	0 - 54.407	☐	4.56 - 45.72
480-198652-G-2	MW-NB	D516	Sulfate	Total/NA	mg/L	8	3.0	48.7	☐	29.564 - 76.261	☐	29.28 - 72.96
480-198652-H-3	MW-NI	D516	Sulfate	Total/NA	mg/L	8	3.0	52.3	☐	40.817 - 76.433	☐	36.64 - 77.52
480-198652-H-4	MW-NL	D516	Sulfate	Total/NA	mg/L	8	1.0	21.3	☐	0 - 45.299	☐	2.16 - 38.88
480-198719-N-1	MW-OL	D516	Sulfate	Total/NA	mg/L	2	2.0	47.8	☐	0 - 87.2	☑	17.44 - 26.16
480-198720-H-3	MW-1B	9038	Sulfate	Total/NA	mg/L	8	1.0	12.9	☐	0 - 23.572	☐	4.8 - 25.44
480-198720-L-1	CD-1	9038	Sulfate	Total/NA	mg/L	8	1.0	15.6	☐	13.002 - 23.898	☐	12.64 - 26.52
480-198720-L-2	CD-1RA	9038	Sulfate	Total/NA	mg/L	8	1.0	17.5	☐	0.783 - 30.442	☐	5.68 - 25.68
480-198723-L-1	MSW Phase 4 Outfa	D516	Sulfate	Total/NA	mg/L	2	10.0	144	☐	87 - 246	☐	133.2 - 199.8

Historical Data Summary Report

For Batch 629495

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198727-H-1	MSW Cell 1A/B/C/D	D516	Sulfate	Total/NA	mg/L	7	3.0	42.8	☐	29.129 - 79.243	☐	32.4 - 78.24
480-198727-H-2	MSW Phase 2 Outfa	D516	Sulfate	Total/NA	mg/L	6	5.0	72.6	☐	63.822 - 121.778	☐	60.8 - 127.2
480-198727-H-3	MSW Phase 3 Outfa	D516	Sulfate	Total/NA	mg/L	7	10.0	99.4	☐	77.042 - 145.7	☐	74.08 - 157.2
480-198727-H-4	MW-PB	D516	Sulfate	Total/NA	mg/L	8	5.0	32.3	☑	32.399 - 62.626	☐	31.76 - 67.2
480-198727-H-5	MW-PI	D516	Sulfate	Total/NA	mg/L	8	2.0	24.9	☐	11.539 - 66.761	☐	21.44 - 73.68
480-198727-H-6	PRF Outfall	D516	Sulfate	Total/NA	mg/L	8	2.0	52.1	☐	0 - 135.53	☐	9.12 - 119.64
480-198813-G-10	MW-7A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 41.335	☐	0 - 44.4
480-198813-G-2	MW-2A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198813-G-4	MW-3A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198813-G-5	MW-3B	9038	Sulfate	Total/NA	mg/L	8	1.0	11.8	☐	7.22 - 15.38	☐	6.88 - 15.84
480-198813-G-6	MW-4A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 10.356	☐	0 - 8.76
480-198813-G-9	MW-6B	9038	Sulfate	Total/NA	mg/L	8	1.0	15.0	☐	0 - 42.939	☐	4.16 - 42.6
480-198813-H-1	MW-1A	9038	Sulfate	Total/NA	mg/L	8	1.0	18.3	☐	10.028 - 28.472	☐	9.52 - 27.24
480-198813-H-3	MW-2B	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198813-H-7	MW-5A	9038	Sulfate	Total/NA	mg/L	8	1.0	17.7	☐	6.255 - 25.37	☐	9.36 - 26.28
480-198813-H-8	MW-6A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0

629495

Sulfate

SR 4DOCs

9038/D516

1000 PPM (MS/MSD/CAL)	6560004	EXP: 11/30/2022
30 PPM (CCV/LCS)	7010575	EXP: 06/26/2022
Precipitating Solution:	7000124	EXP: 06/09/2022
ICV: made from IC standard	7017076	EXP: 07/01/2022

CURVE:

Kone 1: 11/19/2019 — Batch: 505599
100 ppm: 5657751

Kone 2: 01/24/2022 — Batch: 612611
100 ppm: 6848261

Kone 3: 07/23/2019 — Batch: 483387
100 ppm: 5409342

Gallery 1: 06/10/2022 — Batch: 629495
100 ppm: 7027852

Results by Test

Date 6/9/2022 **User** BufGallery1

Time 3:31:53PM **Software version: 6.0.2**

Test name SO4

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
1	CCB	1.3	0.02	mg/l		0.0	man acc	Outside calibration
2	CCV SO4	1.3	29.57	mg/l		0.0	man acc	
3	IDOC 1	1.3	29.88	mg/l		0.0	man acc	
4	IDOC 2	1.3	29.22	mg/l		0.0	man acc	
5	IDOC 3	1.3	29.47	mg/l		0.0	man acc	
6	IDOC 4	1.3	29.69	mg/l		0.0	man acc	
7	CCB	1.3	-0.18	mg/l		0.0	man acc	Outside calibration
8	CCV SO4	1.3	28.75	mg/l		0.0	man acc	
9	ms 280-162634-D-1	1.3	36.37	mg/l		0.0	man acc	
10	msd 280-162634-D	1.3	35.46	mg/l		0.0	man acc	
11	280-162634-D-1	1.3	-0.19	mg/l		0.0	man acc	Outside calibration
12	620-4610-F-1	1.3	0.13	mg/l		0.0	man acc	Outside calibration
13	CCB	1.3	-0.17	mg/l		0.0	man acc	Outside calibration
14	CCV SO4	1.3	28.85	mg/l		0.0	man acc	
19	CCB	1.3	0.09	mg/l		0.0	man acc	Outside calibration
20	CCV SO4	1.3	29.64	mg/l		0.0	man acc	
21	620-4610-H-6	1.3	-0.53	mg/l		0.0	man acc	Outside calibration
22	620-4610-F-7	1.3	-1.25	mg/l		0.0	man acc	Outside calibration
23	620-4610-H-8	1.3	13.60	mg/l		0.0	man acc	
24	ms 620-4610-H-9	1.3	29.03	mg/l		0.0	man acc	
25	CCB	1.3	-0.05	mg/l		0.0	man acc	Outside calibration
26	CCV SO4	1.3	29.31	mg/l		0.0	man acc	
27	msd 620-4610-H-9	1.3	31.84	mg/l		0.0	man acc	
28	620-4610-H-9	1.3	-0.19	mg/l		0.0	man acc	Outside calibration
29	620-4610-O-10	1.3	-0.09	mg/l		0.0	man acc	Outside calibration
30	480-198580-L-1	1.3	26.42	mg/l		0.0	man acc	
31	CCB	1.3	-0.21	mg/l		0.0	man acc	Outside calibration
32	CCV SO4	1.3	29.29	mg/l		0.0	man acc	
35	CCB	1.3	-0.24	mg/l		0.0	man acc	Outside calibration
36	CCV SO4	1.3	30.08	mg/l		0.0	man acc	
40	620-4610-F-5	1.3	65.87	mg/l		1.0	man acc	
41	CCB	1.3	-0.13	mg/l		0.0	man acc	Outside calibration

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
42	CCV SO4	1.3	28.94	mg/l		0.0	man acc	
44	CCB	1.3	-0.14	mg/l		0.0	man acc	Outside calibration
45	CCV SO4	1.3	29.28	mg/l		0.0	man acc	
46	620-4610-F-2	1.3	153.57	mg/l		4.0	man acc	
47	CCB	1.3	-0.09	mg/l		0.0	man acc	Outside calibration
48	CCV SO4	1.3	28.91	mg/l		0.0	man acc	
49	620-4610-F-3	1.3	156.35	mg/l		4.0	man acc	
50	620-4610-H-4	1.3	196.53	mg/l		4.0	man acc	
51	CCB	1.3	-0.27	mg/l		0.0	man acc	Outside calibration
52	CCV SO4	1.3	29.00	mg/l		0.0	man acc	
54	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
55	CCV SO4	1.3	29.91	mg/l		0.0	man acc	
56	ms 480-198582-I-1	1.3	20.36	mg/l		0.0	man acc	
57	msd 480-198582-I-	1.3	19.70	mg/l		0.0	man acc	
58	480-198582-I-1	1.3	-0.24	mg/l		0.0	man acc	Outside calibration
59	CCB	1.3	-0.16	mg/l		0.0	man acc	Outside calibration
60	CCV SO4	1.3	29.13	mg/l		0.0	man acc	
61	480-198582-I-2	1.3	1,399.83	mg/l		99.0	man acc	
62	480-198582-I-3	1.3	5.59	mg/l		0.0	man acc	
63	480-198582-I-4	1.3	1,106.56	mg/l		99.0	man acc	
64	480-198582-I-5	1.3	909.42	mg/l		79.0	man acc	
65	480-198582-I-6	1.3	1,412.00	mg/l		99.0	man acc	
66	CCB	1.3	0.22	mg/l		0.0	man acc	Outside calibration
67	CCV SO4	1.3	29.01	mg/l		0.0	man acc	
68	480-198582-I-8	1.3	-0.13	mg/l		0.0	man acc	Outside calibration
69	480-198582-H-7	1.3	1,105.57	mg/l		99.0	man acc	
70	480-198582-I-9	1.3	1,254.97	mg/l		99.0	man acc	
72	CCB	1.3	-0.20	mg/l		0.0	man acc	Outside calibration
73	CCV SO4	1.3	29.21	mg/l		0.0	man acc	
76	480-198613-F-1	1.3	16.05	mg/l		0.0	man acc	
77	CCB	1.3	-0.27	mg/l		0.0	man acc	Outside calibration
78	480-198582-I-11	1.3	723.31	mg/l		69.0	man acc	
79	CCV SO4	1.3	29.27	mg/l		0.0	man acc	
82	480-198602-I-2	1.3	78.52	mg/l		4.0	man acc	
83	CCB	1.3	0.73	mg/l		0.0	man acc	Outside calibration
84	CCV SO4	1.3	29.69	mg/l		0.0	man acc	
85	480-198581-I-1	1.3	472.33	mg/l		19.0	man acc	
86	CCB	1.3	-0.30	mg/l		0.0	man acc	Outside calibration
87	CCV SO4	1.3	29.14	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
88	480-198602-I-1	1.3	79.46	mg/l		4.0	man acc	
89	CCB	1.3	-0.36	mg/l		0.0	man acc	Outside calibration
90	CCV SO4	1.3	29.45	mg/l		0.0	man acc	
91	CCB	1.3	-0.36	mg/l		0.0	man acc	Outside calibration
92	CCV SO4	1.3	29.28	mg/l		0.0	man acc	
97	CCB	1.3	0.01	mg/l		0.0	man acc	Outside calibration
98	CCV SO4	1.3	28.75	mg/l		0.0	man acc	
99	480-198581-I-2	1.3	25.63	mg/l		1.0	man acc	
100	CCB	1.3	-0.36	mg/l		0.0	man acc	Outside calibration
101	CCV SO4	1.3	29.44	mg/l		0.0	man acc	
103	480-198602-I-4	1.3	111.00	mg/l		2.0	man acc	
106	CCB	1.3	-0.37	mg/l		0.0	man acc	Outside calibration
107	CCV SO4	1.3	29.14	mg/l		0.0	man acc	
111	480-198602-I-5	1.3	69.03	mg/l		2.0	man acc	
112	CCB	1.3	-0.42	mg/l		0.0	man acc	Outside calibration
113	CCV SO4	1.3	29.29	mg/l		0.0	man acc	
114	480-198651-U-1	1.3	29.39	mg/l		0.0	man acc	
115	480-198602-I-6	1.3	56.87	mg/l		1.0	man acc	
116	480-198630-C-1	1.3	134.42	mg/l		4.0	man acc	
117	480-198651-U-2	1.3	13.09	mg/l		0.0	man acc	
118	CCB	1.3	-0.35	mg/l		0.0	man acc	Outside calibration
119	CCV SO4	1.3	29.30	mg/l		0.0	man acc	
120	CCB	1.3	-0.23	mg/l		0.0	man acc	Outside calibration
121	ms 480-198651-U-2	1.3	44.56	mg/l		2.0	man acc	
122	msd 480-198651-U	1.3	40.10	mg/l		2.0	man acc	
123	480-198651-U-3	1.3	73.78	mg/l		2.0	man acc	
124	480-198651-U-4	1.3	68.13	mg/l		2.0	man acc	
125	CCV SO4	1.3	29.30	mg/l		0.0	man acc	
126	480-198651-U-5	1.3	22.66	mg/l		1.0	man acc	
127	480-198651-T-6	1.3	17.23	mg/l		0.0	man acc	
128	480-198651-V-7	1.3	29.01	mg/l		1.0	man acc	
129	480-198652-G-1	1.3	10.85	mg/l		0.0	man acc	
130	CCB	1.3	-0.38	mg/l		0.0	man acc	Outside calibration
131	CCV SO4	1.3	29.37	mg/l		0.0	man acc	
132	480-198652-G-2	1.3	48.72	mg/l		2.0	man acc	
133	CCB	1.3	-0.22	mg/l		0.0	man acc	Outside calibration
134	CCV SO4	1.3	29.37	mg/l		0.0	man acc	
137	ms 480-198652-H-3	1.3	76.92	mg/l		2.0	man acc	
138	msd 480-198652-H	1.3	77.17	mg/l		2.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
139	480-198652-H-4	1.3	21.33	mg/l		0.0	man acc	
140	480-198652-H-3	1.3	52.35	mg/l		2.0	man acc	
141	CCB	1.3	-0.33	mg/l		0.0	man acc	Outside calibration
142	CCV SO4	1.3	29.73	mg/l		0.0	man acc	
144	ms 480-198582-I-1(	1.3	-0.34	mg/l		0.0	man acc	Outside calibration
145	620-4703-H-2	1.3	-0.77	mg/l		0.0	man acc	Outside calibration
146	480-198720-L-1	1.3	15.58	mg/l		0.0	man acc	
147	CCB	1.3	-0.23	mg/l		0.0	man acc	Outside calibration
148	CCV SO4	1.3	29.36	mg/l		0.0	man acc	
149	msd 480-198582-I-1	1.3	0.19	mg/l		0.0	man acc	Outside calibration
150	480-198582-I-10	1.3	-0.31	mg/l		0.0	man acc	Outside calibration
151	480-198720-L-2	1.3	17.52	mg/l		0.0	man acc	
152	480-198720-H-3	1.3	12.90	mg/l		0.0	man acc	
153	CCB	1.3	0.18	mg/l		0.0	man acc	Outside calibration
154	CCV SO4	1.3	29.93	mg/l		0.0	man acc	
155	480-198720-J-4	1.3	17.72	mg/l		0.0	man acc	
157	ms 480-198723-L-1	1.3	164.30	mg/l		9.0	man acc	
158	480-198602-I-3	1.3	110.84	mg/l		9.0	man acc	
159	CCV SO4	1.3	29.70	mg/l		0.0	man acc	
160	msd 480-198723-L-	1.3	164.00	mg/l		9.0	man acc	
161	480-198723-L-1	1.3	144.28	mg/l		9.0	man acc	
162	480-198727-H-1	1.3	42.76	mg/l		2.0	man acc	
163	480-198727-H-2	1.3	72.56	mg/l		4.0	man acc	
164	480-198727-H-3	1.3	99.39	mg/l		9.0	man acc	
165	480-198727-H-4	1.3	32.34	mg/l		4.0	man acc	
166	CCB	1.3	-0.22	mg/l		0.0	man acc	Outside calibration
167	CCV SO4	1.3	29.68	mg/l		0.0	man acc	
169	CCB	1.3	-0.31	mg/l		0.0	man acc	Outside calibration
170	CCV SO4	1.3	29.31	mg/l		0.0	man acc	
171	480-198719-N-1	1.3	47.85	mg/l		1.0	man acc	
172	CCB	1.3	0.05	mg/l		0.0	man acc	Outside calibration
173	CCV SO4	1.3	29.42	mg/l		0.0	man acc	
174	620-4703-I-1	1.3	187.01	mg/l		4.0	man acc	
175	CCB	1.3	-0.31	mg/l		0.0	man acc	Outside calibration
176	CCV SO4	1.3	30.09	mg/l		0.0	man acc	
177	CCB	1.3	-0.64	mg/l		0.0	man acc	Outside calibration
178	CCV SO4	1.3	29.54	mg/l		0.0	man acc	
179	ms 480-198602-I-4	1.3	114.83	mg/l		9.0	man acc	
181	msd 480-198602-I-4	1.3	115.62	mg/l		9.0	man acc	

Abr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
182	ms 480-198727-H-5	1.3	49.53	mg/l		1.0	man acc	
183	CCB	1.3	-0.64	mg/l		0.0	man acc	Outside calibration
184	msd 480-198727-H-	1.3	50.00	mg/l		1.0	man acc	
185	CCV SO4	1.3	29.41	mg/l		0.0	man acc	
186	480-198727-H-5	1.3	24.86	mg/l		1.0	man acc	
188	480-198813-H-1	1.3	18.29	mg/l		0.0	man acc	
189	480-198813-G-2	1.3	1.54	mg/l		0.0	man acc	Outside calibration
190	CCB	1.3	-0.53	mg/l		0.0	man acc	Outside calibration
191	CCV SO4	1.3	30.22	mg/l		0.0	man acc	
192	480-198813-H-3	1.3	-0.48	mg/l		0.0	man acc	Outside calibration
193	480-198813-G-4	1.3	0.74	mg/l		0.0	man acc	Outside calibration
194	480-198813-G-5	1.3	11.76	mg/l		0.0	man acc	
195	480-198813-G-6	1.3	3.40	mg/l		0.0	man acc	Outside calibration
196	CCB	1.3	-0.48	mg/l		0.0	man acc	Outside calibration
197	CCV SO4	1.3	29.52	mg/l		0.0	man acc	
199	480-198813-H-7	1.3	17.67	mg/l		0.0	man acc	
200	ms 480-198813-H-8	1.3	27.22	mg/l		0.0	man acc	
201	msd 480-198813-H-	1.3	25.36	mg/l		0.0	man acc	
202	480-198813-H-8	1.3	-3.98	mg/l		0.0	man acc	Outside calibration
203	CCB	1.3	-0.22	mg/l		0.0	man acc	Outside calibration
204	CCV SO4	1.3	29.12	mg/l		0.0	man acc	
206	480-198813-G-9	1.3	14.97	mg/l		0.0	man acc	
207	480-198813-G-10	1.3	2.54	mg/l		0.0	man acc	Outside calibration
208	620-4903-H-1	1.3	15.97	mg/l		0.0	man acc	
209	CCB	1.3	-0.15	mg/l		0.0	man acc	Outside calibration
210	620-4903-G-2	1.3	17.74	mg/l		0.0	man acc	
211	CCB	1.3	0.16	mg/l		0.0	man acc	Outside calibration
212	CCV SO4	1.3	29.44	mg/l		0.0	man acc	
213	480-198727-H-6	1.3	52.07	mg/l		1.0	man acc	
214	msd 620-4903-G-3	1.3	39.65	mg/l		0.0	man acc	
215	CCB	1.3	-0.09	mg/l		0.0	man acc	Outside calibration
216	CCV SO4	1.3	29.29	mg/l		0.0	man acc	
217	ms 620-4903-G-3	1.3	39.01	mg/l		0.0	man acc	
218	620-4903-G-3	1.3	16.47	mg/l		0.0	man acc	
219	620-4903-I-4	1.3	13.54	mg/l		0.0	man acc	
220	620-4903-H-5	1.3	0.71	mg/l		0.0	man acc	Outside calibration
221	CCB	1.3	-0.11	mg/l		0.0	man acc	Outside calibration
222	CCV SO4	1.3	29.17	mg/l		0.0	man acc	
223	620-4903-G-6	1.3	1.18	mg/l		0.0	man acc	Outside calibration

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
225	620-4938-H-2	1.3	25.11	mg/l		0.0	man acc	
227	CCB	1.3	0.27	mg/l		0.0	man acc	Outside calibration
228	CCV SO4	1.3	29.32	mg/l		0.0	man acc	
231	CCB	1.3	0.04	mg/l		0.0	man acc	Outside calibration
232	CCV SO4	1.3	29.13	mg/l		0.0	man acc	
233	620-4938-H-1	1.3	83.33	mg/l		4.0	man acc	
234	CCB	1.3	-0.22	mg/l		0.0	man acc	Outside calibration
235	CCV SO4	1.3	28.71	mg/l		0.0	man acc	
236	620-4938-H-3	1.3	82.86	mg/l		4.0	man acc	
237	CCB	1.3	-0.29	mg/l		0.0	man acc	Outside calibration
238	CCV SO4	1.3	29.16	mg/l		0.0	man acc	

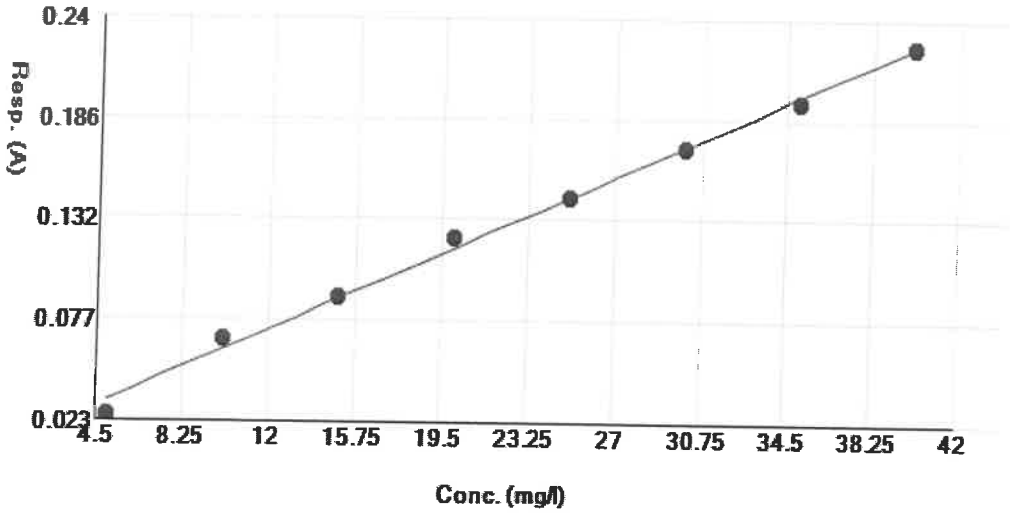
Calibration results

SO4 Version number 1.3

Date	6/9/2022	**User**	BufGallery1
Time	3:33:56PM	**Software version: 6.0.2**	
Analyzer name	Analyzer 1		

Test	SO4	**Coeff. of deter.**	0.995182
Status	Accepted	**Total factor**	182.797
Accepted	6/9/2022 12:06 PM		
Checked	6/9/2022 12:06 PM	Zero-order factor	0.007
User name	BufGallery1	1st order factor	0.005
Comment		2nd order factor	0.000
Errors			

Cal/Ctrl	Response	Calc. conc.	Given conc.	Lot	Errors
SO4 5	0.026	3.438	5.000	Default	
SO4 10	0.067	11.045	10.000	Default	
SO4 15	0.090	15.228	15.000	Default	
SO4 20	0.122	21.084	20.000	Default	
SO4 25	0.143	24.942	25.000	Default	
SO4 30	0.171	29.957	30.000	Default	
SO4 35	0.195	34.451	35.000	Default	
SO4 40	0.225	39.856	40.000	Default	
ICB	0.008	0.30	0.00	Default	Outside calibration
SO4 ICV	0.176	30.98	30.00	Default	



Water blank results

Date 6/9/2022 **User** BufGallery1

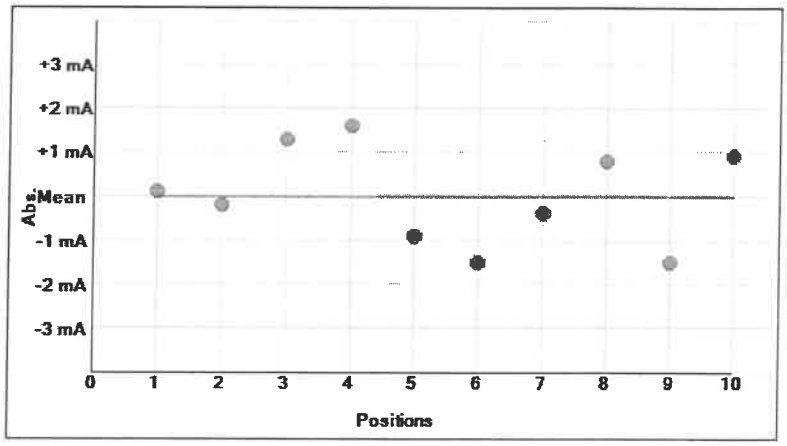
Time 3:34:07PM **Software version: 6.0.2**

Measurement time
6/9/2022 11:17 AM

MAX acceptable SD (mA)
2

Wavelength (nm)	Abs (mA)	SD (mA)
340	**-999.1**	**1.1**
420	-1033.1	0.9
480	-1043.9	0.9
510	-1047.7	1.0
540	-1051.2	1.0
575	-1054.5	1.0
600	-1056.0	1.0
620	-1057.4	1.0
660	-1059.7	1.0
700	-1061.0	1.1
880	-1044.6	1.0

340



Historical Data Summary Report

For Batch 629495

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
280-162634-D-1	MW-2	9038	Sulfate	Total/NA	mg/L	1	1.0	ND	☐	0 - 0	☐	0 - 0
480-198580-L-1	POND01	D516	Sulfate	Total/NA	mg/L	8	1.0	26.4	☐	0 - 165.565	☐	0 - 177.6
480-198581-I-1	MLLA3	D516	Sulfate	Total/NA	mg/L	8	20.0	472	☑	0 - 277.578	☑	12.16 - 212.4
480-198581-I-2	MLLA2/GASCOND	D516	Sulfate	Total/NA	mg/L	2	2.0	25.6	☐	0 - 254	☑	82 - 123
480-198582-H-7	MW17D	D516	Sulfate	Total/NA	mg/L	8	100.0	1110	☐	947.981 - 1369.519	☐	824 - 1500
480-198582-I-1	01FB	D516	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198582-I-10	MW19S	D516	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198582-I-11	MW20R	D516	Sulfate	Total/NA	mg/L	8	70.0	723	☐	0 - 1150.269	☐	181.6 - 938.4
480-198582-I-2	B11D	D516	Sulfate	Total/NA	mg/L	8	100.0	1400	☐	1287.516 - 1687.484	☐	1072 - 1884
480-198582-I-3	B11S	D516	Sulfate	Total/NA	mg/L	8	1.0	5.6	☐	1.929 - 25.721	☑	6.88 - 23.28
480-198582-I-4	B15D	D516	Sulfate	Total/NA	mg/L	8	100.0	1110	☐	962.509 - 1642.491	☐	944 - 1860
480-198582-I-5	B15S	D516	Sulfate	Total/NA	mg/L	8	80.0	909	☐	848.73 - 1142.27	☐	712 - 1260
480-198582-I-6	MW12D	D516	Sulfate	Total/NA	mg/L	8	100.0	1410	☐	1352.904 - 1669.596	☐	1136 - 1896
480-198582-I-8	MW17S	D516	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 85.053	☑	10 - 72.6
480-198582-I-9	MW19D	D516	Sulfate	Total/NA	mg/L	8	100.0	1250	☐	609.175 - 1847.575	☐	565.6 - 1632
480-198602-I-1	DUP 1	D516	Sulfate	Total/NA	mg/L	8	5.0	79.5	☐	0 - 174.29	☐	18.56 - 168
480-198602-I-2	MW-DB	D516	Sulfate	Total/NA	mg/L	8	5.0	78.5	☐	33.733 - 127.217	☐	41.92 - 113.88
480-198602-I-3	MW-DI	D516	Sulfate	Total/NA	mg/L	8	10.0	111	☐	103.675 - 173.325	☐	88.8 - 180
480-198602-I-4	MW-DLA	D516	Sulfate	Total/NA	mg/L	8	3.0	111	☐	0 - 875.65	☐	56.8 - 951.6
480-198602-I-5	MW-IB	D516	Sulfate	Total/NA	mg/L	8	3.0	69.0	☐	55.667 - 92.733	☐	50.8 - 101.04
480-198602-I-6	MW-II	D516	Sulfate	Total/NA	mg/L	8	2.0	56.9	☐	38.966 - 67.584	☐	38.64 - 73.2
480-198613-F-1	MH02	D516	Sulfate	Total/NA	mg/L	2	1.0	16.1	☐	0 - 112.5	☑	29.88 - 44.82
480-198630-C-1	Irrigation Well	D516	Sulfate, Dissolved	Dissolved	mg/L	7	5.0	134	☐	102.624 - 177.662	☐	99.2 - 200.4
480-198651-T-6	MW-LI	D516	Sulfate	Total/NA	mg/L	1	1.0	17.2	☑	1.6 - 1.6	☑	1.28 - 1.92
480-198651-U-1	DUP 1	D516	Sulfate	Total/NA	mg/L	8	1.0	29.4	☐	0 - 174.29	☐	18.56 - 168
480-198651-U-2	MW- JL	D516	Sulfate	Total/NA	mg/L	2	1.0	13.1	☐	3.6 - 29.1	☐	13.08 - 19.62
480-198651-U-3	MW-JI	D516	Sulfate	Total/NA	mg/L	2	3.0	73.8	☐	68.3 - 86.6	☐	61.96 - 92.94
480-198651-U-4	MW-JB	D516	Sulfate	Total/NA	mg/L	4	3.0	68.1	☐	0 - 101.698	☐	1.6 - 79.44
480-198651-U-5	MW-LLA	D516	Sulfate	Total/NA	mg/L	2	2.0	22.7	☑	27.9 - 31.8	☑	23.88 - 35.82
480-198651-V-7	MW-LB	D516	Sulfate	Total/NA	mg/L	2	2.0	29.0	☑	33.3 - 36.3	☐	27.84 - 41.76
480-198652-G-1	MW-ML	D516	Sulfate	Total/NA	mg/L	8	1.0	10.9	☐	0 - 54.407	☐	4.56 - 45.72
480-198652-G-2	MW-NB	D516	Sulfate	Total/NA	mg/L	8	3.0	48.7	☐	29.564 - 76.261	☐	29.28 - 72.96
480-198652-H-3	MW-NI	D516	Sulfate	Total/NA	mg/L	8	3.0	52.3	☐	40.817 - 76.433	☐	36.64 - 77.52
480-198652-H-4	MW-NL	D516	Sulfate	Total/NA	mg/L	8	1.0	21.3	☐	0 - 45.299	☐	2.16 - 38.88
480-198719-N-1	MW-OL	D516	Sulfate	Total/NA	mg/L	2	2.0	47.8	☐	0 - 87.2	☑	17.44 - 26.16
480-198720-H-3	MW-1B	9038	Sulfate	Total/NA	mg/L	8	1.0	12.9	☐	0 - 23.572	☐	4.8 - 25.44
480-198720-L-1	CD-1	9038	Sulfate	Total/NA	mg/L	8	1.0	15.6	☐	13.002 - 23.898	☐	12.64 - 26.52
480-198720-L-2	CD-1RA	9038	Sulfate	Total/NA	mg/L	8	1.0	17.5	☐	0.783 - 30.442	☐	5.68 - 25.68
480-198723-L-1	MSW Phase 4 Outfa	D516	Sulfate	Total/NA	mg/L	2	10.0	144	☐	87 - 246	☐	133.2 - 199.8

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Historical Data Summary Report

For Batch 629495

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198727-H-1	MSW Cell 1A/B/C/D	D516	Sulfate	Total/NA	mg/L	7	3.0	42.8	☐	29.129 - 79.243	☐	32.4 - 78.24
480-198727-H-2	MSW Phase 2 Outfa	D516	Sulfate	Total/NA	mg/L	6	5.0	72.6	☐	63.822 - 121.778	☐	60.8 - 127.2
480-198727-H-3	MSW Phase 3 Outfa	D516	Sulfate	Total/NA	mg/L	7	10.0	99.4	☐	77.042 - 145.7	☐	74.08 - 157.2
480-198727-H-4	MW-PB	D516	Sulfate	Total/NA	mg/L	8	5.0	32.3	☑	32.399 - 62.626	☐	31.76 - 67.2
480-198727-H-5	MW-PI	D516	Sulfate	Total/NA	mg/L	8	2.0	24.9	☐	11.539 - 66.761	☐	21.44 - 73.68
480-198727-H-6	PRF Outfall	D516	Sulfate	Total/NA	mg/L	8	2.0	52.1	☐	0 - 135.53	☐	9.12 - 119.64
480-198813-G-10	MW-7A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 41.335	☐	0 - 44.4
480-198813-G-2	MW-2A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198813-G-4	MW-3A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198813-G-5	MW-3B	9038	Sulfate	Total/NA	mg/L	8	1.0	11.8	☐	7.22 - 15.38	☐	6.88 - 15.84
480-198813-G-6	MW-4A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 10.356	☐	0 - 8.76
480-198813-G-9	MW-6B	9038	Sulfate	Total/NA	mg/L	8	1.0	15.0	☐	0 - 42.939	☐	4.16 - 42.6
480-198813-H-1	MW-1A	9038	Sulfate	Total/NA	mg/L	8	1.0	18.3	☐	10.028 - 28.472	☐	9.52 - 27.24
480-198813-H-3	MW-2B	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198813-H-7	MW-5A	9038	Sulfate	Total/NA	mg/L	8	1.0	17.7	☐	6.255 - 25.37	☐	9.36 - 26.28
480-198813-H-8	MW-6A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0

General Chemistry Worksheet

629374

Batch Number: 480-629374
Method: SM 2540C
Analyst: King, Sayvion A

Date Open: Jun 09 2022 9:41AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	CrucibleID	Tare Weight	Initial weight/volume of sample	Percent different between 1st & 2nd	Percent different between 2nd & 3rd	QC Check for third weight Comparison
MB~480-629374/1		2540C_Calcd		MB	110.7573 g	100 mL	N/A No Unit	N/A No Unit	N/A
LCS~480-629374/2		2540C_Calcd		LCS	102.5829 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198720-B-3	MW-1B	2540C_Calcd	T	3	111.0380 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198720-B-3~DU		2540C_Calcd	T	4	112.9532 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198720-B-4	DUP CD-1RA	2540C_Calcd	T	5	123.3067 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198723-B-1	MSW Phase 4 Outfall	2540C_Calcd	T	6	113.7477 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198727-B-1	MSW Cell 1A/B/C/D Outfall Comp	2540C_Calcd	T	7	115.4386 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198727-B-2	MSW Phase 2 Outfall	2540C_Calcd	T	8	112.4749 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198727-B-3	MSW Phase 3 Outfall	2540C_Calcd	T	9	118.6223 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198727-B-4	MW-PB	2540C_Calcd	T	10	111.6481 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198727-B-5	MW-PI	2540C_Calcd	T	11	109.7671 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198727-B-6	PRF Outfall	2540C_Calcd	T	12	118.9100 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198738-C-1	Cell A #11	2540C_Calcd	T	13	100.7631 g	50 mL	N/A No Unit	N/A No Unit	N/A
480-198747-B-1	EFFLUENT 060622	2540C_Calcd	T	14	107.2831 g	100 mL	N/A No Unit	N/A No Unit	N/A
620-4903-F-1	SW-2	2540C_Calcd	T	15	110.6200 g	100 mL	N/A No Unit	N/A No Unit	N/A
620-4903-F-2	SW-5	2540C_Calcd	T	16	111.4651 g	100 mL	N/A No Unit	N/A No Unit	N/A
620-4903-F-3	SW-6	2540C_Calcd	T	17	105.6932 g	100 mL	N/A No Unit	N/A No Unit	N/A
620-4903-F-5	SW-A	2540C_Calcd	T	18	107.6712 g	100 mL	N/A No Unit	N/A No Unit	N/A
620-4903-F-6	SW-B	2540C_Calcd	T	19	109.9504 g	100 mL	N/A No Unit	N/A No Unit	N/A
620-4938-F-1	MW-11	2540C_Calcd	T	20	108.3297 g	100 mL	N/A No Unit	N/A No Unit	N/A
620-4903-F-4	SW-8	2540C_Calcd	T	21	111.6187 g	100 mL	N/A No Unit	N/A No Unit	N/A
620-4903-F-4~DU		2540C_Calcd	T	22	111.3889 g	100 mL	N/A No Unit	N/A No Unit	N/A

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Historical Data Summary Report

For Batch 629374

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198720-B-3	MW-1B	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	147	☐	44.679 - 259.321	☐	83.2 - 255.6
480-198723-B-1	MSW Phase 4 Outfa	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	2	1.0	783	☑	608 - 713	☐	528.4 - 792.6
480-198727-B-1	MSW Cell 1A/B/C/D	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	6	1.0	386	☐	250.238 - 564.762	☐	254.4 - 573.6
480-198727-B-2	MSW Phase 2 Outfa	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	6	1.0	528	☐	357.244 - 703.089	☐	351.2 - 748.8
480-198727-B-3	MSW Phase 3 Outfa	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	6	1.0	747	☐	344.157 - 764.509	☐	350.4 - 808.8
480-198727-B-4	MW-PB	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	393	☐	284.926 - 498.074	☐	268.8 - 528
480-198727-B-5	MW-PI	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	325	☐	284.815 - 344.435	☐	236.8 - 400.8
480-198727-B-6	PRF Outfall	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	510	☐	209.413 - 629.337	☐	246.4 - 649.2
480-198738-C-1	Cell A #11	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	1900	☐	0 - 2676.727	☐	0 - 2136

General Chemistry Worksheet

629377

Batch Number: 480-629377
Method: SM 2540C
Analyst: King, Sayvion A

Date Open: Jun 09 2022 9:45AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	CrucibleID	Tare Weight	Initial weight/volume of sample	Percent different between 1st & 2nd	Percent different between 2nd & 3rd	QC Check for third weight Comparison
MB~480-629377/1		2540C_Calcd		MB	122.2921 g	100 mL	N/A No Unit	N/A No Unit	N/A
LCS~480-629377/2		2540C_Calcd		LCS	118.5096 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198552-B-10	MW-GB	2540C_Calcd	T	3	109.1672 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198552-B-10~DU		2540C_Calcd	T	4	112.9409 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198596-B-1	FBT58	2540C_Calcd	T	5	103.5579 g	1 mL	N/A No Unit	N/A No Unit	N/A
480-198596-B-2	FBT43	2540C_Calcd	T	6	112.8914 g	1 mL	N/A No Unit	N/A No Unit	N/A
480-198651-H-1	DUP 1	2540C_Calcd	T	7	113.1615 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198651-H-2	MW- JL	2540C_Calcd	T	8	112.2186 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198651-H-3	MW-JI	2540C_Calcd	T	9	113.1569 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198651-H-4	MW-JB	2540C_Calcd	T	10	119.4704 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198651-H-5	MW-LLA	2540C_Calcd	T	11	114.1840 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198651-H-6	MW-LI	2540C_Calcd	T	12	106.4654 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198651-H-7	MW-LB	2540C_Calcd	T	13	113.4182 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198652-B-1	MW-ML	2540C_Calcd	T	14	122.0566 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198652-B-2	MW-NB	2540C_Calcd	T	15	121.4396 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198652-B-3	MW-NI	2540C_Calcd	T	16	111.7511 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198652-B-4	MW-NL	2540C_Calcd	T	17	117.0221 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198653-C-1	KITCHEN SINK	2540C_Calcd	T	18	121.9824 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198719-C-1	MW-OL	2540C_Calcd	T	19	112.6817 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198720-B-1	CD-1	2540C_Calcd	T	20	108.0969 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198720-B-2	CD-1RA	2540C_Calcd	T	21	108.2173 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198720-B-2~DU		2540C_Calcd	T	22	126.7946 g	100 mL	N/A No Unit	N/A No Unit	N/A

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Historical Data Summary Report

For Batch 629377

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198552-B-10	MW-GB	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	420	☑	423.156 - 655.844	☐	392.8 - 723.6
480-198651-H-1	DUP 1	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	458	☐	327.831 - 924.419	☐	392.8 - 972
480-198651-H-2	MW- JL	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	2	1.0	479	☐	343 - 772	☐	446 - 669
480-198651-H-3	MW-JI	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	2	1.0	469	☐	276 - 801	☐	430.8 - 646.2
480-198651-H-4	MW-JB	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	4	1.0	1210	☑	179.88 - 547.12	☑	227.2 - 546
480-198651-H-5	MW-LLA	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	2	1.0	1480	☑	258 - 411	☑	267.6 - 401.4
480-198651-H-6	MW-LI	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	2	1.0	364	☐	68 - 464	☑	212.8 - 319.2
480-198651-H-7	MW-LB	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	2	1.0	236	☑	428 - 536	☑	385.6 - 578.4
480-198652-B-1	MW-ML	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	290	☐	167.722 - 603.528	☐	235.2 - 645.6
480-198652-B-2	MW-NB	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	576	☐	364.439 - 702.561	☐	320.8 - 715.2
480-198652-B-3	MW-NI	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	505	☐	353.578 - 743.922	☐	326.4 - 769.2
480-198652-B-4	MW-NL	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	417	☐	399.115 - 526.385	☐	349.6 - 595.2
480-198719-C-1	MW-OL	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	2	1.0	443	☐	193 - 751	☐	377.6 - 566.4
480-198720-B-1	CD-1	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	173	☐	75.665 - 313.835	☐	120.8 - 344.4
480-198720-B-2	CD-1RA	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	166	☐	123.216 - 316.034	☐	153.6 - 354

General Chemistry Worksheet 629552

Batch Number: 480-629552
Method: SM 2540C
Analyst: King, Sayvion A

Date Open: Jun 10 2022 9:23AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	CrucibleID	Tare Weight	Initial weight/volume of sample	Percent different between 1st & 2nd	Percent different between 2nd & 3rd	QC Check for third weight Comparison
MB~480-629552/1		2540C_Calcd		MB	107.9927 g	100 mL	N/A No Unit	N/A No Unit	N/A
LCS~480-629552/2		2540C_Calcd		LCS	108.8738 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198741-A-1	04A	2540C_Calcd	T	3	115.4733 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198741-A-1~DU		2540C_Calcd	T	4	113.7535 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198436-C-3	R02U	2540C_Calcd	D	5	115.5879 g	50 mL	N/A No Unit	N/A No Unit	N/A
480-198439-A-7	PZ-28S	2540C_Calcd	T	6	119.4479 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198741-A-2	04B	2540C_Calcd	T	7	116.9953 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198741-A-3	04D	2540C_Calcd	T	8	114.2194 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198778-C-1	CBAS	2540C_Calcd	T	9	118.5485 g	25 mL	N/A No Unit	N/A No Unit	N/A
620-4938-F-2	MW-12	2540C_Calcd	T	10	117.7243 g	100 mL	N/A No Unit	N/A No Unit	N/A
620-4938-F-3	MW-13	2540C_Calcd	T	11	106.3133 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198813-B-1	MW-1A	2540C_Calcd	T	12	108.9293 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198813-B-2	MW-2A	2540C_Calcd	T	13	113.9653 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198813-B-3	MW-2B	2540C_Calcd	T	14	123.7200 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198813-B-4	MW-3A	2540C_Calcd	T	15	112.1940 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198813-B-5	MW-3B	2540C_Calcd	T	16	116.6939 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198813-B-6	MW-4A	2540C_Calcd	T	17	105.7975 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198813-B-8	MW-6A	2540C_Calcd	T	18	107.9286 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198813-B-7	MW-5A	2540C_Calcd	T	19	119.5356 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198813-B-7~DU		2540C_Calcd	T	20	124.6220 g	100 mL	N/A No Unit	N/A No Unit	N/A

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Historical Data Summary Report

For Batch 629552

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198436-C-3	R02U	2540C_Calcd	Total Dissolved Solids Field Filtered	Dissolved	mg/L	8	1.0	1410	☐	809.564 - 1777.936	☐	904 - 1896
480-198439-A-7	PZ-28S	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	283	☐	100.548 - 463.702	☐	137.6 - 451.2
480-198778-C-1	CBAS	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	5	1.0	704	☐	0 - 5956.096	☐	600 - 5436
480-198813-B-1	MW-1A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	227	☐	137.791 - 317.709	☐	130.4 - 313.2
480-198813-B-2	MW-2A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	329	☐	113.066 - 566.184	☐	164.8 - 550.8
480-198813-B-3	MW-2B	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	722	☐	0 - 1149.372	☐	280 - 1045.2
480-198813-B-4	MW-3A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	195	☐	0 - 573.739	☐	99.2 - 627.6
480-198813-B-5	MW-3B	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	219	☐	138.449 - 326.301	☐	140.8 - 346.8
480-198813-B-6	MW-4A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	405	☐	322.344 - 570.656	☐	300 - 615.6
480-198813-B-7	MW-5A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	162	☐	55.698 - 340.302	☐	109.6 - 363.6
480-198813-B-8	MW-6A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	426	☐	185.691 - 429.559	☐	207.2 - 430.8

Historical Data Summary Report

For Batch 629750

629750

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198389-C-1	Cell A #8	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	6	1.0	4220	☑	0 - 1377.745	☑	0 - 1080 OK DUP
480-198813-B-10	MW-7A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	423	☐	128.743 - 755.007	☐	236 - 662.4
480-198813-B-9	MW-6B	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	285	☐	76.631 - 412.869	☐	136 - 400.8
480-198815-A-2	RE-7	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	6	1.0	358	☐	212.679 - 408.988	☐	224.8 - 451.2
480-198840-A-1	DUP	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	723	☐	0 - 850.727	☐	68 - 806.4
480-198840-A-10	MW-14C-U	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	3	1.0	584	☐	149.153 - 666.847	☑	326.4 - 489.6 OK DP
480-198840-A-2	FIELD BLANK	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198840-A-3	MW-11CU	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	115	☐	33.149 - 157.601	☐	52.8 - 153.6
480-198840-A-4	MW-12CU	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	119	☐	12.849 - 155.151	☐	28.8 - 138
480-198840-A-5	MW-19S	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	415	☐	258.496 - 494.754	☐	275.2 - 566.4
480-198840-A-6	MW-1C	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	500	☐	0 - 784.598	☐	148 - 675.6
480-198840-A-7	MW-21SR	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	81.0	☐	12.849 - 155.151	☐	28.8 - 138
480-198840-A-8	MW-2B	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	67.0	☐	28.445 - 125.305	☐	36.8 - 106.8
480-198840-A-9	MW-4A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	197	☐	55.843 - 229.907	☐	72 - 214.8
480-198843-B-1	DUP	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	677	☐	62.364 - 876.636	☐	164.8 - 717.6

General Chemistry Worksheet

629750

Batch Number: 480-629750
Method: SM 2540C
Analyst: King, Sayvion A

Date Open: Jun 13 2022 9:26AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	CrucibleID	Tare Weight	Initial weight/volume of sample	Percent different between 1st & 2nd	Percent different between 2nd & 3rd	QC Check for third weight Comparison
MB~480-629750/1		2540C_Calcd		MB	108.5867 g	100 mL	N/A No Unit	N/A No Unit	N/A
LCS~480-629750/2		2540C_Calcd		LCS	110.9747 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198389-C-1	Cell A #8	2540C_Calcd	T	3	107.1669 g	[redacted] 25mL	N/A No Unit	N/A No Unit	N/A
480-198389-C-1~DU		2540C_Calcd	T	4	116.0326 g	[redacted] 25mL	N/A No Unit	N/A No Unit	N/A
480-198813-B-9	MW-6B	2540C_Calcd	T	5	103.3817 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198813-B-10	MW-7A	2540C_Calcd	T	6	111.2849 g	100 mL	N/A No Unit	N/A No Unit	N/A
DO~NOT~USE				7			N/A No Unit	N/A No Unit	N/A
480-198815-A-2	RE-7	2540C_Calcd	T	8	113.3037 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198830-C-2	Station 601	2540C_Calcd	T	9	117.1083 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198830-I-3	Outfall 001	2540C_Calcd	T	10	105.1609 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198840-A-1	DUP	2540C_Calcd	T	11	107.9432 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198840-A-2	FIELD BLANK	2540C_Calcd	T	12	122.7662 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198840-A-3	MW-11CU	2540C_Calcd	T	13	106.1918 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198840-A-4	MW-12CU	2540C_Calcd	T	14	124.0431 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198840-A-5	MW-19S	2540C_Calcd	T	15	112.4677 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198840-A-6	MW-1C	2540C_Calcd	T	16	117.4265 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198840-A-7	MW-21SR	2540C_Calcd	T	17	106.6579 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198840-A-8	MW-2B	2540C_Calcd	T	18	110.4255 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198840-A-9	MW-4A	2540C_Calcd	T	19	111.4533 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198840-A-10	MW-14C-U	2540C_Calcd	T	20	106.0646 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198843-B-1	DUP	2540C_Calcd	T	21	109.7996 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-198843-B-1~DU		2540C_Calcd	T	22	111.7243 g	100 mL	N/A No Unit	N/A No Unit	N/A

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629338

Chloride

325.2/SM4500_CL_E/9251

1000 PPM (MS/MSD/CAL)	5222530	EXP: 04/12/2024
25 PPM (CCV/LCS)	7002072	EXP: 06/20/2022
Color reagent:	6580879	EXP: 06/30/2022
ERA Minerals (ICV): Actual = 58.57 MG/L Range = 56.3 – 66.9 MG/L	6318066	EXP: 04/01/2023

CURVE:

Kone 1: 06-13-2019 50ppm: 5352373	Batch: 478009
Kone 2: 01-20-2022 50ppm: 6845168	Batch: 612323
Kone 3: 05-11-2020 50 ppm: 5915012	Batch: 531059
Gallery 1: 05-20-2022 50 ppm: 7002073	Batch: 627053

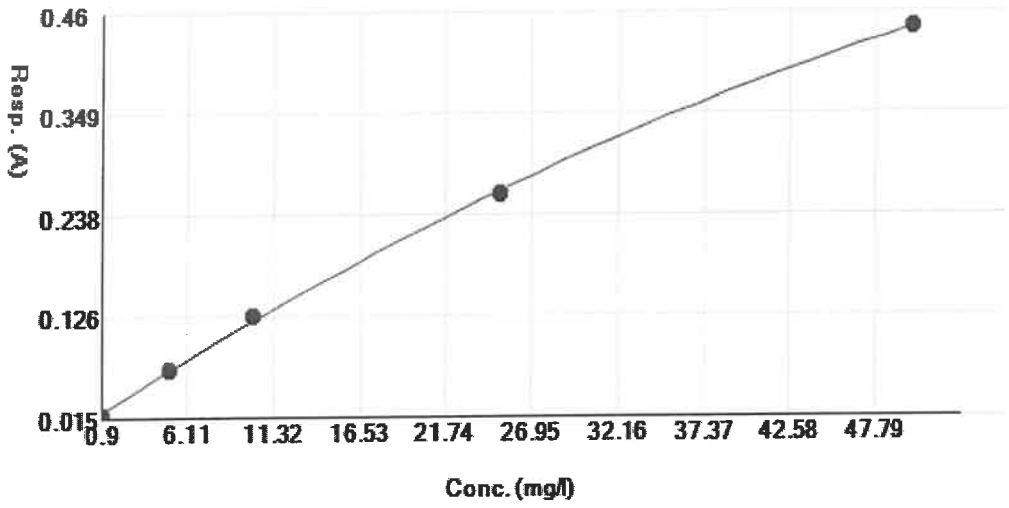
Calibration results

CL Version number 1.13

Date	6/8/2022	**User**	BufGallery1
Time	11:00:37PM	**Software version: 6.0.2**	
Analyzer name	Analyzer 1		

Test	CL	**Coeff. of deter.**	0.999505
Status	Accepted	**Total factor**	116.663
Accepted	5/20/2022 6:37 PM		
Checked	5/20/2022 6:37 PM	Zero-order factor	0.009
User name	BufGallery1	1st order factor	0.012
Comment		2nd order factor	0.000
Errors			

Cal/Ctrl	Response	Calc. conc.	Given conc.	Lot	Errors
CL-50	0.017	0.664	1.000	Default	
CL-50	0.068	5.144	5.000	Default	
CL-50	0.125	10.498	10.000	Default	
CL-50	0.260	24.585	25.000	Default	
CL-50	0.442	50.121	50.000	Default	
CL CCVL	0.019	0.84	1.00	Default	QC, Outside calibration
CL-ICV	0.479	56.76	25.00	Default	Dil. limit High, QC, Outside calibration, Rule violated
ICB	0.003	-0.53	0.00	Default	QC, Outside calibration



Water blank results

Date 6/8/2022 **User** BufGallery1

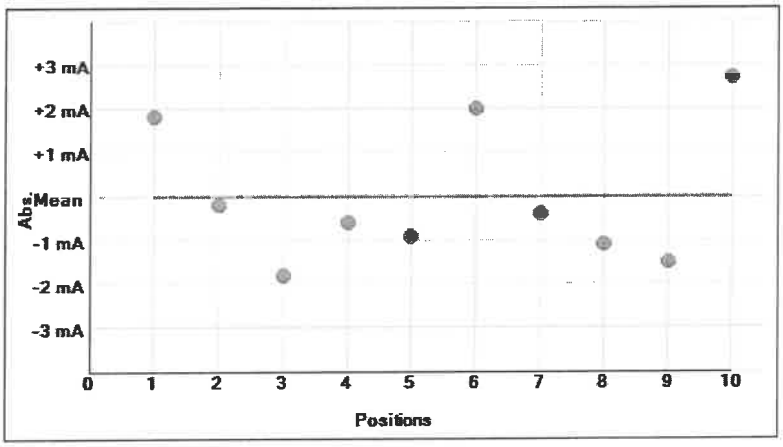
Time 11:01:52PM **Software version: 6.0.2**

Measurement time
6/8/2022 10:15 AM

MAX acceptable SD (mA)
2

Wavelength (nm)	Abs (mA)	SD (mA)
340	**-1000.7**	**1.6**
420	-1034.1	1.4
480	-1044.8	1.4
510	-1048.5	1.4
540	-1052.1	1.4
575	-1055.3	1.4
600	-1056.8	1.4
620	-1058.3	1.3
660	-1060.7	1.4
700	-1061.9	1.4
880	-1045.5	1.4

340



Results by Test

Date 6/9/2022 **User** BufGallery1

Time 12:01:53AM **Software version: 6.0.2**

Test name CL

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
1	CCB	1.13	-0.49	mg/l		0.0	man acc	Outside calibration
2	CCV CL	1.13	25.33	mg/l		0.0	man acc	
3	LCS CL	1.13	25.30	mg/l		0.0	man acc	
4	MB	1.13	-0.26	mg/l		0.0	man acc	Outside calibration
5	era	1.13	58.57	mg/l		1.0	man acc	
6	CCB	1.13	-0.37	mg/l		0.0	man acc	Outside calibration
7	CCV CL	1.13	25.07	mg/l		0.0	man acc	
8	LCS CL	1.13	25.31	mg/l		0.0	man acc	
9	MB	1.13	-0.45	mg/l		0.0	man acc	Outside calibration
10	CCB	1.13	-0.59	mg/l		0.0	man acc	Outside calibration
11	CCV CL	1.13	24.80	mg/l		0.0	man acc	
12	LCS CL	1.13	24.97	mg/l		0.0	man acc	
13	MB	1.13	-0.50	mg/l		0.0	man acc	Outside calibration
14	240-167414-A-8	1.13	5.21	mg/l		0.0	man acc	
15	ms 240-167414-A-8	1.13	27.29	mg/l		0.0	man acc	
16	msd 240-167414-A-	1.13	27.15	mg/l		0.0	man acc	
38	240-167414-A-12	1.13	6.07	mg/l		0.0	man acc	
52	240-167693-A-3	1.13	18.52	mg/l		0.0	man acc	
53	240-167693-A-4	1.13	10.51	mg/l		0.0	man acc	
55	620-4610-F-2	1.13	43.32	mg/l		0.0	man acc	
62	620-4610-F-3	1.13	13.33	mg/l		0.0	man acc	
86	CCB	1.13	-0.26	mg/l		0.0	man acc	Outside calibration
87	CCV CL	1.13	25.20	mg/l		0.0	man acc	
88	LCS CL	1.13	25.29	mg/l		0.0	man acc	
89	MB	1.13	-0.29	mg/l		0.0	man acc	Outside calibration
94	240-167414-A-9	1.13	61.68	mg/l		1.0	man acc	
98	240-167414-A-7	1.13	162.96	mg/l		4.0	man acc	
108	240-167414-A-16	1.13	118.37	mg/l		4.0	man acc	
120	240-167414-A-10	1.13	245.44	mg/l		4.0	man acc	
121	CCB	1.13	-0.30	mg/l		0.0	man acc	Outside calibration
122	CCV CL	1.13	25.82	mg/l		0.0	man acc	
123	LCS CL	1.13	26.34	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
126	MB	1.13	-0.46	mg/l		0.0	man acc	Outside calibration
131	620-4610-F-1	1.13	87.63	mg/l		1.0	man acc	
132	240-167414-A-5	1.13	453.18	mg/l		9.0	man acc	
136	240-167414-A-3	1.13	482.13	mg/l		9.0	man acc	
138	240-167414-A-6	1.13	499.67	mg/l		9.0	man acc	
140	240-167414-A-2	1.13	477.47	mg/l		9.0	man acc	
141	240-167414-A-1	1.13	409.55	mg/l		9.0	man acc	
142	240-167414-A-15	1.13	361.35	mg/l		9.0	man acc	
143	ms 240-167414-A-1	1.13	370.90	mg/l		9.0	man acc	
144	msd 240-167414-A-	1.13	369.48	mg/l		9.0	man acc	
145	CCB	1.13	-0.41	mg/l		0.0	man acc	Outside calibration
146	CCV CL	1.13	24.89	mg/l		0.0	man acc	
150	LCS CL	1.13	25.02	mg/l		0.0	man acc	
151	MB	1.13	-0.27	mg/l		0.0	man acc	Outside calibration
152	ms 620-4610-F-2	1.13	57.80	mg/l		1.0	man acc	
153	ms 240-167414-A-1	1.13	277.91	mg/l		9.0	man acc	
154	msd 620-4610-F-2	1.13	60.89	mg/l		1.0	man acc	
155	msd 240-167414-A-	1.13	276.08	mg/l		9.0	man acc	
156	240-167414-A-17	1.13	435.98	mg/l		9.0	man acc	
165	240-167414-A-4	1.13	538.06	mg/l		19.0	man acc	
169	240-167414-A-14	1.13	943.56	mg/l		19.0	man acc	
170	240-167414-A-13	1.13	261.32	mg/l		9.0	man acc	
171	240-167414-A-11	1.13	461.69	mg/l		9.0	man acc	
218	CCB	1.13	-0.53	mg/l		0.0	man acc	Outside calibration
219	CCV CL	1.13	24.84	mg/l		0.0	man acc	
220	LCS CL	1.13	25.23	mg/l		0.0	man acc	
221	MB	1.13	-0.51	mg/l		0.0	man acc	Outside calibration
224	620-4903-H-5	1.13	5.57	mg/l		0.0	man acc	
225	620-4903-G-6	1.13	16.43	mg/l		0.0	man acc	
227	620-4938-H-2	1.13	34.37	mg/l		0.0	man acc	
228	480-198293-K-2	1.13	7.97	mg/l		0.0	man acc	
229	240-167693-A-2	1.13	539.47	mg/l		19.0	man acc	
230	620-4610-H-4	1.13	324.15	mg/l		9.0	man acc	
231	620-4610-F-5	1.13	383.83	mg/l		9.0	man acc	
236	620-4610-H-6	1.13	415.85	mg/l		9.0	man acc	
237	ms 480-198293-K-2	1.13	30.08	mg/l		0.0	man acc	
238	msd 480-198293-K-	1.13	29.51	mg/l		0.0	man acc	
308	CCB	1.13	-0.20	mg/l		0.0	man acc	Outside calibration
309	CCV CL	1.13	25.14	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
310	LCS CL	1.13	25.37	mg/l		0.0	man acc	
311	MB	1.13	0.26	mg/l		0.0	man acc	Outside calibration
312	240-167414-A-18	1.13	438.84	mg/l		9.0	man acc	
313	240-167693-A-1	1.13	559.80	mg/l		19.0	man acc	
314	620-4610-H-9	1.13	25.09	mg/l		0.0	man acc	
315	ms 620-4610-H-9	1.13	44.54	mg/l		0.0	man acc	
316	msd 620-4610-H-9	1.13	43.64	mg/l		0.0	man acc	
318	620-4610-H-8	1.13	80.98	mg/l		1.0	man acc	
319	620-4610-O-10	1.13	24.46	mg/l		0.0	man acc	
326	620-4903-H-1	1.13	148.66	mg/l		4.0	man acc	
327	CCB	1.13	-0.38	mg/l		0.0	man acc	Outside calibration
328	CCV CL	1.13	25.03	mg/l		0.0	man acc	
329	LCS CL	1.13	25.08	mg/l		0.0	man acc	
330	MB	1.13	-0.21	mg/l		0.0	man acc	Outside calibration
331	620-4903-G-2	1.13	185.63	mg/l		4.0	man acc	
332	620-4903-G-3	1.13	178.91	mg/l		4.0	man acc	
333	620-4903-I-4	1.13	118.57	mg/l		4.0	man acc	
334	ms 620-4903-I-4	1.13	136.66	mg/l		4.0	man acc	
335	msd 620-4903-I-4	1.13	135.14	mg/l		4.0	man acc	
336	480-198400-H-3	1.13	31.62	mg/l		0.0	man acc	
337	480-198400-F-8	1.13	6.72	mg/l		0.0	man acc	
338	CCB	1.13	-0.16	mg/l		0.0	man acc	Outside calibration
339	CCV CL	1.13	24.82	mg/l		0.0	man acc	
346	LCS CL	1.13	24.80	mg/l		0.0	man acc	
347	MB	1.13	-0.39	mg/l		0.0	man acc	Outside calibration
348	480-198400-H-1	1.13	8.73	mg/l		0.0	man acc	
349	ms 480-198400-H-1	1.13	30.23	mg/l		0.0	man acc	
350	msd 480-198400-H-	1.13	30.28	mg/l		0.0	man acc	
351	CCB	1.13	-0.21	mg/l		0.0	man acc	Outside calibration
352	CCV CL	1.13	25.21	mg/l		0.0	man acc	
353	LCS CL	1.13	25.14	mg/l		0.0	man acc	
354	MB	1.13	-0.27	mg/l		0.0	man acc	Outside calibration
355	480-198440-H-2	1.13	12.73	mg/l		0.0	man acc	
356	480-198481-H-5	1.13	41.28	mg/l		0.0	man acc	
360	480-198438-F-1	1.13	139.05	mg/l		3.0	man acc	
361	ms 480-198489-F-1	1.13	41.26	mg/l		0.0	man acc	
362	msd 480-198489-F-	1.13	38.67	mg/l		0.0	man acc	
363	480-198438-F-2	1.13	341.94	mg/l		9.0	man acc	
364	480-198489-H-1	1.13	18.29	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
367	480-198439-E-7	1.13	150.01	mg/l		4.0	man acc	
373	CCB	1.13	-0.32	mg/l		0.0	man acc	Outside calibration
374	CCV CL	1.13	25.04	mg/l		0.0	man acc	
375	LCS CL	1.13	25.27	mg/l		0.0	man acc	
376	MB	1.13	-0.29	mg/l		0.0	man acc	Outside calibration
381	480-198495-G-9	1.13	453.79	mg/l		14.0	man acc	
387	480-198495-G-8	1.13	384.23	mg/l		9.0	man acc	
388	480-198495-G-7	1.13	836.98	mg/l		19.0	man acc	
389	ms 480-198495-G-9	1.13	479.55	mg/l		14.0	man acc	
390	480-198495-G-11	1.13	551.34	mg/l		14.0	man acc	
391	CCB	1.13	-0.32	mg/l		0.0	man acc	Outside calibration
392	CCV CL	1.13	25.04	mg/l		0.0	man acc	
393	LCS CL	1.13	24.99	mg/l		0.0	man acc	
394	MB	1.13	-0.32	mg/l		0.0	man acc	Outside calibration
395	msd 480-198495-G	1.13	489.33	mg/l		14.0	man acc	
397	480-198495-G-13	1.13	634.00	mg/l		19.0	man acc	
398	ms 480-198495-G-1	1.13	637.32	mg/l		19.0	man acc	
400	msd 480-198495-G	1.13	649.01	mg/l		19.0	man acc	
401	CCB	1.13	-0.06	mg/l		0.0	man acc	Outside calibration
402	CCV CL	1.13	25.10	mg/l		0.0	man acc	
403	LCS CL	1.13	25.60	mg/l		0.0	man acc	
404	MB	1.13	-0.29	mg/l		0.0	man acc	Outside calibration
405	480-198495-G-1	1.13	156.60	mg/l		4.0	man acc	
406	480-198495-G-2	1.13	141.37	mg/l		4.0	man acc	
407	480-198495-G-3	1.13	167.81	mg/l		4.0	man acc	
408	480-198495-G-4	1.13	182.40	mg/l		4.0	man acc	
409	620-4610-F-7	1.13	1,526.11	mg/l		39.0	man acc	
410	620-4703-H-2	1.13	4,091.62	mg/l		99.0	man acc	
412	620-4938-H-1	1.13	323.88	mg/l		9.0	man acc	
413	480-198489-F-1	1.13	18.10	mg/l		0.0	man acc	
414	620-4938-H-3	1.13	230.47	mg/l		4.0	man acc	
415	CCB	1.13	-0.06	mg/l		0.0	man acc	Outside calibration
416	CCV CL	1.13	25.03	mg/l		0.0	man acc	
417	LCS CL	1.13	25.01	mg/l		0.0	man acc	
420	MB	1.13	-0.35	mg/l		0.0	man acc	Outside calibration
421	480-198394-H-1	1.13	165.14	mg/l		4.0	man acc	
422	480-198394-K-1	1.13	158.81	mg/l		4.0	man acc	
424	480-198495-G-6	1.13	420.37	mg/l		9.0	man acc	
428	480-198495-G-10	1.13	296.23	mg/l		9.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
429	480-198495-G-12	1.13	74.44	mg/l		1.0	man acc	
430	480-198495-G-14	1.13	220.80	mg/l		4.0	man acc	
432	480-198510-b-1	1.13	17.86	mg/l		0.0	man acc	
433	480-198495-G-15	1.13	675.78	mg/l		19.0	man acc	
434	480-198510-b-2	1.13	39.22	mg/l		0.0	man acc	
435	480-198495-G-16	1.13	545.72	mg/l		14.0	man acc	
445	CCB	1.13	-0.30	mg/l		0.0	man acc	Outside calibration
446	CCV CL	1.13	24.79	mg/l		0.0	man acc	
447	LCS CL	1.13	24.76	mg/l		0.0	man acc	
448	MB	1.13	-0.35	mg/l		0.0	man acc	Outside calibration
449	480-198510-b-7	1.13	14.68	mg/l		0.0	man acc	
455	480-198393-F-1	1.13	106.43	mg/l		2.0	man acc	
457	480-198510-b-4	1.13	1.31	mg/l		0.0	man acc	
458	480-198393-F-3	1.13	134.19	mg/l		2.0	man acc	
459	480-198497-G-1	1.13	416.75	mg/l		19.0	man acc	
460	480-198497-G-2	1.13	846.10	mg/l		19.0	man acc	
461	480-198497-G-3	1.13	566.44	mg/l		14.0	man acc	
462	ms 480-198510-b-4	1.13	23.43	mg/l		0.0	man acc	
463	CCB	1.13	-0.31	mg/l		0.0	man acc	Outside calibration
464	CCV CL	1.13	24.70	mg/l		0.0	man acc	
465	LCS CL	1.13	24.65	mg/l		0.0	man acc	
466	MB	1.13	-0.43	mg/l		0.0	man acc	Outside calibration
467	msd 480-198510-b-	1.13	22.78	mg/l		0.0	man acc	
468	480-198510-b-3	1.13	1.32	mg/l		0.0	man acc	
469	480-198510-b-5	1.13	10.46	mg/l		0.0	man acc	
470	480-198510-b-6	1.13	3.87	mg/l		0.0	man acc	
475	480-198495-G-5	1.13	697.76	mg/l		19.0	man acc	
481	620-4703-I-1	1.13	15,385.96	mg/l		399.0	man acc	
493	CCB	1.13	-0.44	mg/l		0.0	man acc	Outside calibration
494	CCV CL	1.13	24.66	mg/l		0.0	man acc	
495	LCS CL	1.13	24.70	mg/l		0.0	man acc	
496	MB	1.13	-0.37	mg/l		0.0	man acc	Outside calibration
497	480-198510-b-14	1.13	17.73	mg/l		0.0	man acc	
498	480-198510-b-15	1.13	5.35	mg/l		0.0	man acc	
499	480-198510-b-17	1.13	-0.40	mg/l		0.0	man acc	Outside calibration
500	480-198518-E-1	1.13	1,046.81	mg/l		29.0	man acc	
501	ms 480-198518-E-1	1.13	1,056.77	mg/l		29.0	man acc	
502	msd 480-198518-E-	1.13	1,072.38	mg/l		29.0	man acc	
503	480-198544-F-1	1.13	3.09	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
504	480-198544-E-2	1.13	20.15	mg/l		0.0	man acc	
505	CCB	1.13	-0.55	mg/l		0.0	man acc	Outside calibration
506	CCV CL	1.13	24.83	mg/l		0.0	man acc	
507	LCS CL	1.13	24.40	mg/l		0.0	man acc	
508	MB	1.13	-0.58	mg/l		0.0	man acc	Outside calibration
509	480-198544-D-3	1.13	29.49	mg/l		0.0	man acc	
510	480-198580-L-1	1.13	1.55	mg/l		0.0	man acc	
511	480-198582-I-1	1.13	-0.52	mg/l		0.0	man acc	Outside calibration
512	ms 480-198582-I-1	1.13	20.71	mg/l		0.0	man acc	
513	msd 480-198582-I-	1.13	21.96	mg/l		0.0	man acc	
514	480-198581-I-2	1.13	4.24	mg/l		0.0	man acc	
516	480-198582-I-2	1.13	42.96	mg/l		0.0	man acc	
517	CCB	1.13	-0.23	mg/l		0.0	man acc	Outside calibration
518	CCV CL	1.13	24.67	mg/l		0.0	man acc	
519	LCS CL	1.13	24.75	mg/l		0.0	man acc	
520	MB	1.13	-0.29	mg/l		0.0	man acc	Outside calibration
521	480-198582-I-3	1.13	2.40	mg/l		0.0	man acc	
522	480-198582-I-4	1.13	26.97	mg/l		0.0	man acc	
523	480-198582-I-5	1.13	28.00	mg/l		0.0	man acc	
524	480-198582-I-6	1.13	2.52	mg/l		0.0	man acc	
526	480-198602-I-4	1.13	8.89	mg/l		0.0	man acc	
527	ms 480-198602-I-4	1.13	29.48	mg/l		0.0	man acc	
528	msd 480-198602-I-4	1.13	28.49	mg/l		0.0	man acc	
529	CCB	1.13	-0.38	mg/l		0.0	man acc	Outside calibration
530	CCV CL	1.13	24.86	mg/l		0.0	man acc	
531	LCS CL	1.13	25.09	mg/l		0.0	man acc	
532	MB	1.13	-0.47	mg/l		0.0	man acc	Outside calibration
533	480-198582-I-7	1.13	38.56	mg/l		0.0	man acc	
534	480-198510-b-10	1.13	15.28	mg/l		0.0	man acc	
535	480-198510-b-12	1.13	3.47	mg/l		0.0	man acc	
536	CCB	1.13	-0.19	mg/l		0.0	man acc	Outside calibration
537	CCV CL	1.13	25.28	mg/l		0.0	man acc	
538	LCS CL	1.13	25.29	mg/l		0.0	man acc	
539	MB	1.13	-0.11	mg/l		0.0	man acc	Outside calibration
540	480-198602-I-3	1.13	5.35	mg/l		0.0	man acc	
541	480-198602-I-2	1.13	4.33	mg/l		0.0	man acc	
542	ms 480-198582-I-7	1.13	56.04	mg/l		1.0	man acc	
543	msd 480-198582-I-7	1.13	56.48	mg/l		1.0	man acc	
544	480-198510-b-8	1.13	90.46	mg/l		1.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
546	480-198602-I-1	1.13	4.29	mg/l		0.0	man acc	
547	480-198651-U-2	1.13	2.85	mg/l		0.0	man acc	
548	ms 480-198651-U-2	1.13	25.90	mg/l		0.0	man acc	
549	msd 480-198651-U-	1.13	23.44	mg/l		0.0	man acc	
550	CCB	1.13	-0.30	mg/l		0.0	man acc	Outside calibration
551	CCV CL	1.13	25.21	mg/l		0.0	man acc	
552	LCS CL	1.13	24.98	mg/l		0.0	man acc	
553	MB	1.13	-0.23	mg/l		0.0	man acc	Outside calibration
554	480-198510-b-11	1.13	1.54	mg/l		0.0	man acc	
556	480-198582-I-9	1.13	43.28	mg/l		0.0	man acc	
557	480-198582-I-8	1.13	3.93	mg/l		0.0	man acc	
558	480-198651-U-1	1.13	2.21	mg/l		0.0	man acc	
559	480-198582-I-11	1.13	160.00	mg/l		3.0	man acc	
562	CCB	1.13	0.08	mg/l		0.0	man acc	Outside calibration
563	CCV CL	1.13	25.02	mg/l		0.0	man acc	
564	LCS CL	1.13	25.25	mg/l		0.0	man acc	
565	MB	1.13	-0.21	mg/l		0.0	man acc	Outside calibration
568	480-198602-I-6	1.13	3.90	mg/l		0.0	man acc	
569	ms 480-198602-I-6	1.13	25.73	mg/l		0.0	man acc	
570	msd 480-198602-I-6	1.13	27.35	mg/l		0.0	man acc	
571	480-198602-I-5	1.13	3.91	mg/l		0.0	man acc	
573	480-198652-G-1	1.13	0.66	mg/l		0.0	man acc	Outside calibration
574	480-198651-V-7	1.13	3.78	mg/l		0.0	man acc	
575	CCB	1.13	-0.31	mg/l		0.0	man acc	Outside calibration
576	CCV CL	1.13	24.64	mg/l		0.0	man acc	
577	LCS CL	1.13	24.71	mg/l		0.0	man acc	
578	MB	1.13	-0.23	mg/l		0.0	man acc	Outside calibration
579	480-198651-T-6	1.13	1.88	mg/l		0.0	man acc	
580	480-198612-E-1	1.13	1,080.47	mg/l		29.0	man acc	
581	480-198651-U-4	1.13	2.39	mg/l		0.0	man acc	
582	480-198651-U-3	1.13	3.18	mg/l		0.0	man acc	
587	480-198582-I-10	1.13	43.48	mg/l		0.0	man acc	
588	480-198510-b-13	1.13	544.48	mg/l		19.0	man acc	
589	480-198718-H-2	1.13	124.09	mg/l		2.0	man acc	
590	ms 480-198718-H-2	1.13	141.31	mg/l		2.0	man acc	
592	msd 480-198718-H-	1.13	139.89	mg/l		2.0	man acc	
593	480-198718-H-4	1.13	-0.46	mg/l		0.0	man acc	Outside calibration
594	CCB	1.13	-0.45	mg/l		0.0	man acc	Outside calibration
595	CCV CL	1.13	24.86	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
596	LCS CL	1.13	24.95	mg/l		0.0	man acc	
599	MB	1.13	-0.25	mg/l		0.0	man acc	Outside calibration
601	480-198651-U-5	1.13	2.04	mg/l		0.0	man acc	
602	480-198652-H-4	1.13	1.48	mg/l		0.0	man acc	
603	480-198652-H-3	1.13	3.23	mg/l		0.0	man acc	
605	480-198630-C-1	1.13	109.60	mg/l		4.0	man acc	
607	msd 480-198652-H-	1.13	25.49	mg/l		0.0	man acc	
608	480-198652-G-2	1.13	3.08	mg/l		0.0	man acc	
609	480-198720-L-2	1.13	1.98	mg/l		0.0	man acc	
610	CCB	1.13	-0.31	mg/l		0.0	man acc	Outside calibration
611	CCV CL	1.13	24.84	mg/l		0.0	man acc	
612	LCS CL	1.13	24.56	mg/l		0.0	man acc	
613	MB	1.13	-0.49	mg/l		0.0	man acc	Outside calibration
614	480-198718-H-3	1.13	123.79	mg/l		2.0	man acc	
615	480-198720-L-1	1.13	3.54	mg/l		0.0	man acc	
616	480-198719-N-1	1.13	7.82	mg/l		0.0	man acc	
617	480-198718-G-9	1.13	1.67	mg/l		0.0	man acc	
618	ms 480-198652-H-3	1.13	24.70	mg/l		2.0	man acc	
619	ms 480-198718-G-9	1.13	24.88	mg/l		0.0	man acc	
620	msd 480-198718-G-	1.13	24.42	mg/l		0.0	man acc	
621	480-198718-H-8	1.13	1.22	mg/l		0.0	man acc	
622	480-198718-G-7	1.13	10.60	mg/l		0.0	man acc	
623	480-198718-H-6	1.13	-0.48	mg/l		0.0	man acc	Outside calibration
624	CCB	1.13	-0.38	mg/l		0.0	man acc	Outside calibration
625	CCV CL	1.13	25.09	mg/l		0.0	man acc	
626	LCS CL	1.13	25.04	mg/l		0.0	man acc	
627	MB	1.13	-0.32	mg/l		0.0	man acc	Outside calibration
628	480-198727-H-5	1.13	4.47	mg/l		0.0	man acc	
629	480-198727-H-4	1.13	7.90	mg/l		0.0	man acc	
630	480-198727-H-3	1.13	5.78	mg/l		0.0	man acc	
631	480-198727-H-2	1.13	4.28	mg/l		0.0	man acc	
632	480-198727-H-1	1.13	7.50	mg/l		0.0	man acc	
633	480-198723-L-1	1.13	15.41	mg/l		0.0	man acc	
634	ms 480-198723-L-1	1.13	35.58	mg/l		0.0	man acc	
636	msd 480-198723-L-	1.13	35.52	mg/l		0.0	man acc	
637	CCB	1.13	-0.30	mg/l		0.0	man acc	Outside calibration
638	CCV CL	1.13	25.00	mg/l		0.0	man acc	
639	LCS CL	1.13	25.16	mg/l		0.0	man acc	
640	MB	1.13	-0.33	mg/l		0.0	man acc	Outside calibration

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
641	480-198720-J-4	1.13	1.76	mg/l		0.0	man acc	
642	480-198720-H-3	1.13	14.19	mg/l		0.0	man acc	
646	480-198763-G-6	1.13	1.93	mg/l		0.0	man acc	
647	480-198763-G-5	1.13	13.21	mg/l		0.0	man acc	
657	480-198727-H-6	1.13	5.81	mg/l		0.0	man acc	
663	480-198738-E-1	1.13	1,080.75	mg/l		29.0	man acc	
665	480-198510-b-9	1.13	527.82	mg/l		19.0	man acc	
672	480-198718-H-5	1.13	344.55	mg/l		9.0	man acc	
679	CCB	1.13	-0.21	mg/l		0.0	man acc	Outside calibration
680	CCV CL	1.13	25.02	mg/l		0.0	man acc	
681	LCS CL	1.13	25.05	mg/l		0.0	man acc	
682	MB	1.13	-0.36	mg/l		0.0	man acc	Outside calibration
688	480-198581-I-1	1.13	1,232.99	mg/l		29.0	man acc	
694	480-198626-G-3	1.13	1,764.90	mg/l		49.0	man acc	
695	480-198626-G-1	1.13	1,393.30	mg/l		39.0	man acc	
696	CCB	1.13	-0.28	mg/l		0.0	man acc	Outside calibration
697	CCV CL	1.13	25.06	mg/l		0.0	man acc	
698	LCS CL	1.13	24.99	mg/l		0.0	man acc	
699	MB	1.13	-0.38	mg/l		0.0	man acc	Outside calibration

Historical Data Summary Report

For Batch 629332

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits	
480-198293-K-2	T22S	SM4500_Cl_I	Chloride, Dissolved	Dissolved	mg/L	8	1.0	8.0	☐	0.664 - 8.336	☑	2.16 - 7.8	OK
480-198393-F-1	FIELD DUP (SW)	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	3.0	106	☐	28.115 - 171.435	☐	54.64 - 160.8	
480-198393-F-3	SW-5	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	3.0	134	☐	0 - 309.941	☐	66.96 - 308.4	
480-198394-H-1	T21S	SM4500_Cl_I	Chloride, Dissolved	Dissolved	mg/L	8	5.0	165	☐	0 - 182.938	☑	24.32 - 146.4	OK
480-198394-K-1	T21S	SM4500_Cl_I	Chloride	Total/NA	mg/L	6	5.0	159	☐	0 - 185.066	☐	39.04 - 168	
480-198400-F-8	SW-5	9251	Chloride	Total/NA	mg/L	8	1.0	6.7	☐	0 - 48.202	☑	8.24 - 50.88	OK
480-198400-H-1	DUP	9251	Chloride	Total/NA	mg/L	8	1.0	8.7	☐	0 - 263.269	☑	17.44 - 252	OK
480-198400-H-3	MW-13R	9251	Chloride	Total/NA	mg/L	8	1.0	31.6	☑	12.79 - 24.335	☑	12.88 - 26.04	RE:
480-198438-F-1	LM-2-SW	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	4.0	139	☐	14.093 - 256.757	☐	60.32 - 267.6	
480-198438-F-2	LM-3-SW	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	10.0	342	☑	0 - 319.614	☑	52.48 - 308.4	OK 629134
480-198439-E-7	PZ-28S	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	5.0	150	☐	72.372 - 214.128	☐	87.2 - 229.2	
480-198440-H-2	OUTFALL #003	SM4500_Cl_I	Chloride	Total/NA	mg/L	2	1.0	12.7	☑	21.2 - 22.4	☑	17.44 - 26.16	OK: <5pts
480-198481-H-5	G35U	9251	Chloride, Dissolved	Dissolved	mg/L	8	1.0	41.3	☑	12.698 - 30.327	☑	14.08 - 32.28	OK 629134
480-198489-F-1	DUP	SM4500_Cl_I	Chloride, Dissolved	Dissolved	mg/L	2	1.0	18.1	☐	0 - 2384	☑	606.4 - 909.6	OK
480-198489-H-1	DUP	SM4500_Cl_I	Chloride	Total/NA	mg/L	2	1.0	18.3	☐	0 - 2185	☑	566 - 849	OK
480-198495-G-1	03-197-1	9251	Chloride	Total/NA	mg/L	8	5.0	157	☐	128.446 - 186.054	☐	113.6 - 206.4	
480-198495-G-10	75R	9251	Chloride	Total/NA	mg/L	8	10.0	296	☐	0 - 1039.972	☐	141.6 - 973.2	
480-198495-G-11	76R	9251	Chloride	Total/NA	mg/L	8	15.0	551	☐	315.498 - 735.002	☐	341.6 - 771.6	
480-198495-G-12	89-156-2	9251	Chloride	Total/NA	mg/L	8	2.0	74.4	☐	0 - 656.812	☑	80.8 - 637.2	OK
480-198495-G-13	98-156-3	9251	Chloride	Total/NA	mg/L	8	20.0	634	☐	0 - 1456.36	☐	295.2 - 1308	
480-198495-G-14	98-186-2	9251	Chloride	Total/NA	mg/L	8	5.0	221	☐	0 - 656.812	☐	80.8 - 637.2	
480-198495-G-15	D-19RR	9251	Chloride	Total/NA	mg/L	8	20.0	676	☐	364.708 - 926.542	☐	348 - 906	
480-198495-G-16	DUP@76R	9251	Chloride	Total/NA	mg/L	1	15.0	546	☑	578 - 578	☐	462.4 - 693.6	
480-198495-G-2	03-197-2	9251	Chloride	Total/NA	mg/L	8	5.0	141	☐	116.585 - 181.415	☐	104 - 195.6	
480-198495-G-3	03-198-1	9251	Chloride	Total/NA	mg/L	8	5.0	168	☐	133.343 - 199.407	☐	120 - 217.2	
480-198495-G-4	03-198-2	9251	Chloride	Total/NA	mg/L	8	5.0	182	☐	172.175 - 213.575	☐	150.4 - 250.8	
480-198495-G-5	03-199-1	9251	Chloride	Total/NA	mg/L	8	20.0	698	☑	571.685 - 696.815	☐	480.8 - 795.6	
480-198495-G-6	03-199-2	9251	Chloride	Total/NA	mg/L	8	10.0	420	☐	346.941 - 494.809	☐	303.2 - 552	
480-198495-G-7	03-200-1	9251	Chloride	Total/NA	mg/L	8	20.0	837	☐	658.752 - 994.998	☐	580.8 - 1065.6	
480-198495-G-8	03-200-2	9251	Chloride	Total/NA	mg/L	8	10.0	384	☐	290.776 - 482.724	☐	280 - 526.8	
480-198495-G-9	357R	9251	Chloride	Total/NA	mg/L	8	15.0	454	☐	416.186 - 725.314	☐	358.4 - 744	
480-198497-G-1	20-183-2R	9251	Chloride	Total/NA	mg/L	8	20.0	417	☐	46.661 - 1559.839	☐	351.2 - 1380	
480-198497-G-2	88-148-1	9251	Chloride	Total/NA	mg/L	8	20.0	846	☐	797.288 - 1252.462	☐	732 - 1428	
480-198497-G-3	96-148-2R	9251	Chloride	Total/NA	mg/L	8	15.0	566	☐	370.028 - 782.972	☐	392.8 - 820.8	
480-198510-B-1	MW-10R-220525	9251	Chloride	Total/NA	mg/L	2	1.0	17.9	☐	17.3 - 34.4	☑	20.68 - 31.02	OK
480-198510-B-10	MW-NEW-1-220525	9251	Chloride	Total/NA	mg/L	2	1.0	15.3	☑	8.6 - 14	☑	9.04 - 13.56	OK: <5pts
480-198510-B-11	SH-8R-220525	9251	Chloride	Total/NA	mg/L	2	1.0	1.5	☐	0.7 - 2.2	☐	1.16 - 1.74	
480-198510-B-12	SHMW-16-220526	9251	Chloride	Total/NA	mg/L	2	1.0	3.5	☐	0 - 5.6	☑	2.2 - 3.3	OK
480-198510-B-13	SHMW-2-220525	9251	Chloride	Total/NA	mg/L	2	20.0	544	☐	0 - 742	☑	267.2 - 400.8	OK

Historical Data Summary Report

For Batch 629332

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198510-B-14	SHMW-3-220525	9251	Chloride	Total/NA	mg/L	2	1.0	17.7	☑	31.8 - 35.7	☑	27 - 40.5 OK: <5pts
480-198510-B-15	SHMW-6-220526	9251	Chloride	Total/NA	mg/L	2	1.0	5.4	☐	0 - 34.5	☑	9.72 - 14.58 OK
480-198510-B-2	MW-11-220525	9251	Chloride	Total/NA	mg/L	2	1.0	39.2	☐	26.8 - 48.7	☐	30.2 - 45.3
480-198510-B-3	MW-15-220525	9251	Chloride	Total/NA	mg/L	2	1.0	1.3	☐	0 - 54.8	☑	12.64 - 18.96 OK
480-198510-B-4	MW-17-220525	9251	Chloride	Total/NA	mg/L	2	1.0	1.3	☐	0 - 4.4	☑	1.48 - 2.22 OK
480-198510-B-5	MW-210220526	9251	Chloride	Total/NA	mg/L	2	1.0	10.5	☐	9 - 16.2	☐	10.08 - 15.12
480-198510-B-6	MW-215-220525	9251	Chloride	Total/NA	mg/L	2	1.0	3.9	☐	0 - 9	☐	3.48 - 5.22
480-198510-B-7	MW-3S-220526	9251	Chloride	Total/NA	mg/L	2	1.0	14.7	☐	5.6 - 26.9	☐	13 - 19.5
480-198510-B-8	MW-4S-220526	9251	Chloride	Total/NA	mg/L	2	2.0	90.5	☐	59.8 - 153.1	☐	85.16 - 127.74
480-198510-B-9	MW-666-220525	9251	Chloride	Total/NA	mg/L	2	20.0	528	☑	9.2 - 13.1	☑	8.92 - 13.38 OK: <5pts
480-198518-E-1	Cell A #9	SM4500_Cl_I	Chloride	Total/NA	mg/L	7	30.0	1050	☐	1019.733 - 1157.41	☐	848 - 1344
480-198544-D-3	MW-3	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	29.5	☐	0 - 266.428	☐	24.8 - 290.4
480-198544-E-2	MW-2	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	20.2	☐	0 - 160.7	☐	2.96 - 158.4
480-198544-F-1	MW-1	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	3.1	☐	0 - 230.629	☑	4 - 234 ok
480-198580-L-1	POND01	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	1.6	☐	0 - 10.139	☐	0.784 - 8.88
480-198581-I-1	MLLA3	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	30.0	1230	☑	0 - 8.364	☑	1.52 - 8.16 RE:
480-198581-I-2	MLLA2/GASCOND	SM4500_Cl_I	Chloride	Total/NA	mg/L	2	1.0	4.2	☐	0 - 1362.1	☑	285.56 - 428.34 OK
480-198582-I-1	01FB	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.148	☐	0 - 1.08
480-198582-I-10	MW19S	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	43.5	☐	41.912 - 50.538	☐	35.12 - 57.96
480-198582-I-11	MW20R	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	4.0	160	☐	0 - 253.483	☐	13.44 - 207.6
480-198582-I-2	B11D	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	43.0	☐	21.85 - 79.525	☐	30.64 - 80.88
480-198582-I-3	B11S	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	2.4	☐	0.186 - 3.564	☐	0.96 - 3.24
480-198582-I-4	B15D	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	27.0	☐	22.387 - 39.913	☐	21.84 - 45.36
480-198582-I-5	B15S	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	28.0	☐	21.176 - 36.874	☐	20.24 - 39.72
480-198582-I-6	MW12D	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	2.5	☐	0.58 - 3.52	☐	0.96 - 3.12
480-198582-I-7	MW17D	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	38.6	☐	30.912 - 49.613	☐	28.24 - 55.32
480-198582-I-8	MW17S	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	3.9	☐	0.406 - 7.869	☐	1.68 - 7.56
480-198582-I-9	MW19D	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	43.3	☐	31.581 - 58.319	☐	29.36 - 62.76
480-198602-I-1	DUP 1	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	4.3	☐	0.374 - 6.551	☐	1.68 - 6.6
480-198602-I-2	MW-DB	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	4.3	☐	1.94 - 5.41	☐	2.16 - 5.28
480-198602-I-3	MW-DI	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	5.3	☐	1.508 - 7.417	☐	2.64 - 7.8
480-198602-I-4	MW-DLA	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	8.9	☐	0 - 81.279	☐	6.56 - 88.44
480-198602-I-5	MW-IB	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	3.9	☐	2.026 - 5.099	☐	1.92 - 5.04
480-198602-I-6	MW-II	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	3.9	☐	1.83 - 4.495	☐	1.68 - 4.32
480-198612-E-1	Cell A #10	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	30.0	1080	☐	1024.617 - 1155.383	☐	848 - 1344
480-198630-C-1	Irrigation Well	SM4500_Cl_I	Chloride, Dissolved	Dissolved	mg/L	7	5.0	110	☐	74.347 - 114.625	☐	69.6 - 128.4
480-198651-T-6	MW-LI	SM4500_Cl_I	Chloride	Total/NA	mg/L	1	1.0	1.9	☑	1.6 - 1.6	☐	1.28 - 1.92
480-198651-U-1	DUP 1	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	2.2	☐	0.374 - 6.551	☐	1.68 - 6.6
480-198651-U-2	MW- JL	SM4500_Cl_I	Chloride	Total/NA	mg/L	2	1.0	2.9	☐	0.8 - 3.8	☑	1.84 - 2.76 OK

Historical Data Summary Report

For Batch 629332

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198651-U-3	MW-JI	SM4500_Cl_I	Chloride	Total/NA	mg/L	2	1.0	3.2	☐	2 - 3.5	☐	2.2 - 3.3
480-198651-U-4	MW-JB	SM4500_Cl_I	Chloride	Total/NA	mg/L	4	1.0	2.4	☐	0 - 3.623	☐	0.672 - 3
480-198651-U-5	MW-LLA	SM4500_Cl_I	Chloride	Total/NA	mg/L	2	1.0	2.0	☐	1.8 - 2.7	☐	1.8 - 2.7
480-198651-V-7	MW-LB	SM4500_Cl_I	Chloride	Total/NA	mg/L	2	1.0	3.8	☐	3.5 - 3.8	☐	2.92 - 4.38
480-198652-G-1	MW-ML	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	0.66	☐	0 - 1.573	☐	0 - 1.44
480-198652-G-2	MW-NB	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	3.1	☐	0.167 - 5.558	☐	1.36 - 5.64
480-198652-H-3	MW-NI	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	3.2	☐	0.547 - 4.853	☐	1.28 - 4.92
480-198652-H-4	MW-NL	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	1.5	☐	0 - 4.117	☐	0 - 3.96
480-198718-G-7	NSLMW06	SM4500_Cl_I	Chloride	Total/NA	mg/L	1	1.0	10.6	☑	31.9 - 31.9	☑	25.52 - 38.28 OK: <5pts
480-198718-G-9	NSLMW08	SM4500_Cl_I	Chloride	Total/NA	mg/L	1	1.0	1.7	☐	1.7 - 1.7	☐	1.36 - 2.04
480-198718-H-2	NSLMW05	SM4500_Cl_I	Chloride	Total/NA	mg/L	1	3.0	124	☑	121 - 121	☐	96.8 - 145.2
480-198718-H-3	NSLMW10	SM4500_Cl_I	Chloride	Total/NA	mg/L	1	3.0	124	☑	119 - 119	☐	95.2 - 142.8
480-198718-H-4	NSLFW01	SM4500_Cl_I	Chloride	Total/NA	mg/L	1	1.0	1.0	☑	26.6 - 26.6	☑	21.28 - 31.92 OK: <5pts
480-198718-H-5	NSLEW01	SM4500_Cl_I	Chloride	Total/NA	mg/L	1	10.0	345	☑	66.1 - 66.1	☑	52.88 - 79.32 OK: <5pts
480-198718-H-8	NSLMW07	SM4500_Cl_I	Chloride	Total/NA	mg/L	1	1.0	1.2	☑	1.1 - 1.1	☐	0.88 - 1.32
480-198719-N-1	MW-OL	SM4500_Cl_I	Chloride	Total/NA	mg/L	2	1.0	7.8	☐	0 - 12	☑	4.2 - 6.3 OK
480-198720-H-3	MW-1B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	14.2	☐	0 - 38.454	☐	2.48 - 40.8
480-198720-L-1	CD-1	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	3.5	☑	0 - 3.257	☑	0 - 2.64 RE:
480-198720-L-2	CD-1RA	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	2.0	☐	0 - 9.877	☐	0 - 9.84
480-198723-L-1	MSW Phase 4 Outfa	SM4500_Cl_I	Chloride	Total/NA	mg/L	2	1.0	15.4	☐	14 - 21.8	☐	14.32 - 21.48
480-198727-H-1	MSW Cell 1A/B/C/D	SM4500_Cl_I	Chloride	Total/NA	mg/L	7	1.0	7.5	☐	4.588 - 9.47	☐	4.56 - 10.2
480-198727-H-2	MSW Phase 2 Outfa	SM4500_Cl_I	Chloride	Total/NA	mg/L	6	1.0	4.3	☐	3.842 - 5.491	☐	3.36 - 5.88
480-198727-H-3	MSW Phase 3 Outfa	SM4500_Cl_I	Chloride	Total/NA	mg/L	7	1.0	5.8	☐	0 - 15.578	☐	3.28 - 12.84
480-198727-H-4	MW-PB	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	7.9	☐	3.928 - 14.422	☐	5.04 - 14.28
480-198727-H-5	MW-PI	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	4.5	☐	2.318 - 9.282	☐	3.6 - 9.72
480-198727-H-6	PRF Outfall	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	5.8	☐	3.693 - 9.332	☐	4.24 - 10.2
480-198738-E-1	Cell A #11	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	30.0	1080	☐	1024.617 - 1155.383	☐	848 - 1344

631684

Chloride

325.2/SM4500_CL_E/9251

1000 PPM (MS/MSD/CAL)	5222530	EXP: 04/12/2024
25 PPM (CCV/LCS)	7051378	EXP: 07/26/2022
Color reagent:	6580879	EXP: 06/30/2022
ERA Minerals (ICV): Actual = 58.57 MG/L Range = 56.3 – 66.9 MG/L	6318066	EXP: 04/01/2023

CURVE:

Kone 1: 06-13-2019 50ppm: 5352373	Batch: 478009
Kone 2: 06-26-2022 50ppm: 7051379	Batch: 631684
Kone 3: 05-11-2020 50 ppm: 5915012	Batch: 531059
Gallery 1: 05-20-2022 50 ppm: 7002073	Batch: 627053

Historical Data Summary Report

For Batch 631684

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198581-H-1	MLLA3	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	24.0	1160	☑	0 - 8.364	☑	1.52 - 8.16 CONFIRMED
480-198720-L-1	CD-1	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	ND	☐	0 - 3.257	☐	0 - 2.64
480-198813-J-1	MW-1A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	35.1	☐	18.848 - 49.177	☐	16.8 - 45.24
480-198813-J-10	MW-7A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	19.4	☐	0 - 68.389	☐	6.48 - 51.96
480-198813-J-2	MW-2A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	19.3	☐	5.658 - 28.192	☐	8.96 - 26.88
480-198813-J-3	MW-2B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	75.3	☐	0 - 151.123	☐	13.2 - 105.6
480-198813-J-4	MW-3A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	3.9	☐	0 - 9.572	☐	0 - 7.08
480-198813-J-5	MW-3B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	21.0	☐	19.163 - 23.862	☐	16.16 - 27.24
480-198813-J-6	MW-4A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	10.6	☐	8.301 - 13.474	☐	7.92 - 15.12
480-198813-J-7	MW-5A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	4.5	☐	1.684 - 10.041	☐	3.76 - 11.28
480-198813-J-8	MW-6A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	78.8	☐	0 - 133.94	☐	1.44 - 109.32
480-198813-J-9	MW-6B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	77.2	☐	0 - 90.903	☐	5.36 - 81.12
480-198815-J-1	DO-2	SM4500_Cl_I	Chloride	Total/NA	mg/L	6	1.0	6.4	☐	1.981 - 10.919	☐	3.92 - 10.44
480-198815-J-2	RE-7	SM4500_Cl_I	Chloride	Total/NA	mg/L	6	1.0	7.2	☐	5.082 - 7.684	☐	4.64 - 8.28
480-198840-G-1	DUP	9251	Chloride	Total/NA	mg/L	8	1.0	47.7	☐	0 - 90.978	☐	0 - 83.16
480-198840-G-10	MW-14C-U	9251	Chloride	Total/NA	mg/L	3	1.0	47.1	☐	45.219 - 50.381	☐	38.24 - 57.36
480-198840-G-2	FIELD BLANK	9251	Chloride	Total/NA	mg/L	8	1.0	ND	☐	0 - 44.686	☐	0 - 48
480-198840-G-3	MW-11CU	9251	Chloride	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198840-G-4	MW-12CU	9251	Chloride	Total/NA	mg/L	8	1.0	21.1	☐	0 - 78.194	☐	12.24 - 86.04
480-198840-G-5	MW-19S	9251	Chloride	Total/NA	mg/L	8	1.0	4.7	☐	2.476 - 6.399	☐	3.04 - 6.6
480-198840-G-6	MW-1C	9251	Chloride	Total/NA	mg/L	8	1.0	66.1	☐	0 - 155.952	☐	17.44 - 139.2
480-198840-G-7	MW-21SR	9251	Chloride	Total/NA	mg/L	8	1.0	65.1	☐	0 - 78.194	☐	12.24 - 86.04
480-198840-G-8	MW-2B	9251	Chloride	Total/NA	mg/L	8	1.0	ND	☐	0 - 2.123	☐	0 - 2.28
480-198840-G-9	MW-4A	9251	Chloride	Total/NA	mg/L	8	1.0	1.4	☐	0 - 3.439	☐	0 - 2.76
480-198843-E-1	DUP	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	18.9	☐	0 - 101.028	☐	1.52 - 94.08
480-198843-E-2	MW-12S	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	18.8	☐	7.659 - 21.341	☐	8.72 - 21.6
480-198843-E-3	MW-13S	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	1.2	☐	1.178 - 2.822	☑	1.2 - 2.76 =HIST
480-198843-E-4	MW-14S-R	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	71.3	☐	60.45 - 88.5	☐	52.96 - 97.8
480-198843-E-5	MW-15S	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	42.9	☐	36.41 - 50.065	☐	32.16 - 56.4
480-198843-E-6	MW-17S	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	39.7	☐	16.334 - 62.716	☐	22.32 - 58.44
480-198860-J-1	PGW-1	SM4500_Cl_I	Chloride	Total/NA	mg/L	6	1.0	56.1	☐	17.692 - 76.374	☐	27.36 - 72.84
480-198860-J-2	PLT-2	SM4500_Cl_I	Chloride	Total/NA	mg/L	5	1.0	85.4	☑	85.712 - 163.888	☐	82.4 - 169.2
480-198860-J-3	RE-4	SM4500_Cl_I	Chloride	Total/NA	mg/L	5	1.0	ND	☑	0.656 - 4.424	☑	1.2 - 3.84 OK
480-198860-J-4	RE-5	SM4500_Cl_I	Chloride	Total/NA	mg/L	5	1.0	1.4	☐	0 - 7.438	☑	1.52 - 6 OK
480-198860-J-5	RE-6	SM4500_Cl_I	Chloride	Total/NA	mg/L	3	1.0	19.8	☐	3.937 - 36.53	☐	16.187 - 24.28
480-198860-J-6	RE-8	SM4500_Cl_I	Chloride	Total/NA	mg/L	5	1.0	2.7	☑	3.124 - 6.796	☑	3.36 - 6.84 OK
480-198863-J-1	UD-1	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	27.1	☐	0 - 43.774	☐	7.68 - 45.24
480-198863-J-2	UD-2	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	30.8	☐	0 - 71.6	☐	11.2 - 71.76
480-198866-J-1	SW-1	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	14.3	☐	0 - 26.722	☐	5.2 - 24.96

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Historical Data Summary Report

For Batch 631684

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198866-J-2	SW-2	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	3.7	☐	2.874 - 19.451	☑	5.76 - 19.44
480-198866-J-3	SW-3	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	21.0	☐	0 - 30.104	☐	5.92 - 31.2
480-198890-F-1	MW-10C-U-R	9251	Chloride	Total/NA	mg/L	8	1.0	ND	☐	0 - 43.77	☑	8.56 - 47.28
480-198890-F-2	MW-20S-UD	9251	Chloride	Total/NA	mg/L	8	1.0	9.3	☐	8.141 - 26.984	☑	11.04 - 27.96
480-198890-F-3	MW-30CU	9251	Chloride	Total/NA	mg/L	8	1.0	15.2	☐	0 - 41.34	☐	6.48 - 44.64
480-198890-F-4	MW-31CU	9251	Chloride	Total/NA	mg/L	8	1.0	22.7	☐	0 - 27.881	☑	0 - 20.04
480-198890-F-5	MW-9C-U	9251	Chloride	Total/NA	mg/L	8	1.0	3.7	☐	0.328 - 6.947	☐	1.6 - 6.48
480-198890-F-6	MW-29CU	9251	Chloride	Total/NA	mg/L	3	1.0	ND	☐	0 - 5.335	☑	1.947 - 2.92
480-198894-F-1	AMW-2C	9251	Chloride	Total/NA	mg/L	6	1.0	33.1	☑	20.471 - 31.462	☐	18.16 - 33.12
480-198894-G-2	IMW-A1	9251	Chloride	Total/NA	mg/L	5	1.0	89.5	☐	79.941 - 143.019	☐	74.72 - 151.2
480-198895-E-1	Cell A #12	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	24.0	1100	☐	1022.017 - 1145.483	☐	840 - 1344
480-198919-I-1	GMW-25	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	22.1	☐	0 - 913.193	☐	13.84 - 729.6
480-198954-D-1	MH01	9251	Chloride	Total/NA	mg/L	8	1.0	3.3	☐	0.288 - 6.112	☐	1.36 - 5.64
480-198977-J-1	MW-12BBB	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.564	☐	0 - 1.68
480-198977-J-2	MW-13A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	6.1	☐	5.089 - 11.186	☐	5.2 - 12.36
480-198977-J-3	MW-14A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	ND	☐	0 - 38.146	☑	0.88 - 26.88
480-198977-J-5	MW-15A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	7.7	☐	7.622 - 10.803	☐	6.64 - 12.12
480-198977-L-4	MW-14B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	55.1	☐	0 - 103.21	☐	0 - 72.72
480-198999-A-12	106B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	6.0	☑	6.768 - 9.407	☐	6 - 10.56
480-198999-E-1	101A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	36.0	☐	13.311 - 69.189	☐	23.84 - 74.76
480-198999-E-11	106A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	6.6	☑	0 - 1.564	☑	0 - 1.68
480-198999-E-14	107B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	1.2	☐	0 - 3.109	☐	0 - 3
480-198999-E-15	108A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.341	☐	0 - 1.44
480-198999-E-16	108B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	1.5	☑	1.555 - 3.52	☑	1.52 - 3.48
480-198999-E-17	109A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198999-E-18	109B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	22.5	☐	0 - 43.89	☐	0 - 29.52
480-198999-E-19	110	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	7.1	☐	0 - 17.608	☐	0 - 12.36
480-198999-E-20	111	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	19.3	☐	18.044 - 28.756	☐	17.2 - 32.4
480-198999-E-21	112	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	10.8	☑	10.982 - 14.543	☐	9.52 - 16.44
480-198999-E-23	114A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	ND	☑	1.126 - 2.949	☑	1.28 - 2.88
480-198999-E-29	117	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	ND	☑	1.313 - 2.687	☑	1.36 - 3
480-198999-E-30	118	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	1.4	☐	0.291 - 6.109	☑	1.52 - 5.4
480-198999-E-4	102B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	27.9	☑	20.917 - 25.008	☐	17.04 - 28.44
480-198999-E-5	103A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	1.9	☐	0 - 5.086	☐	0 - 4.68
480-198999-E-7	104A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	2.7	☑	0 - 1.341	☑	0 - 1.44
480-198999-E-8	104B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	1.2	☐	0.786 - 4.114	☑	1.52 - 4.2
480-198999-G-10	105B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	2.6	☑	3.032 - 4.793	☑	2.72 - 5.16
480-198999-G-2	101B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	34.7	☐	28.264 - 38.836	☐	23.84 - 43.2
480-198999-G-22	113	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	6.5	☑	7.885 - 10.715	☑	6.88 - 12

Laboratory
Kone 2

Date : 6/26/2022
Time : 17:09

Test : Chloride
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
ICB CL	-0.80	6/26/2022 10:36		
ICV CL	26.72	6/26/2022 10:36		
CCV CL	26.52	6/26/2022 10:52		
LCS CL	26.34	6/26/2022 10:52		
CCB CL	-0.73	6/26/2022 10:52		
MBLK CL	-0.88	6/26/2022 10:52		
CCVL CL	0.40	6/26/2022 10:52		
CCV CL	26.28	6/26/2022 10:53		
LCS CL	26.28	6/26/2022 10:53		
CCB CL	-0.88	6/26/2022 10:53		
MBLK CL	-0.73	6/26/2022 10:53		
CCV CL	26.91	6/26/2022 12:13		
LCS CL	27.03	6/26/2022 12:13		
CCB CL	-0.70	6/26/2022 12:13		
MBLK CL	-0.67	6/26/2022 12:13		
ms 240-168259-C-	27.29	6/26/2022 12:13		
du 240-168259-C-	5.47	6/26/2022 12:13		
240-168259-C-5	5.29	6/26/2022 12:13		
240-168259-A-4	9.58	6/26/2022 12:14		
CCV CL	27.03	6/26/2022 12:15		
LCS CL	26.85	6/26/2022 12:15		
CCB CL	-0.67	6/26/2022 12:15		
MBLK CL	-0.42	6/26/2022 12:15		
240-168259-A-9	97.09	6/26/2022 12:15		
CCV CL	27.33	6/26/2022 12:26		
LCS CL	26.41	6/26/2022 12:26		
CCB CL	-0.73	6/26/2022 12:26		
MBLK CL	-1.07	6/26/2022 12:26		
240-168259-A-3	188.21	6/26/2022 12:26	R	1+4.0
ms 620-4969-I-4	35.15	6/26/2022 12:32		
msd 620-4969-I-4	37.35	6/26/2022 12:32		
620-4969-I-4	16.20	6/26/2022 12:32		
620-4969-I-5	1.68	6/26/2022 12:32		
620-4969-G-6	12.26	6/26/2022 12:32		
620-4969-Q-7	48.95	6/26/2022 12:32		
620-4969-G-8	1.94	6/26/2022 12:32		
CCV CL	27.01	6/26/2022 12:32		
LCS CL	26.85	6/26/2022 12:32		
CCB CL	-0.31	6/26/2022 12:32		
MBLK CL	-0.66	6/26/2022 12:32		
620-5017-E-1	15.18	6/26/2022 12:33		
CCV CL	25.98	6/26/2022 12:33		
LCS CL	25.86	6/26/2022 12:33		
CCB CL	-2.19	6/26/2022 12:33		
MBLK CL	-2.20	6/26/2022 12:34		
620-5017-E-3	7.43	6/26/2022 12:34		
620-5017-d-2	0.87	6/26/2022 12:34		
620-5017-D-4	-1.08	6/26/2022 12:34		
ms 620-5017-D-5	23.82	6/26/2022 12:34		
msd 620-5017-D-5	23.96	6/26/2022 12:34		
620-5017-D-5	2.62	6/26/2022 12:34		
CCV CL	25.56	6/26/2022 12:36		
LCS CL	25.58	6/26/2022 12:36		

Laboratory
Kone 2

Date : 6/26/2022
Time : 17:09

Test : Chloride
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
CCB CL	-2.31	6/26/2022 12:36		
MBLK CL	-2.27	6/26/2022 12:36		
ms240-168259-A-1	490.20	6/26/2022 12:43	R	1+4.0
240-168259-A-7	141.41	6/26/2022 12:43	R	1+4.0
240-168259-A-10	192.98	6/26/2022 12:43	R	1+4.0
msd240-168259-A-	493.09	6/26/2022 12:45	R	1+4.0
240-168259-A-12	485.92	6/26/2022 12:45	R	1+4.0
CCV CL	26.38	6/26/2022 12:45		
LCS CL	26.52	6/26/2022 12:45		
CCB CL	-1.58	6/26/2022 12:45		
MBLK CL	-1.84	6/26/2022 12:45		
240-168259-A-13	450.61	6/26/2022 12:46	R	1+4.0
240-168259-A-14	437.80	6/26/2022 12:46	R	1+4.0
240-168259-A-17	376.87	6/26/2022 12:52	R	1+4.0
ms 240-168259-A-	473.50	6/26/2022 12:52	R	1+4.0
CCV CL	26.56	6/26/2022 12:52		
LCS CL	26.64	6/26/2022 12:52		
CCB CL	-1.52	6/26/2022 12:52		
MBLK CL	-1.72	6/26/2022 12:52		
msd 240-168259-A	473.14	6/26/2022 12:53	R	1+4.0
240-168259-A-18	467.02	6/26/2022 12:53	R	1+4.0
620-4969-I-1	489.11	6/26/2022 12:53	R	1+4.0
CCV CL	26.71	6/26/2022 12:54		
LCS CL	26.60	6/26/2022 12:54		
CCB CL	-1.57	6/26/2022 12:54		
MBLK CL	-1.65	6/26/2022 12:54		
CCV CL	26.83	6/26/2022 13:41		
LCS CL	26.94	6/26/2022 13:41		
CCB CL	-1.03	6/26/2022 13:41		
MBLK CL	-1.06	6/26/2022 13:41		
240-168259-A-15	23.76	6/26/2022 13:41	R	
620-4969-g3	90.15	6/26/2022 13:41	R	
240-168259-B-6	744.42	6/26/2022 13:44	R	1+21.0
240-168259-A-11	981.83	6/26/2022 13:44	R	1+26.0
CCV CL	26.52	6/26/2022 13:45		
LCS CL	26.55	6/26/2022 13:45		
CCB CL	-1.12	6/26/2022 13:45		
MBLK CL	-0.99	6/26/2022 13:46		
CCV CL	26.79	6/26/2022 14:04		
LCS CL	26.90	6/26/2022 14:04		
CCB CL	-1.09	6/26/2022 14:04		
MBLK CL	-1.29	6/26/2022 14:04		
480-198763-H-3	71.59	6/26/2022 14:10	R	
480-198763-H-4	75.04	6/26/2022 14:10	R	
480-198763-H-7	-1.00	6/26/2022 14:10	R	
480-198813-J-1	35.09	6/26/2022 14:10	R	
CCV CL	26.56	6/26/2022 14:10		
LCS CL	26.67	6/26/2022 14:10		
CCB CL	-1.16	6/26/2022 14:10		
MBLK CL	-1.52	6/26/2022 14:10		
ms 480-198813-J-	87.30	6/26/2022 14:11	R	
msd 480-198813-J	87.31	6/26/2022 14:11	R	
480-198813-J-3	75.30	6/26/2022 14:11	R	

Laboratory
Kone 2

Date : 6/26/2022
Time : 17:09

Test : Chloride
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
240-168273-H-4	1096.57	6/26/2022 14:13	R	1+27.0
ms 240-168259-B-	752.66	6/26/2022 14:13	R	1+21.0
CCV CL	26.80	6/26/2022 14:13		
LCS CL	26.93	6/26/2022 14:13		
CCB CL	-1.12	6/26/2022 14:13		
MBLK CL	-1.25	6/26/2022 14:13		
240-168259-A-16	996.44	6/26/2022 14:18	R	1+26.0
620-4969-I-2	896.67	6/26/2022 14:18	R	1+24.0
du 240-168259-B-	752.37	6/26/2022 14:18	R	1+21.0
CCV CL	27.01	6/26/2022 14:19		
LCS CL	27.04	6/26/2022 14:19		
CCB CL	-0.95	6/26/2022 14:19		
MBLK CL	-1.20	6/26/2022 14:19		
CCV CL	26.96	6/26/2022 14:21		
LCS CL	27.14	6/26/2022 14:21		
CCB CL	-0.90	6/26/2022 14:21		
MBLK CL	-0.93	6/26/2022 14:21		
CCV CL	26.98	6/26/2022 14:49		
LCS CL	27.10	6/26/2022 14:49		
CCB CL	-0.85	6/26/2022 14:49		
MBLK CL	-0.89	6/26/2022 14:49		
480-198813-J-2	19.32	6/26/2022 14:49	R	
480-198813-J-5	20.97	6/26/2022 14:49	R	
480-198813-J-6	10.56	6/26/2022 14:49	R	
480-198813-J-7	4.48	6/26/2022 14:49	R	
480-198813-J-8	78.77	6/26/2022 14:49	R	
480-198813-J-9	77.24	6/26/2022 14:49	R	
480-198813-J-10	19.36	6/26/2022 14:49	R	
480-198815-J-1	6.38	6/26/2022 14:49	R	
CCV CL	27.04	6/26/2022 14:50		
LCS CL	27.02	6/26/2022 14:50		
CCB CL	-0.81	6/26/2022 14:50		
MBLK CL	-0.81	6/26/2022 14:50		
480-198720-L-1	0.79	6/26/2022 14:50	R	
480-198763-H-2	1.98	6/26/2022 14:50	R	
ms 198813-j-4	24.99	6/26/2022 14:50	R	
msd 198813-j-4	24.98	6/26/2022 14:50	R	
480-198813-J-4	3.87	6/26/2022 14:50	R	
480-198815-J-2	7.17	6/26/2022 14:50	R	
CCV CL	26.76	6/26/2022 14:52		
LCS CL	26.87	6/26/2022 14:52		
CCB CL	-0.99	6/26/2022 14:52		
MBLK CL	-1.02	6/26/2022 14:52		
ms 480-198840-G-	62.09	6/26/2022 14:57		
msd 480-198840-G	61.27	6/26/2022 14:57		
480-198840-G-1	47.73	6/26/2022 14:57		
480-198840-G-2	-0.64	6/26/2022 14:57		
CCV CL	26.65	6/26/2022 14:57		
LCS CL	26.93	6/26/2022 14:57		
CCB CL	-0.77	6/26/2022 14:57		
MBLK CL	-0.95	6/26/2022 14:57		
480-198840-G-3	-0.03	6/26/2022 14:58		
480-198840-G-4	21.14	6/26/2022 14:58		

Laboratory
Kone 2

Date : 6/26/2022
Time : 17:09

Test : Chloride
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
CCV CL	26.89	6/26/2022 14:58		
LCS CL	27.10	6/26/2022 14:58		
CCB CL	-0.64	6/26/2022 14:58		
MBLK CL	-0.86	6/26/2022 14:58		
480-198840-G-5	4.73	6/26/2022 14:59		
480-198840-G-6	66.13	6/26/2022 14:59		
480-198840-G-7	65.11	6/26/2022 14:59		
480-198840-G-8	0.05	6/26/2022 14:59		
480-198840-G-9	1.38	6/26/2022 14:59		
ms480-198840-G-1	63.09	6/26/2022 14:59		
msd480-198840-G-	62.46	6/26/2022 15:00		
480-198840-G-10	47.12	6/26/2022 15:00		
CCV CL	25.53	6/26/2022 15:08		
LCS CL	25.49	6/26/2022 15:08		
CCB CL	-1.78	6/26/2022 15:08		
MBLK CL	-2.09	6/26/2022 15:08		
480-198843-E-5	42.94	6/26/2022 15:08		
480-198843-E-6	39.67	6/26/2022 15:08		
480-198887-E-1	1.09	6/26/2022 15:09		
480-198890-F-1	0.79	6/26/2022 15:09		
480-198890-F-2	9.34	6/26/2022 15:09		
ms 480-198890-F-	34.68	6/26/2022 15:09		
msd 480-198890-F	35.35	6/26/2022 15:09		
480-198890-F-3	15.21	6/26/2022 15:09		
CCV CL	26.11	6/26/2022 15:11		
LCS CL	25.90	6/26/2022 15:11		
CCB CL	-1.49	6/26/2022 15:11		
MBLK CL	-1.85	6/26/2022 15:11		
msd 480-198581-H	1145.18	6/26/2022 15:11	R	1+23.0
480-198581-H-1	1155.83	6/26/2022 15:11	R	1+23.0
ms 480-198581-H-	1153.09	6/26/2022 15:17	R	1+23.0
480-198626-G-2	1392.42	6/26/2022 15:17	R	1+23.0
ms 480-198831-C-	956.60	6/26/2022 15:17	R	1+25.0
msd 480-198831-C	965.18	6/26/2022 15:17	R	1+25.0
480-198831-C-2	973.73	6/26/2022 15:17	R	1+25.0
CCV CL	26.52	6/26/2022 15:36		
LCS CL	26.69	6/26/2022 15:36		
CCB CL	-1.24	6/26/2022 15:36		
MBLK CL	-1.34	6/26/2022 15:36		
ms480-198843-E-1	39.19	6/26/2022 15:36	R	
msd480-198843-E-	38.98	6/26/2022 15:36	R	
480-198843-E-1	18.95	6/26/2022 15:36	R	
480-198843-E-2	18.82	6/26/2022 15:36	R	
ms480-198890-F-4	24.08	6/26/2022 15:38		
msd480-198890-F-	23.62	6/26/2022 15:38		
480-198843-E-3	1.21	6/26/2022 15:38	R	
480-198843-E-4	71.31	6/26/2022 15:38	R	
CCV CL	26.63	6/26/2022 15:38		
LCS CL	26.58	6/26/2022 15:38		
CCB CL	-1.30	6/26/2022 15:38		
MBLK CL	-1.32	6/26/2022 15:38		
480-198890-F-4	22.75	6/26/2022 15:38		
480-198890-F-5	3.68	6/26/2022 15:38		

Laboratory
Kone 2

Date : 6/26/2022
Time : 17:09

Test : Chloride
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
480-198890-F-6	0.39	6/26/2022 15:38		
480-198894-F-1	33.09	6/26/2022 15:38		
480-198894-G-2	89.49	6/26/2022 15:40		
480-198919-I-1	22.10	6/26/2022 15:40		
480-198954-D-1	3.31	6/26/2022 15:40		
ms480-198863-J-1	44.89	6/26/2022 15:40		
msd480-198863-J-	44.06	6/26/2022 15:40		
480-198863-J-1	27.10	6/26/2022 15:40		
CCV CL	26.64	6/26/2022 15:45		
LCS CL	26.48	6/26/2022 15:45		
CCB CL	-1.27	6/26/2022 15:45		
MBLK CL	-1.50	6/26/2022 15:46		
480-198860-J-4	1.42	6/26/2022 15:46		
480-198860-J-3	0.51	6/26/2022 15:46		
480-198863-J-2	30.77	6/26/2022 15:47		
480-198866-J-1	14.30	6/26/2022 15:47		
480-198866-J-2	3.71	6/26/2022 15:47		
ms480-198866-J-3	39.51	6/26/2022 15:47		
CCV CL	26.34	6/26/2022 15:47		
LCS CL	26.44	6/26/2022 15:47		
CCB CL	-1.36	6/26/2022 15:47		
MBLK CL	-1.45	6/26/2022 15:47		
msd480-198866-J-	39.19	6/26/2022 15:47		
480-198866-J-3	21.04	6/26/2022 15:47		
240-168259-A-1	1068.15	6/26/2022 15:48	R	1+27.0
480-198860-J-2	85.44	6/26/2022 15:53		
480-198860-J-1	56.15	6/26/2022 15:53		
480-198895-E-1	1098.78	6/26/2022 15:54	R	1+23.0
480-198922-B-1	427.47	6/26/2022 15:54	R	1+4.0
ms 480-198975-A-	19.61	6/26/2022 15:56		
msd 480-198975-A	19.89	6/26/2022 15:56		
480-198975-A-6	-1.33	6/26/2022 15:56		
CCV CL	26.18	6/26/2022 16:04		
LCS CL	26.14	6/26/2022 16:04		
CCB CL	-1.60	6/26/2022 16:04		
MBLK CL	-1.49	6/26/2022 16:04		
480-198999-G-2	34.71	6/26/2022 16:04		
480-198999-G-3	5.18	6/26/2022 16:04		
CCV CL	26.29	6/26/2022 16:12		
LCS CL	26.20	6/26/2022 16:12		
CCB CL	-1.50	6/26/2022 16:12		
MBLK CL	-1.48	6/26/2022 16:12		
480-198975-A-7	-0.95	6/26/2022 16:13	R	
480-198975-A-8	-1.16	6/26/2022 16:13	R	
480-198977-J-1	-0.31	6/26/2022 16:13	R	
ms480-198860-J-6	25.47	6/26/2022 16:19	R	
msd480-198860-J-	23.36	6/26/2022 16:19	R	
480-198860-J-6	2.71	6/26/2022 16:19	R	
480-198977-J-2	6.06	6/26/2022 16:19	R	
480-198977-J-3	0.16	6/26/2022 16:19	R	
CCV CL	26.30	6/26/2022 16:19		
LCS CL	26.06	6/26/2022 16:19		
CCB CL	-1.30	6/26/2022 16:19		

Laboratory
Kone 2

Date : 6/26/2022
Time : 17:09

Test : Chloride
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
MBLK CL	-1.59	6/26/2022 16:19		
480-198977-L-4	55.08	6/26/2022 16:19	R	
480-198977-J-5	7.67	6/26/2022 16:19	R	
480-198999-E-1	36.01	6/26/2022 16:20	R	
480-198860-J-5	19.75	6/26/2022 16:20	R	
480-198977-J-6	8.01	6/26/2022 16:20	R	
CCV CL	26.35	6/26/2022 16:22		
LCS CL	26.16	6/26/2022 16:22		
CCB CL	-1.28	6/26/2022 16:22		
MBLK CL.	-1.40	6/26/2022 16:22		
480-198999-E-4	27.89	6/26/2022 16:28	R	
480-198999-E-5	1.93	6/26/2022 16:28	R	
480-198999-G-6	8.51	6/26/2022 16:28	R	
480-198999-E-7	2.69	6/26/2022 16:28	R	
480-198999-E-8	1.18	6/26/2022 16:28	R	
CCV CL	26.73	6/26/2022 16:28		
LCS CL	26.64	6/26/2022 16:28		
CCB CL	-1.20	6/26/2022 16:28		
MBLK CL	-1.32	6/26/2022 16:28		
ms480-198999-G-9	23.24	6/26/2022 16:28	R	
msd480-198999-G-	23.07	6/26/2022 16:28	R	
480-198999-G-9	1.59	6/26/2022 16:28	R	
ms480-198999-G-1	23.14	6/26/2022 16:30		
msd198999g-10	23.55	6/26/2022 16:30		
480-198999-G-10	2.62	6/26/2022 16:30		
480-198999-E-11	6.59	6/26/2022 16:30		
480-198999-A-12	5.98	6/26/2022 16:30		
CCV CL	25.90	6/26/2022 16:38		
LCS CL	25.63	6/26/2022 16:38		
CCB CL	-2.16	6/26/2022 16:38		
MBLK CL	-2.22	6/26/2022 16:38		
480-198999-E-21	10.83	6/26/2022 16:40		
480-198999-G-22	6.45	6/26/2022 16:40		
480-198999-E-23	0.30	6/26/2022 16:40		
480-198999-G-24	0.43	6/26/2022 16:40		
msd198999-e-20	38.84	6/26/2022 16:40		
480-198999-E-20	19.30	6/26/2022 16:40		
CCV CL	25.99	6/26/2022 16:40		
LCS CL	25.68	6/26/2022 16:40		
CCB CL	-1.87	6/26/2022 16:40		
MBLK CL	-2.19	6/26/2022 16:40		
480-198999-G-25	-1.08	6/26/2022 16:40		
480-198999-G-26	-0.25	6/26/2022 16:40		
480-198999-G-27	-1.03	6/26/2022 16:45		
480-198999-G-28	-0.40	6/26/2022 16:45		
480-198999-E-29	0.67	6/26/2022 16:45		
du198999-e-30	7.70	6/26/2022 16:45		
480-198999-E-30	1.42	6/26/2022 16:45		
ms480-199002-J-1	1091.92	6/26/2022 16:47	R	1+23.0
CCV CL	26.20	6/26/2022 16:47		
LCS CL	25.88	6/26/2022 16:47		
CCB CL	-1.62	6/26/2022 16:47		
MBLK CL	-1.47	6/26/2022 16:47		

Laboratory
Kone 2

Date : 6/26/2022
Time : 17:09

Test : Chloride
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
480-199002-J-1	1090.89	6/26/2022 16:47	R	1+23.0
ms480-199026-E-1	8122.83	6/26/2022 16:48	R	1+120.0
msd480-199026-E-	8150.29	6/26/2022 16:48	R	1+120.0
480-199026-E-1	8266.04	6/26/2022 16:48	R	1+120.0
msd480-199002-J-	1099.90	6/26/2022 16:48	R	1+23.0
CCV CL	26.35	6/26/2022 16:49		
LCS CL	26.23	6/26/2022 16:49		
CCB CL	-1.62	6/26/2022 16:49		
MBLK CL	-1.68	6/26/2022 16:49		
480-198999-H-13	-0.25	6/26/2022 16:55	R	
480-198999-E-14	1.16	6/26/2022 16:55	R	
480-198999-E-15	-0.19	6/26/2022 16:55	R	
480-198999-E-16	1.50	6/26/2022 16:55	R	
480-198999-E-17	0.06	6/26/2022 16:55	R	
480-198999-E-18	22.45	6/26/2022 16:55	R	
ms198999-e-19	29.82	6/26/2022 16:55	R	
ms198999-e-20	37.78	6/26/2022 16:55	R	
CCV CL	26.33	6/26/2022 16:55		
LCS CL	26.25	6/26/2022 16:55		
CCB CL	-1.57	6/26/2022 16:55		
MBLK CL	-1.84	6/26/2022 16:55		
msd198999-e-19	28.92	6/26/2022 16:55	R	
480-198999-E-19	7.09	6/26/2022 16:55	R	
CCV CL	26.48	6/26/2022 16:56		
LCS CL	26.37	6/26/2022 16:56		
CCB CL	-1.41	6/26/2022 16:56		
MBLK CL	-1.45	6/26/2022 16:56		

Laboratory
Kone 2

6/26/2022 17:15

Performed 6/26/2022 9:46
MAX acceptable SD 2.0 mA

Wavelength	Abs (mA)	SD (mA)	SignGain	RefGain	Voltage (V)
340 nm	-249.9	0.8	5	5	6.2
405 nm	-248.3	1.7	4	4	6.2
420 nm	-252.9	0.5	4	4	6.2
460 nm	-241.5	0.2	3	3	6.2
480 nm	-242.3	0.2	2	2	6.2
520 nm	-240.9	0.2	3	3	5.9
540 nm	205.6	0.2	1	2	6.2
575 nm	-244.1	0.2	1	1	5.7
600 nm	-239.9	0.1	1	1	6.2
630 nm	-239.0	0.1	1	1	6.0
660 nm	206.7	0.2	0	1	6.2
700 nm	-248.8	0.2	1	1	6.2
880 nm	--				

Laboratory
Kone 2

6/26/2022 17:17

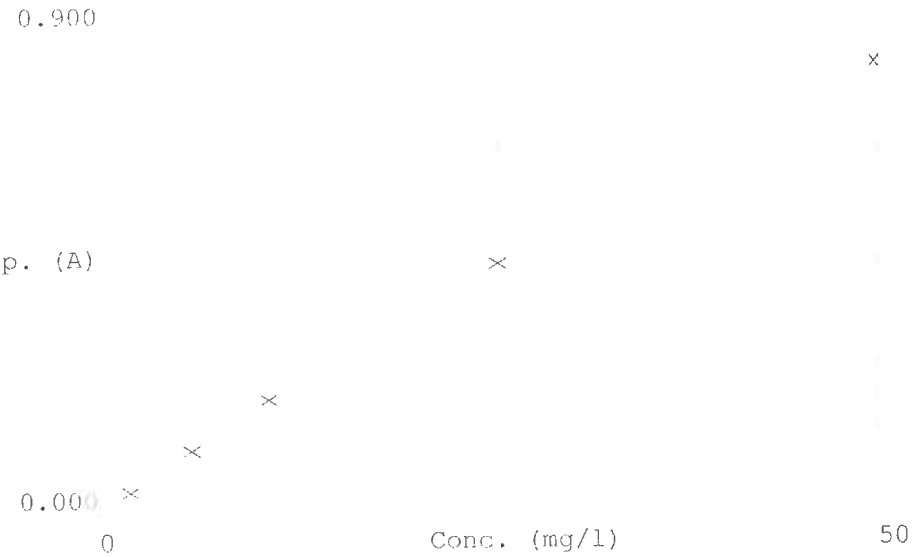
Test Chloride

Accepted 6/26/2022 10:38

Factor 62.36
Bias 0.016

Coeff. of det. 0.997715

Errors QC rule violated



	Calibrator	Response	Calc. con.	Conc.	Errors
1	Cl 50ppm	0.016	-0.014	1.000	
2	Cl 50ppm	0.093	4.824	5.000	
3	Cl 50ppm	0.187	10.637	10.000	
4	Cl 50ppm	0.437	26.285	25.000	
5	Cl 50ppm	0.806	49.268	50.000	
6	ICB CL(control)	0.003	-0.800	0.000	Test limit low
7	ICV CL(control)	0.444	26.716	25.000	

Calibrator	Information
Cl 50ppm	
ICB CL	
ICV CL	

Rev. 4
06/19/2015

TestAmerica Buffalo

BOD Documentation for BOD

Logbook # A16-03-06

BOD #: #1 JAS (BOD)

Batch #: 629154

Analyst: ESS

Date & Time run set up: 6/7/22 @ 18:52

Initial DO Air Calibration: 987.0 @ 20.7 8.97 → 8.71

Barometer ID: SN192706741

Date & Time of read: 6-12-22 @ 10:00

Final DO Air Calibration: 989.3 @ 23.3 8.50 → 8.31

Barometer ID:

pH check of samples (6.0-8.0): ✓ see bench sheet

Residual Chlorine check of samples: ✓

Temperature Check of samples

* (20+/- 3°C)

Measured Temperature= ✓

*Corrected Temperature=

(after Correction factor has been applied)

Temperature Check of Dilution Water

* (20+/- 3°C)

Measured Temperature= carboy AB @ 21.1°C

*Corrected Temperature=

(after Correction factor has been applied)

Solutions

BOD SEED: 6829297 CBOD SEED: N/A

GLUCOSE: 6604633 GLUTAMIC ACID: 6294365

H2SO4: 6911418 NaOH: 6306289

Sodium Sulfite: N/A

CARBOY NUTIENT BUFFER PILLOWS: 6824481

BOD BOTTLE NUTRIENT BUFFER PILLOWS:

Check, MS, MSD CONCENTRATION:

ACTUAL VALUE: 198 mg/L RANGE: 187.5 – 228.5 mg/L

:

Incubator # 2

GGA:

GLUCOSE: 0.1510g GLUTAMIC ACID: 0.1504g

Reviewed by: _____ Date: _____

1/100

MANTECH PC-BOD Final Report

Initials Operator:	CSS	**BOD Blank Average Depletion:**	1.11	
Finals Operator:	EG	**CBOD Blank Average Depletion:**	.00	
Run Number:	820	**BOD Seed Correction: (perml of seed)**	.24	
OrderNumber:	PC_BOD_20220607-3	**CBOD Seed Correction: (perml of seed)**	.00	
Start Time:	6:52PM			
Start Date:	6/7/2022	**Initial Cal Reading:**	.01	
Finish Time:	1:19PM	**Initial Pressure:**	.00	mmHg
Finish Date:	6/12/2022	**Final Cal Reading:**	.01	
		Final Pressure:	.00	mmHg

Flag Definitions

SR	Standard - Out of range
SAR	Standard average out of range
bSS	Blank supersaturated
bDe	Blank - Depletion
cD	Seed - Depletion
cF	Seed - Final DO
cR	Seed - Range
sD	
sF	Sample Limit - Depletion Sample Limit - Final DO
gF	
gD	Group Failure - Final DO
gT	Group Failure - Depletion Group Failure - Toxicity
In+	
In-	Incubation too long
iT	Incubation too short
fT	Intial temperature out of range Final temperature out of range

Rack #	Bottle #	Sample Name	Sample ID	Predilution Factor	Sample Volume	Seed Volume	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
1	1	RINSE		1.00	.00	.00	8.01	20.70	4.23	20.10	3.78	237.10	.00	h-
1	2	RINSE		1.00	.00	.00	8.22	20.70	7.16	20.20	1.06	< 237.10	.00	h- sD
1	3	RINSE		1.00	.00	.00	8.30	20.60	7.32	20.30	.98	< 237.10	.00	h- sD
1	4	RINSE		1.00	.00	.00	8.36	20.60	7.42	20.60	.94	< 237.10	237.10	h- sD
1	5	BLANK		1.00	.00	.00	8.33	20.60	7.22	20.80	1.11	.00	.00	h-bDe
1	6	SEED		1.00	.00	20.00	7.63	20.70	1.01	21.10	6.62	.00	.00	fIn-
1	7	SEED		1.00	.00	20.00	8.24	20.60	5.17	19.90	3.07	.00	.00	h-
1	8	SEED		1.00	.00	20.00	7.99	20.70	3.31	20.00	4.68	.00	.00	h-
1	9	CHECK		1.00	6.00	4.00	8.32	20.70	2.40	20.10	5.92	248.10	.00	h-
1	10	CHECK		1.00	6.00	4.00	8.40	20.60	2.55	20.20	5.85	244.60	.00	h-
1	11	CHECK		1.00	6.00	4.00	8.41	20.60	2.54	20.40	5.87	245.60	246.10	h-
1	12	198719-B1		1.00	300.00	4.00	8.30	21.70	7.03	20.60	1.27	< .31	.00	h- sD
1	13	198719-B1		1.00	200.00	4.00	7.06	21.60	5.76	19.80	1.30	< .51	.00	h- sD
1	14	198719-B1		1.00	100.00	4.00	7.86	21.10	6.52	19.80	1.34	< 1.15	< .31	h- sDgDgT

Rack #	Bottle#	Sample Name	Sample ID	Predilution Factor	Sample Volume	Seed Volume	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
1	15	198720-A1		1.00	300.00	4.00	8.38	21.60	6.45	19.90	1.93	< .97	.00	h- sD
1	16	198720-A1		1.00	200.00	4.00	8.05	21.60	6.18	20.00	1.87	< 1.37	.00	h- sD
1	17	198720-A1		1.00	100.00	4.00	8.30	21.20	6.71	20.10	1.59	< 1.90	< .97	h- sDgDgT
1	18	198720-A2		1.00	300.00	4.00	8.06	21.70	6.55	20.20	1.51	< .55	.00	h- sD
1	19	198720-A2		1.00	200.00	4.00	7.92	21.50	6.27	19.80	1.65	< 1.04	.00	h- sD
1	20	198720-A2		1.00	100.00	4.00	8.26	21.10	6.79	19.80	1.47	< 1.54	< .55	h- sDgDgT
1	21	198720-A3		1.00	300.00	4.00	7.32	21.80	6.09	19.70	1.23	< .27	.00	h- sD
1	22	198720-A3		1.00	200.00	4.00	7.49	21.60	5.94	19.80	1.55	< .89	.00	h- sD
1	23	198720-A3		1.00	100.00	4.00	8.05	21.10	6.64	19.90	1.41	< 1.36	< .27	h- sDgDgT
2	1	198720-A4		1.00	300.00	4.00	8.41	21.60	6.76	19.90	1.65	< .69	.00	h- sD
2	2	198720-A4		1.00	200.00	4.00	8.28	21.60	6.36	19.30	1.92	< 1.44	.00	h- sD
2	3	198720-A4		1.00	100.00	4.00	7.71	21.30	6.23	19.30	1.48	< 1.57	< .69	h- sDgDgT
2	4	198723-A1		1.00	300.00	4.00	8.29	22.20	6.92	19.20	1.37	< .41	.00	h- sD
2	5	198723-A1		1.00	200.00	4.00	7.98	21.90	6.52	19.10	1.46	< .75	.00	h- sD
2	6	198723-A1		1.00	100.00	4.00	8.25	21.40	6.74	19.20	1.51	< 1.66	< .41	h- sDgDgT
2	7	198727-A1		1.00	300.00	4.00	9.36	21.90	7.96	19.20	1.40	< .44	.00	h- sD
2	8	198727-A1		1.00	200.00	4.00	8.61	21.70	7.04	19.20	1.57	< .92	.00	h- sD
2	9	198727-A1		1.00	100.00	4.00	8.54	21.30	7.03	19.20	1.51	< 1.66	< .44	h- sDgDgT
2	10	198727-A2		1.00	300.00	4.00	7.21	21.90	6.11	19.10	1.10	< .14	.00	h- sD
2	11	198727-A2		1.00	200.00	4.00	7.46	21.60	6.07	19.00	1.39	< .65	.00	h- sD
2	12	198727-A2		1.00	100.00	4.00	8.01	21.30	6.48	18.90	1.53	< 1.72	< .14	fIh- sDgDgT
2	13	198727-A3		1.00	300.00	4.00	8.77	21.90	7.43	18.80	1.34	< .38	.00	fIh- sD
2	14	198727-A3		1.00	200.00	4.00	8.35	21.70	6.82	19.20	1.53	< .86	.00	h- sD
2	15	198727-A3		1.00	100.00	4.00	8.45	21.20	6.86	19.30	1.59	< 1.90	< .38	h- sDgDgT
2	16	198727-A4		1.00	300.00	4.00	7.85	21.80	6.57	19.30	1.28	< .32	.00	h- sD
2	17	198727-A4		1.00	200.00	4.00	7.94	21.70	6.48	19.10	1.46	< .75	.00	h- sD
2	18	198727-A4		1.00	100.00	4.00	7.79	21.30	6.32	19.10	1.47	< 1.54	< .32	h- sDgDgT

Rack #	Bottle#	Sample Name	Sample ID	Predilution Factor	Sample Volume	Seed Volume	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
2	19	198727-A5		1.00	300.00	4.00	8.06	21.70	6.67	19.10	1.39	< .43	.00	h- sD
2	20	198727-A5		1.00	200.00	4.00	8.35	21.60	6.70	19.40	1.65	< 1.04	.00	h- sD
2	21	198727-A5		1.00	100.00	4.00	7.81	21.30	6.27	19.50	1.54	< 1.75	< .43	h- sDgDgT
2	22	198727-A6		1.00	300.00	4.00	9.03	21.90	7.56	19.50	1.47	< .51	.00	h- sD
2	23	198727-A6		1.00	200.00	4.00	8.47	21.60	6.85	19.60	1.62	< .99	.00	h- sD
3	1	198727-A6		1.00	100.00	4.00	7.28	21.40	5.36	19.40	1.92	< 2.89	< .51	h- sDgDgT
3	2	198705-E1		1.00	300.00	4.00	8.30	21.00	5.79	19.30	2.51	1.55	.00	h-
3	3	198705-E1		1.00	200.00	4.00	8.48	21.00	6.29	19.10	2.19	1.85	.00	h-
3	4	198705-E1		1.00	100.00	4.00	7.80	21.10	5.81	19.20	1.99	< 3.10	.00	h- sD
3	5	198705-E1		1.00	50.00	4.00	8.15	21.00	6.42	19.30	1.73	< 4.63	.00	h- sD
3	6	198705-E1		1.00	25.00	4.00	8.35	20.90	6.56	19.40	1.79	< 9.98	1.70	h- sDgT
3	7	198738-A1		1.00	300.00	4.00	9.21	21.40	6.72	19.60	2.49	1.53	.00	h-
3	8	198738-A1		1.00	200.00	4.00	8.60	21.40	6.25	19.60	2.35	2.09	.00	h-
3	9	198738-A1		1.00	100.00	4.00	8.54	21.10	6.50	19.20	2.04	3.25	2.29	h- gT
3	10	198738-A1 DU		1.00	100.00	4.00	8.48	21.10	6.53	19.40	1.95	< 2.98	< 2.98 /3	h- sDgD 0.993
3	11	620-4883-B1		2.00	100.00	4.00	7.50	20.90	.20	19.60	7.30	> 38.05	.00	h- sF
3	12	620-4883-B1		2.00	50.00	4.00	8.11	20.90	.17	19.70	7.94	> 83.78	.00	h- sF
3	13	620-4883-B1		2.00	25.00	4.00	8.32	20.90	.16	19.80	8.16	> 172.85	.00	h- sF
3	14	620-4883-B1		2.00	10.00	4.00	8.44	20.80	2.34	19.90	6.10	308.52	.00	h- 68.308
3	15	620-4883-B1		2.00	5.00	4.00	8.46	20.80	4.18	19.70	4.28	398.64	.00	h-
3	16	620-4883-B1		2.00	3.00	4.00	8.46	20.80	4.89	19.70	3.57	522.40	409.85 /6	h- gT
3	17	620-4884-A1		10.00	10.00	4.00	8.34	20.80	.22	19.80	8.12	> 2,148.60	.00	h- sF
3	18	620-4884-A1		10.00	5.00	4.00	8.50	20.80	2.15	20.00	6.35	3,235.20	.00	h-
3	19	620-4884-A1		10.00	3.00	4.00	8.47	20.80	2.76	20.10	5.71	4,752.00	.00	h- 18.526
3	20	620-4884-A1		10.00	2.00	4.00	8.46	20.80	3.55	20.20	4.91	5,928.00	.00	h-
3	21	620-4884-A1		10.00	1.00	4.00	8.47	20.80	4.74	19.60	3.73	8,316.00	5,557.80 /300	h- gT
3	22	CHECK 69		1.00	6.00	4.00	8.42	20.80	2.68	19.70	5.74	239.10	.00	h-

Rack #	Bottle#	Sample Name	Sample ID	Predilution Factor	Sample Volume	Seed Volume	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
3	23	CHECK 69		1.00	6.00	4.00	8.47	20.80	2.77	19.80	5.70	237.10	238.10	h-

MANTECH PC-BOD Initial Report

Initial Operator: CSS **Start Date:** 6/7/2022 **Start Time:** 6:52 PM

Initial Cal Reading: .01 **Initial Pressure:** .00 mm-Hg

Order Number: PC_BOD_20220607-3 **Run Number:** 820

Rack #	Bottle #	Sample Name	Sample ID	Predilution	Sample Volume	Seed Volume	Initial DO	Initial Temp
1	1	RINSE		1.00	.00	.00	8.01	20.70
1	2	RINSE		1.00	.00	.00	8.22	20.70
1	3	RINSE		1.00	.00	.00	8.30	20.60
1	4	RINSE		1.00	.00	.00	8.36	20.60
1	5	BLANK		1.00	.00	.00	8.33	20.60
1	6	SEED		1.00	.00	20.00	7.63	20.70
1	7	SEED		1.00	.00	20.00	8.24	20.60
1	8	SEED		1.00	.00	20.00	7.99	20.70
1	9	CHECK		1.00	6.00	4.00	8.32	20.70
1	10	CHECK		1.00	6.00	4.00	8.40	20.60
1	11	CHECK		1.00	6.00	4.00	8.41	20.60
1	12	198719-B1		1.00	300.00	4.00	8.30	21.70
1	13	198719-B1		1.00	200.00	4.00	7.06	21.60
1	14	198719-B1		1.00	100.00	4.00	7.86	21.10
1	15	198720-A1		1.00	300.00	4.00	8.38	21.60
1	16	198720-A1		1.00	200.00	4.00	8.05	21.60
1	17	198720-A1		1.00	100.00	4.00	8.30	21.20
1	18	198720-A2		1.00	300.00	4.00	8.06	21.70
1	19	198720-A2		1.00	200.00	4.00	7.92	21.50
1	20	198720-A2		1.00	100.00	4.00	8.26	21.10
1	21	198720-A3		1.00	300.00	4.00	7.32	21.80
1	22	198720-A3		1.00	200.00	4.00	7.49	21.60
1	23	198720-A3		1.00	100.00	4.00	8.05	21.10
2	1	198720-A4		1.00	300.00	4.00	8.41	21.60
2	2	198720-A4		1.00	200.00	4.00	8.28	21.60
2	3	198720-A4		1.00	100.00	4.00	7.71	21.30
2	4	198723-A1		1.00	300.00	4.00	8.29	22.20
2	5	198723-A1		1.00	200.00	4.00	7.98	21.90
2	6	198723-A1		1.00	100.00	4.00	8.25	21.40
2	7	198727-A1		1.00	300.00	4.00	9.36	21.90
2	8	198727-A1		1.00	200.00	4.00	8.61	21.70
2	9	198727-A1		1.00	100.00	4.00	8.54	21.30
2	10	198727-A2		1.00	300.00	4.00	7.21	21.90

Order Number: PC_BOD_20220607-3 **Run Number:** 820

Rack #	Bottle #	Sample Name	Sample ID	Predilution	Sample Volume	Seed Volume	Initial DO	Initial Temp
2	11	198727-A2		1.00	200.00	4.00	7.46	21.60
2	12	198727-A2		1.00	100.00	4.00	8.01	21.30
2	13	198727-A3		1.00	300.00	4.00	8.77	21.90
2	14	198727-A3		1.00	200.00	4.00	8.35	21.70
2	15	198727-A3		1.00	100.00	4.00	8.45	21.20
2	16	198727-A4		1.00	300.00	4.00	7.85	21.80
2	17	198727-A4		1.00	200.00	4.00	7.94	21.70
2	18	198727-A4		1.00	100.00	4.00	7.79	21.30
2	19	198727-A5		1.00	300.00	4.00	8.06	21.70
2	20	198727-A5		1.00	200.00	4.00	8.35	21.60
2	21	198727-A5		1.00	100.00	4.00	7.81	21.30
2	22	198727-A6		1.00	300.00	4.00	9.03	21.90
2	23	198727-A6		1.00	200.00	4.00	8.47	21.60
3	1	198727-A6		1.00	100.00	4.00	7.28	21.40
3	2	198705-E1		1.00	300.00	4.00	8.30	21.00
3	3	198705-E1		1.00	200.00	4.00	8.48	21.00
3	4	198705-E1		1.00	100.00	4.00	7.80	21.10
3	5	198705-E1		1.00	50.00	4.00	8.15	21.00
3	6	198705-E1		1.00	25.00	4.00	8.35	20.90
3	7	198738-A1		1.00	300.00	4.00	9.21	21.40
3	8	198738-A1		1.00	200.00	4.00	8.60	21.40
3	9	198738-A1		1.00	100.00	4.00	8.54	21.10
3	10	198738-A1 DU		1.00	100.00	4.00	8.48	21.10
3	11	620-4883-B1		2.00	100.00	4.00	7.50	20.90
3	12	620-4883-B1		2.00	50.00	4.00	8.11	20.90
3	13	620-4883-B1		2.00	25.00	4.00	8.32	20.90
3	14	620-4883-B1		2.00	10.00	4.00	8.44	20.80
3	15	620-4883-B1		2.00	5.00	4.00	8.46	20.80
3	16	620-4883-B1		2.00	3.00	4.00	8.46	20.80
3	17	620-4884-A1		10.00	10.00	4.00	8.34	20.80
3	18	620-4884-A1		10.00	5.00	4.00	8.50	20.80
3	19	620-4884-A1		10.00	3.00	4.00	8.47	20.80
3	20	620-4884-A1		10.00	2.00	4.00	8.46	20.80
3	21	620-4884-A1		10.00	1.00	4.00	8.47	20.80
3	22	CHECK 69		1.00	6.00	4.00	8.42	20.80
3	23	CHECK 69		1.00	6.00	4.00	8.47	20.80

BOD BENCH SHEET

BATCH # 629154

ANALYST: CSS
DATE: 6/7/22

(18.52)

SAMPLE ID	SAMPLE TEMP	SAMPLE pH	DILUTION FACTOR	SAMPLE RANGE	BOTTLE NUMBERS	CHLORINE
198719-B1	22.0	7.34	1x	300-100	12-14	Ø
198720-A1	22.1	8.17/7.06	1x		15-17	Ø
-A2	22.1	7.98	1x		18-20	Ø
-A3	22.1	8.22/7.10	1x		21-23	Ø
-A4	22.3	7.96	1x		24-26	Ø
198723-A1	22.1	7.41	1x		27-29	Ø
198727-A1	22.3	8.81/7.02	1x		30-32	Ø
-A2	22.1	7.08	1x		33-35	Ø
-A3	22.1	7.56	1x		36-38	Ø
-A4	22.4	7.21	1x		39-41	Ø
-A5	22.4	7.40	1x		42-44	Ø
-A6	22.2	7.91	1x		45-47	Ø
198705-B1	22.5	6.89	1x	300-25	48-52	Ø
198738-A1	22.6	7.86	1x	300-100	53-55	Ø
-A1DU	22.6	7.86	1x	100	56	Ø
620-4883-B1	20.8	8.53/7.11	2x	100-3	57-62	Ø
620-4884-A1	20.9	6.52	10x	10,5,3,2,1	63-67	Ø

Attachment 10.5
BOD pH Meter Calibration Sheet

BOD pH METER CALIBRATION

pH BUFFER	pH	TEMPERATURE	BUFFER ID
1.68	1.68	21.2	5505791
4.01	4.01	21.2	6748813
7.0	7.01	21.2	6622931
10.0	10.05	21.3	6352443
13.0	13.00	21.3	5814903

Analyst: CSS

Date: 6/7/22

pH Meter ID: #1

pH Curve Slope: 98.1%

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Coversheet—Wet Chemistry Dept

Set: 6/9/22

Analysis: BOD

Method: 5210B

Analyst/Primary Reviewer: CSS

Secondary Reviewer: CC

Date of Analytical Run: _____

Date of Primary Review: _____

Date of Secondary Review: _____

Prep Batch Number	BOD	CBOD			
Analytical Batch Number	629517	629519			

Criteria for QC	1st Level	2nd Level	n/a	Notes/Comments
Does the calibration meet method requirements? Low point at or below RL, minimum number of calibration points met per SOP, r > or = 0.995, pH meter slope 90-110% (if applicable)				
Was Data Imported_____ Manually Entered_____ Balance Interface Used_____				
Were the ICV, CCV and LCS within acceptable limits for QC recovery?				
Were the ICB, CCB and MB all <RL?				
Was there a CCV/CCB combination run after every 10 samples or less?				
Was there an LCS run with every batch of 20 samples or less?				
Was there a DU, MS or MSD run with every batch of 20 samples or less?				
Were all MS/MSD results within acceptable limits for QC recovery?				
Were all DU or MSD RPDs within acceptable limits for QC recovery?				
Were the raw data points for samples within the working curve range, or if not were the samples diluted to bring them within this range?				
Are dilution factors all present and correct?				
Do all entries match raw data?				
Were there any holding time violations in this batch?	Y			**NOTE!** The PM and QA Manager must be notified by email *immediately* of any holding time violations!!
Are all errors crossed out with single line, initialed and dated?				
Were any NCMs needed in the batch?	Y			NCM #s: 593050
Data scanned in?				

TestAmerica Buffalo
BOD Documentation for BOD

Logbook # A16-03-06

BOD # #1 JAB (BOD/CBOD)

Batch # BOD: 629517 CBOD: 629519

Analyst CSS/CC / CC

Date & Time run set up 6/9/22 @ 17:24

Initial DO Air Calibration 988.0 @ 22.6 8.61 → 8.41

Barometer ID SN19270674

Date & Time of read 6/14/22 @ 12:48

Final DO Air Calibration 994.8 @ 23.3 8.50 → 8.36

Barometer ID SN19270674

pH check of samples (6.0-8.0) ✓ See bench sheet

Residual Chlorine check of samples ✓

Temperature Check of samples

* (20+/- 3°C)

Measured Temperature= ✓

*Corrected Temperature=

(after Correction factor has been applied)

Temperature Check of Dilution Water

* (20+/- 3°C)

carboy 3 @ 21.3°C

Measured Temperature=

*Corrected Temperature=

(after Correction factor has been applied)

Solutions

BOD SEED: 6829297 CBOD SEED: 6417076

GLUCOSE: 6646331 GLUTAMIC ACID: 6294365

H2SO4: 6911418 NaOH: 6306289

Sodium Sulfite: N/A

CARBOY NUTIENT BUFFER PILLOWS: 6824481

BOD BOTTLE NUTRIENT BUFFER PILLOWS:

Check, MS, MSD CONCENTRATION:

ACTUAL VALUE: 198 mg/L RANGE: 167.5 - 228.5 mg/L

:

Incubator # 3 GGA:

GLUCOSE: 0.1508g GLUTAMIC ACID: 0.1508g

Reviewed by:_____ Date:_____ 1/100

BOD BENCH SHEET

BOD - 629519

BATCH # CBOD 629519

ANALYST: CSS/CC
DATE: 6/9/22

SAMPLE ID	SAMPLE TEMP	SAMPLE pH	DILUTION FACTOR	SAMPLE RANGE	BOTTLE NUMBERS	CHLORINE
198581-A1	22.5	7.27	1x	100-3	18-23	Ø
198813-A1	22.0	7.96	1x	300-100	24-26	Ø
-A2	20.7	6.55	1x		27-29	Ø
-A3	19.9	6.71	1x		30-32	Ø
-A4	20.7	6.98	1x		33-35	Ø
-A5	21.9	7.64	1x		36-38	Ø
-A6	22.1	7.03	1x		39-41	Ø
-A6DUP	22.1	7.03	1x	100	42	Ø
-A7	21.4	~~8.25~~ 7.04	1x	300-100	43-45	Ø
-A8	20.7	6.59	1x		46-48	Ø
-A9	20.8	6.78	1x		49-51	Ø
-A10	21.5	6.70	1x		52-54	Ø
198815-A1	22.6	7.49	1x		55-57	Ø
-A2	21.9	7.85	1x		58-60	Ø
198826-A1	21.7	7.89	1x	100-3	61-66	Ø
-A2	20.8	6.90	1x	300-25	67-71	Ø
198827-A13	20.7	~~8.96~~ 7.10	10x	100-3	72-77	Ø
198830-A2	21.1	6.44	1x	300-3	78-85	Ø
-S3	19.9	~~7.30~~ 7.06	1x	300-25	86-90	Ø
198846-D1	22.7	7.72	1x	300-25	91-95	Ø

946.0 @ 22.6 $\xrightarrow{4.61}$ 4.41

BOD BENCH SHEET

BATCH # _____

ANALYST: CSS
DATE: 6/9/22

SAMPLE ID	SAMPLE TEMP	SAMPLE pH	DILUTION FACTOR	SAMPLE RANGE	BOTTLE NUMBERS	CHLORINE
198832-C1	20.1	~~5.65~~ 6.69	10x	100-3	96-101	Ø
-C3	21.2	~~5.92~~ 7.01	10x		102-107	Ø
-C2	19.0	7.25	10x		108-113	Ø
-C2DW	19.0	7.25	10x	100	114	Ø
198857-A1	20.6	7.68	1x	300-25	~~125-150~~ 125	Ø
198857-A1	20.1	6.72	10x	10,5,3,2,1	~~126-130~~ 126-130	Ø
198846-C1	22.0	7.48	1x	300-25	115-119	Ø
-C1DW	22.0	7.48	1x	50	120	Ø

CSS 6/9/22

Attachment 10.5
BOD pH Meter Calibration Sheet

BOD pH METER CALIBRATION

pH BUFFER	pH	TEMPERATURE	BUFFER ID
1.68	1.68	21.3	5505791
4.01	4.01	21.3	6748813
7.0	7.01	21.4	6622931
10.0	10.04	21.4	6352443
13.0	13.00	21.4	5814903

Analyst: CSS

Date: 6/9/22

pH Meter ID: #1

pH Curve Slope: 97.2%

MANTECH

PC-BOD Final Report

Initials Operator:	CSS/CC
Finals Operator:	CC/CSS
Run Number:	822
OrderNumber:	PC_BOD_20220609-1
Start Time:	5:24 PM
Start Date:	6/9/2022
Finish Time:	12:48 PM
Finish Date:	6/14/2022

BOD Blank Average Depletion:	.69	
CBOD Blank Average Depletion:	.00	
BOD Seed Correction: (perml of seed)	.30	
CBOD Seed Correction: (perml of seed)	.00	
Initial Cal Reading:	.01	
Initial Pressure:	.00	mmHg
Final Cal Reading:	.01	
Final Pressure:	.00	mmHg

Flag Definitions

SR	Standard - Out of range
SAR	Standard average out of range
bSS	Blank supersaturated
bDe	Blank - Depletion
cD	Seed - Depletion
cF	Seed - Final DO
cR	Seed - Range
sD	
sF	Sample Limit - Depletion Sample Limit - Final DO
gF	
gD	Group Failure - Final DO
gT	Group Failure - Depletion Group Failure - Toxicity
In+	
In-	Incubation too long
iT	Incubation too short
fT	Intial temperature out of range Final temperature out of range

Rack #	Bottle #	Sample Name	Sample ID	Predilution Factor	Sample Volume	Seed Volume	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
1	1	RINSE		1.00	.00	.00	6.87	21.50	5.25	19.80	1.62	< 3,078.00	.00	h- sD
1	2	RINSE		1.00	.00	.00	8.23	21.30	7.37	19.60	.86	< 3,078.00	.00	h- sD
1	3	RINSE		1.00	.00	.00	8.31	21.20	7.54	19.70	.77	< 3,078.00	.00	h- sD
1	4	RINSE		1.00	.00	.00	8.32	21.30	7.55	19.40	.77	< 3,078.00	< 3,078.00	h- sDgD
1	5	BLANK		1.00	.00	.00	8.26	21.20	7.57	19.10	.69	.00	.00	h-bDe
1	6	SEED		1.00	.00	20.00	8.04	21.20	.31	19.20	7.73	> .00	.00	h-cF
1	7	SEED		1.00	.00	20.00	8.19	21.20	2.01	19.60	6.18	.00	.00	h-
1	8	SEED		1.00	.00	20.00	8.20	21.30	2.24	19.40	5.96	.00	.00	h-
1	9	CHECK		1.00	6.00	4.00	8.29	21.30	3.05	19.20	5.24	201.30	.00	h-
1	10	CHECK		1.00	6.00	4.00	8.35	21.30	2.40	19.20	5.95	236.80	.00	h-
1	11	CHECK		1.00	6.00	4.00	8.38	21.30	4.15	19.40	4.23	150.80	196.30	h- gT
1	12	SEED CBOD		1.00	.00	20.00	8.09	21.40	.24	19.20	7.85	> 150.80	.00	h- sF
1	13	SEED CBOD		1.00	.00	20.00	8.20	21.40	.18	19.20	8.02	> 150.80	.00	h- sF
1	14	SEED CBOD		1.00	.00	20.00	8.21	21.40	.17	19.20	8.04	> 150.80	> 150.80	h- sFgF

Rack #	Bottle#	Sample Name	Sample ID	Predilution Factor	Sample Volume	Seed Volume	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
1	15	CHECK CBOD		1.00	6.00	4.00	8.26	21.30	2.86	19.60	5.40	270.00	.00	h-
1	16	CHECK CBOD		1.00	6.00	4.00	8.44	21.30	4.41	19.30	4.03	201.50	.00	h-
1	17	CHECK CBOD		1.00	6.00	4.00	8.38	21.40	2.45	19.10	5.93	296.50	256.00	h- gT
1	18	198581-A1		1.00	100.00	4.00	7.90	21.60	.22	19.10	7.68	> 19.40	.00	h- sF
1	19	198581-A1		1.00	50.00	4.00	8.20	21.50	.16	19.70	8.04	> 40.96	.00	h- sF
1	20	198581-A1		1.00	25.00	4.00	8.30	21.40	2.85	19.60	5.45	50.83	.00	h-
1	21	198581-A1		1.00	10.00	4.00	8.37	21.40	5.50	19.40	2.87	49.68	.00	h-
1	22	198581-A1		1.00	5.00	4.00	8.37	21.40	6.16	19.40	2.21	59.76	.00	h-
1	23	198581-A1		1.00	3.00	4.00	8.38	21.30	6.50	19.70	1.88	< 66.60	53.42	h- sDgT
2	1	198813-A1		1.00	300.00	4.00	7.13	21.50	5.81	18.50	1.32	< .11	.00	fIh- sD
2	2	198813-A1		1.00	200.00	4.00	7.30	21.80	5.65	18.90	1.65	< .65	.00	fIh- sD
2	3	198813-A1		1.00	100.00	4.00	8.00	21.60	6.38	19.00	1.62	< 1.22	< .11	h- sDgDgT
2	4	198813-A2		1.00	300.00	4.00	7.63	21.30	4.95	18.80	2.68	1.47	.00	fIh-
2	5	198813-A2		1.00	200.00	4.00	7.75	21.50	5.62	18.50	2.13	1.37	.00	fIh-
2	6	198813-A2		1.00	100.00	4.00	8.14	21.50	6.34	18.30	1.80	< 1.76	1.42	fIh- sD
2	7	198813-A3		1.00	300.00	4.00	7.74	21.00	5.21	18.40	2.53	1.32	.00	fIh-
2	8	198813-A3		1.00	200.00	4.00	7.83	21.40	5.39	18.90	2.44	1.84	.00	fIh-
2	9	198813-A3		1.00	100.00	4.00	8.15	21.50	6.25	18.80	1.90	< 2.06	1.58	fIh- sDgT
2	10	198813-A4		1.00	300.00	4.00	8.15	21.20	5.84	18.70	2.31	1.10	.00	fIh-
2	11	198813-A4		1.00	200.00	4.00	8.00	21.30	5.94	18.80	2.06	1.27	.00	fIh-
2	12	198813-A4		1.00	100.00	4.00	7.66	21.50	5.99	18.50	1.67	< 1.37	1.18	fIh- sD
2	13	198813-A5		1.00	300.00	4.00	8.15	21.40	4.98	18.20	3.17	1.96	.00	fIh-
2	14	198813-A5		1.00	200.00	4.00	8.05	21.60	5.58	18.80	2.47	1.88	.00	fIh-
2	15	198813-A5		1.00	100.00	4.00	8.26	21.50	6.07	19.00	2.19	2.93	2.26	h- gT
2	16	198813-A6		1.00	300.00	4.00	8.14	21.50	6.13	18.90	2.01	.80	.00	fIh-
2	17	198813-A6		1.00	200.00	4.00	8.09	21.70	6.38	18.70	1.71	< .74	.00	fIh- sD
2	18	198813-A6		1.00	100.00	4.00	8.28	21.60	6.54	18.50	1.74	< 1.58	.80	fIh- sDgT

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Rack #	Bottle#	Sample Name	Sample ID	Predilution Factor	Sample Volume	Seed Volume	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
2	19	198813-A6 DU		1.00	100.00	4.00	8.26	21.50	6.61	18.60	1.65	< 1.31	< 1.31	fTh- sDgD
2	20	198813-A7		1.00	300.00	4.00	7.97	21.50	6.05	19.20	1.92	< .71	.00	h- sD
2	21	198813-A7		1.00	200.00	4.00	7.98	21.70	6.08	19.20	1.90	< 1.03	.00	h- sD
2	22	198813-A7		1.00	100.00	4.00	8.21	21.60	6.55	19.10	1.66	< 1.34	< .71	h- sDgDgT
2	23	198813-A8		1.00	300.00	4.00	7.97	21.20	2.63	19.20	5.34	4.13	.00	h-
3	1	198813-A8		1.00	200.00	4.00	8.09	21.40	4.20	17.90	3.89	4.01	.00	fTh-
3	2	198813-A8		1.00	100.00	4.00	7.73	21.50	4.53	17.50	3.20	5.96	4.70	fTh- gT
3	3	198813-A9		1.00	300.00	4.00	7.06	21.40	4.80	18.40	2.26	1.05	.00	fTh-
3	4	198813-A9		1.00	200.00	4.00	7.66	21.60	4.52	18.30	3.14	2.89	.00	fTh-
3	5	198813-A9		1.00	100.00	4.00	8.04	21.50	6.06	18.20	1.98	< 2.30	1.97	fTh- sDgT
3	6	198813-A10		1.00	300.00	4.00	7.22	21.30	5.25	18.10	1.97	< .76	.00	fTh- sD
3	7	198813-A10		1.00	200.00	4.00	7.51	21.50	5.57	18.00	1.94	< 1.09	.00	fTh- sD
3	8	198813-A10		1.00	100.00	4.00	7.99	21.50	6.37	17.70	1.62	< 1.22	< .76	fTh- sDgDgT
3	9	198815-A1		1.00	300.00	4.00	9.40	21.60	7.33	18.40	2.07	.86	.00	fTh-
3	10	198815-A1		1.00	200.00	4.00	8.78	21.70	6.79	18.40	1.99	< 1.16	.00	fTh- sD
3	11	198815-A1		1.00	100.00	4.00	8.57	21.50	6.89	18.50	1.68	< 1.40	.86	fTh- sDgT
3	12	198815-A2		1.00	300.00	4.00	8.08	21.50	6.46	18.30	1.62	< .41	.00	fTh- sD
3	13	198815-A2		1.00	200.00	4.00	8.03	21.60	6.40	18.10	1.63	< .62	.00	fTh- sD
3	14	198815-A2		1.00	100.00	4.00	8.22	21.50	6.74	18.00	1.48	< .80	< .41	fTh- sDgDgT
3	15	198826-A1		1.00	100.00	4.00	7.51	21.30	.22	18.60	7.29	> 18.23	.00	fTh- sF
3	16	198826-A1		1.00	50.00	4.00	7.19	21.40	.14	18.40	7.05	> 35.02	.00	fTh- sF
3	17	198826-A1		1.00	25.00	4.00	7.84	21.40	.14	18.30	7.70	> 77.83	.00	fTh- sF
3	18	198826-A1		1.00	10.00	4.00	8.27	21.40	.20	18.20	8.07	> 205.68	.00	fTh- sF
3	19	198826-A1		1.00	5.00	4.00	8.35	21.40	2.76	18.50	5.59	262.56	.00	fTh-
3	20	198826-A1		1.00	3.00	4.00	8.36	21.40	3.98	18.30	4.38	316.60	289.58	fTh- gT
3	21	198826-A2		1.00	300.00	4.00	9.30	21.20	7.83	18.50	1.47	< .26	.00	fTh- sD
3	22	198826-A2		1.00	200.00	4.00	8.75	21.50	7.41	18.60	1.34	< .19	.00	fTh- sD

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Rack #	Bottle#	Sample Name	Sample ID	Predilution Factor	Sample Volume	Seed Volume	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
3	23	198826-A2		1.00	100.00	4.00	8.57	21.40	6.85	18.80	1.72	< 1.52	.00	fTn- sD
4	1	198826-A2		1.00	50.00	4.00	7.69	21.70	6.23	18.20	1.46	< 1.48	.00	fTn- sD
4	2	198826-A2		1.00	25.00	4.00	8.32	21.50	6.68	18.00	1.64	< 5.11	< .26	fTn- sDgDgT
4	3	198827-A13		10.00	100.00	4.00	7.63	21.20	.30	18.20	7.33	> 183.48	.00	fTn- sF
4	4	198827-A13		10.00	50.00	4.00	7.77	21.50	.18	18.30	7.59	> 382.56	.00	fTn- sF
4	5	198827-A13		10.00	25.00	4.00	8.05	21.50	2.34	18.10	5.71	539.52	.00	fTn-
4	6	198827-A13		10.00	10.00	4.00	8.30	21.40	5.47	18.00	2.83	484.80	.00	fTn-
4	7	198827-A13		10.00	5.00	4.00	8.33	21.40	6.16	18.10	2.17	573.60	.00	fTn-
4	8	198827-A13		10.00	3.00	4.00	8.40	21.40	6.91	18.00	1.49	< 276.00	532.64	fTn- sDgT
4	9	198830-A2		1.00	300.00	4.00	6.84	21.30	.29	17.80	6.55	> 5.34	.00	fTn- sF
4	10	198830-A2		1.00	200.00	4.00	7.53	21.50	.19	18.20	7.34	> 9.19	.00	fTn- sF
4	11	198830-A2		1.00	100.00	4.00	7.24	21.50	.26	18.40	6.98	> 17.30	.00	fTn- sF
4	12	198830-A2		1.00	50.00	4.00	7.86	21.50	3.50	18.20	4.36	18.88	.00	fTn-
4	13	198830-A2		1.00	25.00	4.00	8.18	21.50	5.19	18.00	2.99	21.31	.00	fTn-
4	14	198830-A2		1.00	10.00	4.00	8.32	21.40	6.37	18.00	1.95	< 22.08	.00	fTn- sD
4	15	198830-A2		1.00	5.00	4.00	8.34	21.40	6.63	18.10	1.71	< 29.76	.00	fTn- sD
4	16	198830-A2		1.00	3.00	4.00	8.35	21.50	6.75	18.40	1.60	< 38.60	20.09	fTn- sDgT
4	17	198380-G3		1.00	300.00	4.00	9.91	21.20	8.20	18.20	1.71	< .50	.00	fTn- sD
4	18	198380-G3		1.00	200.00	4.00	9.03	21.30	7.36	18.10	1.67	< .68	.00	fTn- sD
4	19	198380-G3		1.00	100.00	4.00	8.74	21.50	7.27	18.40	1.47	< .77	.00	fTn- sD
4	20	198380-G3		1.00	50.00	4.00	8.47	21.50	7.04	18.30	1.43	< 1.30	.00	fTn- sD
4	21	198380-G3		1.00	25.00	4.00	8.37	21.50	6.98	18.10	1.39	< 2.11	< .50	fTn- sDgDgT
4	22	198846-D1		1.00	300.00	4.00	7.82	21.30	5.85	18.60	1.97	< .76	.00	fTn- sD
4	23	198846-D1		1.00	200.00	4.00	7.90	21.50	6.11	18.90	1.79	< .86	.00	fTn- sD
5	1	198846-D1		1.00	100.00	4.00	7.18	21.70	5.60	18.20	1.58	< 1.10	.00	fTn- sD
5	2	198846-D1		1.00	50.00	4.00	8.19	21.50	6.54	18.00	1.65	< 2.62	.00	fTn- sD
5	3	198846-D1		1.00	25.00	4.00	8.28	21.30	6.81	18.10	1.47	< 3.07	< .76	fTn- sDgDgT

Rack #	Bottle#	Sample Name	Sample ID	Predilution Factor	Sample Volume	Seed Volume	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
5	4	198832-C1		10.00	100.00	4.00	7.06	21.30	.34	17.90	6.72	> 165.18	.00	fTn- sF
5	5	198832-C1		10.00	50.00	4.00	7.93	21.10	.20	18.20	7.73	> 390.96	.00	fTn- sF
5	6	198832-C1		10.00	25.00	4.00	8.20	21.00	.18	18.10	8.02	> 816.72	.00	fTn- sF
5	7	198832-C1		10.00	10.00	4.00	8.39	20.90	4.94	18.20	3.45	670.80	.00	fTn-
5	8	198832-C1		10.00	5.00	4.00	8.36	21.00	5.13	18.00	3.23	1,209.60	.00	fTn-
5	9	198832-C1		10.00	3.00	4.00	8.36	21.00	5.83	17.80	2.53	1,316.00	1,065.47	fTn- gT
5	10	198832-C3		10.00	100.00	4.00	7.95	21.10	.30	17.70	7.65	> 193.08	.00	fTn- sF
5	11	198832-C3		10.00	50.00	4.00	8.24	20.90	.19	18.30	8.05	> 410.16	.00	fTn- sF
5	12	198832-C3		10.00	25.00	4.00	8.32	21.00	.35	18.20	7.97	> 810.72	.00	fTn- sF
5	13	198832-C3		10.00	10.00	4.00	8.36	21.00	3.42	18.00	4.94	1,117.80	.00	fTn-
5	14	198832-C3		10.00	5.00	4.00	8.36	21.00	5.32	17.90	3.04	1,095.60	.00	fTn-
5	15	198832-C3		10.00	3.00	4.00	8.41	20.90	6.55	18.10	1.86	< 646.00	1,106.70	fTn- sDgT
5	16	198832-C2		10.00	100.00	4.00	7.81	21.20	.27	18.00	7.54	> 189.78	.00	fTn- sF
5	17	198832-C2		10.00	50.00	4.00	8.34	21.00	.54	18.20	7.80	> 395.16	.00	fTn- sF
5	18	198832-C2		10.00	25.00	4.00	8.42	20.90	3.80	18.20	4.62	408.72	.00	fTn-
5	19	198832-C2		10.00	10.00	4.00	8.44	20.80	5.61	18.40	2.83	484.80	.00	fTn-
5	20	198832-C2		10.00	5.00	4.00	8.43	20.90	6.47	18.50	1.96	< 447.60	.00	fTn- sD
5	21	198832-C2		10.00	3.00	4.00	8.38	21.00	6.19	18.30	2.19	976.00	623.17	fTn- gT
5	22	198832-C2 DU		10.00	100.00	4.00	8.15	20.90	.30	18.20	7.85	> 199.08	> 199.08	fTn- sFgF
5	23	198846-C1 CBOD		1.00	300.00	.00	7.29	21.00	4.69	18.90	2.60	2.60	.00	fTn-
6	1	198846-C1 CBOD		1.00	200.00	4.00	7.32	21.20	4.26	18.10	3.06	4.59	.00	fTn-
6	2	198846-C1 CBOD		1.00	100.00	4.00	8.00	21.10	5.15	18.00	2.85	8.55	.00	fTn-
6	3	198846-C1 CBOD		1.00	50.00	4.00	8.22	21.00	5.44	18.00	2.78	16.68	.00	fTn-
6	4	198846-C1 CBOD		1.00	25.00	4.00	8.32	21.00	5.65	17.90	2.67	32.04	12.89	fTn- gT
6	5	198846-C1 CBOD DU		1.00	50.00	4.00	8.18	21.00	5.60	17.70	2.58	15.48	15.48	fTn-
6	6	198857-A1		1.00	300.00	4.00	8.32	20.60	5.14	17.70	3.18	1.97	.00	fTn-
6	7	198857-A1		1.00	200.00	4.00	8.23	20.90	5.46	17.80	2.77	2.33	.00	fTn-

1065.47 / 300 = 3.55

1106.70 / 300 = 3.69

623.17 / 120 = 5.19

Rack #	Bottle #	Sample Name	Sample ID	Predilution Factor	Sample Volume	Seed Volume	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
6	8	198857-A1		1.00	100.00	4.00	8.34	21.00	6.23	17.70	2.11	2.69	.00	fIh-
6	9	198857-A1		1.00	50.00	4.00	8.36	21.00	6.52	17.50	1.84	< 3.76	.00	fIh- sD
6	10	198857-A1		1.00	25.00	4.00	8.37	21.00	6.73	17.40	1.64	< 5.11	2.33	fIh- sDgT
6	11	620-4970-A1		10.00	10.00	4.00	8.30	21.00	.63	17.60	7.67	> 1,936.80	.00	fIh- sF
6	12	620-4970-A1		10.00	5.00	4.00	8.38	21.00	3.47	17.80	4.91	2,217.60	.00	fIh-
6	13	620-4970-A1		10.00	3.00	4.00	8.39	21.00	4.86	17.70	3.53	2,316.00	.00	fIh-
6	14	620-4970-A1		10.00	2.00	4.00	8.39	21.00	5.68	17.70	2.71	2,244.00	.00	fIh-
6	15	620-4970-A1		10.00	1.00	4.00	8.38	21.00	6.14	17.80	2.24	3,078.00	2,463.90	fIh- gT

$2463.90 / 60 = 41.1$

MANTECH PC-BOD Initial Report

Initial Operator: CSS/CC **Start Date:** 6/9/2022 **Start Time:** 5:24 PM

Initial Cal Reading: .01 **Initial Pressure:** .00 mmHg

Order Number: PC_BOD_20220609-1 **Run Number:** 822

Rack #	Bottle #	Sample Name	Sample ID	Predilution	Sample Volume	Seed Volume	Initial DO	Initial Temp
1	1	RINSE		1.00	.00	.00	6.87	21.50
1	2	RINSE		1.00	.00	.00	8.23	21.30
1	3	RINSE		1.00	.00	.00	8.31	21.20
1	4	RINSE		1.00	.00	.00	8.32	21.30
1	5	BLANK		1.00	.00	.00	8.26	21.20
1	6	SEED		1.00	.00	20.00	8.04	21.20
1	7	SEED		1.00	.00	20.00	8.19	21.20
1	8	SEED		1.00	.00	20.00	8.20	21.30
1	9	CHECK		1.00	6.00	4.00	8.29	21.30
1	10	CHECK		1.00	6.00	4.00	8.35	21.30
1	11	CHECK		1.00	6.00	4.00	8.38	21.30
1	12	SEED CBOD		1.00	.00	20.00	8.09	21.40
1	13	SEED CBOD		1.00	.00	20.00	8.20	21.40
1	14	SEED CBOD		1.00	.00	20.00	8.21	21.40
1	15	CHECK CBOD		1.00	6.00	4.00	8.26	21.30
1	16	CHECK CBOD		1.00	6.00	4.00	8.44	21.30
1	17	CHECK CBOD		1.00	6.00	4.00	8.38	21.40
1	18	198581-A1		1.00	100.00	4.00	7.90	21.60
1	19	198581-A1		1.00	50.00	4.00	8.20	21.50
1	20	198581-A1		1.00	25.00	4.00	8.30	21.40
1	21	198581-A1		1.00	10.00	4.00	8.37	21.40
1	22	198581-A1		1.00	5.00	4.00	8.37	21.40
1	23	198581-A1		1.00	3.00	4.00	8.38	21.30
2	1	198813-A1		1.00	300.00	4.00	7.13	21.50
2	2	198813-A1		1.00	200.00	4.00	7.30	21.80
2	3	198813-A1		1.00	100.00	4.00	8.00	21.60
2	4	198813-A2		1.00	300.00	4.00	7.63	21.30
2	5	198813-A2		1.00	200.00	4.00	7.75	21.50
2	6	198813-A2		1.00	100.00	4.00	8.14	21.50
2	7	198813-A3		1.00	300.00	4.00	7.74	21.00
2	8	198813-A3		1.00	200.00	4.00	7.83	21.40
2	9	198813-A3		1.00	100.00	4.00	8.15	21.50
2	10	198813-A4		1.00	300.00	4.00	8.15	21.20

Order Number: PC_BOD_20220609-1 **Run Number:** 822

Rack #	Bottle #	Sample Name	Sample ID	Predilution	Sample Volume	Seed Volume	Initial DO	Initial Temp
2	11	198813-A4		1.00	200.00	4.00	8.00	21.30
2	12	198813-A4		1.00	100.00	4.00	7.66	21.50
2	13	198813-A5		1.00	300.00	4.00	8.15	21.40
2	14	198813-A5		1.00	200.00	4.00	8.05	21.60
2	15	198813-A5		1.00	100.00	4.00	8.26	21.50
2	16	198813-A6		1.00	300.00	4.00	8.14	21.50
2	17	198813-A6		1.00	200.00	4.00	8.09	21.70
2	18	198813-A6		1.00	100.00	4.00	8.28	21.60
2	19	198813-A6 DU		1.00	100.00	4.00	8.26	21.50
2	20	198813-A7		1.00	300.00	4.00	7.97	21.50
2	21	198813-A7		1.00	200.00	4.00	7.98	21.70
2	22	198813-A7		1.00	100.00	4.00	8.21	21.60
2	23	198813-A8		1.00	300.00	4.00	7.97	21.20
3	1	198813-A8		1.00	200.00	4.00	8.09	21.40
3	2	198813-A8		1.00	100.00	4.00	7.73	21.50
3	3	198813-A9		1.00	300.00	4.00	7.06	21.40
3	4	198813-A9		1.00	200.00	4.00	7.66	21.60
3	5	198813-A9		1.00	100.00	4.00	8.04	21.50
3	6	198813-A10		1.00	300.00	4.00	7.22	21.30
3	7	198813-A10		1.00	200.00	4.00	7.51	21.50
3	8	198813-A10		1.00	100.00	4.00	7.99	21.50
3	9	198815-A1		1.00	300.00	4.00	9.40	21.60
3	10	198815-A1		1.00	200.00	4.00	8.78	21.70
3	11	198815-A1		1.00	100.00	4.00	8.57	21.50
3	12	198815-A2		1.00	300.00	4.00	8.08	21.50
3	13	198815-A2		1.00	200.00	4.00	8.03	21.60
3	14	198815-A2		1.00	100.00	4.00	8.22	21.50
3	15	198826-A1		1.00	100.00	4.00	7.51	21.30
3	16	198826-A1		1.00	50.00	4.00	7.19	21.40
3	17	198826-A1		1.00	25.00	4.00	7.84	21.40
3	18	198826-A1		1.00	10.00	4.00	8.27	21.40
3	19	198826-A1		1.00	5.00	4.00	8.35	21.40
3	20	198826-A1		1.00	3.00	4.00	8.36	21.40
3	21	198826-A2		1.00	300.00	4.00	9.30	21.20
3	22	198826-A2		1.00	200.00	4.00	8.75	21.50
3	23	198826-A2		1.00	100.00	4.00	8.57	21.40
4	1	198826-A2		1.00	50.00	4.00	7.69	21.70
4	2	198826-A2		1.00	25.00	4.00	8.32	21.50
4	3	198827-A13		10.00	100.00	4.00	7.63	21.20

Order Number: PC_BOD_20220609-1 **Run Number:** 822

Rack #	Bottle #	Sample Name	Sample ID	Predilution	Sample Volume	Seed Volume	Initial DO	Initial Temp
4	4	198827-A13		10.00	50.00	4.00	7.77	21.50
4	5	198827-A13		10.00	25.00	4.00	8.05	21.50
4	6	198827-A13		10.00	10.00	4.00	8.30	21.40
4	7	198827-A13		10.00	5.00	4.00	8.33	21.40
4	8	198827-A13		10.00	3.00	4.00	8.40	21.40
4	9	198830-A2		1.00	300.00	4.00	6.84	21.30
4	10	198830-A2		1.00	200.00	4.00	7.53	21.50
4	11	198830-A2		1.00	100.00	4.00	7.24	21.50
4	12	198830-A2		1.00	50.00	4.00	7.86	21.50
4	13	198830-A2		1.00	25.00	4.00	8.18	21.50
4	14	198830-A2		1.00	10.00	4.00	8.32	21.40
4	15	198830-A2		1.00	5.00	4.00	8.34	21.40
4	16	198830-A2		1.00	3.00	4.00	8.35	21.50
4	17	198380-G3		1.00	300.00	4.00	9.91	21.20
4	18	198380-G3		1.00	200.00	4.00	9.03	21.30
4	19	198380-G3		1.00	100.00	4.00	8.74	21.50
4	20	198380-G3		1.00	50.00	4.00	8.47	21.50
4	21	198380-G3		1.00	25.00	4.00	8.37	21.50
4	22	198846-D1		1.00	300.00	4.00	7.82	21.30
4	23	198846-D1		1.00	200.00	4.00	7.90	21.50
5	1	198846-D1		1.00	100.00	4.00	7.18	21.70
5	2	198846-D1		1.00	50.00	4.00	8.19	21.50
5	3	198846-D1		1.00	25.00	4.00	8.28	21.30
5	4	198832-C1		10.00	100.00	4.00	7.06	21.30
5	5	198832-C1		10.00	50.00	4.00	7.93	21.10
5	6	198832-C1		10.00	25.00	4.00	8.20	21.00
5	7	198832-C1		10.00	10.00	4.00	8.39	20.90
5	8	198832-C1		10.00	5.00	4.00	8.36	21.00
5	9	198832-C1		10.00	3.00	4.00	8.36	21.00
5	10	198832-C3		10.00	100.00	4.00	7.95	21.10
5	11	198832-C3		10.00	50.00	4.00	8.24	20.90
5	12	198832-C3		10.00	25.00	4.00	8.32	21.00
5	13	198832-C3		10.00	10.00	4.00	8.36	21.00
5	14	198832-C3		10.00	5.00	4.00	8.36	21.00
5	15	198832-C3		10.00	3.00	4.00	8.41	20.90
5	16	198832-C2		10.00	100.00	4.00	7.81	21.20
5	17	198832-C2		10.00	50.00	4.00	8.34	21.00
5	18	198832-C2		10.00	25.00	4.00	8.42	20.90
5	19	198832-C2		10.00	10.00	4.00	8.44	20.80

Order Number: PC_BOD_20220609-1 **Run Number:** 822

Rack #	Bottle #	Sample Name	Sample ID	Predilution	Sample Volume	Seed Volume	Initial DO	Initial Temp
5	20	198832-C2		10.00	5.00	4.00	8.43	20.90
5	21	198832-C2		10.00	3.00	4.00	8.38	21.00
5	22	198832-C2 DU		10.00	100.00	4.00	8.15	20.90
5	23	198846-C1 CBOD		1.00	300.00	.00	7.29	21.00
6	1	198846-C1 CBOD		1.00	200.00	4.00	7.32	21.20
6	2	198846-C1 CBOD		1.00	100.00	4.00	8.00	21.10
6	3	198846-C1 CBOD		1.00	50.00	4.00	8.22	21.00
6	4	198846-C1 CBOD		1.00	25.00	4.00	8.32	21.00
6	5	198846-C1 CBOD DU		1.00	50.00	4.00	8.18	21.00
6	6	198857-A1		1.00	300.00	4.00	8.32	20.60
6	7	198857-A1		1.00	200.00	4.00	8.23	20.90
6	8	198857-A1		1.00	100.00	4.00	8.34	21.00
6	9	198857-A1		1.00	50.00	4.00	8.36	21.00
6	10	198857-A1		1.00	25.00	4.00	8.37	21.00
6	11	620-4970-A1		10.00	10.00	4.00	8.30	21.00
6	12	620-4970-A1		10.00	5.00	4.00	8.38	21.00
6	13	620-4970-A1		10.00	3.00	4.00	8.39	21.00
6	14	620-4970-A1		10.00	2.00	4.00	8.39	21.00
6	15	620-4970-A1		10.00	1.00	4.00	8.38	21.00

TOC Wheel Worksheet

BATCH # 630302
Instrument # TOC1
SRF # 59072

Method 5310
File Name 20220615 A

	Sample ID	Dil	pH	Comment
1	Rinse			
2	~~CCV~~ ICV			
3	~~CCB~~ ICB			
4	MB			
5	LCS			
6	480-198813-B-1 MC			
7	Q-1			
8	P-2 MS			
9	P-2 MSD			} split
10	Q-2			
11	P-3			
12	P-4			
13	P-5			
14	CCV			
15	CCB			
16	P-6			
17	P-7			
18	P-8			
19	P-9			
20	P-10			
21	198815-O-1			
22	O-2			
23	198831-I-2			
24	198581-N-1	5X		8mL→40mL
25	198843-I-1			
26	CCV			
27	CCB			
28	MB			
29	LCS			
30	MB 480-629854/1-A			
31	LCS 2-A			
32	198787-A-9-AMS			
33	A-9-B MSD			
34	A-9-C			
35	A-14-A			
36	198843-I-2			
37	I-3			
38	CCV			
39	CCB			
40	I-4			
41	I-5			
42	I-6			
43	198851-B-1	4X		10mL →40mL
44	B-2			
45	198852-B-1	20X		2mL → 40mL
46	198860-O-1			

	Sample ID	Dil	pH	Comment
47	O-2			
48	O-3			
49	O-4			
50	CCV			
51	CCB			
52	MB			
53	LCS			
54	O-5 MS			>split
55	O-5 MSD			
56	P-5			
57	O-6			
58	198863-P-1			
59	P-2			
60	198866-P-1			
61	P-2			
62	CCV			
63	CCB			
64	P-3			
65	198910-D-1			
66	198911-G-1			
67	G-2			
68	G-3			
69	G-4			
70	G-5			
71	G-6			
72	G-7			
73	198919-M-1			
74	CCV			
75	CCB			
76	MB			
77	LCS			
78	180-139071-I-1 MS			>split
79	I-1 MSD			
80	J-1			
81	I-2			
82	I-3			
83	620-4945-H-1			
84	I-2			
85				
86	CCV			
87	CCB			

Date 06/15/2022

Analyst KER

TIC 6967173

MS 6955681

CCV 7031473

LCS 7031474

All pH <2 KER

pipette (1,000uL) M43072G

acid 7003480

sodium persulfate 6987151

phosphoric acid 6967027

BF-WC-TOCWW-016 Rev.1 8/7/2019

OI Corporation TOC Reporter
Instrument ID: A547730578 Wet - Chemistry

User ID:toc Name:Total Organic Carbon
Title:Mr Dept:OIC-TOC

Calibration - Quick View -TOC

Revision: 1-20220613Acal - Jun 13, 2022; 05-20-01 PM
Modified By: toc
Date Created: 2022/06/13; 05:20 PM
Last Modified: 2022/06/13; 05:20 PM
Last Calibrated: 2022/06/13; 08:00 PM

RF(ugC/k-cnt): 0.3765
R2: 0.9991
Reagent Blank(cts): 2,441
Offset Area(cts): 6,673
Offset Mass(ugC): -2.51

Std #	Conc (PPM)	Volume (mL)	# Reps	Area	Std. Dev	%RSD	Date Analysed
RW	0.000	2.000	2	2,580	58	2.25	2022-06-13; 06:17PM
1	1.000	2.000	2	9,452	162	1.71	2022-06-13; 06:33PM
2	2.000	2.000	2	15,177	156	1.03	2022-06-13; 06:50PM
3	5.000	2.000	2	33,076	58	0.17	2022-06-13; 07:06PM
4	10.000	2.000	2	63,490	136	0.21	2022-06-13; 07:21PM
5	50.000	2.000	2	283,228	1,204	0.43	2022-06-13; 07:37PM
6	100.000	2.000	2	532,030	6,867	1.29	2022-06-13; 07:54PM

In batch: 630302

STDS: 6955681

Sodium Persulfate: 6987148

Phosphoric: 6967027

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
2	Rinse	6/15/2022 10:58:12AM	1	3821	0.000	0.000
		6/15/2022 11:03:30AM	2	3606	0.000	0.000
			Avg	3714	0.000	0.000
			Std. Dev	152		
			%RSD	4.09		
3	ICV	6/15/2022 11:13:28AM	1	338367	124.898	62.449
		6/15/2022 11:19:40AM	2	335291	123.740	61.870
			Avg	336829	124.320	62.159
			Std. Dev	2175		
			%RSD	0.65		
4	ICB	6/15/2022 11:29:10AM	1	3637	0.000	0.000
		6/15/2022 11:35:09AM	2	3570	0.000	0.000
			Avg	3603	0.000	0.000
			Std. Dev	48		
			%RSD	1.32		
5	MB	6/15/2022 11:45:05AM	1	3263	0.000	0.000
		6/15/2022 11:51:01AM	2	3192	0.000	0.000
			Avg	3227	0.000	0.000
			Std. Dev	50		
			%RSD	1.54		
6	LCS	6/15/2022 12:01:16PM	1	344803	127.322	63.661
		6/15/2022 12:07:21PM	2	359161	132.728	66.364
			Avg	351982	130.020	65.013
			Std. Dev	10152		
			%RSD	2.88		
7	480-198813-P-1 inf	6/15/2022 12:17:24PM	1	7962	0.485	0.243
		6/15/2022 12:23:14PM	2	7399	0.273	0.137
			Avg	7680	0.380	0.190
			Std. Dev	398		
			%RSD	5.18		
8	480-198813-Q-1	6/15/2022 12:32:54PM	1	5557	0.000	0.000
		6/15/2022 12:39:17PM	2	5191	0.000	0.000
			Avg	5374	0.000	0.000
			Std. Dev	259		
			%RSD	4.82		
9	480-198813-P-2 MS	6/15/2022 12:48:40PM	1	183323	66.517	33.258
		6/15/2022 12:54:49PM	2	180524	65.463	32.731
			Avg	181923	65.990	32.994
			Std. Dev	1979		
			%RSD	1.09		
10	480-198813-P-2 MSD	6/15/2022 1:04:34PM	1	177201	64.212	32.106
		6/15/2022 1:10:42PM	2	178957	64.873	32.437

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	178079	64.540	32.272
			Std. Dev	1242		
			%RSD	0.70		
11	480-198813-Q-2	6/15/2022 1:20:38PM	1	43885	14.012	7.006
		6/15/2022 1:26:41PM	2	43980	14.048	7.024
			Avg	43933	14.030	7.015
			Std. Dev	67		
			%RSD	0.15		
12	0-198813-P-3	6/15/2022 1:36:50PM	1	31299	9.273	4.636
		6/15/2022 1:42:57PM	2	31729	9.435	4.717
			Avg	31514	9.350	4.676
			Std. Dev	304		
			%RSD	0.96		
13	480-198813-P-4	6/15/2022 1:53:03PM	1	15146	3.190	1.595
		6/15/2022 1:59:02PM	2	15023	3.144	1.572
			Avg	15085	3.170	1.583
			Std. Dev	87		
			%RSD	0.57		
14	480-198813-P-5	6/15/2022 2:08:47PM	1	22898	6.109	3.055
		6/15/2022 2:14:44PM	2	23131	6.197	3.099
			Avg	23014	6.150	3.077
			Std. Dev	165		
			%RSD	0.72		
15	CCV	6/15/2022 2:24:33PM	1	335740	123.909	61.954
		6/15/2022 2:30:47PM	2	338693	125.021	62.510
			Avg	337217	124.460	62.232
			Std. Dev	2088		
			%RSD	0.62		
16	CCB	6/15/2022 2:40:24PM	1	4019	0.000	0.000
		6/15/2022 2:46:13PM	2	3535	0.000	0.000
			Avg	3777	0.000	0.000
			Std. Dev	342		
			%RSD	9.06		
17	480-198813-P-6	6/15/2022 2:56:07PM	1	15004	3.137	1.569
		6/15/2022 3:02:46PM	2	15856	3.458	1.729
			Avg	15430	3.300	1.649
			Std. Dev	602		
			%RSD	3.90		
18	480-198813-P-7	6/15/2022 3:12:30PM	1	8386	0.645	0.323
		6/15/2022 3:18:35PM	2	8501	0.688	0.344
			Avg	8444	0.670	0.334
			Std. Dev	81		
			%RSD	0.96		

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
19	480-198813-P-8	6/15/2022 3:28:36PM	1	34338	10.417	5.209
		6/15/2022 3:34:45PM	2	32915	9.881	4.941
			Avg	33627	10.150	5.075
			Std. Dev	1006		
			%RSD	2.99		
20	480-198813-P-9	6/15/2022 3:44:19PM	1	43917	14.024	7.012
		6/15/2022 3:50:24PM	2	44124	14.102	7.050
			Avg	44020	14.060	7.031
			Std. Dev	146		
			%RSD	0.33		
21	480-198813-P-10	6/15/2022 4:00:35PM	1	44927	14.404	7.202
		6/15/2022 4:06:42PM	2	44132	14.105	7.053
			Avg	44529	14.250	7.128
			Std. Dev	562		
			%RSD	1.26		
22	480-198815-O-1	6/15/2022 4:16:23PM	1	13127	2.430	1.215
		6/15/2022 4:22:19PM	2	13107	2.423	1.211
			Avg	13117	2.430	1.213
			Std. Dev	14		
			%RSD	0.11		
23	480-198815-O-2	6/15/2022 4:32:20PM	1	6993	0.120	0.060
		6/15/2022 4:38:36PM	2	6511	0.000	0.000
			Avg	6752	0.060	0.030
			Std. Dev	341		
			%RSD	5.04		
24	480-198831-I-2	6/15/2022 4:48:28PM	1	115526	40.988	20.494
		6/15/2022 4:54:28PM	2	116654	41.413	20.706
			Avg	116090	41.200	20.600
			Std. Dev	797		
			%RSD	0.69		
25	480-198581-N-1^5	6/15/2022 5:04:41PM	1	239244	87.574	43.787
		6/15/2022 5:10:42PM	2	244074	89.392	44.696
			Avg	241659	88.480	44.241
			Std. Dev	3415		
			%RSD	1.41		
26	480-198843-I-1	6/15/2022 5:20:49PM	1	18781	4.559	2.280
		6/15/2022 5:26:48PM	2	18128	4.313	2.157
			Avg	18455	4.440	2.218
			Std. Dev	462		
			%RSD	2.50		
27	CCV	6/15/2022 5:36:16PM	1	331388	122.270	61.135
		6/15/2022 5:42:29PM	2	335803	123.933	61.966

Instrument ID: A547730578 Wet-Chemistry

User ID:toc Name: Total Organic Carbon

Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	333596	123.100	61.551
			Std. Dev	3122		
			%RSD	0.94		
28	CCB	6/15/2022 5:51:49PM	1	3809	0.000	0.000
		6/15/2022 5:58:01PM	2	3586	0.000	0.000
			Avg	3697	0.000	0.000
			Std. Dev	157		
			%RSD	4.26		
29	MB	6/15/2022 6:07:52PM	1	3481	0.000	0.000
		6/15/2022 6:14:09PM	2	3094	0.000	0.000
			Avg	3288	0.000	0.000
			Std. Dev	274		
			%RSD	8.33		
30	LCS	6/15/2022 6:24:17PM	1	339429	125.298	62.648
		6/15/2022 6:30:25PM	2	343384	126.787	63.394
			Avg	341407	126.040	63.021
			Std. Dev	2797		
			%RSD	0.82		
31	480-7031497	6/15/2022 6:40:11PM	1	8788	0.796	0.398
		6/15/2022 6:46:44PM	2	8682	0.757	0.378
			Avg	8735	0.780	0.388
			Std. Dev	75		
			%RSD	0.85		
32	480-7031498	6/15/2022 6:56:08PM	1	350113	129.321	64.661
		6/15/2022 7:02:18PM	2	354472	130.962	65.481
			Avg	352293	130.140	65.071
			Std. Dev	3082		
			%RSD	0.87		
33	480-7031499	6/15/2022 7:12:47PM	1	146663	52.713	26.356
		6/15/2022 7:18:58PM	2	155594	56.076	28.038
			Avg	151128	54.390	27.197
			Std. Dev	6315		
			%RSD	4.18		
34	480-7031500	6/15/2022 7:28:49PM	1	171412	62.032	31.016
		6/15/2022 7:35:02PM	2	175887	63.717	31.858
			Avg	173650	62.870	31.437
			Std. Dev	3164		
			%RSD	1.82		
35	480-7031501	6/15/2022 7:44:35PM	1	39523	12.369	6.185
		6/15/2022 7:51:14PM	2	41523	13.123	6.561
			Avg	40523	12.750	6.373
			Std. Dev	1415		
			%RSD	3.49		

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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
36	480-7031502	6/15/2022 8:00:55PM	1	53304	17.559	8.779
		6/15/2022 8:07:07PM	2	54911	18.164	9.082
			Avg	54107	17.860	8.930
			Std. Dev	1136		
			%RSD	2.10		
37	480-198843-I-2	6/15/2022 8:16:55PM	1	17739	4.167	2.083
		6/15/2022 8:23:05PM	2	17893	4.225	2.113
			Avg	17816	4.200	2.098
			Std. Dev	109		
			%RSD	0.61		
38	480-198843-I-3	6/15/2022 8:32:58PM	1	8369	0.639	0.319
		6/15/2022 8:38:33PM	2	7644	0.365	0.183
			Avg	8006	0.500	0.251
			Std. Dev	513		
			%RSD	6.41		
39	CCV	6/15/2022 8:48:27PM	1	335518	123.825	61.913
		6/15/2022 8:54:36PM	2	338370	124.899	62.450
			Avg	336944	124.360	62.181
			Std. Dev	2017		
			%RSD	0.60		
40	CCB	6/15/2022 9:04:06PM	1	4154	0.000	0.000
		6/15/2022 9:10:24PM	2	3816	0.000	0.000
			Avg	3985	0.000	0.000
			Std. Dev	239		
			%RSD	6.00		
41	480-198843-I-4	6/15/2022 9:20:51PM	1	16892	3.848	1.923
		6/15/2022 9:27:13PM	2	16929	3.862	1.931
			Avg	16910	3.850	1.927
			Std. Dev	26		
			%RSD	0.15		
42	480-198843-I-5	6/15/2022 9:36:57PM	1	25456	7.073	3.536
		6/15/2022 9:43:16PM	2	25580	7.119	3.560
			Avg	25518	7.100	3.548
			Std. Dev	87		
			%RSD	0.34		
43	480-198843-I-6	6/15/2022 9:53:04PM	1	16457	3.684	1.842
		6/15/2022 9:58:43PM	2	16379	3.655	1.827
			Avg	16418	3.670	1.834
			Std. Dev	55		
			%RSD	0.33		
44	480-198851-B-1^4	6/15/2022 10:08:51PM	1	194451	70.707	35.354
		6/15/2022 10:15:03PM	2	201873	73.502	36.751

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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	198162	72.100	36.053
			Std. Dev	5248		
			%RSD	2.65		
45	480-198851-B-2	6/15/2022 10:24:55PM	1	356520	131.734	65.867
		6/15/2022 10:31:05PM	2	376488	139.252	69.626
			Avg	366504	135.490	67.746
			Std. Dev	14119		
			%RSD	3.85		
46	480-198852-B-1^20	6/15/2022 10:40:34PM	1	200596	73.021	36.511
		6/15/2022 10:46:36PM	2	199397	72.569	36.285
			Avg	199997	72.800	36.398
			Std. Dev	848		
			%RSD	0.42		
47	480-198860-O-1	6/15/2022 10:56:42PM	1	61434	20.620	10.310
		6/15/2022 11:02:38PM	2	59351	19.836	9.918
			Avg	60392	20.230	10.114
			Std. Dev	1473		
			%RSD	2.44		
48	480-198860-O-2	6/15/2022 11:12:33PM	1	90320	31.497	15.749
		6/15/2022 11:18:29PM	2	86138	29.922	14.961
			Avg	88229	30.710	15.355
			Std. Dev	2957		
			%RSD	3.35		
49	480-198860-O-3	6/15/2022 11:28:29PM	1	26958	7.638	3.819
		6/15/2022 11:34:46PM	2	25457	7.073	3.537
			Avg	26207	7.360	3.678
			Std. Dev	1061		
			%RSD	4.05		
50	480-198860-O-4	6/15/2022 11:44:48PM	1	14338	2.886	1.443
		6/15/2022 11:50:56PM	2	13440	2.548	1.274
			Avg	13889	2.720	1.358
			Std. Dev	635		
			%RSD	4.57		
51	CCV	6/16/2022 12:00:43AM	1	334742	123.533	61.767
		6/16/2022 12:06:49AM	2	342605	126.494	63.247
			Avg	338673	125.010	62.507
			Std. Dev	5560		
			%RSD	1.64		
52	CCB	6/16/2022 12:16:33AM	1	3953	0.000	0.000
		6/16/2022 12:22:40AM	2	3630	0.000	0.000
			Avg	3792	0.000	0.000
			Std. Dev	228		
			%RSD	6.02		

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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
53	MB	6/16/2022 12:32:38AM	1	3551	0.000	0.000
		6/16/2022 12:38:50AM	2	2964	0.000	0.000
			Avg	3257	0.000	0.000
			Std. Dev	415		
			%RSD	12.74		
54	LCS	6/16/2022 12:48:50AM	1	345080	127.426	63.713
		6/16/2022 12:55:04AM	2	348745	128.806	64.403
			Avg	346912	128.120	64.058
			Std. Dev	2592		
			%RSD	0.75		
55	480-198860-O-5 MS	6/16/2022 1:04:51AM	1	159697	57.621	28.810
		6/16/2022 1:11:05AM	2	161535	58.313	29.156
			Avg	160616	57.970	28.983
			Std. Dev	1300		
			%RSD	0.81		
56	480-198860-O-5 MSD	6/16/2022 1:20:47AM	1	159996	57.733	28.867
		6/16/2022 1:26:54AM	2	161519	58.306	29.153
			Avg	160757	58.020	29.010
			Std. Dev	1077		
			%RSD	0.67		
57	480-198860-P-5	6/16/2022 1:37:05AM	1	15778	3.429	1.714
		6/16/2022 1:43:18AM	2	15671	3.388	1.694
			Avg	15725	3.410	1.704
			Std. Dev	76		
			%RSD	0.48		
58	480-198860-O-6	6/16/2022 1:53:08AM	1	14623	2.994	1.497
		6/16/2022 1:59:27AM	2	14068	2.785	1.392
			Avg	14346	2.890	1.444
			Std. Dev	393		
			%RSD	2.74		
59	480-198863-P-1	6/16/2022 2:09:24AM	1	17673	4.142	2.071
		6/16/2022 2:15:37AM	2	17990	4.261	2.131
			Avg	17831	4.200	2.101
			Std. Dev	224		
			%RSD	1.26		
60	480-198863-P-2	6/16/2022 2:25:29AM	1	17178	3.955	1.978
		6/16/2022 2:31:46AM	2	17136	3.940	1.970
			Avg	17157	3.950	1.974
			Std. Dev	29		
			%RSD	0.17		
61	480-198866-P-1	6/16/2022 2:41:38AM	1	37964	11.782	5.891
		6/16/2022 2:48:13AM	2	40715	12.818	6.409

User ID:toc Name: Total Organic Carbon
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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	39339	12.300	6.150
			Std. Dev	1945		
			%RSD	4.95		
62	480-198866-P-2	6/16/2022 2:58:00AM	1	40771	12.839	6.420
		6/16/2022 3:04:16AM	2	41173	12.991	6.495
			Avg	40972	12.920	6.458
			Std. Dev	284		
			%RSD	0.69		
63	CCV	6/16/2022 3:13:36AM	1	332182	122.569	61.285
		6/16/2022 3:19:45AM	2	337296	124.495	62.247
			Avg	334739	123.530	61.766
			Std. Dev	3616		
			%RSD	1.08		
64	CCB	6/16/2022 3:29:29AM	1	3820	0.000	0.000
		6/16/2022 3:35:29AM	2	3540	0.000	0.000
			Avg	3680	0.000	0.000
			Std. Dev	198		
			%RSD	5.38		
65	480-198866-P-3	6/16/2022 3:45:59AM	1	43761	13.965	6.983
		6/16/2022 3:52:20AM	2	45241	14.522	7.261
			Avg	44501	14.240	7.122
			Std. Dev	1046		
			%RSD	2.35		
66	480-198910-D-1	6/16/2022 4:01:51AM	1	117481	41.724	20.862
		6/16/2022 4:08:10AM	2	120030	42.684	21.342
			Avg	118756	42.200	21.102
			Std. Dev	1802		
			%RSD	1.52		
67	480-198911-G-1	6/16/2022 4:18:38AM	1	19931	4.992	2.496
		6/16/2022 4:24:49AM	2	19987	5.013	2.507
			Avg	19959	5.000	2.502
			Std. Dev	40		
			%RSD	0.20		
68	480-198911-G-2	6/16/2022 4:34:28AM	1	18777	4.558	2.279
		6/16/2022 4:40:54AM	2	19189	4.713	2.356
			Avg	18983	4.640	2.318
			Std. Dev	291		
			%RSD	1.53		
69	480-198911-G-3	6/16/2022 4:50:43AM	1	14915	3.103	1.552
		6/16/2022 4:56:56AM	2	15541	3.339	1.670
			Avg	15228	3.220	1.611
			Std. Dev	442		
			%RSD	2.91		

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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
70	480-198911-G-4	6/16/2022 5:06:17AM	1	20885	5.351	2.676
		6/16/2022 5:13:03AM	2	21241	5.486	2.743
			Avg	21063	5.420	2.709
			Std. Dev	252		
			%RSD	1.20		
71	480-198911-G-5	6/16/2022 5:22:31AM	1	23728	6.422	3.211
		6/16/2022 5:29:00AM	2	25291	7.011	3.505
			Avg	24509	6.720	3.358
			Std. Dev	1105		
			%RSD	4.51		
72	480-198911-G-6	6/16/2022 5:38:40AM	1	14817	3.067	1.533
		6/16/2022 5:45:05AM	2	15155	3.194	1.596
			Avg	14986	3.130	1.564
			Std. Dev	239		
			%RSD	1.59		
73	480-198911-G-7	6/16/2022 5:54:54AM	1	16702	3.776	1.888
		6/16/2022 6:01:21AM	2	16911	3.855	1.928
			Avg	16807	3.820	1.908
			Std. Dev	148		
			%RSD	0.88		
74	480-198919-M-1	6/16/2022 6:10:22AM	1	6207	0.000	0.000
		6/16/2022 6:16:41AM	2	6441	0.000	0.000
			Avg	6324	0.000	0.000
			Std. Dev	165		
			%RSD	2.61		
75	CCV	6/16/2022 6:26:44AM	1	331509	122.316	61.158
		6/16/2022 6:32:52AM	2	340197	125.587	62.794
			Avg	335853	123.950	61.976
			Std. Dev	6144		
			%RSD	1.83		
76	CCB	6/16/2022 6:42:47AM	1	3851	0.000	0.000
		6/16/2022 6:48:45AM	2	3492	0.000	0.000
			Avg	3672	0.000	0.000
			Std. Dev	254		
			%RSD	6.91		
77	MB	6/16/2022 6:58:43AM	1	3326	0.000	0.000
		6/16/2022 7:04:36AM	2	2942	0.000	0.000
			Avg	3134	0.000	0.000
			Std. Dev	272		
			%RSD	8.67		
78	LCS	6/16/2022 7:15:04AM	1	343491	126.827	63.414
		6/16/2022 7:21:05AM	2	349905	129.243	64.621

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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	346698	128.040	64.018
			Std. Dev	4536		
			%RSD	1.31		
79	180-139071-I-1 MS	6/16/2022 7:30:45AM	1	166396	60.143	30.072
		6/16/2022 7:36:58AM	2	161211	58.191	29.095
			Avg	163803	59.170	29.583
			Std. Dev	3667		
			%RSD	2.24		
80	180-139071-I-1 MSD	6/16/2022 7:46:56AM	1	160993	58.108	29.054
		6/16/2022 7:53:03AM	2	160251	57.829	28.915
			Avg	160622	57.970	28.984
			Std. Dev	524		
			%RSD	0.33		
81	180-139071-J-1	6/16/2022 8:03:31AM	1	9665	1.127	0.563
		6/16/2022 8:09:43AM	2	9508	1.068	0.534
			Avg	9587	1.100	0.549
			Std. Dev	111		
			%RSD	1.16		
82	180-139071-I-2	6/16/2022 8:19:39AM	1	7683	0.380	0.190
		6/16/2022 8:25:58AM	2	8035	0.513	0.256
			Avg	7859	0.450	0.223
			Std. Dev	249		
			%RSD	3.16		
83	180-139071-I-3	6/16/2022 8:35:29AM	1	26601	7.504	3.752
		6/16/2022 8:41:44AM	2	26304	7.392	3.696
			Avg	26452	7.450	3.724
			Std. Dev	210		
			%RSD	0.80		
84	620-4945-H-1	6/16/2022 8:52:04AM	1	101992	35.892	17.946
		6/16/2022 8:58:15AM	2	100887	35.476	17.738
			Avg	101440	35.680	17.842
			Std. Dev	782		
			%RSD	0.77		
85	620-4945-I-2	6/16/2022 9:08:00AM	1	23974	6.514	3.257
		6/16/2022 9:14:22AM	2	24509	6.716	3.358
			Avg	24241	6.620	3.308
			Std. Dev	379		
			%RSD	1.56		
86	CCV	6/16/2022 9:23:41AM	1	338141	124.813	62.406
		6/16/2022 9:29:52AM	2	339891	125.472	62.736
			Avg	339016	125.140	62.571
			Std. Dev	1237		
			%RSD	0.36		

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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
87	CCB	6/16/2022 9:39:34AM	1	3879	0.000	0.000
		6/16/2022 9:45:45AM	2	3522	0.000	0.000
			Avg	3701	0.000	0.000
			Std. Dev	252		
			%RSD	6.82		
88	CCVL	6/16/2022 9:55:55AM	1	9834	1.190	0.595
		6/16/2022 10:02:37AM	2	12070	2.032	1.016
			Avg	10952	1.610	0.805
			Std. Dev	1581		
			%RSD	14.43		

< 5XRL

Historical Data Summary Report

For Batch 630302

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198581-N-1 ^5	MLLA3	5310C	Total Organic Carbon	Total/NA	mg/L	8	5.0	221	☑	2.3 - 19.075	☑	5.92 - 20.76
480-198813-Q-1	MW-1A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.787	☐	0 - 1.92
480-198813-Q-1	MW-1A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.787	☐	0 - 1.92
480-198813-Q-1	MW-1A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.787	☐	0 - 1.92
480-198815-O-2	RE-7	5310C	TOC Result 1	Total/NA	mg/L	4	1.0	ND	☐	0 - 2.169	☐	0 - 1.68
480-198815-O-2	RE-7	5310C	TOC Result 2	Total/NA	mg/L	4	1.0	ND	☐	0 - 2.014	☐	0 - 1.56
480-198815-O-2	RE-7	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	4	1.0	ND	☐	0 - 2.014	☐	0 - 1.56
480-198843-I-1	DUP	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	2.2	☐	1.001 - 5.124	☐	1.36 - 4.68
480-198843-I-2	MW-12S	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	2.1	☐	0.937 - 3.513	☐	1.28 - 3.36
480-198843-I-3	MW-13S	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	ND	☐	0 - 2.014	☐	0 - 1.56
480-198843-I-4	MW-14S-R	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	1.9	☐	0.723 - 4.452	☐	1.52 - 4.92
480-198843-I-5	MW-15S	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	3.5	☐	2.271 - 5.004	☐	2.4 - 5.28
480-198843-I-6	MW-17S	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	1.8	☐	1.215 - 4.66	☐	1.6 - 4.8
480-198851-B-1 ^4	AW#1 SPLIT W/ NF	5310C	Total Organic Carbon	Total/NA	mg/L	8	4.0	144	☐	31.23 - 335.77	☐	102.4 - 355.2
480-198851-B-2	AW#2 SPLIT W/ NF	5310C	Total Organic Carbon	Total/NA	mg/L	8	1.0	67.7	☐	9.139 - 161.461	☐	37.76 - 142.8
480-198852-B-1 ^20	MS EFFLUENT SPL	5310C	Total Organic Carbon	Total/NA	mg/L	8	20.0	728	☐	0 - 896.601	☐	16.56 - 738
480-198860-O-1	PGW-1	5310C	TOC Result 1	Total/NA	mg/L	4	1.0	10.3	☐	0.327 - 13.023	☐	3.52 - 12
480-198860-O-1	PGW-1	5310C	TOC Result 2	Total/NA	mg/L	4	1.0	9.9	☐	0 - 14.179	☐	3.52 - 12.96
480-198860-O-1	PGW-1	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	4	1.0	10.1	☐	0 - 13.598	☐	3.52 - 12.48
480-198860-O-2	PLT-2	5310C	TOC Result 1	Total/NA	mg/L	4	1.0	15.7	☐	8.146 - 21.204	☐	9.36 - 21.36
480-198860-O-2	PLT-2	5310C	TOC Result 2	Total/NA	mg/L	4	1.0	15.0	☐	6.986 - 22.914	☐	9.12 - 22.56
480-198860-O-2	PLT-2	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	4	1.0	15.4	☐	7.504 - 22.096	☐	9.2 - 21.96
480-198860-O-3	RE-4	5310C	TOC Result 1	Total/NA	mg/L	4	1.0	3.8	☐	1.2 - 4.15	☐	1.68 - 3.96
480-198860-O-3	RE-4	5310C	TOC Result 2	Total/NA	mg/L	4	1.0	3.5	☐	0.858 - 4.492	☐	1.6 - 4.2
480-198860-O-3	RE-4	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	4	1.0	3.7	☐	1.04 - 4.31	☐	1.68 - 4.08
480-198860-O-4	RE-5	5310C	TOC Result 1	Total/NA	mg/L	4	1.0	1.4	☑	1.415 - 2.085	☐	1.28 - 2.28
480-198860-O-4	RE-5	5310C	TOC Result 2	Total/NA	mg/L	4	1.0	1.3	☑	1.331 - 2.219	☐	1.28 - 2.4
480-198860-O-4	RE-5	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	4	1.0	1.4	☑	1.5 - 2.1	☐	1.36 - 2.28
480-198860-O-6	RE-8	5310C	TOC Result 1	Total/NA	mg/L	4	1.0	1.5	☐	0 - 3.122	☐	0 - 2.04
480-198860-O-6	RE-8	5310C	TOC Result 2	Total/NA	mg/L	4	1.0	1.4	☐	0 - 2.812	☐	0 - 1.92
480-198860-O-6	RE-8	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	4	1.0	1.4	☐	0 - 2.95	☐	0 - 2.04
480-198860-P-5	RE-6	5310C	TOC Result 1	Total/NA	mg/L	2	1.0	1.7	☑	2.2 - 2.2	☑	1.76 - 2.64
480-198860-P-5	RE-6	5310C	TOC Result 2	Total/NA	mg/L	2	1.0	1.7	☐	1.6 - 2.8	☑	1.76 - 2.64
480-198860-P-5	RE-6	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	2	1.0	1.7	☑	1.9 - 2.5	☑	1.76 - 2.64
480-198863-P-1	UD-1	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	2.1	☐	0 - 5.688	☐	0 - 5.04

Historical Data Summary Report

For Batch 630302

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198863-P-1	UD-1	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	2.1	☐	0 - 5.767	☐	0 - 5.16
480-198863-P-1	UD-1	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	2.1	☐	0 - 5.759	☐	0 - 5.16
480-198863-P-2	UD-2	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	2.0	☐	1.056 - 5.494	☐	1.44 - 5.16
480-198863-P-2	UD-2	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	2.0	☐	1.158 - 5.567	☐	1.52 - 5.4
480-198863-P-2	UD-2	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	2.0	☐	1.173 - 5.477	☐	1.52 - 5.28
480-198866-P-1	SW-1	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	5.9	☐	2.407 - 8.918	☐	3.12 - 8.52
480-198866-P-1	SW-1	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	6.4	☐	2.499 - 9.201	☐	3.04 - 8.4
480-198866-P-1	SW-1	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	6.2	☐	2.422 - 9.103	☐	3.04 - 8.52
480-198866-P-2	SW-2	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	6.4	☐	1.118 - 7.457	☐	2.08 - 6.84
480-198866-P-2	SW-2	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	6.5	☐	1.305 - 7.945	☐	2.24 - 7.2
480-198866-P-2	SW-2	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	6.5	☐	1.374 - 7.551	☐	2.16 - 6.84
480-198866-P-3	SW-3	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	7.0	☑	1.094 - 6.956	☑	2.16 - 6.6
480-198866-P-3	SW-3	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	7.3	☑	1.265 - 7.235	☑	2.32 - 6.6
480-198866-P-3	SW-3	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	7.1	☑	1.249 - 7.026	☑	2.24 - 6.6
480-198919-M-1	GMW-25	5310C	Total Organic Carbon	Total/NA	mg/L	8	1.0	ND	☐	0 - 27.518	☐	0 - 21.12

631324/631325

BATCH # ~~631307~~

TOC Wheel Worksheet

SM5310 D_1

Instrument # TOC1

Method 5310C/~~SM5310~~

SRF # 59133

File Name 20220621 A

	Sample ID	Dil	pH	Comment
1	Rinse			
2	CCV			
3	CCB			
4	MB			
5	LCS			
6	~~C-6 480-199104-E-8~~	TIC ~~10X~~	KER	
7	D-6 ~~C-2~~			
8	C-7MS			
9	C-7MSD			
10	D-7			>split
11	C-8			
12	C-9			
13	C-10			
14	CCV			
15	CCB			
16	C-1	10X		
17	C-2	10X		4mL → 40mL
18	C-3	10X		
19	C-4	10X		
20	E-5	10X		
21	E-1	10X		
22	E-2	10X		
23	E-3	10X		
24	E-4	10X		
25	C-5	10X		
26	CCV			
27	CCB			
28	MB			
29	LCS			
30	199006-P-1MS			
31	P-1 MSD			
32	Q-1			>split
33	P-2			
34	P-3			
35	P-4			
36	P-5			
37	P-6			
38	CCV			
39	CCB			
40	P-7			
41	P-8			
42	P-9			
43	P-10			
44	199026-I-1	40X		
45	199074-I-1	100X		1mL → 40mL
46	199118-J-1			→ 40mL

480-199104

5310C

SM5310D DOC

	Sample ID	Dil	pH	Comment
47	199116-K-1			
48	198813-Q-2			
49	P-3			
50	CCV			
51	CCB			
52	MB			
53	LCS			
54	199133-A-1 MS		KER	
55	A-1 MSD		↓	
56	A-1			
57	A-2			
58	198813-P-4			
59	198813-P-5			
60	P-6			
61	P-9			
62	CCV			
63	CCB			
64	199133-A-3			
65	A-4			
66	A-5			
67	A-6			
68	A-7			
69	A-8			
70	A-9			
71	A-10			
72	A-11			
73	A-12			
74	CCV			
75	CCB			
76	MB			
77	LCS			
78	soil MB			
79	soil LCS			
80	810-25676-A-2 MS			
81	A-2 MSD			
82	A-2			
83	480-199133-A-13		KER	
84	A-14		↓	
85	A-15			
86	CCV			
87	CCB			

Date 06/21/2022

Analyst KER

TIC 6967173

MS 6955682

CCV 7031473

LCS 7031474

All pH <2 KER

pipette (1,000 uL) M43072G

acid 7003480

sodium persulfate 7043269

phosphoric acid 6997294

BF-WC-TOCWW-016 Rev.1 8/7/2019

OI Corporation TOC Reporter
Instrument ID: A547730578 Wet - Chemistry

User ID:toc Name:Total Organic Carbon
Title:Mr Dept:OIC-TOC

Calibration - Quick View -TOC

Revision: 1-20220613Acal - Jun 13, 2022; 05-20-01 PM
Modified By: toc
Date Created: 2022/06/13; 05:20 PM
Last Modified: 2022/06/13; 05:20 PM
Last Calibrated: 2022/06/13; 08:00 PM

RF(ugC/k-cnt): 0.3765
R2: 0.9991
Reagent Blank(cts): 2,441
Offset Area(cts): 6,673
Offset Mass(ugC): -2.51

Std #	Conc (PPM)	Volume (mL)	# Reps	Area	Std. Dev	%RSD	Date Analysed
RW	0.000	2.000	2	2,580	58	2.25	2022-06-13; 06:17PM
1	1.000	2.000	2	9,452	162	1.71	2022-06-13; 06:33PM
2	2.000	2.000	2	15,177	156	1.03	2022-06-13; 06:50PM
3	5.000	2.000	2	33,076	58	0.17	2022-06-13; 07:06PM
4	10.000	2.000	2	63,490	136	0.21	2022-06-13; 07:21PM
5	50.000	2.000	2	283,228	1,204	0.43	2022-06-13; 07:37PM
6	100.000	2.000	2	532,030	6,867	1.29	2022-06-13; 07:54PM

In batch: 630302

STDS: 6955681

Sodium Persulfate: 6987148

Phosphoric: 6967027

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
2	Rinse	6/22/2022 11:06:39AM	1	3632	0.000	0.000
		6/22/2022 11:11:59AM	2	3579	0.000	0.000
			Avg	3605	0.000	0.000
			Std. Dev	37		
			%RSD	1.03		
3	CCV	6/22/2022 11:21:59AM	1	333754	123.161	61.580
		6/22/2022 11:28:04AM	2	333914	123.221	61.611
			Avg	333834	123.190	61.596
			Std. Dev	114		
			%RSD	0.03		
4	CCB	6/22/2022 11:37:24AM	1	3614	0.000	0.000
		6/22/2022 11:43:55AM	2	3875	0.000	0.000
			Avg	3745	0.000	0.000
			Std. Dev	185		
			%RSD	4.94		
5	MB	6/22/2022 11:52:43AM	1	3349	0.000	0.000
		6/22/2022 11:58:45AM	2	3379	0.000	0.000
			Avg	3364	0.000	0.000
			Std. Dev	21		
			%RSD	0.63		
6	LCS	6/22/2022 12:08:54PM	1	343195	126.716	63.358
		6/22/2022 12:14:58PM	2	339762	125.423	62.712
			Avg	341479	126.070	63.035
			Std. Dev	2427		
			%RSD	0.71		
7	480-199104-C-6	6/22/2022 12:24:59PM	1	155176	55.918	27.959
		6/22/2022 12:30:51PM	2	159522	57.555	28.777
			Avg	157349	56.740	28.368
			Std. Dev	3074		
			%RSD	1.95		
8	480-199104-D-6	6/22/2022 12:40:40PM	1	165103	59.656	29.828
		6/22/2022 12:46:39PM	2	164293	59.351	29.676
			Avg	164698	59.500	29.752
			Std. Dev	573		
			%RSD	0.35		
9	480-199104-C-7 MS	6/22/2022 12:56:23PM	1	307038	113.101	56.551
		6/22/2022 1:02:32PM	2	306716	112.980	56.490
			Avg	306877	113.040	56.521
			Std. Dev	228		
			%RSD	0.07		
10	480-199104-C-7 MSD	6/22/2022 1:12:32PM	1	292179	107.506	53.753
		6/22/2022 1:18:26PM	2	295645	108.811	54.406

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	293912	108.160	54.079
			Std. Dev	2451		
			%RSD	0.83		
11	480-199104-D-7	6/22/2022 1:28:28PM	1	162816	58.795	29.398
		6/22/2022 1:34:32PM	2	162504	58.677	29.339
			Avg	162660	58.740	29.368
			Std. Dev	221		
			%RSD	0.14		
12	480-199104-C-8	6/22/2022 1:44:39PM	1	156067	56.254	28.127
		6/22/2022 1:50:31PM	2	157678	56.861	28.430
			Avg	156873	56.560	28.278
			Std. Dev	1139		
			%RSD	0.73		
13	480-199104-C-9	6/22/2022 2:00:14PM	1	152665	54.973	27.486
		6/22/2022 2:06:18PM	2	151714	54.614	27.307
			Avg	152189	54.790	27.397
			Std. Dev	673		
			%RSD	0.44		
14	480-199104-C-10	6/22/2022 2:16:25PM	1	145688	52.345	26.173
		6/22/2022 2:22:57PM	2	141333	50.706	25.353
			Avg	143510	51.530	25.763
			Std. Dev	3080		
			%RSD	2.15		
15	CCV	6/22/2022 2:32:18PM	1	335717	123.900	61.950
		6/22/2022 2:38:22PM	2	333922	123.224	61.612
			Avg	334819	123.560	61.781
			Std. Dev	1269		
			%RSD	0.38		
16	CCB	6/22/2022 2:48:00PM	1	4179	0.000	0.000
		6/22/2022 2:54:07PM	2	4320	0.000	0.000
			Avg	4250	0.000	0.000
			Std. Dev	99		
			%RSD	2.34		
17	480-199104-C-1^10	6/22/2022 3:04:18PM	1	210478	76.742	38.371
		6/22/2022 3:10:17PM	2	210082	76.593	38.296
			Avg	210280	76.670	38.333
			Std. Dev	281		
			%RSD	0.13		
18	480-199104-C-2^10	6/22/2022 3:20:28PM	1	202135	73.600	36.800
		6/22/2022 3:26:26PM	2	205442	74.846	37.423
			Avg	203789	74.220	37.112
			Std. Dev	2339		
			%RSD	1.15		

Denotes First Failed Samples

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
19	480-199104-C-3^10	6/22/2022 3:36:36PM	1	196165	71.352	35.676
		6/22/2022 3:43:00PM	2	194231	70.624	35.312
			Avg	195198	70.990	35.494
			Std. Dev	1367		
			%RSD	0.70		
20	480-199104-C-4^10	6/22/2022 3:52:07PM	1	207625	75.668	37.834
		6/22/2022 3:58:07PM	2	208529	76.008	38.003
			Avg	208077	75.840	37.918
			Std. Dev	639		
			%RSD	0.31		
21	480-199104-E-5^10	6/22/2022 4:07:58PM	1	204897	74.640	37.320
		6/22/2022 4:14:05PM	2	209384	76.330	38.165
			Avg	207140	75.490	37.743
			Std. Dev	3173		
			%RSD	1.53		
22	480-199104-E-1^10	6/22/2022 4:24:05PM	1	208094	75.844	37.922
		6/22/2022 4:30:07PM	2	209073	76.213	38.107
			Avg	208584	76.030	38.014
			Std. Dev	693		
			%RSD	0.33		
23	480-199104-E-2^10	6/22/2022 4:40:17PM	1	200420	72.955	36.477
		6/22/2022 4:46:22PM	2	204270	74.404	37.202
			Avg	202345	73.680	36.839
			Std. Dev	2722		
			%RSD	1.35		
24	480-199104-E-3^10	6/22/2022 4:55:44PM	1	219166	80.013	40.007
		6/22/2022 5:01:49PM	2	214574	78.284	39.142
			Avg	216870	79.150	39.574
			Std. Dev	3247		
			%RSD	1.50		
25	480-199104-E-4^10	6/22/2022 5:12:13PM	1	198648	72.288	36.144
		6/22/2022 5:18:06PM	2	200338	72.924	36.462
			Avg	199493	72.610	36.303
			Std. Dev	1195		
			%RSD	0.60		
26	480-199104-C-5^10	6/22/2022 5:27:44PM	1	216001	78.822	39.411
		6/22/2022 5:33:53PM	2	214736	78.345	39.173
			Avg	215368	78.580	39.292
			Std. Dev	894		
			%RSD	0.42		
27	CCV	6/22/2022 5:43:58PM	1	328942	121.349	60.675
		6/22/2022 5:50:00PM	2	327367	120.756	60.377

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	328155	121.050	60.526
			Std. Dev	1114		
			%RSD	0.34		
28	CCB	6/22/2022 5:59:28PM	1	3573	0.000	0.000
		6/22/2022 6:05:41PM	2	3408	0.000	0.000
			Avg	3490	0.000	0.000
			Std. Dev	117		
			%RSD	3.36		
29	MB	6/22/2022 6:15:47PM	1	3218	0.000	0.000
		6/22/2022 6:21:56PM	2	3071	0.000	0.000
			Avg	3144	0.000	0.000
			Std. Dev	104		
			%RSD	3.31		
30	LCS	6/22/2022 6:32:02PM	1	335233	123.718	61.859
		6/22/2022 6:38:08PM	2	335182	123.699	61.849
			Avg	335207	123.710	61.854
			Std. Dev	36		
			%RSD	0.01		
31	480-199006-P-1 MS	6/22/2022 6:47:45PM	1	149646	53.836	26.918
		6/22/2022 6:53:57PM	2	148330	53.340	26.670
			Avg	148988	53.590	26.794
			Std. Dev	931		
			%RSD	0.62		
32	480-199006-P-1 MSD	6/22/2022 7:03:45PM	1	147527	53.038	26.519
		6/22/2022 7:09:54PM	2	148448	53.385	26.693
			Avg	147988	53.210	26.606
			Std. Dev	651		
			%RSD	0.44		
33	480-199006-Q-1	6/22/2022 7:19:49PM	1	5553	0.000	0.000
		6/22/2022 7:26:45PM	2	6186	0.000	0.000
			Avg	5869	0.000	0.000
			Std. Dev	448		
			%RSD	7.63		
34	480-199006-P-2	6/22/2022 7:36:00PM	1	13367	2.520	1.260
		6/22/2022 7:42:05PM	2	13293	2.493	1.246
			Avg	13330	2.510	1.253
			Std. Dev	52		
			%RSD	0.39		
35	480-199006-P-3	6/22/2022 7:51:43PM	1	6461	0.000	0.000
		6/22/2022 7:58:18PM	2	6295	0.000	0.000
			Avg	6378	0.000	0.000
			Std. Dev	117		
			%RSD	1.84		

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
36	480-199006-P-4	6/22/2022 8:08:07PM	1	30587	9.005	4.502
		6/22/2022 8:14:04PM	2	32217	9.619	4.809
			Avg	31402	9.310	4.656
			Std. Dev	1153		
			%RSD	3.67		
37	480-199006-P-5	6/22/2022 8:24:06PM	1	6116	0.000	0.000
		6/22/2022 8:30:00PM	2	6146	0.000	0.000
			Avg	6131	0.000	0.000
			Std. Dev	21		
			%RSD	0.34		
38	480-199006-P-6	6/22/2022 8:40:13PM	1	11928	1.979	0.989
		6/22/2022 8:46:35PM	2	12206	2.084	1.042
			Avg	12067	2.030	1.015
			Std. Dev	197		
			%RSD	1.63		
39	CCV	6/22/2022 8:56:18PM	1	331858	122.447	61.224
		6/22/2022 9:02:24PM	2	331623	122.359	61.179
			Avg	331740	122.400	61.201
			Std. Dev	166		
			%RSD	0.05		
40	CCB	6/22/2022 9:11:59PM	1	3445	0.000	0.000
		6/22/2022 9:18:16PM	2	3753	0.000	0.000
			Avg	3599	0.000	0.000
			Std. Dev	218		
			%RSD	6.05		
41	480-199006-P-7	6/22/2022 9:28:13PM	1	12955	2.365	1.183
		6/22/2022 9:35:00PM	2	13733	2.659	1.329
			Avg	13344	2.510	1.256
			Std. Dev	551		
			%RSD	4.13		
42	480-199006-P-8	6/22/2022 9:44:13PM	1	5565	0.000	0.000
		6/22/2022 9:50:44PM	2	5814	0.000	0.000
			Avg	5689	0.000	0.000
			Std. Dev	176		
			%RSD	3.10		
43	480-199006-P-9	6/22/2022 10:00:20PM	1	107267	37.878	18.939
		6/22/2022 10:06:31PM	2	105496	37.211	18.606
			Avg	106382	37.540	18.773
			Std. Dev	1252		
			%RSD	1.18		
44	480-199006-P-10	6/22/2022 10:17:16PM	1	7445	0.291	0.145
		6/22/2022 10:22:59PM	2	7533	0.324	0.162

User ID:toc Name: Total Organic Carbon
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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	7489	0.310	0.153
			Std. Dev	62		
			%RSD	0.83		
45	480-199026-I-1^40	6/22/2022 10:33:06PM	1	167343	60.500	30.250
		6/22/2022 10:38:46PM	2	168543	60.951	30.476
			Avg	167943	60.730	30.363
			Std. Dev	848		
			%RSD	0.51		
46	480-199074-I-1^100	6/22/2022 10:49:12PM	1	178530	64.712	32.356
		6/22/2022 10:55:02PM	2	179876	65.219	32.609
			Avg	179203	64.970	32.483
			Std. Dev	951		
			%RSD	0.53		
47	480-199118-J-1	6/22/2022 11:05:13PM	1	46024	14.817	7.409
		6/22/2022 11:11:31PM	2	46118	14.853	7.426
			Avg	46071	14.840	7.418
			Std. Dev	66		
			%RSD	0.14		
48	480-199116-K-1	6/22/2022 11:21:13PM	1	78659	27.106	13.553
		6/22/2022 11:27:26PM	2	85181	29.562	14.781
			Avg	81920	28.330	14.167
			Std. Dev	4611		
			%RSD	5.63		
49	480-198813-Q-2	6/22/2022 11:36:50PM	1	40949	12.906	6.453
		6/22/2022 11:42:54PM	2	41077	12.955	6.477
			Avg	41013	12.930	6.465
			Std. Dev	91		
			%RSD	0.22		
50	480-198813-P-3	6/22/2022 11:53:26PM	1	27541	7.858	3.929
		6/22/2022 11:59:19PM	2	28343	8.160	4.079
			Avg	27942	8.010	4.004
			Std. Dev	568		
			%RSD	2.03		
51	CCV	6/23/2022 12:09:00AM	1	332735	122.777	61.389
		6/23/2022 12:15:02AM	2	330599	121.973	60.987
			Avg	331667	122.380	61.188
			Std. Dev	1510		
			%RSD	0.46		
52	CCB	6/23/2022 12:24:46AM	1	3633	0.000	0.000
		6/23/2022 12:30:53AM	2	3525	0.000	0.000
			Avg	3579	0.000	0.000
			Std. Dev	77		
			%RSD	2.14		

User ID:toc Name: Total Organic Carbon
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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
53	MB	6/23/2022 12:40:40AM	1	3246	0.000	0.000
		6/23/2022 12:46:44AM	2	3184	0.000	0.000
			Avg	3215	0.000	0.000
			Std. Dev	44		
			%RSD	1.36		
54	LCS	6/23/2022 12:57:04AM	1	340335	125.639	62.820
		6/23/2022 1:03:06AM	2	337024	124.392	62.196
			Avg	338679	125.020	62.508
			Std. Dev	2341		
			%RSD	0.69		
55	480-199133-A-1 MS	6/23/2022 1:12:45AM	1	363674	134.427	67.214
		6/23/2022 1:18:52AM	2	360573	133.260	66.630
			Avg	362123	133.840	66.922
			Std. Dev	2192		
			%RSD	0.61		
56	480-199133-A-1 MSD	6/23/2022 1:28:47AM	1	368367	136.194	68.097
		6/23/2022 1:34:54AM	2	362548	134.003	67.002
			Avg	365458	135.100	67.549
			Std. Dev	4114		
			%RSD	1.13		
57	480-199133-A-1	6/23/2022 1:44:56AM	1	207838	75.748	37.874
		6/23/2022 1:51:15AM	2	206392	75.203	37.602
			Avg	207115	75.480	37.738
			Std. Dev	1023		
			%RSD	0.49		
58	480-199133-A-2	6/23/2022 2:01:07AM	1	210654	76.808	38.404
		6/23/2022 2:07:14AM	2	207310	75.549	37.774
			Avg	208982	76.180	38.089
			Std. Dev	2365		
			%RSD	1.13		
59	480-198813-P-4	6/23/2022 2:17:37AM	1	14713	3.028	1.514
		6/23/2022 2:23:31AM	2	14894	3.096	1.548
			Avg	14804	3.060	1.531
			Std. Dev	128		
			%RSD	0.86		
60	480-198813-P-5	6/23/2022 2:33:31AM	1	22209	5.850	2.925
		6/23/2022 2:40:02AM	2	23165	6.210	3.105
			Avg	22687	6.030	3.015
			Std. Dev	676		
			%RSD	2.98		
61	480-198813-P-6	6/23/2022 2:49:33AM	1	12244	2.098	1.049
		6/23/2022 2:56:03AM	2	12985	2.377	1.188

User ID:toc Name: Total Organic Carbon
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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	12614	2.240	1.118
			Std. Dev	524		
			%RSD	4.16		
62	480-198813-P-9	6/23/2022 3:05:26AM	1	44165	14.118	7.059
		6/23/2022 3:11:30AM	2	43929	14.029	7.014
			Avg	44047	14.070	7.036
			Std. Dev	167		
			%RSD	0.38		
63	CCV	6/23/2022 3:21:40AM	1	333295	122.988	61.494
		6/23/2022 3:27:43AM	2	333778	123.170	61.585
			Avg	333536	123.080	61.539
			Std. Dev	341		
			%RSD	0.10		
64	CCB	6/23/2022 3:37:43AM	1	3619	0.000	0.000
		6/23/2022 3:43:29AM	2	3466	0.000	0.000
			Avg	3543	0.000	0.000
			Std. Dev	108		
			%RSD	3.05		
65	480-199133-A-3	6/23/2022 3:53:36AM	1	275046	101.055	50.527
		6/23/2022 3:59:46AM	2	275181	101.105	50.553
			Avg	275113	101.080	50.540
			Std. Dev	95		
			%RSD	0.03		
66	480-199133-A-4	6/23/2022 4:09:47AM	1	150964	54.332	27.166
		6/23/2022 4:16:04AM	2	152031	54.734	27.367
			Avg	151498	54.530	27.267
			Std. Dev	755		
			%RSD	0.50		
67	480-199133-A-5	6/23/2022 4:25:47AM	1	246999	90.494	45.247
		6/23/2022 4:32:03AM	2	240626	88.094	44.047
			Avg	243812	89.290	44.647
			Std. Dev	4506		
			%RSD	1.85		
68	480-199133-A-6	6/23/2022 4:41:57AM	1	167147	60.426	30.213
		6/23/2022 4:48:12AM	2	161258	58.208	29.104
			Avg	164202	59.320	29.658
			Std. Dev	4164		
			%RSD	2.54		
69	480-199133-A-7	6/23/2022 4:58:01AM	1	191879	69.739	34.869
		6/23/2022 5:04:20AM	2	186911	67.868	33.933
			Avg	189395	68.800	34.401
			Std. Dev	3513		
			%RSD	1.85		

User ID:toc Name: Total Organic Carbon
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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
70	480-199133-A-8	6/23/2022 5:14:21AM	1	112926	40.009	20.005
		6/23/2022 5:20:40AM	2	113004	40.038	20.019
			Avg	112965	40.020	20.012
			Std. Dev	55		
			%RSD	0.05		
71	480-199133-A-9	6/23/2022 5:30:12AM	1	160230	57.821	28.911
		6/23/2022 5:36:25AM	2	159072	57.385	28.693
			Avg	159651	57.600	28.802
			Std. Dev	819		
			%RSD	0.51		
72	480-199133-A-10	6/23/2022 5:46:54AM	1	94411	33.037	16.519
		6/23/2022 5:52:53AM	2	96277	33.740	16.870
			Avg	95344	33.390	16.695
			Std. Dev	1319		
			%RSD	1.38		
73	480-199133-A-11	6/23/2022 6:02:25AM	1	137925	49.422	24.711
		6/23/2022 6:08:34AM	2	137896	49.412	24.706
			Avg	137910	49.420	24.708
			Std. Dev	20		
			%RSD	0.01		
74	480-199133-A-12	6/23/2022 6:18:51AM	1	103919	36.618	18.309
		6/23/2022 6:25:20AM	2	106718	37.671	18.836
			Avg	105318	37.140	18.573
			Std. Dev	1979		
			%RSD	1.88		
75	CCV	6/23/2022 6:34:36AM	1	335991	124.003	62.002
		6/23/2022 6:40:43AM	2	335552	123.838	61.919
			Avg	335771	123.920	61.961
			Std. Dev	311		
			%RSD	0.09		
76	CCB	6/23/2022 6:50:28AM	1	3912	0.000	0.000
		6/23/2022 6:56:38AM	2	3942	0.000	0.000
			Avg	3927	0.000	0.000
			Std. Dev	21		
			%RSD	0.54		
77	MB	6/23/2022 7:06:34AM	1	3450	0.000	0.000
		6/23/2022 7:12:44AM	2	3558	0.000	0.000
			Avg	3504	0.000	0.000
			Std. Dev	77		
			%RSD	2.19		
78	LCS	6/23/2022 7:23:06AM	1	343338	126.770	63.384
		6/23/2022 7:29:06AM	2	341860	126.213	63.107

User ID:toc Name: Total Organic Carbon
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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	342599	126.490	63.246
			Std. Dev	1045		
			%RSD	0.31		
79	480-7042789	6/23/2022 7:38:54AM	1	9814	1.183	0.591
		6/23/2022 7:45:07AM	2	10415	1.409	0.704
			Avg	10114	1.300	0.648
			Std. Dev	424		
			%RSD	4.20		
80	480-7042790	6/23/2022 7:55:14AM	1	310789	114.513	57.257
		6/23/2022 8:01:11AM	2	309706	114.106	57.052
			Avg	310247	114.310	57.154
			Std. Dev	765		
			%RSD	0.25		
81	480-7042791	6/23/2022 8:11:29AM	1	330681	122.004	61.002
		6/23/2022 8:17:44AM	2	335933	123.982	61.991
			Avg	333307	122.990	61.496
			Std. Dev	3713		
			%RSD	1.11		
82	480-7042792	6/23/2022 8:27:10AM	1	314811	116.028	58.014
		6/23/2022 8:33:20AM	2	311269	114.694	57.347
			Avg	313040	115.360	57.681
			Std. Dev	2505		
			%RSD	0.80		
83	480-7042793	6/23/2022 8:43:42AM	1	47078	15.214	7.607
		6/23/2022 8:49:53AM	2	49503	16.127	8.064
			Avg	48290	15.670	7.835
			Std. Dev	1715		
			%RSD	3.55		
84	480-199133-A-13	6/23/2022 8:59:25AM	1	133982	47.938	23.969
		6/23/2022 9:06:05AM	2	135333	48.447	24.223
			Avg	134657	48.190	24.096
			Std. Dev	956		
			%RSD	0.71		
85	480-199133-A-14	6/23/2022 9:15:45AM	1	125214	44.636	22.318
		6/23/2022 9:22:04AM	2	125021	44.564	22.282
			Avg	125118	44.600	22.300
			Std. Dev	136		
			%RSD	0.11		
86	480-199133-A-15	6/23/2022 9:31:26AM	1	183005	66.397	33.199
		6/23/2022 9:37:40AM	2	181758	65.928	32.964
			Avg	182382	66.160	33.082
			Std. Dev	882		
			%RSD	0.48		

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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
87	CCV	6/23/2022 9:47:36AM	1	334908	123.596	61.798
		6/23/2022 9:53:44AM	2	328513	121.187	60.594
			Avg	331710	122.390	61.196
			Std. Dev	4522		
			%RSD	1.36		
88	CCB	6/23/2022 10:03:31AM	1	12175	2.072	1.036
		6/23/2022 10:09:38AM	2	12631	2.243	1.122
			Avg	12403	2.160	1.079
			Std. Dev	323		
			%RSD	2.60		
89	CCVL	6/23/2022 10:19:35AM	1	16298	3.624	1.812
		6/23/2022 10:26:00AM	2	14910	3.102	1.551
			Avg	15604	3.360	1.682
			Std. Dev	981		
			%RSD	6.29		

Historical Data Summary Report

For Batch 631325

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198813-P-3	MW-2B	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	3.9	☐	2.242 - 8.783	☐	3.2 - 8.88
480-198813-P-3	MW-2B	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	4.1	☐	2.256 - 9.044	☐	3.28 - 9
480-198813-P-3	MW-2B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	4.0	☐	2.165 - 8.96	☐	3.2 - 9
480-198813-P-4	MW-3A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	1.5	☐	0 - 14.163	☐	0 - 14.52
480-198813-P-4	MW-3A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	1.5	☐	0 - 14.702	☐	0 - 15.24
480-198813-P-4	MW-3A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	1.5	☐	0 - 14.416	☐	0 - 14.88
480-198813-P-5	MW-3B	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	2.9	☑	0 - 2.371	☑	0 - 1.92
480-198813-P-5	MW-3B	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	3.1	☑	0 - 2.318	☑	0 - 1.92
480-198813-P-5	MW-3B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	3.0	☑	0 - 2.318	☑	0 - 1.92
480-198813-P-6	MW-4A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	1.0	☐	0.812 - 3.163	☑	1.12 - 3.12
480-198813-P-6	MW-4A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	1.2	☐	0.717 - 3.208	☐	1.04 - 3.12
480-198813-P-6	MW-4A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	1.1	☐	0.708 - 3.217	☐	1.04 - 3.12
480-198813-P-9	MW-6B	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	7.1	☑	0 - 3.19	☑	0 - 2.4
480-198813-P-9	MW-6B	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	7.0	☑	0 - 2.905	☑	0 - 2.16
480-198813-P-9	MW-6B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	7.0	☑	0 - 3.056	☑	0 - 2.16
480-198813-Q-2	MW-2A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	6.5	☐	2.248 - 8.827	☐	3.28 - 8.88
480-198813-Q-2	MW-2A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	6.5	☐	2.03 - 9.195	☐	3.2 - 9
480-198813-Q-2	MW-2A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	6.5	☐	2.077 - 9.048	☐	3.2 - 9
480-199006-P-10	MW-18B	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.959	☐	0 - 1.44
480-199006-P-10	MW-18B	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.452	☐	0 - 1.56
480-199006-P-10	MW-18B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.712	☐	0 - 1.44
480-199006-P-2	MW-11B	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	1.3	☐	0 - 3.533	☐	0 - 2.76
480-199006-P-2	MW-11B	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	1.2	☐	0 - 3.703	☐	0 - 2.76
480-199006-P-2	MW-11B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	1.3	☐	0 - 3.547	☐	0 - 2.76
480-199006-P-3	MW-12AA	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.712	☐	0 - 1.44
480-199006-P-3	MW-12AA	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.452	☐	0 - 1.56
480-199006-P-3	MW-12AA	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.341	☐	0 - 1.44
480-199006-P-4	MW-13B	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	4.5	☐	0 - 11.877	☐	2.64 - 12.24
480-199006-P-4	MW-13B	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	4.8	☐	0 - 11.966	☐	2.72 - 12.48
480-199006-P-4	MW-13B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	4.7	☐	0 - 11.893	☐	2.72 - 12.36
480-199006-P-5	MW-15B	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-199006-P-5	MW-15B	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-199006-P-5	MW-15B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0

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Historical Data Summary Report

For Batch 631325

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-199006-P-6	MW-16A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 8.32	☐	0 - 6.12
480-199006-P-6	MW-16A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	1.0	☐	0 - 8.54	☐	0 - 6.48
480-199006-P-6	MW-16A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	1.0	☐	0 - 8.346	☐	0 - 6.24
480-199006-P-7	MW-17A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	1.2	☐	0 - 2.107	☐	0 - 1.68
480-199006-P-7	MW-17A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	1.3	☐	0 - 2.186	☐	0 - 1.8
480-199006-P-7	MW-17A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	1.3	☐	0 - 2.186	☐	0 - 1.8
480-199006-P-8	MW-17B	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-199006-P-8	MW-17B	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-199006-P-8	MW-17B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-199006-P-9	MW-18A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	18.9	☐	0 - 25.591	☐	0.8 - 20.52
480-199006-P-9	MW-18A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	18.6	☐	0 - 25.653	☐	0.96 - 20.64
480-199006-P-9	MW-18A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	18.8	☐	0 - 25.57	☐	0.88 - 20.52
480-199006-Q-1	MW-11A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-199006-Q-1	MW-11A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-199006-Q-1	MW-11A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-199026-I-1 ^40	22-01884_HMV	5310C	Total Organic Carbon	Total/NA	mg/L	8	40.0	1200	☐	0 - 2551.928	☐	192 - 2760
480-199074-I-1 ^10	22-01920 Acid	5310C	Total Organic Carbon	Total/NA	mg/L	8	100.0	3200	☐	0 - 5303.407	☐	504 - 4320
480-199116-K-1	Phase 2 Sump	SM5310D	Total Organic Carbon	Total/NA	mg/L	5	1.0	14.2	☐	0 - 119.388	☑	23.28 - 113.4
480-199118-J-1	GW-3A	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	7.4	☑	0.555 - 5.02	☑	1.52 - 5.4

Page 2050 of 3302

TOC Wheel Worksheet

BATCH # 629996
Instrument # ~~TOC3~~ ~~TOC1~~ TOC3
SRF # 59018

Method 5310
File Name ~~20220608 P~~ ~~20220607~~ 20220613X

	Sample ID	Dil	pH	Comment
1	Rinse			
2	CCV			
3	CCB			
4	MB			
5	LCS			
6	180-138660-I-1 TIC			
7	J-1			
8	AO-2 MS			
9	AO-2 MSD			
10	AP-2			
11	AO-3			
12	I-4			
13	I-5			
14	CCV			
15	CCB			
16	I-6			
17	I-7			
18	I-8			
19	I-9			
20	I-10			
21	138733-I-1			
22	AE-2			
23	AE-3			
24	AC-4			
480- 25	198699-A-1			
26	CCV			
27	CCB			
28	MB			
29	LCS			
30	198699-A-2MS			
31	A-2 MSD			
32	B-2			
33	198720-Q-1			
34	Q-2			
35	Q-3			
36	Q-4			
37	180-138963-I-1			
38	CCV			
39	CCB			
138966-I 40	~~1~~ Filter MB			
AO- 41	2 Filter LCS			
AO-3 42	480-198612-A-1 MS			
139070-I 43	-1 A-2 MSD			
44	AO-2 A-1			
45	AO-3 A-4			
I-4 46	~~180-138~~			

	Sample ID	Dil	pH	Comment
47	I-5			
48	I-6			
49	I-7			
50	CCV			
51	CCB			
52	MB			
53	LCS			
54	Filter MB			
55	Filter LCS			
56	480-198642-A-1MS		KER	
57	A-1 MSD		↓	
58	A-2			
59	A-4			
60	180-139070-I-8			
61	I-9			
62	CCV			
63	CCB			
64	I-10			
65	139137-I-1			
66	AO-2			
67	AO-3			
68	I-4			
69	I-5			
70				
71				
72				
73				
74	CCV			
75	CCB			
76	MB			
77	LCS			
78				
79				
80				
81				
82				
83				
84				
85				
86	CCV			
87	CCB			

Date 06/08/2022

Analyst KER

TIC 6967173

MS 6955215

CCV ~~7017135~~ 7031473

LCS ~~7025015~~ 7031474

All pH <2 KER

pipette (1,000uL) M43072G

acid 7003480

sodium persulfate 6987143

phosphoric acid 6997292

BF-WC-TOCWW-016 Rev.1 8/7/2019

User ID:toc Name:Total Organic Carbon
Title:Mr Dept:OIC-TOC

Calibration - Quick View -TOC

Revision: 1-20220603Pcal - Jun 03, 2022; 11-43-22 AM
Modified By: toc
Date Created: 2022/06/03; 11:55 AM
Last Modified: 2022/06/03; 11:55 AM
Last Calibrated: 2022/06/03; 02:43 PM

RF(ugC/k-cnt): 0.3677
R2: 0.9982
Reagent Blank(cts): 1,074
Offset Area(cts): 3,477
Offset Mass(ugC): -1.28

Std #	Conc (PPM)	Volume (mL)	# Reps	Area	Std. Dev	%RSD	Date Analysed
RW	0.000	2.000	2	3,495	666	19.07	2022-06-03; 01:02PM
1	1.000	2.000	2	8,463	486	5.74	2022-06-03; 01:17PM
2	2.000	2.000	2	14,174	360	2.54	2022-06-03; 01:33PM
3	5.000	2.000	2	29,586	829	2.80	2022-06-03; 01:49PM
4	10.000	2.000	2	57,017	1,087	1.91	2022-06-03; 02:05PM
5	50.000	2.000	2	276,938	2,831	1.02	2022-06-03; 02:21PM
6	100.000	2.000	2	548,243	14,076	2.57	2022-06-03; 02:37PM

In batch: 6291126

STDS: 6955215

Phosphoric: 6967027

Persulfate: 6987150

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
2	Rinse	6/13/2022 5:39:55PM	1	4718	0.990	0.495
		6/13/2022 5:46:14PM	2	3129	0.284	0.142
			Avg	3924	0.640	0.319
			Std. Dev	1123		
			%RSD	28.63		
3	ICV	6/13/2022 5:54:38PM	1	270204	118.993	59.496
		6/13/2022 6:01:06PM	2	287764	126.798	63.399
			Avg	278984	122.900	61.448
			Std. Dev	12417		
			%RSD	4.45		
4	ICB	6/13/2022 6:12:09PM	1	3844	0.601	0.301
		6/13/2022 6:18:29PM	2	2817	0.145	0.072
			Avg	3330	0.370	0.186
			Std. Dev	726		
			%RSD	21.81		
5	MB	6/13/2022 6:28:20PM	1	2684	0.086	0.043
		6/13/2022 6:34:41PM	2	2539	0.021	0.011
			Avg	2611	0.050	0.027
			Std. Dev	102		
			%RSD	3.92		
6	LCS	6/13/2022 6:43:05PM	1	277374	122.180	61.090
		6/13/2022 6:49:27PM	2	292832	129.050	64.525
			Avg	285103	125.610	62.808
			Std. Dev	10930		
			%RSD	3.83		
7	180-138660-I-1 inf	6/13/2022 7:00:36PM	1	12877	4.616	2.308
		6/13/2022 7:06:57PM	2	11356	3.940	1.970
			Avg	12116	4.280	2.139
			Std. Dev	1075		
			%RSD	8.87		
8	180-138660-J-1	6/13/2022 7:15:16PM	1	9301	3.027	1.514
		6/13/2022 7:21:17PM	2	8526	2.683	1.341
			Avg	8914	2.850	1.428
			Std. Dev	548		
			%RSD	6.15		
9	180-138660-AO-2 MS	6/13/2022 7:30:56PM	1	128320	55.928	27.964
		6/13/2022 7:37:09PM	2	132295	57.695	28.848
			Avg	130308	56.810	28.406
			Std. Dev	2811		
			%RSD	2.16		
10	180-138660-AO-2 MSD	6/13/2022 7:47:00PM	1	129305	56.366	28.183
		6/13/2022 7:53:11PM	2	130151	56.742	28.371

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)	
			Avg	129728	56.550	28.277	
			Std. Dev	598			
			%RSD	0.46			
11	180-138660-AP-2	6/13/2022 8:03:13PM	1	5539	1.355	0.677	
		6/13/2022 8:11:13PM	2	5537	1.354	0.677	
			Avg	5538	1.350	0.677	
			Std. Dev	1			
			%RSD	0.02			
12	180-138660-AO-3	6/13/2022 8:20:57PM	1	6563	1.810	0.904	
		6/13/2022 8:27:08PM	2	5350	1.271	0.635	
			Avg	5957	1.540	0.770	<5XRL
			Std. Dev	858			
			%RSD	14.40			
13	180-138660-I-4	6/13/2022 8:35:51PM	1	5994	1.557	0.778	
		6/13/2022 8:43:23PM	2	6200	1.649	0.824	
			Avg	6097	1.600	0.801	
			Std. Dev	146			
			%RSD	2.40			
14	180-138660-I-5	6/13/2022 8:53:09PM	1	3752	0.560	0.280	
		6/13/2022 8:58:39PM	2	2803	0.139	0.069	
			Avg	3278	0.350	0.174	<5XRL
			Std. Dev	671			
			%RSD	20.46			
15	CCV	6/13/2022 9:07:56PM	1	269597	118.723	59.362	
		6/13/2022 9:14:24PM	2	284109	125.173	62.587	
			Avg	276853	121.950	60.974	
			Std. Dev	10261			
			%RSD	3.71			
16	CCB	6/13/2022 9:25:26PM	1	3591	0.489	0.244	
		6/13/2022 9:31:39PM	2	2432	0.000	0.000	
			Avg	3012	0.240	0.122	<5XRL
			Std. Dev	819			
			%RSD	27.19			
17	180-138660-I-6	6/13/2022 9:40:25PM	1	9172	2.970	1.485	
		6/13/2022 9:46:35PM	2	7894	2.402	1.201	
			Avg	8533	2.690	1.343	<5XRL
			Std. Dev	903			
			%RSD	10.59			
18	180-138660-I-7	6/13/2022 9:56:24PM	1	5672	1.414	0.707	
		6/13/2022 10:04:04PM	2	6155	1.629	0.814	
			Avg	5914	1.520	0.760	
			Std. Dev	342			
			%RSD	5.79			

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
19	180-138660-I-8	6/13/2022 10:13:06PM	1	11765	4.122	2.061
		6/13/2022 10:18:19PM	2	10419	3.524	1.762
			Avg	11092	3.820	1.912
			Std. Dev	952		
			%RSD	8.58		
20	180-138660-I-9	6/13/2022 10:28:47PM	1	5452	1.316	0.658
		6/13/2022 10:34:31PM	2	4712	0.987	0.494
			Avg	5082	1.150	0.576
			Std. Dev	523		
			%RSD	10.30		
21	180-138660-I-10	6/13/2022 10:45:13PM	1	4884	1.064	0.532
		6/13/2022 10:52:27PM	2	5009	1.119	0.560
			Avg	4947	1.090	0.546
			Std. Dev	88		
			%RSD	1.79		
22	180-138733-I-1	6/13/2022 11:00:55PM	1	8870	2.835	1.418
		6/13/2022 11:06:43PM	2	8304	2.584	1.292
			Avg	8587	2.710	1.355
			Std. Dev	400		
			%RSD	4.66		
23	180-138733-AE-2	6/13/2022 11:17:24PM	1	6000	1.560	0.780
		6/13/2022 11:22:44PM	2	5415	1.300	0.650
			Avg	5708	1.430	0.715
			Std. Dev	413		
			%RSD	7.24		
24	180-138733-AE-3	6/13/2022 11:33:00PM	1	7009	2.008	1.004
		6/13/2022 11:40:49PM	2	7367	2.167	1.084
			Avg	7188	2.090	1.044
			Std. Dev	253		
			%RSD	3.52		
25	180-138733-AC-4	6/13/2022 11:49:17PM	1	5837	1.487	0.744
		6/13/2022 11:55:50PM	2	5535	1.353	0.677
			Avg	5686	1.420	0.710
			Std. Dev	213		
			%RSD	3.75		
26	480-198699-A-1	6/14/2022 12:05:22AM	1	11407	3.963	1.982
		6/14/2022 12:11:39AM	2	11701	4.094	2.047
			Avg	11554	4.030	2.014
			Std. Dev	208		
			%RSD	1.80		
27	CCV	6/14/2022 12:21:13AM	1	267593	117.832	58.916
		6/14/2022 12:27:38AM	2	283097	124.723	62.362

<5XRL

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)	
			Avg	275345	121.280	60.639	
			Std. Dev	10963			
			%RSD	3.98			
28	CCB	6/14/2022 12:38:49AM	1	4226	0.771	0.386	
		6/14/2022 12:45:09AM	2	2416	0.000	0.000	
			Avg	3321	0.390	0.193	<5XRL
			Std. Dev	1280			
			%RSD	38.54			
29	MB	6/14/2022 12:54:20AM	1	1820	0.000	0.000	
		6/14/2022 1:01:23AM	2	2111	0.000	0.000	
			Avg	1966	0.000	0.000	<5XRL
			Std. Dev	205			
			%RSD	10.45			
30	LCS	6/14/2022 1:09:42AM	1	275254	121.237	60.619	
		6/14/2022 1:16:12AM	2	295183	130.096	65.048	
			Avg	285218	125.670	62.834	
			Std. Dev	14092			
			%RSD	4.94			
31	480-198699-A-2 MS	6/14/2022 1:25:43AM	1	123369	53.728	26.864	
		6/14/2022 1:31:57AM	2	128683	56.090	28.045	
			Avg	126026	54.910	27.454	
			Std. Dev	3757			
			%RSD	2.98			
32	480-198699-A-2 MSD	6/14/2022 1:41:49AM	1	122611	53.391	26.695	
		6/14/2022 1:48:07AM	2	127885	55.735	27.868	
			Avg	125248	54.560	27.282	
			Std. Dev	3730			
			%RSD	2.98			
33	480-198699-B-2	6/14/2022 1:58:31AM	1	11074	3.815	1.908	
		6/14/2022 2:05:00AM	2	10922	3.748	1.874	
			Avg	10998	3.780	1.891	
			Std. Dev	107			
			%RSD	0.98			
34	480-198720-Q-1	6/14/2022 2:15:49AM	1	4671	0.969	0.484	
		6/14/2022 2:20:37AM	2	3998	0.670	0.335	
			Avg	4334	0.820	0.410	<5XRL
			Std. Dev	476			
			%RSD	10.98			
35	480-198720-Q-2	6/14/2022 2:32:05AM	1	4146	0.736	0.368	
		6/14/2022 2:36:46AM	2	3225	0.326	0.163	
			Avg	3685	0.530	0.266	<5XRL
			Std. Dev	651			
			%RSD	17.67			

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)	
36	480-198720-Q-3	6/14/2022 2:46:59AM	1	3069	0.257	0.128	
		6/14/2022 2:53:51AM	2	2991	0.222	0.111	
			Avg	3030	0.240	0.119	
			Std. Dev	55			
			%RSD	1.82			
37	480-198720-Q-4	6/14/2022 3:03:00AM	1	3438	0.421	0.211	
		6/14/2022 3:10:56AM	2	3651	0.515	0.258	
			Avg	3544	0.470	0.234	
			Std. Dev	150			
			%RSD	4.24			
38	180-138963-I-1	6/14/2022 3:18:57AM	1	5624	1.392	0.696	
		6/14/2022 3:26:23AM	2	5714	1.433	0.716	
			Avg	5669	1.410	0.706	
			Std. Dev	64			
			%RSD	1.13			
39	CCV	6/14/2022 3:34:35AM	1	268195	118.100	59.050	
		6/14/2022 3:41:11AM	2	292488	128.898	64.449	
			Avg	280341	123.500	61.749	
			Std. Dev	17178			
			%RSD	6.13			
40	CCB	6/14/2022 3:52:22AM	1	2838	0.154	0.077	
		6/14/2022 3:58:42AM	2	3894	0.624	0.312	
			Avg	3366	0.390	0.194	<5XRL
			Std. Dev	747			
			%RSD	22.20			
41	180-138966-I-1	6/14/2022 4:08:39AM	1	4943	1.090	0.545	
		6/14/2022 4:14:58AM	2	4337	0.821	0.410	
			Avg	4640	0.960	0.478	
			Std. Dev	428			
			%RSD	9.23			
42	180-138966-AO-2	6/14/2022 4:23:48AM	1	5822	1.480	0.740	
		6/14/2022 4:30:13AM	2	4940	1.088	0.544	
			Avg	5381	1.280	0.642	<5XRL
			Std. Dev	624			
			%RSD	11.59			
43	180-138966-AO-3	6/14/2022 4:39:29AM	1	3983	0.663	0.332	
		6/14/2022 4:45:46AM	2	3480	0.440	0.220	
			Avg	3732	0.550	0.276	
			Std. Dev	356			
			%RSD	9.53			
44	180-139070-I-1	6/14/2022 4:55:33AM	1	5792	1.467	0.734	
		6/14/2022 5:03:34AM	2	7387	2.176	1.088	

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)	
			Avg	6590	1.820	0.911	<5XRL
			Std. Dev	1128			
			%RSD	17.12			
45	180-139070-AO-2	6/14/2022 5:12:14AM	1	6501	1.782	0.891	
		6/14/2022 5:17:53AM	2	5746	1.447	0.723	
			Avg	6123	1.610	0.807	
			Std. Dev	534			
			%RSD	8.72			
46	180-139070-AO-3	6/14/2022 5:28:17AM	1	4257	0.785	0.392	
		6/14/2022 5:35:40AM	2	4253	0.783	0.392	
			Avg	4255	0.780	0.392	
			Std. Dev	2			
			%RSD	0.05			
47	180-139070-I-4	6/14/2022 5:44:23AM	1	4557	0.918	0.459	
		6/14/2022 5:50:43AM	2	4014	0.677	0.338	
			Avg	4285	0.800	0.399	
			Std. Dev	384			
			%RSD	8.97			
48	180-139070-I-5	6/14/2022 6:00:32AM	1	4483	0.885	0.443	
		6/14/2022 6:07:10AM	2	4595	0.935	0.468	
			Avg	4539	0.910	0.455	
			Std. Dev	79			
			%RSD	1.74			
49	180-139070-I-6	6/14/2022 6:17:57AM	1	6065	1.588	0.794	
		6/14/2022 6:24:16AM	2	5021	1.124	0.562	
			Avg	5543	1.360	0.678	<5XRL
			Std. Dev	738			
			%RSD	13.32			
50	180-139070-I-7	6/14/2022 6:32:46AM	1	3490	0.444	0.222	
		6/14/2022 6:40:34AM	2	3548	0.470	0.235	
			Avg	3519	0.460	0.229	
			Std. Dev	41			
			%RSD	1.15			
51	CCV	6/14/2022 6:48:54AM	1	275354	121.282	60.641	
		6/14/2022 6:55:30AM	2	291762	128.575	64.288	
			Avg	283558	124.930	62.464	
			Std. Dev	11603			
			%RSD	4.09			
52	CCB	6/14/2022 7:06:36AM	1	3119	0.279	0.140	
		6/14/2022 7:12:54AM	2	2734	0.108	0.054	
			Avg	2926	0.190	0.097	
			Std. Dev	272			
			%RSD	9.29			

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)	
53	MB	6/14/2022 7:22:55AM	1	3078	0.261	0.131	
		6/14/2022 7:29:14AM	2	2590	0.044	0.022	
			Avg	2834	0.150	0.077	<5XRL
			Std. Dev	345			
			%RSD	12.17			
54	LCS	6/14/2022 7:37:48AM	1	276379	121.737	60.869	
		6/14/2022 7:44:21AM	2	291685	128.541	64.270	
			Avg	284032	125.140	62.569	a
			Std. Dev	10823			
			%RSD	3.81			
55	MB 480-629218/1	6/14/2022 7:55:26AM	1	2851	0.160	0.080	
		6/14/2022 8:01:43AM	2	2129	0.000	0.000	
			Avg	2490	0.080	0.040	<5XRL
			Std. Dev	510			
			%RSD	20.50			
56	LCS 480-629218/2	6/14/2022 8:10:19AM	1	277361	122.174	61.087	
		6/14/2022 8:16:48AM	2	291977	128.670	64.335	
			Avg	284669	125.420	62.711	
			Std. Dev	10335			
			%RSD	3.63			
57	480-198642-A-1 MS	6/14/2022 8:27:58AM	1	129770	56.573	28.287	
		6/14/2022 8:41:14AM	2	131116	57.171	28.586	
			Avg	130443	56.870	28.437	
			Std. Dev	951			
			%RSD	0.73			
58	480-198642-A-1 MSD	6/14/2022 8:47:43AM	1	120368	52.394	26.197	
		6/14/2022 8:54:46AM	2	127561	55.591	27.795	
			Avg	123964	53.990	26.996	
			Std. Dev	5086			
			%RSD	4.10			
59	480-198642-A-1	6/14/2022 9:04:40AM	1	24039	9.577	4.789	
		6/14/2022 9:11:00AM	2	24425	9.749	4.875	
			Avg	24232	9.660	4.832	
			Std. Dev	274			
			%RSD	1.13			
60	480-198642-A-4	6/14/2022 9:21:01AM	1	26990	10.889	5.445	
		6/14/2022 9:27:20AM	2	25016	10.012	5.006	
			Avg	26003	10.450	5.225	
			Std. Dev	1396			
			%RSD	5.37			
61	180-139070-I-8	6/14/2022 9:37:05AM	1	4371	0.835	0.418	
		6/14/2022 9:43:37AM	2	7164	2.077	1.039	

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)	
			Avg	5767	1.460	0.728	<5XRL
			Std. Dev	1975			
			%RSD	34.25			
62	180-139070-I-9	6/14/2022 9:52:45AM	1	3954	0.650	0.325	
		6/14/2022 9:58:54AM	2	5192	1.201	0.600	
			Avg	4573	0.930	0.463	<5XRL
			Std. Dev	876			
			%RSD	19.15			
63	CCV	6/14/2022 10:08:11AM	1	283130	124.738	62.369	
		6/14/2022 10:14:29AM	2	273771	120.578	60.289	
			Avg	278451	122.660	61.329	
			Std. Dev	6618			
			%RSD	2.38			
64	CCB	6/14/2022 10:25:53AM	1	2851	0.160	0.079	
		6/14/2022 10:32:20AM	2	3847	0.603	0.301	
			Avg	3349	0.380	0.190	<5XRL
			Std. Dev	704			
			%RSD	21.03			
65	180-139070-I-10	6/14/2022 10:40:59AM	1	5928	1.528	0.764	
		6/14/2022 10:46:56AM	2	7221	2.102	1.051	
			Avg	6574	1.810	0.908	<5XRL
			Std. Dev	914			
			%RSD	13.90			
66	180-139137-I-1	6/14/2022 10:56:41AM	1	6040	1.578	0.789	
		6/14/2022 11:03:49AM	2	8026	2.460	1.230	
			Avg	7033	2.020	1.010	<5XRL
			Std. Dev	1404			
			%RSD	19.97			
67	180-139137-AO-2	6/14/2022 11:13:03AM	1	5747	1.447	0.724	
		6/14/2022 11:19:20AM	2	7466	2.211	1.106	
			Avg	6607	1.830	0.915	<5XRL
			Std. Dev	1216			
			%RSD	18.40			
68	180-139137-AO-3	6/14/2022 11:30:55AM	1	5113	1.165	0.583	
		6/14/2022 11:35:52AM	2	5982	1.552	0.776	
			Avg	5547	1.360	0.680	<5XRL
			Std. Dev	615			
			%RSD	11.08			
69	180-139137-I-4	6/14/2022 11:46:32AM	1	5470	1.324	0.662	
		6/14/2022 11:52:15AM	2	6512	1.787	0.894	
			Avg	5991	1.560	0.778	<5XRL
			Std. Dev	737			
			%RSD	12.29			

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)	
70	180-139137-I-5	6/14/2022 12:03:12PM	1	4374	0.837	0.419	
		6/14/2022 12:09:24PM	2	5888	1.510	0.755	
			Avg	5131	1.170	0.587	<5XRL
			Std. Dev	1071			
			%RSD	20.87			
71	CCV	6/14/2022 12:18:29PM	1	284219	125.222	62.611	
		6/14/2022 12:24:32PM	2	276117	121.621	60.811	
			Avg	280168	123.420	61.711	
			Std. Dev	5729			
			%RSD	2.04			
72	CCB	6/14/2022 12:35:57PM	1	2308	0.000	0.000	
		6/14/2022 12:42:27PM	2	3302	0.360	0.180	
			Avg	2805	0.180	0.090	<5XRL
			Std. Dev	703			
			%RSD	25.06			
73	CCVL	6/14/2022 12:51:50PM	1	6794	1.913	0.956	
		6/14/2022 12:58:26PM	2	7365	2.167	1.083	
			Avg	7080	2.040	1.020	
			Std. Dev	404			
			%RSD	5.71			

Historical Data Summary Report

For Batch 629996

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198720-Q-1	CD-1	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.229	☐	0 - 1.32
480-198720-Q-1	CD-1	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.341	☐	0 - 1.44
480-198720-Q-1	CD-1	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.229	☐	0 - 1.32
480-198720-Q-2	CD-1RA	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.117	☐	0 - 1.2
480-198720-Q-2	CD-1RA	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.117	☐	0 - 1.2
480-198720-Q-2	CD-1RA	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.117	☐	0 - 1.2
480-198720-Q-3	MW-1B	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198720-Q-3	MW-1B	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.117	☐	0 - 1.2
480-198720-Q-3	MW-1B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0

BATCH # 630732

Instrument # TOC3

SRF # 59100

TOC Wheel Worksheet

Method 9060

File Name 20220617P

	Sample ID	Dil	pH	Comment
1	Rinse			
2	CCV			
3	CCB			
4	MB			
5	LCS			
6	480-198952-H-2 TIC			
7	I-2			
8	H-3 MS			
9	I-3			
10	H-4 DU			
11	I-4			
12	H-1	40X	KER	1mL→40mL
13	H-5			
14	CCV			
15	CCB			
16	H-6 MS			
17	I-6			
18	H-7 DU			
19	I-7			
20	H-8			
21	H-9			
22	H-10			
23	H-12			
24	H-13			
25	H-14			
26	CCV			
27	CCB			
28	MB			
29	LCS			
30	H-15 MS			
31	I-15			
32	H-16 DU			
33	I-16			
34	H-17			
35	H-18			
36	H-19			
37	H-20			
38	CCV			
39	CCB			
40	198996-I-1 MS		KER	
41	J-1		↓	
42	I-2 DU			
43	J-2			
44	I-3	4X	KER	10mL→40mL
45	I-4			
46	I-5		KER	

	Sample ID	Dil	pH	Comment
47	I-6			
48	I-7			
49	198813-P-4 ~~I-8~~			
50	CCV			
51	CCB			
52	MB			
53	LCS			
54	198997-I-1 MS			
55	J-1			
56	I-2 DU			
57	J-2			
58	P-3 ~~I-3~~			
59	199002-N-1	4X	KER	10mL → 40mL
60	480-198866-P-3			
61	198813-Q-2			
62	CCV			
63	CCB			
64	I-3 MS			
65	J-3			
66	198996-I-8 DU			
67	J-8			
68	198813-P-5			
69	P-6			
70	P-8			
71	P-9			
72	P-10			
73	198815-O-1			
74	CCV			
75	CCB			
76	MB			
77	LCS			
78	198990-K-1			
79	198519-H-4			
80				
81				
82				
83				
84				
85				
86	CCV			
87	CCB			

198813-

198997-

Date 06/17/2022

Analyst KER

TIC 6967173

MS 6955681

CCV 7031473

LCS 7031474

All pH <2 KER

pipette (1,000 uL) M43072G

acid 7003480

sodium persulfate 6987149

phosphoric acid 6997294

BF-WC-TOCWW-016 Rev.1 8/7/2019

User ID:toc Name:Total Organic Carbon
Title:Mr Dept:OIC-TOC

Calibration - Quick View -TOC

Revision: 1-20220603Pcal - Jun 03, 2022; 11-43-22 AM
Modified By: toc
Date Created: 2022/06/03; 11:55 AM
Last Modified: 2022/06/03; 11:55 AM
Last Calibrated: 2022/06/03; 02:43 PM

RF(ugC/k-cnt): 0.3677
R2: 0.9982
Reagent Blank(cts): 1,074
Offset Area(cts): 3,477
Offset Mass(ugC): -1.28

Std #	Conc (PPM)	Volume (mL)	# Reps	Area	Std. Dev	%RSD	Date Analysed
RW	0.000	2.000	2	3,495	666	19.07	2022-06-03; 01:02PM
1	1.000	2.000	2	8,463	486	5.74	2022-06-03; 01:17PM
2	2.000	2.000	2	14,174	360	2.54	2022-06-03; 01:33PM
3	5.000	2.000	2	29,586	829	2.80	2022-06-03; 01:49PM
4	10.000	2.000	2	57,017	1,087	1.91	2022-06-03; 02:05PM
5	50.000	2.000	2	276,938	2,831	1.02	2022-06-03; 02:21PM
6	100.000	2.000	2	548,243	14,076	2.57	2022-06-03; 02:37PM

In batch: 629126/630020

STDS: 6955215

Phosphoric: 6967027

Persulfate: 6987150

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)	
2	Rinse	6/17/2022 12:53:48PM	1	1683	0.000	0.000	
		6/17/2022 1:02:00PM	2	2166	0.000	0.000	
		6/17/2022 1:06:28PM	3	2013	0.000	0.000	
		6/17/2022 1:13:26PM	4	2047	0.000	0.000	
			Avg	1977	0.000	0.000	<5XRL
			Std. Dev	207			
			%RSD	10.45			
3	CCV	6/17/2022 1:23:05PM	1	259753	114.347	57.174	
		6/17/2022 1:29:25PM	2	273211	120.329	60.165	
		6/17/2022 1:36:26PM	3	267541	117.809	58.905	
		6/17/2022 1:42:58PM	4	276720	121.889	60.945	
			Avg	269306	118.590	59.297	
			Std. Dev	7407			
			%RSD	2.75			
4	CCB	6/17/2022 1:53:54PM	1	3759	0.564	0.282	
		6/17/2022 2:00:15PM	2	2697	0.091	0.046	
		6/17/2022 2:07:21PM	3	3753	0.561	0.281	
		6/17/2022 2:12:20PM	4	1552	0.000	0.000	
			Avg	2940	0.300	0.152	<5XRL
			Std. Dev	1052			
			%RSD	35.77			
5	MB	6/17/2022 2:24:05PM	1	3939	0.643	0.322	
		6/17/2022 2:30:24PM	2	3223	0.325	0.163	
		6/17/2022 2:36:35PM	3	2550	0.026	0.013	
		6/17/2022 2:44:33PM	4	2091	0.000	0.000	
			Avg	2951	0.250	0.124	<5XRL
			Std. Dev	806			
			%RSD	27.32			
6	LCS	6/17/2022 2:52:39PM	1	256770	113.022	56.511	
		6/17/2022 2:58:58PM	2	266313	117.263	58.632	
		6/17/2022 3:06:08PM	3	264553	116.481	58.241	
		6/17/2022 3:12:31PM	4	267503	117.792	58.896	
			Avg	263785	116.140	58.070	
			Std. Dev	4831			
			%RSD	1.83			
7	480-198952-H-2 inf	6/17/2022 3:21:59PM	1	19366	7.500	3.750	
		6/17/2022 3:29:56PM	2	20412	7.966	3.983	
		6/17/2022 3:35:28PM	3	25139	10.067	5.033	
		6/17/2022 3:43:01PM	4	17435	6.642	3.321	
			Avg	20588	8.040	4.022	<5XRL
			Std. Dev	3275			
			%RSD	15.91			
8	480-198952-I-2	6/17/2022 3:51:09PM	1	18009	6.897	3.449	
		6/17/2022 3:58:01PM	2	15465	5.766	2.883	

Denotes First Failed Samples

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)	
		6/17/2022 4:04:46PM	3	22120	8.725	4.362	
		6/17/2022 4:11:06PM	4	15971	5.991	2.996	
			Avg	17891	6.840	3.423	<5XRL
			Std. Dev	3026			
			%RSD	16.91			
9	480-198952-H-3 MS	6/17/2022 4:20:39PM	1	115102	50.053	25.027	
		6/17/2022 4:26:49PM	2	118348	51.496	25.748	
		6/17/2022 4:33:57PM	3	120333	52.378	26.189	
		6/17/2022 4:40:19PM	4	119541	52.026	26.013	
			Avg	118331	51.490	25.744	
			Std. Dev	2302			
			%RSD	1.95			
10	480-198952-I-3	6/17/2022 4:51:40PM	1	9841	3.267	1.633	
		6/17/2022 4:56:59PM	2	8372	2.614	1.307	
		6/17/2022 5:05:06PM	3	13088	4.710	2.355	
		6/17/2022 5:12:08PM	4	8361	2.609	1.305	
			Avg	9915	3.300	1.650	<5XRL
			Std. Dev	2226			
			%RSD	22.45			
11	480-198952-H-4 DU	6/17/2022 5:21:12PM	1	22448	8.870	4.435	
		6/17/2022 5:25:58PM	2	7157	2.074	1.036	
		6/17/2022 5:35:06PM	3	12672	4.525	2.263	
		6/17/2022 5:41:23PM	4	10378	3.506	1.753	
			Avg	13164	4.740	2.372	<5XRL
			Std. Dev	6590			
			%RSD	50.06			
12	480-198952-I-4	6/17/2022 5:49:48PM	1	8735	2.776	1.388	
		6/17/2022 5:55:25PM	2	6292	1.690	0.845	
		6/17/2022 6:02:46PM	3	8700	2.760	1.380	
		6/17/2022 6:09:17PM	4	7473	2.215	1.107	
			Avg	7800	2.360	1.180	<5XRL
			Std. Dev	1164			
			%RSD	14.92			
13	480-198952-H-1^40	6/17/2022 6:19:35PM	1	149365	65.282	32.641	
		6/17/2022 6:26:06PM	2	150285	65.691	32.846	
		6/17/2022 6:32:37PM	3	150828	65.932	32.966	
		6/17/2022 6:40:27PM	4	153272	67.019	33.510	
			Avg	150937	65.980	32.991	
			Std. Dev	1670			
			%RSD	1.11			
14	480-198952-H-5	6/17/2022 6:48:10PM	1	99736	43.223	21.612	
		6/17/2022 6:54:30PM	2	101460	43.990	21.995	
		6/17/2022 7:01:37PM	3	115774	50.352	25.176	
		6/17/2022 7:08:00PM	4	102663	44.524	22.262	

Denotes First Failed Samples

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	104908	45.520	22.761
			Std. Dev	7343		
			%RSD	7.00		
15	CCV	6/17/2022 7:17:42PM	1	257394	113.299	56.650
		6/17/2022 7:24:07PM	2	271875	119.736	59.868
		6/17/2022 7:31:08PM	3	265946	117.100	58.550
		6/17/2022 7:37:35PM	4	275204	121.215	60.608
			Avg	267605	117.840	58.919
			Std. Dev	7810		
			%RSD	2.92		
16	CCB	6/17/2022 7:46:35PM	1	2888	0.176	0.088
		6/17/2022 7:54:32PM	2	3814	0.588	0.294
		6/17/2022 8:01:16PM	3	3240	0.333	0.167
		6/17/2022 8:08:25PM	4	4115	0.722	0.361
			Avg	3514	0.450	0.228 <5XRL
			Std. Dev	553		
			%RSD	15.74		
17	480-198952-H-6 MS	6/17/2022 8:16:55PM	1	152895	66.852	33.426
		6/17/2022 8:22:36PM	2	139195	60.762	30.381
		6/17/2022 8:29:43PM	3	142509	62.235	31.118
		6/17/2022 8:35:51PM	4	141880	61.956	30.978
			Avg	144120	62.950	31.476
			Std. Dev	6024		
			%RSD	4.18		
18	480-198952-I-6	6/17/2022 8:46:09PM	1	32143	13.180	6.590
		6/17/2022 8:52:15PM	2	27741	11.223	5.612
		6/17/2022 8:59:00PM	3	32135	13.176	6.588
		6/17/2022 9:05:27PM	4	27184	10.976	5.488
			Avg	29801	12.140	6.070
			Std. Dev	2710		
			%RSD	9.09		
19	480-198952-H-7 DU	6/17/2022 9:15:19PM	1	43546	18.248	9.124
		6/17/2022 9:21:49PM	2	41888	17.511	8.756
		6/17/2022 9:28:27PM	3	41448	17.315	8.658
		6/17/2022 9:35:07PM	4	42364	17.723	8.861
			Avg	42311	17.700	8.850
			Std. Dev	904		
			%RSD	2.14		
20	480-198952-I-7	6/17/2022 9:44:35PM	1	43555	18.252	9.125
		6/17/2022 9:50:52PM	2	41704	17.429	8.715
		6/17/2022 9:57:38PM	3	44537	18.689	9.344
		6/17/2022 10:05:55PM	4	49561	20.922	10.461

Denotes First Failed Samples

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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)	
			Avg	44839	18.820	9.411	
			Std. Dev	3360			
			%RSD	7.49			
21	480-198952-H-8	6/17/2022 10:12:55PM	1	6899	1.959	0.980	
		6/17/2022 10:19:34PM	2	6612	1.832	0.916	
		6/17/2022 10:26:38PM	3	8893	2.846	1.423	
		6/17/2022 10:34:31PM	4	6763	1.899	0.949	
			Avg	7292	2.130	1.067	<5XRL
			Std. Dev	1074			
			%RSD	14.73			
22	480-198952-H-9	6/17/2022 10:43:18PM	1	5998	1.559	0.779	
		6/17/2022 10:48:47PM	2	4645	0.957	0.479	
		6/17/2022 10:55:24PM	3	5286	1.242	0.621	
		6/17/2022 11:02:03PM	4	5040	1.133	0.567	
			Avg	5242	1.220	0.611	<5XRL
			Std. Dev	569			
			%RSD	10.85			
23	480-198952-H-10	6/17/2022 11:11:04PM	1	24314	9.700	4.850	
		6/17/2022 11:17:47PM	2	23273	9.237	4.619	
		6/17/2022 11:23:35PM	3	26320	10.591	5.296	
		6/17/2022 11:31:25PM	4	24505	9.785	4.892	
			Avg	24603	9.830	4.914	
			Std. Dev	1266			
			%RSD	5.15			
24	480-198952-H-12	6/17/2022 11:39:50PM	1	9018	2.901	1.451	
		6/17/2022 11:46:53PM	2	8239	2.555	1.277	
		6/17/2022 11:54:22PM	3	11354	3.939	1.970	
		6/18/2022 12:00:33AM	4	8746	2.780	1.390	
			Avg	9339	3.040	1.522	<5XRL
			Std. Dev	1381			
			%RSD	14.79			
25	480-198952-H-13	6/18/2022 12:09:39AM	1	6272	1.681	0.840	
		6/18/2022 12:15:50AM	2	4859	1.053	0.526	
		6/18/2022 12:22:57AM	3	6554	1.806	0.902	
		6/18/2022 12:28:17AM	4	5043	1.134	0.567	
			Avg	5682	1.420	0.709	<5XRL
			Std. Dev	855			
			%RSD	15.05			
26	480-198952-H-14	6/18/2022 12:38:10AM	1	4680	0.973	0.487	
		6/18/2022 12:44:33AM	2	4495	0.891	0.445	
		6/18/2022 12:52:51AM	3	6498	1.781	0.891	
		6/18/2022 12:57:17AM	4	5274	1.237	0.619	

Denotes First Failed Samples

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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)	
			Avg	5237	1.220	0.610	
			Std. Dev	904			
			%RSD	17.26			
27	CCV	6/18/2022 1:07:37AM	1	266655	117.415	58.708	
		6/18/2022 1:13:59AM	2	277668	122.311	61.155	
		6/18/2022 1:20:52AM	3	271579	119.604	59.802	
		6/18/2022 1:27:20AM	4	275070	121.156	60.578	
			Avg	272743	120.120	60.061	
			Std. Dev	4764			
			%RSD	1.75			
28	CCB	6/18/2022 1:38:31AM	1	3476	0.438	0.218	
		6/18/2022 1:44:48AM	2	4372	0.836	0.418	
		6/18/2022 1:49:47AM	3	1844	0.000	0.000	
		6/18/2022 1:58:15AM	4	2760	0.120	0.060	
			Avg	3113	0.350	0.174	<5XRL
			Std. Dev	1073			
			%RSD	34.46			
29	MB	6/18/2022 2:06:15AM	1	1926	0.000	0.000	
		6/18/2022 2:13:47AM	2	2551	0.027	0.013	
		6/18/2022 2:21:16AM	3	2954	0.206	0.103	
		6/18/2022 2:25:59AM	4	1121	0.000	0.000	
			Avg	2138	0.060	0.029	<5XRL
			Std. Dev	799			
			%RSD	37.37			
30	LCS	6/18/2022 2:36:29AM	1	270025	118.913	59.457	
		6/18/2022 2:42:59AM	2	280422	123.534	61.767	
		6/18/2022 2:49:48AM	3	272369	119.955	59.978	
		6/18/2022 2:56:26AM	4	285427	125.759	62.880	
			Avg	277061	122.040	61.021	
			Std. Dev	7137			
			%RSD	2.58			
31	480-198952-H-15 MS	6/18/2022 3:05:57AM	1	144730	63.222	31.611	
		6/18/2022 3:12:00AM	2	140145	61.184	30.592	
		6/18/2022 3:19:01AM	3	141305	61.700	30.850	
		6/18/2022 3:25:18AM	4	142302	62.143	31.072	
			Avg	142120	62.060	31.031	
			Std. Dev	1950			
			%RSD	1.37			
32	480-198952-I-15	6/18/2022 3:35:20AM	1	33450	13.761	6.880	
		6/18/2022 3:41:37AM	2	32410	13.298	6.649	
		6/18/2022 3:48:37AM	3	36411	15.077	7.538	
		6/18/2022 3:55:01AM	4	31914	13.078	6.539	

Denotes First Failed Samples

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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)	
			Avg	33546	13.800	6.901	
			Std. Dev	2014			
			%RSD	6.00			
33	480-198952-H-16 DU	6/18/2022 4:06:21AM	1	12282	4.352	2.176	
		6/18/2022 4:12:39AM	2	7840	2.377	1.189	
		6/18/2022 4:19:01AM	3	8528	2.683	1.342	
		6/18/2022 4:26:48AM	4	7896	2.402	1.201	
			Avg	9136	2.950	1.477	<5XRL
			Std. Dev	2120			
			%RSD	23.21			
34	480-198952-I-16	6/18/2022 4:36:31AM	1	11045	3.802	1.901	
		6/18/2022 4:42:53AM	2	10152	3.405	1.703	
		6/18/2022 4:49:57AM	3	11035	3.798	1.899	
		6/18/2022 4:56:57AM	4	8107	2.496	1.248	
			Avg	10085	3.380	1.688	<5XRL
			Std. Dev	1383			
			%RSD	13.72			
35	480-198952-H-17	6/18/2022 5:05:41AM	1	3110	0.275	0.138	
		6/18/2022 5:13:15AM	2	3236	0.331	0.166	
		6/18/2022 5:17:51AM	3	2231	0.000	0.000	
		6/18/2022 5:27:04AM	4	3948	0.647	0.324	
			Avg	3131	0.310	0.157	<5XRL
			Std. Dev	704			
			%RSD	22.49			
36	480-198952-H-18	6/18/2022 5:34:48AM	1	2809	0.141	0.071	
		6/18/2022 5:40:41AM	2	3141	0.289	0.144	
		6/18/2022 5:49:22AM	3	3990	0.666	0.333	
		6/18/2022 5:54:25AM	4	2076	0.000	0.000	
			Avg	3004	0.270	0.137	<5XRL
			Std. Dev	794			
			%RSD	26.42			
37	480-198952-H-19	6/18/2022 6:04:03AM	1	28185	11.420	5.710	
		6/18/2022 6:10:18AM	2	21341	8.378	4.189	
		6/18/2022 6:17:45AM	3	30404	12.407	6.203	
		6/18/2022 6:24:23AM	4	22632	8.952	4.476	
			Avg	25640	10.290	5.145	<5XRL
			Std. Dev	4348			
			%RSD	16.96			
38	480-198952-H-20	6/18/2022 6:33:24AM	1	26230	10.551	5.276	
		6/18/2022 6:39:50AM	2	22908	9.075	4.537	
		6/18/2022 6:46:34AM	3	25198	10.093	5.046	
		6/18/2022 6:53:15AM	4	23195	9.203	4.601	

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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	24383	9.730	4.865
			Std. Dev	1598		
			%RSD	6.55		
39	CCV	6/18/2022 7:02:57AM	1	266504	117.348	58.674
		6/18/2022 7:09:16AM	2	282400	124.414	62.207
		6/18/2022 7:16:15AM	3	270206	118.994	59.497
		6/18/2022 7:22:42AM	4	277790	122.365	61.182
			Avg	274225	120.780	60.390
			Std. Dev	7195		
			%RSD	2.62		
40	CCB	6/18/2022 7:33:15AM	1	3062	0.254	0.127
		6/18/2022 7:40:14AM	2	4267	0.790	0.395
		6/18/2022 7:47:14AM	3	4266	0.789	0.394
		6/18/2022 7:53:23AM	4	1632	0.000	0.000
			Avg	3307	0.460	0.229 <5XRL
			Std. Dev	1253		
			%RSD	37.88		
41	480-198996-I-1 MS	6/18/2022 8:04:04AM	1	229868	101.064	50.532
		6/18/2022 8:10:23AM	2	226329	99.491	49.746
		6/18/2022 8:17:28AM	3	227748	100.122	50.061
		6/18/2022 8:24:25AM	4	229163	100.751	50.376
			Avg	228277	100.360	50.179
			Std. Dev	1570		
			%RSD	0.69		
42	480-198996-J-1	6/18/2022 8:34:10AM	1	117472	51.107	25.553
		6/18/2022 8:40:29AM	2	120692	52.538	26.269
		6/18/2022 8:47:39AM	3	117635	51.179	25.590
		6/18/2022 8:54:41AM	4	118655	51.632	25.816
			Avg	118614	51.610	25.807
			Std. Dev	1481		
			%RSD	1.25		
43	480-198996-I-2 DU	6/18/2022 9:03:22AM	1	25060	10.031	5.016
		6/18/2022 9:09:56AM	2	22045	8.691	4.346
		6/18/2022 9:16:36AM	3	27549	11.138	5.569
		6/18/2022 9:23:18AM	4	21882	8.619	4.310
			Avg	24134	9.620	4.810 <5XRL
			Std. Dev	2705		
			%RSD	11.21		
44	480-198996-J-2	6/18/2022 9:32:54AM	1	24917	9.968	4.984
		6/18/2022 9:39:36AM	2	22345	8.825	4.412
		6/18/2022 9:45:36AM	3	26735	10.776	5.388
		6/18/2022 9:53:59AM	4	23013	9.122	4.561

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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	24253	9.670	4.836
			Std. Dev	1982		
			%RSD	8.17		
45	480-198996-I-3^4	6/18/2022 10:03:18AM	1	339042	149.590	74.795
		6/18/2022 10:09:37AM	2	346066	152.712	76.356
		6/18/2022 10:16:44AM	3	349575	154.272	77.136
		6/18/2022 10:23:42AM	4	346930	153.096	76.548
			Avg	345403	152.420	76.209
			Std. Dev	4496		
			%RSD	1.30		
46	480-198996-I-4	6/18/2022 10:32:21AM	1	32629	13.396	6.698
		6/18/2022 10:38:54AM	2	31694	12.980	6.490
		6/18/2022 10:45:18AM	3	31943	13.091	6.545
		6/18/2022 10:52:18AM	4	30812	12.588	6.294
			Avg	31770	13.010	6.507
			Std. Dev	751		
			%RSD	2.36		
47	480-198996-I-5	6/18/2022 11:02:45AM	1	118457	51.545	25.772
		6/18/2022 11:09:05AM	2	120726	52.553	26.276
		6/18/2022 11:16:07AM	3	121550	52.919	26.460
		6/18/2022 11:23:07AM	4	121186	52.757	26.379
			Avg	120480	52.440	26.222
			Std. Dev	1390		
			%RSD	1.15		
48	480-198996-I-6	6/18/2022 11:31:26AM	1	77432	33.310	16.655
		6/18/2022 11:38:05AM	2	77042	33.136	16.568
		6/18/2022 11:44:58AM	3	78946	33.983	16.991
		6/18/2022 11:52:12AM	4	76101	32.718	16.359
			Avg	77381	33.290	16.643
			Std. Dev	1184		
			%RSD	1.53		
49	480-198996-I-7	6/18/2022 12:02:21PM	1	115181	50.088	25.044
		6/18/2022 12:08:40PM	2	116091	50.493	25.246
		6/18/2022 12:15:46PM	3	118689	51.648	25.824
		6/18/2022 12:22:49PM	4	118645	51.628	25.814
			Avg	117151	50.960	25.482
			Std. Dev	1789		
			%RSD	1.53		
50	480-198813-P-4	6/18/2022 12:32:38PM	1	16529	6.239	3.120
		6/18/2022 12:38:57PM	2	12754	4.562	2.281
		6/18/2022 12:45:32PM	3	15275	5.682	2.841
		6/18/2022 12:53:09PM	4	11291	3.911	1.956

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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)	
			Avg	13962	5.100	2.549	<5XRL
			Std. Dev	2374			
			%RSD	17.00			
51	CCV	6/18/2022 1:01:17PM	1	263260	115.906	57.953	
		6/18/2022 1:07:34PM	2	279082	122.939	61.469	
		6/18/2022 1:14:43PM	3	272495	120.011	60.006	
		6/18/2022 1:21:22PM	4	283632	124.961	62.481	
			Avg	274617	120.950	60.477	
			Std. Dev	8845			
			%RSD	3.22			
52	CCB	6/18/2022 1:30:34PM	1	2757	0.118	0.059	
		6/18/2022 1:38:37PM	2	3524	0.459	0.230	
		6/18/2022 1:44:38PM	3	2210	0.000	0.000	
		6/18/2022 1:51:43PM	4	1710	0.000	0.000	
			Avg	2550	0.140	0.072	<5XRL
			Std. Dev	777			
			%RSD	30.47			
53	MB	6/18/2022 2:00:31PM	1	2063	0.000	0.000	
		6/18/2022 2:08:42PM	2	3933	0.641	0.321	
		6/18/2022 2:13:42PM	3	1649	0.000	0.000	
		6/18/2022 2:21:34PM	4	2447	0.000	0.000	
			Avg	2523	0.160	0.080	<5XRL
			Std. Dev	995			
			%RSD	39.44			
54	LCS	6/18/2022 2:29:35PM	1	269951	118.880	59.440	
		6/18/2022 2:36:10PM	2	290649	128.080	64.040	
		6/18/2022 2:42:57PM	3	279711	123.219	61.609	
		6/18/2022 2:49:24PM	4	286756	126.350	63.174	
			Avg	281767	124.130	62.066	
			Std. Dev	9085			
			%RSD	3.22			
55	480-198997-I-1 MS	6/18/2022 2:58:53PM	1	148948	65.097	32.549	
		6/18/2022 3:05:11PM	2	153953	67.322	33.661	
		6/18/2022 3:12:07PM	3	157712	68.993	34.496	
		6/18/2022 3:18:31PM	4	152820	66.818	33.408	
			Avg	153358	67.060	33.528	
			Std. Dev	3608			
			%RSD	2.35			
56	480-198997-J-1	6/18/2022 3:30:12PM	1	46022	19.349	9.674	
		6/18/2022 3:35:11PM	2	42736	17.888	8.943	
		6/18/2022 3:42:32PM	3	42476	17.773	8.886	
		6/18/2022 3:49:04PM	4	42096	17.604	8.802	

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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	43333	18.150	9.076
			Std. Dev	1812		
			%RSD	4.18		
57	480-198997-I-2 DU	6/18/2022 3:58:03PM	1	83671	36.083	18.041
		6/18/2022 4:04:37PM	2	87274	37.684	18.842
		6/18/2022 4:11:20PM	3	89121	38.505	19.253
		6/18/2022 4:18:00PM	4	89196	38.538	19.269
			Avg	87316	37.700	18.851
			Std. Dev	2587		
			%RSD	2.96		
58	480-198997-J-2	6/18/2022 4:27:49PM	1	85523	36.906	18.453
		6/18/2022 4:34:40PM	2	91410	39.523	19.761
		6/18/2022 4:41:03PM	3	92564	40.036	20.018
		6/18/2022 4:48:07PM	4	90379	39.064	19.532
			Avg	89969	38.880	19.441
			Std. Dev	3096		
			%RSD	3.44		
59	480-198813-P-3	6/18/2022 4:57:22PM	1	43659	18.299	9.149
		6/18/2022 5:05:00PM	2	20643	8.068	4.034
		6/18/2022 5:11:18PM	3	32873	13.504	6.751
		6/18/2022 5:18:38PM	4	20177	7.861	3.930
			Avg	29338	11.930	5.966 <5XRL
			Std. Dev	11212		
			%RSD	38.22		
60	480-199002-N-1^4	6/18/2022 5:28:16PM	1	223602	98.279	49.140
		6/18/2022 5:35:11PM	2	223900	98.412	49.206
		6/18/2022 5:41:15PM	3	238181	104.759	52.380
		6/18/2022 5:49:14PM	4	231888	101.962	50.981
			Avg	229393	100.850	50.427
			Std. Dev	7004		
			%RSD	3.05		
61	480-198866-P-3	6/18/2022 5:57:56PM	1	36914	15.300	7.650
		6/18/2022 6:04:02PM	2	34425	14.194	7.097
		6/18/2022 6:10:44PM	3	34839	14.378	7.189
		6/18/2022 6:17:18PM	4	32007	13.119	6.560
			Avg	34546	14.250	7.124
			Std. Dev	2013		
			%RSD	5.83		
62	480-198813-Q-2	6/18/2022 6:27:14PM	1	42737	17.889	8.944
		6/18/2022 6:33:18PM	2	30204	12.318	6.158
		6/18/2022 6:40:37PM	3	39263	16.344	8.172
		6/18/2022 6:46:57PM	4	29779	12.129	6.065

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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	35496	14.670	7.335 <5XRL
			Std. Dev	6514		
			%RSD	18.35		
63	CCV	6/18/2022 6:56:36PM	1	266266	117.242	58.621
		6/18/2022 7:02:53PM	2	281569	124.044	62.022
		6/18/2022 7:09:55PM	3	270108	118.950	59.475
		6/18/2022 7:16:18PM	4	283766	125.021	62.510
			Avg	275427	121.310	60.657
			Std. Dev	8553		
			%RSD	3.11		
64	CCB	6/18/2022 7:26:37PM	1	3261	0.342	0.171
		6/18/2022 7:33:14PM	2	3206	0.318	0.159
		6/18/2022 7:40:57PM	3	2486	0.000	0.000
		6/18/2022 7:46:39PM	4	1515	0.000	0.000
			Avg	2617	0.160	0.083 <5XRL
			Std. Dev	815		
			%RSD	31.14		
65	480-198997-I-3 MS	6/18/2022 7:57:20PM	1	258295	113.699	56.850
		6/18/2022 8:03:44PM	2	256593	112.943	56.472
		6/18/2022 8:10:43PM	3	259135	114.073	57.036
		6/18/2022 8:18:08PM	4	264879	116.626	58.313
			Avg	259725	114.340	57.168
			Std. Dev	3595		
			%RSD	1.38		
66	480-198997-J-3	6/18/2022 8:28:06PM	1	167038	73.138	36.569
		6/18/2022 8:34:21PM	2	176234	77.225	38.613
		6/18/2022 8:41:24PM	3	177112	77.615	38.808
		6/18/2022 8:48:35PM	4	179917	78.862	39.431
			Avg	175075	76.710	38.355
			Std. Dev	5584		
			%RSD	3.19		
67	480-198996-I-8 DU	6/18/2022 8:57:17PM	1	73651	31.629	15.815
		6/18/2022 9:03:15PM	2	76463	32.879	16.440
		6/18/2022 9:10:14PM	3	77371	33.282	16.641
		6/18/2022 9:16:48PM	4	77948	33.539	16.770
			Avg	76358	32.830	16.417
			Std. Dev	1905		
			%RSD	2.50		
68	480-198996-J-8	6/18/2022 9:26:44PM	1	77247	33.227	16.614
		6/18/2022 9:33:18PM	2	76617	32.948	16.474
		6/18/2022 9:39:46PM	3	79146	34.071	17.036
		6/18/2022 9:47:49PM	4	79925	34.418	17.209

Instrument ID: P410730479 Wet-Chemistry

User ID:toc	Name: Total Organic Carbon
Title:Mr	Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)	
			Avg	78234	33.670	16.833	
			Std. Dev	1558			
			%RSD	1.99			
69	480-198813-P-5	6/18/2022 9:56:26PM	1	21373	8.393	4.196	
		6/18/2022 10:02:15PM	2	15496	5.780	2.890	
		6/18/2022 10:09:58PM	3	20327	7.928	3.963	
		6/18/2022 10:17:15PM	4	17572	6.703	3.352	
			Avg	18692	7.200	3.600	<5XRL
			Std. Dev	2667			
			%RSD	14.27			
70	480-198813-P-6	6/18/2022 10:25:29PM	1	19480	7.551	3.776	
		6/18/2022 10:32:26PM	2	10085	3.375	1.688	
		6/18/2022 10:40:29PM	3	20340	7.934	3.967	
		6/18/2022 10:46:28PM	4	10403	3.517	1.758	
			Avg	15077	5.590	2.797	<5XRL
			Std. Dev	5593			
			%RSD	37.10			
71	480-198813-P-8	6/18/2022 10:55:49PM	1	31644	12.958	6.479	
		6/18/2022 11:02:19PM	2	24620	9.836	4.918	
		6/18/2022 11:09:14PM	3	30246	12.336	6.168	
		6/18/2022 11:15:33PM	4	24031	9.574	4.786	
			Avg	27635	11.180	5.588	<5XRL
			Std. Dev	3872			
			%RSD	14.01			
72	480-198813-P-9	6/18/2022 11:24:55PM	1	37023	15.349	7.674	
		6/18/2022 11:31:52PM	2	32889	13.511	6.756	
		6/18/2022 11:39:23PM	3	41139	17.178	8.589	
		6/18/2022 11:45:04PM	4	32448	13.315	6.658	
			Avg	35875	14.840	7.419	<5XRL
			Std. Dev	4070			
			%RSD	11.34			
73	480-198813-P-10	6/18/2022 11:54:54PM	1	45536	19.133	9.566	
		6/19/2022 12:01:34AM	2	31456	12.874	6.437	
		6/19/2022 12:08:47AM	3	39916	16.635	8.317	
		6/19/2022 12:16:05AM	4	31636	12.954	6.477	
			Avg	37136	15.400	7.699	<5XRL
			Std. Dev	6851			
			%RSD	18.45			
74	480-198815-O-1	6/19/2022 12:24:54AM	1	14283	5.241	2.621	
		6/19/2022 12:32:24AM	2	8863	2.832	1.416	
		6/19/2022 12:38:55AM	3	12746	4.558	2.279	
		6/19/2022 12:46:37AM	4	9183	2.974	1.487	

Denotes First Failed Samples

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)	
			Avg	11269	3.900	1.951	
			Std. Dev	2671			
			%RSD	23.71			
75	CCV	6/19/2022 12:55:07AM	1	271389	119.520	59.760	
		6/19/2022 1:01:44AM	2	285896	125.967	62.984	
		6/19/2022 1:08:34AM	3	278185	122.540	61.270	
		6/19/2022 1:14:51AM	4	285665	125.865	62.932	
			Avg	280284	123.470	61.736	
			Std. Dev	6928			
			%RSD	2.47			
76	CCB	6/19/2022 1:24:22AM	1	2794	0.135	0.067	
		6/19/2022 1:32:33AM	2	4876	1.060	0.529	
		6/19/2022 1:36:47AM	3	1762	0.000	0.000	
		6/19/2022 1:44:36AM	4	1493	0.000	0.000	
			Avg	2731	0.300	0.149	<5XRL
			Std. Dev	1536			
			%RSD	56.23			
77	MB	6/19/2022 1:53:19AM	1	1821	0.000	0.000	
		6/19/2022 2:00:08AM	2	1656	0.000	0.000	
		6/19/2022 2:07:18AM	3	1760	0.000	0.000	
		6/19/2022 2:12:37AM	4	1276	0.000	0.000	
			Avg	1628	0.000	0.000	<5XRL
			Std. Dev	244			
			%RSD	15.01			
78	LCS	6/19/2022 2:23:11AM	1	276432	121.761	60.881	
		6/19/2022 2:29:22AM	2	286477	126.226	63.112	
		6/19/2022 2:36:20AM	3	278664	122.753	61.377	
		6/19/2022 2:43:02AM	4	291259	128.351	64.176	
			Avg	283208	124.770	62.386	
			Std. Dev	6882			
			%RSD	2.43			
79	480-198890-K-1	6/19/2022 2:52:38AM	1	15883	5.953	2.976	
		6/19/2022 2:58:34AM	2	8910	2.853	1.427	
		6/19/2022 3:07:01AM	3	15158	5.630	2.815	
		6/19/2022 3:11:51AM	4	8385	2.620	1.309	
			Avg	12084	4.260	2.132	<5XRL
			Std. Dev	3985			
			%RSD	32.98			
80	480-198519-H-4	6/19/2022 3:23:42AM	1	14239	5.222	2.611	
		6/19/2022 3:28:17AM	2	6048	1.581	0.791	
		6/19/2022 3:35:56AM	3	12597	4.492	2.246	
		6/19/2022 3:43:27AM	4	8594	2.713	1.356	

Denotes First Failed Samples

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)	
			Avg	10370	3.500	1.751	<5XRL
			Std. Dev	3731			
			%RSD	35.98			
81	CCV	6/19/2022 3:51:43AM	1	267549	117.813	58.906	
		6/19/2022 3:58:22AM	2	283219	124.778	62.389	
		6/19/2022 4:05:14AM	3	273473	120.446	60.222	
		6/19/2022 4:11:47AM	4	279046	122.923	61.462	
			Avg	275822	121.490	60.745	
			Std. Dev	6809			
			%RSD	2.47			
82	CCB	6/19/2022 4:22:47AM	1	4207	0.763	0.381	
		6/19/2022 4:28:09AM	2	2495	0.002	0.001	
		6/19/2022 4:34:54AM	3	2606	0.051	0.026	
		6/19/2022 4:43:19AM	4	3483	0.441	0.221	
			Avg	3198	0.310	0.157	<5XRL
			Std. Dev	805			
			%RSD	25.18			
83	CCVL	6/19/2022 4:50:44AM	1	6847	1.936	0.968	
		6/19/2022 4:58:43AM	2	10141	3.400	1.700	
		6/19/2022 5:04:02AM	3	6717	1.878	0.939	
		6/19/2022 5:12:44AM	4	8559	2.697	1.349	
			Avg	8066	2.480	1.239	<5XRL
			Std. Dev	1618			
			%RSD	20.06			

Denotes First Failed Samples

Historical Data Summary Report

For Batch 630732

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198813-P-10	MW-7A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	9.6	☐	0.512 - 10.588	☐	2.8 - 10.92
480-198813-P-10	MW-7A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	6.4	☐	0.301 - 10.899	☐	2.8 - 11.52
480-198813-P-10	MW-7A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	8.0	☐	0.403 - 10.772	☐	2.8 - 11.28
480-198813-P-3	MW-2B	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	9.1	☑	2.242 - 8.783	☑	3.2 - 8.88
480-198813-P-3	MW-2B	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	4.0	☐	2.256 - 9.044	☐	3.28 - 9
480-198813-P-3	MW-2B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	6.6	☐	2.165 - 8.96	☐	3.2 - 9
480-198813-P-4	MW-3A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	3.1	☐	0 - 14.163	☐	0 - 14.52
480-198813-P-4	MW-3A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	2.3	☐	0 - 14.702	☐	0 - 15.24
480-198813-P-4	MW-3A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	2.7	☐	0 - 14.416	☐	0 - 14.88
480-198813-P-5	MW-3B	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	4.2	☑	0 - 2.371	☑	0 - 1.92
480-198813-P-5	MW-3B	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	2.9	☑	0 - 2.318	☑	0 - 1.92
480-198813-P-5	MW-3B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	3.5	☑	0 - 2.318	☑	0 - 1.92
480-198813-P-6	MW-4A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	3.8	☑	0.812 - 3.163	☑	1.12 - 3.12
480-198813-P-6	MW-4A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	1.7	☐	0.717 - 3.208	☐	1.04 - 3.12
480-198813-P-6	MW-4A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	2.7	☐	0.708 - 3.217	☐	1.04 - 3.12
480-198813-P-8	MW-6A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	6.5	☐	0 - 80.828	☐	2.4 - 87.24
480-198813-P-8	MW-6A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	4.9	☐	0 - 81.715	☐	2.4 - 88.2
480-198813-P-8	MW-6A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	5.7	☐	0 - 81.272	☐	2.4 - 87.72
480-198813-P-9	MW-6B	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	7.7	☑	0 - 3.19	☑	0 - 2.4
480-198813-P-9	MW-6B	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	6.8	☑	0 - 2.905	☑	0 - 2.16
480-198813-P-9	MW-6B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	7.2	☑	0 - 3.056	☑	0 - 2.16
480-198813-Q-2	MW-2A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	8.9	☑	2.248 - 8.827	☑	3.28 - 8.88
480-198813-Q-2	MW-2A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	6.2	☐	2.03 - 9.195	☐	3.2 - 9
480-198813-Q-2	MW-2A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	7.6	☐	2.077 - 9.048	☐	3.2 - 9
480-198815-O-1	DO-2	5310C	TOC Result 1	Total/NA	mg/L	4	1.0	2.6	☐	0 - 2.95	☑	0 - 2.04
480-198815-O-1	DO-2	5310C	TOC Result 2	Total/NA	mg/L	4	1.0	1.4	☐	0 - 3.302	☐	0 - 2.04
480-198815-O-1	DO-2	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	4	1.0	2.0	☐	0 - 3.209	☐	0 - 2.04
480-198866-P-3	SW-3	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	7.7	☑	1.094 - 6.956	☑	2.16 - 6.6
480-198866-P-3	SW-3	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	7.1	☐	1.265 - 7.235	☑	2.32 - 6.6
480-198866-P-3	SW-3	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	7.4	☑	1.249 - 7.026	☑	2.24 - 6.6
480-198890-K-1	MW-10C-U-R	9060A	Total Organic Carbon	Total/NA	mg/L	8	1.0	2.1	☑	3.029 - 8.596	☑	3.52 - 8.88
480-198952-H-1 ^40	Leachate	9060A	Total Organic Carbon	Total/NA	mg/L	8	40.0	1320	☐	0 - 3165.827	☐	216.8 - 2520
480-198952-H-10	MW-9	9060A	Total Organic Carbon	Total/NA	mg/L	8	1.0	4.9	☐	2.986 - 7.739	☐	3.12 - 7.8
480-198952-H-13	MW-26	9060A	Total Organic Carbon	Total/NA	mg/L	8	1.0	ND	☐	0 - 10.736	☑	1.76 - 9.12

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Historical Data Summary Report

For Batch 630732

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-198952-H-14	NE-6	9060A	Total Organic Carbon	Total/NA	mg/L	8	1.0	ND	☐	0 - 3.719	☐	0 - 3.6
480-198952-H-17	FIELD BLANK	9060A	Total Organic Carbon	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-198952-H-18	Rinsate	9060A	Total Organic Carbon	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-198952-H-19	NE-3	9060A	Total Organic Carbon	Total/NA	mg/L	5	1.0	5.1	☐	1.613 - 11.707	☐	3.84 - 11.76
480-198952-H-20	NE-4	9060A	Total Organic Carbon	Total/NA	mg/L	5	1.0	4.9	☐	0 - 14.29	☐	3.84 - 13.92
480-198952-H-5	MW-18	9060A	Total Organic Carbon	Total/NA	mg/L	8	1.0	22.8	☐	13.516 - 26.609	☐	13.52 - 27.12
480-198952-H-8	MW-7	9060A	Total Organic Carbon	Total/NA	mg/L	8	1.0	1.1	☐	0 - 2.478	☐	0 - 1.8
480-198952-H-9	MW-8	9060A	Total Organic Carbon	Total/NA	mg/L	8	1.0	ND	☐	0 - 5.491	☐	0 - 5.76
480-198952-I-15	PZ-2	9060A	Total Organic Carbon	Total/NA	mg/L	5	1.0	6.9	☑	0.007 - 5.513	☑	1.52 - 5.4
480-198952-I-16	DUPLICATE	9060A	Total Organic Carbon	Total/NA	mg/L	8	1.0	1.7	☐	0 - 12.522	☐	0 - 10.8
480-198952-I-2	MW-12	9060A	Total Organic Carbon	Total/NA	mg/L	8	1.0	3.4	☐	1.673 - 4.252	☐	1.76 - 4.08
480-198952-I-3	MW-13R	9060A	Total Organic Carbon	Total/NA	mg/L	8	1.0	1.7	☐	0 - 7.351	☐	0 - 7.8
480-198952-I-4	MW-14	9060A	Total Organic Carbon	Total/NA	mg/L	8	1.0	1.2	☐	0 - 2.087	☐	0 - 1.56
480-198952-I-6	MW-4	9060A	Total Organic Carbon	Total/NA	mg/L	8	1.0	6.1	☐	2.707 - 11.343	☐	3.76 - 11.28
480-198952-I-7	MW-6	9060A	Total Organic Carbon	Total/NA	mg/L	8	1.0	9.4	☐	3.516 - 11.859	☐	4.72 - 12.24
480-198996-I-3 ^4	10-152-1R	9060A	Total Organic Carbon	Total/NA	mg/L	8	4.0	305	☐	0 - 468.479	☐	2.4 - 388.8
480-198996-I-4	10-152-2R	9060A	Total Organic Carbon	Total/NA	mg/L	8	1.0	6.5	☐	1.991 - 9.284	☐	3.2 - 8.64
480-198996-I-5	10-185-1	9060A	Total Organic Carbon	Total/NA	mg/L	8	1.0	26.2	☐	0 - 33.384	☐	0.96 - 33.84
480-198996-I-6	96-185-2	9060A	Total Organic Carbon	Total/NA	mg/L	8	1.0	16.6	☐	0 - 50.763	☐	10.56 - 52.08
480-198996-I-7	DUP@08-147-2R	9060A	Total Organic Carbon	Total/NA	mg/L	8	1.0	25.5	☐	0 - 61.31	☐	11.76 - 48.6
480-198996-J-1	08-147-1R	9060A	Total Organic Carbon	Total/NA	mg/L	8	1.0	25.8	☐	0 - 55.012	☐	10.48 - 50.52
480-198996-J-2	08-147-3	9060A	Total Organic Carbon	Total/NA	mg/L	8	1.0	4.8	☐	0 - 16.242	☐	2.56 - 15.24
480-198996-J-8	20-147-2R	9060A	Total Organic Carbon	Total/NA	mg/L	5	1.0	16.8	☐	13.581 - 18.299	☐	11.76 - 20.4
480-198997-J-1	89-167-3	9060A	Total Organic Carbon	Total/NA	mg/L	8	1.0	9.1	☐	0 - 88.635	☑	9.12 - 94.8
480-198997-J-2	94R	9060A	Total Organic Carbon	Total/NA	mg/L	8	1.0	19.4	☐	0 - 126.889	☐	15.28 - 118.08
480-198997-J-3	PELA-4	9060A	Total Organic Carbon	Total/NA	mg/L	8	1.0	38.4	☐	23.752 - 40.673	☐	23.68 - 47.04
480-199002-N-1 ^4	PLANT INTAKE	9060A	Total Organic Carbon	Total/NA	mg/L	8	4.0	202	☐	87.812 - 246.188	☐	100.8 - 256.8

USEPA_SDWIS_1300033

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629307 Batch Start Date: 06/06/22 23:20 Batch Analyst: Rials, Sidney T

Batch Method: 310.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Minerals 00024	WC_50ppmALK 00188		
ICB 480-629307/8		310.2		2 mL	2 mL				
ICV 480-629307/13		310.2		2 mL	2 mL	# mL			
CCB 480-629307/14		310.2		2 mL	2 mL				
CCV 480-629307/15		310.2		2 mL	2 mL		# mL		
MB 480-629307/17		310.2		2 mL	2 mL				
CCB 480-629307/18		310.2		2 mL	2 mL				
CCV 480-629307/19		310.2		2 mL	2 mL		# mL		
LCS 480-629307/20		310.2		2 mL	2 mL		# mL		
MB 480-629307/21		310.2		2 mL	2 mL				
CCB 480-629307/26		310.2		2 mL	2 mL				
CCV 480-629307/27		310.2		2 mL	2 mL		# mL		
CCB 480-629307/49		310.2		2 mL	2 mL				
CCV 480-629307/53		310.2		2 mL	2 mL		# mL		
MB 480-629307/56		310.2		2 mL	2 mL				
CCB 480-629307/57		310.2		2 mL	2 mL				
CCV 480-629307/58		310.2		2 mL	2 mL		# mL		
LCS 480-629307/59		310.2		2 mL	2 mL		# mL		
480-198720-L-2	CD-1RA	310.2	T	2 mL	2 mL				
480-198720-H-3	MW-1B	310.2	T	2 mL	2 mL				
MB 480-629307/62		310.2		2 mL	2 mL				
CCB 480-629307/63		310.2		2 mL	2 mL				
CCV 480-629307/64		310.2		2 mL	2 mL		# mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629307 Batch Start Date: 06/06/22 23:20 Batch Analyst: Rials, Sidney T

Batch Method: 310.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Minerals 00024	WC_50ppmALK 00188		
LCS 480-629307/65		310.2		2 mL	2 mL		# mL		
MB 480-629307/66		310.2		2 mL	2 mL				
480-198720-J-4	DUP CD-1RA	310.2	T	2 mL	2 mL				
CCB 480-629307/68		310.2		2 mL	2 mL				
CCV 480-629307/69		310.2		2 mL	2 mL		# mL		
CCV 480-629307/78		310.2		2 mL	2 mL		# mL		
MB 480-629307/80		310.2		2 mL	2 mL				
CCB 480-629307/82		310.2		2 mL	2 mL				
CCV 480-629307/83		310.2		2 mL	2 mL		# mL		
LCS 480-629307/84		310.2		2 mL	2 mL		# mL		
MB 480-629307/85		310.2		2 mL	2 mL				
480-198720-L-1	CD-1	310.2	T	2 mL	2 mL				
CCB 480-629307/87		310.2		2 mL	2 mL				
CCV 480-629307/88		310.2		2 mL	2 mL		# mL		

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 630965 Batch Start Date: 06/21/22 11:59 Batch Analyst: Rials, Sidney T

Batch Method: 310.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Alk 1000 ICV 00042	Minerals 00024	WC_50ppmALK 00189	
ICB 480-630965/8		310.2		2 mL	2 mL				
ICV 480-630965/13		310.2		2 mL	2 mL		# mL		
CCB 480-630965/18		310.2		2 mL	2 mL				
CCV 480-630965/19		310.2		2 mL	2 mL			# mL	
MB 480-630965/21		310.2		2 mL	2 mL				
CCB 480-630965/27		310.2		2 mL	2 mL				
CCV 480-630965/28		310.2		2 mL	2 mL			# mL	
LCS 480-630965/29		310.2		2 mL	2 mL			# mL	
MB 480-630965/30		310.2		2 mL	2 mL				
480-198813-J-1	MW-1A	310.2	T	2 mL	2 mL				
480-198813-J-2	MW-2A	310.2	T	2 mL	2 mL				
480-198813-J-3	MW-2B	310.2	T	2 mL	2 mL				
CCB 480-630965/37		310.2		2 mL	2 mL				
CCV 480-630965/38		310.2		2 mL	2 mL			# mL	
LCS 480-630965/39		310.2		2 mL	2 mL			# mL	
MB 480-630965/40		310.2		2 mL	2 mL				
480-198813-J-5	MW-3B	310.2	T	2 mL	2 mL				
480-198813-J-6	MW-4A	310.2	T	2 mL	2 mL				
480-198813-J-7	MW-5A	310.2	T	2 mL	2 mL				
480-198813-J-8	MW-6A	310.2	T	2 mL	2 mL				
480-198813-J-9	MW-6B	310.2	T	2 mL	2 mL				
CCB 480-630965/46		310.2		2 mL	2 mL				
CCV 480-630965/47		310.2		2 mL	2 mL			# mL	
480-198813-J-10	MW-7A	310.2	T	2 mL	2 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 630965 Batch Start Date: 06/21/22 11:59 Batch Analyst: Rials, Sidney T

Batch Method: 310.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Alk 1000 ICV 00042	Minerals 00024	WC_50ppmALK 00189	
CCB 480-630965/57		310.2		2 mL	2 mL				
CCV 480-630965/58		310.2		2 mL	2 mL			# mL	
CCB 480-630965/61		310.2		2 mL	2 mL				
CCV 480-630965/62		310.2		2 mL	2 mL			# mL	
MB 480-630965/64		310.2		2 mL	2 mL				
CCB 480-630965/73		310.2		2 mL	2 mL				
CCV 480-630965/74		310.2		2 mL	2 mL			# mL	
LCS 480-630965/75		310.2		2 mL	2 mL			# mL	
MB 480-630965/76		310.2		2 mL	2 mL				
480-198720-K-1 MS	CD-1	310.2	T	2 mL	2 mL	0.04 mL			
480-198720-K-1 MSD	CD-1	310.2	T	2 mL	2 mL	0.04 mL			
480-198720-K-1	CD-1	310.2	T	2 mL	2 mL				
CCB 480-630965/85		310.2		2 mL	2 mL				
CCV 480-630965/86		310.2		2 mL	2 mL			# mL	
LCS 480-630965/87		310.2		2 mL	2 mL			# mL	
MB 480-630965/88		310.2		2 mL	2 mL				
480-198813-J-4	MW-3A	310.2	T	2 mL	2 mL				
CCB 480-630965/94		310.2		2 mL	2 mL				
CCV 480-630965/95		310.2		2 mL	2 mL			# mL	
CCB 480-630965/212		310.2		2 mL	2 mL				
CCV 480-630965/213		310.2		2 mL	2 mL			# mL	
MB 480-630965/215		310.2		2 mL	2 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 630965 Batch Start Date: 06/21/22 11:59 Batch Analyst: Rials, Sidney T

Batch Method: 310.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Alk 1000 ICV 00042	Minerals 00024	WC_50ppmALK 00189	
CCB 480-630965/218		310.2		2 mL	2 mL				
CCV 480-630965/219		310.2		2 mL	2 mL			# mL	
LCS 480-630965/220		310.2		2 mL	2 mL			# mL	
MB 480-630965/221		310.2		2 mL	2 mL				
CCB 480-630965/225		310.2		2 mL	2 mL				
CCV 480-630965/226		310.2		2 mL	2 mL			# mL	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629693 Batch Start Date: 06/11/22 14:15 Batch Analyst: Laxton, Eric J

Batch Method: Distill/CN Batch End Date: 06/11/22 14:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	10ppm CN MS 00235	400 LCS comp 00006	CN LCS 250 00285	
MB 480-629693/1		Distill/CN, 335.4		6 mL	6 mL				
LCS 480-629693/2		Distill/CN, 335.4		6 mL	6 mL		6 mL		
LCS 480-629693/3		Distill/CN, 335.4		6 mL	6 mL			6 mL	
480-198720-F-1	CD-1	Distill/CN, 335.4	T	6 mL	6 mL				
480-198720-F-2	CD-1RA	Distill/CN, 335.4	T	6 mL	6 mL				
480-198720-F-3	MW-1B	Distill/CN, 335.4	T	6 mL	6 mL				
480-198720-F-3 MS	MW-1B	Distill/CN, 335.4	T	6 mL	6 mL	60 uL			

Batch Notes	
Distillation Start Time	06/11/2022 14:15
Distillation End Time	06/11/2022 14:45

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629819 Batch Start Date: 06/13/22 10:42 Batch Analyst: Thomas, Christine L

Batch Method: 335.4 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CN CCV 01701			
CCV 480-629819/1		335.4		5 mL	5 mL	# mL			
CCB 480-629819/2		335.4		5 mL	5 mL				
MB 480-629693/1-A		335.4		5 mL	5 mL				
LCS 480-629693/2-A		335.4		5 mL	5 mL				
LCS 480-629693/3-A		335.4		5 mL	5 mL				
CCV 480-629819/13		335.4		5 mL	5 mL	# mL			
CCB 480-629819/14		335.4		5 mL	5 mL				
480-198720-F-1-A	CD-1	335.4	T	5 mL	5 mL				
480-198720-F-2-A	CD-1RA	335.4	T	5 mL	5 mL				
CCV 480-629819/25		335.4		5 mL	5 mL	# mL			
CCB 480-629819/26		335.4		5 mL	5 mL				
480-198720-F-3-A	MW-1B	335.4	T	5 mL	5 mL				
480-198720-F-3-B MS	MW-1B	335.4	T	5 mL	5 mL				
CCV 480-629819/29		335.4		5 mL	5 mL	# mL			
CCB 480-629819/30		335.4		5 mL	5 mL	# mL			

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 630206 Batch Start Date: 06/15/22 15:30 Batch Analyst: Laxton, Eric J

Batch Method: Distill/CN Batch End Date: 06/15/22 16:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	400 LCS comp 00007	CN LCS 250 00286		
MB 480-630206/1		Distill/CN, 335.4		6 mL	6 mL				
LCS 480-630206/2		Distill/CN, 335.4		6 mL	6 mL	6 mL			
LCS 480-630206/3		Distill/CN, 335.4		6 mL	6 mL		6 mL		
480-198720-F-4	DUP CD-1RA	Distill/CN, 335.4	T	6 mL	6 mL				

Batch Notes	
Distillation Start Time	06/15/2022 15:30
Distillation End Time	06/15/2022 16:00

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 630238 Batch Start Date: 06/15/22 18:06 Batch Analyst: Thomas, Christine L

Batch Method: 335.4 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CN CCV 01703			
CCV 480-630238/1		335.4		5 mL	5 mL	# mL			
CCB 480-630238/2		335.4		5 mL	5 mL				
MB 480-630206/1-A		335.4		5 mL	5 mL				
LCS 480-630206/2-A		335.4		5 mL	5 mL				
LCS 480-630206/3-A		335.4		5 mL	5 mL				
CCV 480-630238/13		335.4		5 mL	5 mL	# mL			
CCB 480-630238/14		335.4		5 mL	5 mL				
480-198720-F-4-C	DUP CD-1RA	335.4	T	5 mL	5 mL				
CCV 480-630238/25		335.4		5 mL	5 mL	# mL			
CCB 480-630238/26		335.4		5 mL	5 mL				
CCV 480-630238/29		335.4		5 mL	5 mL	# mL			
CCB 480-630238/30		335.4		5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 630398 Batch Start Date: 06/16/22 21:15 Batch Analyst: Laxton, Eric J

Batch Method: Distill/CN Batch End Date: 06/16/22 21:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CN LCS 250 00286			
MB 480-630398/1		Distill/CN, 335.4		6 mL	6 mL				
LCS 480-630398/2		Distill/CN, 335.4		6 mL	6 mL	6 mL			
480-198813-E-1	MW-1A	Distill/CN, 335.4	T	6 mL	6 mL				
480-198813-E-2	MW-2A	Distill/CN, 335.4	T	6 mL	6 mL				
480-198813-E-3	MW-2B	Distill/CN, 335.4	T	6 mL	6 mL				
480-198813-E-4	MW-3A	Distill/CN, 335.4	T	6 mL	6 mL				
480-198813-E-5	MW-3B	Distill/CN, 335.4	T	6 mL	6 mL				
480-198813-E-6	MW-4A	Distill/CN, 335.4	T	6 mL	6 mL				
480-198813-E-7	MW-5A	Distill/CN, 335.4	T	6 mL	6 mL				
480-198813-E-8	MW-6A	Distill/CN, 335.4	T	6 mL	6 mL				
480-198813-E-9	MW-6B	Distill/CN, 335.4	T	6 mL	6 mL				

Batch Notes	
Distillation Start Time	06/16/2022 21:15
Distillation End Time	06/16/2022 21:45

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 630471 Batch Start Date: 06/17/22 08:46 Batch Analyst: Thomas, Christine L

Batch Method: 335.4 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CN CCV 01705			
CCV 480-630471/1		335.4		5 mL	5 mL	# mL			
CCB 480-630471/2		335.4		5 mL	5 mL				
MB 480-630398/1-A		335.4		5 mL	5 mL				
LCS 480-630398/2-A		335.4		5 mL	5 mL				
CCV 480-630471/13		335.4		5 mL	5 mL	# mL			
CCB 480-630471/14		335.4		5 mL	5 mL				
480-198813-E-1-B	MW-1A	335.4	T	5 mL	5 mL				
480-198813-E-2-C	MW-2A	335.4	T	5 mL	5 mL				
480-198813-E-3-A	MW-2B	335.4	T	5 mL	5 mL				
480-198813-E-4-A	MW-3A	335.4	T	5 mL	5 mL				
480-198813-E-5-A	MW-3B	335.4	T	5 mL	5 mL				
480-198813-E-6-A	MW-4A	335.4	T	5 mL	5 mL				
480-198813-E-7-A	MW-5A	335.4	T	5 mL	5 mL				
480-198813-E-8-A	MW-6A	335.4	T	5 mL	5 mL				
480-198813-E-9-A	MW-6B	335.4	T	5 mL	5 mL				
CCV 480-630471/25		335.4		5 mL	5 mL	# mL			
CCB 480-630471/26		335.4		5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 630516 Batch Start Date: 06/17/22 10:30 Batch Analyst: Laxton, Eric J

Batch Method: Distill/CN Batch End Date: 06/17/22 11:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	10ppm CN MS 00236	400 LCS comp 00007	CN LCS 250 00286	
MB 480-630516/1		Distill/CN, 335.4		6 mL	6 mL				
LCS 480-630516/2		Distill/CN, 335.4		6 mL	6 mL		6 mL		
LCS 480-630516/3		Distill/CN, 335.4		6 mL	6 mL			6 mL	
480-198813-E-10	MW-7A	Distill/CN, 335.4	T	6 mL	6 mL				
480-198813-E-10 MS	MW-7A	Distill/CN, 335.4	T	6 mL	6 mL	60 uL			

Batch Notes	
Distillation Start Time	06/17/2022 10:30
Distillation End Time	06/17/2022 11:00

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 630539 Batch Start Date: 06/17/22 12:58 Batch Analyst: Thomas, Christine L

Batch Method: 335.4 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CN CCV 01705			
CCV 480-630539/1		335.4		5 mL	5 mL	# mL			
CCB 480-630539/2		335.4		5 mL	5 mL				
MB 480-630516/1-A		335.4		5 mL	5 mL				
LCS 480-630516/2-A		335.4		5 mL	5 mL				
LCS 480-630516/3-A		335.4		5 mL	5 mL				
480-198813-E-10 -A	MW-7A	335.4	T	5 mL	5 mL				
480-198813-E-10 -B MS	MW-7A	335.4	T	5 mL	5 mL				
CCV 480-630539/13		335.4		5 mL	5 mL	# mL			
CCB 480-630539/14		335.4		5 mL	5 mL				
CCV 480-630539/25		335.4		5 mL	5 mL	# mL			
CCB 480-630539/26		335.4		5 mL	5 mL				
CCV 480-630539/29		335.4		5 mL	5 mL	# mL			
CCB 480-630539/30		335.4		5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629188 Batch Start Date: 06/08/22 08:47 Batch Analyst: Thomas, Christine L

Batch Method: 350.1 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	NH3 CCV 01557	WC_NH3_MS 00485		
CCV 480-629188/1		350.1		5 mL	5 mL	# mL			
CCB 480-629188/2		350.1		5 mL	5 mL				
MB 480-629188/3		350.1		5 mL	5 mL				
LCS 480-629188/4		350.1		5 mL	5 mL	# mL			
480-198720-C-1	CD-1	350.1	T	5 mL	5 mL				
480-198720-C-2	CD-1RA	350.1	T	5 mL	5 mL				
480-198720-C-3	MW-1B	350.1	T	5 mL	5 mL				
CCV 480-629188/13		350.1		5 mL	5 mL	# mL			
CCB 480-629188/14		350.1		5 mL	5 mL				
480-198720-C-4	DUP CD-1RA	350.1	T	5 mL	5 mL				
480-198720-C-4 DU	DUP CD-1RA	350.1	T	5 mL	5 mL				
480-198720-C-4 MS	DUP CD-1RA	350.1	T	5 mL	5 mL		10 uL		
CCV 480-629188/25		350.1		5 mL	5 mL	# mL			
CCB 480-629188/26		350.1		5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629604 Batch Start Date: 06/10/22 08:50 Batch Analyst: Thomas, Christine L

Batch Method: 350.1 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	NH3 CCV 01559	WC_NH3_MS 00485		
CCV 480-629604/1		350.1		5 mL	5 mL	# mL			
CCB 480-629604/2		350.1		5 mL	5 mL				
MB 480-629604/3		350.1		5 mL	5 mL				
LCS 480-629604/4		350.1		5 mL	5 mL	# mL			
480-198813-C-1	MW-1A	350.1	T	5 mL	5 mL				
480-198813-C-1 MS	MW-1A	350.1	T	5 mL	5 mL		10 uL		
480-198813-C-2 ^5	MW-2A	350.1	T	5 mL	5 mL				
480-198813-C-4	MW-3A	350.1	T	5 mL	5 mL				
CCV 480-629604/13		350.1		5 mL	5 mL	# mL			
CCB 480-629604/14		350.1		5 mL	5 mL				
480-198813-C-5	MW-3B	350.1	T	5 mL	5 mL				
480-198813-C-5 DU	MW-3B	350.1	T	5 mL	5 mL				
480-198813-C-5 MS	MW-3B	350.1	T	5 mL	5 mL		10 uL		
480-198813-C-6	MW-4A	350.1	T	5 mL	5 mL				
480-198813-C-7	MW-5A	350.1	T	5 mL	5 mL				
480-198813-C-8	MW-6A	350.1	T	5 mL	5 mL				
480-198813-C-9	MW-6B	350.1	T	5 mL	5 mL				
480-198813-C-10	MW-7A	350.1	T	5 mL	5 mL				
CCV 480-629604/25		350.1		5 mL	5 mL	# mL			
CCB 480-629604/26		350.1		5 mL	5 mL				
CCV 480-629604/49		350.1		5 mL	5 mL	# mL			
CCB 480-629604/50		350.1		5 mL	5 mL				
MB 480-629604/51		350.1		5 mL	5 mL				
LCS 480-629604/52		350.1		5 mL	5 mL	# mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629604 Batch Start Date: 06/10/22 08:50 Batch Analyst: Thomas, Christine L

Batch Method: 350.1 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	NH3 CCV 01559	WC_NH3_MS 00485		
CCV 480-629604/61		350.1		5 mL	5 mL	# mL			
CCB 480-629604/62		350.1		5 mL	5 mL				
480-198813-C-3	MW-2B	350.1	T	5 mL	5 mL				
CCV 480-629604/73		350.1		5 mL	5 mL	# mL			
CCB 480-629604/74		350.1		5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629708 Batch Start Date: 06/12/22 12:55 Batch Analyst: Giglia, Elizabeth A

Batch Method: 351.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TKN1000ppmSTD 00017			
MB 480-629708/1		351.2, 351.2		25 mL	25 mL				
LCS 480-629708/2		351.2, 351.2		25 mL	25 mL	0.0625 mL			
480-198720-C-3	MW-1B	351.2, 351.2	T	25 mL	25 mL				

Batch Notes	
Block Digestor ID	1
Block Digestion Start time	1123
Oven, Bath or Block Temperature 1	260 Degrees C
Block Digestion End time	1353
Oven, Bath or Block Temperature 2	260 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629788 Batch Start Date: 06/13/22 06:26 Batch Analyst: Thomas, Christine L

Batch Method: 351.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	TKN CCV 01406				
CCV 480-629788/1		351.2		2 mL	# mL				
CCB 480-629788/2		351.2		2 mL					
MB 480-629708/1-A		351.2		2 mL					
CCV 480-629788/6		351.2		2 mL	# mL				
CCB 480-629788/7		351.2		2 mL					
CCV 480-629788/35		351.2		2 mL	# mL				
CCB 480-629788/36		351.2		2 mL					
480-198720-C-3-A	MW-1B	351.2	T	2 mL					
CCV 480-629788/41		351.2		2 mL	# mL				
CCB 480-629788/42		351.2		2 mL					
CCV 480-629788/45		351.2		2 mL	# mL				
CCB 480-629788/46		351.2		2 mL					
LCS 480-629708/2-A		351.2		2 mL					
CCV 480-629788/57		351.2		2 mL	# mL				
CCB 480-629788/58		351.2		2 mL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629826 Batch Start Date: 06/13/22 10:00 Batch Analyst: Giglia, Elizabeth A

Batch Method: 351.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TKN1000ppmSTD 00017			
MB 480-629826/1		351.2, 351.2		25 mL	25 mL				
LCS 480-629826/2		351.2, 351.2		25 mL	25 mL	0.0625 mL			
480-198813-C-1	MW-1A	351.2, 351.2	T	25 mL	25 mL				
480-198813-C-1 DU	MW-1A	351.2, 351.2	T	25 mL	25 mL				
480-198813-C-2	MW-2A	351.2, 351.2	T	25 mL	25 mL				
480-198813-C-2 MS	MW-2A	351.2, 351.2	T	25 mL	25 mL	0.025 mL			
480-198813-C-3	MW-2B	351.2, 351.2	T	25 mL	25 mL				
480-198813-C-4	MW-3A	351.2, 351.2	T	25 mL	25 mL				
480-198813-C-5	MW-3B	351.2, 351.2	T	25 mL	25 mL				
480-198813-C-6	MW-4A	351.2, 351.2	T	25 mL	25 mL				
480-198813-C-7	MW-5A	351.2, 351.2	T	25 mL	25 mL				
480-198813-C-8	MW-6A	351.2, 351.2	T	25 mL	25 mL				
480-198813-C-9	MW-6B	351.2, 351.2	T	25 mL	25 mL				
480-198813-C-10	MW-7A	351.2, 351.2	T	25 mL	25 mL				

Batch Notes	
Block Digestor ID	1
Block Digestion Start time	1001
Oven, Bath or Block Temperature 1	160 Degrees C
Block Digestion End time	1231
Oven, Bath or Block Temperature 2	370 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629963 Batch Start Date: 06/14/22 08:33 Batch Analyst: Thomas, Christine L

Batch Method: 351.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	TKN CCV 01407				
CCV 480-629963/1		351.2		2 mL	# mL				
CCB 480-629963/2		351.2		2 mL					
MB 480-629826/1-A		351.2		2 mL					
LCS 480-629826/2-A		351.2		2 mL					
CCV 480-629963/7		351.2		2 mL	# mL				
CCB 480-629963/8		351.2		2 mL					
480-198813-C-1-A	MW-1A	351.2	T	2 mL					
480-198813-C-1-B DU	MW-1A	351.2	T	2 mL					
480-198813-C-3-A	MW-2B	351.2	T	2 mL					
480-198813-C-4-A	MW-3A	351.2	T	2 mL					
480-198813-C-5-A	MW-3B	351.2	T	2 mL					
480-198813-C-6-A	MW-4A	351.2	T	2 mL					
CCV 480-629963/17		351.2		2 mL	# mL				
CCB 480-629963/18		351.2		2 mL					
480-198813-C-7-A	MW-5A	351.2	T	2 mL					
480-198813-C-8-A	MW-6A	351.2	T	2 mL					
480-198813-C-9-A	MW-6B	351.2	T	2 mL					
480-198813-C-10-A	MW-7A	351.2	T	2 mL					
CCV 480-629963/28		351.2		2 mL	# mL				
CCB 480-629963/29		351.2		2 mL					
CCV 480-629963/42		351.2		2 mL	# mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629963 Batch Start Date: 06/14/22 08:33 Batch Analyst: Thomas, Christine L

Batch Method: 351.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	TKN CCV 01407				
CCB 480-629963/43		351.2		2 mL					
480-198813-C-2-A	MW-2A	351.2	T	2 mL					
480-198813-C-2-B MS	MW-2A	351.2	T	2 mL					
CCV 480-629963/53		351.2		2 mL	# mL				
CCB 480-629963/54		351.2		2 mL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 630167 Batch Start Date: 06/15/22 12:38 Batch Analyst: Giglia, Elizabeth A

Batch Method: 351.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TKN1000ppmSTD 00017			
MB 480-630167/1		351.2, 351.2		25 mL	25 mL				
LCS 480-630167/2		351.2, 351.2		25 mL	25 mL	0.0625 mL			
480-198720-C-1	CD-1	351.2, 351.2	T	25 mL	25 mL				
480-198720-C-2	CD-1RA	351.2, 351.2	T	25 mL	25 mL				
480-198720-C-4	DUP CD-1RA	351.2, 351.2	T	25 mL	25 mL				

Batch Notes	
Block Digestor ID	2
Block Digestion Start time	940
Oven, Bath or Block Temperature 1	160 Degrees C
Block Digestion End time	1210
Oven, Bath or Block Temperature 2	370 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 630270 Batch Start Date: 06/16/22 07:33 Batch Analyst: Thomas, Christine L

Batch Method: 351.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	TKN CCV 01409	TKN ICV 00288			
ICV 480-630270/3		351.2		2 mL		# mL			
ICB 480-630270/4		351.2		2 mL					
CCV 480-630270/5		351.2		2 mL	# mL				
CCB 480-630270/6		351.2		2 mL					
MB 480-630167/1-A		351.2		2 mL					
LCS 480-630167/2-A		351.2		2 mL					
CCV 480-630270/10		351.2		2 mL	# mL				
CCB 480-630270/11		351.2		2 mL					
480-198720-C-1-B	CD-1	351.2	T	2 mL					
480-198720-C-2-B	CD-1RA	351.2	T	2 mL					
480-198720-C-4-B	DUP CD-1RA	351.2	T	2 mL					
CCV 480-630270/22		351.2		2 mL	# mL				
CCB 480-630270/23		351.2		2 mL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 618704 Batch Start Date: 03/22/22 17:20 Batch Analyst: Stone, Chandler S

Batch Method: 410.4 Batch End Date: 03/22/22 19:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ChlorideScrn	COD STD 00055		
IC 480-618704/1		410.4		100 mL	100 mL	N			
IC 480-618704/2		410.4		100 mL	100 mL	N	0.5 mL		
IC 480-618704/3		410.4		100 mL	100 mL	N	1 mL		
IC 480-618704/4		410.4		100 mL	100 mL	N	2.5 mL		
IC 480-618704/5		410.4		100 mL	100 mL	N	5 mL		
IC 480-618704/6		410.4		100 mL	100 mL	N	7.5 mL		
IC 480-618704/7		410.4		100 mL	100 mL	N	10 mL		
IC 480-618704/8		410.4		100 mL	100 mL	N	12.5 mL		
IC 480-618704/9		410.4		100 mL	100 mL	N	15 mL		

Batch Notes	
Temperature - Uncorrected - Start	150.1 Degrees C
Temperature - Corrected - Start	150.0 Degrees C
Digestion Start Time	03/22/2022 17:20
Digestion End Time	03/22/2022 19:20
Temperature - Uncorrected - End	150.1 Degrees C
Temperature - Corrected - End	150.0 Degrees C

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 630049 Batch Start Date: 06/14/22 18:00 Batch Analyst: Stone, Chandler S

Batch Method: 410.4 Batch End Date: 06/14/22 22:19

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ChlorideScrn	COD 25 PPM 00083	COD 75 PPM 00046	COD STD 00054
CCV 480-630049/1		410.4		2 mL	2 mL	N		2 mL	
CCB 480-630049/2		410.4		2 mL	2 mL	N			
MB 480-630049/3		410.4		2 mL	2 mL	N			
LCS 480-630049/4		410.4		2 mL	2 mL	N	2 mL		
480-198720-C-4	DUP CD-1RA	410.4	T	2 mL	2 mL	N			
480-198720-C-4 MS	DUP CD-1RA	410.4	T	2 mL	2 mL	N			0.1 mL
480-198720-C-4 MSD	DUP CD-1RA	410.4	T	2 mL	2 mL	N			0.1 mL
480-198720-C-1	CD-1	410.4	T	2 mL	2 mL	N			
480-198720-C-2	CD-1RA	410.4	T	2 mL	2 mL	N			
480-198720-C-3	MW-1B	410.4	T	2 mL	2 mL	N			
CCV 480-630049/13		410.4		2 mL	2 mL	N		2 mL	
CCB 480-630049/14		410.4		2 mL	2 mL	N			
CCV 480-630049/25		410.4		2 mL	2 mL	N		2 mL	
CCB 480-630049/26		410.4		2 mL	2 mL	N			
MB 480-630049/27		410.4		2 mL	2 mL	N			
LCS 480-630049/28		410.4		2 mL	2 mL	N	2 mL		
480-198813-C-6	MW-4A	410.4	T	2 mL	2 mL	N			
480-198813-C-6 MS	MW-4A	410.4	T	2 mL	2 mL	N			0.1 mL
480-198813-C-6 MSD	MW-4A	410.4	T	2 mL	2 mL	N			0.1 mL
480-198813-C-1	MW-1A	410.4	T	2 mL	2 mL	N			
480-198813-C-2	MW-2A	410.4	T	2 mL	2 mL	N			
480-198813-C-3	MW-2B	410.4	T	2 mL	2 mL	N			
480-198813-C-4	MW-3A	410.4	T	2 mL	2 mL	N			
480-198813-C-5	MW-3B	410.4	T	2 mL	2 mL	N			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 630049 Batch Start Date: 06/14/22 18:00 Batch Analyst: Stone, Chandler S

Batch Method: 410.4 Batch End Date: 06/14/22 22:19

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ChlorideScrn	COD 25 PPM 00083	COD 75 PPM 00046	COD STD 00054
CCV 480-630049/37		410.4		2 mL	2 mL	N		2 mL	
CCB 480-630049/38		410.4		2 mL	2 mL	N			
480-198813-C-9	MW-6B	410.4	T	2 mL	2 mL	N			
480-198813-C-9 MS	MW-6B	410.4	T	2 mL	2 mL	N			0.1 mL
480-198813-C-7	MW-5A	410.4	T	2 mL	2 mL	N			
480-198813-C-8	MW-6A	410.4	T	2 mL	2 mL	N			
480-198813-C-10	MW-7A	410.4	T	2 mL	2 mL	N			
CCV 480-630049/49		410.4		2 mL	2 mL	N		2 mL	
CCB 480-630049/50		410.4		2 mL	2 mL	N			

Batch Notes	
Temperature - Uncorrected - Start	150.3 Degrees C
Temperature - Corrected - Start	150.0 Degrees C
Digestion Start Time	06/14/2022 18:00
Digestion End Time	06/14/2022 20:00
Temperature - Uncorrected - End	150.3 Degrees C
Temperature - Corrected - End	150.0 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629847 Batch Start Date: 06/13/22 07:33 Batch Analyst: Thomas, Christine L

Batch Method: 420.4 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Phenol ICV 00437	WC_Phenol_CCV 00570	WC_Phenol10W3 01290	
ICV 480-629847/10		420.4		2 mL	2 mL	# mL			
ICB 480-629847/11		420.4		2 mL	2 mL				
CCV 480-629847/14		420.4		2 mL	2 mL		# mL		
CCB 480-629847/15		420.4		2 mL	2 mL				
MB 480-629847/16		420.4		2 mL	2 mL				
LCS 480-629847/17		420.4		2 mL	2 mL		# mL		
CCV 480-629847/27		420.4		2 mL	2 mL		# mL		
CCB 480-629847/28		420.4		2 mL	2 mL				
480-198720-G-1	CD-1	420.4	T	2 mL	2 mL				
480-198720-G-1 DU	CD-1	420.4	T	2 mL	2 mL				
480-198720-G-1 MS	CD-1	420.4	T	2 mL	2 mL			20 uL	
480-198720-G-2	CD-1RA	420.4	T	2 mL	2 mL				
480-198720-G-3	MW-1B	420.4	T	2 mL	2 mL				
480-198720-G-4	DUP CD-1RA	420.4	T	2 mL	2 mL				
CCV 480-629847/41		420.4		2 mL	2 mL		# mL		
CCB 480-629847/42		420.4		2 mL	2 mL				
MB 480-629847/45		420.4		2 mL	2 mL				
LCS 480-629847/46		420.4		2 mL	2 mL		# mL		
CCV 480-629847/55		420.4		2 mL	2 mL		# mL		
CCB 480-629847/56		420.4		2 mL	2 mL				
480-198813-F-1	MW-1A	420.4	T	2 mL	2 mL				
480-198813-F-2	MW-2A	420.4	T	2 mL	2 mL				
480-198813-F-3	MW-2B	420.4	T	2 mL	2 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629847 Batch Start Date: 06/13/22 07:33 Batch Analyst: Thomas, Christine L

Batch Method: 420.4 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Phenol ICV 00437	WC_Phenol_CCV 00570	WC_Phenol10W3 01290	
480-198813-F-4	MW-3A	420.4	T	2 mL	2 mL				
CCV 480-629847/69		420.4		2 mL	2 mL		# mL		
CCB 480-629847/70		420.4		2 mL	2 mL				
MB 480-629847/73		420.4		2 mL	2 mL				
LCS 480-629847/74		420.4		2 mL	2 mL		# mL		
480-198813-F-5	MW-3B	420.4	T	2 mL	2 mL				
480-198813-F-5 MS	MW-3B	420.4	T	2 mL	2 mL			20 uL	
480-198813-F-6	MW-4A	420.4	T	2 mL	2 mL				
480-198813-F-7	MW-5A	420.4	T	2 mL	2 mL				
480-198813-F-8	MW-6A	420.4	T	2 mL	2 mL				
480-198813-F-9	MW-6B	420.4	T	2 mL	2 mL				
480-198813-F-10	MW-7A	420.4	T	2 mL	2 mL				
CCV 480-629847/83		420.4		2 mL	2 mL		# mL		
CCB 480-629847/84		420.4		2 mL	2 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 620702 Batch Start Date: 04/06/22 12:23 Batch Analyst: Olson, Jeffrey G

Batch Method: 7196A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ColorBlk	UnCorResp	0.01 hex 00029	0.02 hex 00029
IC 480-620702/1		7196A		25 mL	25 mL	0 Absorbance	0 Absorbance		
IC 480-620702/2		7196A		25 mL	25 mL	0 Absorbance	0.01 Absorbance	125 uL	
IC 480-620702/3		7196A		25 mL	25 mL	0 Absorbance	0.023 Absorbance		125 uL
IC 480-620702/4		7196A		25 mL	25 mL	0 Absorbance	0.044 Absorbance		
IC 480-620702/5		7196A		25 mL	25 mL	0 Absorbance	0.087 Absorbance		
IC 480-620702/6		7196A		25 mL	25 mL	0 Absorbance	0.171 Absorbance		
IC 480-620702/7		7196A		25 mL	25 mL	0 Absorbance	0.272 Absorbance		
IC 480-620702/8		7196A		25 mL	25 mL	0 Absorbance	0.329 Absorbance		

Lab Sample ID	Client Sample ID	Method Chain	Basis	0.05 hex 00030	0.1 hex 00029	0.2 hex 00031	0.3 hex 00029	0.4 hex 00029	
IC 480-620702/1		7196A							
IC 480-620702/2		7196A							
IC 480-620702/3		7196A							
IC 480-620702/4		7196A		125 uL					
IC 480-620702/5		7196A			125 uL				
IC 480-620702/6		7196A				125 uL			
IC 480-620702/7		7196A					125 uL		
IC 480-620702/8		7196A						125 uL	

Batch Notes	
Color Reagent ID	6894927

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629118 Batch Start Date: 06/07/22 11:00 Batch Analyst: Giglia, Elizabeth A

Batch Method: 7196A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	ColorBlk	UnCorResp	HEX INT STD 00118		
CCV 480-629118/1		7196A		25 mL	0 Absorbance	0.039 Absorbance	125 uL		
CCB 480-629118/2		7196A		25 mL	0 Absorbance	0 Absorbance			
MB 480-629118/3		7196A		25 mL	0 Absorbance	0 Absorbance			
LCS 480-629118/4		7196A		25 mL	0 Absorbance	0.048 Absorbance	125 uL		
CCV 480-629118/13		7196A		25 mL	0 Absorbance	0.045 Absorbance	125 uL		
CCV 480-629118/14		7196A		25 mL	0 Absorbance	0 Absorbance			
480-198720-L-1	CD-1	7196A	T	25 mL	0 Absorbance	0 Absorbance			
480-198720-L-2	CD-1RA	7196A	T	25 mL	0 Absorbance	0 Absorbance			
CCV 480-629118/25		7196A		25 mL	0 Absorbance	0.046 Absorbance	125 uL		
CCB 480-629118/26		7196A		25 mL	0 Absorbance	0 Absorbance			
MB 480-629118/27		7196A		25 mL	0 Absorbance	0 Absorbance			
LCS 480-629118/28		7196A		25 mL	0 Absorbance	0.045 Absorbance	125 uL		
480-198720-L-3	MW-1B	7196A	T	25 mL	0 Absorbance	0 Absorbance			
480-198720-L-3 DU	MW-1B	7196A	T	25 mL	0 Absorbance	0 Absorbance			
480-198720-K-4	DUP CD-1RA	7196A	T	25 mL	0 Absorbance	0 Absorbance			
480-198720-K-4 MS	DUP CD-1RA	7196A	T	25 mL	0 Absorbance	0.042 Absorbance	125 uL		
CCV 480-629118/34		7196A		25 mL	0 Absorbance	0.042 Absorbance	125 uL		
CCB 480-629118/35		7196A		25 mL	0 Absorbance	0 Absorbance			

Batch Notes	
Color Reagent ID	6994663

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629426 Batch Start Date: 06/09/22 10:15 Batch Analyst: Giglia, Elizabeth A

Batch Method: 7196A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	ColorBlk	UnCorResp	HEX INT STD 00118		
CCV 480-629426/1		7196A		25 mL	0 Absorbance	0.043 Absorbance	125 uL		
CCB 480-629426/2		7196A		25 mL	0 Absorbance	0 Absorbance			
MB 480-629426/3		7196A		25 mL	0 Absorbance	0 Absorbance			
LCS 480-629426/4		7196A		25 mL	0 Absorbance	0.042 Absorbance	125 uL		
480-198813-K-4	MW-3A	7196A	T	25 mL	0 Absorbance	0 Absorbance			
480-198813-K-4 DU	MW-3A	7196A	T	25 mL	0 Absorbance	0 Absorbance			
480-198813-K-5	MW-3B	7196A	T	25 mL	0 Absorbance	0 Absorbance			
480-198813-K-5 MS	MW-3B	7196A	T	25 mL	0 Absorbance	0.039 Absorbance	125 uL		
480-198813-K-6	MW-4A	7196A	T	25 mL	0 Absorbance	0 Absorbance			
480-198813-K-1	MW-1A	7196A	T	25 mL	0 Absorbance	0 Absorbance			
480-198813-K-2	MW-2A	7196A	T	25 mL	0 Absorbance	0 Absorbance			
480-198813-K-3	MW-2B	7196A	T	25 mL	0 Absorbance	0 Absorbance			
CCV 480-629426/13		7196A		25 mL	0 Absorbance	0.047 Absorbance	125 uL		
CCB 480-629426/14		7196A		25 mL	0 Absorbance	0 Absorbance			
480-198813-K-7	MW-5A	7196A	T	25 mL	0 Absorbance	0 Absorbance			
480-198813-K-7 DU	MW-5A	7196A	T	25 mL	0 Absorbance	0 Absorbance			
480-198813-K-9	MW-6B	7196A	T	25 mL	0 Absorbance	0 Absorbance			
480-198813-K-9 MS	MW-6B	7196A	T	25 mL	0 Absorbance	0.041 Absorbance	125 uL		
480-198813-K-8	MW-6A	7196A	T	25 mL	0 Absorbance	0 Absorbance			
480-198813-K-10	MW-7A	7196A	T	25 mL	0 Absorbance	0 Absorbance			
CCV 480-629426/24		7196A		25 mL	0 Absorbance	0.048 Absorbance	125 uL		
CCB 480-629426/25		7196A		25 mL	0 Absorbance	0 Absorbance			

Batch Notes	
Color Reagent ID	6994663

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629426 Batch Start Date: 06/09/22 10:15 Batch Analyst: Giglia, Elizabeth A

Batch Method: 7196A Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629139 Batch Start Date: 06/07/22 15:30 Batch Analyst: Laxton, Eric J

Batch Method: SM 2120B Batch End Date: 06/07/22 15:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	AdjustedpH	InitialAmount	FinalAmount	Color Std-2 00021	
CCV 480-629139/1		SM 2120B		1 SU	1 SU	50 mL	50 mL	3 mL	
CCB 480-629139/2		SM 2120B		5 SU	5 SU	50 mL	50 mL		
MB 480-629139/3		SM 2120B		5 SU	5 SU	50 mL	50 mL		
LCS 480-629139/4		SM 2120B		1 SU	1 SU	50 mL	50 mL	3 mL	
480-198720-J-1	CD-1	SM 2120B	T	5 SU	5 SU	50 mL	50 mL		
480-198720-J-2	CD-1RA	SM 2120B	T	5 SU	5 SU	50 mL	50 mL		
480-198720-J-3	MW-1B	SM 2120B	T	5 SU	5 SU	50 mL	50 mL		
480-198720-I-4	DUP CD-1RA	SM 2120B	T	5 SU	5 SU	50 mL	50 mL		

Batch Notes	
pH Meter ID	strips

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629501 Batch Start Date: 06/09/22 15:30 Batch Analyst: Laxton, Eric J

Batch Method: SM 2120B Batch End Date: 06/09/22 16:06

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	AdjustedpH	InitialAmount	FinalAmount	Color Std-2 00021	
CCV 480-629501/1		SM 2120B		1 SU	1 SU	50 mL	50 mL	3 mL	
CCB 480-629501/2		SM 2120B		5 SU	5 SU	50 mL	50 mL		
MB 480-629501/3		SM 2120B		5 SU	5 SU	50 mL	50 mL		
LCS 480-629501/4		SM 2120B		1 SU	1 SU	50 mL	50 mL	3 mL	
480-198813-I-1	MW-1A	SM 2120B	T	5 SU	5 SU	50 mL	50 mL		
480-198813-I-1 DU	MW-1A	SM 2120B	T	5 SU	5 SU	50 mL	50 mL		
480-198813-I-2	MW-2A	SM 2120B	T	5 SU	5 SU	50 mL	50 mL		
480-198813-I-3	MW-2B	SM 2120B	T	5 SU	5 SU	50 mL	50 mL		
480-198813-I-4	MW-3A	SM 2120B	T	5 SU	5 SU	50 mL	50 mL		
480-198813-I-5	MW-3B	SM 2120B	T	5 SU	5 SU	50 mL	50 mL		
480-198813-I-6	MW-4A	SM 2120B	T	5 SU	5 SU	50 mL	50 mL		
480-198813-I-7	MW-5A	SM 2120B	T	5 SU	5 SU	50 mL	50 mL		
CCV 480-629501/13		SM 2120B		1 SU	1 SU	50 mL	50 mL	3 mL	
CCB 480-629501/14		SM 2120B		5 SU	5 SU	50 mL	50 mL		
480-198813-I-8	MW-6A	SM 2120B	T	5 SU	5 SU	50 mL	50 mL		
480-198813-I-8 DU	MW-6A	SM 2120B	T	5 SU	5 SU	50 mL	50 mL		
480-198813-I-9	MW-6B	SM 2120B	T	5 SU	5 SU	50 mL	50 mL		
480-198813-I-10	MW-7A	SM 2120B	T	5 SU	5 SU	50 mL	50 mL		
CCV 480-629501/21		SM 2120B		1 SU	1 SU	50 mL	50 mL	3 mL	
CCB 480-629501/22		SM 2120B		5 SU	5 SU	50 mL	50 mL		

Batch Notes	
pH Meter ID	yes

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 612602 Batch Start Date: 01/24/22 13:52 Batch Analyst: Zahniser, Ian M

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IC_6ANION_STD 00003				
IC 480-612602/2		300.0		5 mL	2.5 uL				
IC 480-612602/3		300.0		5 mL	10 uL				
IC 480-612602/4		300.0		5 mL	25 uL				
IC 480-612602/5		300.0		5 mL	100 uL				
IC 480-612602/6		300.0		5 mL	250 uL				
IC 480-612602/7		300.0		5 mL	500 uL				
IC 480-612602/8		300.0		5 mL	1000 uL				

Batch Notes	
Filter ID	17201245
Eluent 1 ID	210982405315

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 619516 Batch Start Date: 03/29/22 10:51 Batch Analyst: Zahniser, Ian M

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IC_6ANION_STD 00003				
IC 480-619516/2		300.0		5 mL	2.5 uL				
IC 480-619516/3		300.0		5 mL	10 uL				
IC 480-619516/4		300.0		5 mL	25 uL				
IC 480-619516/5		300.0		5 mL	100 uL				
IC 480-619516/6		300.0		5 mL	250 uL				
IC 480-619516/7		300.0		5 mL	500 uL				
IC 480-619516/8		300.0		5 mL	1000 uL				

Batch Notes	
Filter ID	17283634
Eluent 1 ID	210811841015

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629883 Batch Start Date: 06/14/22 13:53 Batch Analyst: Zahniser, Ian M

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IC_ANION_LCS_00421				
CCV 480-629883/2		300.0		5 mL	5 mL				
CCB 480-629883/3		300.0		5 mL					
MB 480-629883/4		300.0		5 mL					
LCS 480-629883/5		300.0		5 mL	5 mL				
CCV 480-629883/14		300.0		5 mL	5 mL				
CCB 480-629883/15		300.0		5 mL					
480-198720-M-1	CD-1	300.0	T	5 mL					
480-198720-M-2	CD-1RA	300.0	T	5 mL					
480-198720-M-3	MW-1B	300.0	T	5 mL					
480-198720-M-4	DUP CD-1RA	300.0	T	5 mL					
CCV 480-629883/26		300.0		5 mL	5 mL				
CCB 480-629883/27		300.0		5 mL					

Batch Notes	
Filter ID	17398725
Eluent 1 ID	210811841015

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 630215 Batch Start Date: 06/15/22 17:28 Batch Analyst: Zahniser, Ian M

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IC_6ANION_STD 00004	IC_ANION_LCS_ 00421			
CCV 480-630215/2		300.0		5 mL		5 mL			
CCB 480-630215/3		300.0		5 mL					
MB 480-630215/4		300.0		5 mL					
LCS 480-630215/5		300.0		5 mL		5 mL			
CCV 480-630215/14		300.0		5 mL		5 mL			
CCB 480-630215/15		300.0		5 mL					
480-198813-L-1	MW-1A	300.0	T	5 mL					
480-198813-L-2	MW-2A	300.0	T	5 mL					
480-198813-L-3	MW-2B	300.0	T	5 mL					
480-198813-L-4	MW-3A	300.0	T	5 mL					
480-198813-L-5	MW-3B	300.0	T	5 mL					
480-198813-L-6	MW-4A	300.0	T	5 mL					
480-198813-L-6 MS	MW-4A	300.0	T	5 mL	250 uL				
CCV 480-630215/26		300.0		5 mL		5 mL			
CCB 480-630215/27		300.0		5 mL					

Batch Notes	
Filter ID	17398725
Eluent 1 ID	210811841015

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 630550 Batch Start Date: 06/17/22 17:39 Batch Analyst: Zahniser, Ian M

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IC_ANION_LCS_00421				
CCV 480-630550/2		300.0		5 mL	5 mL				
CCB 480-630550/3		300.0		5 mL					
MB 480-630550/4		300.0		5 mL					
LCS 480-630550/5		300.0		5 mL	5 mL				
480-198813-L-7	MW-5A	300.0	T	1 mL					
480-198813-L-8	MW-6A	300.0	T	1 mL					
480-198813-L-9	MW-6B	300.0	T	1 mL					
480-198813-L-10	MW-7A	300.0	T	1 mL					
CCV 480-630550/14		300.0		5 mL	5 mL				
CCB 480-630550/15		300.0		5 mL					

Batch Notes	
Filter ID	17473162
Eluent 1 ID	220192720319

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629156 Batch Start Date: 06/07/22 22:01 Batch Analyst: Stone, Chandler S

Batch Method: 353.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
480-198720-J-1	CD-1	353.2	T	5 mL	5 mL				
480-198720-J-2	CD-1RA	353.2	T	5 mL	5 mL				
480-198720-J-3	MW-1B	353.2	T	5 mL	5 mL				
480-198720-I-4	DUP CD-1RA	353.2	T	5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629525 Batch Start Date: 06/09/22 22:57 Batch Analyst: Stone, Chandler S

Batch Method: 353.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
480-198813-I-6	MW-4A	353.2	T	5 mL	5 mL				
480-198813-I-4	MW-3A	353.2	T	5 mL	5 mL				
480-198813-I-1	MW-1A	353.2	T	5 mL	5 mL				
480-198813-I-2	MW-2A	353.2	T	5 mL	5 mL				
480-198813-I-3	MW-2B	353.2	T	5 mL	5 mL				
480-198813-I-5	MW-3B	353.2	T	5 mL	5 mL				
480-198813-I-9	MW-6B	353.2	T	5 mL	5 mL				
480-198813-I-10	MW-7A	353.2	T	5 mL	5 mL				
480-198813-I-8	MW-6A	353.2	T	5 mL	5 mL				
480-198813-I-7	MW-5A	353.2	T	5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629495 Batch Start Date: 06/09/22 12:04 Batch Analyst: Rials, Sidney T

Batch Method: 9038 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Sulf 1000 ppm 00042	Sulf 30ppm 00196		
ICB 480-629495/9		9038		2 mL	2 mL				
CCB 480-629495/51		9038		2 mL	2 mL				
CCV 480-629495/52		9038		2 mL	2 mL		# mL		
MB 480-629495/53		9038		2 mL	2 mL				
LCS 480-629495/54		9038		2 mL	2 mL		# mL		
CCB 480-629495/58		9038		2 mL	2 mL				
CCV 480-629495/59		9038		2 mL	2 mL		# mL		
CCB 480-629495/114		9038		2 mL	2 mL				
CCV 480-629495/115		9038		2 mL	2 mL		# mL		
MB 480-629495/117		9038		2 mL	2 mL				
LCS 480-629495/118		9038		2 mL	2 mL		# mL		
CCB 480-629495/123		9038		2 mL	2 mL				
CCV 480-629495/124		9038		2 mL	2 mL		# mL		
480-198720-L-1	CD-1	9038	T	2 mL	2 mL				
MB 480-629495/128		9038		2 mL	2 mL				
LCS 480-629495/129		9038		2 mL	2 mL		# mL		
480-198720-L-2	CD-1RA	9038	T	2 mL	2 mL				
480-198720-H-3	MW-1B	9038	T	2 mL	2 mL				
CCB 480-629495/134		9038		2 mL	2 mL				
CCV 480-629495/135		9038		2 mL	2 mL		# mL		
480-198720-J-4	DUP CD-1RA	9038	T	2 mL	2 mL				
CCV 480-629495/147		9038		2 mL	2 mL		# mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629495 Batch Start Date: 06/09/22 12:04 Batch Analyst: Rials, Sidney T

Batch Method: 9038 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Sulf 1000 ppm 00042	Sulf 30ppm 00196		
CCB 480-629495/148		9038		2 mL	2 mL				
CCV 480-629495/152		9038		2 mL	2 mL		# mL		
CCB 480-629495/154		9038		2 mL	2 mL				
MB 480-629495/156		9038		2 mL	2 mL				
CCV 480-629495/157		9038		2 mL	2 mL		# mL		
CCB 480-629495/161		9038		2 mL	2 mL				
LCS 480-629495/163		9038		2 mL	2 mL		# mL		
480-198813-H-1	MW-1A	9038	T	2 mL	2 mL				
480-198813-G-2	MW-2A	9038	T	2 mL	2 mL				
MB 480-629495/167		9038		2 mL	2 mL				
CCV 480-629495/168		9038		2 mL	2 mL		# mL		
480-198813-H-3	MW-2B	9038	T	2 mL	2 mL				
480-198813-G-4	MW-3A	9038	T	2 mL	2 mL				
480-198813-G-5	MW-3B	9038	T	2 mL	2 mL				
480-198813-G-6	MW-4A	9038	T	2 mL	2 mL				
CCB 480-629495/173		9038		2 mL	2 mL				
LCS 480-629495/174		9038		2 mL	2 mL		# mL		
480-198813-H-7	MW-5A	9038	T	2 mL	2 mL				
480-198813-H-8 MS	MW-6A	9038	T	2 mL	2 mL	0.04 mL			
480-198813-H-8 MSD	MW-6A	9038	T	2 mL	2 mL	0.04 mL			
480-198813-H-8	MW-6A	9038	T	2 mL	2 mL				
MB 480-629495/179		9038		2 mL	2 mL				
CCV 480-629495/180		9038		2 mL	2 mL		# mL		
480-198813-G-9	MW-6B	9038	T	2 mL	2 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629495 Batch Start Date: 06/09/22 12:04 Batch Analyst: Rials, Sidney T

Batch Method: 9038 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Sulf 1000 ppm 00042	Sulf 30ppm 00196		
480-198813-G-10	MW-7A	9038	T	2 mL	2 mL				
CCB 480-629495/184		9038		2 mL	2 mL				
CCV 480-629495/191		9038		2 mL	2 mL		# mL		

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629374 Batch Start Date: 06/09/22 09:41 Batch Analyst: King, Sayvion A

Batch Method: SM 2540C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Weight2	WeightOne%Diff
MB 480-629374/1		SM 2540C		MB	110.7573 g	100 mL	110.7574 g	110.7573 g	Pass No Unit
LCS 480-629374/2		SM 2540C		LCS	102.5829 g	100 mL	102.6303 g	102.6301 g	Pass No Unit
480-198720-B-3	MW-1B	SM 2540C	T	3	111.0380 g	100 mL	111.0529 g	111.0527 g	Pass No Unit
480-198720-B-3 DU	MW-1B	SM 2540C	T	4	112.9532 g	100 mL	112.9679 g	112.9677 g	Pass No Unit
480-198720-B-4	DUP CD-1RA	SM 2540C	T	5	123.3067 g	100 mL	123.3411 g	123.3410 g	Pass No Unit

Lab Sample ID	Client Sample ID	Method Chain	Basis	WeightTwo%Diff	Weight4OK	Residue	Residue2	Residue3	Residue4
MB 480-629374/1		SM 2540C		N/A No Unit	N/A	0.0001 g	0 g	N/A g	N/A g
LCS 480-629374/2		SM 2540C		N/A No Unit	N/A	0.0474 g	0.0472 g	N/A g	N/A g
480-198720-B-3	MW-1B	SM 2540C	T	N/A No Unit	N/A	0.0149 g	0.0147 g	N/A g	N/A g
480-198720-B-3 DU	MW-1B	SM 2540C	T	N/A No Unit	N/A	0.0147 g	0.0145 g	N/A g	N/A g
480-198720-B-4	DUP CD-1RA	SM 2540C	T	N/A No Unit	N/A	0.0344 g	0.0343 g	N/A g	N/A g

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	CalcMsg	5895584 00010			
MB 480-629374/1		SM 2540C		100 mL	OK				
LCS 480-629374/2		SM 2540C		100 mL	OK	100 mL			
480-198720-B-3	MW-1B	SM 2540C	T	100 mL	OK				
480-198720-B-3 DU	MW-1B	SM 2540C	T	100 mL	OK				
480-198720-B-4	DUP CD-1RA	SM 2540C	T	100 mL	OK				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629374 Batch Start Date: 06/09/22 09:41 Batch Analyst: King, Sayvion A

Batch Method: SM 2540C Batch End Date:

Batch Notes	
Nominal Amount Used	100 mL
Balance ID	3
Oven ID - Low Temperature	105-2
Thermometer ID - Low Temperature	2
Date/Time - In	06/09/2022 10:58
Temperature - Start - Uncorrected	105 Celsius
Temperature - Start - Corrected	105 Celsius
Date/Time - Out	06/10/2022 16:10
Temperature - End - Uncorrected	105 Celsius
Temperature - End - Corrected	105 Celsius
Oven ID	180-1
Thermometer ID	1
Weight(WT1) Start Date/Time	06/10/2022 16:10 No Unit
Uncorrected Weight(WT1) Start Temp	180 Celsius
Weight(WT1) Start Temp	180 Celsius
Weight(WT1) Date/Time Out	06/16/2022 08:37
Uncorrected Weight(WT1) Temp Out	180 Celsius
Weight(WT1) Temp Out	180 Celsius
Date/Time - In - CW (WT2)	06/16/2022 09:48
Temperature - Start-CW(WT2) -Uncorrected	180 Celsius
Temperature - Start - CW (WT2) - Correct	180 Celsius
Date/Time - Out - CW (WT2)	06/16/2022 11:22
Temperature - End-CW(WT2) -Uncorrected	180 Celsius
Temperature - End - CW (WT2) - Correct	180 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629377 Batch Start Date: 06/09/22 09:45 Batch Analyst: King, Sayvion A

Batch Method: SM 2540C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Weight2	WeightOne%Diff
MB 480-629377/1		SM 2540C		MB	122.2921 g	100 mL	122.2920 g	122.2921 g	Pass No Unit
LCS 480-629377/2		SM 2540C		LCS	118.5096 g	100 mL	118.5556 g	118.5555 g	Pass No Unit
480-198720-B-1	CD-1	SM 2540C	T	20	108.0969 g	100 mL	108.1144 g	108.1142 g	Pass No Unit
480-198720-B-2	CD-1RA	SM 2540C	T	21	108.2173 g	100 mL	108.2338 g	108.2339 g	Pass No Unit
480-198720-B-2 DU	CD-1RA	SM 2540C	T	22	126.7946 g	100 mL	126.8124 g	126.8122 g	Pass No Unit

Lab Sample ID	Client Sample ID	Method Chain	Basis	WeightTwo%Diff	Weight4OK	Residue	Residue2	Residue3	Residue4
MB 480-629377/1		SM 2540C		N/A No Unit	N/A	-0.0001 g	0 g	N/A g	N/A g
LCS 480-629377/2		SM 2540C		N/A No Unit	N/A	0.046 g	0.0459 g	N/A g	N/A g
480-198720-B-1	CD-1	SM 2540C	T	N/A No Unit	N/A	0.0175 g	0.0173 g	N/A g	N/A g
480-198720-B-2	CD-1RA	SM 2540C	T	N/A No Unit	N/A	0.0165 g	0.0166 g	N/A g	N/A g
480-198720-B-2 DU	CD-1RA	SM 2540C	T	N/A No Unit	N/A	0.0178 g	0.0176 g	N/A g	N/A g

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	CalcMsg	5895584 00010			
MB 480-629377/1		SM 2540C		100 mL	OK				
LCS 480-629377/2		SM 2540C		100 mL	OK	100 mL			
480-198720-B-1	CD-1	SM 2540C	T	100 mL	OK				
480-198720-B-2	CD-1RA	SM 2540C	T	100 mL	OK				
480-198720-B-2 DU	CD-1RA	SM 2540C	T	100 mL	OK				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629377 Batch Start Date: 06/09/22 09:45 Batch Analyst: King, Sayvion A

Batch Method: SM 2540C Batch End Date:

Batch Notes	
Nominal Amount Used	100 mL
Balance ID	3
Oven ID - Low Temperature	105-2
Thermometer ID - Low Temperature	2
Date/Time - In	06/09/2022 10:58
Temperature - Start - Uncorrected	105 Celsius
Temperature - Start - Corrected	105 Celsius
Date/Time - Out	06/10/2022 16:09
Temperature - End - Uncorrected	105 Celsius
Temperature - End - Corrected	105 Celsius
Oven ID	180-1
Thermometer ID	1
Weight(WT1) Start Date/Time	06/10/2022 16:09 No Unit
Uncorrected Weight(WT1) Start Temp	180 Celsius
Weight(WT1) Start Temp	180 Celsius
Weight(WT1) Date/Time Out	06/13/2022 08:34
Uncorrected Weight(WT1) Temp Out	180 Celsius
Weight(WT1) Temp Out	180 Celsius
Date/Time - In - CW (WT2)	06/13/2022 09:23
Temperature - Start-CW(WT2) -Uncorrected	180 Celsius
Temperature - Start - CW (WT2) - Correct	180 Celsius
Date/Time - Out - CW (WT2)	06/13/2022 10:21
Temperature - End-CW(WT2) -Uncorrected	180 Celsius
Temperature - End - CW (WT2) - Correct	180 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629552 Batch Start Date: 06/10/22 09:23 Batch Analyst: King, Sayvion A

Batch Method: SM 2540C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Weight2	WeightOne%Diff
MB 480-629552/1		SM 2540C		MB	107.9927 g	100 mL	107.9927 g	107.9927 g	Pass No Unit
LCS 480-629552/2		SM 2540C		LCS	108.8738 g	100 mL	108.9202 g	108.9201 g	Pass No Unit
480-198813-B-1	MW-1A	SM 2540C	T	12	108.9293 g	100 mL	108.9521 g	108.9520 g	Pass No Unit
480-198813-B-2	MW-2A	SM 2540C	T	13	113.9653 g	100 mL	113.9982 g	113.9982 g	Pass No Unit
480-198813-B-3	MW-2B	SM 2540C	T	14	123.7200 g	100 mL	123.7925 g	123.7922 g	Pass No Unit
480-198813-B-4	MW-3A	SM 2540C	T	15	112.1940 g	100 mL	112.2137 g	112.2135 g	Pass No Unit
480-198813-B-5	MW-3B	SM 2540C	T	16	116.6939 g	100 mL	116.7160 g	116.7158 g	Pass No Unit
480-198813-B-6	MW-4A	SM 2540C	T	17	105.7975 g	100 mL	105.8381 g	105.8380 g	Pass No Unit
480-198813-B-8	MW-6A	SM 2540C	T	18	107.9286 g	100 mL	107.9716 g	107.9712 g	Pass No Unit
480-198813-B-7	MW-5A	SM 2540C	T	19	119.5356 g	100 mL	119.5521 g	119.5518 g	Pass No Unit
480-198813-B-7 DU	MW-5A	SM 2540C	T	20	124.6220 g	100 mL	124.6385 g	124.6382 g	Pass No Unit

Lab Sample ID	Client Sample ID	Method Chain	Basis	WeightTwo%Diff	Weight4OK	Residue	Residue2	Residue3	Residue4
MB 480-629552/1		SM 2540C		N/A No Unit	N/A	0 g	0 g	N/A g	N/A g
LCS 480-629552/2		SM 2540C		N/A No Unit	N/A	0.0464 g	0.0463 g	N/A g	N/A g
480-198813-B-1	MW-1A	SM 2540C	T	N/A No Unit	N/A	0.0228 g	0.0227 g	N/A g	N/A g
480-198813-B-2	MW-2A	SM 2540C	T	N/A No Unit	N/A	0.0329 g	0.0329 g	N/A g	N/A g
480-198813-B-3	MW-2B	SM 2540C	T	N/A No Unit	N/A	0.0725 g	0.0722 g	N/A g	N/A g
480-198813-B-4	MW-3A	SM 2540C	T	N/A No Unit	N/A	0.0197 g	0.0195 g	N/A g	N/A g
480-198813-B-5	MW-3B	SM 2540C	T	N/A No Unit	N/A	0.0221 g	0.0219 g	N/A g	N/A g
480-198813-B-6	MW-4A	SM 2540C	T	N/A No Unit	N/A	0.0406 g	0.0405 g	N/A g	N/A g
480-198813-B-8	MW-6A	SM 2540C	T	N/A No Unit	N/A	0.043 g	0.0426 g	N/A g	N/A g
480-198813-B-7	MW-5A	SM 2540C	T	N/A No Unit	N/A	0.0165 g	0.0162 g	N/A g	N/A g
480-198813-B-7 DU	MW-5A	SM 2540C	T	N/A No Unit	N/A	0.0165 g	0.0162 g	N/A g	N/A g

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	CalcMsg	5895584 00010			
MB 480-629552/1		SM 2540C		100 mL	OK				
LCS 480-629552/2		SM 2540C		100 mL	OK	100 mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629552 Batch Start Date: 06/10/22 09:23 Batch Analyst: King, Sayvion A

Batch Method: SM 2540C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	CalcMsg	5895584 00010			
480-198813-B-1	MW-1A	SM 2540C	T	100 mL	OK				
480-198813-B-2	MW-2A	SM 2540C	T	100 mL	OK				
480-198813-B-3	MW-2B	SM 2540C	T	100 mL	OK				
480-198813-B-4	MW-3A	SM 2540C	T	100 mL	OK				
480-198813-B-5	MW-3B	SM 2540C	T	100 mL	OK				
480-198813-B-6	MW-4A	SM 2540C	T	100 mL	OK				
480-198813-B-8	MW-6A	SM 2540C	T	100 mL	OK				
480-198813-B-7	MW-5A	SM 2540C	T	100 mL	OK				
480-198813-B-7 DU	MW-5A	SM 2540C	T	100 mL	OK				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629552 Batch Start Date: 06/10/22 09:23 Batch Analyst: King, Sayvion A

Batch Method: SM 2540C Batch End Date:

Batch Notes	
Nominal Amount Used	100 mL
Balance ID	3
Oven ID - Low Temperature	105-2
Thermometer ID - Low Temperature	2
Date/Time - In	06/10/2022 10:29
Temperature - Start - Uncorrected	105 Celsius
Temperature - Start - Corrected	105 Celsius
Date/Time - Out	06/13/2022 08:33
Temperature - End - Uncorrected	105 Celsius
Temperature - End - Corrected	105 Celsius
Oven ID	180-1
Thermometer ID	1
Weight(WT1) Start Date/Time	06/13/2022 08:34 No Unit
Uncorrected Weight(WT1) Start Temp	180 Celsius
Weight(WT1) Start Temp	180 Celsius
Weight(WT1) Date/Time Out	06/13/2022 09:24
Uncorrected Weight(WT1) Temp Out	180 Celsius
Weight(WT1) Temp Out	180 Celsius
Date/Time - In - CW (WT2)	06/13/2022 10:21
Temperature - Start-CW(WT2) -Uncorrected	180 Celsius
Temperature - Start - CW (WT2) - Correct	180 Celsius
Date/Time - Out - CW (WT2)	06/13/2022 11:49
Temperature - End-CW(WT2) -Uncorrected	180 Celsius
Temperature - End - CW (WT2) - Correct	180 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629750 Batch Start Date: 06/13/22 09:26 Batch Analyst: King, Sayvion A

Batch Method: SM 2540C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Weight2	Weight3
MB 480-629750/1		SM 2540C		MB	108.5867 g	100 mL	108.5867 g	108.5867 g	0 g
LCS 480-629750/2		SM 2540C		LCS	110.9747 g	100 mL	111.0247 g	111.0247 g	0 g
480-198813-B-9	MW-6B	SM 2540C	T	5	103.3817 g	100 mL	103.4101 g	103.4102 g	0 g
480-198813-B-10	MW-7A	SM 2540C	T	6	111.2849 g	100 mL	111.3273 g	111.3272 g	0 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Weight4	WeightOne%Diff	WeightTwo%Diff	Weight4OK	Residue	Residue2
MB 480-629750/1		SM 2540C		0 g	Pass No Unit	N/A No Unit	N/A	0 g	0 g
LCS 480-629750/2		SM 2540C		0 g	Pass No Unit	N/A No Unit	N/A	0.05 g	0.05 g
480-198813-B-9	MW-6B	SM 2540C	T	0 g	Pass No Unit	N/A No Unit	N/A	0.0284 g	0.0285 g
480-198813-B-10	MW-7A	SM 2540C	T	0 g	Pass No Unit	N/A No Unit	N/A	0.0424 g	0.0423 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Residue3	Residue4	FinalAmount	CalcMsg	5895584 00010	
MB 480-629750/1		SM 2540C		N/A g	N/A g	100 mL	OK		
LCS 480-629750/2		SM 2540C		N/A g	N/A g	100 mL	OK	100 mL	
480-198813-B-9	MW-6B	SM 2540C	T	N/A g	N/A g	100 mL	OK		
480-198813-B-10	MW-7A	SM 2540C	T	N/A g	N/A g	100 mL	OK		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629750 Batch Start Date: 06/13/22 09:26 Batch Analyst: King, Sayvion A

Batch Method: SM 2540C Batch End Date:

Batch Notes	
Nominal Amount Used	100 mL
Balance ID	3
Oven ID - Low Temperature	105-1
Thermometer ID - Low Temperature	1
Date/Time - In	06/13/2022 11:06
Temperature - Start - Uncorrected	105 Celsius
Temperature - Start - Corrected	105 Celsius
Date/Time - Out	06/15/2022 09:24
Temperature - End - Uncorrected	105 Celsius
Temperature - End - Corrected	105 Celsius
Oven ID	180-5
Thermometer ID	5
Weight(WT1) Start Date/Time	06/15/2022 09:24 No Unit
Uncorrected Weight(WT1) Start Temp	180 Celsius
Weight(WT1) Start Temp	180 Celsius
Weight(WT1) Date/Time Out	06/15/2022 10:24
Uncorrected Weight(WT1) Temp Out	180 Celsius
Weight(WT1) Temp Out	180 Celsius
Date/Time - In - CW (WT2)	06/15/2022 11:43
Temperature - Start-CW(WT2) -Uncorrected	180 Celsius
Temperature - Start - CW (WT2) - Correct	180 Celsius
Date/Time - Out - CW (WT2)	06/15/2022 13:44
Temperature - End-CW(WT2) -Uncorrected	180 Celsius
Temperature - End - CW (WT2) - Correct	180 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629332 Batch Start Date: 06/08/22 18:33 Batch Analyst: Anateria, Riley DJ

Batch Method: SM 4500 Cl- E Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WC25ppmChlInt 00162			
ICB 480-629332/8		SM 4500 Cl- E		2 mL	2 mL				
ICV 480-629332/13		SM 4500 Cl- E		2 mL	2 mL				
CCB 480-629332/240		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-629332/241		SM 4500 Cl- E		2 mL	2 mL	2 mL			
MB 480-629332/243		SM 4500 Cl- E		2 mL	2 mL				
CCB 480-629332/249		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-629332/250		SM 4500 Cl- E		2 mL	2 mL	2 mL			
LCS 480-629332/251		SM 4500 Cl- E		2 mL	2 mL	2 mL			
MB 480-629332/252		SM 4500 Cl- E		2 mL	2 mL				
CCB 480-629332/259		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-629332/260		SM 4500 Cl- E		2 mL	2 mL	2 mL			
MB 480-629332/262		SM 4500 Cl- E		2 mL	2 mL				
CCB 480-629332/273		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-629332/274		SM 4500 Cl- E		2 mL	2 mL	2 mL			
LCS 480-629332/275		SM 4500 Cl- E		2 mL	2 mL	2 mL			
MB 480-629332/276		SM 4500 Cl- E		2 mL	2 mL				
480-198720-L-2	CD-1RA	SM 4500 Cl- E	T	2 mL	2 mL				
CCB 480-629332/284		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-629332/285		SM 4500 Cl- E		2 mL	2 mL	2 mL			
MB 480-629332/287		SM 4500 Cl- E		2 mL	2 mL				
CCB 480-629332/298		SM 4500 Cl- E		2 mL	2 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629332 Batch Start Date: 06/08/22 18:33 Batch Analyst: Anateria, Riley DJ

Batch Method: SM 4500 Cl- E Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WC25ppmChlInt 00162			
CCV 480-629332/299		SM 4500 Cl- E		2 mL	2 mL	2 mL			
LCS 480-629332/300		SM 4500 Cl- E		2 mL	2 mL	2 mL			
MB 480-629332/301		SM 4500 Cl- E		2 mL	2 mL				
CCB 480-629332/310		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-629332/311		SM 4500 Cl- E		2 mL	2 mL	2 mL			
LCS 480-629332/312		SM 4500 Cl- E		2 mL	2 mL	2 mL			
MB 480-629332/313		SM 4500 Cl- E		2 mL	2 mL				
480-198720-J-4	DUP CD-1RA	SM 4500 Cl- E	T	2 mL	2 mL				
480-198720-H-3	MW-1B	SM 4500 Cl- E	T	2 mL	2 mL				
CCB 480-629332/322		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-629332/323		SM 4500 Cl- E		2 mL	2 mL	2 mL			

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 631684 Batch Start Date: 06/26/22 10:36 Batch Analyst: Zahniser, Ian M

Batch Method: SM 4500 Cl- E Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WC1000ClStk 00024	WC25ppmChlInt 00163	WC25ppmChlInt 00164	
ICB 480-631684/3		SM 4500 Cl- E		2 mL	2 mL				
ICV 480-631684/4		SM 4500 Cl- E		2 mL	2 mL		# mL		
CCVL 480-631684/9		SM 4500 Cl- E		2 mL	2 mL			0.04 mL	
CCV 480-631684/10		SM 4500 Cl- E		2 mL	2 mL			# mL	
CCB 480-631684/12		SM 4500 Cl- E		2 mL	2 mL				
MB 480-631684/13		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-631684/14		SM 4500 Cl- E		2 mL	2 mL			# mL	
LCS 480-631684/15		SM 4500 Cl- E		2 mL	2 mL			# mL	
CCB 480-631684/16		SM 4500 Cl- E		2 mL	2 mL				
MB 480-631684/17		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-631684/22		SM 4500 Cl- E		2 mL	2 mL			# mL	
CCB 480-631684/24		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-631684/90		SM 4500 Cl- E		2 mL	2 mL			# mL	
CCB 480-631684/92		SM 4500 Cl- E		2 mL	2 mL				
MB 480-631684/93		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-631684/94		SM 4500 Cl- E		2 mL	2 mL			# mL	
LCS 480-631684/95		SM 4500 Cl- E		2 mL	2 mL			# mL	
CCB 480-631684/96		SM 4500 Cl- E		2 mL	2 mL				
MB 480-631684/97		SM 4500 Cl- E		2 mL	2 mL				
480-198813-J-1	MW-1A	SM 4500 Cl- E	T	2 mL	2 mL				
CCV 480-631684/102		SM 4500 Cl- E		2 mL	2 mL			# mL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 631684 Batch Start Date: 06/26/22 10:36 Batch Analyst: Zahniser, Ian M

Batch Method: SM 4500 Cl- E Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WC1000ClStk 00024	WC25ppmChlInt 00163	WC25ppmChlInt 00164	
LCS 480-631684/103		SM 4500 Cl- E		2 mL	2 mL			# mL	
CCB 480-631684/104		SM 4500 Cl- E		2 mL	2 mL				
MB 480-631684/105		SM 4500 Cl- E		2 mL	2 mL				
480-198813-J-3 MS	MW-2B	SM 4500 Cl- E	T	2 mL	2 mL	0.04 mL			
480-198813-J-3 MSD	MW-2B	SM 4500 Cl- E	T	2 mL	2 mL	0.04 mL			
480-198813-J-3	MW-2B	SM 4500 Cl- E	T	2 mL	2 mL				
CCV 480-631684/111		SM 4500 Cl- E		2 mL	2 mL			# mL	
CCB 480-631684/113		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-631684/122		SM 4500 Cl- E		2 mL	2 mL			# mL	
CCB 480-631684/124		SM 4500 Cl- E		2 mL	2 mL				
MB 480-631684/125		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-631684/126		SM 4500 Cl- E		2 mL	2 mL			# mL	
LCS 480-631684/127		SM 4500 Cl- E		2 mL	2 mL			# mL	
CCB 480-631684/128		SM 4500 Cl- E		2 mL	2 mL				
MB 480-631684/129		SM 4500 Cl- E		2 mL	2 mL				
480-198813-J-2	MW-2A	SM 4500 Cl- E	T	2 mL	2 mL				
480-198813-J-5	MW-3B	SM 4500 Cl- E	T	2 mL	2 mL				
480-198813-J-6	MW-4A	SM 4500 Cl- E	T	2 mL	2 mL				
480-198813-J-7	MW-5A	SM 4500 Cl- E	T	2 mL	2 mL				
480-198813-J-8	MW-6A	SM 4500 Cl- E	T	2 mL	2 mL				
480-198813-J-9	MW-6B	SM 4500 Cl- E	T	2 mL	2 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 631684 Batch Start Date: 06/26/22 10:36 Batch Analyst: Zahniser, Ian M

Batch Method: SM 4500 Cl- E Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WC1000ClStk 00024	WC25ppmChlInt 00163	WC25ppmChlInt 00164	
480-198813-J-10	MW-7A	SM 4500 Cl- E	T	2 mL	2 mL				
CCV 480-631684/138		SM 4500 Cl- E		2 mL	2 mL			# mL	
LCS 480-631684/139		SM 4500 Cl- E		2 mL	2 mL			# mL	
CCB 480-631684/140		SM 4500 Cl- E		2 mL	2 mL				
MB 480-631684/141		SM 4500 Cl- E		2 mL	2 mL				
480-198720-L-1	CD-1	SM 4500 Cl- E	T	2 mL	2 mL				
480-198813-J-4 MS	MW-3A	SM 4500 Cl- E	T	2 mL	2 mL	0.04 mL			
480-198813-J-4 MSD	MW-3A	SM 4500 Cl- E	T	2 mL	2 mL	0.04 mL			
480-198813-J-4	MW-3A	SM 4500 Cl- E	T	2 mL	2 mL				
CCV 480-631684/148		SM 4500 Cl- E		2 mL	2 mL			# mL	
CCB 480-631684/150		SM 4500 Cl- E		2 mL	2 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629154 Batch Start Date: 06/07/22 18:52 Batch Analyst: Stone, Chandler S

Batch Method: SM 5210B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	ResidualChloCheck	NaSulfiteAmtAdd	InitialTemp	Final pH	InitialAmount
USB 480-629154/1		SM 5210B		N/A SU	0	0 mL	N/A Celsius	N/A SU	300 mL
LCS 480-629154/2		SM 5210B		N/A SU	0	0 mL	N/A Celsius	N/A SU	300 mL
480-198720-A-1	CD-1	SM 5210B	T	8.17 SU	0	0 mL	22.1 Celsius	7.06 SU	300 mL
480-198720-A-2	CD-1RA	SM 5210B	T	7.98 SU	0	0 mL	22.1 Celsius	7.98 SU	300 mL
480-198720-A-3	MW-1B	SM 5210B	T	8.22 SU	0	0 mL	22.1 Celsius	7.10 SU	300 mL
480-198720-A-4	DUP CD-1RA	SM 5210B	T	7.96 SU	0	0 mL	22.3 Celsius	7.96 SU	300 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	GGA 00015				
USB 480-629154/1		SM 5210B		300 mL					
LCS 480-629154/2		SM 5210B		300 mL	6 mL				
480-198720-A-1	CD-1	SM 5210B	T	300 mL					
480-198720-A-2	CD-1RA	SM 5210B	T	300 mL					
480-198720-A-3	MW-1B	SM 5210B	T	300 mL					
480-198720-A-4	DUP CD-1RA	SM 5210B	T	300 mL					

Batch Notes	
Seed ID	6829297
Nutrient Buffer Pillow ID	6824481
Sulfuric Acid ID	6911418
Sodium Hydroxide ID	6306289
Incubator ID	2
Uncorrected Incubator Temp - Initial	19.3 Celsius
Corrected Incubator Temp - Initial	19.4 Celsius
Uncorrected Incubator Temp - Final	20.2 Celsius
Corrected Incubator Temp - Final	20.3 Celsius
Thermometer ID	2

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629154 Batch Start Date: 06/07/22 18:52 Batch Analyst: Stone, Chandler S

Batch Method: SM 5210B Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629517 Batch Start Date: 06/09/22 15:30 Batch Analyst: Stone, Chandler S

Batch Method: SM 5210B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	ResidualChloCheck	InitialTemp	Final pH	InitialAmount	FinalAmount
USB 480-629517/1		SM 5210B		N/A SU	N/A	N/A Celsius	N/A SU	300 mL	300 mL
LCS 480-629517/2		SM 5210B		N/A SU	N/A	N/A Celsius	N/A SU	300 mL	300 mL
480-198813-A-1	MW-1A	SM 5210B	T	7.96 SU	N/A	22.0 Celsius	7.96 SU	300 mL	300 mL
480-198813-A-2	MW-2A	SM 5210B	T	6.55 SU	N/A	20.7 Celsius	6.55 SU	300 mL	300 mL
480-198813-A-3	MW-2B	SM 5210B	T	6.71 SU	N/A	19.9 Celsius	6.71 SU	300 mL	300 mL
480-198813-A-4	MW-3A	SM 5210B	T	6.98 SU	N/A	20.7 Celsius	6.98 SU	300 mL	300 mL
480-198813-A-5	MW-3B	SM 5210B	T	7.64 SU	N/A	21.9 Celsius	7.64 SU	300 mL	300 mL
480-198813-A-6	MW-4A	SM 5210B	T	7.03 SU	N/A	22.0 Celsius	7.03 SU	300 mL	300 mL
480-198813-A-6 DU	MW-4A	SM 5210B	T	7.03 SU	N/A	22.1 Celsius	7.03 SU	100 mL	300 mL
480-198813-A-7	MW-5A	SM 5210B	T	8.25 SU	N/A	21.4 Celsius	7.04 SU	300 mL	300 mL
480-198813-A-8	MW-6A	SM 5210B	T	6.59 SU	N/A	20.7 Celsius	6.59 SU	300 mL	300 mL
480-198813-A-9	MW-6B	SM 5210B	T	6.78 SU	N/A	20.8 Celsius	6.78 SU	300 mL	300 mL
480-198813-A-10	MW-7A	SM 5210B	T	6.70 SU	N/A	21.5 Celsius	6.70 SU	300 mL	300 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	GGA 00015					
USB 480-629517/1		SM 5210B							
LCS 480-629517/2		SM 5210B		6 mL					
480-198813-A-1	MW-1A	SM 5210B	T						
480-198813-A-2	MW-2A	SM 5210B	T						
480-198813-A-3	MW-2B	SM 5210B	T						
480-198813-A-4	MW-3A	SM 5210B	T						
480-198813-A-5	MW-3B	SM 5210B	T						
480-198813-A-6	MW-4A	SM 5210B	T						
480-198813-A-6 DU	MW-4A	SM 5210B	T						
480-198813-A-7	MW-5A	SM 5210B	T						
480-198813-A-8	MW-6A	SM 5210B	T						
480-198813-A-9	MW-6B	SM 5210B	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629517 Batch Start Date: 06/09/22 15:30 Batch Analyst: Stone, Chandler S

Batch Method: SM 5210B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	GGA 00015					
480-198813-A-10	MW-7A	SM 5210B	T						

Batch Notes	
Seed ID	6946637
Nutrient Buffer Pillow ID	6824481
Incubator ID	3

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629854 Batch Start Date: 06/13/22 14:45 Batch Analyst: Rosenberg, Katherine E

Batch Method: Filtration Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	TOC_LCS 00213					
LCS 480-629854/2		Filtration, SM 5310C		# mL					

Batch Notes	
Filter ID	16831089

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 629996 Batch Start Date: 06/13/22 17:39 Batch Analyst: Rosenberg, Katherine E

Batch Method: SM 5310C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Res1&2RPD	RPDOK	TOC_Ag1000 00007	TOC_CCV 00214
ICV 480-629996/2		SM 5310C				6 %	TOC Pass		# mL
ICB 480-629996/3		SM 5310C				123 %	TOC Fail		
CCV 480-629996/26		SM 5310C				6 %	TOC Pass		# mL
CCB 480-629996/27		SM 5310C				200 %	TOC Fail		
MB 480-629996/28		SM 5310C					TOC Pass		
LCS 480-629996/29		SM 5310C				7 %	TOC Pass		
480-198720-Q-1	CD-1	SM 5310C	T			36 %	TOC Fail		
480-198720-Q-2	CD-1RA	SM 5310C	T			77 %	TOC Fail		
480-198720-Q-3	MW-1B	SM 5310C	T			14 %	TOC Fail		
480-198720-Q-4	DUP CD-1RA	SM 5310C	T			20 %	TOC Fail		
CCV 480-629996/38		SM 5310C				9 %	TOC Pass		# mL
CCB 480-629996/39		SM 5310C				121 %	TOC Fail		
CCVL 480-629996/72		SM 5310C		39.96 mL	40 mL	12 %	TOC Fail	0.04 mL	

Batch Notes	
Acid ID	7003480
Phosphoric Acid ID	6997292
Sodium Persulfate ID	6987143
Pipette/Syringe/Dispenser ID	M43072G

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 630302 Batch Start Date: 06/15/22 10:58 Batch Analyst: Rosenberg, Katherine E

Batch Method: SM 5310C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Res1&2RPD	RPDOK	TOC_Ag1000 00008	TOC_CCV 00214
ICV 480-630302/2		SM 5310C				1 %	TOC Pass		# mL
ICB 480-630302/3		SM 5310C					TOC Pass		
MB 480-630302/4		SM 5310C					TOC Pass		
LCS 480-630302/5		SM 5310C				4 %	TOC Pass		
480-198813-Q-1	MW-1A	SM 5310C	T				TOC Pass		
480-198813-P-2 MS		SM 5310C	T	21.5 mL	22 mL	2 %	TOC Pass	0.5 mL	
480-198813-P-2 MSD		SM 5310C	T	21.5 mL	22 mL	1 %	TOC Pass	0.5 mL	
CCV 480-630302/14		SM 5310C				1 %	TOC Pass		# mL
CCB 480-630302/15		SM 5310C					TOC Pass		
480-198813-P-7	MW-5A	SM 5310C	T			6 %	TOC Pass		
CCV 480-630302/26		SM 5310C				1 %	TOC Pass		# mL
CCB 480-630302/27		SM 5310C					TOC Pass		
MB 480-629854/1-A		SM 5310C				5 %	TOC Pass		
LCS 480-629854/2-A		SM 5310C				1 %	TOC Pass		
CCV 480-630302/38		SM 5310C				1 %	TOC Pass		# mL
CCB 480-630302/39		SM 5310C					TOC Pass		
CCVL 480-630302/87		SM 5310C		39.96 mL	40 mL	52 %	TOC Fail	0.04 mL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	TOC_LCS 00213					
ICV 480-630302/2		SM 5310C							
ICB 480-630302/3		SM 5310C							
MB 480-630302/4		SM 5310C							
LCS 480-630302/5		SM 5310C		# mL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 630302 Batch Start Date: 06/15/22 10:58 Batch Analyst: Rosenberg, Katherine E

Batch Method: SM 5310C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	TOC_LCS 00213					
480-198813-Q-1	MW-1A	SM 5310C	T						
480-198813-P-2 MS		SM 5310C	T						
480-198813-P-2 MSD		SM 5310C	T						
CCV 480-630302/14		SM 5310C							
CCB 480-630302/15		SM 5310C							
480-198813-P-7	MW-5A	SM 5310C	T						
CCV 480-630302/26		SM 5310C							
CCB 480-630302/27		SM 5310C							
MB 480-629854/1-A		SM 5310C							
LCS 480-629854/2-A		SM 5310C							
CCV 480-630302/38		SM 5310C							
CCB 480-630302/39		SM 5310C							
CCVL 480-630302/87		SM 5310C							

Batch Notes	
Acid ID	7003480
Phosphoric Acid ID	6967027
Sodium Persulfate ID	6987151
Pipette/Syringe/Dispenser ID	M43072G

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 630732 Batch Start Date: 06/17/22 12:53 Batch Analyst: Rosenberg, Katherine E

Batch Method: SM 5310C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TOC_Ag1000 00008	TOC_CCV 00214	TOC_LCS 00213	
CCV 480-630732/50		SM 5310C					# mL		
LCS 480-630732/53		SM 5310C						# mL	
CCV 480-630732/62		SM 5310C					# mL		
CCV 480-630732/74		SM 5310C					# mL		
CCVL 480-630732/82		SM 5310C		39.96 mL	40 mL	0.04 mL			

Batch Notes	
Acid ID	7003480
Phosphoric Acid ID	6997294
Sodium Persulfate ID	6987149
Pipette/Syringe/Dispenser ID	M43072G

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 631325 Batch Start Date: 06/22/22 11:06 Batch Analyst: Rosenberg, Katherine E

Batch Method: SM 5310C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	Res1&2RPD	RPDOK	TOC_CCV 00214	TOC_LCS 00213		
CCV 480-631325/26		SM 5310C		0 %	TOC Pass	# mL			
CCB 480-631325/27		SM 5310C			TOC Pass				
MB 480-631325/28		SM 5310C			TOC Pass				
LCS 480-631325/29		SM 5310C		0 %	TOC Pass		# mL		
CCV 480-631325/38		SM 5310C		0 %	TOC Pass	# mL			
CCB 480-631325/39		SM 5310C			TOC Pass				
480-198813-Q-2	MW-2A	SM 5310C	T	0 %	TOC Pass				
480-198813-P-3	MW-2B	SM 5310C	T	4 %	TOC Pass				
CCV 480-631325/50		SM 5310C		1 %	TOC Pass	# mL			
CCB 480-631325/51		SM 5310C			TOC Pass				
MB 480-631325/52		SM 5310C			TOC Pass				
LCS 480-631325/53		SM 5310C		1 %	TOC Pass		# mL		
480-198813-P-4	MW-3A	SM 5310C	T	2 %	TOC Pass				
480-198813-P-5	MW-3B	SM 5310C	T	6 %	TOC Pass				
480-198813-P-6	MW-4A	SM 5310C	T	12 %	TOC Fail				
480-198813-P-9	MW-6B	SM 5310C	T	1 %	TOC Pass				
CCV 480-631325/62		SM 5310C		0 %	TOC Pass	# mL			
CCB 480-631325/63		SM 5310C			TOC Pass				

Batch Notes	
Acid ID	7003480
Phosphoric Acid ID	6997294
Sodium Persulfate ID	7043269
Pipette/Syringe/Dispenser ID	M43072G

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Batch Number: 631325 Batch Start Date: 06/22/22 11:06 Batch Analyst: Rosenberg, Katherine E

Batch Method: SM 5310C Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Subcontract Data

Shipping and Receiving Documents

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Syracuse #225

Client Information	Sampler: Kathy McGrath	Lab PM: Hartmann, Steve	Carrier Tracking No(s):	COC No: 480-173662-13274.1
Client Contact: Ms. Kathleen McGrath	Phone:	E-Mail: Steve.Hartmann@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: Cortland Cty Soil & Water Cons District	PWSID:			Job #:
Address: 100 Grange Place Rm 202	Due Date Requested:			
City: Cortland	TAT Requested (days): Normal			
State, Zip: NY, 13045	Compliance Project: Δ Yes Δ No			
Phone: 607-345-4624(Tel)	PO #: Purchase Order not required			
Email: kathleen.mcgrath@cortlandswcd.org	WO #:			
Project Name: Cortland Landfill/ Event Desc: Towslee Landfill - Baseline	Project #: 48009337			
Site: New York	SSOW#:			

480-198720 Chain of Custody

I - Ice U - Acetone
J - DI Water V - MCAA
K - EDTA
L - EDA
Other:

SHORT HOLD

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - Bromide	350.1, 351.2, 410.4	6010C, 7470A, SM2340B	8260C - NY Part 360 Baseline Volatiles	5210B - Biochemical Oxygen Demand	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) pH,Cond,Temp,Turb	2120B, 353.2, 353.2_Nitrite, 9038, Nitrate_Calc, SM4500_Cl_E	7196A - Chromium, hexavalent	310.2 - Alkalinity, Total	6310C - Total Organic Carbon	335.4 - Cyanide	420.4_NP - Total Phenolics	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	S	D	A	N	N	N	N	N	N	A	B	S		
CD-1	6/6/22	1:20	G	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X		Dissolved Metals
CD-1RA	6/6/22	12:10	G	Water	N	Y	X	X	X	X	X	X	X	X	X	X	X	X	X		Dissolved Metals
MW-1A				Water																	
MW-1B	6/6/22	2:40	G	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X		
MW-2A				Water																	
MW-2B				Water																	
MW-3A				Water																	
MW-3B				Water																	
MW-4A				Water																	
MW-5A				Water																	
MW-6A				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
Kathy McGrath	6/6/22 5:10			6/6/22 1710	ES-SYR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
	6-6-22, 1900			6/7/22 1000	TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 2.8, 2.5, 2.3

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Syracuse #225

Client Information	Sampler: K McGrath	Lab PM: Hartmann, Steve	CarrierTracking No(s):	COC No: 480-173662-13274.2
Client Contact: Ms. Kathleen McGrath	Phone:	E-Mail: Steve.Hartmann@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: Cortland Cty Soil & Water Cons District	PWSID:			Job #:

Address: 100 Grange Place Rm 202	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Cortland	TAT Requested (days): Normal		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: NY, 13045	Compliance Project: Δ Yes Δ No		
Phone: 607-345-4624(Tel)	PO #: Purchase Order not required		
Email: kathleen.mcgrath@cortlandswcd.org	WO #:		
Project Name: Cortland Landfill/ Event Desc: Towslee Landfill - Baseline	Project #: 48009337		Other:
Site: New York	SSOW#:		

SHORT HOLD

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - Bromide	350.1, 351.2, 410.4	6010C, 7470A, SM2340B	8260C - NY Part 360 Baseline Volatiles	5210B - Biochemical Oxygen Demand	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) pH,Cond,Temp,Turb	2120B, 353.2, 353.2_Nitrite, 9038, Nitrate_Calc, SM4500_Cl_E	7196A - Chromium, hexavalent	310.2 - Alkalinity, Total	5310C - Total Organic Carbon	335.4 - Cyanide	420.4_NP - Total Phenolics	Total Number of containers	Special Instructions/Note:
Preservation Code:					X	X	N	S	D	A	N	N	N	N	N	N	A	B	S		
MW-6B				Water																	
MW-7A				Water																	
DUP CDIRA	6/6/22	12:10	G	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X		Dissolved Metals
Trip Blank 1	6/6/22			Water																	
Trip Blank 2				Water																	

6-7-22

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Kathy McGrath	6/6/22 5:10			6/6/22 1710	ES SY
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	6/6/22, 1900		C Wallace	6/7/22 1000	TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 2.0, 2.5, 2.3

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Syracuse #225

Client Information	Sampler: Kathleen McGrath	Lab PM: Hartmann, Steve	Carrier Tracking No(s):	COC No: 480-174490-29826.1
Client Contact: Ms. Kathleen McGrath	Phone:	E-Mail: Steve.Hartmann@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Cortland Cty Soil & Water Cons District	PWSID:			Job #:

Address: 100 Grange Place Rm 202	Due Date Requested:
City: Cortland	TAT Requested (days): Normal
State, Zip: NY, 13045	Compliance Project: Δ Yes Δ No
Phone: 607-345-4624(Tel)	PO #: Purchase Order not required
Email: kathleen.mcgrath@cortlandswcd.org	WO #:
Project Name: Cortland Landfill	Project #: 48009337
Site: New York	SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - PFAS, Standard List (21 Analytes)	8270D_SIM_MS_ID - 1,4-Dioxane	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	X	
CD-1	6/6/22	1:20	G	Water	N	N	X	X		
CD-1RA	6/6/22	12:40	G	Water	N	N	X	X		
MW-1A				Water						
MW-1B	6/6/22	2:40	G	Water	N	N	X	X		
MW-2A				Water						
MW-2B				Water						
MW-6A				Water						
MW-6B				Water						

480-198722 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Kathy McGrath	Date/Time: 6/6/22 5:10	Company	Received by:	Date/Time: 6/6/22 1710	Company ES-SYR
Relinquished by: R English	Date/Time: 6-7-22, 1500	Company ES	Received by: Cwatkins	Date/Time: 6/7/22 1000	Company TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 3.0

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information

Client Contact: Ms. Kathleen McGrath	Sampler: K McGrath	Lab PM: Hartmann, Steve	Carrier Tracking No(s): Syracuse #225	COC No: 480-173662-13274.1
Company: Cortland Cty Soil & Water Cons District	Phone:	E-Mail: Steve.Hartmann@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Address: 100 Grange Place Rm 202	PWSID:	Due Date Requested:		Job #:
City: Cortland		TAT Requested (days): normal		
State, Zip: NY, 13045		Compliance Project: Δ Yes Δ No		
Phone: 607-345-4624(Tel)		PO #: Purchase Order not required		
Email: kathleen.mcgrath@cortlandswcd.org		WO #:		
Project Name: Cortland Landfill/ Event Desc: Towslee Landfill - Baseline		Project #: 48009337		
Site: New York		SSOW#:		

480-198813 Chain of Custody

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - Bromide	350.1, 351.2, 410.4	6010C, 7470A, SM2340B	8260C - NY Part 360 Baseline Volatiles	5210B - Biochemical Oxygen Demand	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) pH,Cond,Temp,Turb	2120B, 353.2, 353.2_Nitrite, 9038, Nitrate_Calc, SM4500_Cl_E	7196A - Chromium, hexavalent	310.2 - Alkalinity, Total	5310C - Total Organic Carbon	335.4 - Cyanide	420.4_NP - Total Phenolics	Total Number of containers	Special Instructions/Note:
				Preservation Code:			N	S	D	A	N	N	N	N	N	N	A	B	S		
CD-1				Water																	
CD-1RA				Water																	
MW-1A	6/8/22	10:15	G	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X		
MW-1B				Water																	
MW-2A	6/8/22	10:45	G	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X		+ diss metals 6010C
MW-2B	6/8/22	11:15	G	Water	N	N													X		
MW-3A	6/8/22	8:30	G	Water	N	N													X		
MW-3B	6/8/22	8:45	G	Water	N	N													X		
MW-4A	6/8/22	9:15	G	Water	N	N													X		
MW-5A	6/8/22	9:30	G	Water	N	N													X		
MW-6A	6/8/22	11:55	G	Water	N	N													X		+ diss metals 6010C

I - Ice; J - DI Water; K - EDTA; L - EDA; U - Acetone; V - MCAA; Other:

SHORT HOLD

Page 6312 of 6320

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: K McGrath	Date/Time: 6/8/22 3:20	Company	Received by:	Date/Time: 6/8/22 1520	Company
Relinquished by: Reinglass	Date/Time: 6-8-22, 1900	Company	Received by:	Date/Time: 6/9/22 9:18 TA	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.0 3.3 3.2 1.8 2.1 4 3.1 3.2 1.6 #1 ICE

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information

Client Contact: Ms. Kathleen McGrath	Sampler: KMcGrath	Lab PM: Hartmann, Steve	Carrier Tracking No(s): Syracuse #225
Company: Cortland Cty Soil & Water Cons District	Phone:	E-Mail: Steve.Hartmann@et.eurofinsus.com	State of Origin:
Address: 100 Grange Place Rm 202	PWSID:	Due Date Requested:	COC No: 480-173662-13274.2
City: Cortland		TAT Requested (days): Normal	Page: Page 2 of 2
State, Zip: NY, 13045		Compliance Project: Δ Yes Δ No	Job #:
Phone: 607-345-4624(Tel)		PO #: Purchase Order not required	
Email: kathleen.mcgrath@cortlandswcd.org		WO #:	
Project Name: Cortland Landfill/ Event Desc: Towslee Landfill - Baseline		Project #: 48009337	
Site: New York		SSOW#:	

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

SHORT HOLD

Special Instructions/Note:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - Bromide	350.1, 351.2, 410.4	6010C, 7470A, SM2340B	8260C - NY Part 360 Baseline Volatiles	5210B - Biochemical Oxygen Demand	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) pH,Cond,Temp,Turb	2120B, 353.2, 353.2_Nitrite, 9038, Nitrate_Calc, SM4500_Cl_E	7196A - Chromium, hexavalent	310.2 - Alkalinity, Total	5310C - Total Organic Carbon	335.4 - Cyanide	420.4_NP - Total Phenolics	Total Number of containers	
			Preservation Code:				N	S	D	A	N	N	N	N	N	N	A	B	S		
MW-6B	6/8/22	12:15	G	Water	2	2	X	X	X	X	X	X	X	X	X	X	X	X	X		
MW-7A	6/8/22	1:15	G	Water	2	2	X	X	X	X	X	X	X	X	X	X	X	X	X		Diss mtls 6010C
DUP				Water																	
Trip Blank 1	6/8/22	8:30	G	Water	2	2															
Trip Blank 2				Water																	

Re-
6-8-22

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by: KMcGrath	Date/Time: 6/8/22 3:20	Company	Received by:	Date/Time: 6/8/22 1520	Company ES-Sx
Relinquished by: R.Engling	Date/Time: 6-8-22, 1900	Company Eyc	Received by: PGI	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information

Client Contact: Ms. Kathleen McGrath	Sampler: Kathleen McGrath	Lab PM: Hartmann, Steve	Carrier Tracking No(s): Syracuse #225	COC No: 480-174490-29826.1
Company: Cortland Cty Soil & Water Cons District	Phone:	E-Mail: Steve.Hartmann@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Address: 100 Grange Place Rm 202	PWSID:	Analysis Requested		Job #:
City: Cortland	Due Date Requested:			
State, Zip: NY, 13045	TAT Requested (days): Normal			
Phone: 607-345-4624(Tel)	Compliance Project: Δ Yes Δ No			
Email: kathleen.mcgrath@cortlandswcd.org	PO #: Purchase Order not required			
Project Name: Cortland Landfill	WO #:			
Site: New York	Project #: 48009337			
	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3

480-198818 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - PFAS, Standard List (21 Analytes)	8270D_SIM_MS_ID - 1,4-Dioxane	Total Nu	Special Instructions/Note:
			Preservation Code:				N	N		
CD-1				Water						
CD-1RA				Water						
MW-1A	6/8/22	10:30	G	Water	N	N	X	X		
MW-1B				Water						
MW-2A	6/8/22	10:45	G	Water	N	N	X	X		
MW-2B		11:15	G	Water	N	N	X	X		
MW-6A		11:55	G	Water	N	N	X	X		
MW-6B		12:15	G	Water	N	N	X	X		

6-8-22

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by: K McGrath	Date/Time: 6/8/22 3:20	Company	Received by:	Date/Time: 6/8/22 1520	Company ES-SYR	
Relinquished by: Realgun	Date/Time: 6-8-22/1900	Company	Received by: Unknown Lab ID	Date/Time: 6/9/22 900	Company TA	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.4 #1 ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Cortland Cty Soil & Water Cons District

Job Number: 480-198720-1
SDG Number: 198720

Login Number: 198720
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background		
The cooler's custody seal, if present, is intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the sample IDs on the containers and the COC.		
Samples are received within Holding Time (Excluding tests with immediate HTs)..		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.		
If necessary, staff have been informed of any short hold time or quick TAT needs		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Sampling Company provided.		
Samples received within 48 hours of sampling.		
Samples requiring field filtration have been filtered in the field.		
Chlorine Residual checked.		

Login Sample Receipt Checklist

Client: Cortland Cty Soil & Water Cons District

Job Number: 480-198720-1
SDG Number: 198720

Login Number: 198722
List Number: 1
Creator: Yeager, Brian A

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CORTLAND
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Cortland Cty Soil & Water Cons District

Job Number: 480-198720-1
SDG Number: 198720

Login Number: 198722
List Number: 2
Creator: Cunningham, Caroline R

List Source: Eurofins Burlington
List Creation: 06/08/22 04:46 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1979526, -525, -524
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2ºC, 1.7ºC, 0.7ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Cortland Cty Soil & Water Cons District

Job Number: 480-198720-1
SDG Number: 198720

Login Number: 198813
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Cortland Cty Soil & Water Cons District

Job Number: 480-198720-1
SDG Number: 198720

Login Number: 198818
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Cortland Cty Soil & Water Cons District

Job Number: 480-198720-1
SDG Number: 198720

Login Number: 198818
List Number: 2
Creator: Khudaier, Zahraa

List Source: Eurofins Burlington
List Creation: 06/10/22 01:18 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1979542
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.9ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix B

Data Validation Report

Towslee Landfill, Cortland County

DATA VALIDATION
BASELINE PARAMETERS MONITORING
TOWSLEE LANDFILL

Collected June 2022
Volatile Organics
Metals
Leachate Indicators

Prepared for:
CORTLAND COUNTY SOIL and WATER CONSERVATION DISTRICT
100 Grange Place, Room 202
Cortland, NY 13045

Prepared by:

DATAVAL, Inc.
201 West Genesee Street, PMB 273
Fayetteville, NY 13066

DATA ASSESSMENT

A sample delivery group containing analytical results for 14 aqueous samples was received from TestAmerica-Buffalo on 11Jul22. The samples were collected from the Cortland County Towslee Landfill site between 06Jun22 and 08Jun22, as required by 6 NYCRR Part 360 (10/94). The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information for Baseline Parameters Monitoring. CD-1, CD-1RA, DUP-CD-1RA, MW-2A, MW-6A and MW-7A were also analyzed for dissolved metals. The samples were identified by Chain of Custody documents and trackable through the work of TestAmerica-Buffalo, the laboratory contracted for analysis. Laboratory data was evaluated according to the Quality Assurance / Quality Control Requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol, September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-33, Rev. #3, March 2013, Low/Medium Volatile Data Validation, and SOP HW-2a, Rev. 15, December 2012, ICP-AES Data Validation) were used as a technical reference.

To satisfy the requirement for 5% data validation, data calculations relating to CD-1 were examined in detail. All of the available QA/QC information was then applied to an evaluation of each program sample.

Four samples were collected on 06Jun22 and ten were collected on 08Jun22. Each group of samples was packaged with a trip blank and delivered to the Syracuse office of Eurofins on the day of collection. They were then shipped to the Buffalo laboratory, via FedEx, and were received the next day.

At the time of receipt, the sample coolers were found to be intact and properly chilled. Fourteen cooler temperatures ranging between 2.8°C and 4.0°C were recorded at that time.

Proper sample preservation was documented in the field custody records and verified in the laboratory at the time of receipt. A pH<2 was obtained from each VOC sample at the time of analysis, documenting that each VOC sample was properly stabilized.

Laboratory analyses were well organized and supported by the raw data. Each analysis incorporated the QA/QC requirements of ASP protocol. Areas where ASP requirements were not completely satisfied are addressed below. A detailed discussion of the review process follows.

LEACHATE INDICATORS

Test methods for the determination of Leachate Indicators utilize classical wet chemistry techniques. These methods were performed well and demonstrated an acceptable level of quality control. Areas of concern are addressed below.

It is noted that the laboratory instruments used for the analysis of alkalinity, TKN, sulfate and chloride were programmed to produce results in units of concentration, directly. Instrument response was not provided. This made it impossible to verify the calculations used to obtain the reported concentrations of these analytes.

HOLDING TIME

The samples from SDG 480-198813 were collected on 06Jun22 and analyzed on 22Jun22. This exceeded the program's fourteen-day holding time limitation by two days. The alkalinity results from SDG 480-198813 have been qualified as estimations due to this error.

BLANKS

Alkalinity

Although one instrument blank contained 5.31 mg/l of alkalinity, data qualifications are not required because five clean blanks separated the contaminated blank from the analysis of the first program sample.

Cyanide

A cyanide method blank that was associated with this group of samples produced a concentration of 0.010 mg/l. A similar artifact was found in MW-1B (0.011 mg/l). Cyanide should be interpreted as undetected in this sample and a detection limit equaling the reported concentration should be assumed.

CALIBRATION

Chloride

Poor performance was reported for one initial chloride calibration standard (ICV) and one low level chloride check standard (CCVL). Although these standards produced positive results, both were reported as negative. These issues are not considered significant, however, because both standards were separated from program samples by at least ten check standards (CCV) that were recovered successfully.

Total Organic Carbon (TOC)

Two low level TOC standards that were associated with this delivery group produced unacceptable recoveries of 59% and 170%. Based on this performance, the TOC results from this project have been qualified as estimations.

SPIKES

Alkalinity and Total Kjeldahl Nitrogen (TKN)

CD-1 was spiked with alkalinity and TKN was added to MW-2A. In each of these cases the concentration found in the original sample exceeded four times the level of the added spike. Based on these observations, the associated alkalinity and TKN results have been left unqualified.

Cyanide and Phenolics

CD-1 was spiked with phenolics and cyanide was added to MW-1B. Both of these spiked samples produced low recoveries. Based on

this performance, the phenolics and cyanide results from SDG 480-198720 have been qualified as estimations.

Sulfate and Chloride
MW-2S was spiked with chloride and sulfate was added to MW-6A. The chloride spike produced a recovery of 60% and sulfate produced a result of 136%. Based on these indications of bias, the chloride and sulfate results from SDG 480-198813 have been qualified as estimations.

INORGANICS

The analysis of each metal was associated with the appropriate quality control checks, as defined by ASP protocol. The QC associated with this group of samples satisfied most of these requirements. The exceptions are addressed below.

Blanks
Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Preparation blanks are carried through the digestion process with each group of samples to evaluate general laboratory technique. Calibration blanks are run periodically to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

An initial blank (ICB) was analyzed following the calibration in each analytical sequence. Additional blanks were analyzed after every ten samples (CCB) and at the end of each sequence. A preparation blank was digested and analyzed with this group of samples. These blanks produced one barium result that exceeded the laboratory's reporting limit. This indication of positive bias, however, warrants no concern because the barium concentrations found in this group of samples exceeded the range requiring data qualifications.

VOLATILE ORGANIC ANALYTES

Each VOA analysis incorporates several quality assurance checks to demonstrate the precision and accuracy of laboratory measurements. These include the addition of surrogates and internal standards to every calibration standard, blank and program sample. A matrix spiked sample, a matrix spiked duplicate, and a spiked blank are also analyzed with each group of samples. ASP protocol defines acceptance criteria for each of these evaluations. Most of these requirements were satisfied. The exceptions are addressed below.

Matrix Spikes
Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

Although a sample from this delivery group was not selected for matrix spiking, three spiked blanks (LCS/LCSD,LCS) were analyzed with this group of samples. These spiked blanks produced high recoveries of 2-butanone (171%,170%) and vinyl acetate (143%,138%). These indications of positive bias, however, warrant no concern because 2-butanone and vinyl acetate were not detected in the samples from this project.

CORRECTNESS AND USABILITY

Data from this group of samples is felt to be technically correct and completely usable in its present form. Data presenting a usable estimation of the conditions at the time of sampling has been flagged "J" or "UJ". Estimated data should be used with caution.

Two facts should be considered by all data users. No compound concentration, even if it has passed all QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James G Baldwin Date: 27 Jul 22

James Baldwin
DATAVAL, Inc.

CORTLAND COUNTY SOIL & WATER CONSERVATION DISTRICT
TOWSLEE LANDFILL
QUALIFIED DATA
SAMPLED JUNE 2022

	HOLD TIME ALKALINITY	BLANK CYANIDE	CALIBRATE TOC	SPIKE CYANIDE	SPIKE PHENOLICS	SPIKES CHLORIDE	SPIKE SULFATE
SDG 480-198720							
CD-1			1.0UJ	0.010UJ	0.010UJ		
CD-1dis							
CD-1RA			1.0UJ	0.010UJ	0.010UJ		
CD-1RAdis							
MW-1B		0.011U	1.0UJ	0.010UJ	0.010UJ		
DUP-CD-1RA			1.0UJ	0.010UJ	0.010UJ		
DUP-CD-1RAdis							
TRIP BLANK-1							
SDG 480-198813							
MW-1A	149J		1.0UJ			35.1J	18.3J
MW-2A	378J		6.5J			19.3J	5.0UJ
MW-2Adis							
MW-2B	650J		4.0J			75.3J	5.0UJ
MW-3A	191J		1.5J			3.9J	5.0UJ
MW-3B	194J		3.0J			21.0J	11.8J
MW-4A	236J		1.1J			10.6J	5.0UJ
MW-5A	171J		1.0UJ			4.5J	17.7J
MW-6A	200J		5.7J			78.8J	5.0UJ
MW-6Adis							
MW-6B	160J		7.0J			77.2J	15.0J
MW-7A	445J		8.0J			19.4J	5.0UJ
MW-7Adis							
TRIP BLANK-1							

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CD-1 | Lab Sample ID: 480-198720-1

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG ID.: 198720

Matrix: Water | Date Sampled: 06/06/2022 13:20

Reporting Basis: WET | Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	22.7	20.0		mg/L			2	310.2
	Alkalinity, Total	120	30.0		mg/L		H	3	310.2
57-12-5	Cyanide, Total	~~ND~~	UJ 0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.90	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	~~ND~~	UJ 0.010		mg/L		F1	1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	15.6	5.0		mg/L			1	9038
	Total Dissolved Solids	173	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	ND	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L		*+	1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	~~ND~~	UJ 1.0		mg/L			1	SM 5310C
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CD-1 | Lab Sample ID: 480-198720-1

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG ID.: 198720

Matrix: Water | Date Sampled: 06/06/2022 13:20

Reporting Basis: WET | Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	15.0	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CD-1RA
Lab Sample ID: 480-198720-2
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/06/2022 12:10
Reporting Basis: WET
Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	137	30.0		mg/L			3	310.2
57-12-5	Cyanide, Total	~~ND~~	UJ 0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.25	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	~~ND~~	UJ 0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	17.5	5.0		mg/L			1	9038
	Total Dissolved Solids	166	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	2.0	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L		*+	1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	~~ND~~	UJ 1.0		mg/L			1	SM 5310C
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CD-1RA
Lab Sample ID: 480-198720-2
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/06/2022 12:10
Reporting Basis: WET
Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-1B
Lab Sample ID: 480-198720-3
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/06/2022 14:40
Reporting Basis: WET
Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	110	30.0		mg/L			3	310.2
57-12-5	Cyanide, Total	0.011 UJ	0.010		mg/L		F1	1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	ND	0.20		mg/L		*+	1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	~~ND~~ UJ	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	12.9	5.0		mg/L			1	9038
	Total Dissolved Solids	147	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	14.2	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L		*+	1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	~~ND~~ UJ	1.0		mg/L			1	SM 5310C
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-1B
Lab Sample ID: 480-198720-3
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/06/2022 14:40
Reporting Basis: WET
Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	5.00	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DUP CD-1RA
Lab Sample ID: 480-198720-4
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/06/2022 12:10
Reporting Basis: WET
Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	144	20.0		mg/L			2	310.2
57-12-5	Cyanide, Total	~~ND~~ UJ	0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.26	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	~~ND~~ UJ	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	17.7	5.0		mg/L			1	9038
	Total Dissolved Solids	343	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	1.8	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L		*+	1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	~~ND~~ UJ	1.0		mg/L			1	SM 5310C
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DUP CD-1RA
Lab Sample ID: 480-198720-4
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/06/2022 12:10
Reporting Basis: WET
Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	5.00	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-1A
Lab Sample ID: 480-198813-1
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 10:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	149	J 30.0		mg/L			3	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	0.021	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	ND	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	18.3	J 5.0		mg/L			1	9038
	Total Dissolved Solids	227	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	35.1	J 1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	~~ND~~	UJ 1.0		mg/L			1	SM 5310C
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L		*+	1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-1A
Lab Sample ID: 480-198813-1
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 10:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units		^-	1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-2A
Lab Sample ID: 480-198813-2
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 10:45
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	378 J	50.0		mg/L			5	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	7.8	0.10		mg/L			5	350.1
	Total Kjeldahl Nitrogen	9.4	0.40		mg/L			2	351.2
	Chemical Oxygen Demand	18.9	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	0.95	0.40		mg/L			2	300.0
14797-55-8	Nitrate as N	0.25	0.050		mg/L			1	353.2
14808-79-8	Sulfate	~~ND~~ UJ	5.0		mg/L			1	9038
	Total Dissolved Solids	329	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	19.3 J	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	6.5 J	1.0		mg/L			1	SM 5310C
	TOC Result 1	6.5	1.0		mg/L			1	SM 5310C
	TOC Result 2	6.5	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-2A
Lab Sample ID: 480-198813-2
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 10:45
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units		^-	1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-2B
Lab Sample ID: 480-198813-3
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 11:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	650 J	100		mg/L			10	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	0.53	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	1.4	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	19.9	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	1.5	0.40		mg/L			2	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	~~ND~~ UJ	5.0		mg/L			1	9038
	Total Dissolved Solids	722	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	75.3 J	1.0		mg/L		F1	1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	4.0 J	1.0		mg/L			1	SM 5310C
	TOC Result 1	3.9	1.0		mg/L			1	SM 5310C
	TOC Result 2	4.1	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-2B
Lab Sample ID: 480-198813-3
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 11:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units		^-	1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-3A
Lab Sample ID: 480-198813-4
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 08:30
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	191	J 20.0		mg/L			2	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	0.065	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.78	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L		H H3	1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	0.057	0.050		mg/L			1	353.2
14808-79-8	Sulfate	~~ND~~	UJ 5.0		mg/L			1	9038
	Total Dissolved Solids	195	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	3.9	J 1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	1.5	J 1.0		mg/L			1	SM 5310C
	TOC Result 1	1.5	1.0		mg/L			1	SM 5310C
	TOC Result 2	1.5	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-3A
Lab Sample ID: 480-198813-4
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 08:30
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	15.0	5.00		Color Units		^-	1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-3B
Lab Sample ID: 480-198813-5
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 08:45
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	194	J 30.0		mg/L			3	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	ND	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L		H H3	1	7196A
24959-67-9	Bromide	0.31	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	11.8	J 5.0		mg/L			1	9038
	Total Dissolved Solids	219	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	21.0	J 1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	2.3	2.0		mg/L		b	1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	3.0	J 1.0		mg/L			1	SM 5310C
	TOC Result 1	2.9	1.0		mg/L			1	SM 5310C
	TOC Result 2	3.1	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-3B
Lab Sample ID: 480-198813-5
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 08:45
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units		^-	1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-4A
Lab Sample ID: 480-198813-6
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 09:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	236	J 100		mg/L			10	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.37	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L		H	1	7196A
24959-67-9	Bromide	ND	0.40		mg/L			2	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	~~ND~~	UJ 5.0		mg/L			1	9038
	Total Dissolved Solids	405	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	10.6	J 1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	1.1	J 1.0		mg/L			1	SM 5310C
	TOC Result 1	1.0	1.0		mg/L			1	SM 5310C
	TOC Result 2	1.2	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-4A
Lab Sample ID: 480-198813-6
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 09:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units		^-	1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-5A
Lab Sample ID: 480-198813-7
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 09:30
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	171	J 30.0		mg/L			3	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.45	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L		H	1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	17.7	J 5.0		mg/L			1	9038
	Total Dissolved Solids	162	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	4.5	J 1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	~~ND~~	UJ 1.0		mg/L			1	SM 5310C
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L		*+	1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-5A
Lab Sample ID: 480-198813-7
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 09:30
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units		^-	1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-6A
Lab Sample ID: 480-198813-8
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 11:55
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	200 J	50.0		mg/L			5	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	0.19	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	2.7	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	27.4	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	0.075	0.050		mg/L			1	353.2
14808-79-8	Sulfate	~~ND~~ UJ	5.0		mg/L		F1	1	9038
	Total Dissolved Solids	426	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	78.8 J	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	4.7	2.0		mg/L		b	1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	5.7 J	1.0		mg/L			1	SM 5310C
	TOC Result 1	6.5	1.0		mg/L			1	SM 5310C
	TOC Result 2	4.9	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-6A
Lab Sample ID: 480-198813-8
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 11:55
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units		^-	1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-6B
Lab Sample ID: 480-198813-9
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 12:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result		RL		Units	C	Q	DIL	Method
	Alkalinity, Total	160	J	30.0		mg/L			3	310.2
57-12-5	Cyanide, Total	ND		0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND		0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	ND		0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND		10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND		0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND		0.010		mg/L			1	7196A
24959-67-9	Bromide	ND		0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	0.056		0.050		mg/L			1	353.2
14808-79-8	Sulfate	15.0	J	5.0		mg/L			1	9038
	Total Dissolved Solids	285		10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	77.2	J	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	2.0		2.0		mg/L		b	1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	7.0	J	1.0		mg/L			1	SM 5310C
	TOC Result 1	7.1		1.0		mg/L			1	SM 5310C
	TOC Result 2	7.0		1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-6B
Lab Sample ID: 480-198813-9
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 12:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units		^-	1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-7A
Lab Sample ID: 480-198813-10
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 13:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	445	J 50.0		mg/L			5	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	0.10	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.93	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L			1	7196A
24959-67-9	Bromide	ND	0.40		mg/L			2	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	ND	UJ 5.0		mg/L			1	9038
	Total Dissolved Solids	423	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	19.4	J 1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	8.0	J 1.0		mg/L			1	SM 5310C
	TOC Result 1	9.6	1.0		mg/L			1	SM 5310C
	TOC Result 2	6.4	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-7A
Lab Sample ID: 480-198813-10
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 13:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	25.0	5.00		Color Units		^-	1	SM 2120B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CD-1
Lab Sample ID: 480-198720-1
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/06/2022 13:20
Reporting Basis: WET
Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	9.6	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.45	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	92.8	0.50		mg/L			1	6010C
7440-47-3	Chromium	0.015	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	0.0058	0.0040		mg/L			1	6010C
7440-50-8	Copper	0.043	0.010		mg/L			1	6010C
7439-89-6	Iron	11.2	0.050		mg/L			1	6010C
7439-92-1	Lead	0.010	0.010		mg/L			1	6010C
7439-95-4	Magnesium	15.8	0.20		mg/L			1	6010C
7439-96-5	Manganese	5.5	0.0030		mg/L			1	6010C
7440-02-0	Nickel	0.015	0.010		mg/L			1	6010C
7440-09-7	Potassium	3.2	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	4.3	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	0.012	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.054	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00040		mg/L			1	7470A
	Hardness as calcium carbonate	297	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: CD-1 | Lab Sample ID: 480-198720-1

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG ID.: 198720

Matrix: Water | Date Sampled: 06/06/2022 13:20

Reporting Basis: WET | Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.066	0.0020		mg/L		^2	1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	40.6	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	ND	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	9.5	0.20		mg/L			1	6010C
7439-96-5	Manganese	ND	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	1.6	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	4.0	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CD-1RA
Lab Sample ID: 480-198720-2
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/06/2022 12:10
Reporting Basis: WET
Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	5.8	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.22	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	49.4	0.50		mg/L			1	6010C
7440-47-3	Chromium	0.0074	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	7.2	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	12.6	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.56	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	2.3	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	5.2	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	0.0084	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.015	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00040		mg/L			1	7470A
	Hardness as calcium carbonate	175	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: CD-1RA
Lab Sample ID: 480-198720-2
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/06/2022 12:10
Reporting Basis: WET
Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.15	0.0020		mg/L		^2	1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	41.5	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	ND	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	9.9	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.14	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	0.70	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	4.6	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-1B
Lab Sample ID: 480-198720-3
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/06/2022 14:40
Reporting Basis: WET
Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	1.5	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.24	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	34.4	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	1.2	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	8.2	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.61	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	0.81	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	8.5	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.011	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	120	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DUP CD-1RA
Lab Sample ID: 480-198720-4
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/06/2022 12:10
Reporting Basis: WET
Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	5.3	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.22	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	50.1	0.50		mg/L			1	6010C
7440-47-3	Chromium	0.0068	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	6.6	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	12.6	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.56	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	2.2	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	5.3	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	0.0074	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.014	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	177	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: DUP CD-1RA
Lab Sample ID: 480-198720-4
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/06/2022 12:10
Reporting Basis: WET
Date Received: 06/07/2022 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.15	0.0020		mg/L		^2	1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	43.4	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	ND	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	10.1	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.14	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	0.71	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	4.8	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-1A
Lab Sample ID: 480-198813-1
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 10:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.39	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.068	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.020	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	45.8	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.37	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	10.6	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.038	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	0.96	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	11.1	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	158	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-2A
Lab Sample ID: 480-198813-2
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 10:45
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	5.4	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.50	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.21	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	75.8	0.50		mg/L			1	6010C
7440-47-3	Chromium	0.0080	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	0.0050	0.0040		mg/L			1	6010C
7440-50-8	Copper	0.010	0.010		mg/L			1	6010C
7439-89-6	Iron	9.7	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	17.1	0.20		mg/L			1	6010C
7439-96-5	Manganese	10.6	0.0030		mg/L			1	6010C
7440-02-0	Nickel	0.010	0.010		mg/L			1	6010C
7440-09-7	Potassium	9.8	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	12.7	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	0.0094	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.017	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	260	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-2A
Lab Sample ID: 480-198813-2
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 10:45
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.47	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.23	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	96.8	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	ND	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	19.7	0.20		mg/L			1	6010C
7439-96-5	Manganese	12.2	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	9.9	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	15.3	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-2B
Lab Sample ID: 480-198813-3
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 11:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.31	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	1.0	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.17	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	166	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.51	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	36.1	0.20		mg/L			1	6010C
7439-96-5	Manganese	4.6	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	1.9	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	37.0	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.012	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	563	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-3A
Lab Sample ID: 480-198813-4
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 08:30
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.38	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.37	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	48.0	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.39	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	10.0	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.31	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	1.3	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	5.6	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	161	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-3B
Lab Sample ID: 480-198813-5
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 08:45
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.19	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.030	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	43.4	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.065	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	13.0	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.028	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	0.96	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	7.1	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	162	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-4A
Lab Sample ID: 480-198813-6
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 09:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.88	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.054	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	106	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.072	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	23.3	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.48	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	1.2	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	13.0	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	359	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-5A
Lab Sample ID: 480-198813-7
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 09:30
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.41	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.55	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	37.6	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.27	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	10.8	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.083	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	0.87	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	8.1	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	138	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-6A
Lab Sample ID: 480-198813-8
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 11:55
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	45.3	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	0.062	0.015		mg/L			1	6010C
7440-39-3	Barium	1.3	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	0.0023	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.032	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	72.1	0.50		mg/L			1	6010C
7440-47-3	Chromium	0.068	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	0.074	0.0040		mg/L			1	6010C
7440-50-8	Copper	0.082	0.010		mg/L			1	6010C
7439-89-6	Iron	80.3	0.050		mg/L			1	6010C
7439-92-1	Lead	0.030	0.010		mg/L			1	6010C
7439-95-4	Magnesium	22.4	0.20		mg/L			1	6010C
7439-96-5	Manganese	6.9	0.0030		mg/L			1	6010C
7440-02-0	Nickel	0.092	0.010		mg/L			1	6010C
7440-09-7	Potassium	9.4	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	28.7	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	0.060	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.15	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00040		mg/L			1	7470A
	Hardness as calcium carbonate	272	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-6A
Lab Sample ID: 480-198813-8
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 11:55
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.20	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.26	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	72.1	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.18	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	10.5	0.20		mg/L			1	6010C
7439-96-5	Manganese	1.0	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	2.4	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	29.9	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-6B
Lab Sample ID: 480-198813-9
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 12:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.27	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.30	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	49.5	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.24	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	11.5	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.035	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	1.0	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	35.5	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.012	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	171	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-7A
Lab Sample ID: 480-198813-10
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 13:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	3.9	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.24	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.16	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	92.5	0.50		mg/L			1	6010C
7440-47-3	Chromium	0.0047	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	4.9	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	18.8	0.20		mg/L			1	6010C
7439-96-5	Manganese	4.7	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	2.8	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	29.5	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	0.0055	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.018	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	309	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-7A
Lab Sample ID: 480-198813-10
Lab Name: Eurofins Buffalo
Job No.: 480-198720-1
SDG ID.: 198720
Matrix: Water
Date Sampled: 06/08/2022 13:15
Reporting Basis: WET
Date Received: 06/09/2022 09:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.21	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.17	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	99.1	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	ND	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	19.0	0.20		mg/L			1	6010C
7439-96-5	Manganese	4.4	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	2.0	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	32.0	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-66-6	Zinc	0.010	0.010		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: CD-1 | Lab Sample ID: 480-198720-1

Matrix: Water | Lab File ID: D0818.D

Analysis Method: 8260C | Date Collected: 06/06/2022 13:20

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2022 02:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND	*+	10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: CD-1 | Lab Sample ID: 480-198720-1

Matrix: Water | Lab File ID: D0818.D

Analysis Method: 8260C | Date Collected: 06/06/2022 13:20

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2022 02:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
2037-26-5	Toluene-d8 (Surr)	96		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: CD-1RA | Lab Sample ID: 480-198720-2

Matrix: Water | Lab File ID: D0819.D

Analysis Method: 8260C | Date Collected: 06/06/2022 12:10

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2022 02:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND	*+	10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: CD-1RA | Lab Sample ID: 480-198720-2

Matrix: Water | Lab File ID: D0819.D

Analysis Method: 8260C | Date Collected: 06/06/2022 12:10

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2022 02:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
2037-26-5	Toluene-d8 (Surr)	95		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-1B | Lab Sample ID: 480-198720-3

Matrix: Water | Lab File ID: D0820.D

Analysis Method: 8260C | Date Collected: 06/06/2022 14:40

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2022 02:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND	*+	10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-1B | Lab Sample ID: 480-198720-3

Matrix: Water | Lab File ID: D0820.D

Analysis Method: 8260C | Date Collected: 06/06/2022 14:40

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2022 02:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
2037-26-5	Toluene-d8 (Surr)	95		80-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: DUP CD-1RA | Lab Sample ID: 480-198720-4

Matrix: Water | Lab File ID: D0821.D

Analysis Method: 8260C | Date Collected: 06/06/2022 12:10

Sample wt/vol: 5 (mL) | Date Analyzed: 06/12/2022 03:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18 (mm)

Purge Volume: 5.0 (mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND	*+	10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: DUP CD-1RA | Lab Sample ID: 480-198720-4

Matrix: Water | Lab File ID: D0821.D

Analysis Method: 8260C | Date Collected: 06/06/2022 12:10

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2022 03:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
2037-26-5	Toluene-d8 (Surr)	97		80-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: TRIP BLANK 1 | Lab Sample ID: 480-198720-5

Matrix: Water | Lab File ID: D0822.D

Analysis Method: 8260C | Date Collected: 06/06/2022 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2022 03:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND	*+	10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: TRIP BLANK 1 | Lab Sample ID: 480-198720-5

Matrix: Water | Lab File ID: D0822.D

Analysis Method: 8260C | Date Collected: 06/06/2022 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2022 03:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 629695 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
2037-26-5	Toluene-d8 (Surr)	94		80-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-1A | Lab Sample ID: 480-198813-1

Matrix: Water | Lab File ID: N5627.D

Analysis Method: 8260C | Date Collected: 06/08/2022 10:15

Sample wt/vol: 5(mL) | Date Analyzed: 06/15/2022 22:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-1A | Lab Sample ID: 480-198813-1

Matrix: Water | Lab File ID: N5627.D

Analysis Method: 8260C | Date Collected: 06/08/2022 10:15

Sample wt/vol: 5(mL) | Date Analyzed: 06/15/2022 22:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		1.0	
75-01-4	Vinyl chloride	ND		5.0	
1330-20-7	Xylenes, Total	ND		1.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		2.0	
		ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	82		77-120
2037-26-5	Toluene-d8 (Surr)	91		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-2A | Lab Sample ID: 480-198813-2

Matrix: Water | Lab File ID: N5628.D

Analysis Method: 8260C | Date Collected: 06/08/2022 10:45

Sample wt/vol: 5(mL) | Date Analyzed: 06/15/2022 22:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	1.1		1.0	
591-78-6	2-Hexanone	ND		10	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		5.0	
107-13-1	Acrylonitrile	ND		10	
71-43-2	Benzene	ND		5.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	1.7		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-2A | Lab Sample ID: 480-198813-2

Matrix: Water | Lab File ID: N5628.D

Analysis Method: 8260C | Date Collected: 06/08/2022 10:45

Sample wt/vol: 5(mL) | Date Analyzed: 06/15/2022 22:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		77-120
2037-26-5	Toluene-d8 (Surr)	92		80-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-2B | Lab Sample ID: 480-198813-3

Matrix: Water | Lab File ID: N5629.D

Analysis Method: 8260C | Date Collected: 06/08/2022 11:15

Sample wt/vol: 5(mL) | Date Analyzed: 06/15/2022 22:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	3.9		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	40		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-2B Lab Sample ID: 480-198813-3

Matrix: Water Lab File ID: N5629.D

Analysis Method: 8260C Date Collected: 06/08/2022 11:15

Sample wt/vol: 5(mL) Date Analyzed: 06/15/2022 22:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	19		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		77-120
2037-26-5	Toluene-d8 (Surr)	93		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-3A | Lab Sample ID: 480-198813-4

Matrix: Water | Lab File ID: N5630.D

Analysis Method: 8260C | Date Collected: 06/08/2022 08:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/15/2022 23:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-3A | Lab Sample ID: 480-198813-4

Matrix: Water | Lab File ID: N5630.D

Analysis Method: 8260C | Date Collected: 06/08/2022 08:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/15/2022 23:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		77-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-3B | Lab Sample ID: 480-198813-5

Matrix: Water | Lab File ID: N5631.D

Analysis Method: 8260C | Date Collected: 06/08/2022 08:45

Sample wt/vol: 5(mL) | Date Analyzed: 06/15/2022 23:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-3B | Lab Sample ID: 480-198813-5

Matrix: Water | Lab File ID: N5631.D

Analysis Method: 8260C | Date Collected: 06/08/2022 08:45

Sample wt/vol: 5(mL) | Date Analyzed: 06/15/2022 23:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		77-120
2037-26-5	Toluene-d8 (Surr)	92		80-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-4A | Lab Sample ID: 480-198813-6

Matrix: Water | Lab File ID: N5632.D

Analysis Method: 8260C | Date Collected: 06/08/2022 09:15

Sample wt/vol: 5(mL) | Date Analyzed: 06/16/2022 00:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-4A | Lab Sample ID: 480-198813-6

Matrix: Water | Lab File ID: N5632.D

Analysis Method: 8260C | Date Collected: 06/08/2022 09:15

Sample wt/vol: 5(mL) | Date Analyzed: 06/16/2022 00:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		77-120
2037-26-5	Toluene-d8 (Surr)	91		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-5A | Lab Sample ID: 480-198813-7

Matrix: Water | Lab File ID: N5633.D

Analysis Method: 8260C | Date Collected: 06/08/2022 09:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/16/2022 00:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-5A | Lab Sample ID: 480-198813-7

Matrix: Water | Lab File ID: N5633.D

Analysis Method: 8260C | Date Collected: 06/08/2022 09:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/16/2022 00:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		77-120
2037-26-5	Toluene-d8 (Surr)	91		80-120
460-00-4	4-Bromofluorobenzene (Surr)	112		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-6A | Lab Sample ID: 480-198813-8

Matrix: Water | Lab File ID: N5634.D

Analysis Method: 8260C | Date Collected: 06/08/2022 11:55

Sample wt/vol: 5(mL) | Date Analyzed: 06/16/2022 00:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-6A | Lab Sample ID: 480-198813-8

Matrix: Water | Lab File ID: N5634.D

Analysis Method: 8260C | Date Collected: 06/08/2022 11:55

Sample wt/vol: 5(mL) | Date Analyzed: 06/16/2022 00:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		77-120
2037-26-5	Toluene-d8 (Surr)	89		80-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-6B | Lab Sample ID: 480-198813-9

Matrix: Water | Lab File ID: N5635.D

Analysis Method: 8260C | Date Collected: 06/08/2022 12:15

Sample wt/vol: 5(mL) | Date Analyzed: 06/16/2022 01:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-6B | Lab Sample ID: 480-198813-9

Matrix: Water | Lab File ID: N5635.D

Analysis Method: 8260C | Date Collected: 06/08/2022 12:15

Sample wt/vol: 5(mL) | Date Analyzed: 06/16/2022 01:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		77-120
2037-26-5	Toluene-d8 (Surr)	91		80-120
460-00-4	4-Bromofluorobenzene (Surr)	107		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-7A | Lab Sample ID: 480-198813-10

Matrix: Water | Lab File ID: N5636.D

Analysis Method: 8260C | Date Collected: 06/08/2022 13:15

Sample wt/vol: 5(mL) | Date Analyzed: 06/16/2022 01:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	1.1		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	1.2		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: MW-7A | Lab Sample ID: 480-198813-10

Matrix: Water | Lab File ID: N5636.D

Analysis Method: 8260C | Date Collected: 06/08/2022 13:15

Sample wt/vol: 5(mL) | Date Analyzed: 06/16/2022 01:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		77-120
2037-26-5	Toluene-d8 (Surr)	91		80-120
460-00-4	4-Bromofluorobenzene (Surr)	106		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-198720-1

SDG No.: 198720

Client Sample ID: TRIP BLANK 1 | Lab Sample ID: 480-198813-11

Matrix: Water | Lab File ID: N5637.D

Analysis Method: 8260C | Date Collected: 06/08/2022 08:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/16/2022 02:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

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SDG No.: 198720

Client Sample ID: TRIP BLANK 1 | Lab Sample ID: 480-198813-11

Matrix: Water | Lab File ID: N5637.D

Analysis Method: 8260C | Date Collected: 06/08/2022 08:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/16/2022 02:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 630178 | Units: ug/L

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108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
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CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		77-120
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460-00-4	4-Bromofluorobenzene (Surr)	107		73-120

Appendix C

Landfill Inspection

Towslee Landfill, Cortland County

Towslee Landfill Routine Inspection

Inspection Date 8/3/22 Quarter 3 Inspected by K. McGrath

Procedures for correction of any deficiencies, if needed, are described in the Towslee Landfill Revised 2006 Monitoring Plan.

Inspection Notes - Areas examined in detail (walked) are indicated on the attached map; inspection photos follow. Most of the landfill could be observed from the areas walked. Areas inspected in detail will vary from inspection to inspection.

Site Security - Access controlled? Perimeter fencing?

Towslee Landfill is part of a much larger County property. This property is not fully enclosed with a perimeter fence. However, the only access by road is access restricted with a lockable gate that is locked except during hours of operation. Entrance to the landfill is visually monitored by staff at the weight building.

Monitoring Wells - Wells identified? Wells locked? Surface sealed?

Wells were not examined during the inspection because they are regularly observed during quarterly sampling. All wells have caps. They are not usually locked. All appear to be surface sealed with no apparent infiltration or drainage adjacent to the well casings.

Cap System - Cracking in cover soils?

No soil cracking was observed in either area walked.

Settlement in cover soils?

No settlement was observed anywhere in areas walked and observed in detail.

Erosion or loss of vegetation in the cover soils?

Small areas of bare soil were observed in each area typically associated with groundhog holes, sharp turning radius of mowers, or on steeper slopes along the edge of the cap and associated with mowing. Areas were small and shallow. In only one location was the rolled erosion product used during vegetation establishment observed. Protective cover fabric was never observed except at the landfill margin.

Mowed biannually?

It is not known whether the landfill is mowed biannually; however, the entire landfill was mowed and no woody vegetation was observed anywhere on the landfill.

<u>Drainage System</u> - Is there any erosion of the ground surface in the area of the toe of slope where water discharges from the soil drainage layer?

Very small patches of bare soil were observed on the landfill immediately above the edge. No erosion was observed below the landfill edge. All drainage areas observed were thickly vegetated with grass and brush.

Are all perimeter swales, downchutes and culverts performing properly?

The southern downchute and all swales and culverts appear to be functioning properly. No sheet erosion or rilling was observed during the inspection.

<u>Gas Venting System</u> - Is there any physical damage or plugging of the vents?

No vents observed were plugged and all vents observed were in good condition. The outlet rims of some vents were slightly damaged with edges broken off. This should not affect function. Woodchuck damage was observed adjacent to several gas vents. One T-structure on the extreme north end was disengaged from its base, tipped over and non-functional.

Has there been any settlement in the cap adjacent to the vents?

No settlement in the cap was observed adjacent to the vents.

<u>Vectors</u> - Are there any vectors present on the site?

Woodchuck damage was observed adjacent to several gas vents. They did not appear to be affecting gas flow or function of the venting system generally.

<u>Access Roads</u> - Are there any signs of erosion or excessive wear?

Access roads were in general in good condition and fully functional. In some areas significant potholes exist and/or drainage is poor. In many areas the road is on bedrock or soils are heavily compacted such that infiltration is poor.

<u>Management Recommendations</u>

None at this time.

Towslee Landfill Inspection 2022 Q3

Areas examined in detail during this inspection

Towslee Landfill Inspection Photos 2022 Q3 (Page 1/3)

Clockwise from top left: 1) - 3) Towslee Landfill views along the north side of the landfill & 4) & 5) Towslee Landfill views along the south side of the landfill.

Towslee Landfill Inspection Photos 2022 Q3 (Page 2/3)

Clockwise from top left: 1) & 2) Towslee landfill edge along north side of landfill, 3) drainage along south face of landfill & 4) landfill edge along south side of landfill.

Towslee Landfill Inspection Photos 2022 Q3 (Page 3/3)

Clockwise from top left: 1) Towslee Landfill T-structure disengaged from base and tipped over, along north side of landfill, 2) & 3) examples of small erosion patches along south side of landfill.